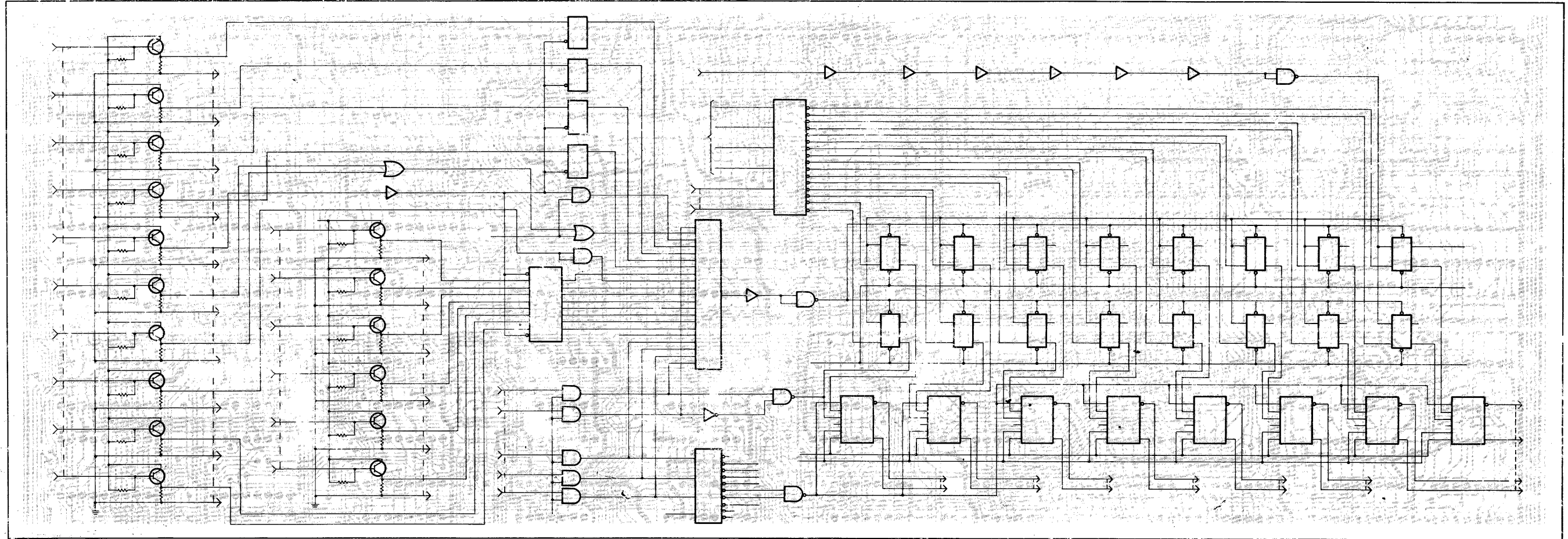




Model 990 Computer Family Maintenance Drawings



Computer Chassis and Enclosures Volume I

Part No. 945421-97J1 *A
15 June 1980

TEXAS INSTRUMENTS

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MANUAL REVISION HISTORY

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Preface

The Model 990 Computer Family Maintenance Drawings provide assembly drawings, list of materials, logic diagrams, and electronic schematic diagrams for equipment currently available in the 990 Family of Computers. This information is designed for use as a reference by customer representatives, factory-service personnel, factory-customer support engineers, and other maintenance personnel involved in diagnosis and repair of 990 computer equipment.

The Model 990 Computer Family Maintenance Drawings consists of five volumes. The five volumes are:

Volume	Part Number 0945421	Volume Title
I	-9701	Computer Chassis and Enclosures
II	-9702	Processors and Memories
III	-9703	CRU Expansion and Peripherals
IV	-9704	TILINE Expansion and Peripherals
V	-9705	AMPL Systems

The contents of Volume I are summarized in the following paragraph:

VOLUME I, COMPUTER CHASSIS AND ENCLOSURES, PART NUMBER 0945421-9701. Volume I contains the following information and drawings:

- Preface — Description of Volume I
- Table of Contents — For Volume I Only
- Section 1 — Integrated Circuit Logic Diagrams
- Section 2 — OEM Chassis Equipment Drawing
- Section 3 — 6-Slot Chassis Drawing
- Section 4 — 13-Slot Chassis Drawing
- Section 5 — 17-Slot Chassis Drawing
- Section 6 — Front Panels Drawing
- Section 7 — Cabinets Drawing
- Section 8 — Power System Drawing

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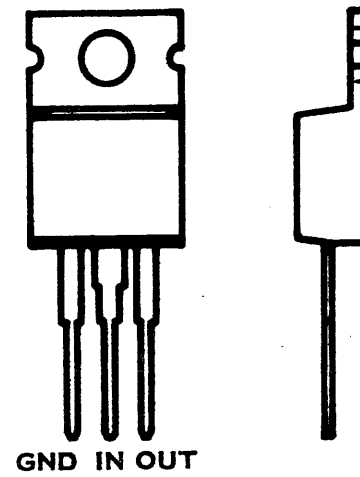
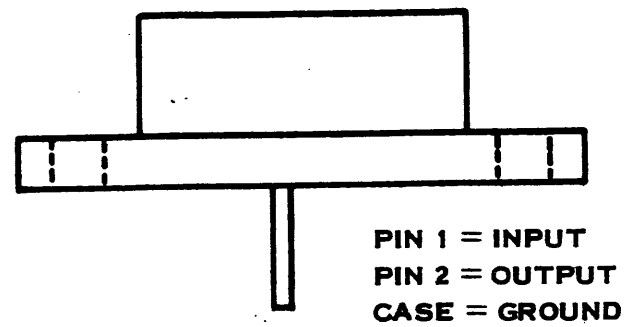
Note:

AD — denotes Assembly Drawing
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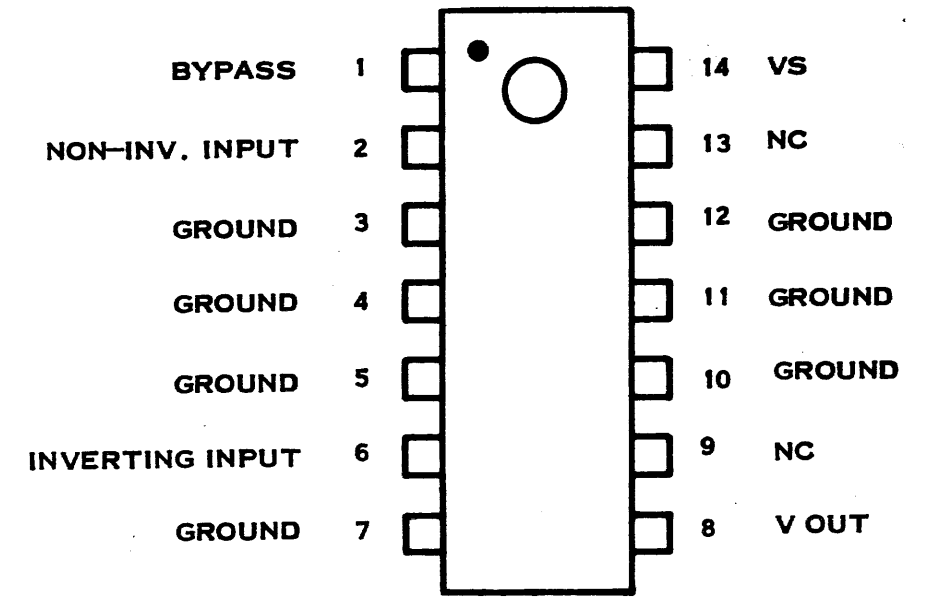
Note:

AD denotes Assembly Drawing
LM denotes List of Materials



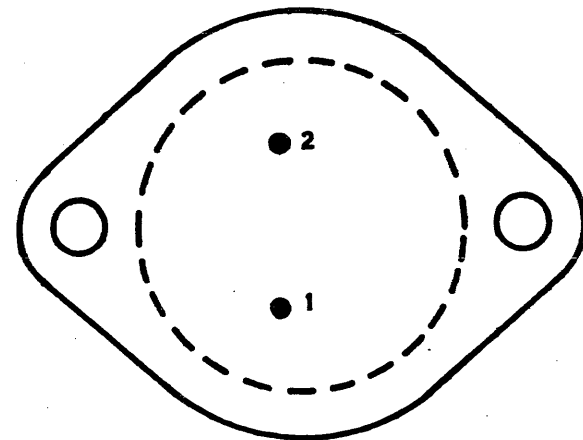
LM320T

THREE TERMINAL VOLTAGE REGULATOR



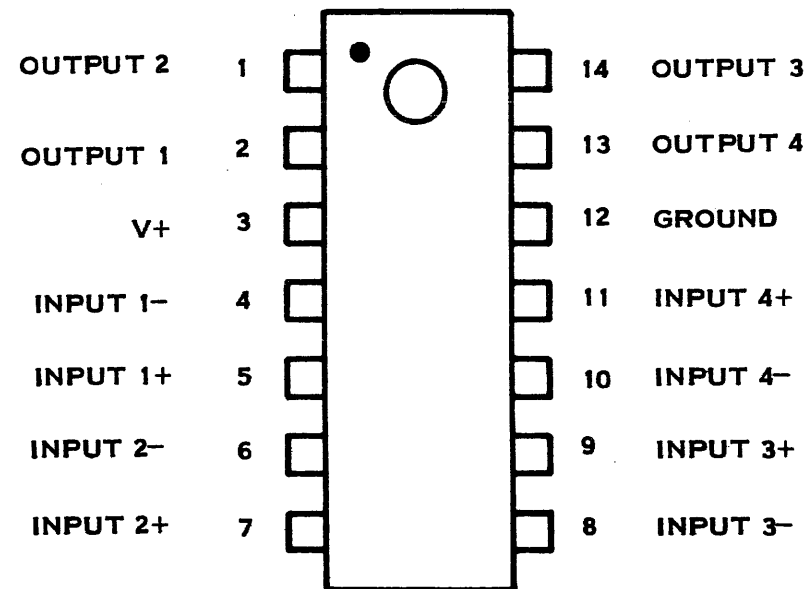
LM380 N

AUDIO POWER AMPLIFIER



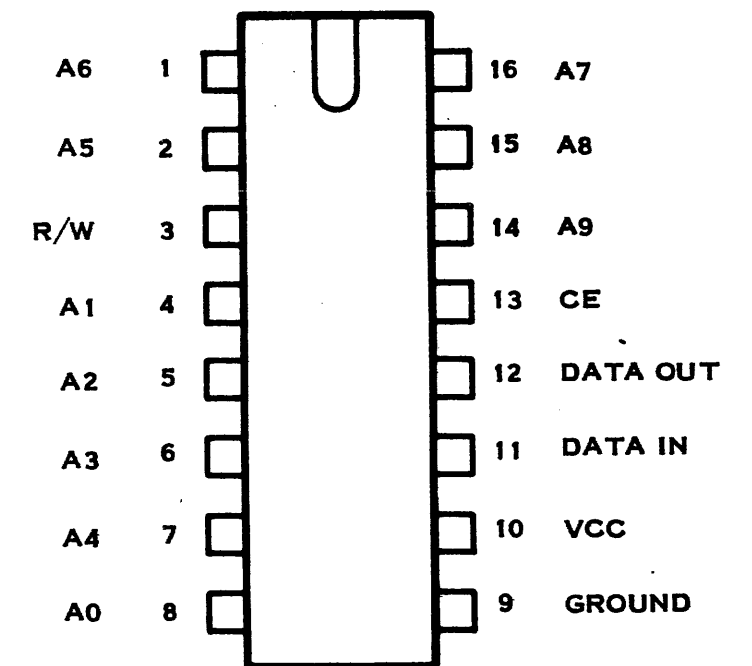
LM320K

VOLTAGE REGULATOR



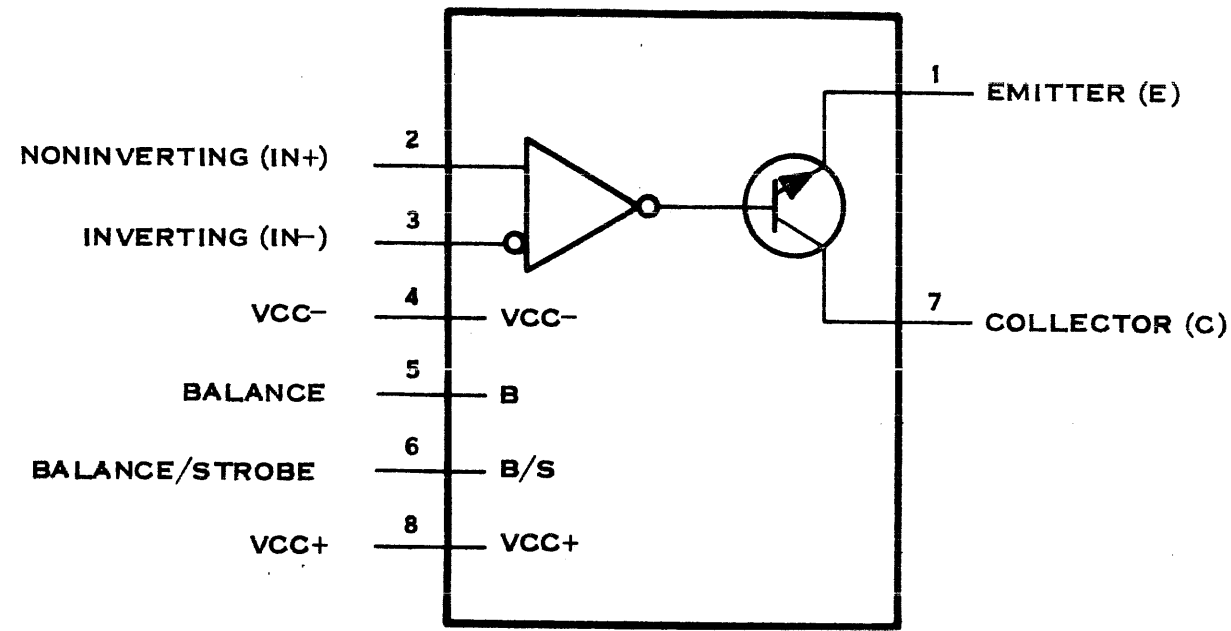
LM339 N

VOLTAGE COMPARATOR/BUFFER



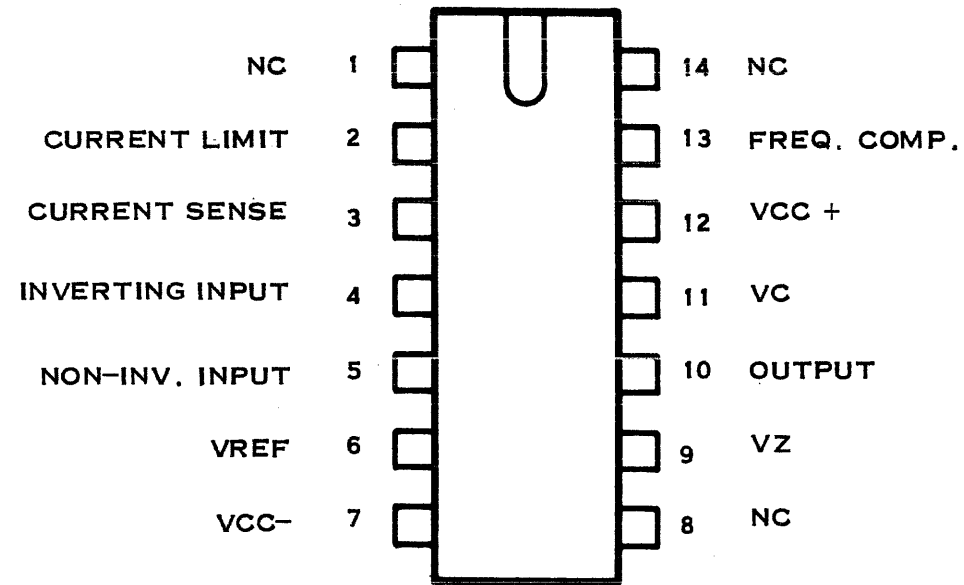
MF 2102

1024-BIT RAM



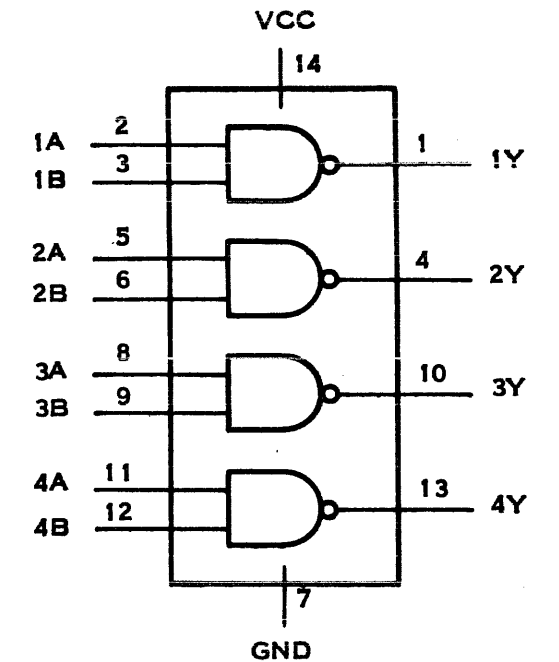
SN72311P

DIFFERENTIAL COMPARATOR WITH STROBE



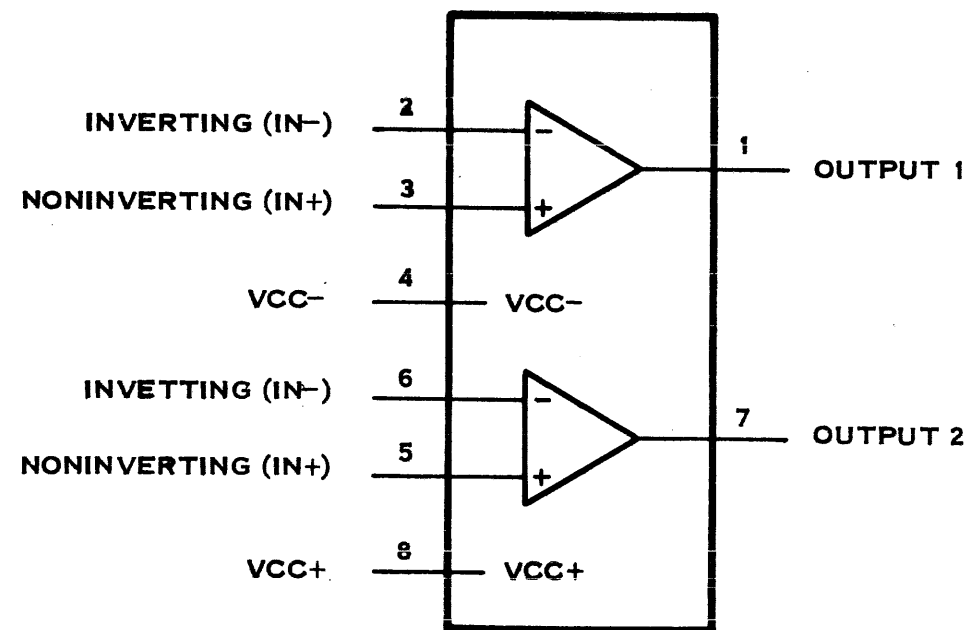
SN72723

PRECISION VOLTAGE REGULATOR



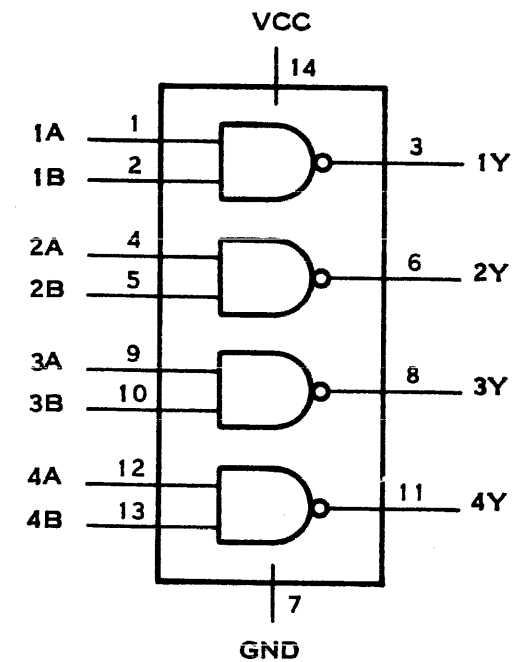
SN7401, SN74LS01

QUADRUPLE 2-INPUT POSITIVE-NAND GATES WITH OPEN-COLLECTOR OUTPUTS



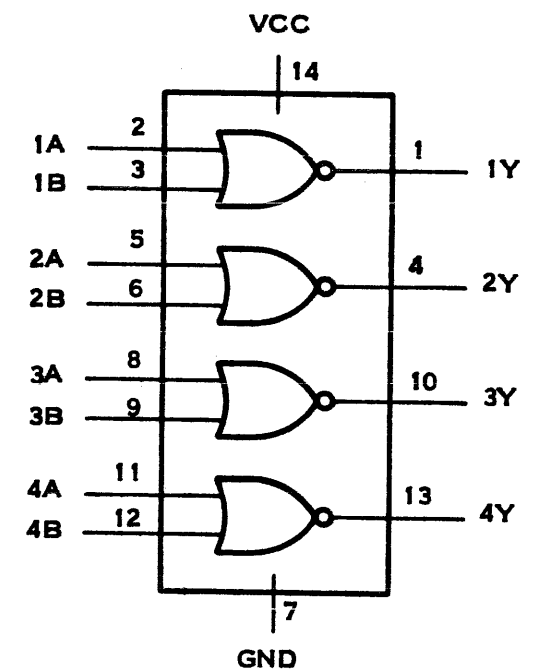
SN72558P

OPERATIONAL AMPLIFIERS



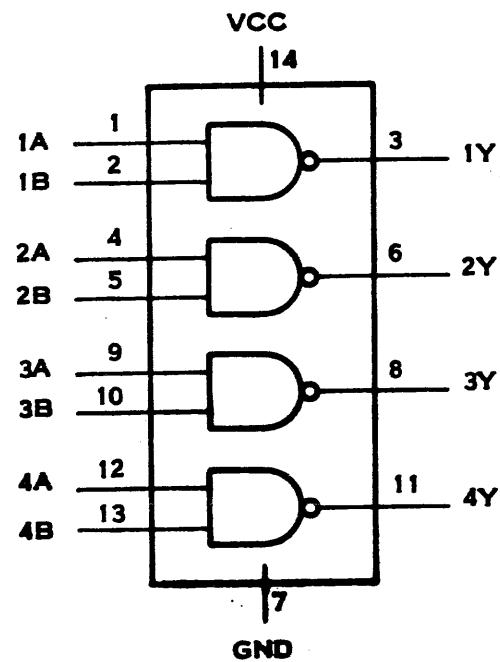
SN7400, SN74H00, SN74L00, SN74LS00, SN74S00

QUADRUPLE 2-INPUT POSITIVE-NAND GATES



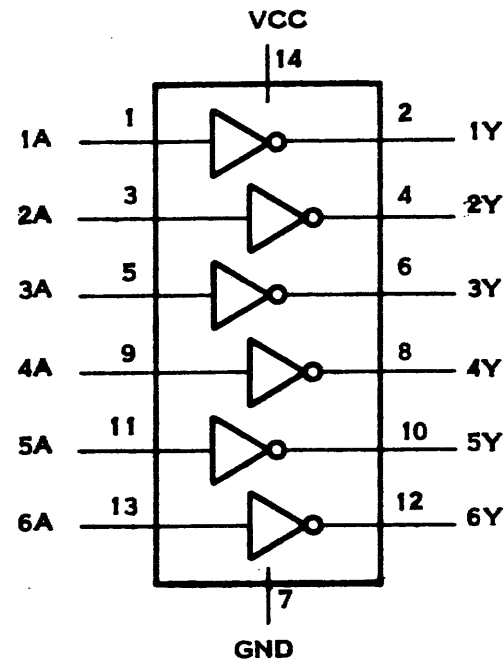
SN7402, SN74L02, SN74LS02, SN74S02

QUADRUPLE 2-INPUT POSITIVE-NOR GATES



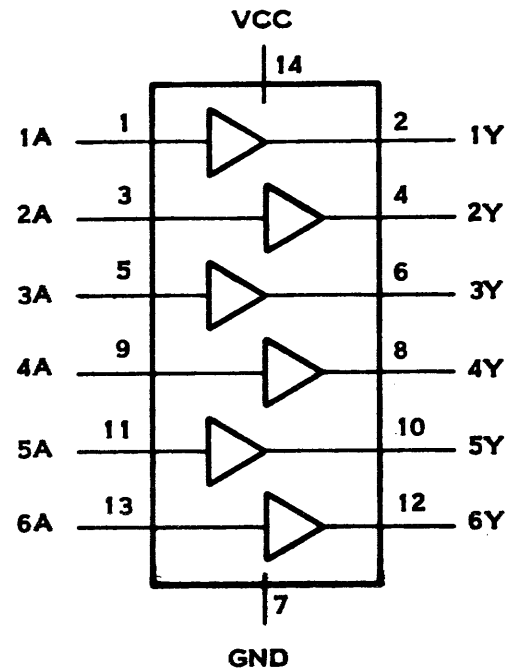
SN7403, SN74L03, SN74LS03,
SN74S03

QUADRUPLE 2-INPUT POSITIVE-NAND
GATES WITH OPEN-COLLECTOR
OUTPUTS



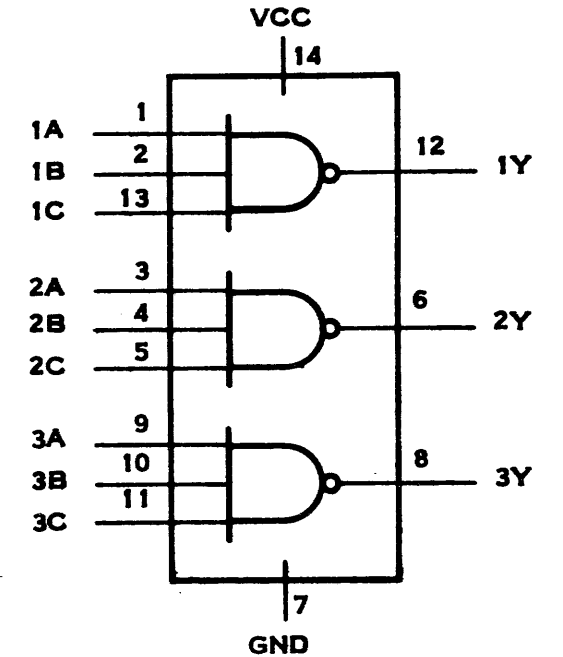
SN7405, SN74H05, SN74LS05,
SN74S05

HEX INVERTERS WITH
OPEN-COLLECTOR OUTPUTS



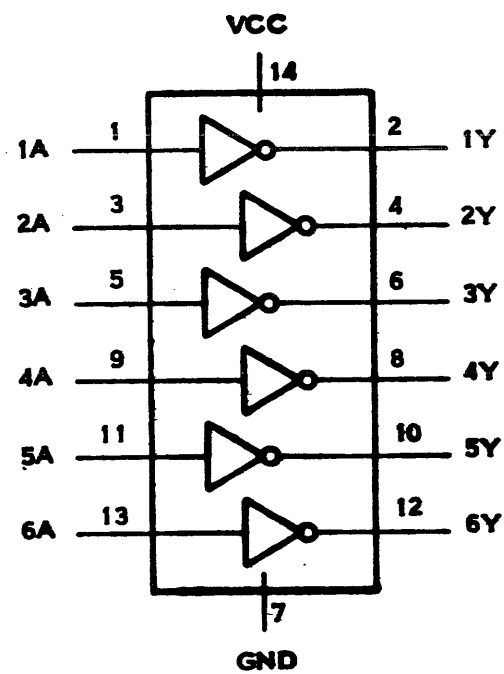
SN7407

HEX BUFFERS/DRIVERS WITH
OPEN-COLLECTOR
HIGH-VOLTAGE OUTPUTS

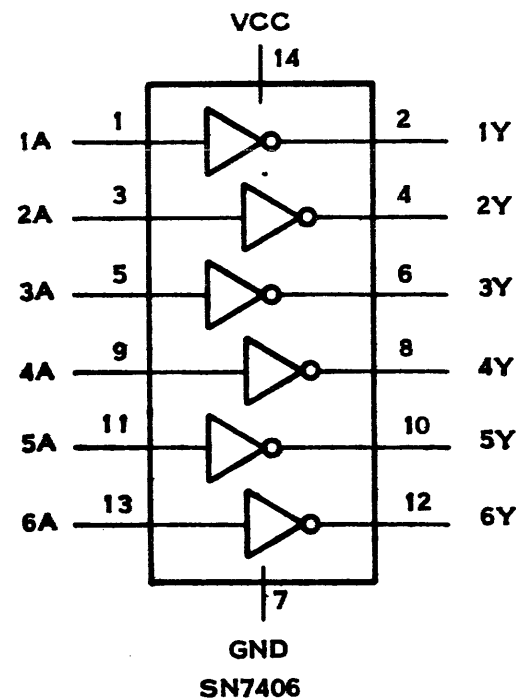


SN7410, SN74H10, SN74L10,
SN74LS10, SN74S10

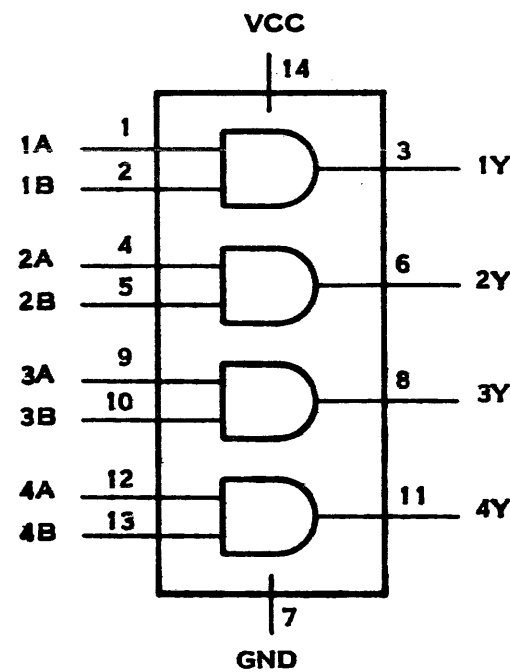
TRIPLE 3-INPUT
POSITIVE-NAND GATES



SN7404, SN74H04, SN74L04,
SN74LS04, SN74S04
HEX INVERTERS

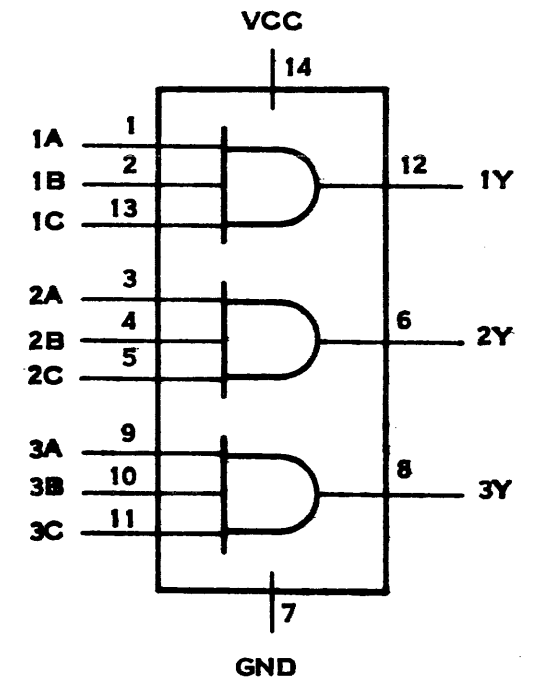


SN7406
HEX INVERTER BUFFERS/DRIVERS
WITH OPEN-COLLECTOR
HIGH-VOLTAGE OUTPUTS



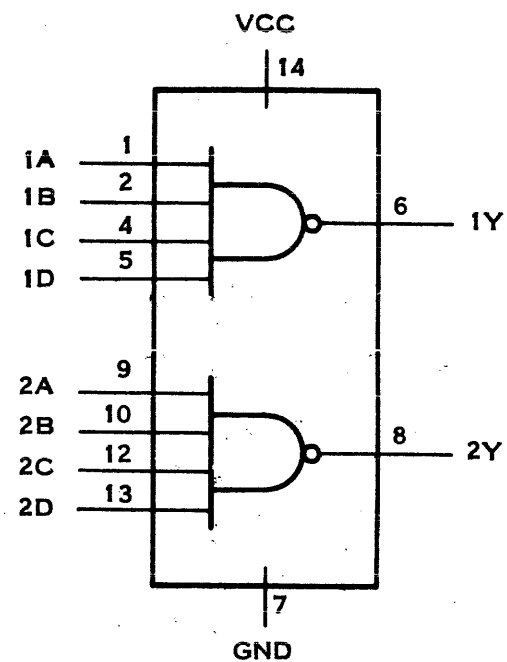
SN7408, SN74LS08, SN74S08

QUADRUPLE 2-INPUT
POSITIVE-AND GATES

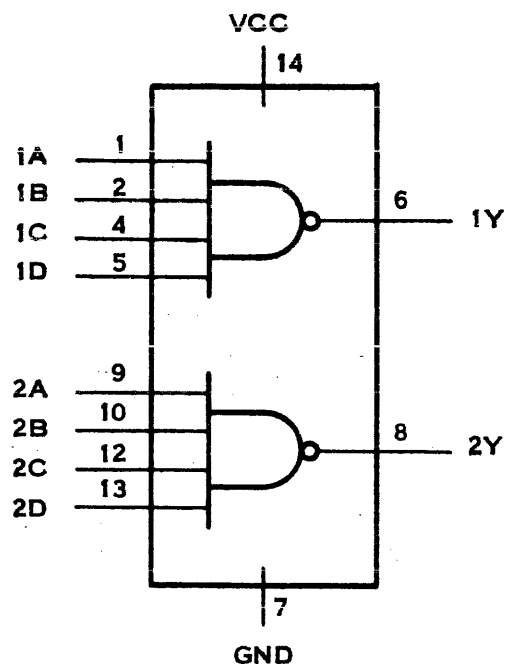


SN74H11, SN74LS11, SN74S11

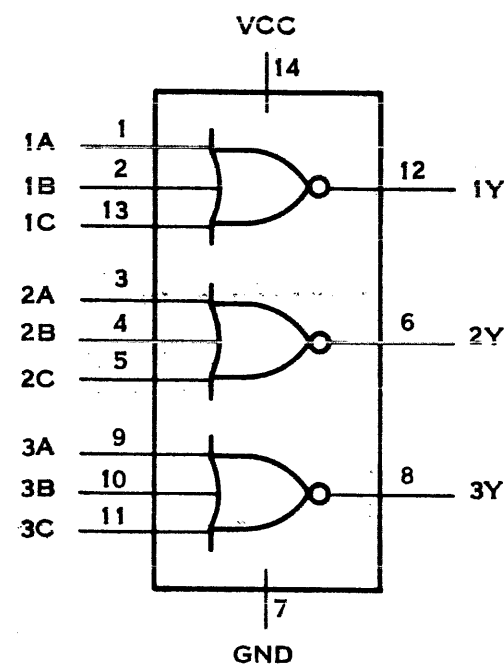
TRIPLE 3-INPUT
POSITIVE-AND GATES



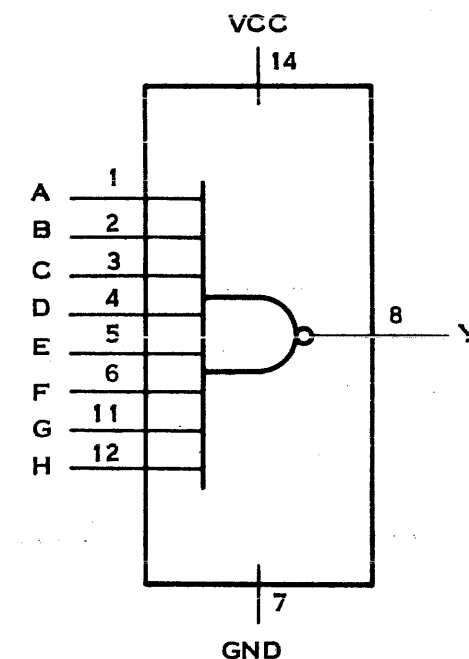
SN7413, SN74LS13
DUAL 4-INPUT POSITIVE-NAND GATES WITH SCHMITT TRIGGERS



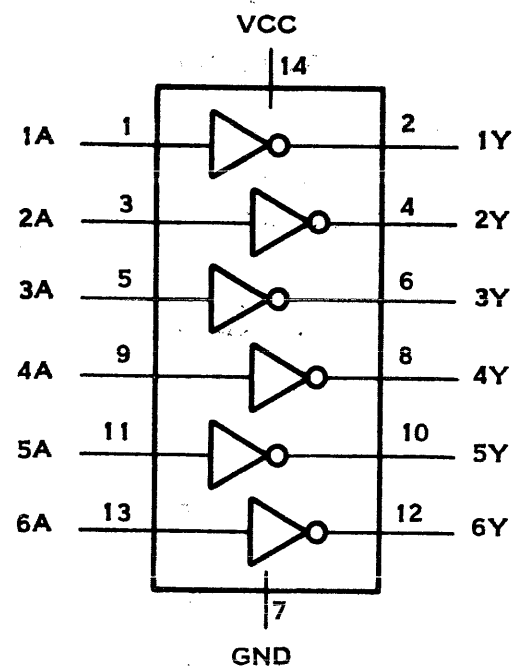
SN7420, SN74H20, SN74L20, SN74LS20, SN74S20
DUAL 4-INPUT POSITIVE-NAND GATES



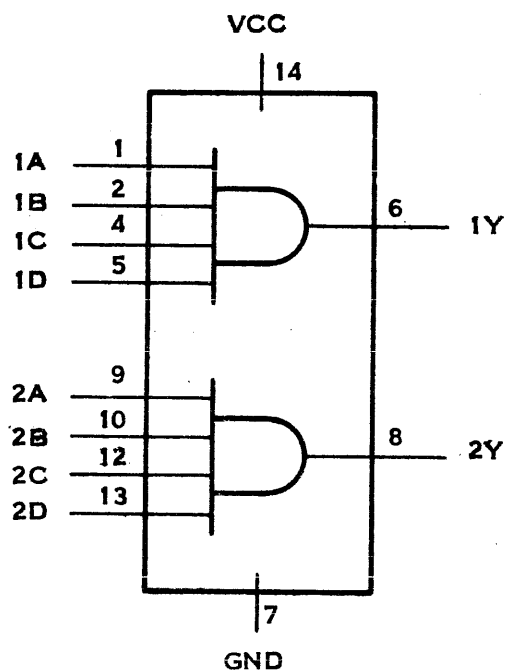
SN7427, SN74LS27
TRIPLE 3-INPUT POSITIVE-NOR GATES



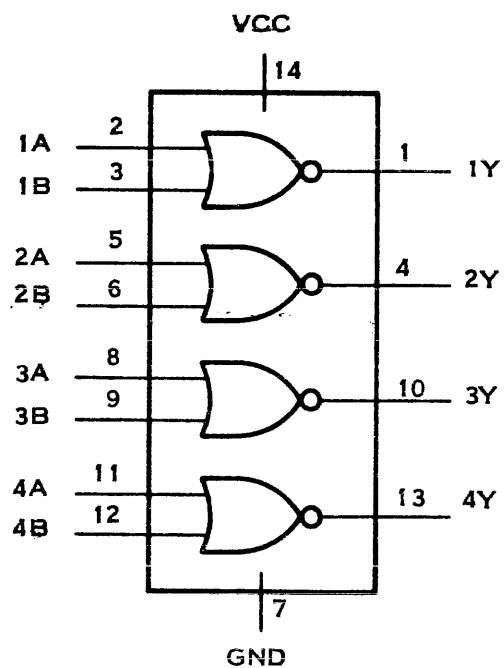
SN7430, SN74H30, SN74L30, SN74LS30, SN74S30
8-INPUT POSITIVE-NAND GATE



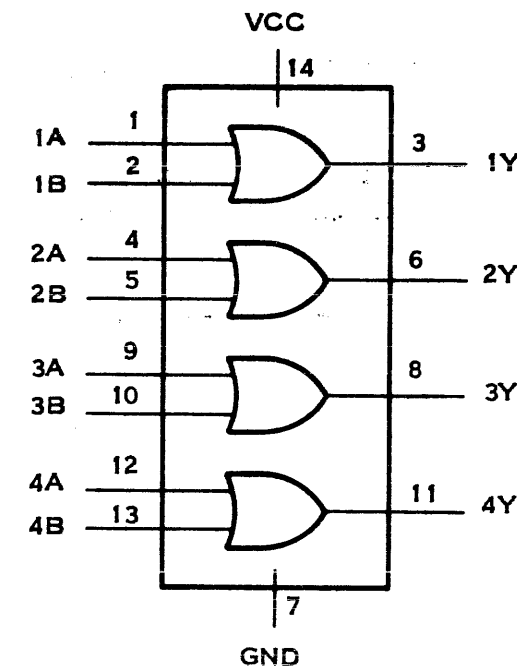
SN7414, SN74LS14
HEX INVERTERS WITH SCHMITT-TRIGGERS



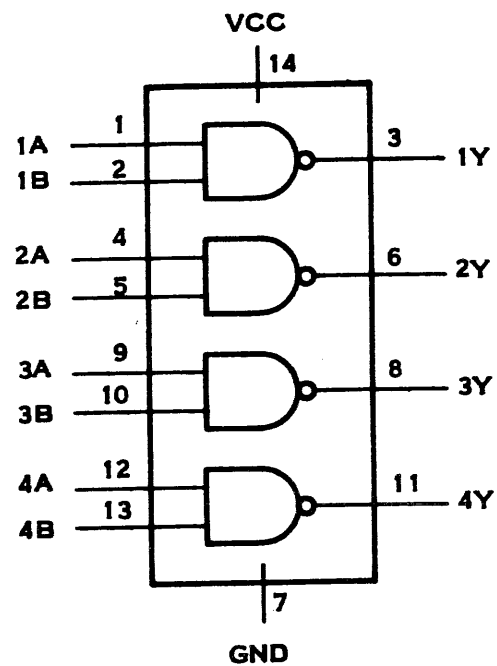
SN74H21, SN74LS21
DUAL 4-INPUT POSITIVE-AND GATES



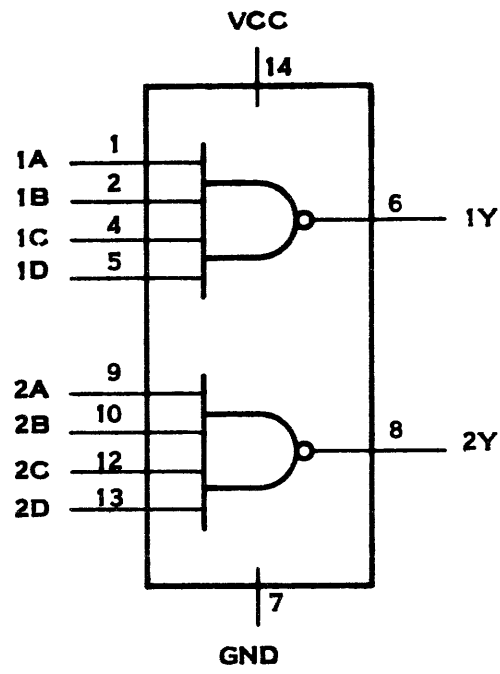
SN7428, SN74LS28
QUADRUPLE 2-INPUT POSITIVE-NOR BUFFERS



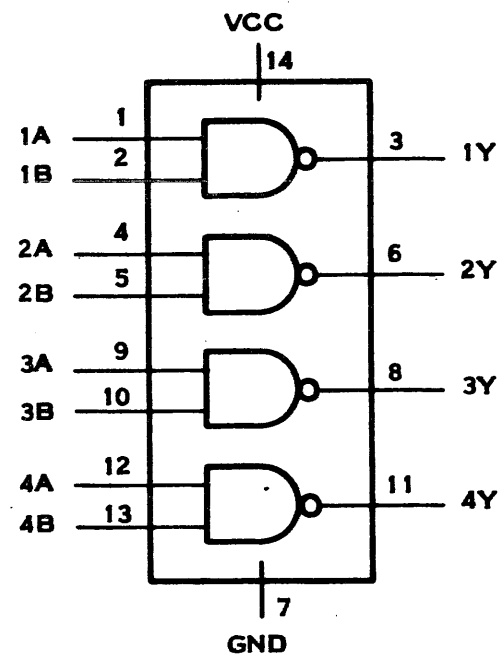
SN7432, SN74LS32, SN74S32
QUADRUPLE 2-INPUT POSITIVE-OR GATES



SN7437, SN74LS37, SN74S37
 QUADRUPLE 2-INPUT
 POSITIVE-NAND GATES



SN7440, SN74H40, SN74LS40,
 SN74S40
 DUAL 4-INPUT
 POSITIVE-NAND BUFFERS

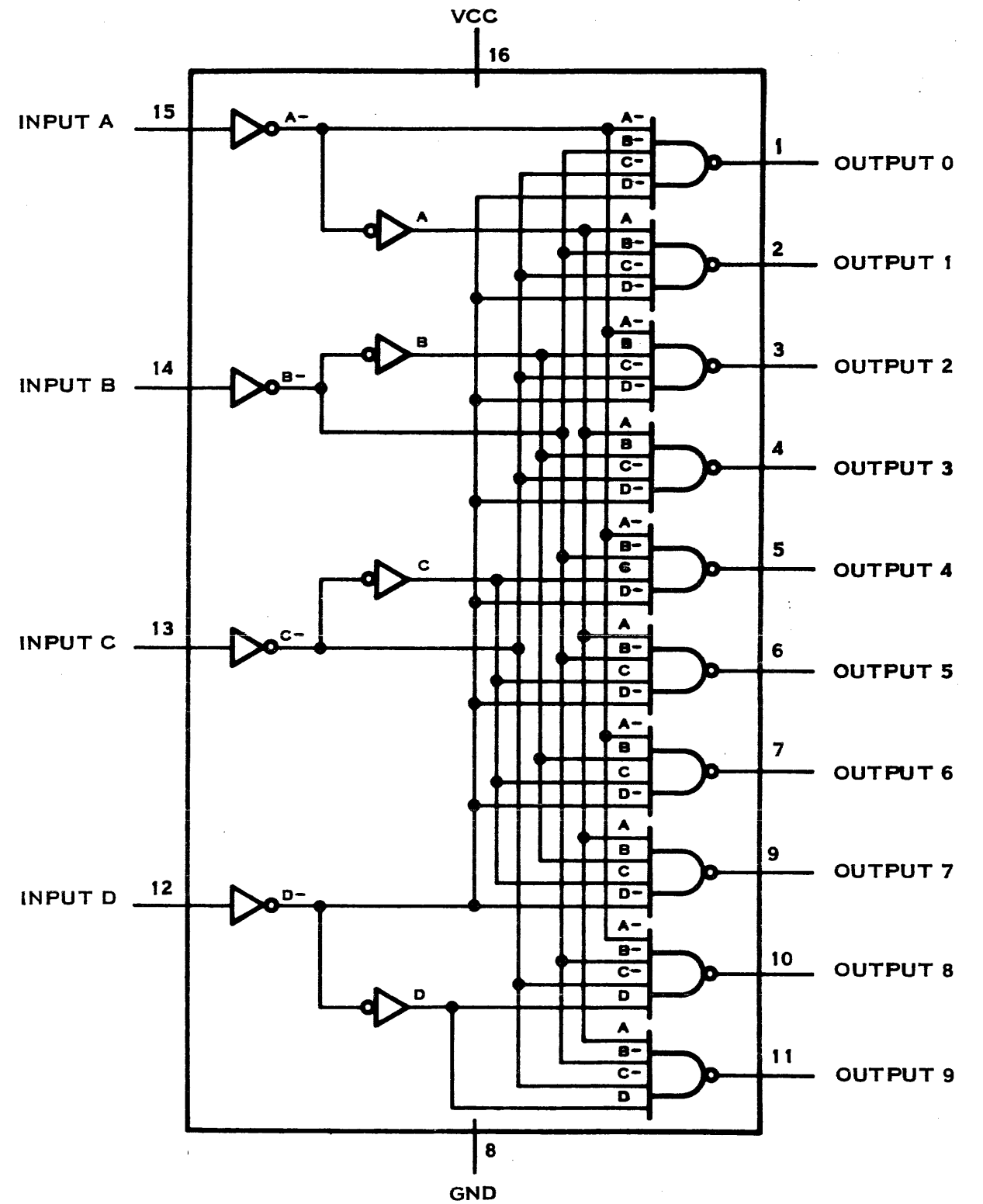


SN7438, SN74LS38, SN74S38
 QUADRUPLE 2-INPUT
 POSITIVE-NAND BUFFERS WITH
 OPEN-COLLECTOR OUTPUTS

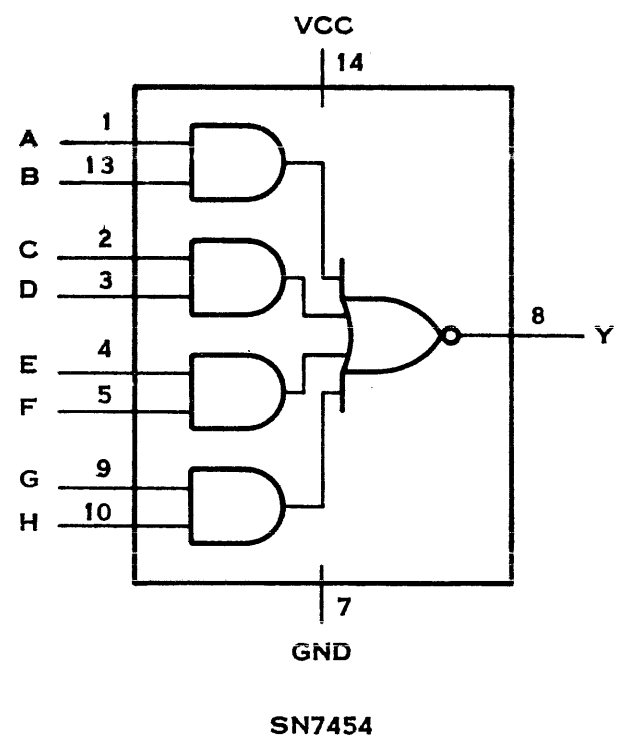
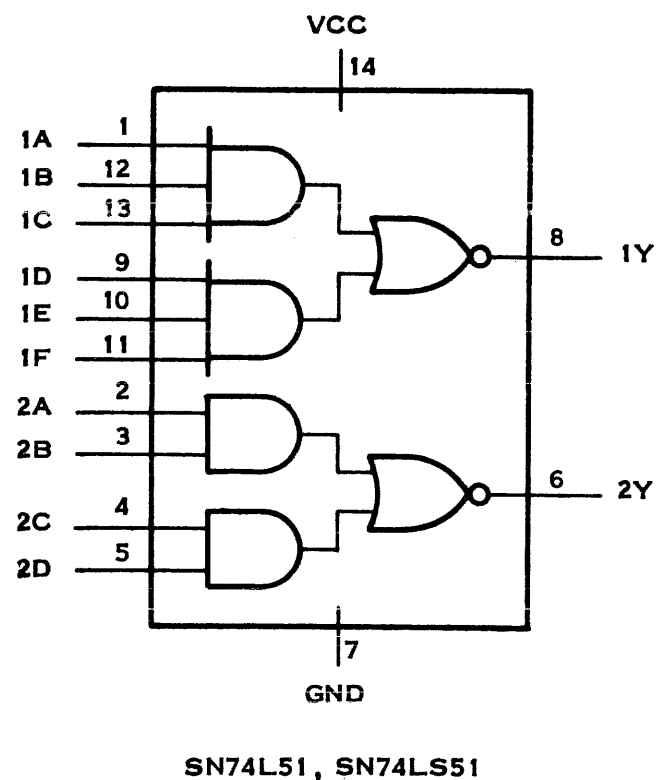
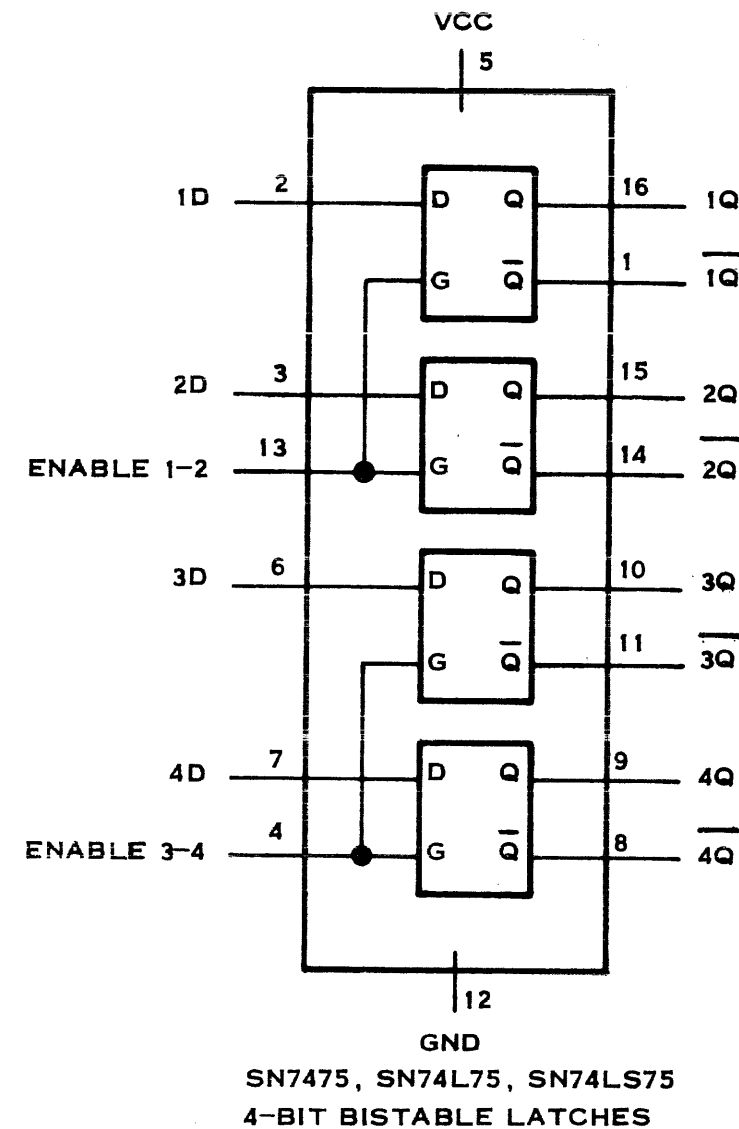
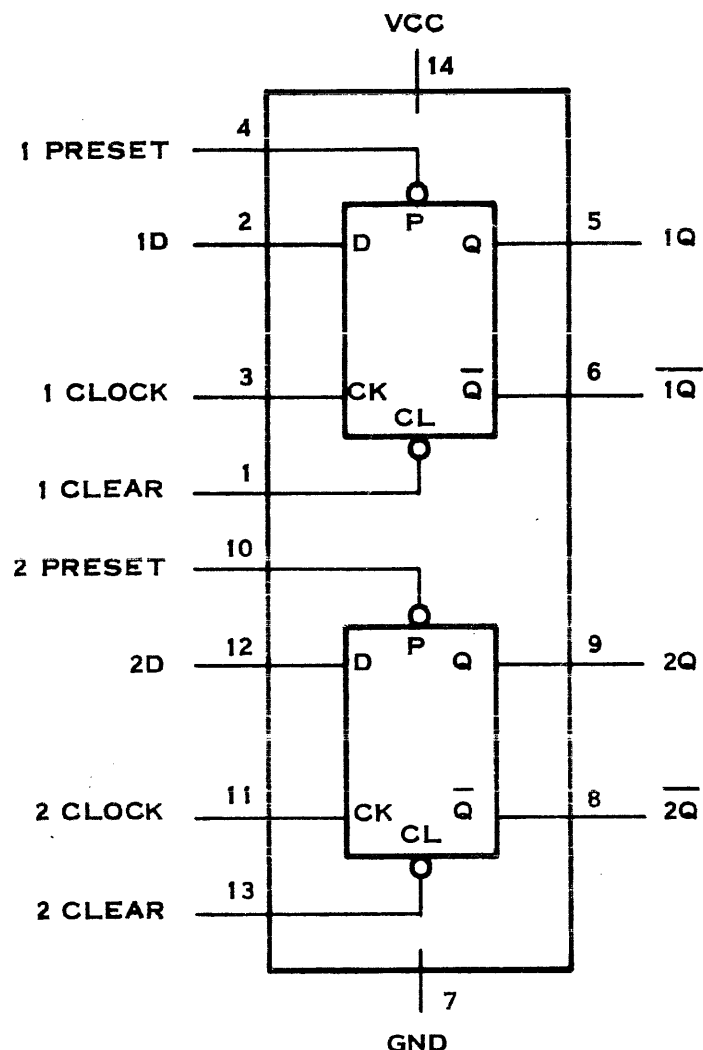
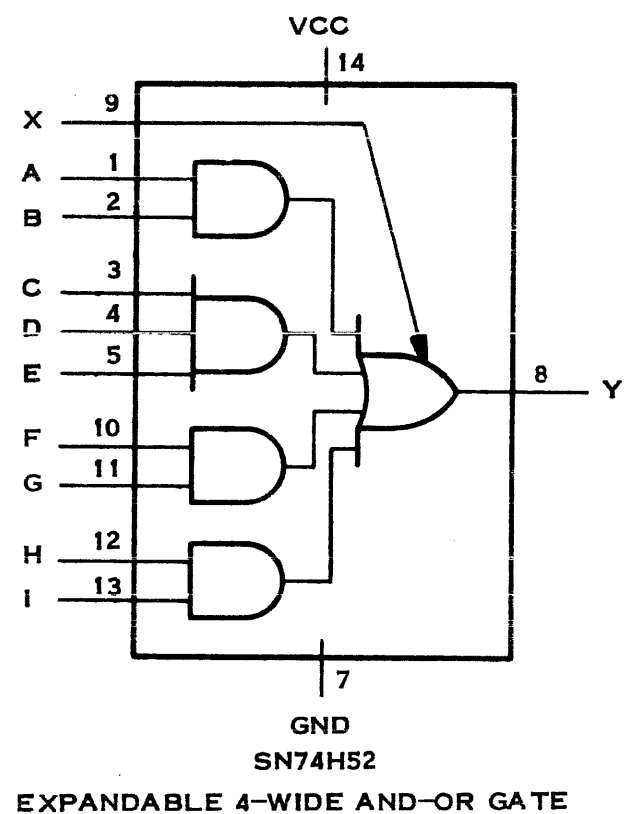
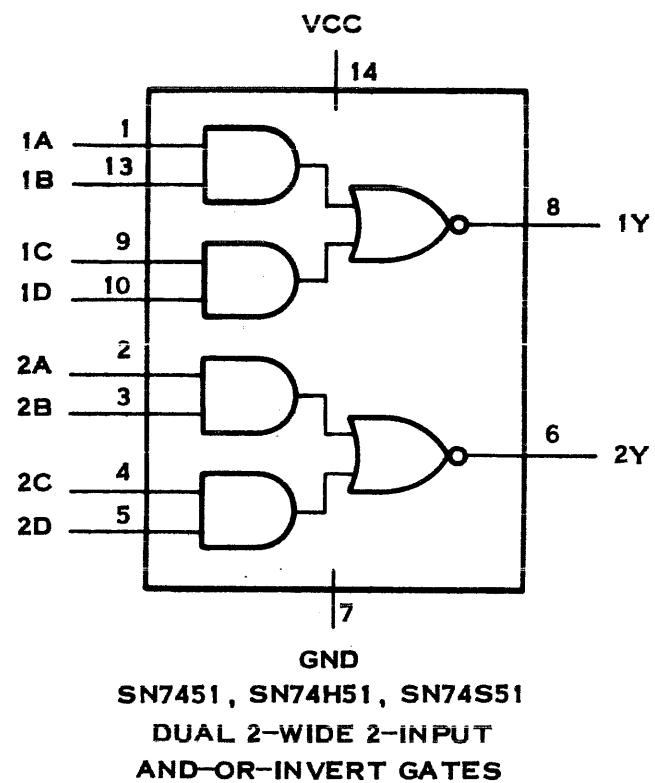
FUNCTION TABLE SN7442A, SN74L42, SN74LS42

NO.	BCD INPUT				DECIMAL OUTPUT									
	D	C	B	A	0	1	2	3	4	5	6	7	8	9
0	L	L	L	L	L	H	H	H	H	H	H	H	H	H
1	L	L	L	H	H	L	H	H	H	H	H	H	H	H
2	L	L	H	L	H	H	L	H	H	H	H	H	H	H
3	L	L	H	H	H	H	L	H	H	H	H	H	H	H
4	L	H	L	L	H	H	H	H	L	H	H	H	H	H
5	L	H	L	H	H	H	H	H	H	L	H	H	H	H
6	L	H	H	L	H	H	H	H	H	H	L	H	H	H
7	L	H	H	H	H	H	H	H	H	H	H	L	H	H
8	H	L	L	L	H	H	H	H	H	H	H	H	L	H
9	H	L	L	H	H	H	H	H	H	H	H	H	H	L
INVALID	H	L	H	L	H	H	H	H	H	H	H	H	H	H
	H	L	H	H	H	H	H	H	H	H	H	H	H	H
	H	H	L	L	H	H	H	H	H	H	H	H	H	H
	H	H	L	H	H	H	H	H	H	H	H	H	H	H
	H	H	H	L	H	H	H	H	H	H	H	H	H	H
	H	H	H	H	H	H	H	H	H	H	H	H	H	H

H=HIGH LEVEL, L = LOW LEVEL



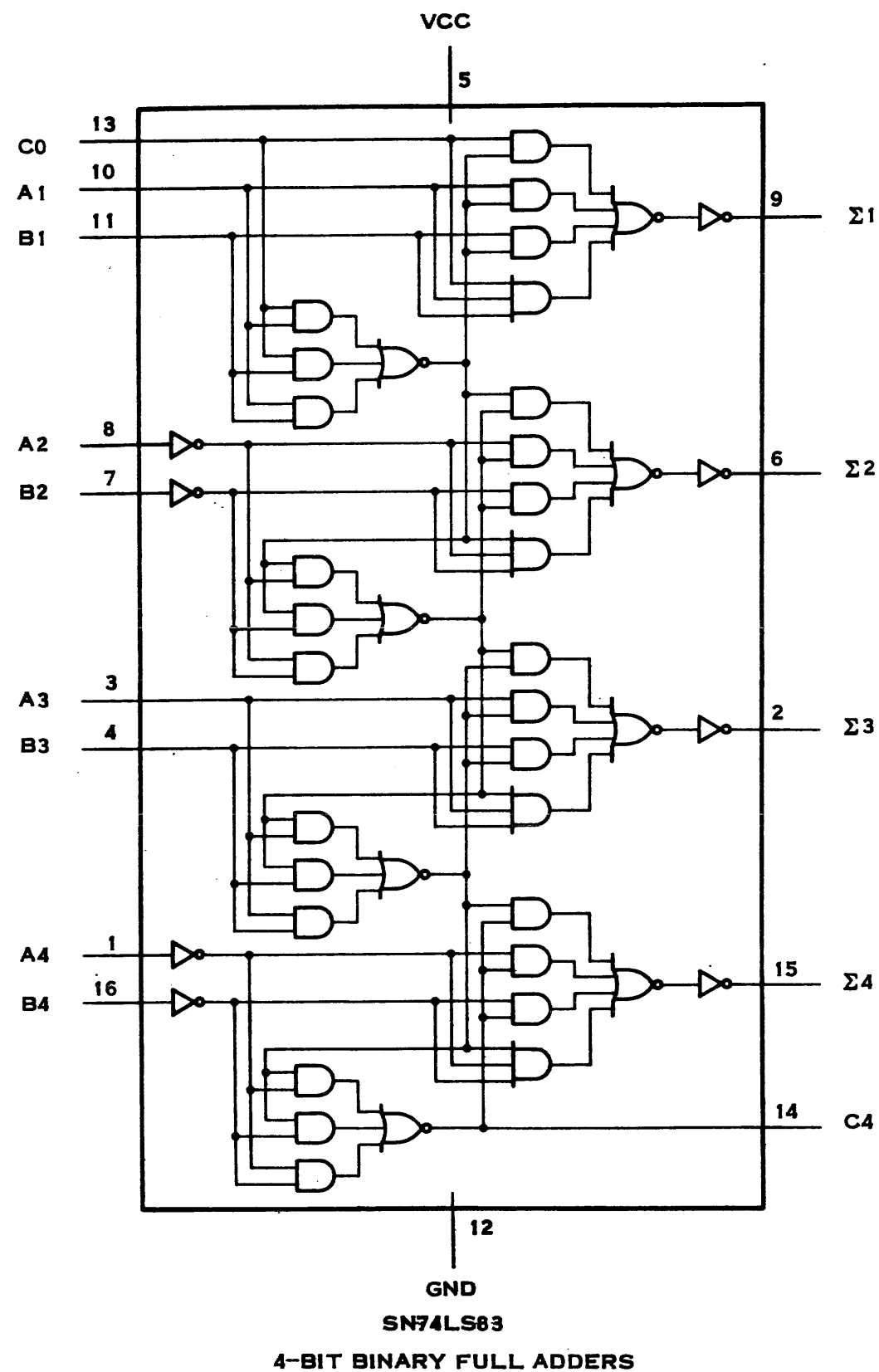
SN7442A, SN74L42, SN74LS42
 4-LINE-TO-10-LINE DECODER



FUNCTION TABLE SN7475,
SN74L75, SN74LS75

INPUT		OUTPUT	
D	G	Q	Q̄
L	H	L	H
H	H	H	L
X	L	Q ₀	Q̄ ₀

H = HIGH LEVEL
L = LOW LEVEL
Q₀ = THE LEVEL OF Q BEFORE THE HIGH-TO-LOW
TRANSITION OF G



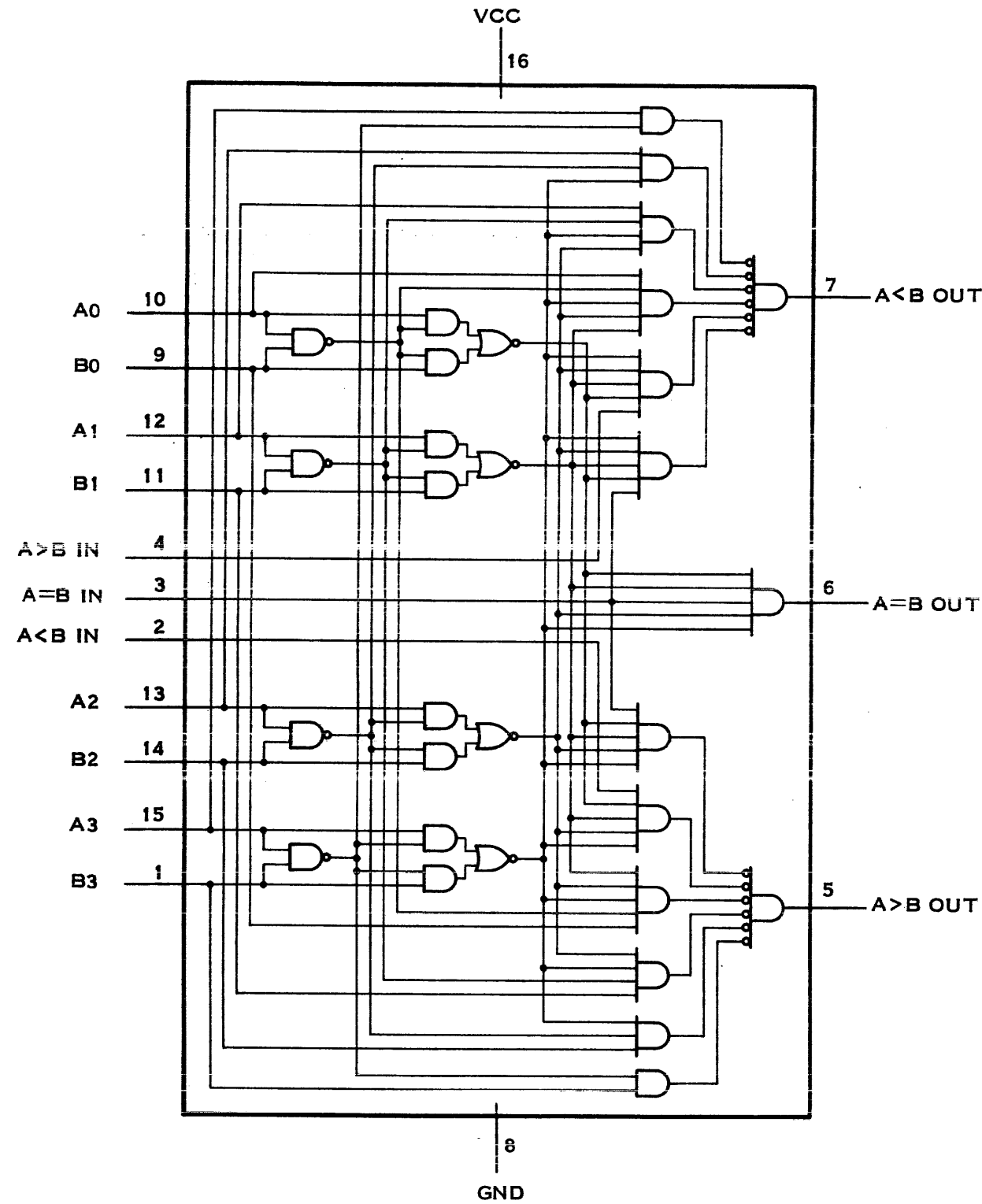
FUNCTION TABLE SN74LS83

INPUT				OUTPUT					
				WHEN C0=L			WHEN C0=H		
				WHEN C2=L			WHEN C2=H		
A1 A3	B1 B3	A2 A4	B2 B4	Σ1 Σ3	Σ2 Σ4	C2 C4	Σ1 Σ3	Σ2 Σ4	C2 C4
L	L	L	L	L	L	L	H	L	L
H	L	L	L	H	L	L	L	H	L
L	H	L	L	H	L	L	L	H	L
H	H	L	L	L	H	L	H	H	L
L	L	H	L	L	H	L	H	H	L
H	L	H	L	H	H	L	L	L	H
L	H	H	L	H	H	L	L	L	H
L	L	L	H	L	L	H	H	L	H
H	L	L	H	L	L	H	L	L	H
L	H	L	H	L	L	H	H	L	H
H	L	H	H	H	L	H	L	H	H
L	H	H	H	H	L	H	L	H	H
H	H	H	H	L	H	H	H	H	H

H = HIGH LEVEL

L = LOW LEVEL

NOTE: INPUT CONDITIONS AT A1, B1, A2, B2, AND C0 ARE USED TO DETERMINE OUTPUTS Σ1 AND Σ2 AND THE VALUE OF THE INTERNAL CARRY C2, THE VALUES AT C2, A3, B3, A4, AND B4 ARE THEN USED TO DETERMINE OUTPUTS Σ3, Σ4, AND C4.

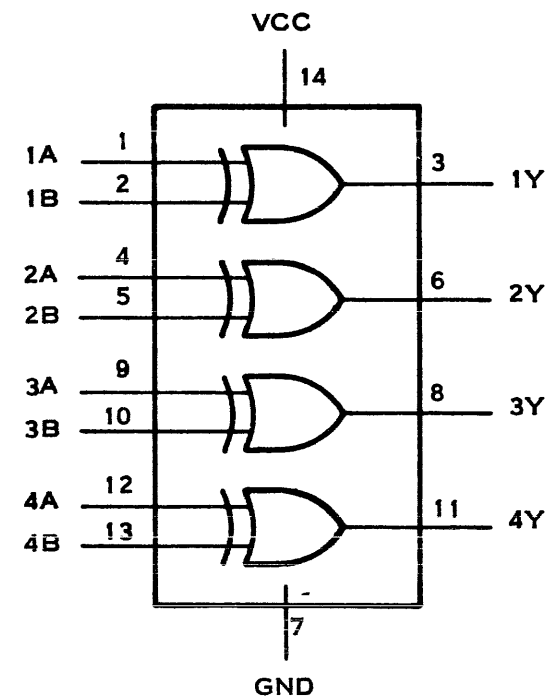


SN7485, SN74LS85, SN74S85
4-BIT MAGNITUDE COMPARATORS

FUNCTION TABLE SN7485, SN74LS85, SN74S85

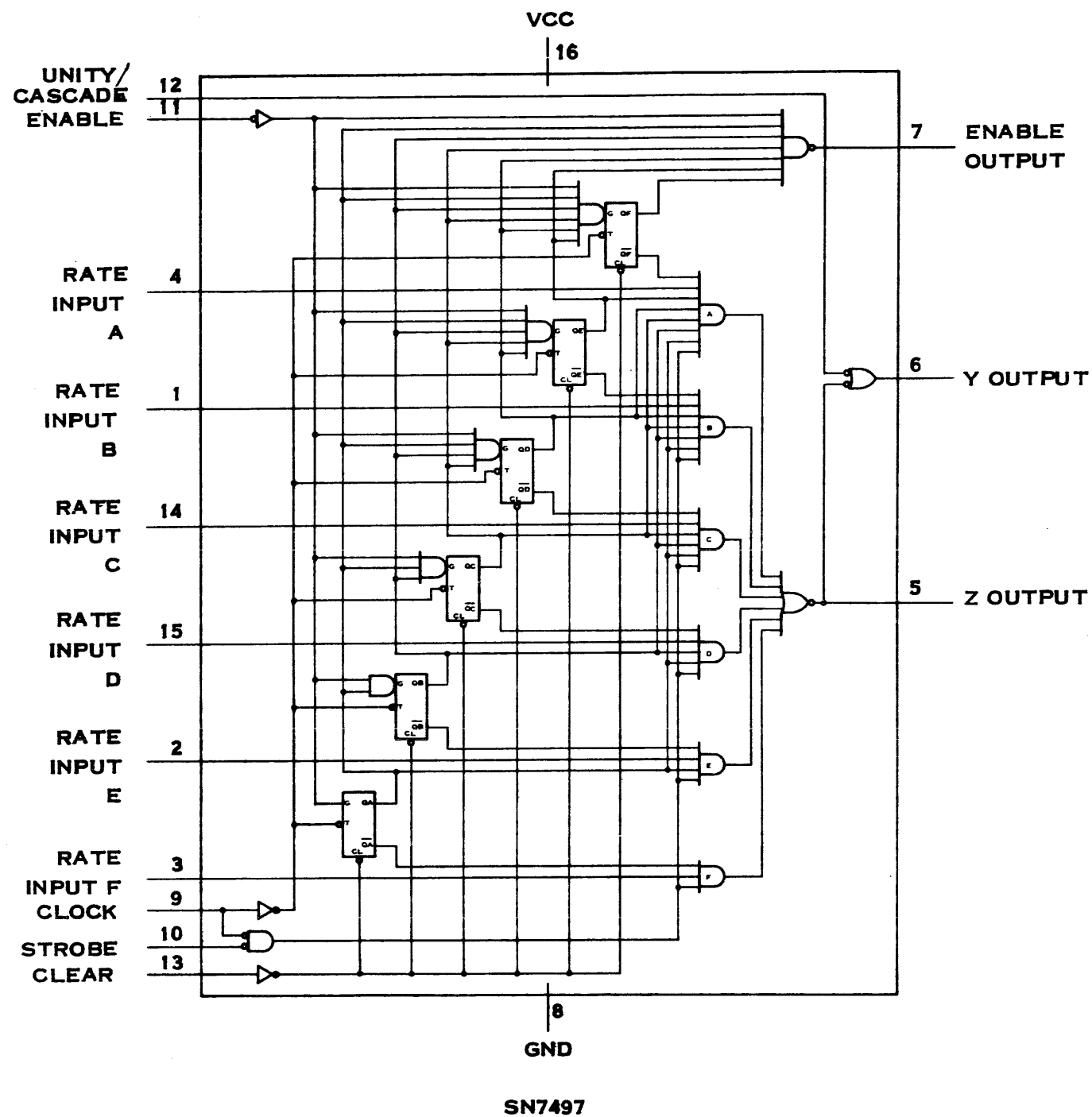
COMPARING INPUTS				CASCADING INPUTS			OUTPUTS		
A3, B3	A2, B2	A1, B1	A0, B0	A > B	A < B	A = B	A > B	A < B	A = B
A3 > B3	X	X	X	X	X	X	H	L	L
A3 < B3	X	X	X	X	X	X	L	H	L
A3 = B3	A2 > B2	X	X	X	X	X	H	L	L
A3 = B3	A2 < B2	X	X	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 > B1	X	X	X	X	H	L	L
A3 = B3	A2 = B2	A1 < B1	X	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 > B0	X	X	X	H	L	L
A3 = B3	A2 = B2	A1 = B1	A0 < B0	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	H	L	L	H	L	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	H	L	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	L	H	L	L	H
A3 = B3	A2 = B2	A1 = B1	A0 = B0	X	X	H	L	L	H
A3 = B3	A2 = B2	A1 = B1	A0 = B0	H	H	L	L	L	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	L	L	H	H	L

H = HIGH LEVEL, L=LOW LEVEL, X=IRRELEVANT



SN7486, SN74LS86, SN74S86
QUADRUPLE 2-INPUT
EXCLUSIVE-OR GATES

TRUTH TABLE		
INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0



SYNCHRONOUS 6-BIT BINARY RATE MULTIPLIER

STATE AND/OR RATE FUNCTION TABLE SN7497

INPUTS										OUTPUTS			NOTES		
CLEAR	ENABLE	STROBE	BINARY RATE						NUMBER OF CLOCK PULSES	UNITY/CASCADE	LOGIC LEVEL OR NUMBER OF PULSES				
			F	E	D	C	B	A			Y	Z		ENABLE	
H	X	H	X	X	X	X	X	X	X	X	H	L	H	H	B
L	L	L	L	L	L	L	L	L	L	64	H	L	H	1	C
L	L	L	L	L	L	L	L	L	H	64	H	1	1	1	C
L	L	L	L	L	L	L	H	L	L	64	H	2	2	1	C
L	L	L	L	L	L	H	L	L	L	64	H	4	4	1	C
L	L	L	L	L	H	L	L	L	L	64	H	8	8	1	C
L	L	L	L	H	L	L	L	L	L	64	H	16	16	1	C
L	L	L	H	L	L	L	L	L	L	64	H	32	32	1	C
L	L	L	H	H	H	H	H	H	H	64	H	63	63	1	C
L	L	L	H	H	H	H	H	H	H	64	L	H	63	1	D
L	L	L	H	L	H	L	L	L	L	64	H	40	40	1	E

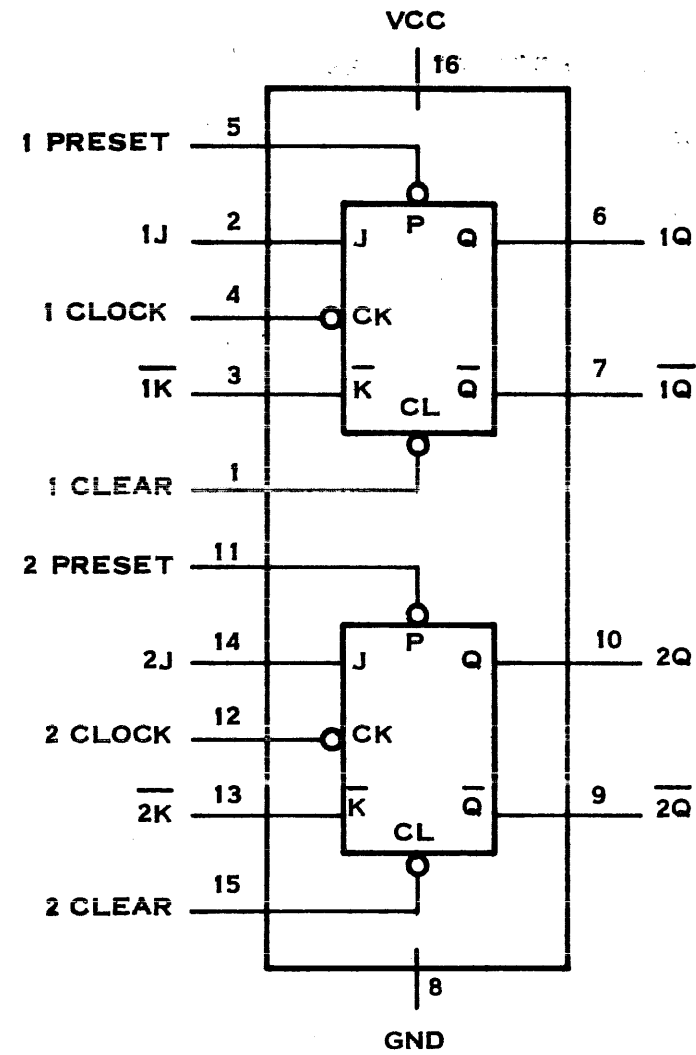
NOTES: A. H=HIGH LEVEL, L=LOW LEVEL, X=IRRELEVANT, ALL REMAINING ENTRIES ARE NUMERIC COUNTS

B. THIS IS A SIMPLIFIED ILLUSTRATION OF THE CLEAR FUNCTION. THE STATES OF CLOCK AND STROBE CAN AFFECT THE LOGIC LEVEL OF Y AND Z. A LOW UNITY/CASCADE WILL CAUSE OUTPUT Y TO REMAIN HIGH.

C. EACH RATE ILLUSTRATED ASSUMES A CONSTANT VALUE AT RATE INPUTS; HOWEVER, THESE ILLUSTRATIONS IN NO WAY PROHIBIT VARIABLE-RATE INPUTS.

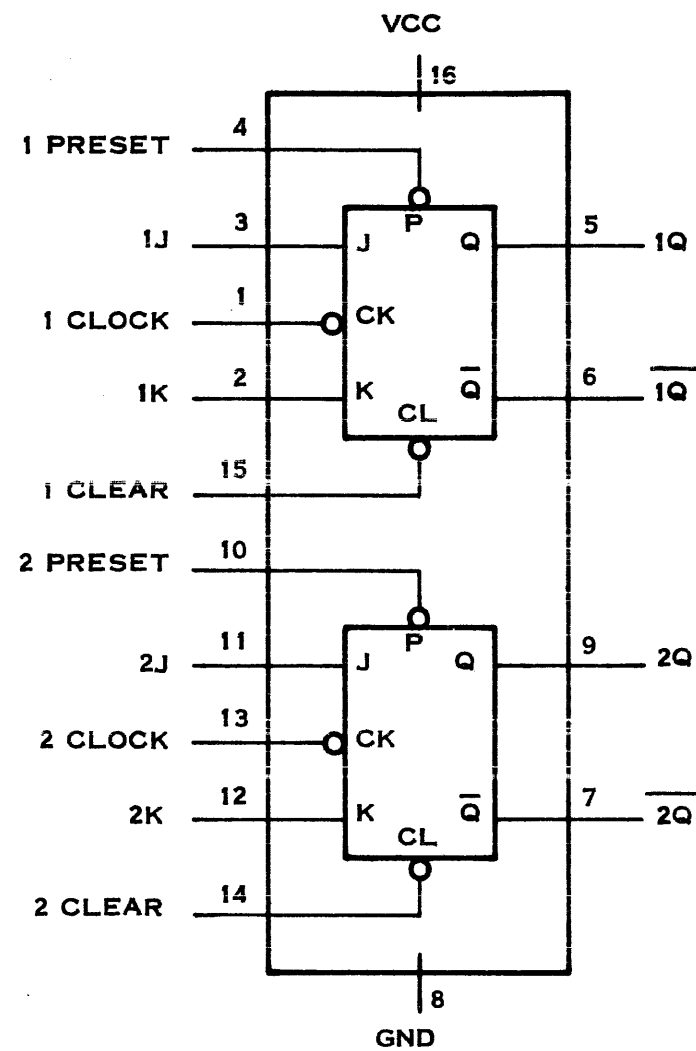
D. UNITY/CASCADE IS USED TO INHIBIT OUTPUT Y.

$$E. \text{ } ^1\text{OUT} = \frac{M \cdot \text{}^1\text{IN}}{64} = \frac{(8+32) \text{}^1\text{IN}}{64} = \frac{40 \text{}^1\text{IN}}{64} = 0.625 \text{}^1\text{IN}$$



SN74109, SN74LS109

DUAL J-K POSITIVE-EDGE-TRIGGERED
FLIP-FLOPS WITH PRESET AND CLEAR



SN74LS112, SN74S112

DUAL J-K NEGATIVE-EDGE-TRIGGERED
FLIP-FLOPS WITH PRESET AND CLEAR

FUNCTION TABLE SN74112

INPUTS					OUTPUTS	
PRESET	CLEAR	CLOCK	J	K	Q	\bar{Q}
L	H	X	X	X	H	L
H	L	X	X	X	L	H
L	L	X	X	X	H*	H*
H	H	↓	L	L	Q ₀	\bar{Q}_0
H	H	↓	H	L	H	L
H	H	↓	L	H	L	H
H	H	↓	H	H	TOGGLE	TOGGLE
H	H	H	X	X	Q ₀	\bar{Q}_0

H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

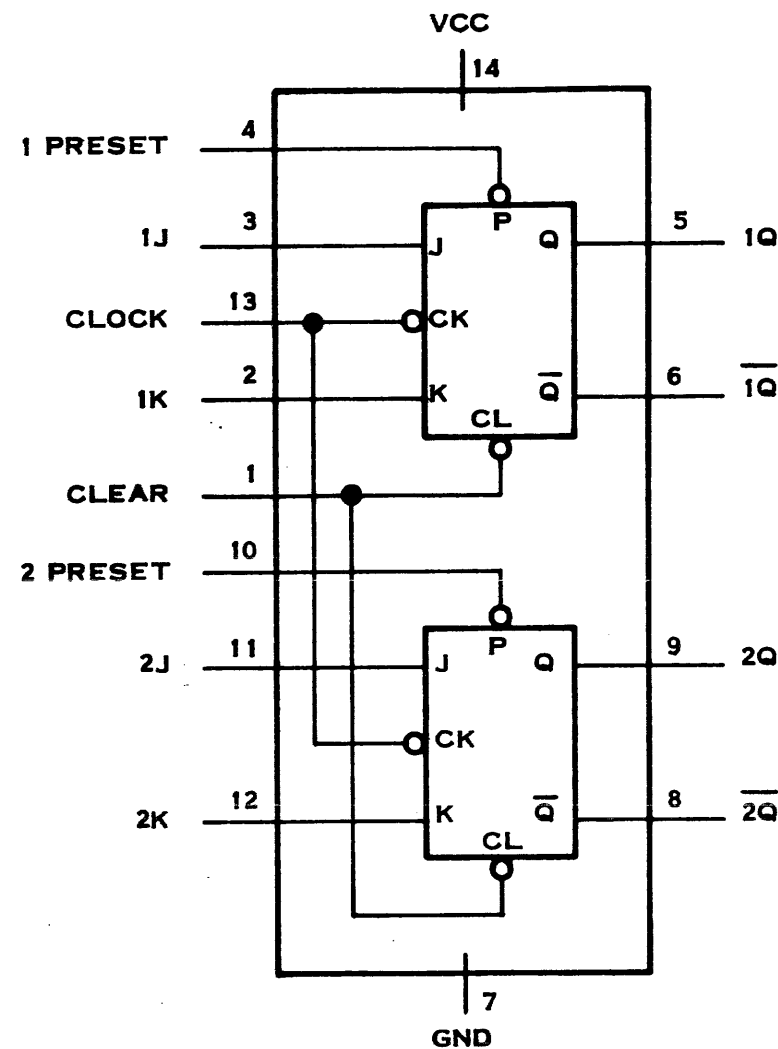
X = IRRELEVANT

↓ = TRANSITION FROM HIGH TO LOW LEVEL

Q₀ = THE LEVEL OF Q BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED.

TOGGLE: EACH OUTPUT CHANGES TO THE COMPLEMENT OF ITS PREVIOUS LEVEL ON EACH ACTIVE TRANSITION (PULSE) OF THE CLOCK.

*THIS CONFIGURATION IS NONSTABLE; THAT IS, IT WILL NOT PERSIST WHEN PRESET AND CLEAR INPUTS RETURN TO THEIR INACTIVE (HIGH) LEVEL.



SN74LS114, SN74S114

DUAL J-K NEGATIVE-EDGE-TRIGGERED
FLIP-FLOPS WITH PRESET,
COMMON CLEAR, AND COMMON CLOCK

FUNCTION TABLE SN74114

INPUTS					OUTPUTS	
PRESET	CLEAR	CLOCK	J	K	Q	\bar{Q}
L	H	X	X	X	H	L
H	L	X	X	X	L	H
L	L	X	X	X	H*	H*
H	H	↓	L	L	Q ₀	\bar{Q}_0
H	H	↓	H	L	H	L
H	H	↓	L	H	L	H
H	H	↓	H	H	TOGGLE	TOGGLE
H	H	H	X	X	Q ₀	\bar{Q}_0

H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

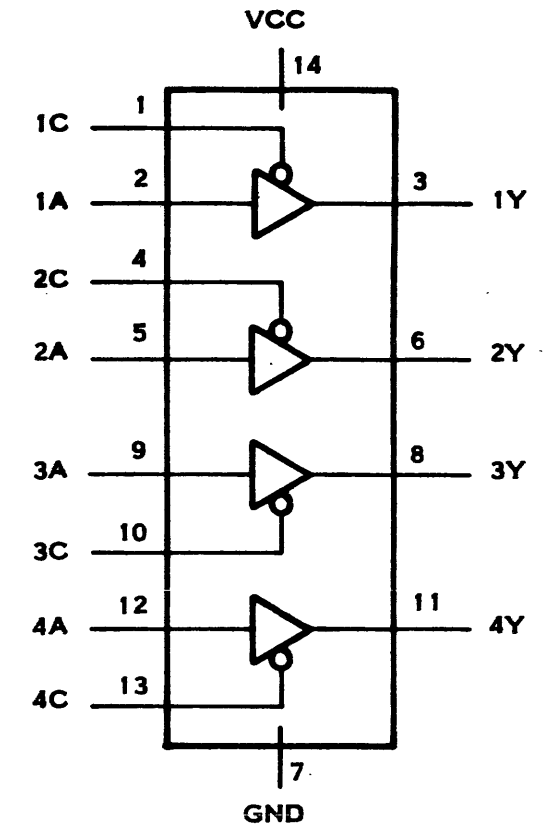
X = IRRELEVANT

↓ = TRANSITION FROM HIGH TO LOW LEVEL

Q₀ = THE LEVEL OF Q BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED.

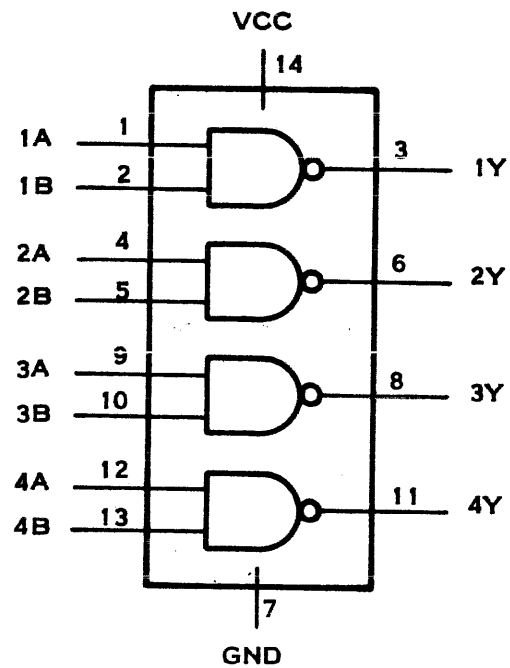
TOGGLE: EACH OUTPUT CHANGES TO THE COMPLEMENT OF ITS PREVIOUS LEVEL ON EACH ACTIVE TRANSITION (PULSE) OF THE CLOCK.

* THIS CONFIGURATION IS NONSTABLE; THAT IS, IT WILL NOT PERSIST WHEN PRESET AND CLEAR INPUTS RETURN TO THEIR INACTIVE (HIGH) LEVEL.

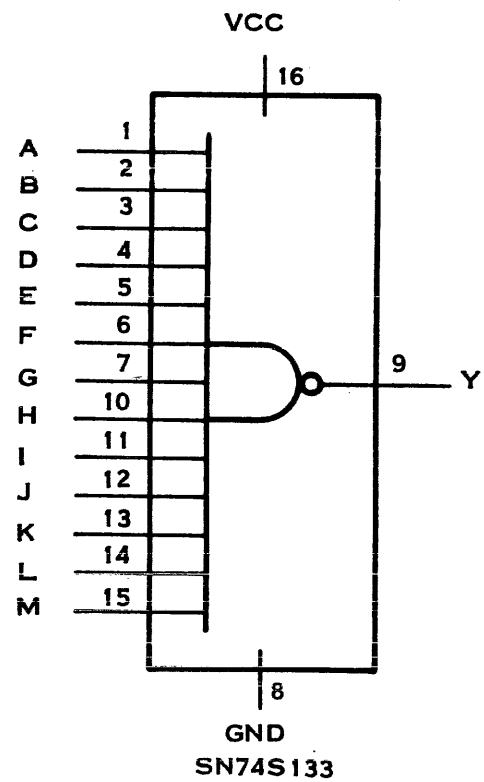


SN74125

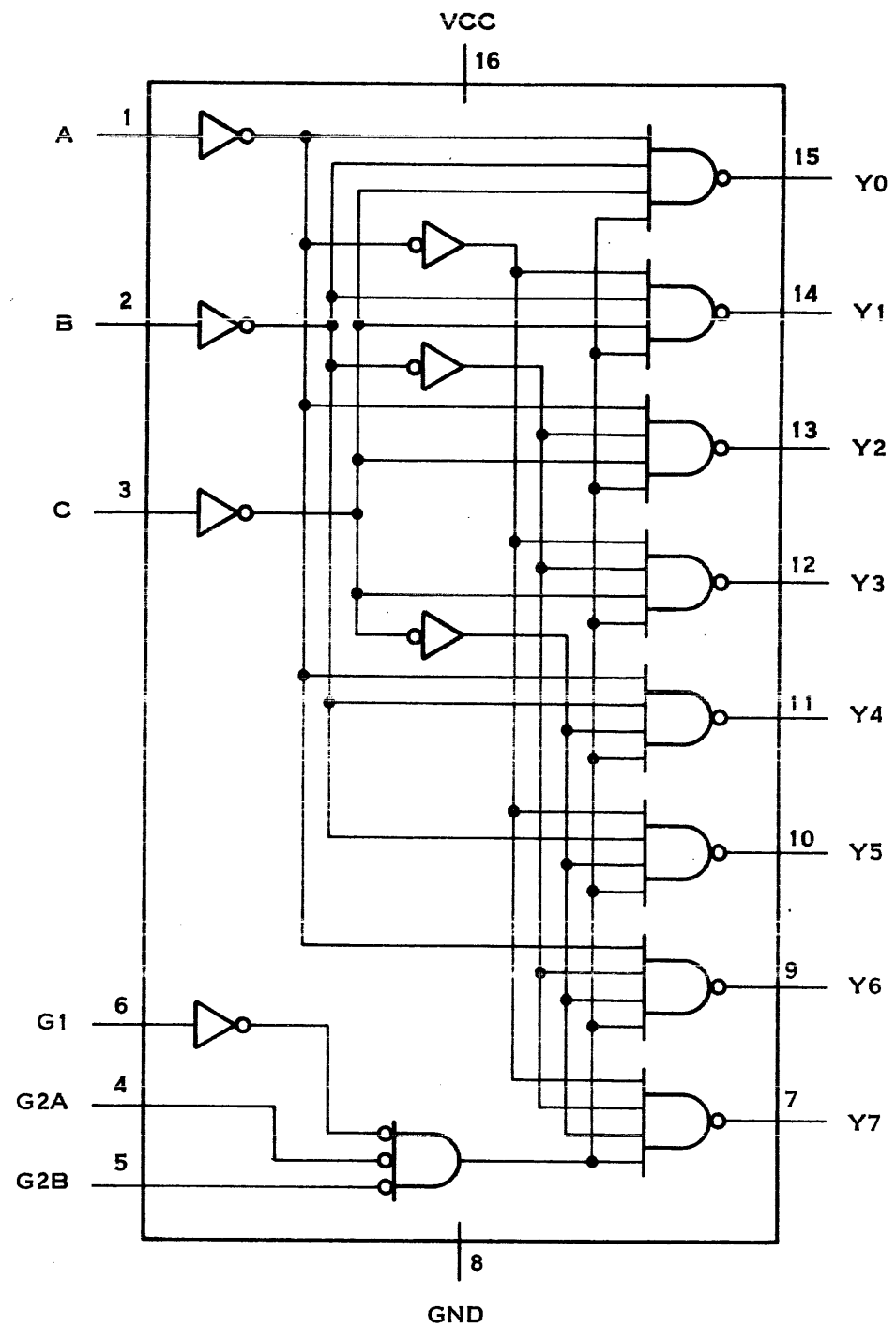
QUADRUPLE BUS BUFFER GATES
WITH THREE-STATE OUTPUTS



SN74132, SN74LS132, SN74S132
QUADRUPLE 2-INPUT POSITIVE-NAND
GATES WITH SCHMITT TRIGGERS



SN74S133
13-INPUT POSITIVE-NAND GATE

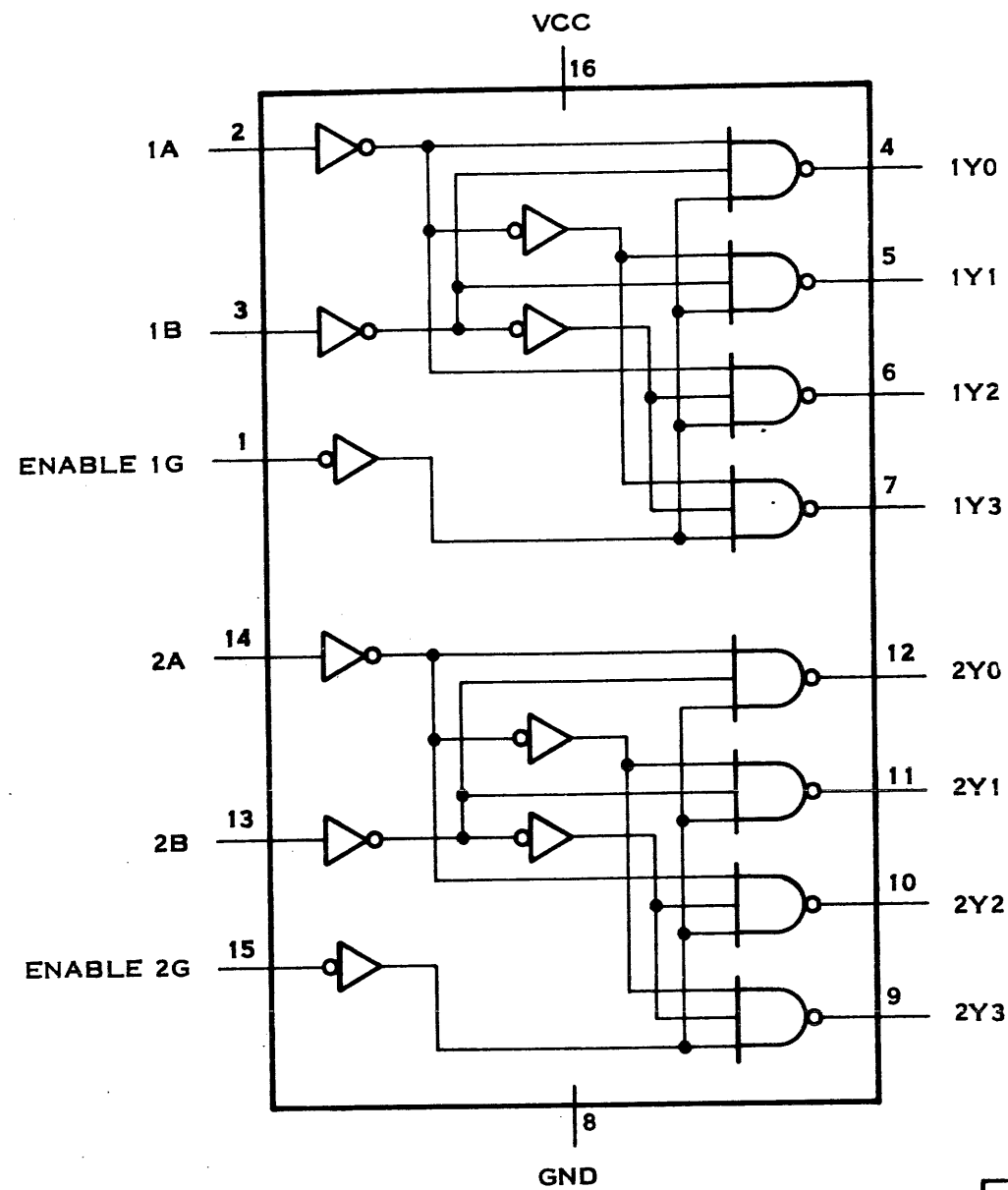


SN74LS138, SN74S138
DECODER/DEMULTIPLEXER

FUNCTION TABLE SN74LS138, SN74S138

INPUTS					OUTPUTS							
ENABLE		SELECT										
G1	G2*	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	H	X	X	X	H	H	H	H	H	H	H	H
L	X	X	X	X	H	H	H	H	H	H	H	H
H	L	L	L	L	L	H	H	H	H	H	H	H
H	L	L	L	H	H	L	H	H	H	H	H	H
H	L	L	H	L	H	H	L	H	H	H	H	H
H	L	L	H	H	H	H	H	L	H	H	H	H
H	L	H	L	L	H	H	H	H	L	H	H	H
H	L	H	L	H	H	H	H	H	H	L	H	H
H	L	H	H	L	H	H	H	H	H	H	L	H
H	L	H	H	H	H	H	H	H	H	H	H	L

*G2 = G2A + G2B
H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT



SN74LS139, SN74S139
DECODER/DEMULTIPLEXER

FUNCTION TABLE SN74LS139, SN74S139

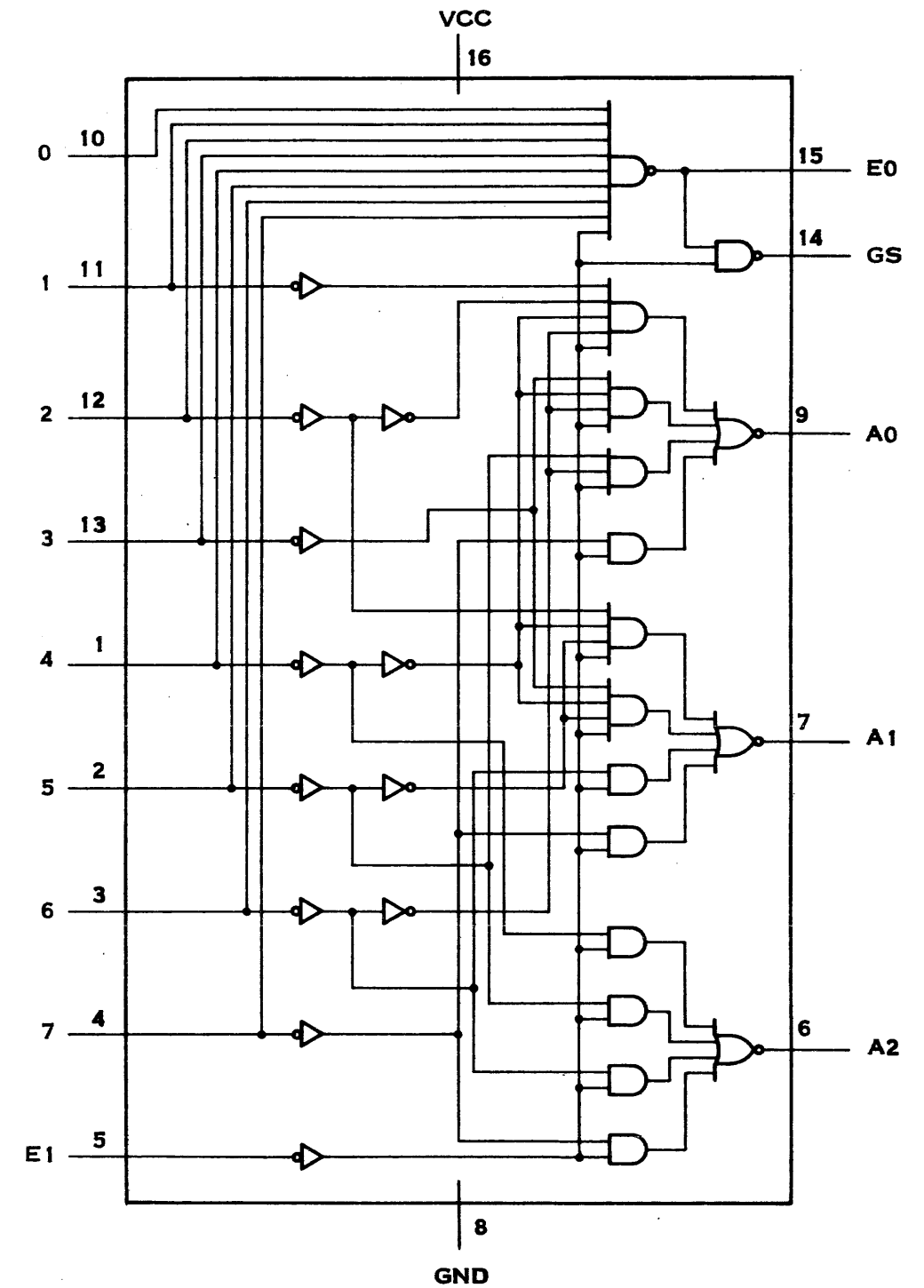
INPUTS			OUTPUTS			
ENABLE	SELECT		Y0	Y1	Y2	Y3
G	B	A	Y0	Y1	Y2	Y3
H	X	X	H	H	H	H
L	L	L	L	H	H	H
L	L	H	H	L	H	H
L	H	L	H	H	L	H
L	H	H	H	H	H	L

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT

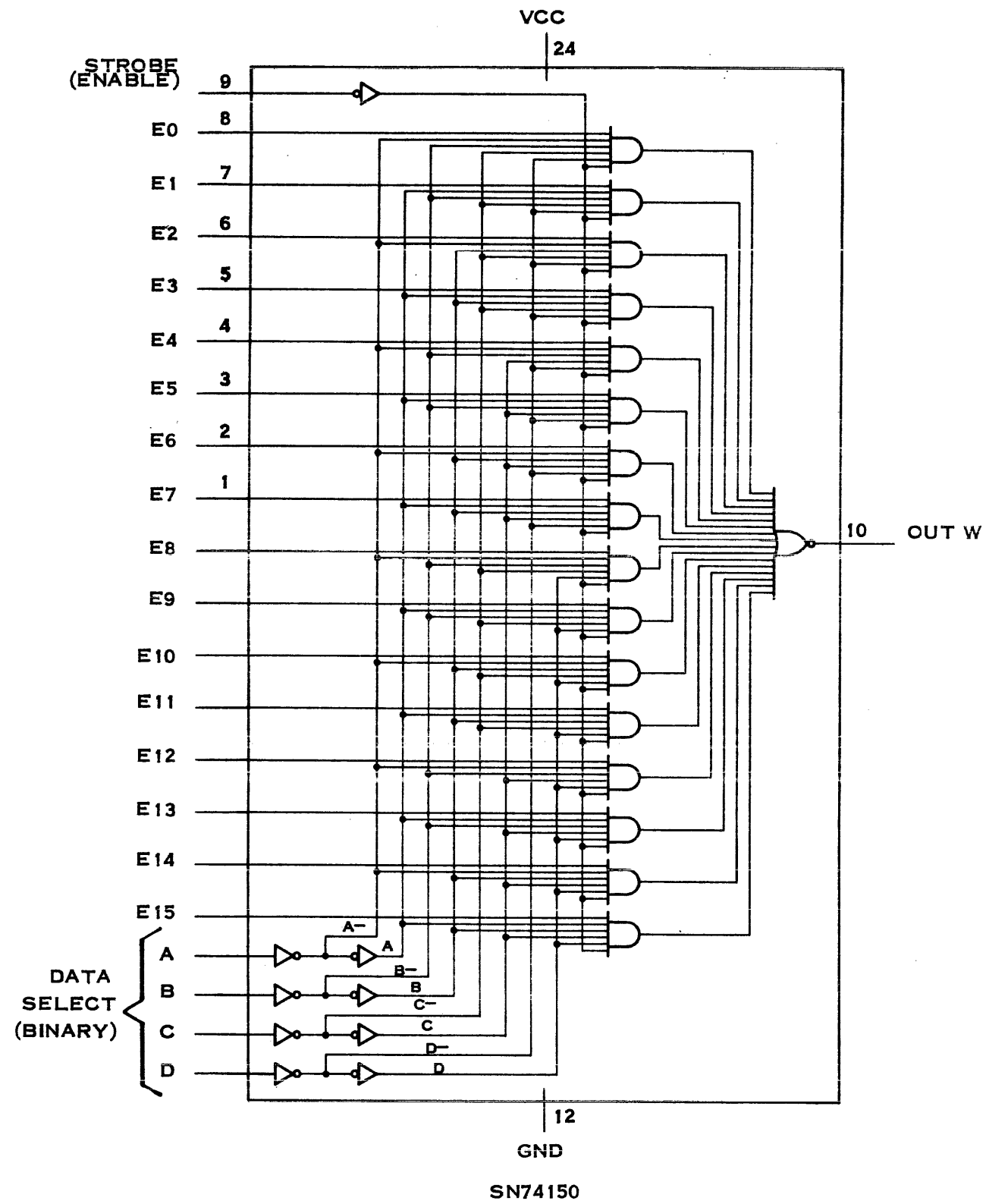
FUNCTION TABLE SN74148

INPUTS									OUTPUTS				
EI	0	1	2	3	4	5	6	7	A2	A1	A0	GS	EO
H	X	X	X	X	X	X	X	X	H	H	H	H	H
L	H	H	H	H	H	H	H	H	H	H	H	H	L
L	X	X	X	X	X	X	X	L	L	L	L	L	H
L	X	X	X	X	X	L	H	H	L	H	L	L	H
L	X	X	X	X	L	H	H	H	L	H	H	L	H
L	X	X	X	L	H	H	H	H	H	L	L	L	H
L	X	X	L	H	H	H	H	H	H	L	H	L	H
L	X	L	H	H	H	H	H	H	H	H	L	L	H
L	L	H	H	H	H	H	H	H	H	H	H	L	H

H = HIGH LOGIC LEVEL
L = LOW LOGIC LEVEL
X = IRRELEVANT



SN74148
8 DATA LINES TO 3-LINE BINARY
PRIORITY ENCODERS



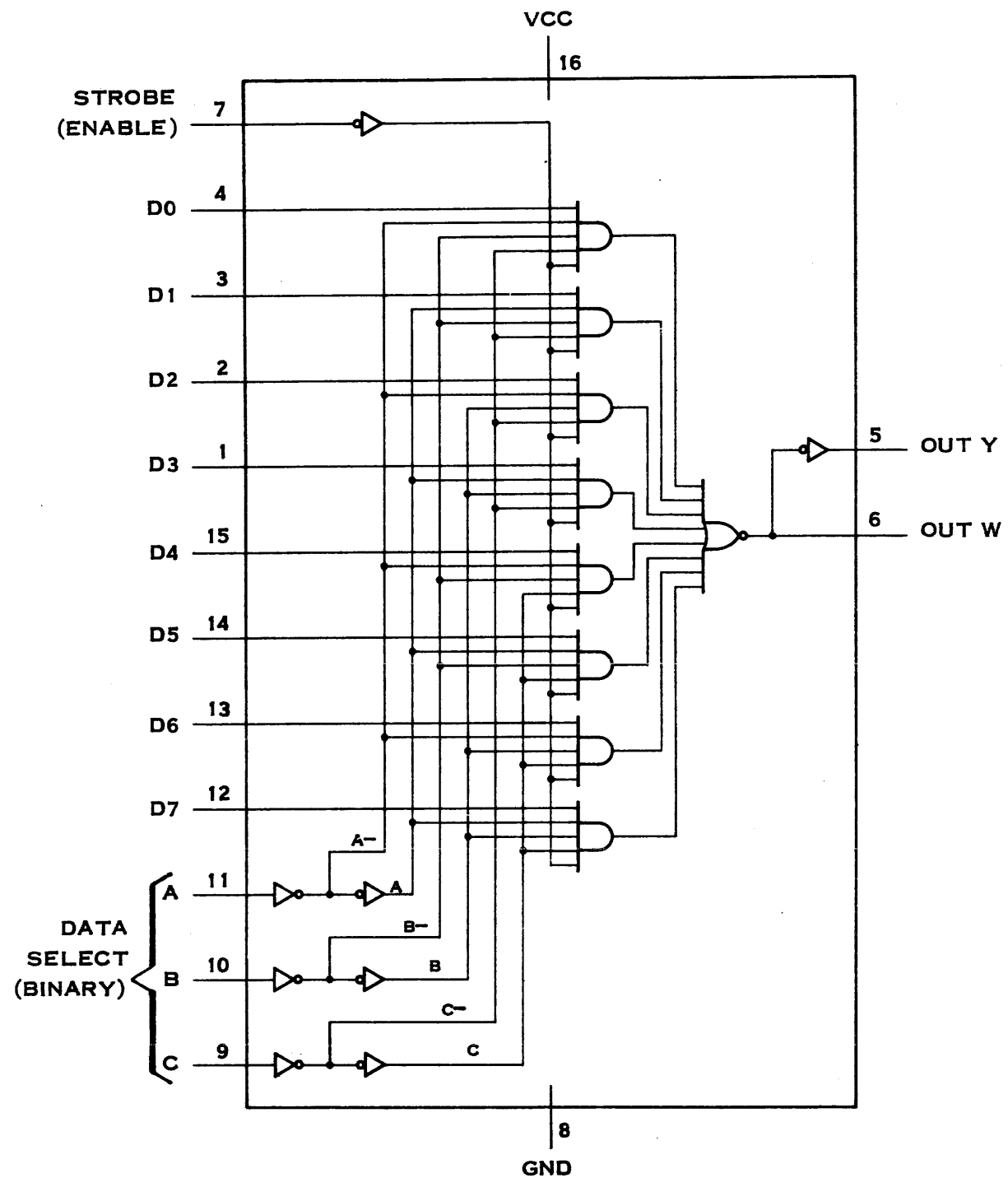
SN74150
DATA SELECTOR/MULTIPLEXER

FUNCTION TABLE SN74150

INPUTS					STROBE S	OUTPUT W
SELECT						
D	C	B	A	S	W	
X	X	X	X	H	$\overline{E_0}$	
L	L	L	L	L	$\overline{E_1}$	
L	L	L	H	L	$\overline{E_2}$	
L	L	H	L	L	$\overline{E_3}$	
L	H	L	L	L	$\overline{E_4}$	
L	H	L	H	L	$\overline{E_5}$	
L	H	H	L	L	$\overline{E_6}$	
L	H	H	H	L	$\overline{E_7}$	
H	L	L	L	L	$\overline{E_8}$	
H	L	L	H	L	$\overline{E_9}$	
H	L	H	L	L	$\overline{E_{10}}$	
H	L	H	H	L	$\overline{E_{11}}$	
H	H	L	L	L	$\overline{E_{12}}$	
H	H	L	H	L	$\overline{E_{13}}$	
H	H	H	L	L	$\overline{E_{14}}$	
H	H	H	H	L	$\overline{E_{15}}$	

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT

$\overline{E_0}, \overline{E_1}, \dots, \overline{E_{15}}$ = THE COMPLEMENT OF THE LEVEL OF THE RESPECTIVE E INPUT

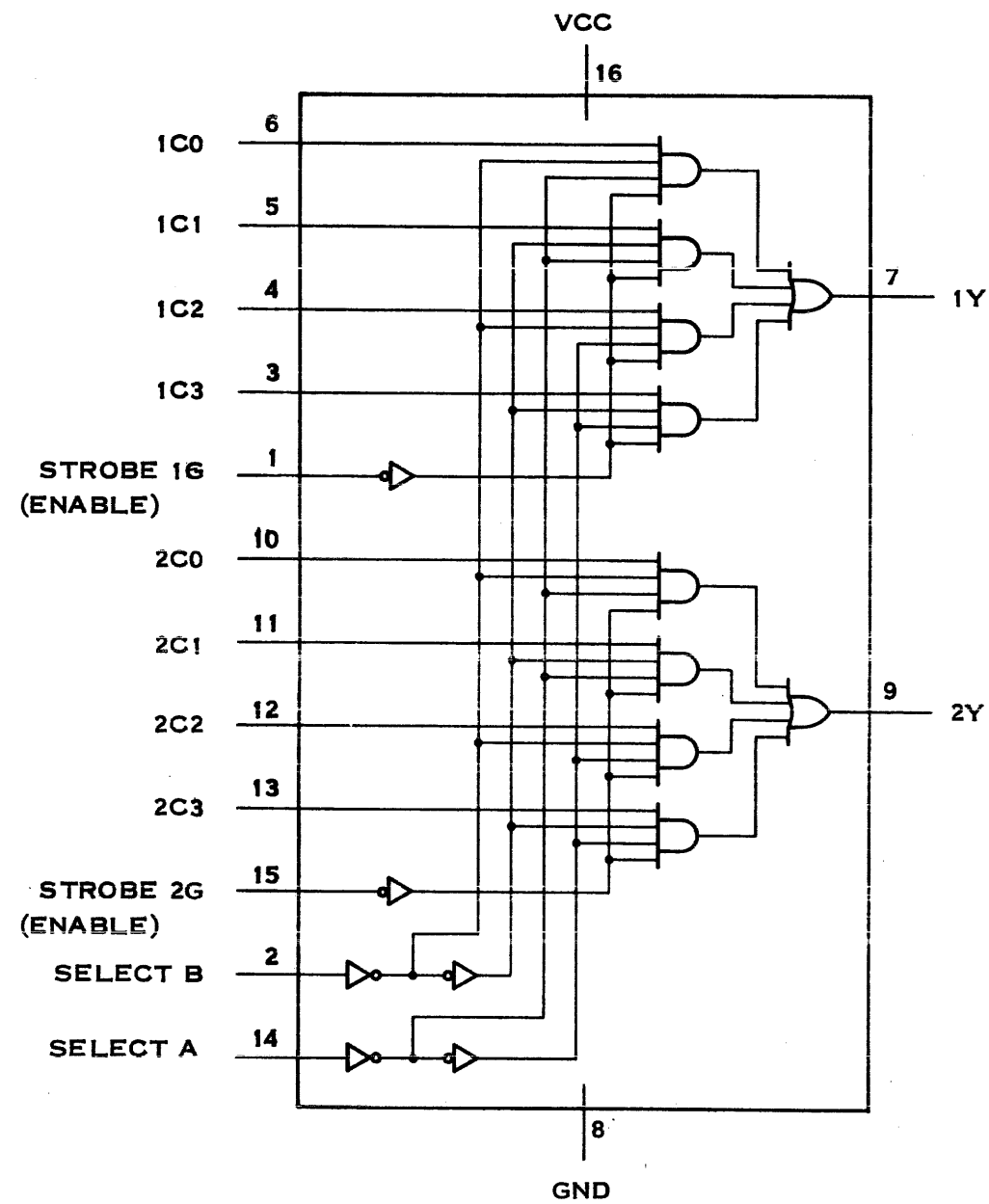


SN74LS151, SN74S151
DATA SELECTOR/MULTIPLEXER

FUNCTION TABLE SN74LS151, SN74S151

INPUTS				OUTPUTS	
SELECT			STROBE	Y	W
C	B	A	S	Y	W
X	X	X	H	L	\overline{H}
L	L	L	L	D0	$\overline{D0}$
L	L	H	L	D1	$\overline{D1}$
L	H	L	L	D2	$\overline{D2}$
L	H	H	L	D3	$\overline{D3}$
H	L	L	L	D4	$\overline{D4}$
H	L	H	L	D5	$\overline{D5}$
H	H	L	L	D6	$\overline{D6}$
H	H	H	L	D7	$\overline{D7}$

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT
D0, D1...D7 = THE LEVEL OF THE D RESPECTIVE INPUT



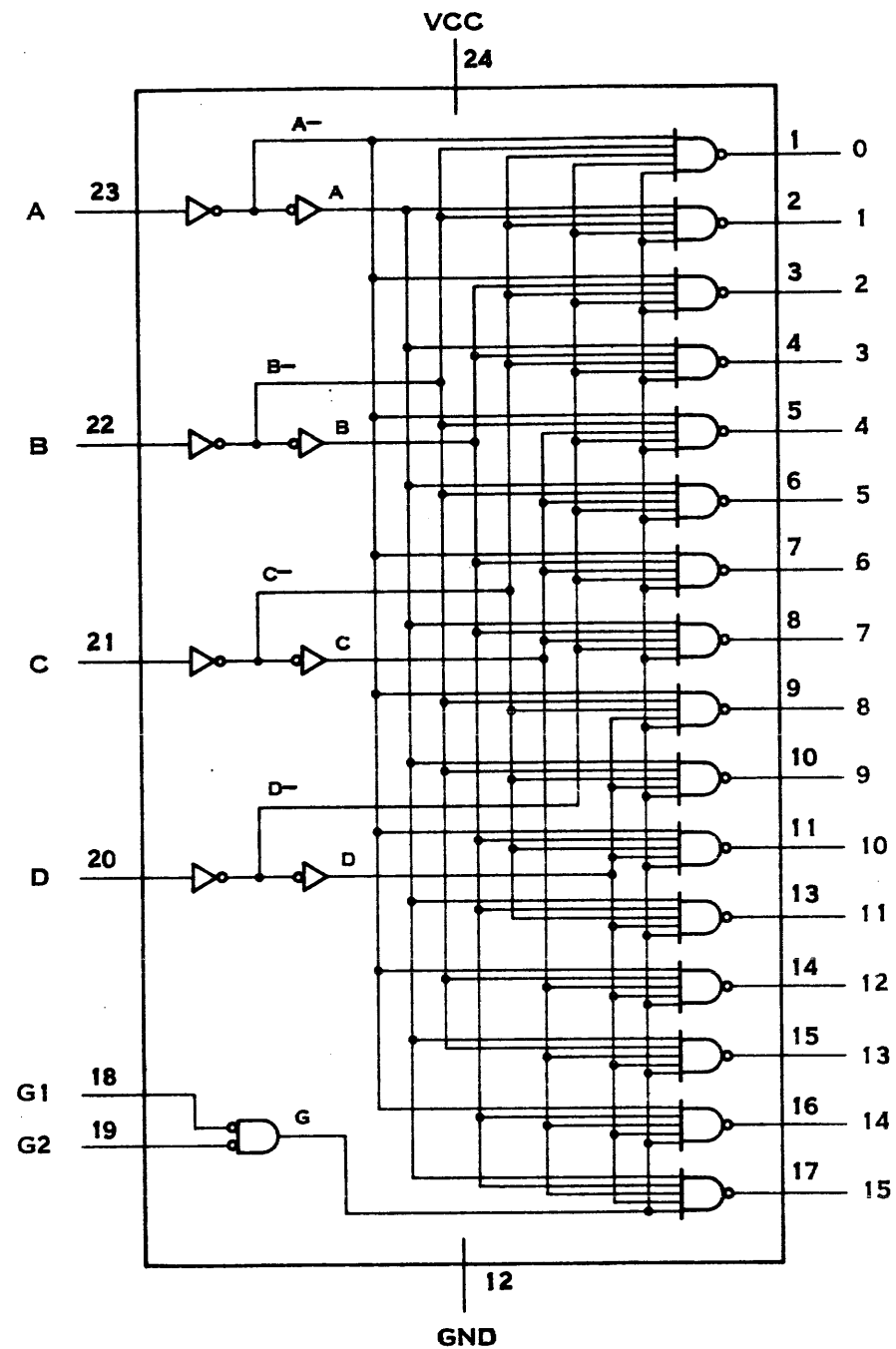
SN74153, SN74L153, SN74LS153, SN74S153

DUAL 4-LINE-TO-1-LINE DATA
SELECTOR/MULTIPLEXER

FUNCTION TABLE SN74153

SELECT INPUTS		DATA INPUTS				STROBE	OUTPUT
B	A	C0	C1	C2	C3	G	Y
X	X	X	X	X	X	H	L
L	L	L	X	X	X	L	L
L	L	H	X	X	X	L	H
L	H	X	L	X	X	L	L
L	H	X	H	X	X	L	H
H	L	X	X	L	X	L	L
H	L	X	X	H	X	L	H
H	H	X	X	X	L	L	L
H	H	X	X	X	H	L	H

SELECT INPUTS A AND B ARE COMMON TO BOTH SECTIONS.
 H = HIGH LEVEL
 L = LOW LEVEL
 X = IRRELEVANT

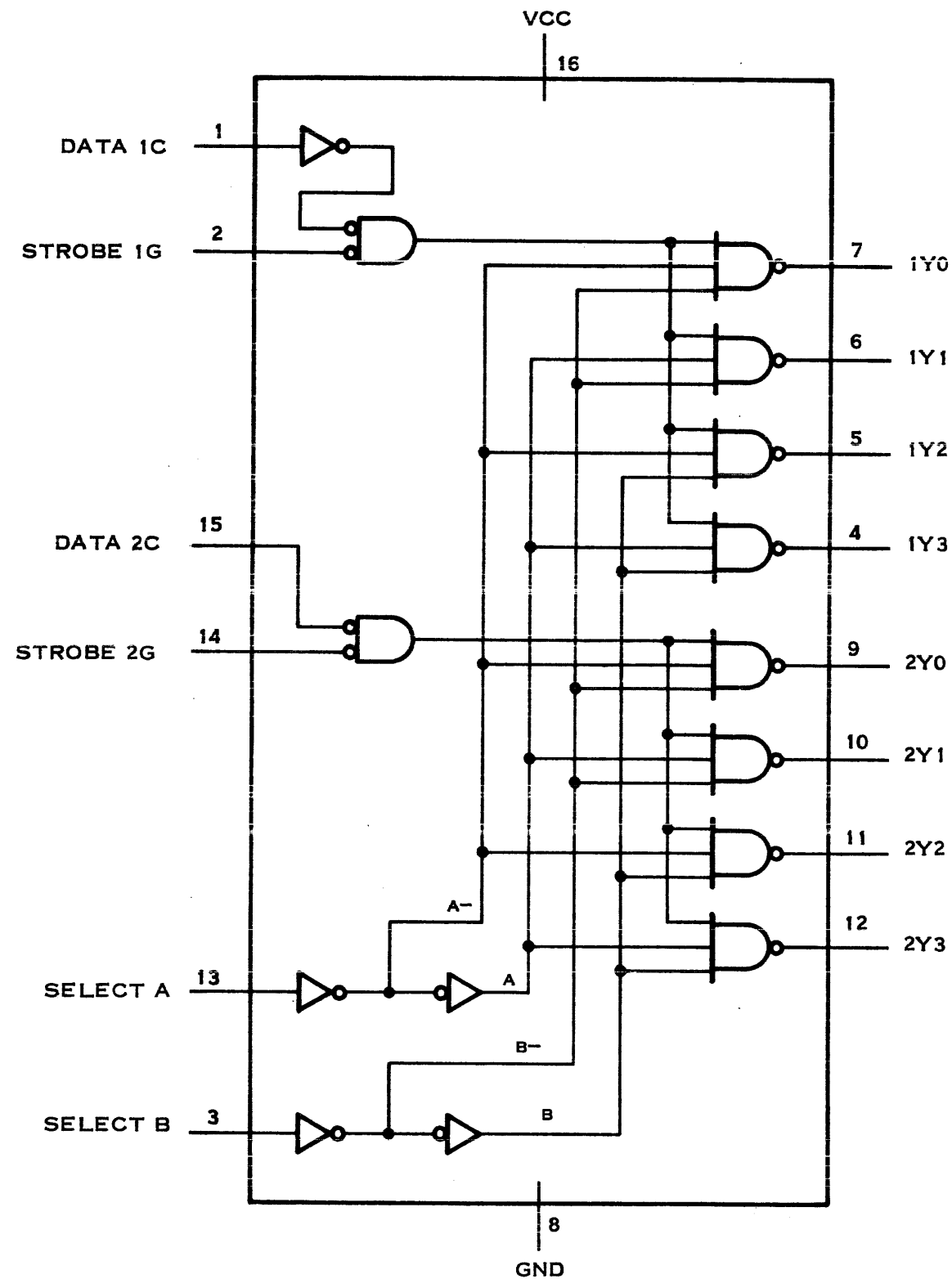


SN74154, SN74L154
4-LINE-TO-16-LINE
DECODER/DEMULTIPLEXER

FUNCTION TABLE SN74154, SN74L154

INPUTS					OUTPUTS																
G1	G2	D	C	B	A	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L	L	L	L	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	H	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	H	L	L	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H
L	L	L	H	L	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H
L	L	L	H	L	L	H	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H
L	L	L	H	L	L	L	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H
L	L	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H
L	L	L	H	H	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H
L	L	H	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
L	L	H	L	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
L	L	H	H	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
L	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
L	H	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
H	L	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
H	H	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

H = HIGH LEVEL
L = LOW LEVEL
X IRRELEVANT



SN74155, SN74LS155
 DUAL 2-LINE-TO-4-LINE DECODER/DEMULTIPLEXER
 (TOTEM POLE OUTPUTS)

FUNCTION TABLES SN74155, SN74LS155

2-LINE-TO-4-LINE DECODER
 OR 1-LINE-TO-4-LINE DEMULTIPLEXER

INPUTS				OUTPUTS			
SELECT		STROBE	DATA				
B	A	1G	1C	1Y0	1Y1	1Y2	1Y3
X	X	H	X	H	H	H	H
L	L	L	H	L	H	H	H
L	H	L	H	H	L	H	H
H	L	L	H	H	H	L	H
H	H	L	H	H	H	H	L
X	X	X	L	H	H	H	H

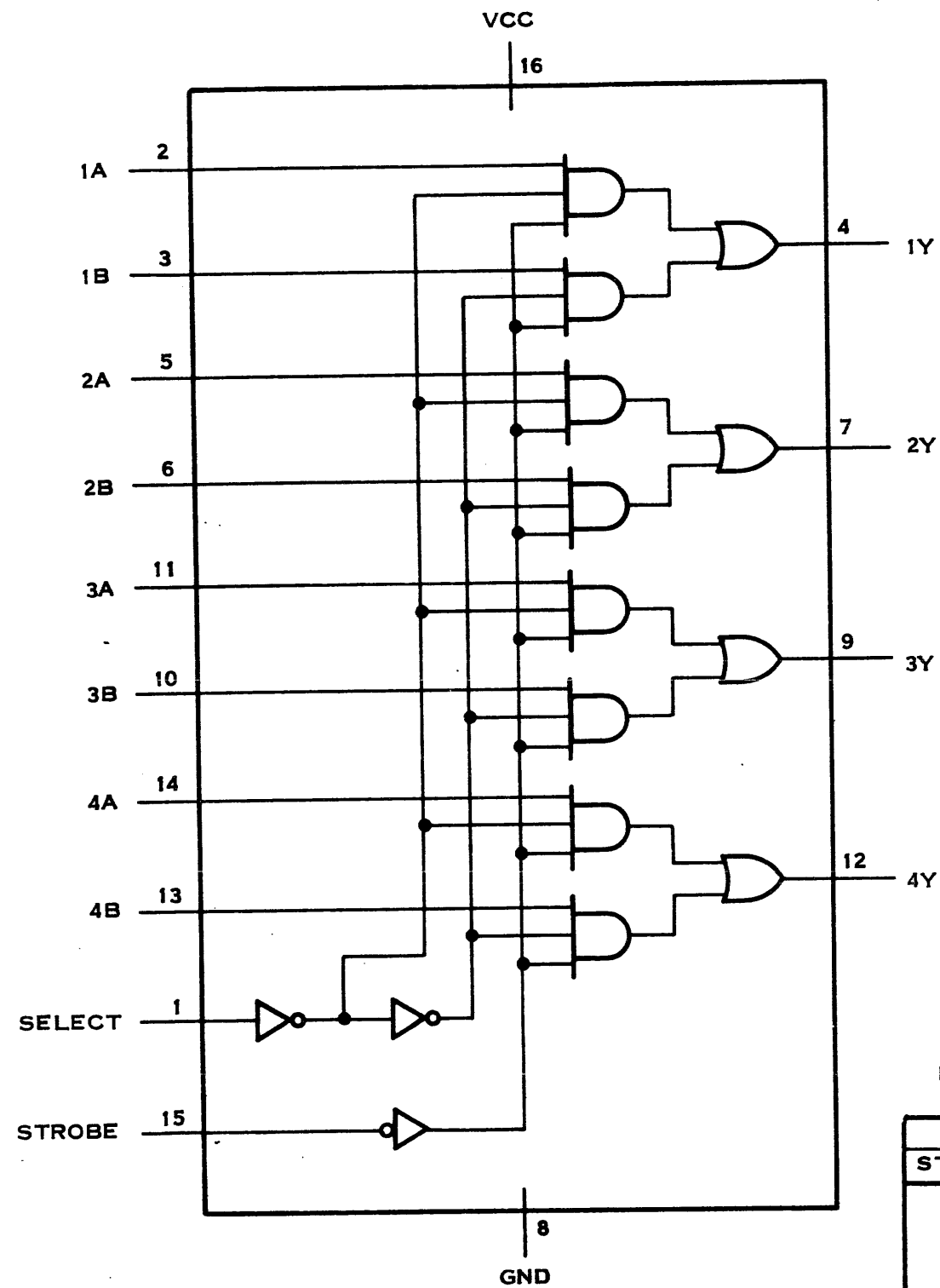
INPUTS				OUTPUTS			
SELECT		STROBE	DATA				
B	A	2G	2C	2Y0	2Y1	2Y2	2Y3
X	X	H	X	H	H	H	H
L	L	L	L	L	H	H	H
L	H	L	L	H	L	H	H
H	L	L	L	H	H	L	H
H	H	L	L	H	H	H	L
X	X	X	H	H	H	H	H

3-LINE-TO-8-LINE DECODER
 OR 1-LINE-TO-8-LINE DEMULTIPLEXER

INPUTS				OUTPUTS							
SELECT			STROBE OR DATA	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
C	B	A	G	2Y0	2Y1	2Y2	2Y3	1Y0	1Y1	1Y2	1Y3
X	X	X	H	H	H	H	H	H	H	H	H
L	L	L	L	L	H	H	H	H	H	H	H
L	L	H	L	H	L	H	H	H	H	H	H
L	H	L	L	H	H	L	H	H	H	H	H
L	H	H	L	H	H	H	L	H	H	H	H
H	L	L	L	H	H	H	H	L	H	H	H
H	L	H	L	H	H	H	H	H	L	H	H
H	H	L	L	H	H	H	H	H	H	L	H
H	H	H	L	H	H	H	H	H	H	H	L

C = INPUTS 1C AND 2C CONNECTED TOGETHER
 G = INPUTS 1G AND 2G CONNECTED TOGETHER
 H = HIGH LEVEL

L = LOW LEVEL
 X = IRRELEVANT



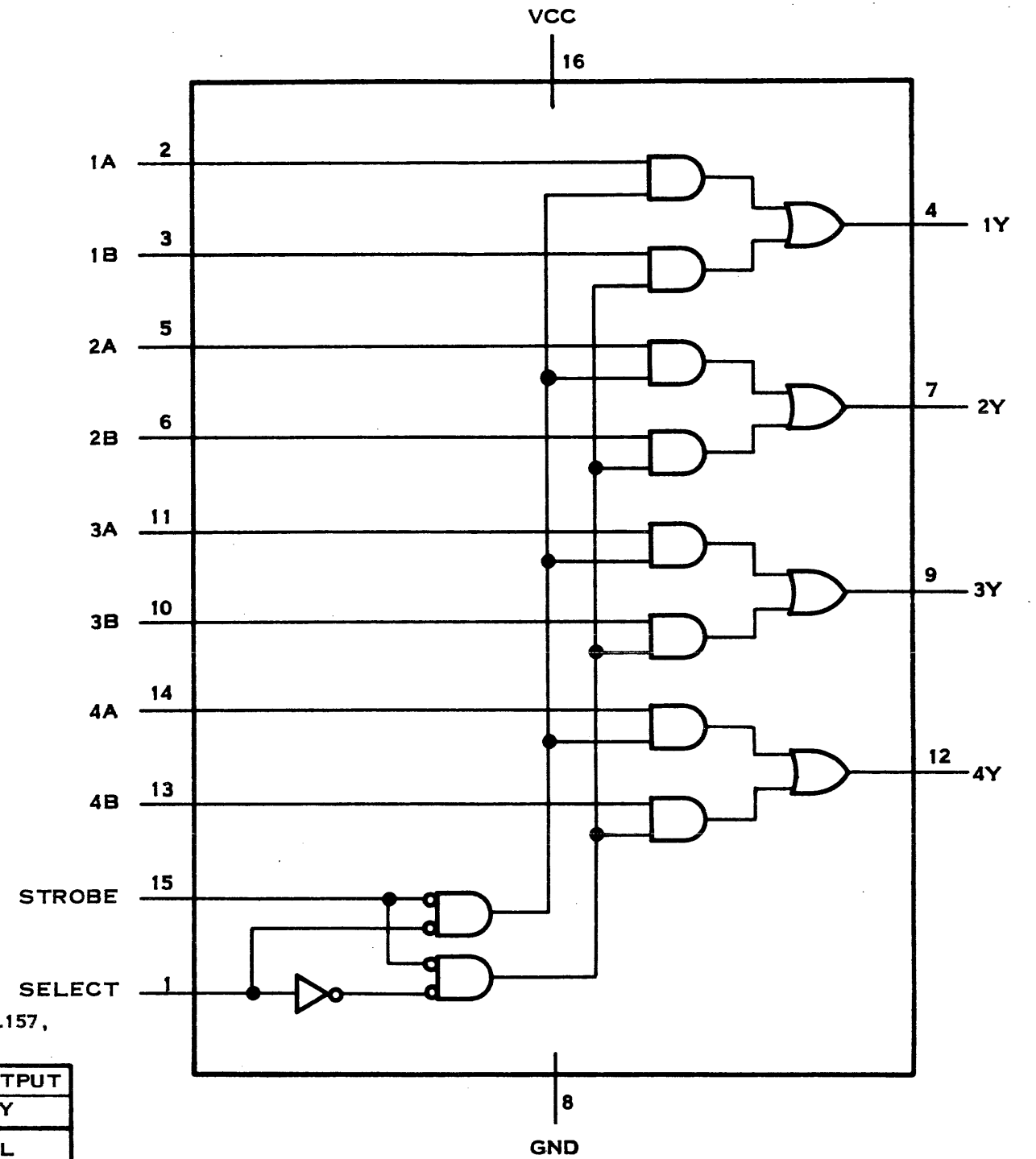
SN74157, SN74L157

QUADRUPLE 2-LINE-TO-1-LINE
DATA SELECTOR/MULTIPLEXER

FUNCTION TABLE SN74157, SN74L157,
SN74LS157, SN74S157

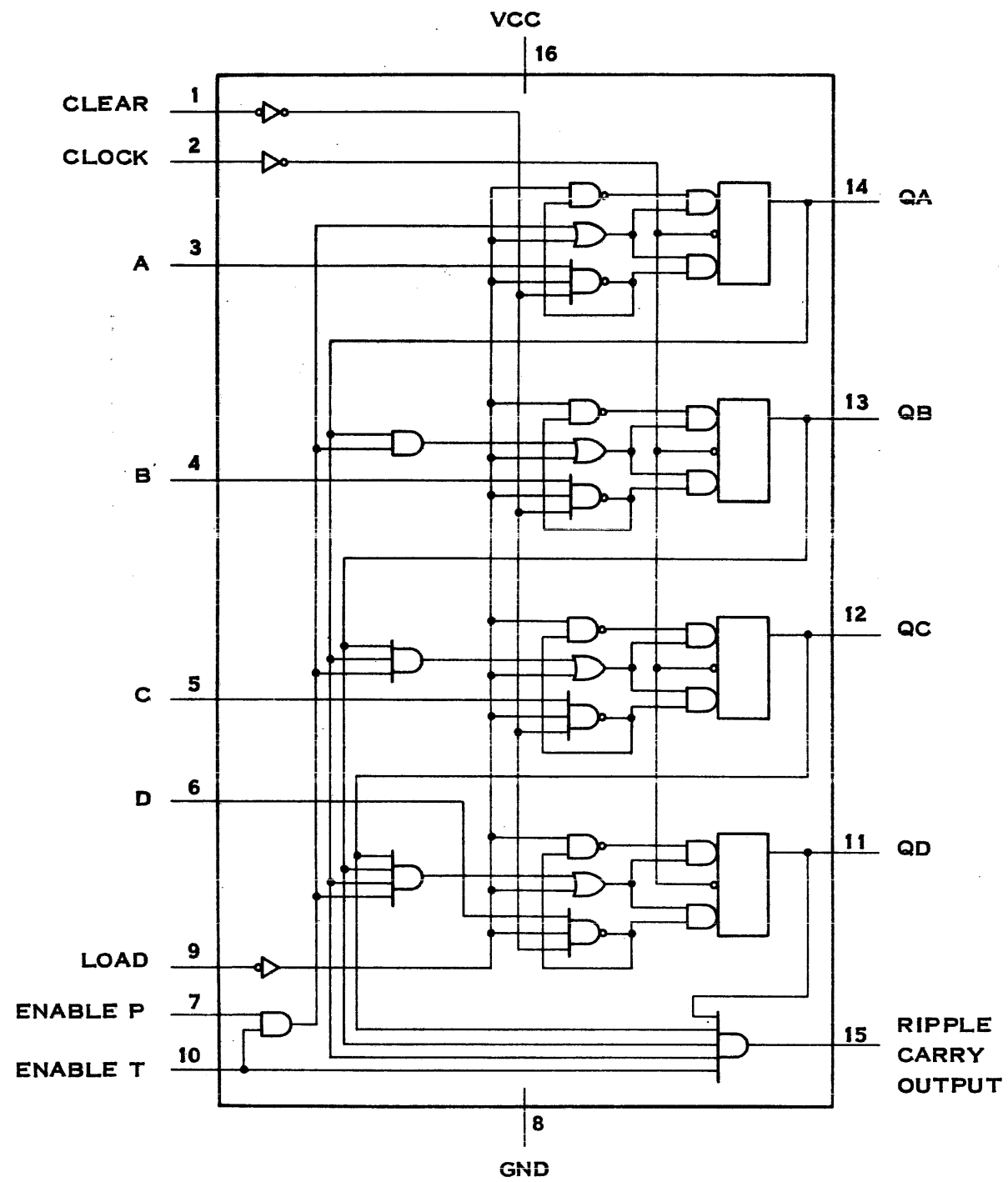
INPUTS				OUTPUT
STROBE	SELECT	A	B	Y
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT



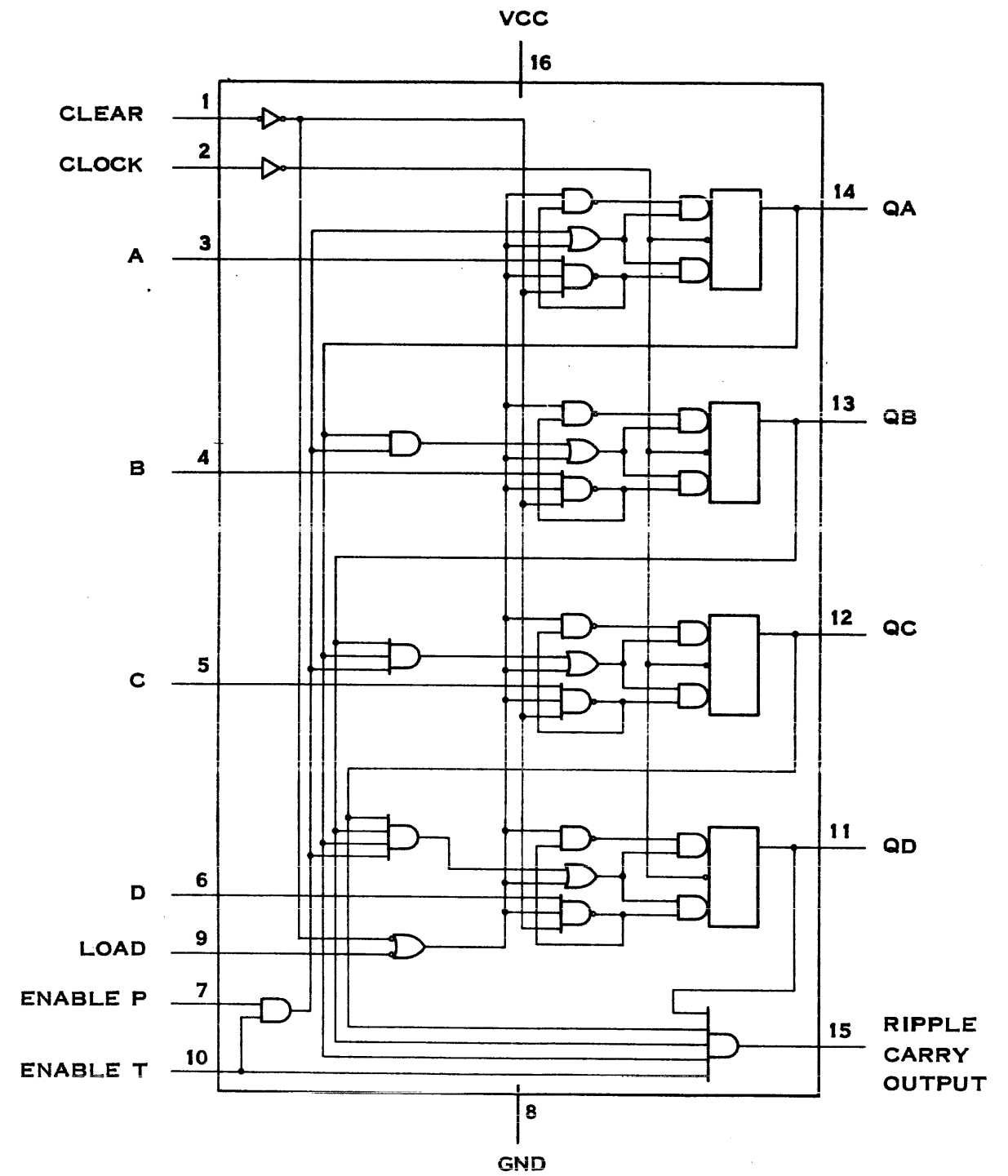
SN74LS157, SN74S157

QUADRUPLE 2-LINE-TO-1-LINE DATA
SELECTOR/MULTIPLEXER



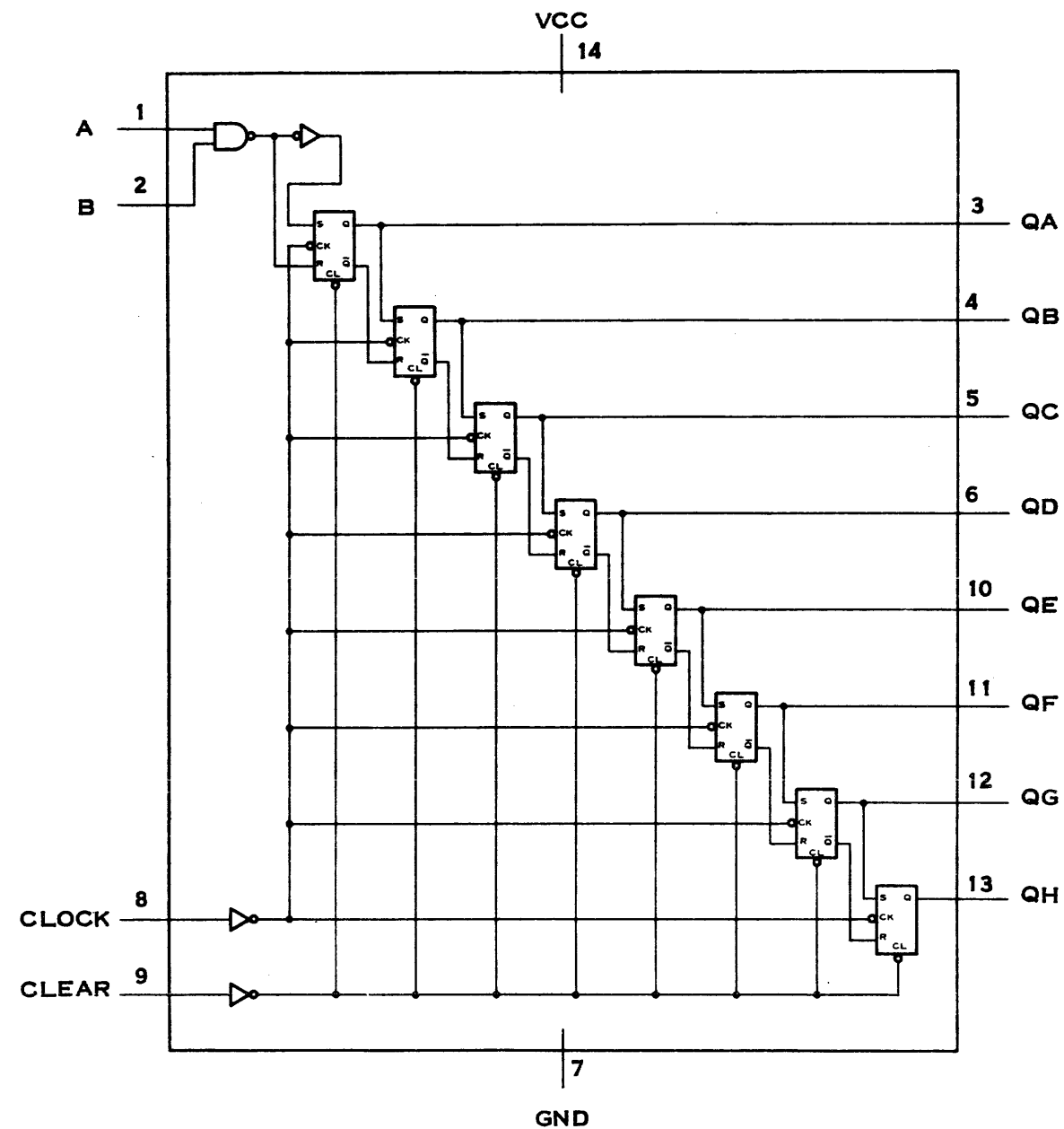
SN74161

SYNCHRONOUS BINARY COUNTER



SN74163

SYNCHRONOUS BINARY COUNTER



SN74164, SN74L164, SN74LS164

8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER

FUNCTION TABLE SN74164, SN74L164, SN74LS164

INPUTS				OUTPUTS		
CLEAR	CLOCK	A	B	Q _A	Q _B . . . Q _H	
L	X	X	X	L	L . . . L	
H	L	X	X	Q _{A0}	Q _{B0} . . . Q _{H0}	
H	↑	H	H	H	Q _{AN} . . . Q _{GN}	
H	↑	L	X	L	Q _{AN} . . . Q _{GN}	
H	↑	X	L	L	Q _{AN} . . . Q _{GN}	

H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

X = IRRELEVANT (ANY INPUT, INCLUDING TRANSITIONS)

↑ = TRANSITION FROM LOW TO HIGH LEVEL

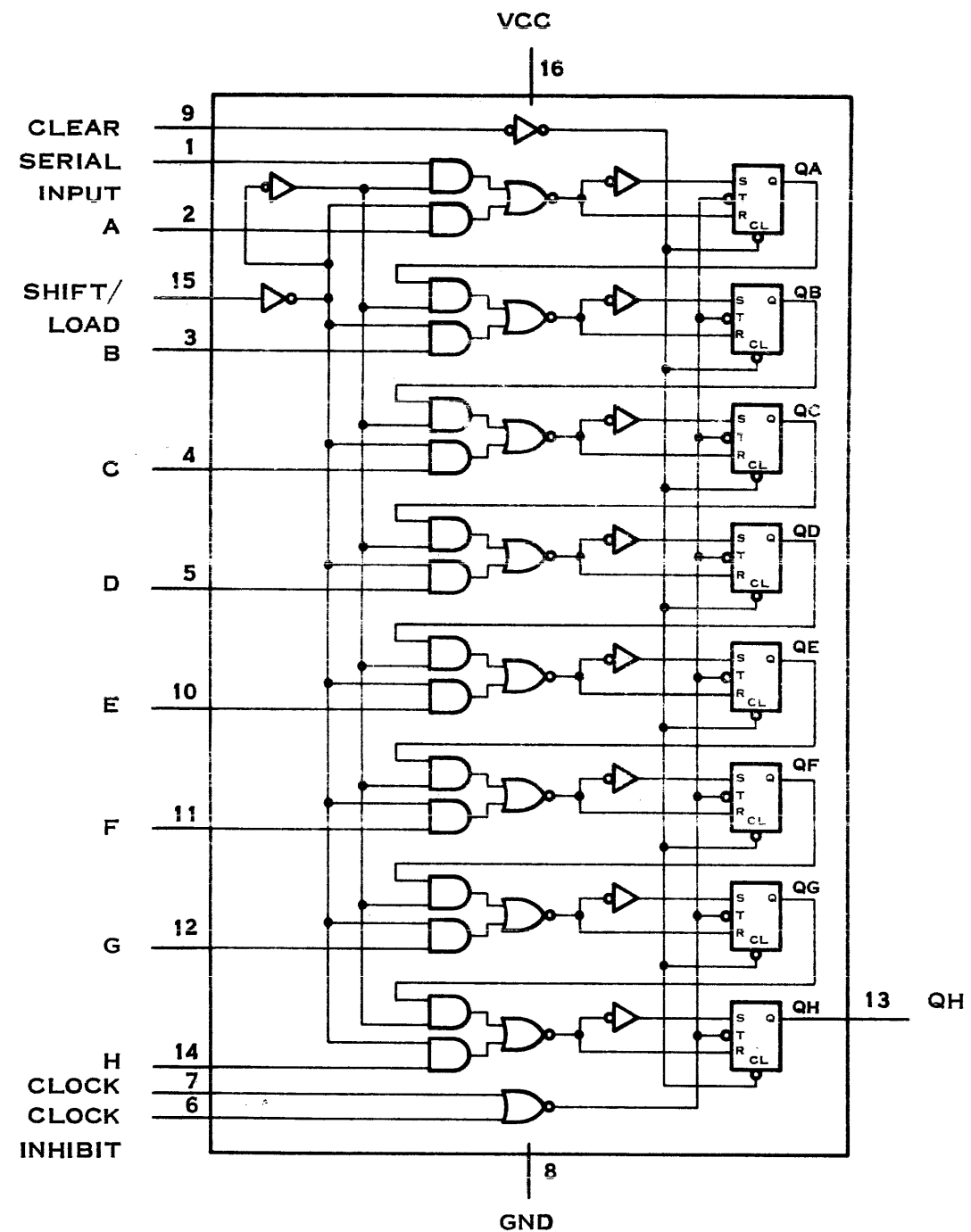
Q_{A0}, Q_{B0}, Q_{H0} = THE LEVEL Q_A, Q_B, OR Q_H, RESPECTIVELY,

BEFORE THE INDICATED STEADY-STATE

INPUT CONDITIONS WERE ESTABLISHED.

Q_{AN}, Q_{GN} = THE LEVEL OF Q_A OR Q_G BEFORE THE MOST-RECENT

↑ TRANSITION OF THE CLOCK, INDICATES A ONE-BIT SHIFT



SN74166

8-BIT SHIFT REGISTER

FUNCTION TABLE SN74166

CLEAR	SHIFT/ LOAD	CLOCK INHIBIT	CLOCK	SERIAL	INPUTS	INTERNAL OUTPUTS		OUTPUT
					PARALLEL A . . . H	QA	QB	QH
L	X	X	X	X	X	L	L	L
H	X	L	L	X	X	QA0	QB0	QH0
H	L	L	↑	X	a . . . h	a	b	h
H	H	L	↑	H	X	H	QAN	QGN
H	H	L	↑	L	X	L	QAN	QGN
H	X	H	↑	X	X	QA0	QB0	QH0

H = HIGH LEVEL (STEADY STATE)

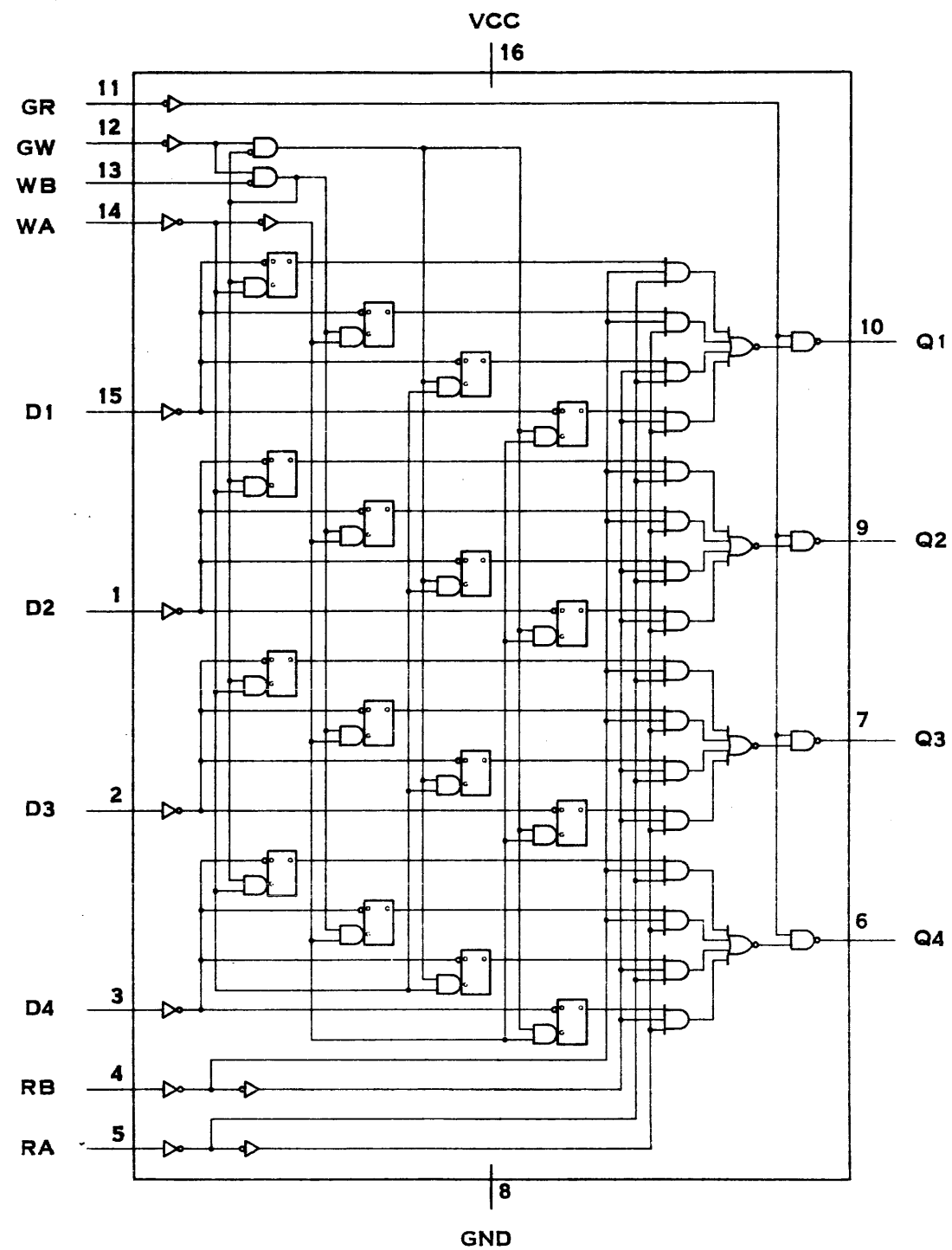
L = LOW LEVEL (STEADY STATE)

X = IRRELEVANT (ANY INPUT, INCLUDING TRANSITIONS)

↑ = TRANSITION FROM LOW TO HIGH LEVEL

a . . . h = THE LEVEL OF STEADY-STATE INPUT AT INPUTS A THRU H, RESPECTIVELY,
QA0, QB0, QH0 = THE LEVEL OF QA, QB, OR QH, RESPECTIVELY, BEFORE THE INDICATED
STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED

QAN, QGN = THE LEVEL OF QA OR QG, RESPECTIVELY, BEFORE THE MOST-RECENT
↑ TRANSITION OF THE CLOCK.



SN74170

4-BY-4 REGISTER FILES WITH
OPEN-COLLECTOR OUTPUTS

FUNCTION TABLE SN74170

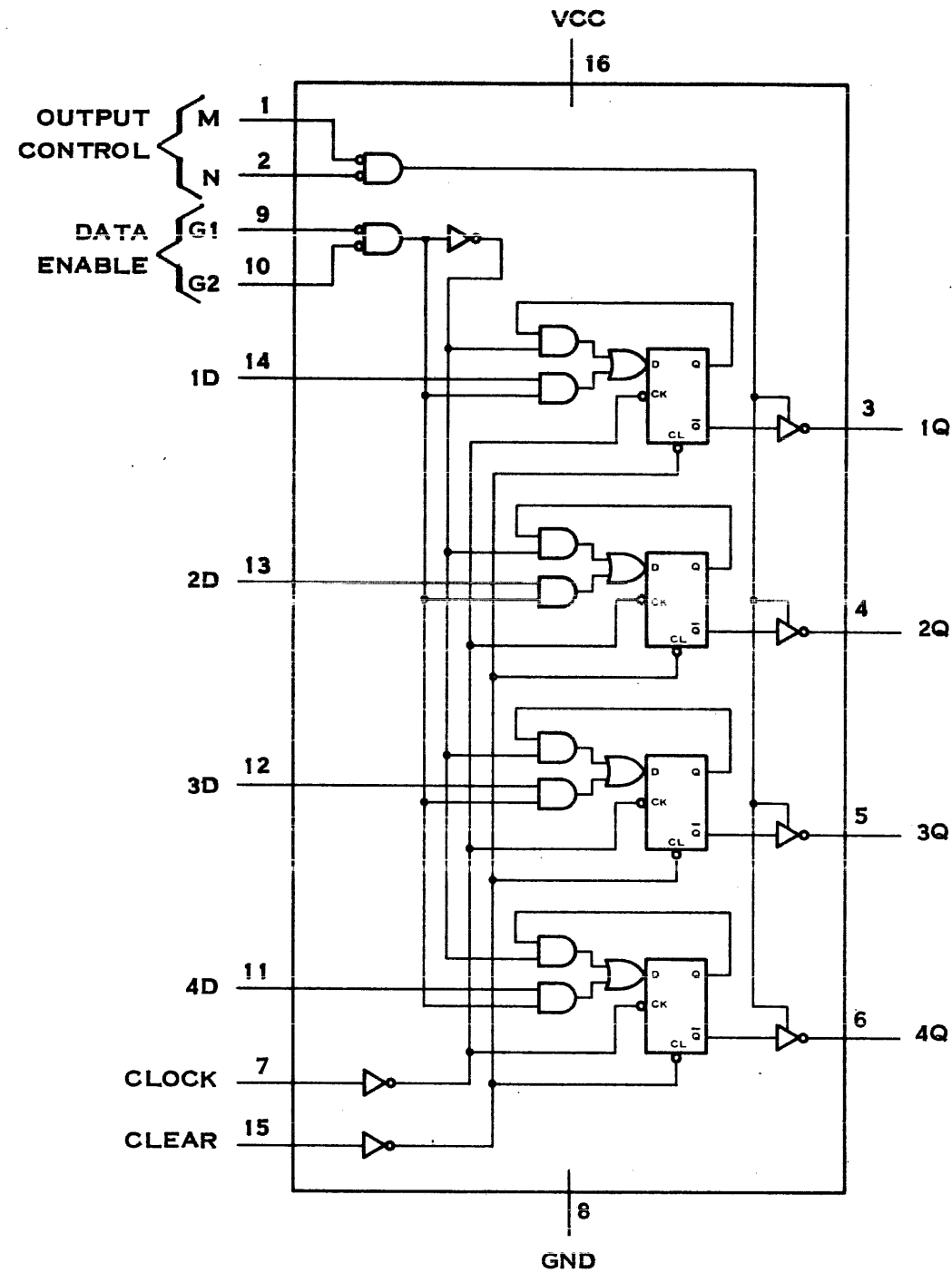
READ TABLE (SEE NOTES A AND D)

READ INPUTS			OUTPUTS			
RB	RA	GR	Q1	Q2	Q3	Q4
L	L	L	W0B1	W0B2	W0B3	W0B4
L	H	L	W1B1	W1B2	W1B3	W1B4
H	L	L	W2B1	W2B2	W2B3	W2B4
H	H	L	W3B1	W3B2	W3B3	W3B4
X	X	H	H	H	H	H

WRITE TABLE (SEE NOTES A, B, AND C)

WRITE INPUTS			WORD			
WB	WA	GW	0	1	2	3
L	L	L	Q = D	Q ₀	Q ₀	Q ₀
L	H	L	Q ₀	Q = D	Q ₀	Q ₀
H	L	L	Q ₀	Q ₀	Q = D	Q ₀
H	H	L	Q ₀	Q ₀	Q ₀	Q = D
X	X	H	Q ₀	Q ₀	Q ₀	Q ₀

- NOTES: A. H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT
- B. (Q = D) = THE FOUR SELECTED INTERNAL FLIP-FLOP OUTPUTS WILL ASSUME THE STATES APPLIED TO THE FOUR EXTERNAL DATA INPUTS
- C. Q₀ = THE LEVEL OF Q BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED.
- D. W0B1 = THE FIRST BIT OF WORD 0, ETC.



SN74173

4-BIT D-TYPE REGISTER WITH
3-STATE OUTPUTS

FUNCTION TABLE SN74173

CLEAR	CLOCK	DATA ENABLE		DATA D	OUTPUT Q
		G1	G2		
H	X	X	X	X	L
L	L	X	X	X	Q ₀
L	↑	H	X	X	Q ₀
L	↑	X	H	X	Q ₀
L	↑	L	L	L	L
L	↑	L	L	H	H

WHEN EITHER M OR N (OR BOTH) IS (ARE) HIGH THE OUTPUT IS DISABLED TO THE HIGH-IMPEDANCE STATE; HOWEVER SEQUENTIAL OPERATION OF THE FLIP-FLOPS IS NOT AFFECTED.

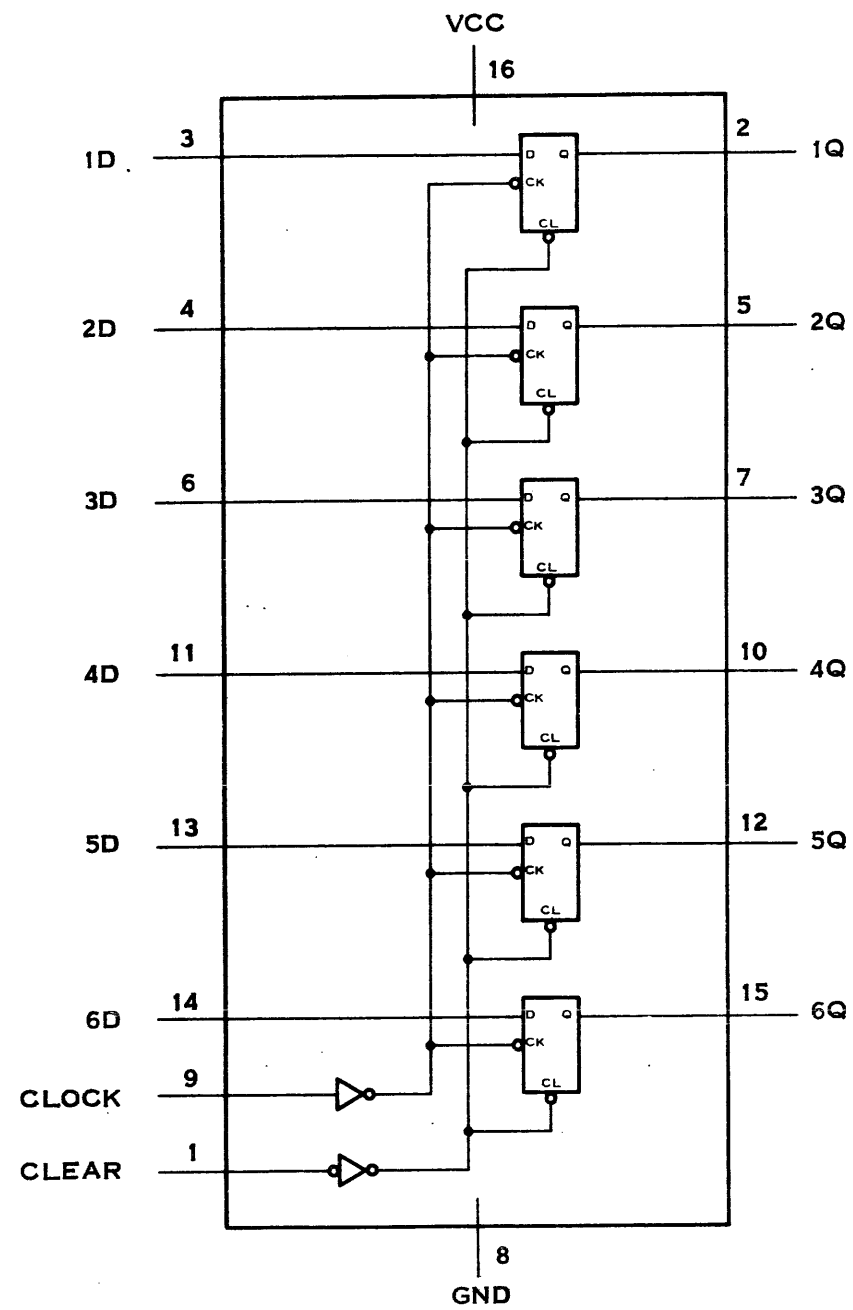
H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

↑ = LOW-TO-HIGH-LEVEL TRANSITION

X = IRRELEVANT (ANY INPUT INCLUDING TRANSITIONS)

Q₀ = THE LEVEL OF Q BEFORE THE INDICATED STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED



SN74174, SN74LS174, SN74S174
HEX D-TYPE FLIP-FLOPS WITH CLEAR

FUNCTION TABLE
SN74174, SN74LS174, SN74S174
(EACH FLIP-FLOP)

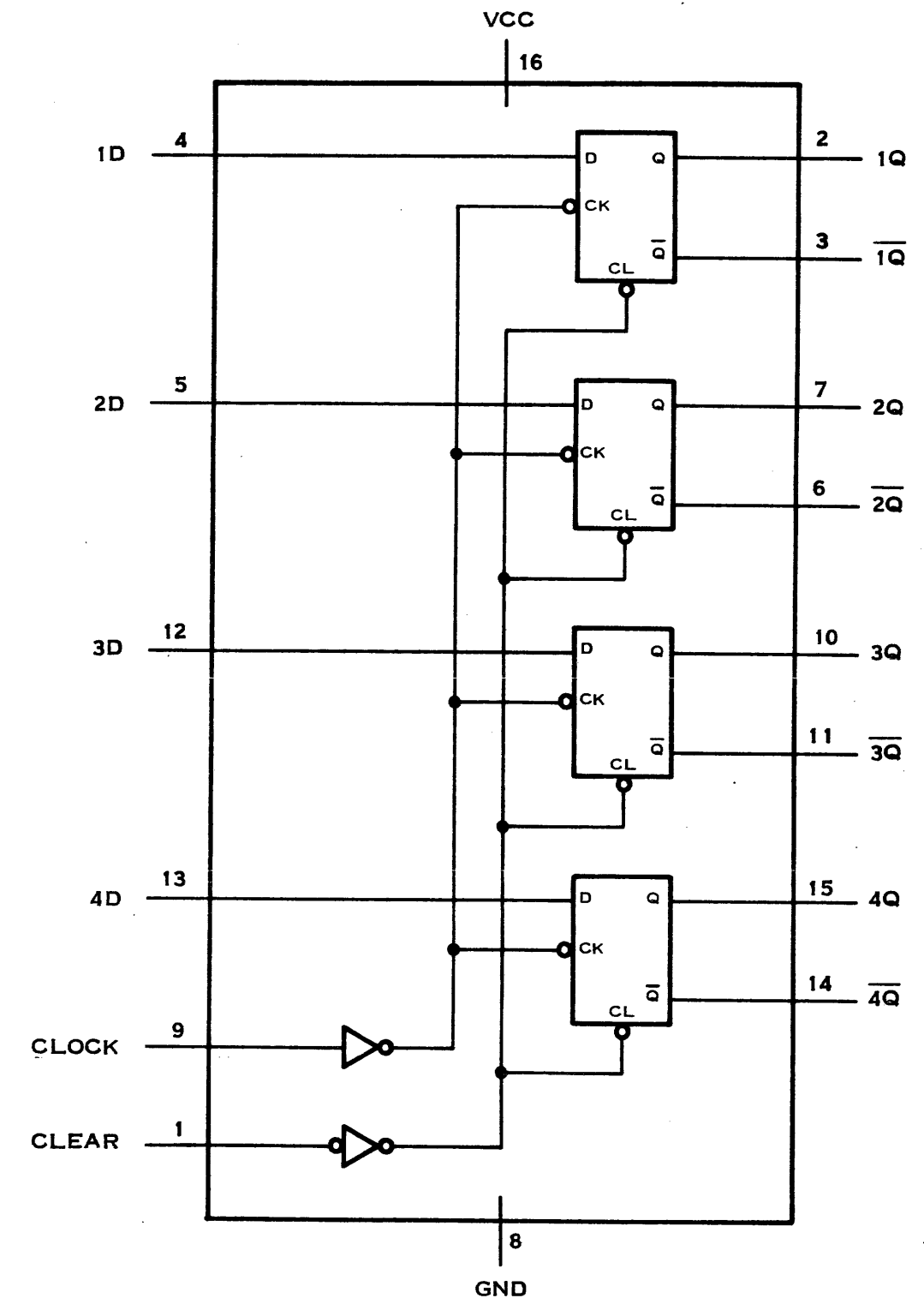
INPUTS			OUTPUTS
CLEAR	CLOCK	D	Q
L	X	X	L
H	↑	H	H
H	↑	L	L
H	L	X	Q ₀

H = HIGH LEVEL (STEADY STATE)
L = LOW LEVEL (STEADY STATE)
X = IRRELEVANT
↑ = TRANSITION FROM LOW TO HIGH LEVEL
Q₀ = THE LEVEL OF Q BEFORE THE INDICATED STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED.

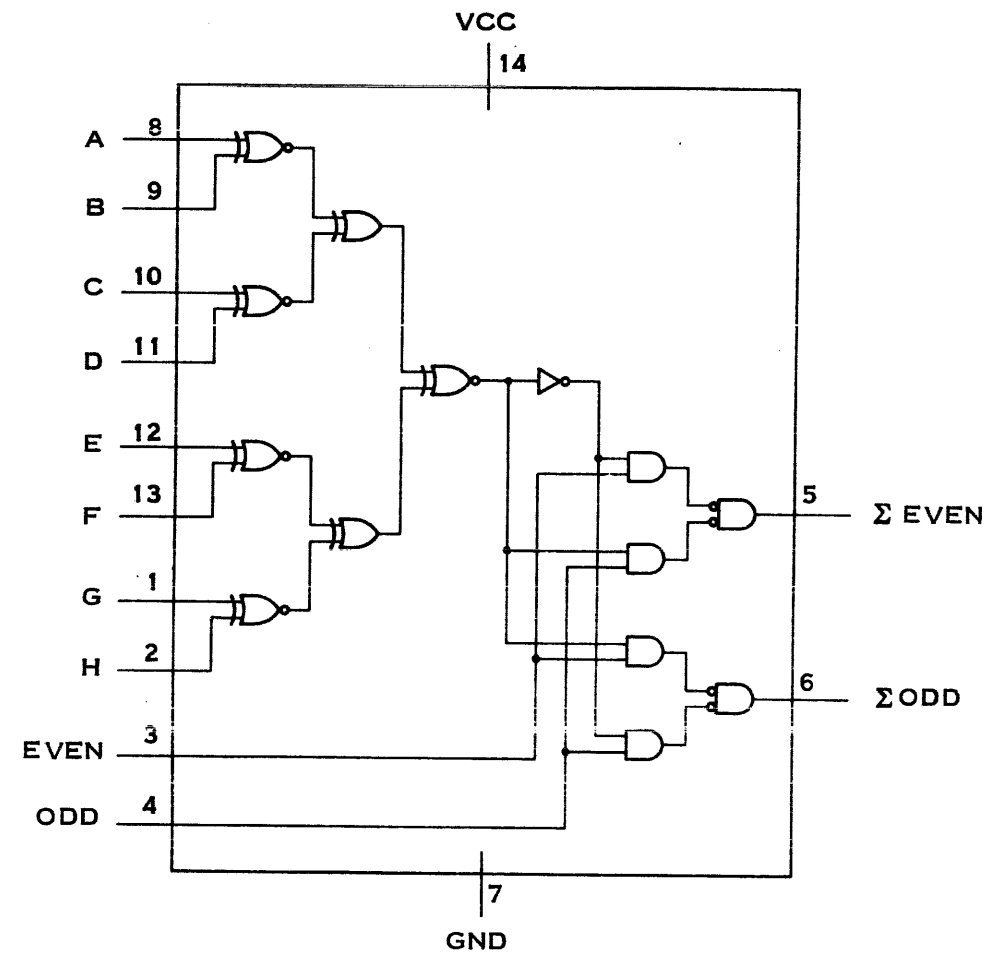
FUNCTION TABLE SN74175,
SN74LS175, SN74S175
(EACH FLIP-FLOP)

INPUTS			OUTPUTS	
CLEAR	CLOCK	D	Q	\overline{Q}
L	X	X	L	H
H	↑	H	H	L
H	↑	L	L	H
H	L	X	Q ₀	$\overline{Q_0}$

H = HIGH LEVEL (STEADY STATE)
L = LOW LEVEL (STEADY STATE)
X = IRRELEVANT
↑ = TRANSITION FROM LOW TO HIGH LEVEL
Q₀ = THE LEVEL OF Q BEFORE THE INDICATED STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED.



SN74175, SN74LS175, SN74S175
QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR

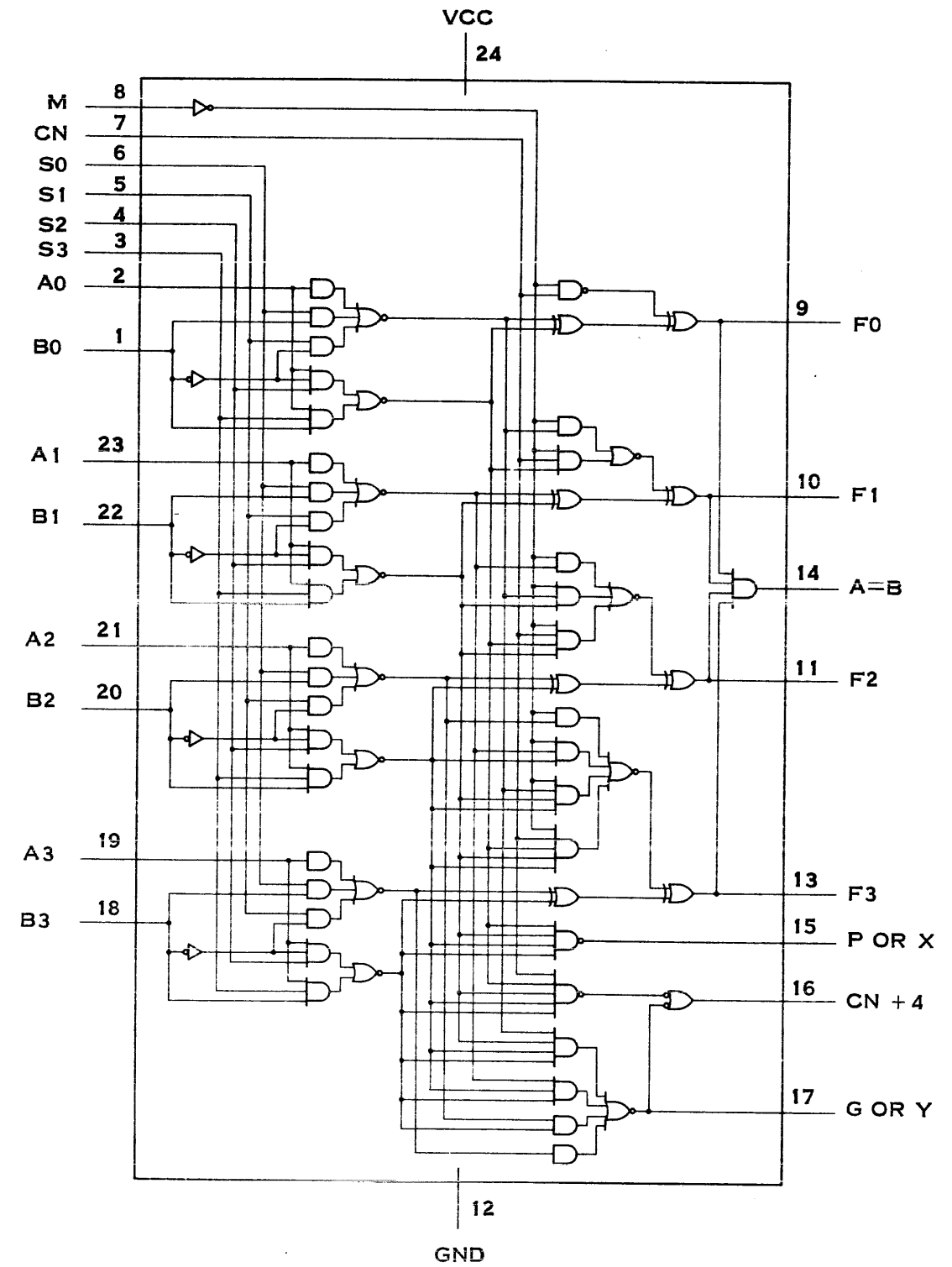


SN74180
ARITHMETIC LOGIC UNITS/FUNCTION GENERATOR

FUNCTION TABLE SN74180

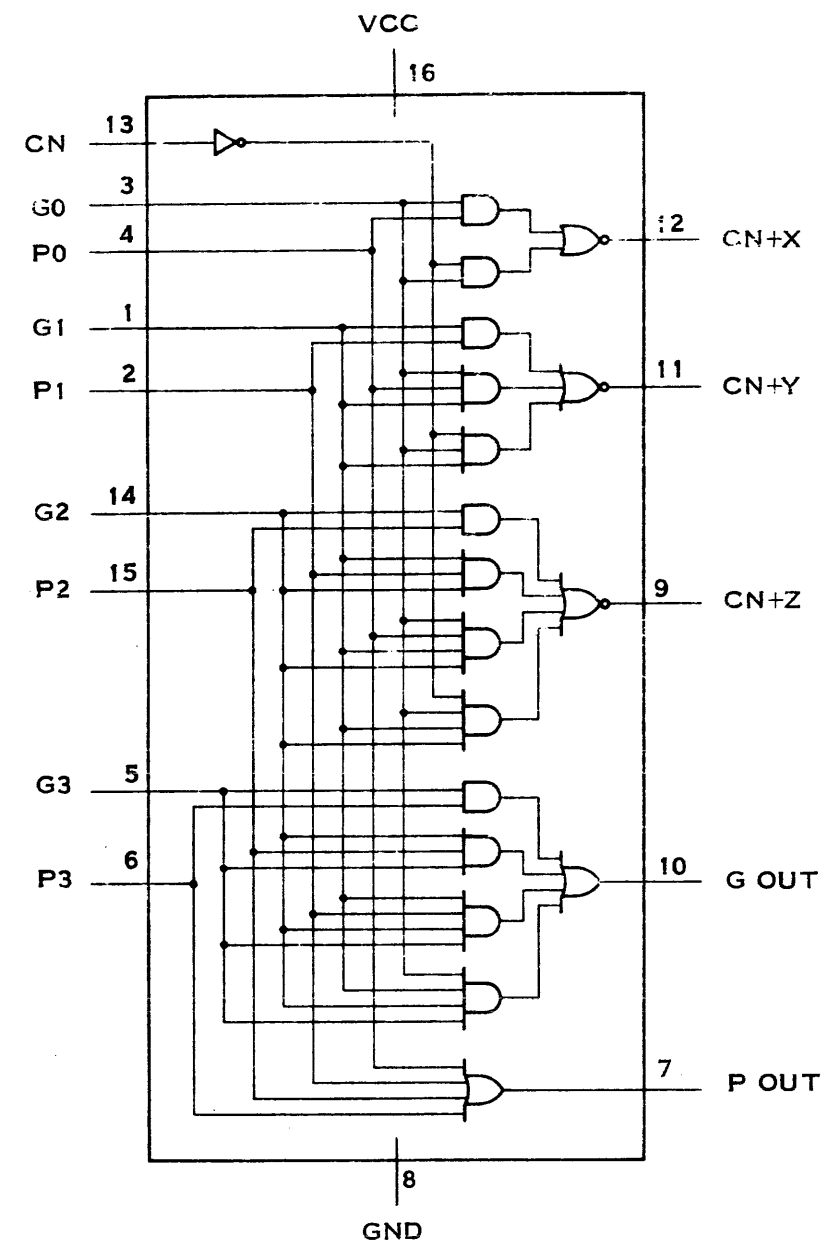
INPUTS			OUTPUTS	
Σ OF H'S AT A THRU H	EVEN	ODD	Σ EVEN	Σ ODD
EVEN	H	L	H	L
ODD	H	L	L	H
EVEN	L	H	L	H
ODD	L	H	H	L
X	H	H	L	H
X	L	L	H	H

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT



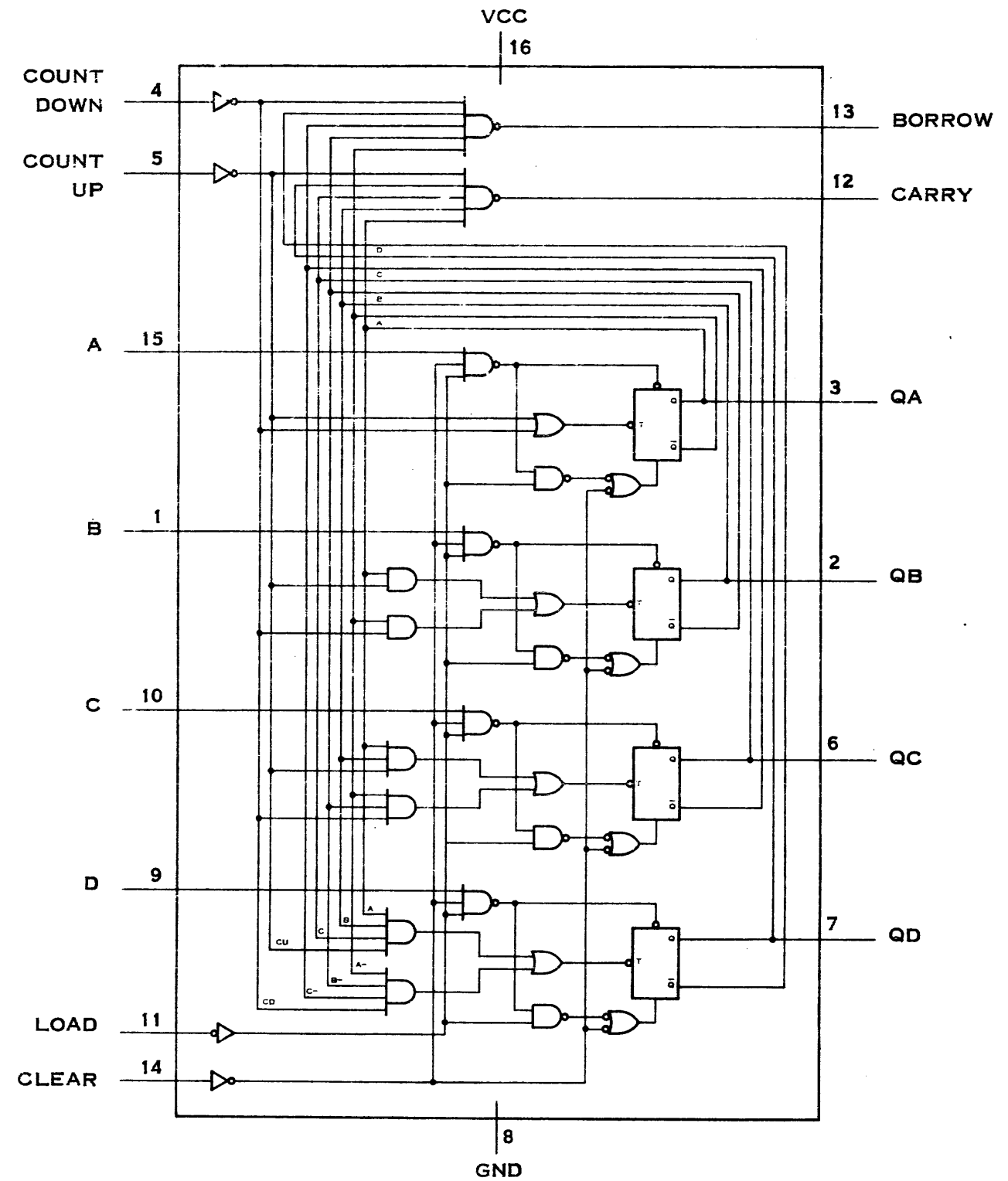
SN74181, SN74LS181, SN74S181

ARITHMETIC LOGIC UNITS/FUNCTION GENERATOR



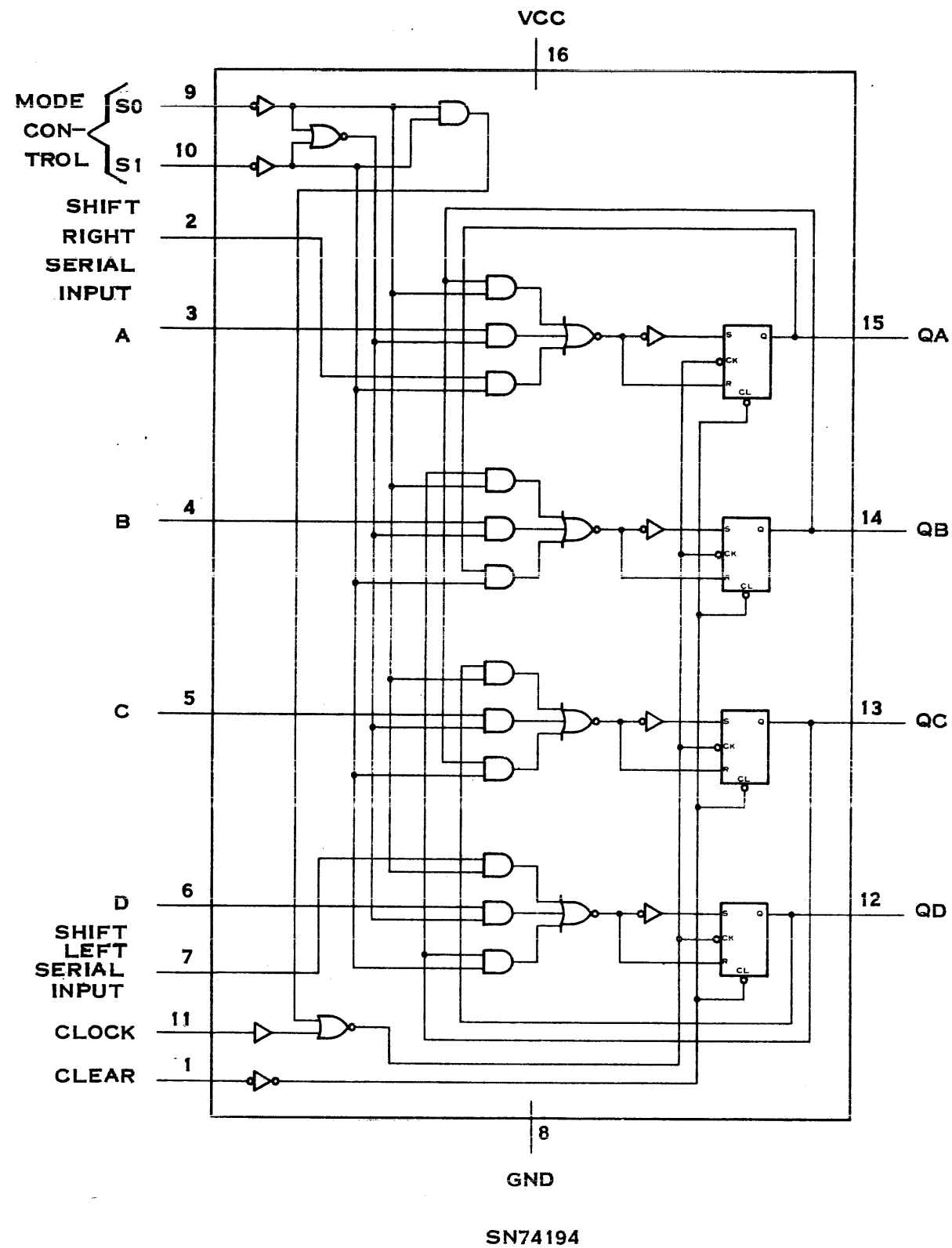
SN74182

LOOK-AHEAD CARRY GENERATOR



SN74193, SN74L193, SN74LS193

SYNCHRONOUS 4-BIT UP/DOWN COUNTERS
(DUAL CLOCK WITH CLEAR)



4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER

FUNCTION TABLE SN74194, SN74LS194, SN74S194

CLEAR	MODE		CLOCK	SERIAL		PARALLEL				OUTPUTS			
	S ₁	S ₀		LEFT	RIGHT	A	B	C	D	Q _A	Q _B	Q _C	Q _D
										Q _{A0}	Q _{B0}	Q _{C0}	Q _{D0}
L	X	X	X	X	X	X	X	X	X	L	L	L	L
H	X	X	L	X	X	X	X	X	X	Q _{A0}	Q _{B0}	Q _{C0}	Q _{D0}
H	H	H	↑	X	X	a	b	c	d	a	b	c	d
H	L	H	↑	X	H	X	X	X	X	H	Q _{An}	Q _{Bn}	Q _{Cn}
H	L	H	↓	X	L	X	X	X	X	L	Q _{An}	Q _{Bn}	Q _{Cn}
H	H	L	↓	H	X	X	X	X	X	Q _{Bn}	Q _{Cn}	Q _{Dn}	H
H	H	L	↑	L	X	X	X	X	X	Q _{Bn}	Q _{Cn}	Q _{Dn}	L
H	L	L	X	X	X	X	X	X	X	Q _{A0}	Q _{B0}	Q _{C0}	Q _{D0}

H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

X = IRRELEVANT (ANY INPUT, INCLUDING TRANSITIONS)

↑ = TRANSITION FROM LOW TO HIGH LEVEL

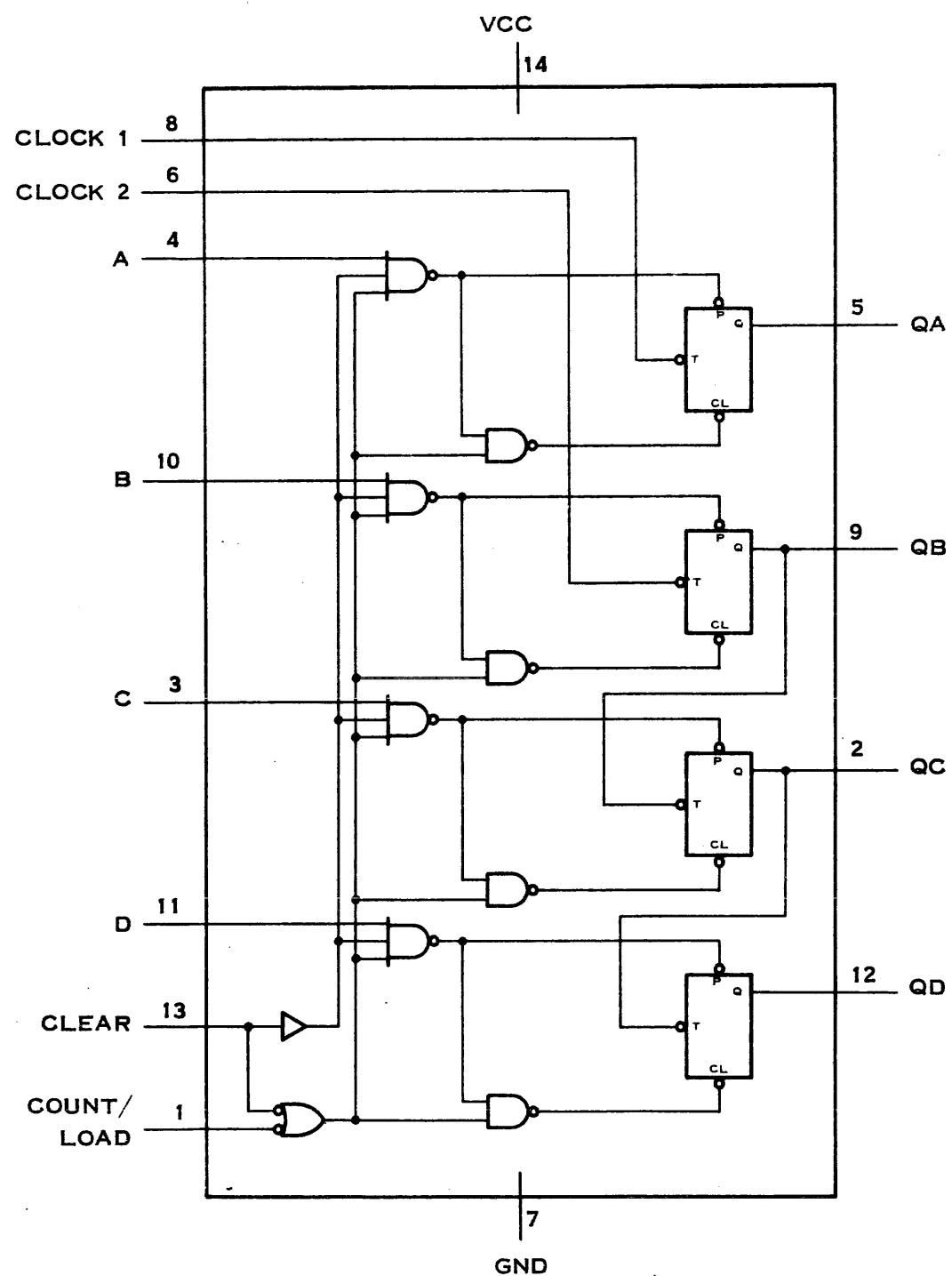
a, b, c, d, = THE LEVEL OF STEADY-STATE INPUT AT INPUT A, B, C, OR D, RESPECTIVELY

Q_{A0}, Q_{B0}, Q_{C0}, Q_{D0} = THE LEVEL OF Q_A, Q_B, Q_C, OR Q_D, RESPECTIVELY, BEFORE THE

INDICATED STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED

Q_{An}, Q_{Bn}, Q_{Cn}, Q_{Dn} = THE LEVEL OF Q_A, Q_B, Q_C, Q_D, RESPECTIVELY, BEFORE THE MOST

↑ TRANSITION OF THE CLOCK.



SN74197, SN74LS197

50/30-MHZ PRESETABLE DECADE OR
BINARY COUNTER/LATCH

FUNCTION TABLE SN74197, SN74LS197
(SEE NOTE A)

COUNT	OUTPUT			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H
10	H	L	H	L
11	H	L	H	H
12	H	H	L	L
13	H	H	L	H
14	H	H	H	L
15	H	H	H	H

H = HIGH LEVEL

L = LOW LEVEL

NOTE A: OUTPUT Q_A CONNECTED
TO CLOCK-2 INPUT

FUNCTION TABLE
SN74221, SN74LS221
(EACH MONOSTABLE)

INPUTS			OUTPUTS	
CLEAR	A	B	Q	\bar{Q}
L	X	X	L	H
X	H	X	L	H
X	X	L	L	H
H	L		\uparrow	\downarrow
H		H	\downarrow	\uparrow

H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

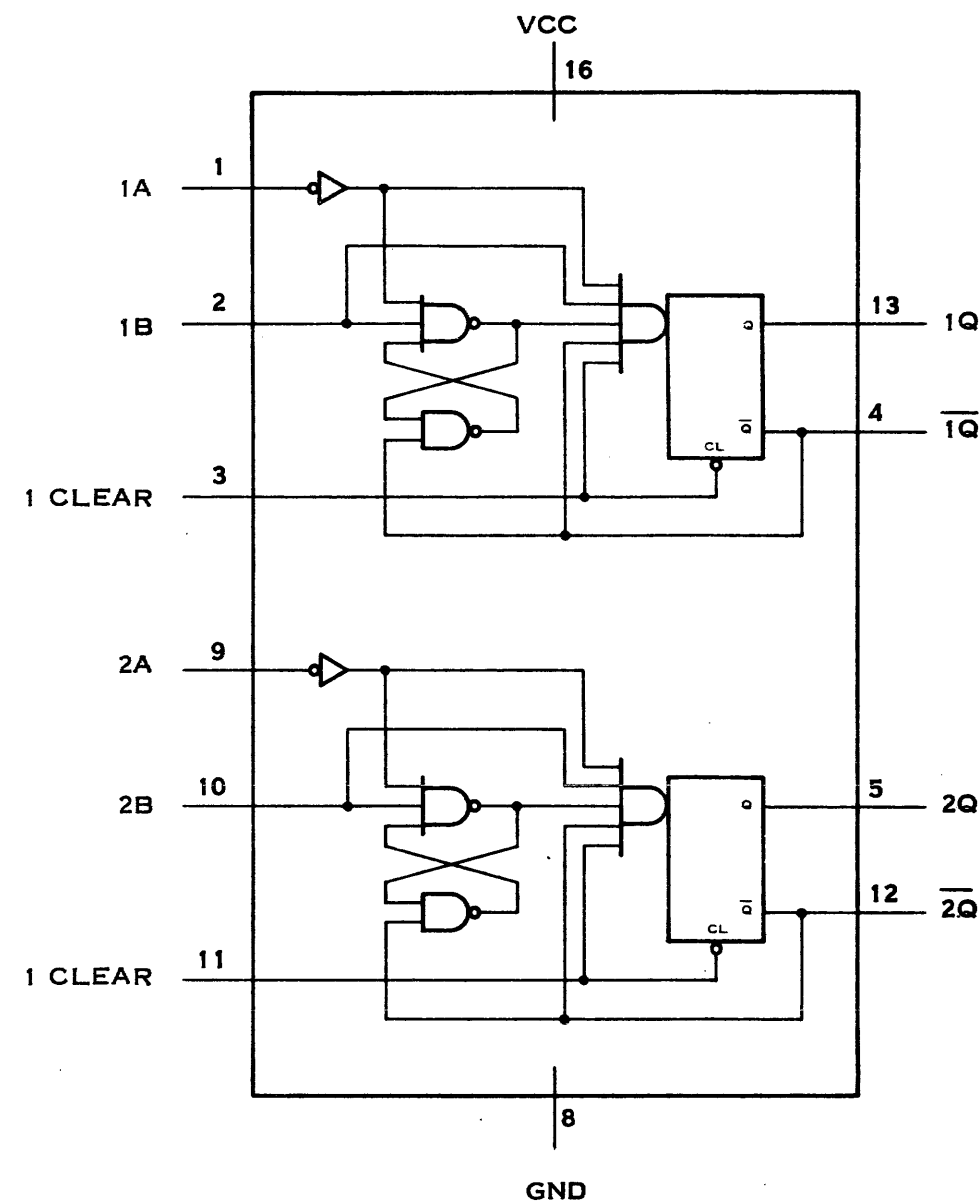
| = TRANSITION FROM LOW TO HIGH
LEVEL

\downarrow = TRANSITION FROM HIGH TO
LOW LEVEL

\uparrow = ONE HIGH-LEVEL PULSE

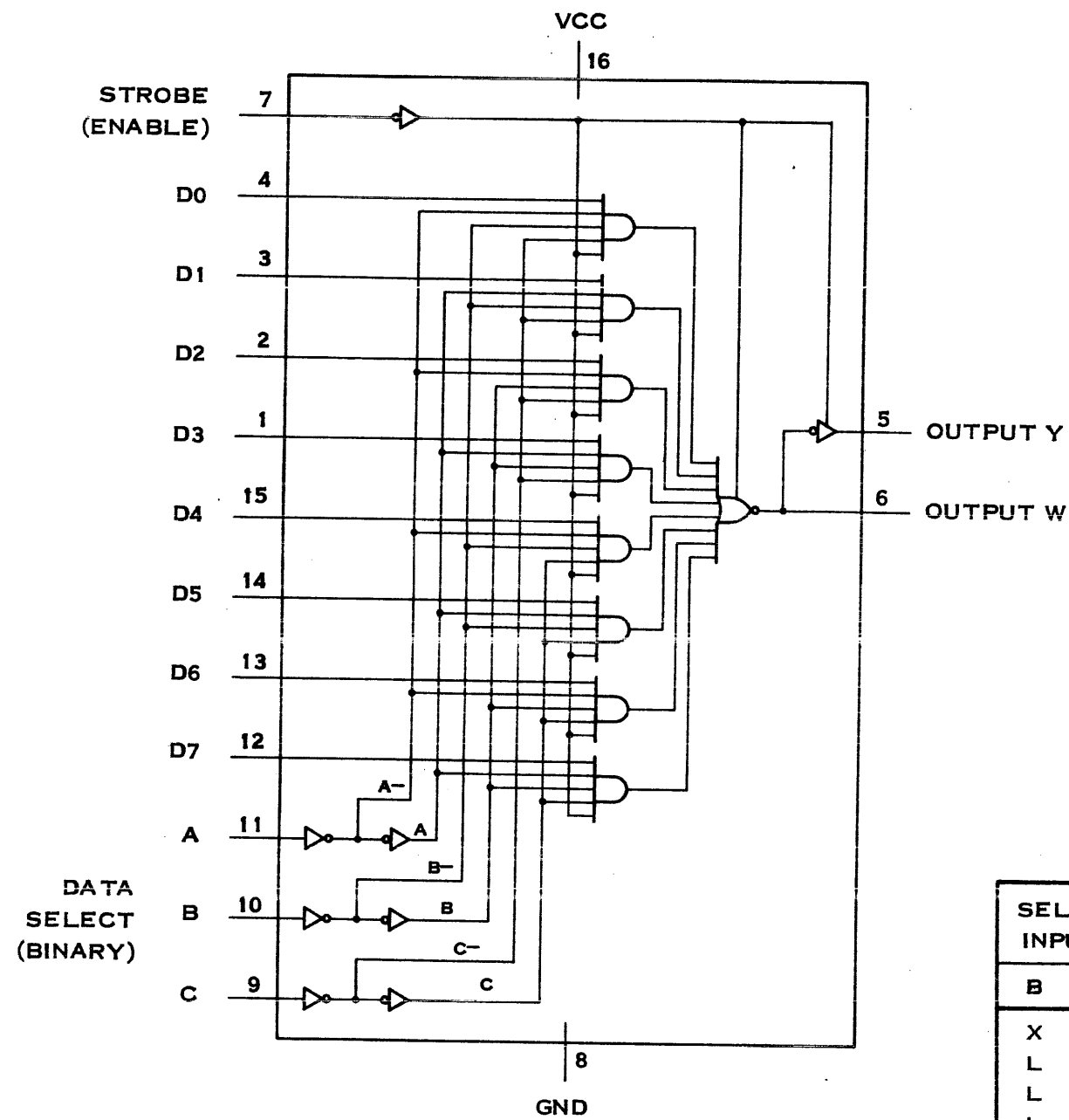
\downarrow = ONE LOW-LEVEL PULSE

X = IRRELEVANT



SN74221, SN74LS221

DUAL MONOSTABLE MULTIVIBRATORS
WITH SCHMITT-TRIGGER INPUTS



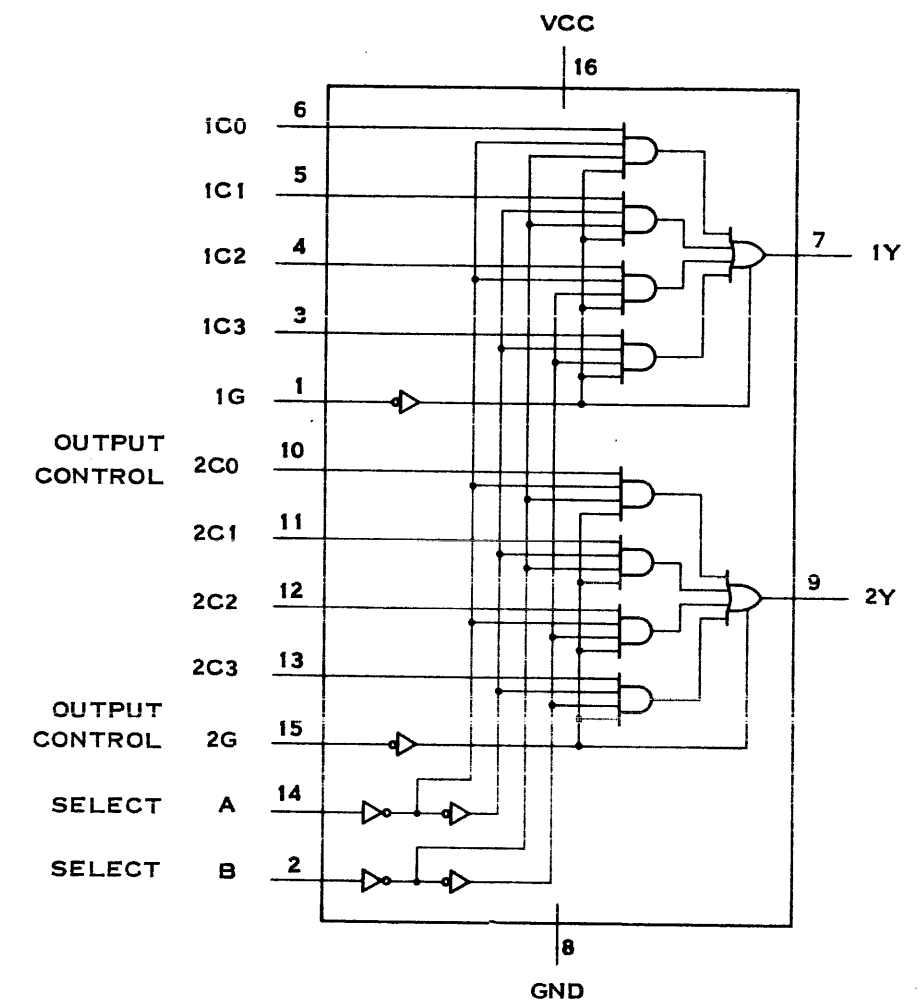
SN74251, SN74LS251, SN74S251

DATA SELECTOR/MULTIPLEXER WITH 3-STATE OUTPUTS

FUNCTION TABLE SN74251, SN74LS251, SN74S251

INPUTS				OUTPUTS	
SELECT			STROBE S	Y	W
C	B	A			
X	X	X	H	Z	Z
L	L	L	L	D0	$\overline{D0}$
L	L	H	L	D1	$\overline{D1}$
L	H	L	L	D2	$\overline{D2}$
L	H	H	L	D3	$\overline{D3}$
H	L	L	L	D4	$\overline{D4}$
H	L	H	L	D5	$\overline{D5}$
H	H	L	L	D6	$\overline{D6}$
H	H	H	L	D7	$\overline{D7}$

H = HIGH LOGIC LEVEL
 L = LOW LOGIC LEVEL
 X = IRRELEVANT
 Z = HIGH IMPEDANCE (OFF)
 D0, D1... D7 = THE LEVEL OF THE RESPECTIVE D INPUT



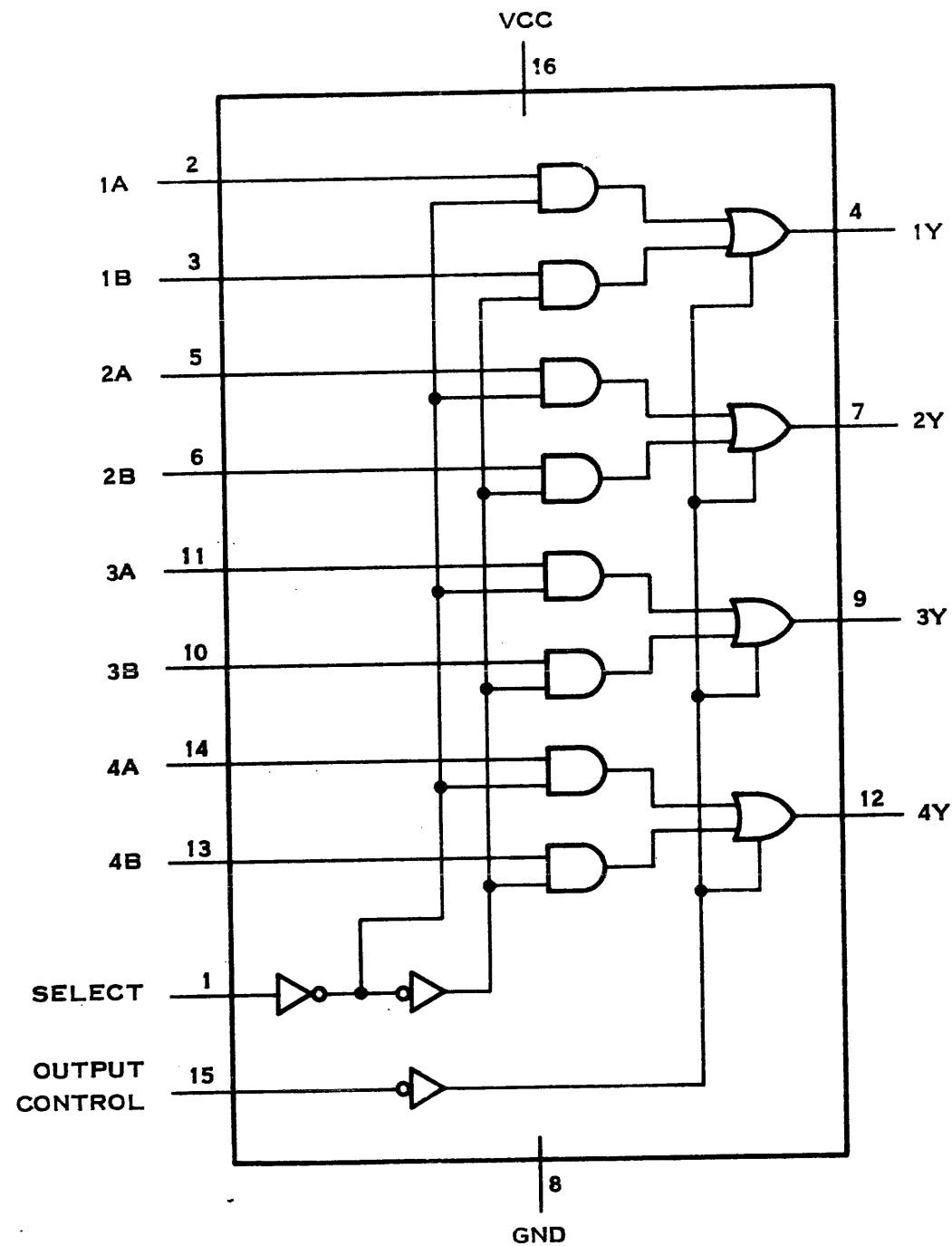
SN74LS253

DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER WITH 3-STATE OUTPUTS

FUNCTION TABLE SN74LS253

SELECT INPUTS		DATA INPUTS				OUTPUT CONTROL	OUTPUT
B	A	C0	C1	C2	C3	G	Y
X	X	X	X	X	X	H	Z
L	L	L	X	X	X	L	L
L	L	H	X	X	X	L	H
L	H	X	L	X	X	L	L
L	H	X	H	X	X	L	H
H	L	X	X	L	X	L	L
H	L	X	X	H	X	L	H
H	H	X	X	X	L	L	L
H	H	X	X	X	H	L	H

ADDRESS INPUTS A AND B ARE COMMON TO BOTH SECTIONS
 H = HIGH LEVEL
 L = LOW LEVEL
 X = IRRELEVANT
 Z = HIGH IMPEDANCE (OFF)



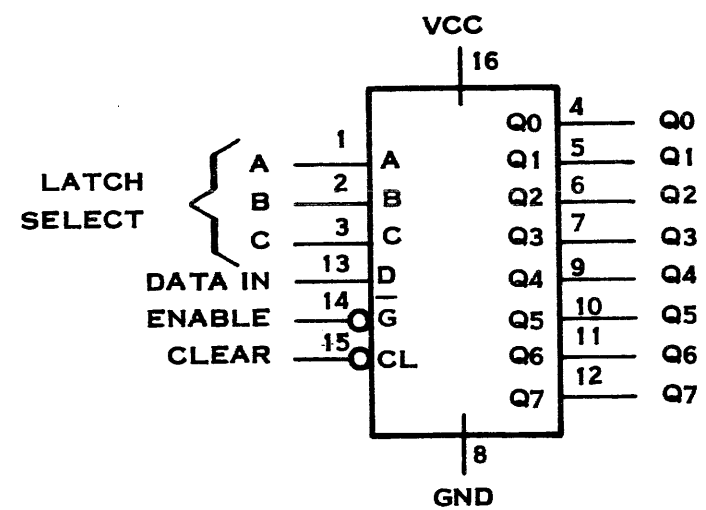
SN74LS257, SN74S257

QUADRUPLE 2-LINE-TO-1-LINE DATA
SELECTOR/MULTIPLEXER WITH
3-STATE OUTPUTS

FUNCTION TABLE SN74LS257, SN74S257

OUTPUT CONTROL	INPUTS			OUTPUT Y
	SELECT	A	B	
H	X	X	X	Z
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT
Z = HIGH IMPEDANCE (OFF)



SN74259

8-BIT ADDRESSABLE LATCH

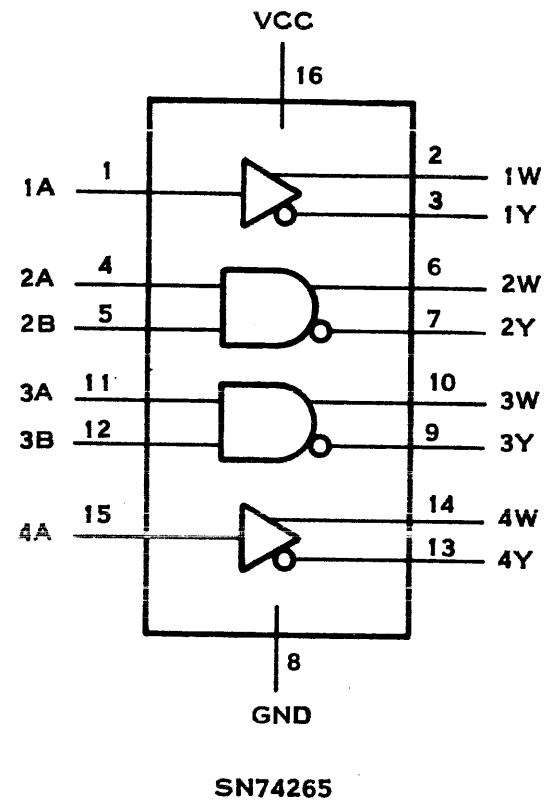
FUNCTION TABLE SN74259

INPUTS		OUTPUT OF ADDRESSED LATCH	EACH OTHER OUTPUT	FUNCTION
CLEAR	\bar{G}			
H	L	D	Q_{i0}	ADDRESSABLE LATCH MEMORY
H	H	Q_{i0}	Q_{i0}	
L	L	D	L	8-LINE DEMULTIPLEXER CLEAR
L	H	L	L	

LATCH SELECTION TABLE

SELECT INPUTS			LATCH ADDRESSED
C	B	A	
L	L	L	0
L	L	H	1
L	H	L	2
L	H	H	3
H	L	L	4
H	L	H	5
H	H	L	6
H	H	H	7

H = HIGH LEVEL
L = LOW LEVEL
D = THE LEVEL AT THE DATA INPUT
 Q_{i0} = THE LEVEL OF Q_i ($i=0, 1, \dots, 7$, AS APPROPRIATE) BEFORE THE INDICATED STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED.

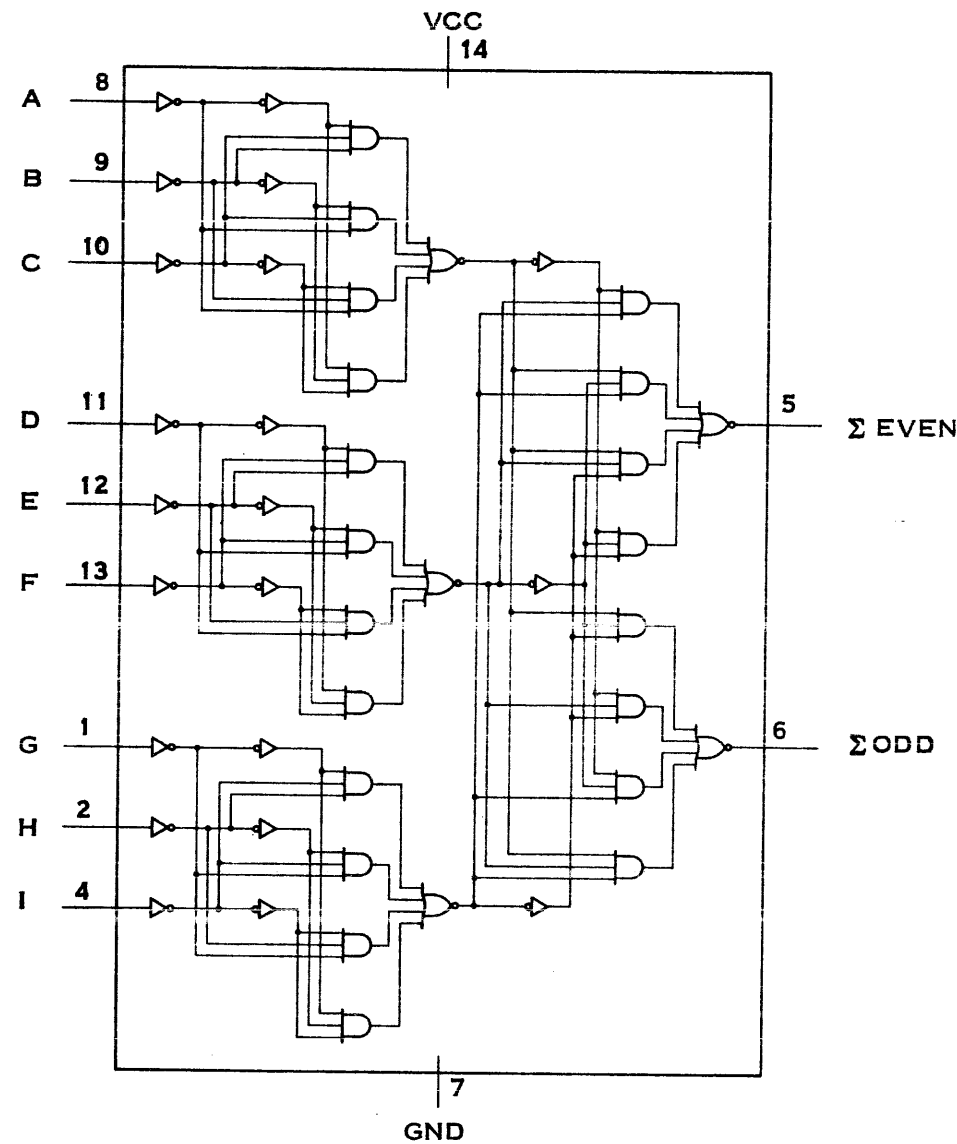


QUADRUPLE COMPLEMENTARY-
OUTPUT ELEMENTS

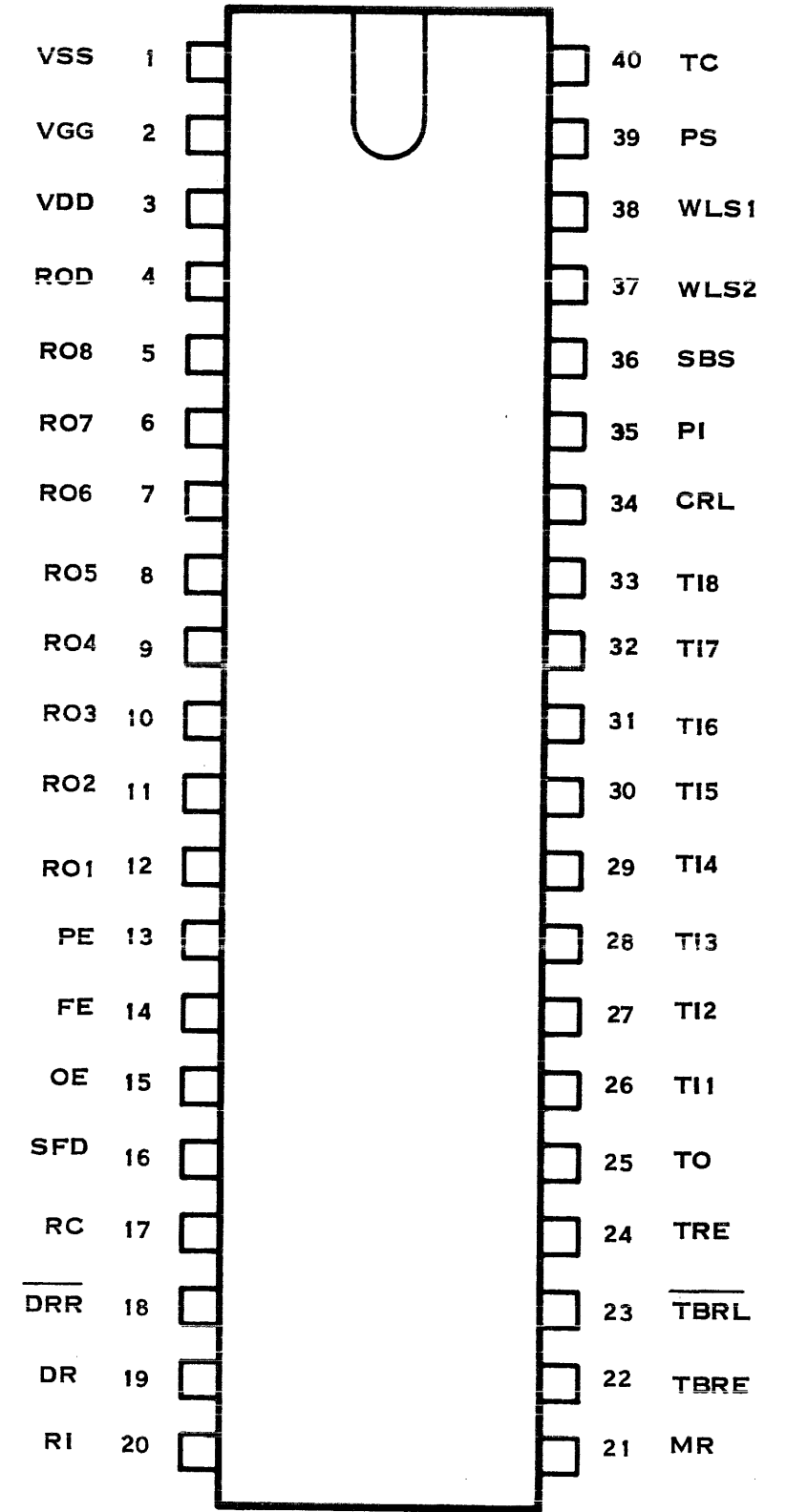
FUNCTION TABLE SN74S280

NUMBER OF INPUTS A THRU I THAT ARE HIGH	OUTPUTS	
	Σ EVEN	Σ ODD
0, 2, 4, 6, 8	H	L
1, 3, 5, 7, 9	L	H

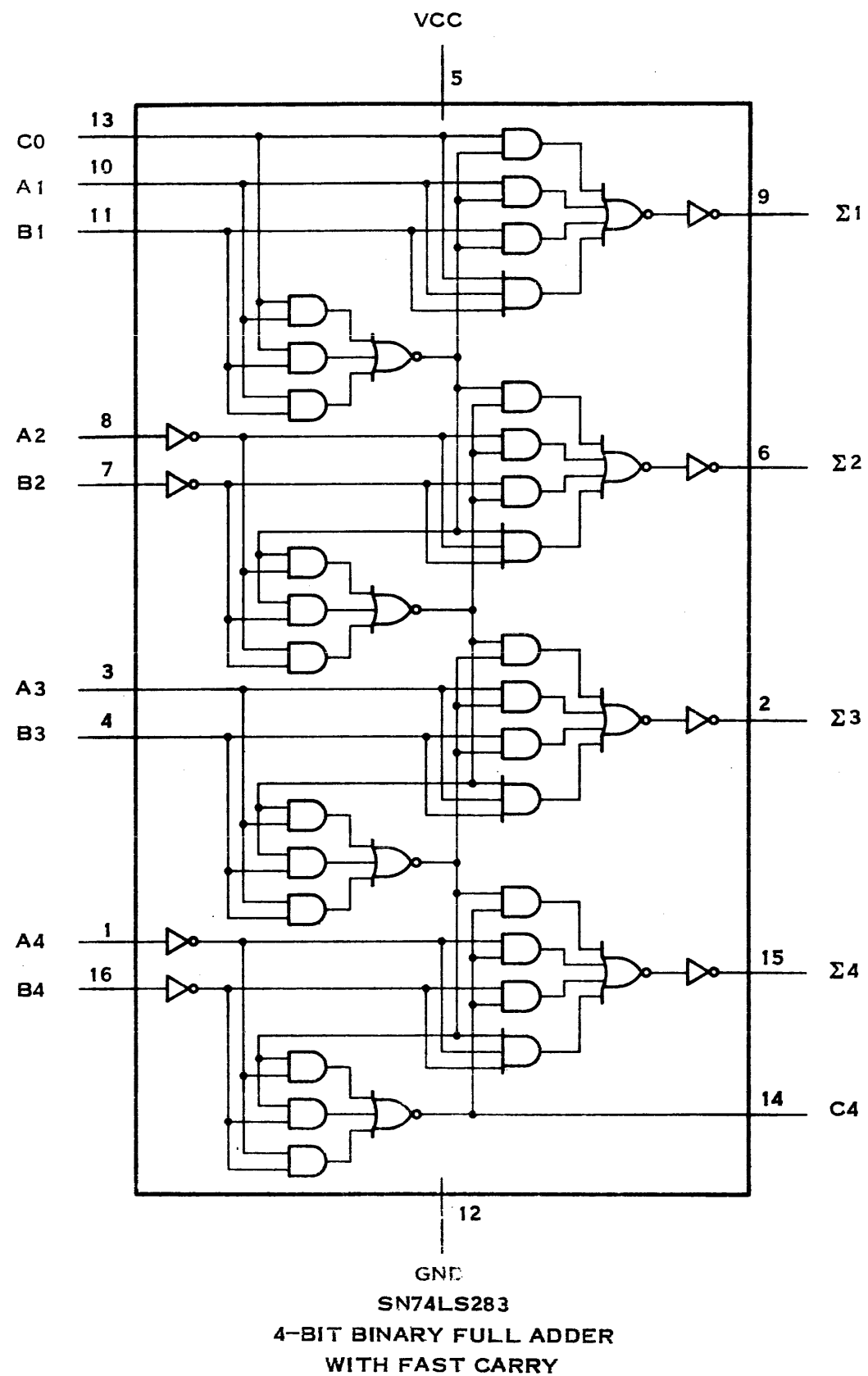
H = HIGH LEVEL
L = LOW LEVEL



9-BIT ODD/EVEN PARITY
GENERATORS/CHECKERS



TMS6011 NC
ASYNCHRONOUS DATA INTERFACE (UART)

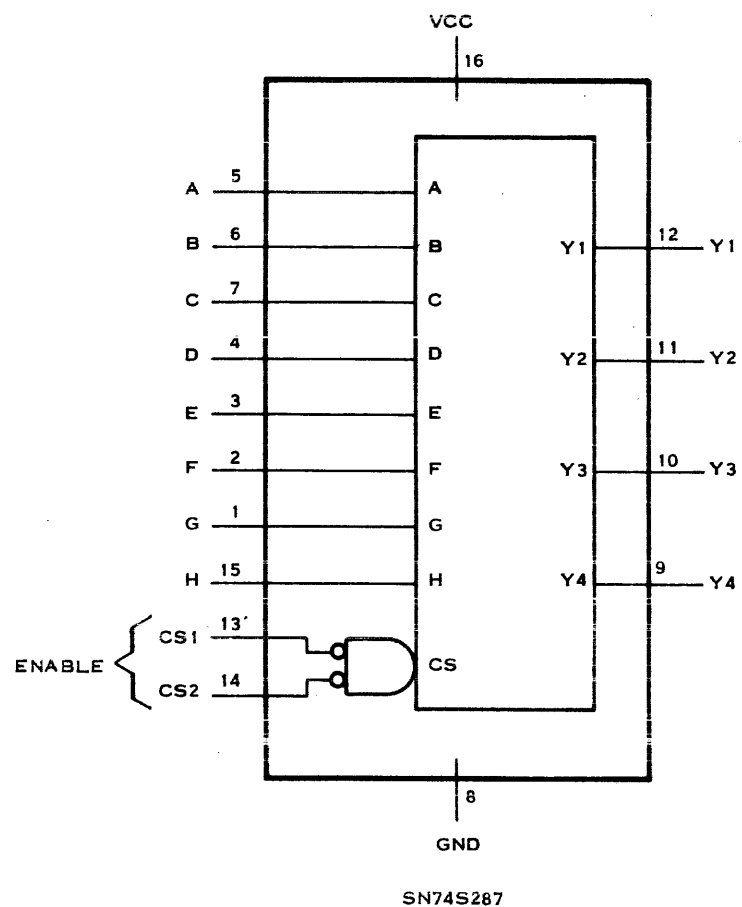


FUNCTION TABLE SN74LS283

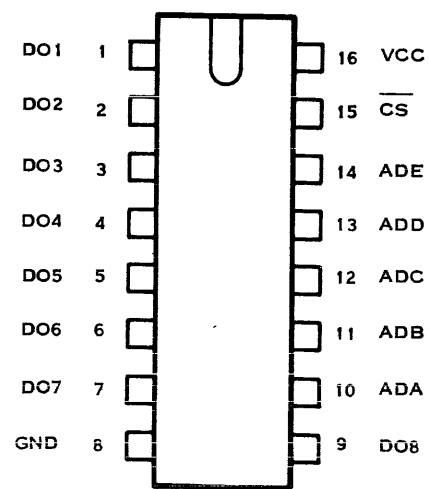
INPUT				OUTPUT					
				WHEN C ₀ =L			WHEN C ₀ =H		
				WHEN C ₂ =L			WHEN C ₂ =H		
A ₁	B ₁	A ₂	B ₂	Σ ₁	Σ ₂	C ₂	Σ ₁	Σ ₂	C ₂
A ₃	B ₃	A ₄	B ₄	Σ ₃	Σ ₄	C ₄	Σ ₃	Σ ₄	C ₄
L	L	L	L	L	L	L	H	L	L
H	L	L	L	H	L	L	L	H	L
L	H	L	L	H	L	L	L	H	L
H	H	L	L	L	H	L	H	H	L
L	L	H	L	L	H	L	H	H	L
H	L	H	L	H	H	L	L	L	H
L	H	H	L	L	L	L	L	L	H
H	H	H	L	L	L	H	H	L	H
L	L	L	H	L	H	L	H	H	L
H	L	L	H	H	H	L	L	L	H
L	H	L	H	H	H	L	L	L	H
H	H	L	H	L	L	H	H	L	H
L	L	H	H	L	L	H	H	L	H
H	L	H	H	H	L	H	L	H	H
L	H	H	H	H	L	H	L	H	H
H	H	H	H	L	H	H	H	H	H

H = HIGH LEVEL
L = LOW LEVEL

NOTE: INPUT CONDITIONS AT A₁, B₁, A₂, B₂, AND C₀ ARE USED TO DETERMINE OUTPUTS Σ₁ AND Σ₂ AND THE VALUE OF THE INTERNAL CARRY C₂, THE VALUES AT C₂, A₃, B₃, A₄, AND B₄ ARE THEN USED TO DETERMINE OUTPUTS Σ₃, Σ₄, AND C₄.



SN74S287
1024-BIT PROGRAMMABLE READ-ONLY MEMORY WITH 3-STATE OUTPUTS



SN74S288
PROGRAMMABLE READ-ONLY MEMORY (256 BITS, 32 WORDS BY 8 BITS)

FUNCTION TABLES SN74293

COUNT SEQUENCE
(SEE NOTE)

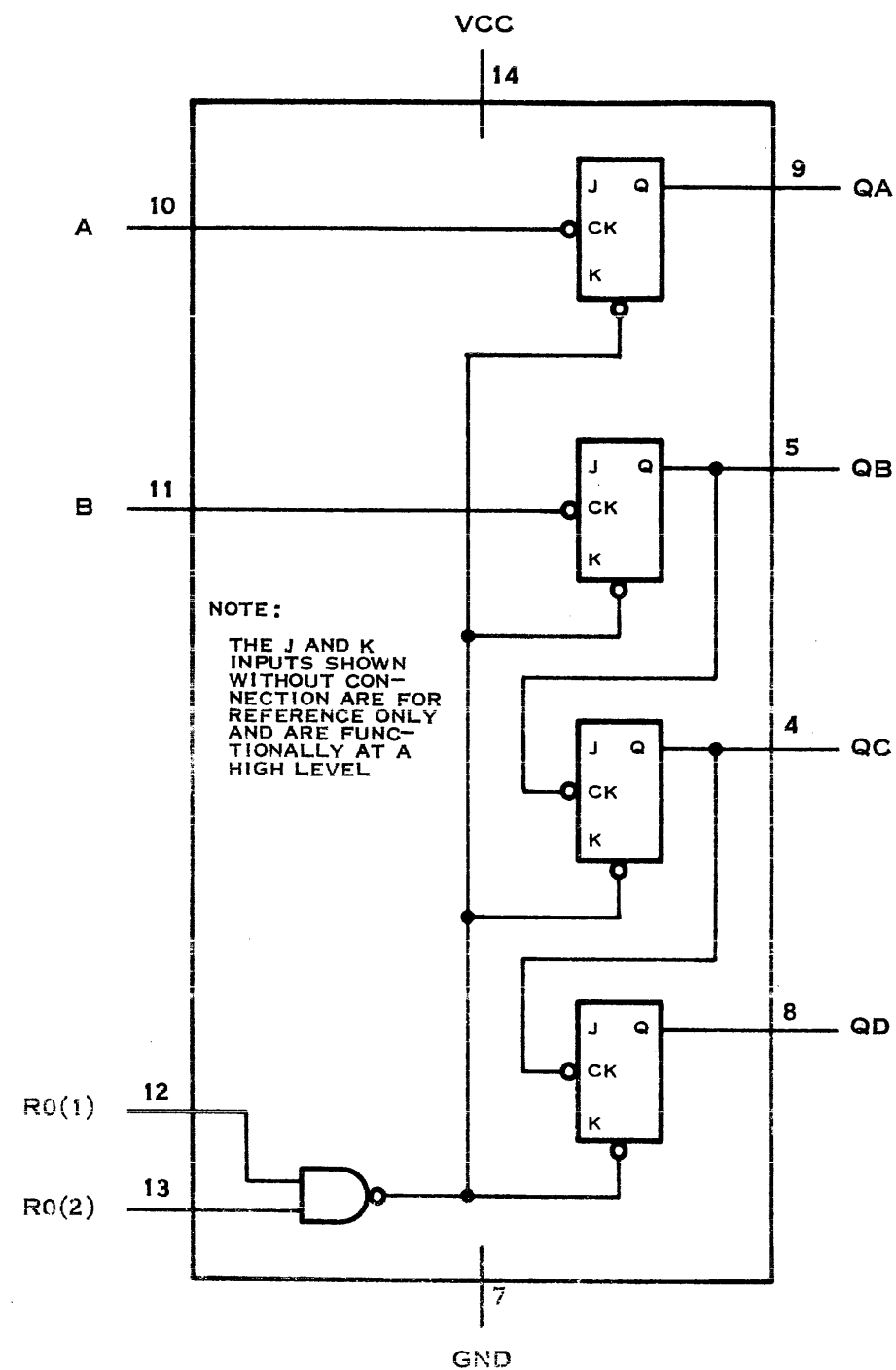
COUNT	OUTPUT			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H
10	H	L	H	L
11	H	L	H	H
12	H	H	L	L
13	H	H	L	H
14	H	H	H	L
15	H	H	H	H

RESET/COUNT FUNCTION TABLE

RESET INPUTS		OUTPUT			
R ₀ (1)	R ₀ (2)	Q _D	Q _C	Q _B	Q _A
H	H	L	L	L	L
L	X	COUNT			
X	L	COUNT			

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT

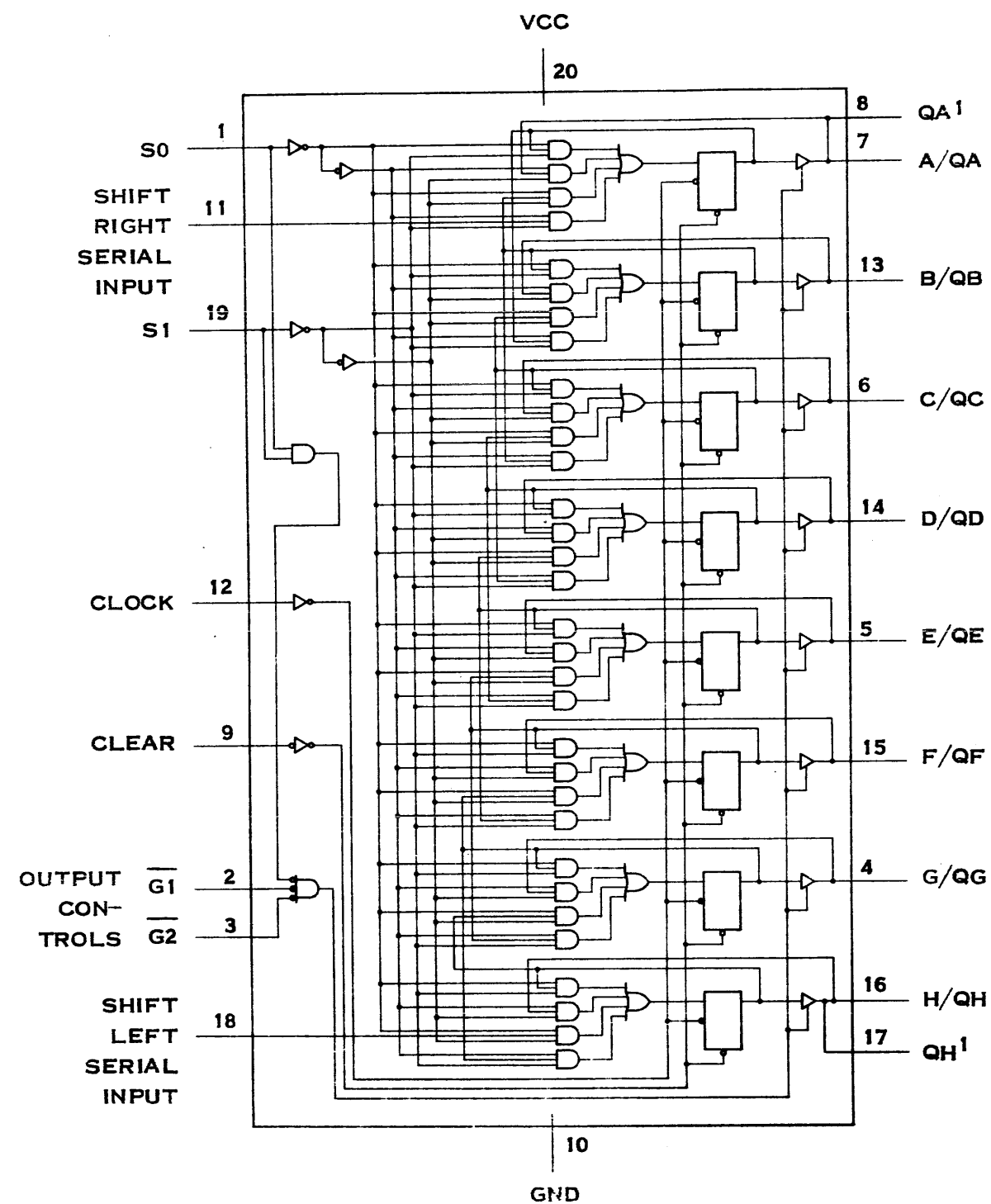
NOTE: OUTPUT Q_A IS CONNECTED TO INPUT B.



NOTE:
THE J AND K INPUTS SHOWN WITHOUT CONNECTION ARE FOR REFERENCE ONLY AND ARE FUNCTIONALLY AT A HIGH LEVEL

SN74293, SN74LS293

DECADE AND 4-BIT BINARY COUNTER



SN74S299

8-BIT UNIVERSAL SHIFT/STORAGE REGISTER

FUNCTION TABLE SN74S299

MODE	INPUTS						INPUTS/OUTPUTS								OUTPUTS			
	CLEAR	FUNCTION SELECT		OUTPUT CONTROL		CLOCK	SERIAL		A/QA	B/QB	C/QC	D/QD	E/QE	F/QF	G/QG	H/QH	QA'	QH'
		S1	S0	\bar{G}_1	\bar{G}_2		SL	SR										
CLEAR	L	X	L	L	L	X	X	X	L	L	L	L	L	L	L	L	L	L
HOLD	L	L	X	L	L	X	X	X	L	L	L	L	L	L	L	L	L	L
	H	L	L	L	L	X	X	X	QA0	QB0	QC0	QD0	QE0	QF0	QG0	QH0	QA0	QH0
SHIFT RIGHT	H	X	X	L	L	L	X	X	QA0	QB0	QC0	QD0	QE0	QF0	QG0	QH0	QA0	QH0
	H	L	H	L	L		X	H	H	QA _n	QB _n	QC _n	QD _n	QE _n	QF _n	QH _n	H	QA _n
SHIFT LEFT	H	H	L	L	L		X	L	L	QA _n	QB _n	QC _n	QD _n	QE _n	QF _n	QH _n	L	QA _n
	H	H	L	L	L		L	X	QB _n	QC _n	QD _n	QE _n	QF _n	QG _n	QH _n	L	QA _n	
LOAD	H	H	H	X	X		X	X	a	b	c	d	e	f	g	h	a	h

WHEN ONE OR BOTH OUTPUT CONTROLS ARE HIGH THE EIGHT INPUT/OUTPUT TERMINALS ARE DISABLED TO THE HIGH-IMPEDANCE STATE, HOWEVER, SEQUENTIAL OPERATION OR CLEARING OF THE REGISTER IS NOT AFFECTED.

H = HIGH LEVEL (STEADY STATE)

L = LOW LEVEL (STEADY STATE)

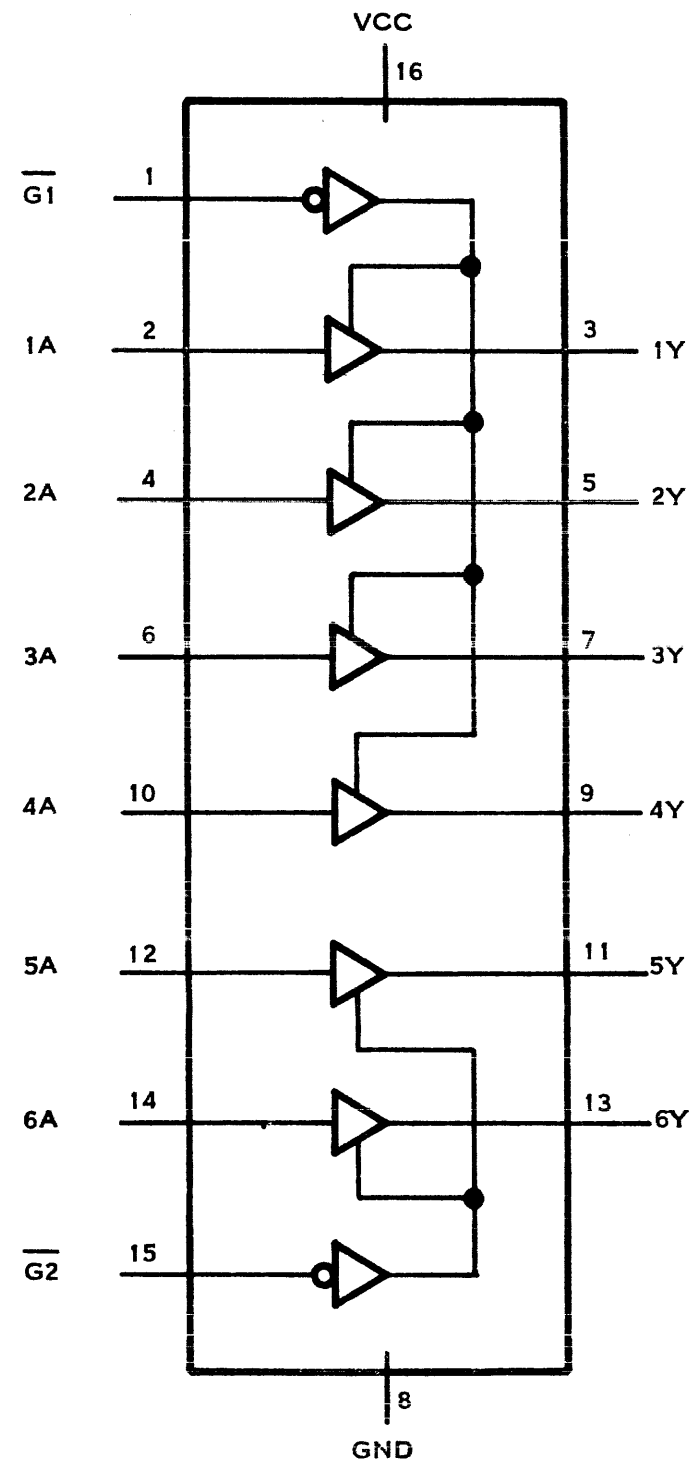
| = TRANSITION FROM LOW TO HIGH LEVEL

X = IRRELEVANT (ANY INPUT, INCLUDING TRANSITIONS)

QA0, QB0, ..., QH0 = THE LEVEL OF THE RESPECTIVE INTERNAL Q OUTPUTS BEFORE THE INDICATED STEADY-STATE INPUT CONDITIONS WERE ESTABLISHED.

QA_n, QB_n, ..., QH_n = THE LEVEL OF QA, QB, ..., QH, RESPECTIVELY BEFORE THE MOST-RECENT | TRANSITION OF THE CLOCK

a, ..., h = THE LEVEL OF THE STEADY-STATE INPUT AT INPUTS A THROUGH H, RESPECTIVELY, IS LOADED INTO THE FLIP-FLOPS WHILE THE FLIP-FLOP OUTPUTS ARE ISOLATED FROM THE INPUT/OUTPUT TERMINALS.



SN74367

HEX BUS DRIVERS WITH
3-STATE OUTPUTS (TRUE DATA)

FUNCTION TABLE
SN74367
(EACH DRIVER)

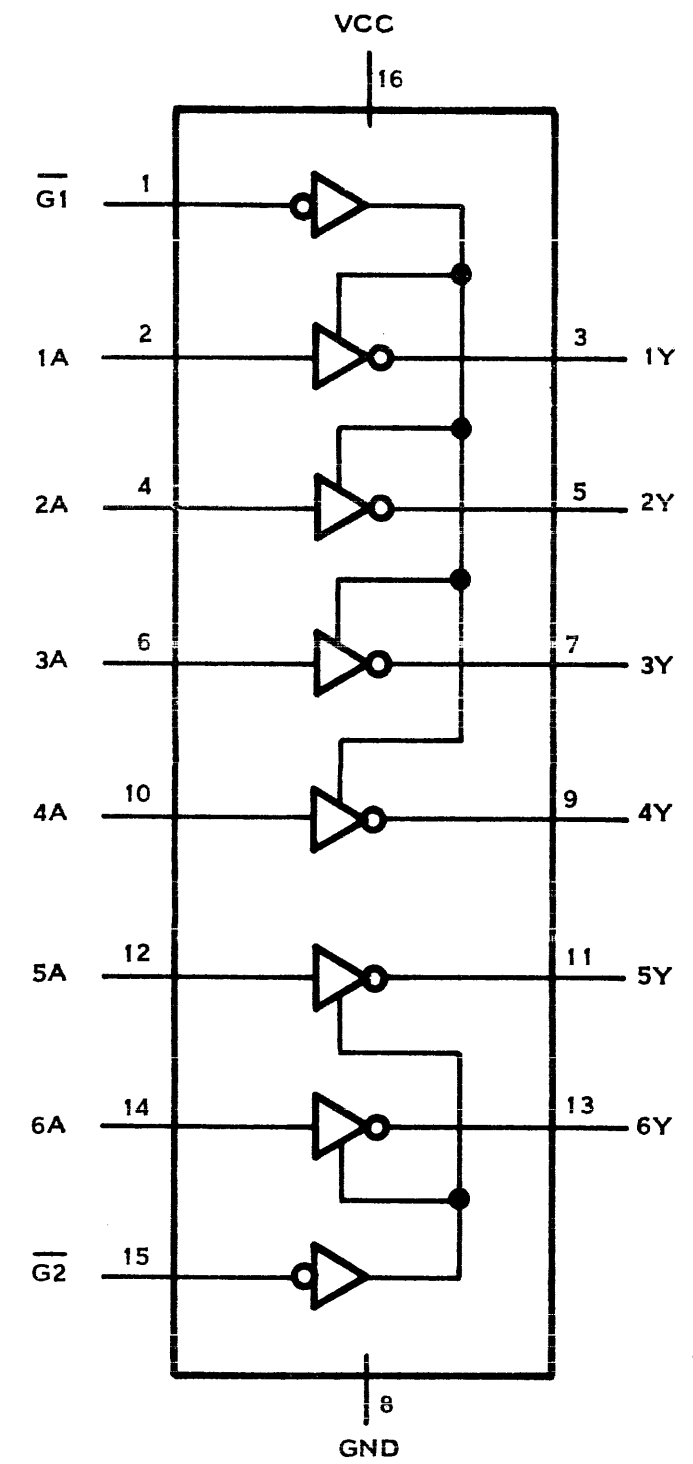
INPUTS		OUTPUT
\overline{G}	A	Y
H	X	Z
L	H	H
L	L	L

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT
Z = HIGH-IMPEDANCE

FUNCTION TABLE
SN74368
(EACH DRIVER)

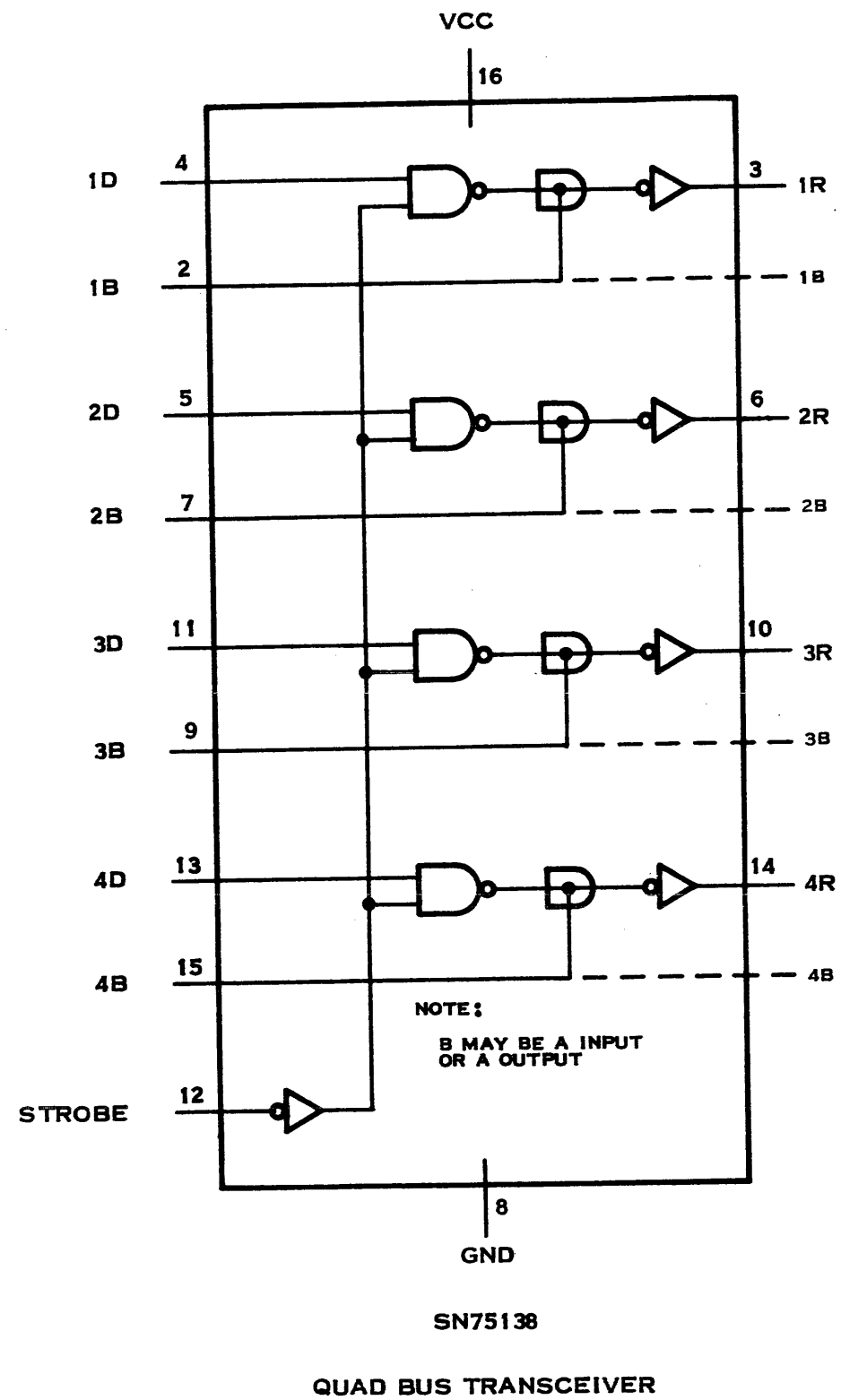
INPUTS		OUTPUT
\overline{G}	A	Y
H	X	Z
L	H	L
L	L	H

H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT
Z = HIGH-IMPEDANCE



SN74368

HEX BUS DRIVERS WITH
3-STATE OUTPUTS (INVERTED DATA)

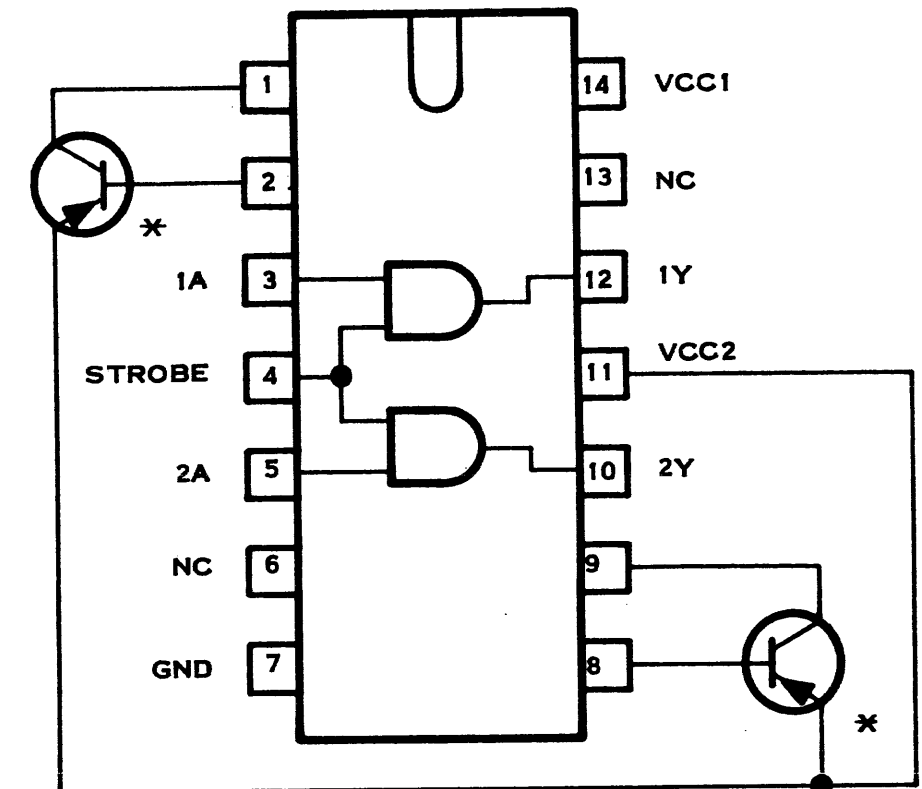


FUNCTION TABLES
SN75138

TRANSMITTING					
INPUTS		OUTPUTS			
S	D	B	R		
L	H	L	H		
L	L	H	L		

RECEIVING				
INPUTS			OUTPUT	
S	B	D	R	
H	H	X	L	
H	L	X	H	

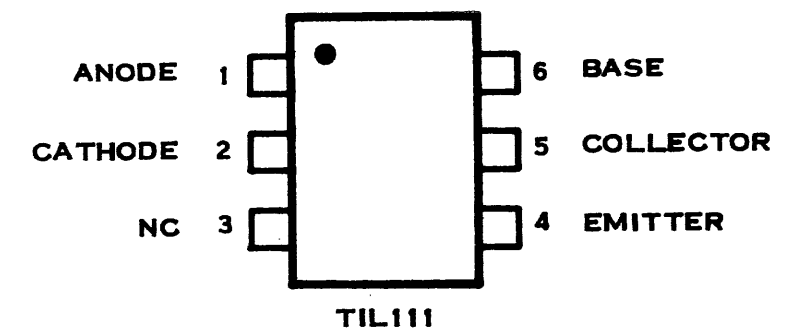
H = HIGH LEVEL
L = LOW LEVEL
X = IRRELEVANT



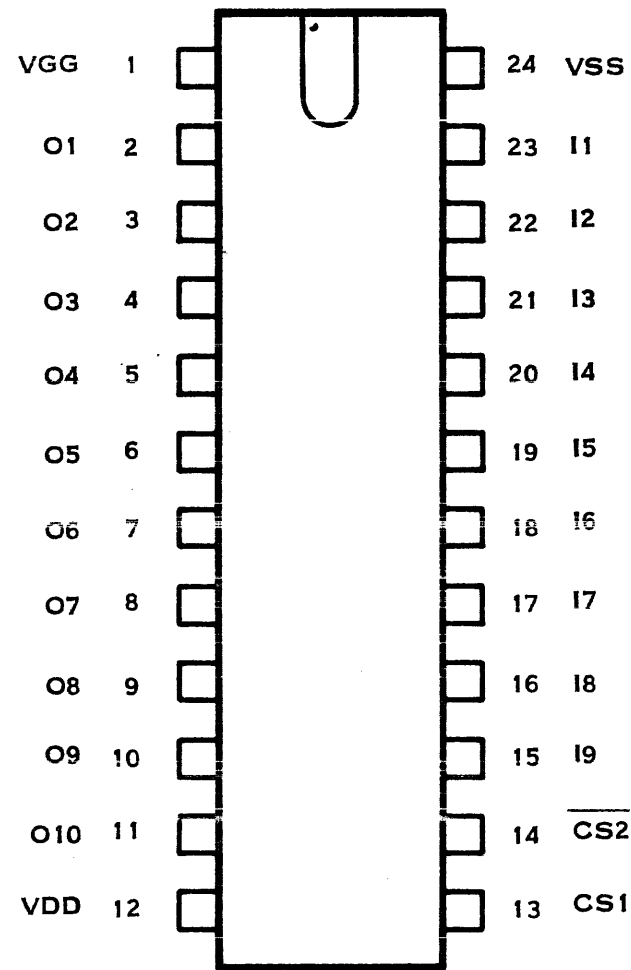
*RECOMMENDED DEVICES:
A5T4260,
A5T4261,
2N5771,
OR EQUIVALENT

SN75322

CHIP-ENABLE CLOCK DRIVER

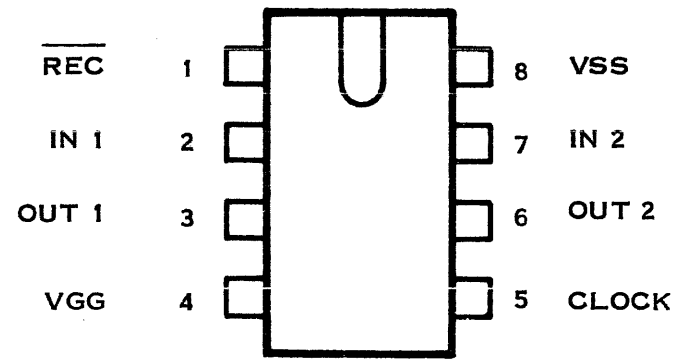


OPTICALLY COUPLED ISOLATOR



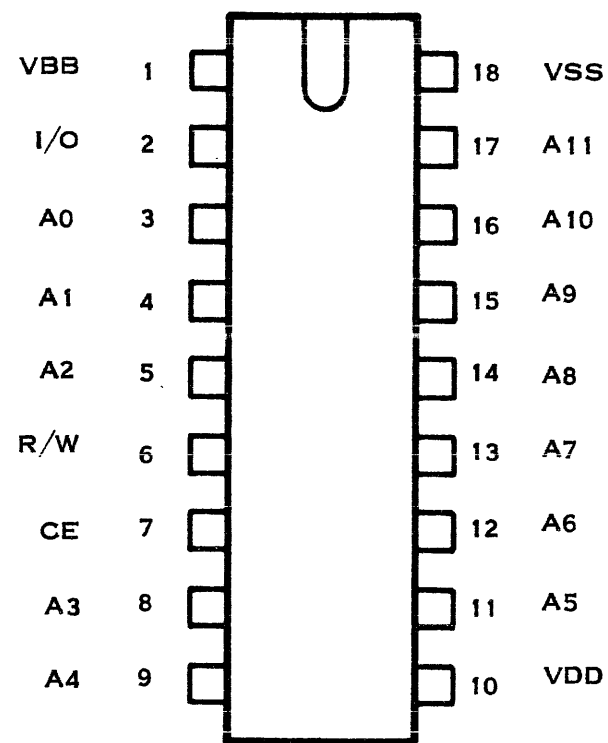
TMS2501 JC,NC

64 X 5 X 7 STATIC USASCII CHARACTER GENERATOR



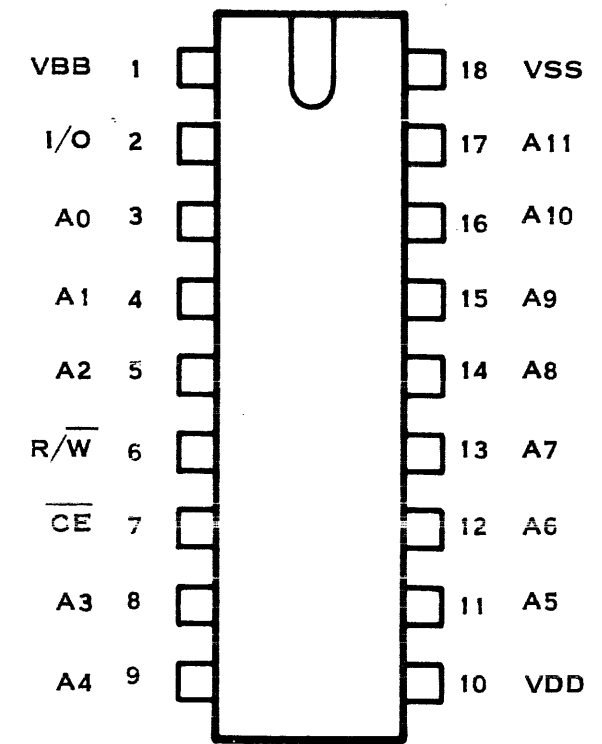
TMS3127 NC

DUAL 100-BIT STATIC SHIFT REGISTER



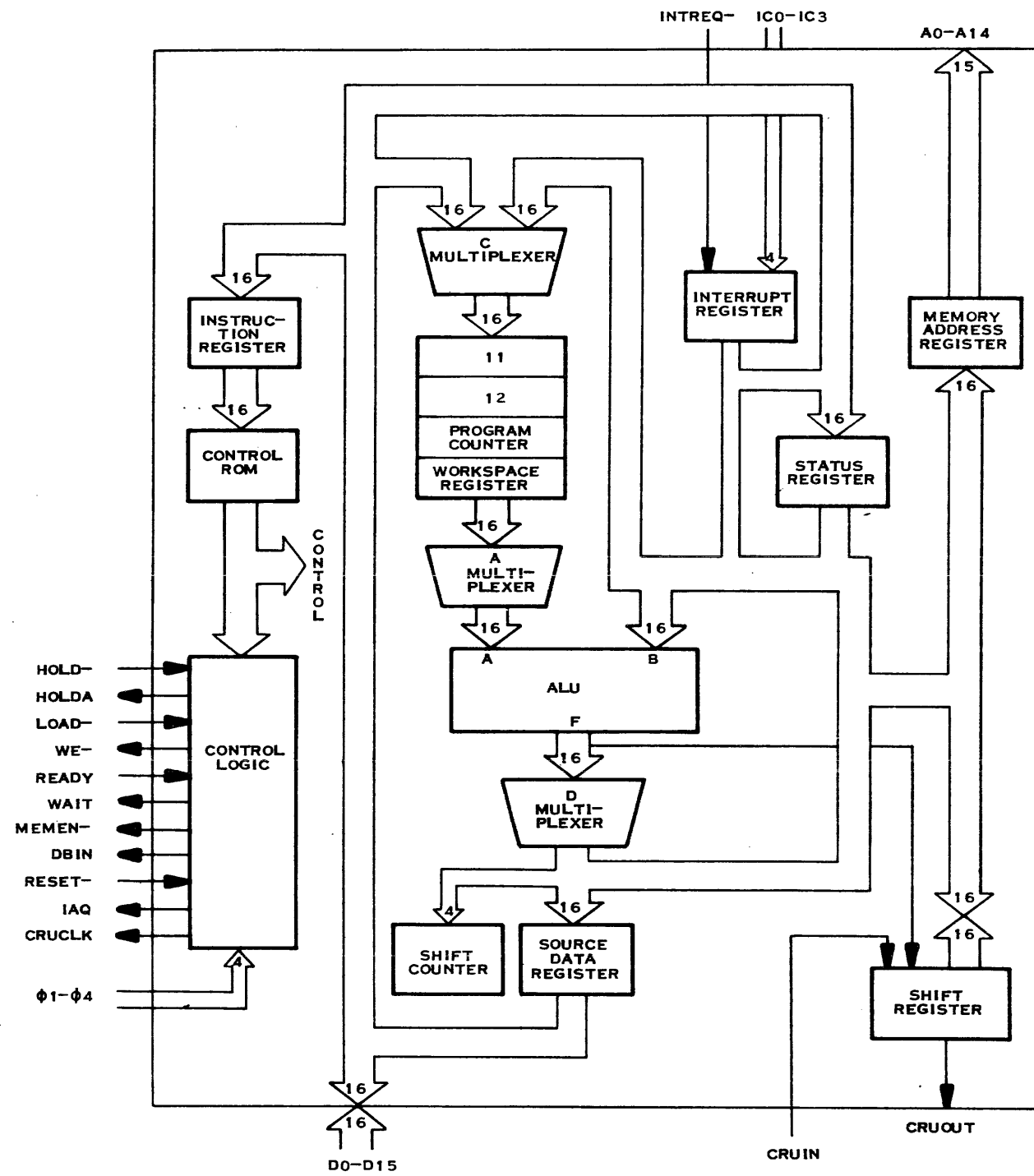
TMS4050 NL

4096-BIT DYNAMIC RANDOM-ACCESS MEMORY



TMS4051 NL

4096-BIT DYNAMIC RANDOM-ACCESS MEMORY



TMS 9900 PIN ASSIGNMENTS

VBB	1	64	HOLD-
VCC	2	63	MEMEN-
WAIT	3	62	READY
LOAD-	4	61	WE-
HOLDA	5	60	CRUCLK
RESET-	6	59	NC
IAQ	7	58	NC
phi 1	8	57	NC
phi 2	9	56	D15
A14	10	55	D14
A13	11	54	D13
A12	12	53	D12
A11	13	52	D11
A10	14	51	D10
A9	15	50	D9
A8	16	49	D8
A7	17	48	D7
A6	18	47	D6
A5	19	46	D5
A4	20	45	D4
A3	21	44	D3
A2	22	43	D2
A1	23	42	D1
A0	24	41	D0
phi 4	25	40	NC
VSS	26	39	NC
VDD	27	38	NC
phi 3	28	37	NC
DBIN	29	36	IC0
CRUOUT	30	35	IC1
CRUIN	31	34	IC2
INTREQ-	32	33	IC3

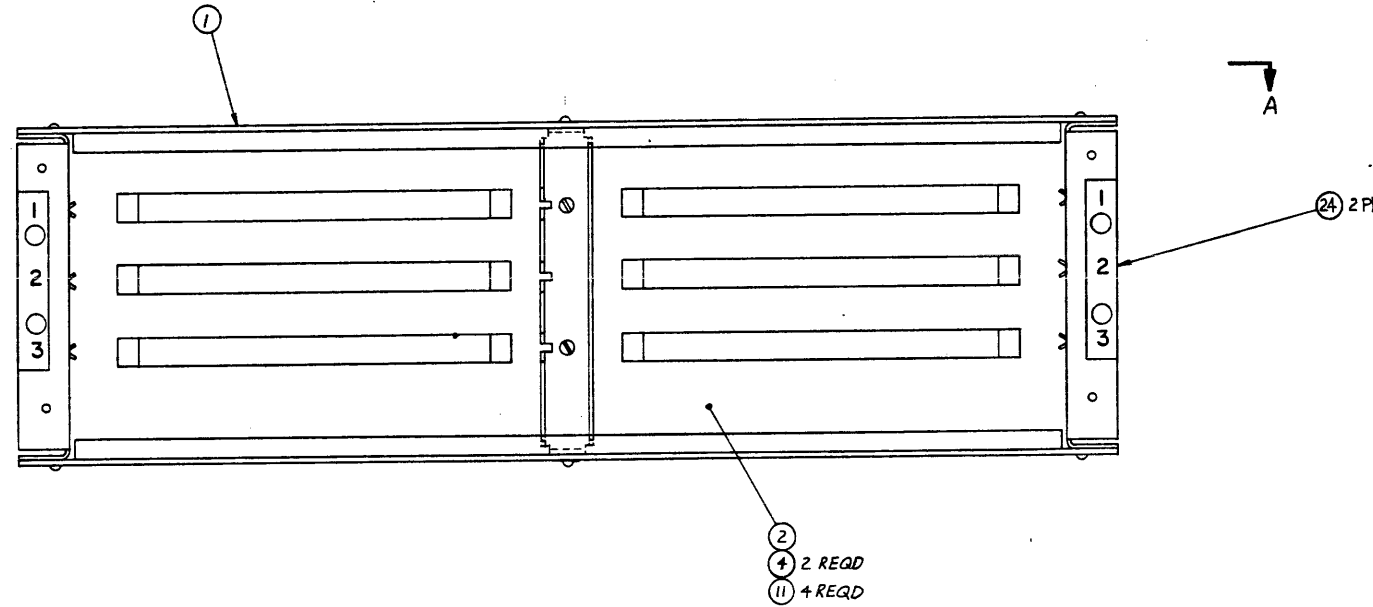
NC -- No connection

TMS 9900

NOTES:
 1 PUT ITEM 13 (6 REQD) & 12 INTO ITEM 8 & TAPE TO ITEM 1 USING ITEM 9.
 2 PUT ITEMS 25 THRU 29 INTO ITEM 8

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 418253 (C) & 111 STE 1 WAS PUT INTO ITEM 12 AND 14 INTO ITEM 8... (2) SH 2 ADDED 5A, 1 JUL 16, 1976 & 1B & ADDED SAME TO LM	5/19/76	<i>[Signature]</i>
B		CN 414925 (D) & 111 ADDED NOTE REVISED AS PER EXTENSIVE ENGR CHANGES	11/30/76	<i>[Signature]</i>
C		CN 426347 (C) & 111 ADDED NOTE 2 (1) SH 2 ADDED BALLBOUNDS 25 THRU 29 SHADDED ITEMS 25 THRU 29 TO LM	9-16-77	<i>[Signature]</i>

SEE SHEET 2



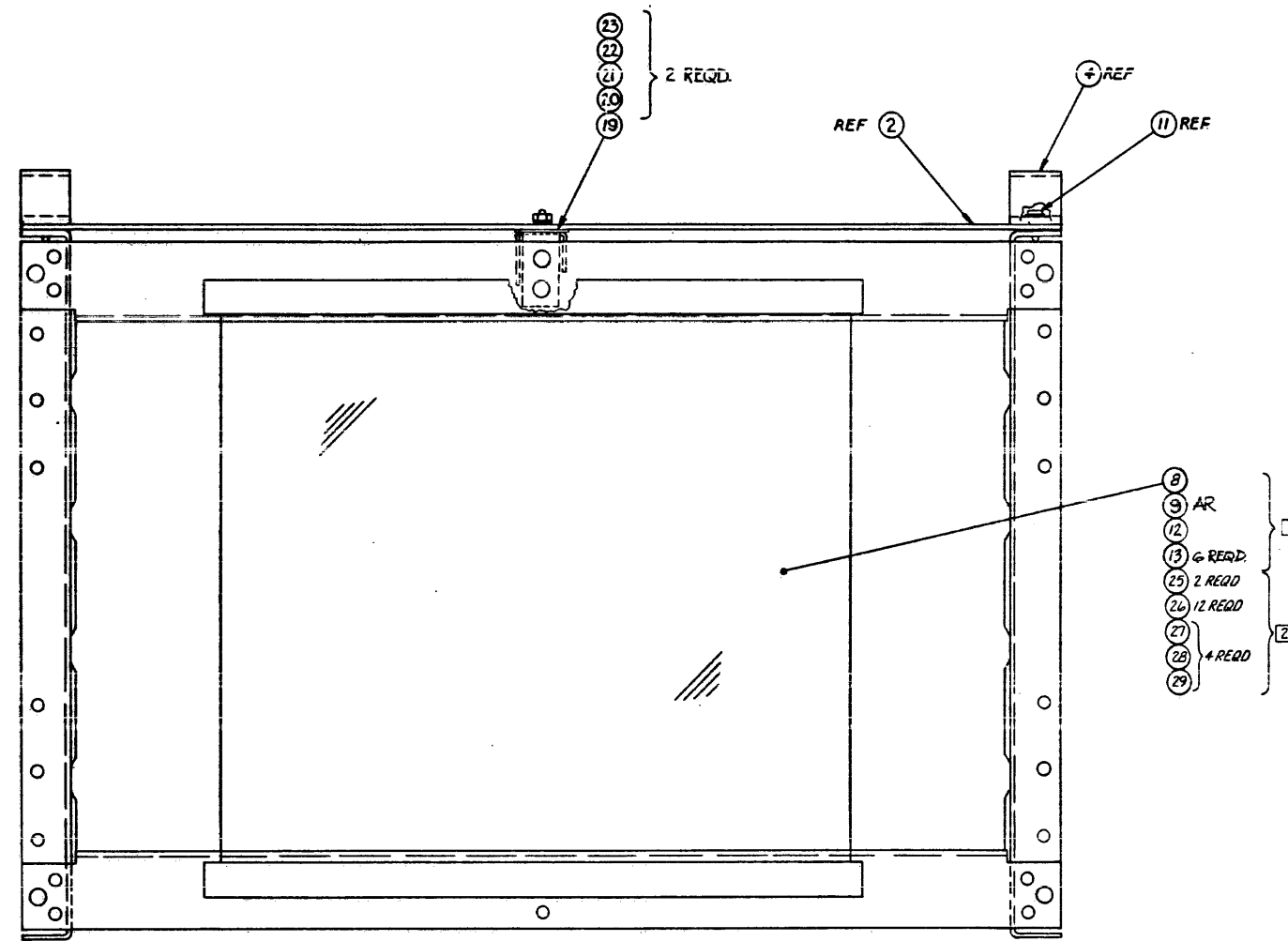
REV	STATUS	REV	BY	DATE
SH		1	1	2

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
				3 SLOT OEM CHASSIS	

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 FIR	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES 30°
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	3 PLACE DECIMALS = .010
	2 PLACE DECIMALS = .02

DATE	BY	DESCRIPTION
1-26-76	<i>[Signature]</i>	DESIGN
2/9/76	<i>[Signature]</i>	ENGR
2/9/76	<i>[Signature]</i>	CHKD
1/29/76	<i>[Signature]</i>	APP'D
1/29/76	<i>[Signature]</i>	DESIGN ACTIVE RELEASE

44300 7506	SIZE	CODE IDENT NO	DRAWING NO
	D	96214	945040
	SCALE	1/1	SHEET 1 OF 2

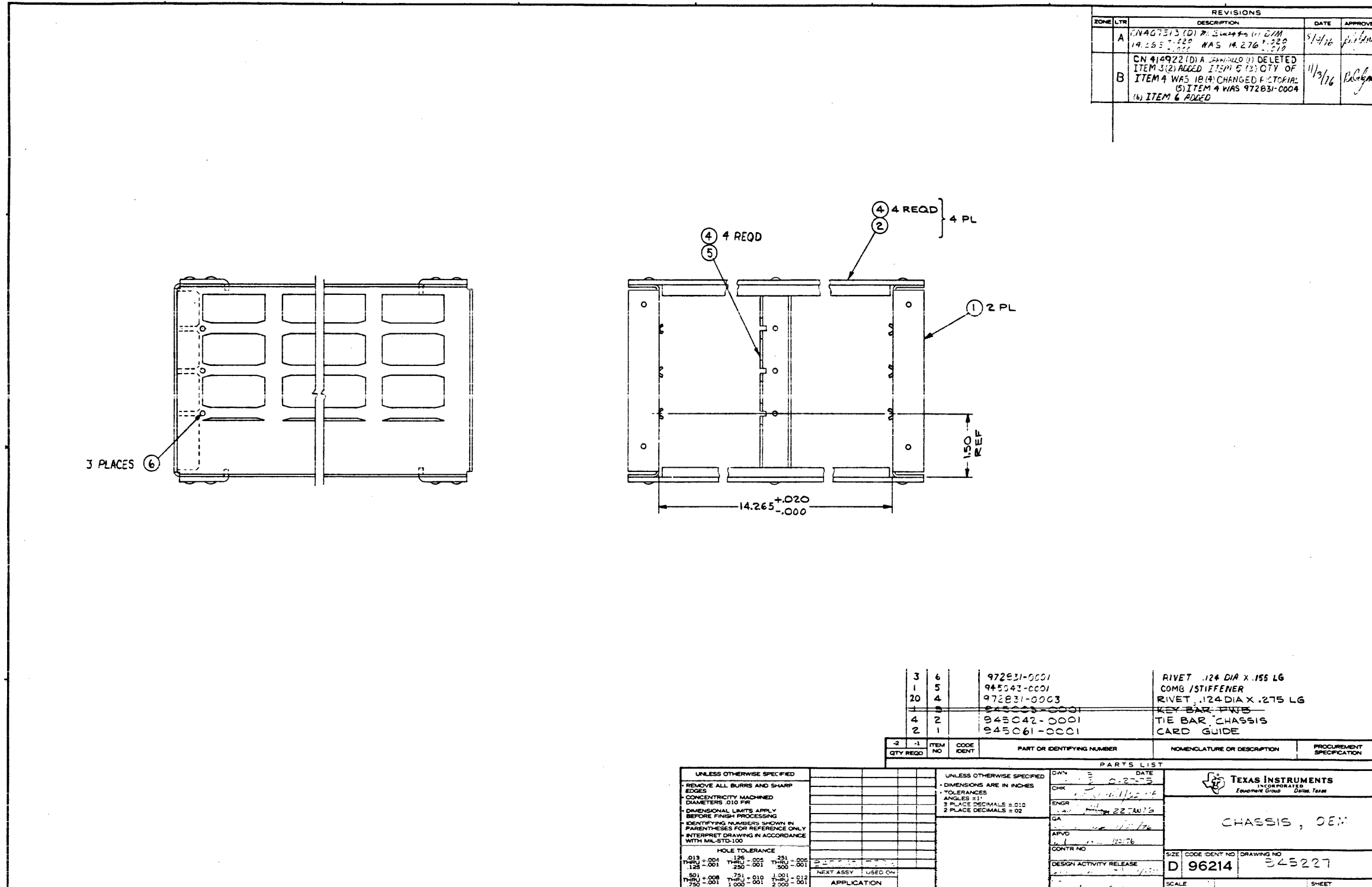


VIEW A-A
SEE SHEET 1

SIZE	CODE IDENT NO	DRAWING NO
D	96214	345040
SCALE 1/1	SHEET 2	

TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945040-0001		REV C	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945227-0001	CHASSIS, OEM						
0002	00001.000	EA		0945046-0001	HACKPANEL-3 SLOT CHASSIS						
0004	00002.000	EA		0945004-0001	BRACKET, MOUNTING, CHASSIS						
0008	00001.000	EA		0532997-0018	BAG, POLYTH, HEAT SEALED 10"x10"x.004"						
0009	00000.030	EA		0415404-0002	TAPE, MASKING, .50 WIDE						
0011	00004.000	EA		0972684-0013	SCREW, THD FRMG, HEX-WASHR HD, 6-32X.625LG						
0012	00001.000	EA		0399999-9711	COPY OF DWG(S) BELOW	-ROGUS P/N, NO D					
0012A					946750 INSTRUCTIONS						
0013	00006.000	EA		0975321-0003	JUMPER, 990, INTERRUPT (4IN)						
0015	REF	EA		0945048-9901	PACKING INSTRUCTIONS, OEM CHASSIS						
0019	00001.000	EA		0945049-0001	INSULATOR, STIFFENER						
0020	00002.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0021	00002.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244					
0022	00002.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	QPL - MS15795-303					
0023	00002.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TQUTH CRES	QPL - MS35333-70					
0024	00002.000	EA		0946700-0001	LABEL, GEN PURPOSE						
0025	00002.000	EA		0945248-0001	BRACKET, MOUNTING, CHASSIS						
0026	00012.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0027	00004.000	EA		0972986-0006	SCREW 13-32 .250 PAN HEAD CRES						
0028	00004.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TQUTH CRES						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPROVED		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	3 SLOT OEM CHASSIS			
DATE		DATE	DATE	DATE	DATE	DATE	PROJECT NO.	LM 0945040-0001 C			
DATE		DATE	DATE	DATE	DATE	DATE	PROJECT NO.	LM 0945040-0001 C			

TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/77		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945040-0001		REV C	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0029	00004.000	EA		0411027-0808	WASHER, FLAT, #10						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPROVED		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	3 SLOT OEM CHASSIS			
DATE		DATE	DATE	DATE	DATE	DATE	PROJECT NO.	LM 0945040-0001 C			
DATE		DATE	DATE	DATE	DATE	DATE	PROJECT NO.	LM 0945040-0001 C			

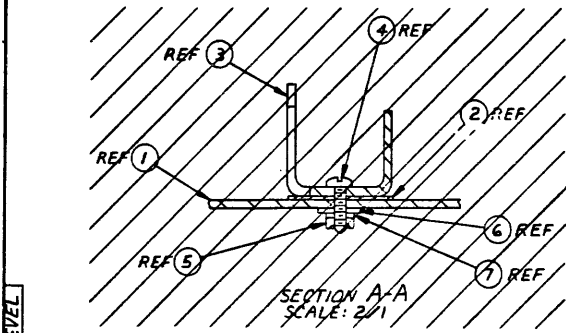
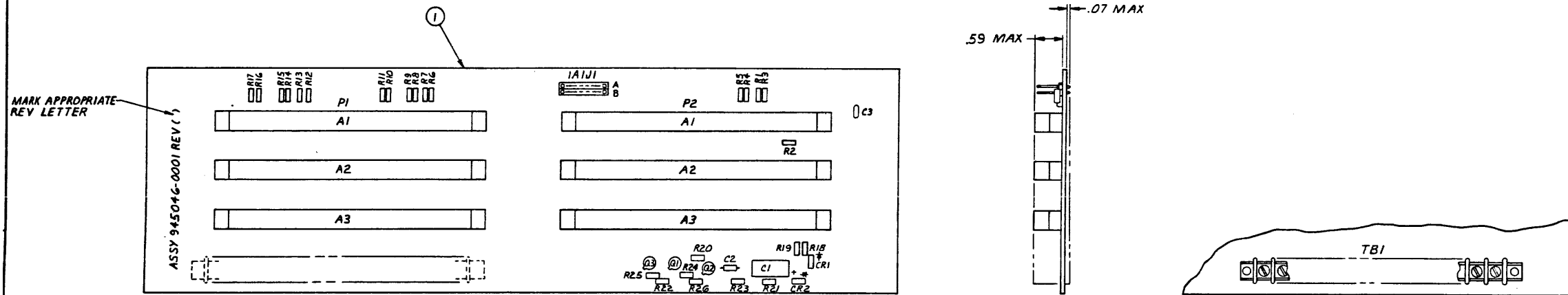


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		1) 14.265 ±.020 WAS 14.276 ±.020	8/1/76	[Signature]
B		CN 414922 (D) A (FRANK) (U) DELETED ITEM 3 (2) ADDED ITEM 5 (2) QTY OF ITEM 4 WAS 18 (4) CHANGED FACTORIAL (5) ITEM 4 WAS 972831-0004 (6) ITEM 6 ADDED	11/3/76	[Signature]

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
3	6		972831-0001	RIVET .124 DIA X .155 LG	
1	5		945043-0001	COMB /STIFFENER	
20	4		972831-0003	RIVET .124 DIA X .275 LG	
1	8		945003-0001	KEY BAR FIVE	
4	2		945042-0001	TIE BAR CHASSIS	
2	1		945061-0001	CARD GUIDE	

UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED				PARTS LIST			
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				DIMENSIONS ARE IN INCHES ANGLES 1:1 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02				OWN	DATE	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas	
HOLE TOLERANCE .013 ±.001 THRU .125 ±.001 .125 ±.001 THRU .250 ±.001 .250 ±.001 THRU .500 ±.001 .501 ±.008 THRU .751 ±.010 .750 ±.001 THRU 1.000 ±.001				APPLICATION				ENGR	22 JAN 76		CHASSIS, OEM
								GA	22 JAN 76		
								APVD	123/76		
								CONTR NO		SIZE CODE IDENT NO DRAWING NO	
								DESIGN ACTIVITY RELEASE		D 96214 345227	
								SCALE		SHEET	

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN 415327 (D) R. R. (1) UPDATED REV LEVEL BLOCK	6-19-76	J. Williams
	B	CN 415327 (D) R. R. (1) UPDATED REV LEVEL BLOCK	8/19/76	J. Williams
	C	CN 401905 (D) R. R. (1) DELETED ITEMS 2, 3, 4, 5, 6, 7 FROM PICTORIAL, UPDATED REV LEVEL BLOCK	11-2-76	J. Williams
	D	CN 426347 (C) H. R. (1) ITEM 8 P/N WAS 972676-0001 ON LM (2) UPDATED REVISION LEVEL BLOCK	2/1/77	J. Williams
	E	CN 429585 (E) C. R. (1) UPDATED REV LEVEL BLOCK	6-1-78	J. Williams
	F	CN 448722 (D) R. G. (1) ITEM 8 QTY WAS 6, ITEM 8A&B DESC WAS A1P1 THRU A3P1 & A1P2 THRU A3P2 (2) ADDED ITEM 29 (3) UPDATED REVISION LEVEL BLOCK	2-28-80	J. Williams



PROCESSES:
 1. SOLDER PER F-127, METHOD I, AND/OR F-124
 2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .12, COLOR BLACK

REV LEVEL	DIAGRAM (344918-9901)	*	*	*	*	A	A
	PWB (945047-0001)	*	A	B	C	D	D
	ASSY (945046-0001)	*	A	B	C	D	E

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL CURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 PIR	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	ANGLES °	3 PLACE DECIMALS = .010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	HOLE TOLERANCE	2 PLACE DECIMALS = .02	
.013 - .004	.125 - .008		
THRU - .001	THRU - .001		
.125	.300		
.501 - .008	.751 - .010		
THRU - .001	THRU - .001		
.752 - .001	1.300 - .001		

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
				945046 7506	BACKPANEL-3 SLOT CHASSIS	

DATE	BY	APPROVED
2-2-76	J. Williams	
2/1/77	J. Williams	
3-28-76	J. Williams	
2/1/76	J. Williams	
2/1/76	J. Williams	

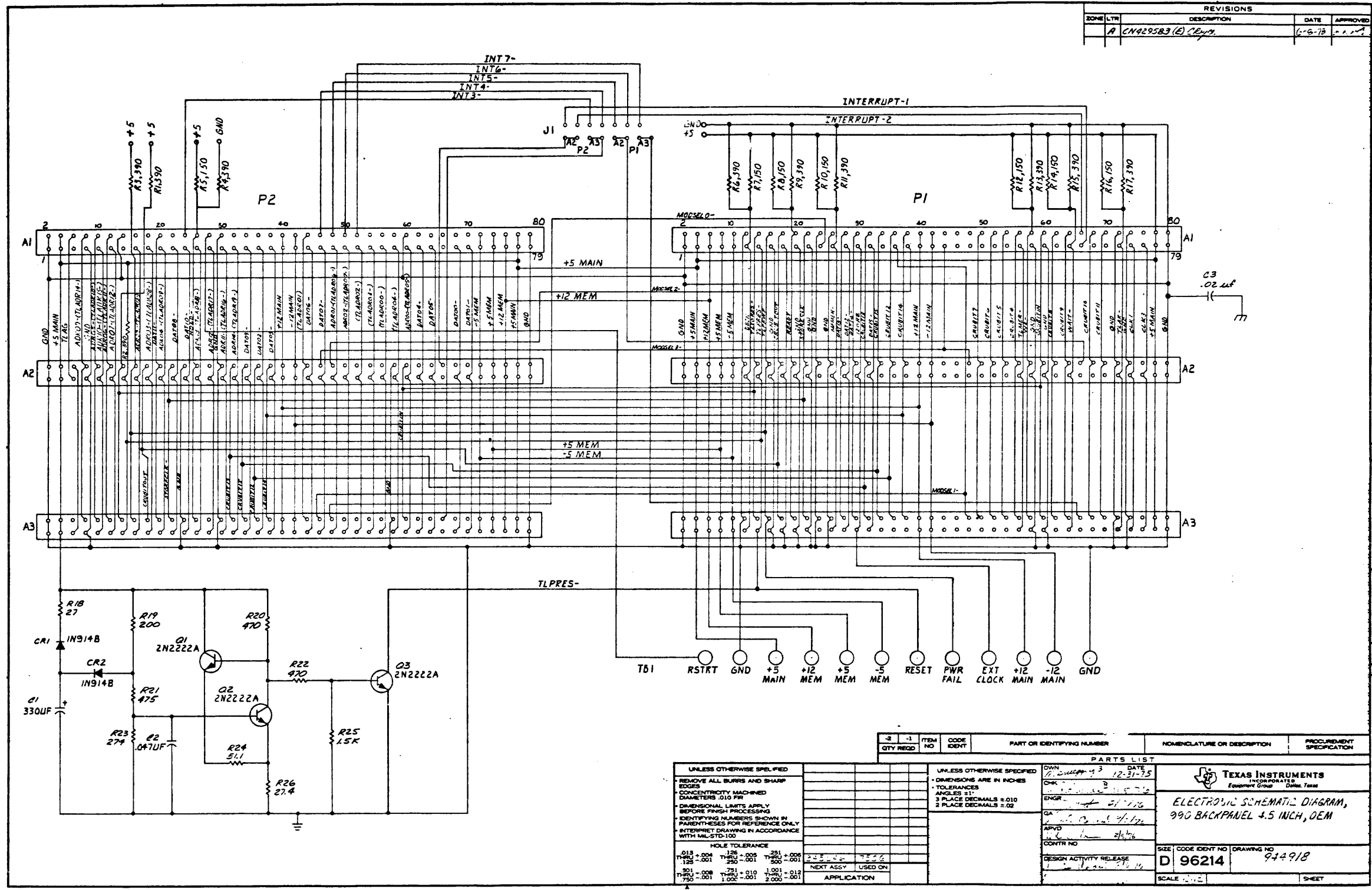
DATE	BY	APPROVED
2-2-76	J. Williams	
2/1/76	J. Williams	
3-28-76	J. Williams	
2/1/76	J. Williams	
2/1/76	J. Williams	

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
				945046 7506	BACKPANEL-3 SLOT CHASSIS	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER	REV
								LM0945046-0001	F
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0945047-0001	PCB, OEM BACKPANEL				
0008	00000.000	EA		0996562-0001	CONNECTOR,PWB CARD-EDGE	081312-2HML400-11			
0008A					THIS IS AN ALTRNATE FOR				
0008B					ITEM 29.				
0010	00001.000	EA		0532736-0002	CAP FIX CERAMIC .02 MF 20/80% 25 VOLT	CRL - 200U60F203ZAC			
0010A					C3				
0011	00001.000	FA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%				
0011A					C2				
0012	00001.000	FA		0972924-0004	X CAP FIX TANT SOLID 330 MFD 10% 6 VOLT	QPL -H39003/1-2251			
0012A					C1				
0013	00001.000	EA		0972946-0027	RES FIX 27.0 OHM 5 % .25 W.CARBON FILM	ROH - R-25			
0013A					R18				
0014	00001.000	EA		0539370-0235	RES FIX,27.4 OHMS 1% .25 WATT	COR - NA55			
0014A					R26				
0015	00001.000	EA		0539370-0261	RES FIX FILM 51.1 OHM 1% .25 WATT	COR -NA55D-100PPH/C			
0015A					R24				
0016	00007.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25			
0016A					R4 R7 R8 R10 R12 R14 R16				
0017	00001.000	EA		0539370-0318	RES FIX FILM 200 OHM 1% .25 WATT	COR - NA55			
0017A					R19				
DRAFTSMAN DATE 02/11/80 CDD DRAFTSMAN DATE 2-13-80 DESIGN ENGINEER TITLE BACKPANFL-3 SLOT CHASSIS APP'D MFG DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7506 PART NUMBER LM0945046-0001 REV F 11.1384F 32 1/3									

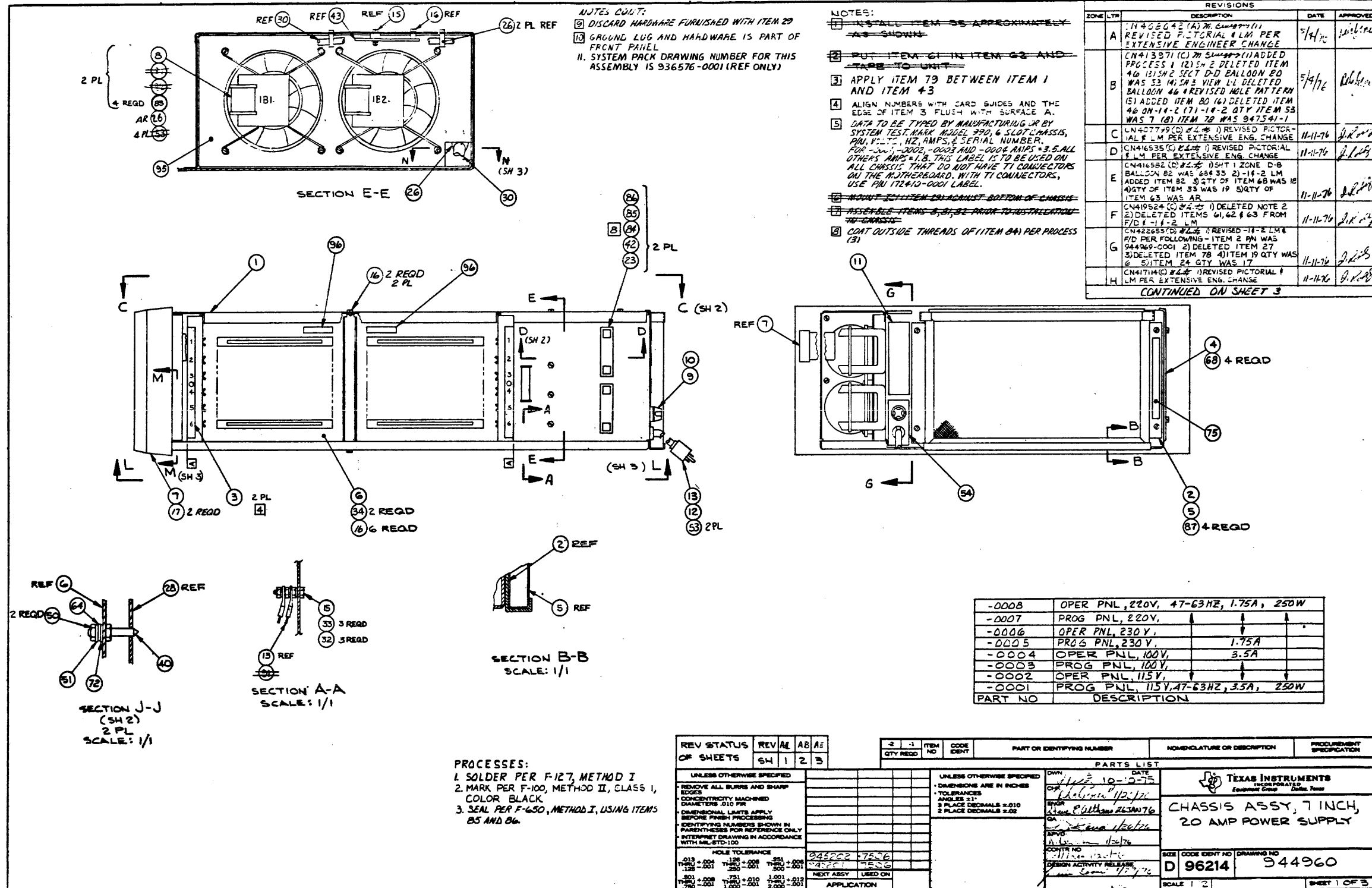
TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER	REV
								LM0945046-0001	F
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0018	00001.000	EA		0539370-0331	RES FIX,274 OHMS 1% .25 WATT	COR - NA55			
0018A					R23				
0019	00010.000	EA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	ROH - R-25			
0019A					R1 R2 R3 R5 R6 R9 R11 R13				
0019B					R15 R17				
0020	00002.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25			
0020A					R20 R22				
0021	00001.000	EA		0539370-0354	RES FIX FILM 475 OHM 1% .25 WATT	COR - NA55			
0021A					R21				
0022	00001.000	EA		0972946-0069	RES FIX 1.5K OHM 5 % .25 W CARBON FILM	ROH - R-25			
0022A					R25				
0023	00003.000	EA		0972948-0002	TRANSISTOR,2N2222A NPN GEN PURP SW TD-18	TI - 2N2222A			
0023A					Q1 Q2 Q3				
0024	00001.000	EA		0772939-0019	TERMINAL BOARD AND TAB ASSEMBLIES				
0024A					T81				
0025	00002.000	FA		0972699-0007	HEADER, WIRE WRAP, 8 POST				
0025A					1A1J1A 1A1J1B				
0026	00002.000	FA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING			
0026A					CR1 CR2				
0027	REF	EA		0945014-0901	SPECIFICATION, BACKPANEL ELECTRICAL, 990				
DRAFTSMAN DATE 02/11/80 CDD DRAFTSMAN DATE 2-13-80 DESIGN ENGINEER TITLE BACKPANFL-3 SLOT CHASSIS APP'D MFG DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0945046-0001 REV F 11.1384F									

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER	REV
								LM0945046-0001	F
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0028	REF			09444910-9901	WIRING DIAGRAM 990 BACKPANEL 4.5 IN OEM				
0029	00006.000	EA		0972676-0001	CONNECTOR-CARD EDGE,80 PIN,SOLDER POST				
0029A					A1P1 THRU A3P1				
0029B					A1P2 THRU A3P2				
DRAFTSMAN DATE 02/11/80 CDD DRAFTSMAN DATE 2-13-80 DESIGN ENGINEER TITLE BACKPANFL-3 SLOT CHASSIS APP'D MFG DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0945046-0001 REV F 11.1384F									



REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		CN4295B3 (6) Rev. 1	6-8-73

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES				DIMENSIONS ARE IN INCHES		
CONCENTRICITY MACHINED				TOLERANCES		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING				ANGLES 2:1		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY				3 PLACE DECIMALS ±.010		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				2 PLACE DECIMALS = .02		
HOLE TOLERANCE				OWN		
.015 ±.004				DATE		
.015 ±.001				12-31-75		
.015 ±.001				CHK		
.015 ±.001				ENGR		
.015 ±.001				GA		
.015 ±.001				APVD		
.015 ±.001				CONTR NO		
.015 ±.001				DESIGN ACTIVITY RELEASE		
.015 ±.001				SCALE		
.015 ±.001				SHEET		



NOTES CONT:

1 DISCARD HARDWARE FURNISHED WITH ITEM 29

2 GROUND LUG AND HARDWARE IS PART OF FRONT PANEL

3 SYSTEM PACK DRAWING NUMBER FOR THIS ASSEMBLY IS 936576-0001 (REF ONLY)

NOTES:

1 UNLESS OTHERWISE SPECIFIED AS SHOWN

2 PUT ITEM 61 IN ITEM 63 AND TAP TO UNIT

3 APPLY ITEM 79 BETWEEN ITEM 1 AND ITEM 43

4 ALIGN NUMBERS WITH CARD GUIDES AND THE EDGE OF ITEM 3 FLUSH WITH SURFACE A.

5 DATA TO BE TYPED BY MANUFACTURING OR BY SYSTEM TEST MARK MODEL 990, 6 SLOT CHASSIS, PNL, VOLTAGE, HZ, AMPS, & SERIAL NUMBER. FOR -0001, -0002, -0003 AND -0004 AMPS = 3.5. ALL OTHERS AMPS = 1.5. THIS LABEL IS TO BE USED ON ALL CHASSIS THAT DO NOT HAVE TI CONNECTORS ON THE MOTHERBOARD. WITH TI CONNECTORS, USE PNL 172410-0001 LABEL.

6 MOUNT ITEM 121 AGAINST BOTTOM OF CHASSIS

7 ASSEMBLE ITEMS 8, 9, & 12 PRIOR TO INSTALLATION IN CHASSIS

8 COAT OUTSIDE THREADS OF ITEM 84 PER PROCESS 131

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		11422042 (A) 26. 6/11/71 REVISED PICTORIAL & LM PER EXTENSIVE ENGINEER CHANGE	7/1/71	J. K. [Signature]
B		CN413971 (C) 27. 5/11/71 (1) ADDED PROCESS 1 (2) 5/11/71 DELETED ITEM 46 (3) 5/11/71 DELETED BALLOON 80 WAS 53 (4) 5/11/71 DELETED BALLOON 46 & REVISED HOLE PATTERN (5) ADDED ITEM 80 (6) DELETED ITEM 46 ON 11-2-71 (7) 11-2 QTY ITEM 53 WAS 7 (8) ITEM 78 WAS 947541-1	5/1/71	J. K. [Signature]
C		CN427719 (C) 27. 11/11/76 (1) REVISED PICTORIAL & LM PER EXTENSIVE ENG. CHANGE	11-11-76	J. K. [Signature]
D		CN416535 (C) 27. 11/11/76 (1) REVISED PICTORIAL & LM PER EXTENSIVE ENG. CHANGE	11-11-76	J. K. [Signature]
E		CN416582 (C) 27. 11/11/76 (1) DSHT 1 ZONE D-B BALLOON 82 WAS 68 & 35 (2) 11-2 LM ADDED ITEM 82 (3) QTY OF ITEM 68 WAS 10 (4) QTY OF ITEM 38 WAS 19 (5) QTY OF ITEM 63 WAS 19	11-11-76	J. K. [Signature]
F		CN419524 (C) 27. 11/11/76 (1) DELETED NOTE 2 (2) DELETED ITEMS 61, 62 & 63 FROM F/D 1-1-2 LM	11-11-76	J. K. [Signature]
G		CN422657 (C) 27. 11/11/76 (1) REVISED -11-2 LM & P/D PER FOLLOWING - ITEM 2 P/N WAS 944969-0001 (2) DELETED ITEM 27 (3) DELETED ITEM 78 (4) ITEM 19 QTY WAS 6 (5) ITEM 24 QTY WAS 17	11-11-76	J. K. [Signature]
H		CN417114 (C) 27. 11/11/76 (1) REVISED PICTORIAL & LM PER EXTENSIVE ENG. CHANGE	11-11-76	J. K. [Signature]

CONTINUED ON SHEET 3

PART NO	DESCRIPTION
-0008	OPER PNL, 220V, 47-63HZ, 1.75A, 250W
-0007	PROG PNL, 220V,
-0006	OPER PNL, 230V,
-0005	PROG PNL, 230V, 1.75A
-0004	OPER PNL, 100V, 3.5A
-0003	PROG PNL, 100V,
-0002	OPER PNL, 115V,
-0001	PROG PNL, 115V, 47-63HZ, 3.5A, 250W

PROCESSES:

1 SOLDER PER F-127, METHOD I

2 MARK PER F-100, METHOD II, CLASS I, COLOR BLACK

3 SEAL PER F-650, METHOD I, USING ITEMS B5 AND B6.

REV STATUS OF SHEETS	REV	AE	AB	AE
	SH	1	2	3

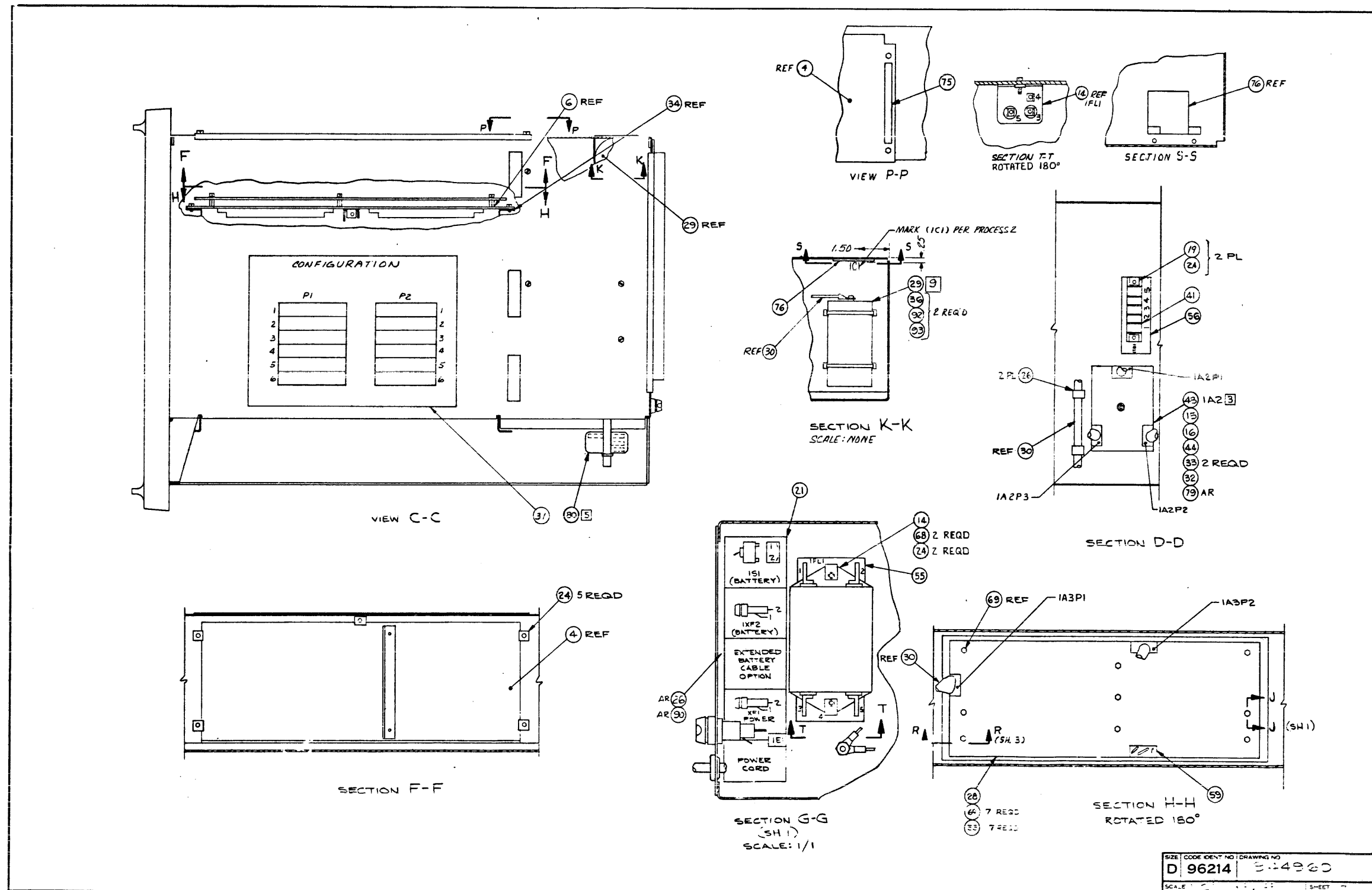
QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

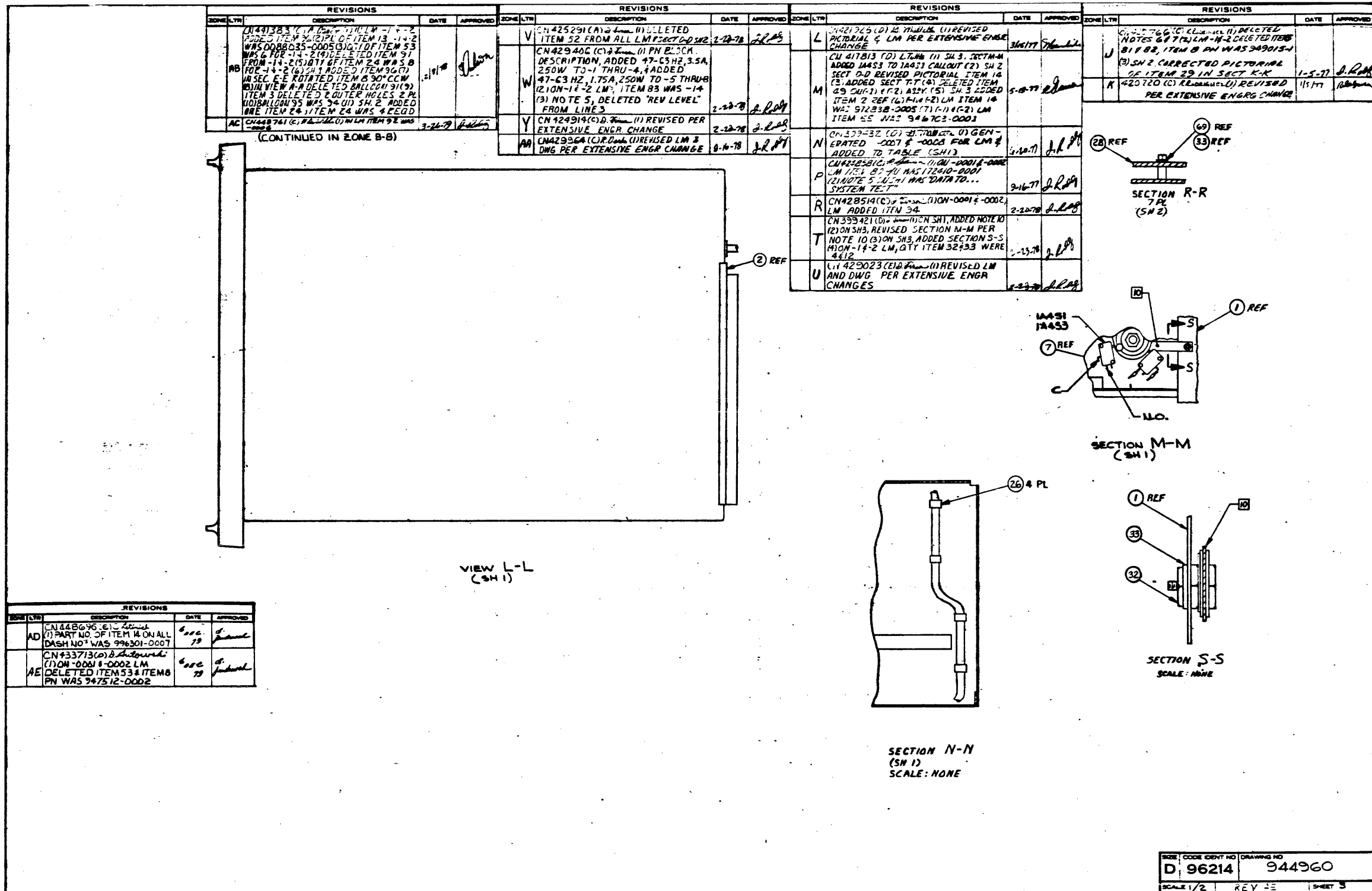
UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 FR	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES 21°
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS & 0.010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS & 0.02

HOLE TOLERANCE	SIZE	APPROVAL
.013 +.004	.125	044962-7626
.125 -.001	1.000	11/11/76
.300 +.008	1.000	
.750 -.001	2.000	

DATE	BY	DESCRIPTION
10-12-75	J. K. [Signature]	DESIGN
11/2/71	J. K. [Signature]	REVISED
11/2/71	J. K. [Signature]	REVISED
11/2/76	J. K. [Signature]	REVISED

TEXAS INSTRUMENTS EQUIPMENT GROUP	
CHASSIS ASSY, 7 INCH, 20 AMP POWER SUPPLY	
SIZE: D	CODE IDENT NO: 96214
DRAWING NO: 944960	
SCALE: 1/2	SHEET 1 OF 3





TEXAS INSTRUMENTS INCORPORATED DATE 11/05/79 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0944960-0001 REV AE

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0940099-0001	CHASSIS, 7 INCH	
0002	00001.000	EA		0940073-0001	COVER, ACCESS, REAR, 7 INCH	
0003	00002.000	EA		0946700-0002	LABEL, GENERAL PURPOSE	
0004	00001.000	EA		2261650-0001	COVER, SIDE, 7 INCH	
0005	00001.000	EA		0945152-0001	FILTER, AIR, 990 CHASSIS	
0006	00001.000	EA		0945010-0001	BACKPANEL ASSY, 7IN 990	
0006A				1A1		
0007	00001.000	EA		0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990	
0007A				1A4		
0008	00002.000	EA		2262142-0004	FAN ASSY, LUGGED, 8 INCH	
0008A				101 102		
0009	00001.000	EA		0232092-0003	HOLDER FUSE MKP-MH	BUS -MKP-MH
0009A				1XF1		
0010	00001.000	EA		0416434-0503	FUSE 5.0 A 250V 3AG	LIT - 312005
0010A				1P1		
0011	00001.000	EA		0946630-0001	LABEL, BATTERY CONTROLS, BLANK	
0012	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA	
0013	00001.000	EA		0975523-0002	CABLE ASSY, POWER CORD	
0014	00001.000	EA		2230020-0001	FILTER, POWERLINE, RFI SUPPRESSION	
0014A				1FL1		

CHASSIS ASSY, 7IN, PROG PNL, 115V
 DATE 11-6-79
 PROJECT NO. 7506
 PART NUMBER LM0944960-0001
 REV AE
 TA 1389 30 V/A

TEXAS INSTRUMENTS INCORPORATED DATE 11/05/79 LIST OF MATERIAL PAGE 2 of PART NUMBER LM0944960-0001 REV AE

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0015	00002.000	EA		0972684-0013	SCREW, THD FRNG, HEX-NSHR HD, 6-32X.625LG	
0016	00001.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0017	00002.000	EA		0972679-0017	SCREW, PLASTITE, HEX-NSHR HD, 6-19X1.00LG	
0019	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRN, SLOT HK NSR HD	
0021	00001.000	EA		0945230-0001	LABEL, SIDE	
0023	00002.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE	
0024	00009.000	EA		0972002-0001	FASTENER, 6-20X.34LG, SPEED NUT, STL	070559-C13209-6Z-6T
0026	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE	
0028	00001.000	EA		0944970-0001	POWER SUPPLY, 20 AMP, 990	
0028A				1A3		
0029	00001.000	EA		0972930-0068	CAP, FIXED, 1700MF, 250V	
0029A				1C1		
0030	00001.000	EA		0944955-0001	WIRING HARNESS, 7IN CHASSIS, 20AMP PS	
0031	00001.000	EA		0944903-0001	LABEL, CONFIGURATION, 7IN	
0032	00005.000	EA		0416430-0022	NUT, PLAIN 6-32 UNC-20 HEX CRES, SMALL	GPL - NS4071C4
0033	00013.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	GPL - NS3533-71
0004	00002.000	EA		0945009-0001	INSULATOR, CHASSIS, 7IN	
0036	00002.000	EA		0972630-0034	STRAP, TIE DOWN, CABLE	PND - SST45
0000	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990	
0000	00002.000	EA		0944960-0001	CHASSIS ASSY, 7IN, PROG PNL, 115V	

CHASSIS ASSY, 7IN, PROG PNL, 115V
 DATE 11-6-79
 PROJECT NO. 7506
 PART NUMBER LM0944960-0001
 REV AE
 TA 1389

TEXAS INSTRUMENTS INCORPORATED DATE 11/05/79 LIST OF MATERIAL PAGE 3 of PART NUMBER LM0944960-0001 REV AE

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS	
0041A				1YB1		
0042	00002.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN	
0043	00001.000	EA		0946650-0001	AC POWER CONVERTER	
0043A				1A2		
0044	00001.000	EA		0416622-0013	WASHER #6 FLAT	GPL - AN960C6L
0050	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10	
0051	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0054	00001.000	EA		0946637-0004	LABEL, POWER	
0055	00001.000	EA		0946703-0002	LABEL, FILTER	
0056	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD	
0057	REF	EA		0946602-9901	WIRE LIST, 7IN CHASSIS	
0058	REF	EA		0946709-9901	WIRING DIAGRAM, 7IN CHASSIS	
0059	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT	
0064	00002.000	EA		0411027-0808	WASHER, FLAT, #10	
0068	00006.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD
0069	00007.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32	
0072	00002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L
0075	00002.000	EA		0947544-0001	LABEL, CAUTION	
0076	00001.000	EA		0947510-0001	INSULATOR, CAPACITOR	

CHASSIS ASSY, 7IN, PROG PNL, 115V
 DATE 11-6-79
 PROJECT NO. 7506
 PART NUMBER LM0944960-0001
 REV AE
 TA 1389

TEXAS INSTRUMENTS INCORPORATED DATE 11/05/79 LIST OF MATERIAL PAGE 4 of PART NUMBER LM0944960-0001 REV AE

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0079	AR	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340
0080	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION	
0083	00008.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX	
0084	00002.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES	
0085	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C	
0086	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW	
0087	00004.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRN, SLOT HK NSR HD	
0090	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2
0092	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES	
0093	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0094	REF	EA		0948952-9901	T.P., SYS TEST, 990 CRPT AND ASSOC PRPHLS	
0095	00001.000	EA		0936406-0001	FAN PLATE, 7 INCH CHASSIS	
0096	00001.000	EA		0946740-0001	PLUG, INTERRUPT, 7IN, STD	

CHASSIS ASSY, 7IN, PROG PNL, 115V
 DATE 11-6-79
 PROJECT NO. 7506
 PART NUMBER LM0944960-0001
 REV AE
 TA 1389

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0002		REV AE	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0940099-0001	CHASSIS, 7 INCH						
0002	00001.000	EA		0940073-0001	COVER, ACCESS, REAR, 7 INCH						
0003	00002.000	EA		0946700-0002	LABEL, GENERAL PURPOSE						
0004	00001.000	EA		2261650-0001	COVER, SIDE, 7 INCH						
0005	00001.000	EA		0945152-0001	FILTER, AIR, 990 CHASSIS						
0006	00001.000	EA		0945010-0001	BACKPANEL ASSY, 7IN 990						
0006A					1A1						
0007	00001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990						
0007A					1A4						
0008	00002.000	EA		2262142-0004	FAN ASSY, LUGGED, 8 INCH						
0008A					1B1 1B2						
0009	00001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS	-HKP-HH				
0009A					1XF1						
0010	00001.000	EA		0416434-0503	FUSE 5.0 A 250V 3AG	LIT	- 312005				
0010A					1F1						
0011	00001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK						
0012	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0013	00001.000	EA		0975522-0002	CABLE ASSY, POWER CORD						
0014	00001.000	EA		2210820-0001	FILTER, POWERLINE, RFI SUPPRESSION						
0014A					1FL1						
DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, OPER PNL, 115V				
APPR. MFG.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0944960-0002 AE				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944960-0002		REV AE	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0079	AR	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340					
0080	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION						
0083	00008.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0084	00002.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES						
0085	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C						
0086	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0087	00004.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM, SLOT HX MSR HD						
0090	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2					
0092	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES						
0093	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0094	REF	EA		0948952-9901	T.P., SYS TEST, 990 CHPT AND ASSOC PRPHLS						
0095	00001.000	EA		0936406-0001	FAN PLATE, 7 INCH CHASSIS						
0096	00001.000	EA		0946740-0001	PLUG, INTERRUPT, 7IN, STD						
DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, OPER PNL, 115V				
APPR. MFG.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0944960-0002 AE				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944960-0002		REV AE	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015	00002.000	EA		0972684-0013	SCREW, THD FRMG, HEX-WSHR HD, 6-32X.625LG						
0016	00011.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0017	00002.000	EA		0972679-0017	SCREW, PLASTITE, HEX-WSHR HD, 6-19X1.00LG						
0019	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX MSR HD						
0021	00001.000	EA		0945230-0001	LABEL, SIDE						
0023	00002.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE						
0024	00009.000	EA		0972802-0001	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C13209-6Z-67					
0026	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE						
0028	00001.000	EA		0944970-0001	POWER SUPPLY, 20 AMP, 990						
0028A					1A3						
0029	00001.000	EA		0972930-0068	CAP, FIXED, 1700MF, 250V						
0029A					1C1						
0030	00001.000	EA		0944955-0001	WIRING HARNESS, 7IN CHASSIS, 20AMP PS						
0031	00001.000	EA		0944903-0001	LABEL, CONFIGURATION, 7IN						
0032	00005.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0033	00013.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS3533-71					
0034	00002.000	EA		0945039-0001	INSULATOR, CHASSIS, 7IN						
0036	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST4S					
0038	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990						
0040	00002.000	EA		0946668-0001	PIN, GUIDE, POWER SUPPLY						
DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, OPER PNL, 115V				
APPR. MFG.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0944960-0002 AE				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944960-0002		REV AE	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS						
0041A					1TB1						
0042	00002.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN						
0043	00001.000	EA		0946650-0001	AC POWER CONVERTER						
0043A					1A2						
0044	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0050	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10						
0051	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0054	00001.000	EA		0946637-0004	LABEL, POWER						
0055	00001.000	EA		0946703-0002	LABEL, FILTER						
0056	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0057	REF	EA		0946682-9901	WIRE LIST, 7IN CHASSIS						
0058	REF	EA		0946709-9901	WIRING DIAGRAM, 7IN CHASSIS						
0059	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT						
0064	00002.000	EA		0411027-0808	WASHER, FLAT, #10						
0068	00006.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD					
0069	00007.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0072	00002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L					
0075	00002.000	EA		0947544-0001	LABEL, CAUTION						
0076	00001.000	EA		0947510-0001	INSULATOR, CAPACITOR						
DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, OPER PNL, 115V				
APPR. MFG.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0944960-0002 AE				

Chassis Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0003		REV AE	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0944960-0001	CHASSIS ASSY, 7IN, PROG PNL, 115V						
0102	00001.000	EA		0945125-0001	KIT INTL VOLT 6 SLOT (100 VOLT SERVICE)						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, PROG PNL, 100V				
APPROV. DATE	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0944960-0003 AE		
TL 1284P											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0004		REV AE	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0944960-0002	CHASSIS ASSY, 7IN, OPER PNL, 115V						
0102	00001.000	EA		0945125-0001	KIT INTL VOLT 6 SLOT (100 VOLT SERVICE)						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, OPER PNL, 100V				
APPROV. DATE	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0944960-0004 AE		
TL 1284P											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0005		REV AE	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0944960-0001	CHASSIS ASSY, 7IN, PROG PNL, 115V						
0102	00001.000	EA		0945125-0002	KIT INTL VOLT 6 SLOT (230 VOLT SERVICE)						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, PROG PNL, 230V				
APPROV. DATE	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0944960-0005 AE		
TL 1284P											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0006		REV AE	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0944960-0002	CHASSIS ASSY, 7IN, OPER PNL, 115V						
0102	00001.000	EA		0945125-0002	KIT INTL VOLT 6 SLOT (230 VOLT SERVICE)						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS ASSY, 7IN, OPER PNL, 230V				
APPROV. DATE	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	LM0944960-0006 AE		
TL 1284P											

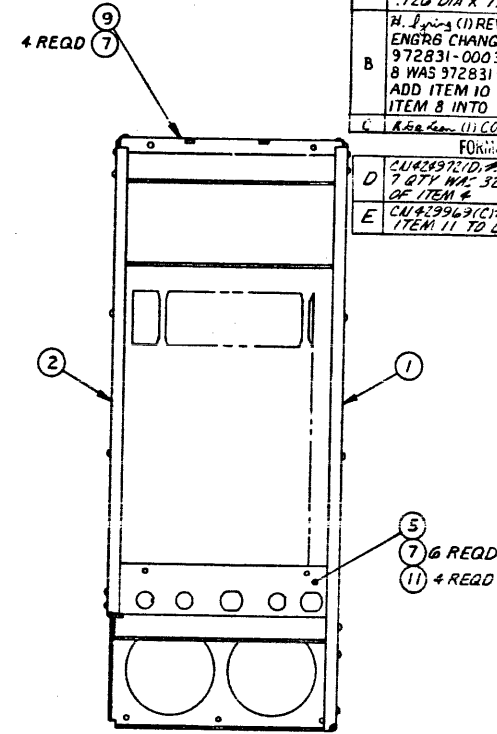
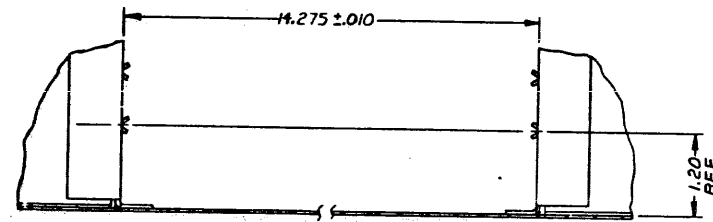
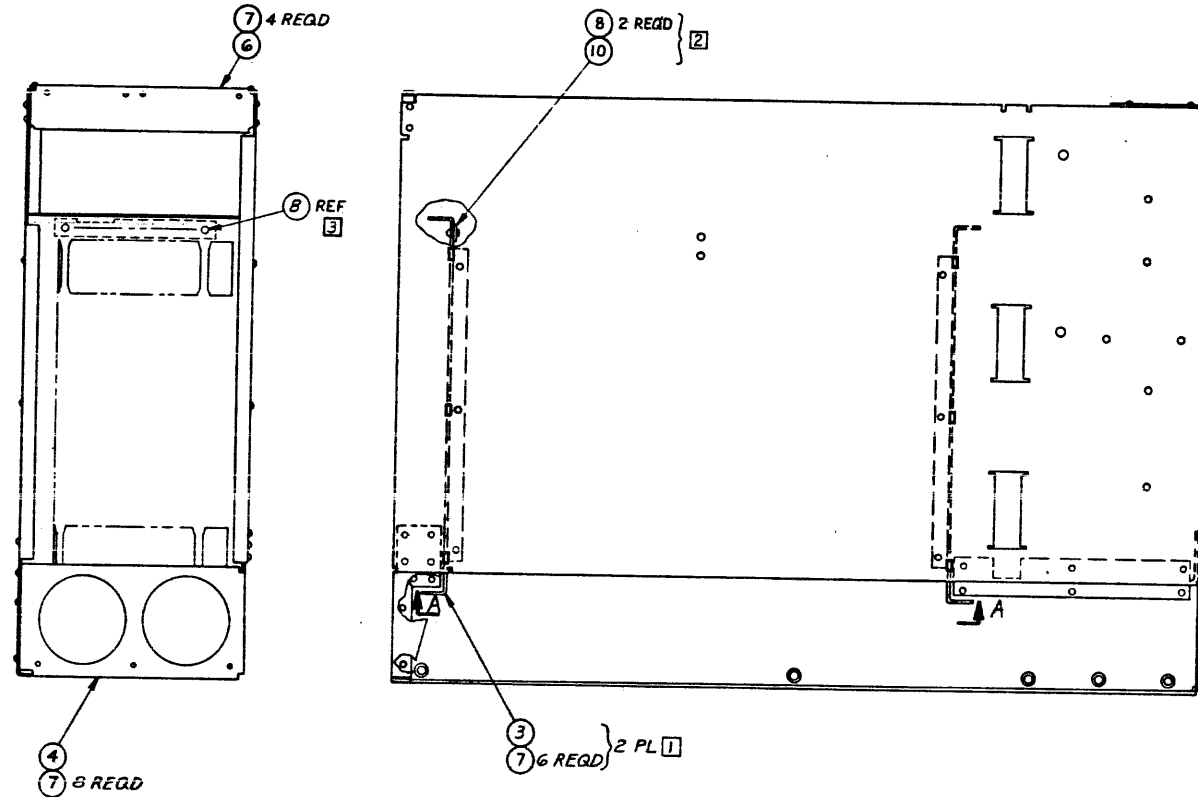
TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0007		REV AE		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0944960-0001	CHASSIS ASSY, 7IN, PROG PNL, 115V							
0102	00001.000	EA		0945125-0003	KIT INTL VOLT 6 SLOT (220 VOLT SERVICE)							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY, 7IN PROG PNL, 220V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0944960-0007		REV AE		

TL 1364P

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944960-0008		REV AE		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0944960-0002	CHASSIS ASSY, 7IN, OPER PNL, 115V							
0102	00001.000	EA		0945125-0003	KIT INTL VOLT 6 SLOT (220 VOLT SERVICE)							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY, 7IN OPER PNL, 220V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0944960-0008		REV AE		

TL 1364P

NOTES: UNLESS OTHERWISE SPECIFIED:
 1 INSERT TABS ON ITEM 3 INTO SLOTS IN ITEMS 1 AND 2
 2 INSTALL ITEMS 8 AND 10 TO ITEM 3 PRIOR TO INSTALLATION TO ITEMS 1 AND 2
 3 INSTALL ITEM 8 NEAR SIDE



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	G. MILLER (1) ITEM 7 WAS 972446-0007 PH, RIVET, .126 DIA X 3/16 (2) ITEM 8 WAS 972446-0006 PH, RIVET, .126 DIA X 1/8	5-16-77	AKP
B	H. Spring (1) REVISED PER EXTENSIVE ENGRS CHANGES (2) PL, ITEM 7 WAS 972831-0003 .124 DIA X .155, ITEM 8 WAS 972831-0001, .124 DIA X .195, ADD ITEM 10 (3) NOTE 2 WAS "INSTALL ITEM 8 INTO ITEM 3..."	11-14-77	AKP
C	K. B. G. (1) COMPUTERIZED LM	12-16-77	AKP
FORMAL RELEASE			
D	CA 4297210 (1) CHASSIS LM ITEM 7 QTY WAS 32 (2) REVISED PICTORIAL OF ITEM 8	4-16-78	J.R.S.
E	CA 4296310 (1) CHASSIS LM ADDED ITEM 11 TO LM & FID	4-20-78	J.R.S.

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
1	10	2261641-0001	KEY BAR		
1	9	97041-0001	PLATE, SIDE, LEFT		
2	8	972831-0004	RIVET, 1/8 X .275		
32	7	972831-0002	RIVET, 1/8 X .195		
1	6	940112-0001	BRACKET, CORNER		
1	5	940109-0001	CORNER BRACKET, REAR		
1	4	940105-0001	CORNER BRACKET, FRONT		
2	3	940101-0001	CARD GUIDE		
1	2	940107-0001	CHASSIS COVER		
1	1	940110-0001	CHASSIS BASE		

PARTS LIST		UNLESS OTHERWISE SPECIFIED	
• DIMENSIONS ARE IN INCHES	• ANGLES 90°	• TOLERANCES	• 3 PLACE DECIMALS = .010
• INTERPRET DRAWING PER MIL-D-1000	• REMOVE ALL BURRS AND SHARP EDGES	• DIMENS TOL. LIMITS APPLY BEFORE PROCESSES	• PARENTHESES INFO FOR REF ONLY
• HOLE TOLERANCE	THRU - .004	THRU - .126	THRU - .006
	THRU - .001	THRU - .250	THRU - .001
	THRU - .508	THRU - .310	THRU - .012
	THRU - .625	THRU - .625	THRU - .001

344240	7506	DATE	3-6-77	DESIGNED BY	J.R.S.
NEXT ASSY	SEC 21	DATE	8-5-77	DESIGNED BY	J.R.S.
APPLICATION		DATE	8/2/77	DESIGNED BY	J.R.S.
		DATE	8/2/77	DESIGNED BY	J.R.S.
		DATE	11/71	DESIGNED BY	J.R.S.

TEXAS INSTRUMENTS INCORPORATED DALLAS, TEXAS	
CHASSIS, 7 INCH	
FILE NUMBER	D96214
DRAWING NO	940099

SEQ NO	IDENT	FSPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	



TEXAS INSTRUMENTS
INCORPORATED

DATE 04/17/78

LIST OF MATERIAL

PAGE 1 of

PART NUMBER
LM0940099-0001

REV
E

PART NO.	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0940110-0001	CHASSIS BASE	
0002	00001.000	EA		0940107-0001	CHASSIS COVER	
0003	00002.000	EA		0940101-0001	CARD GUIDE, 7 INCH	
0004	00001.000	EA		0940105-0001	CORNER BRACKET, FRONT, 7 INCH	
0005	00001.000	EA		0940109-0001	CORNER BRACKET, REAR, 7 INCH	
0006	00001.000	EA		0940112-0001	BRACKET, CORNER, 7 INCH	
0007	00034.000	EA		0972831-0002	RIVET, 1/8X.195, TUBULAR, STEEL, BLIND	019738-1821-0406
0008	00002.000	EA		0972831-0004	RIVET, 1/8X.275, TUBULAR, STEEL, BLIND	019738-1821-0410
0009	00001.000	EA		0940111-0001	PLATE, SIDE, LEFT, 7 INCH	
0010	00001.000	EA		2261641-0001	KEYBAR, 7 INCH CHASSIS	
0011	00004.000	EA		0972831-0001	RIVET, 1/8X.155, TUBULAR, STEEL, BLIND	019738-1821-0404

DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>L. Reed</i>	4-18-78			CHASSIS, 7 INCH
PROJ. ENG.	DATE	PROJ. ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
						7506

PART NUMBER	REV
LM0940099-0001	E

NOTES CONT FROM SH 1

6. ON REV B PWB'S

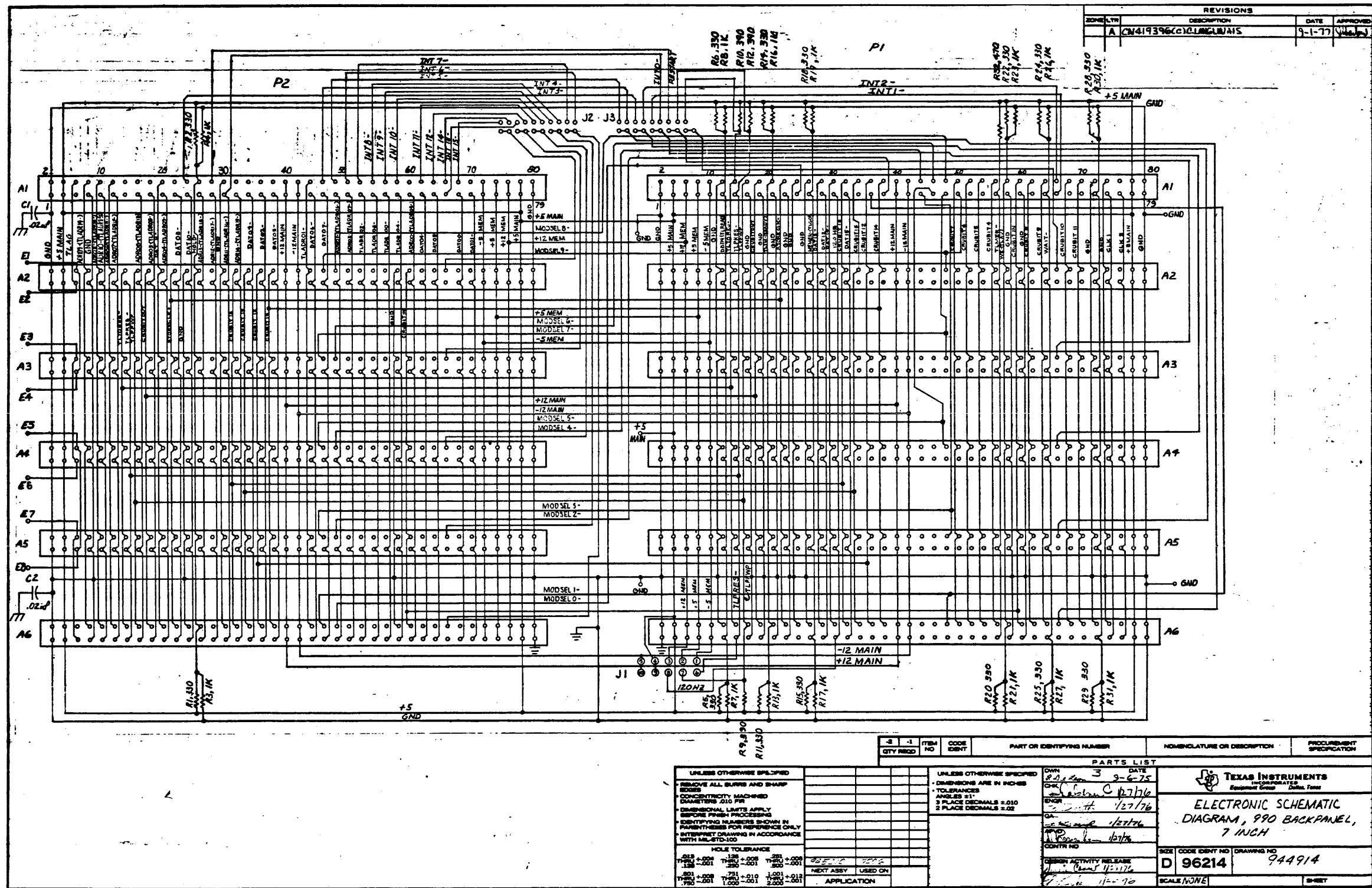
- a) CUT ETCH CONNECTING PLATE TO GROUND PLANE ON COMPONENT SIDE OF BOARD
- b) USING ITEM 21 BUS WIRE WITH TEFLON INSULATION, CONNECT P2-A4-B9 TO P2-A3-B9
- c) ENLARGE THE POWER SUPPLY ALIGNMENT PIN MOUNTING HOLES LOCATED AT BOTH SIDES OF THE PWB BETWEEN A4 AND A5 TO .194 DIA

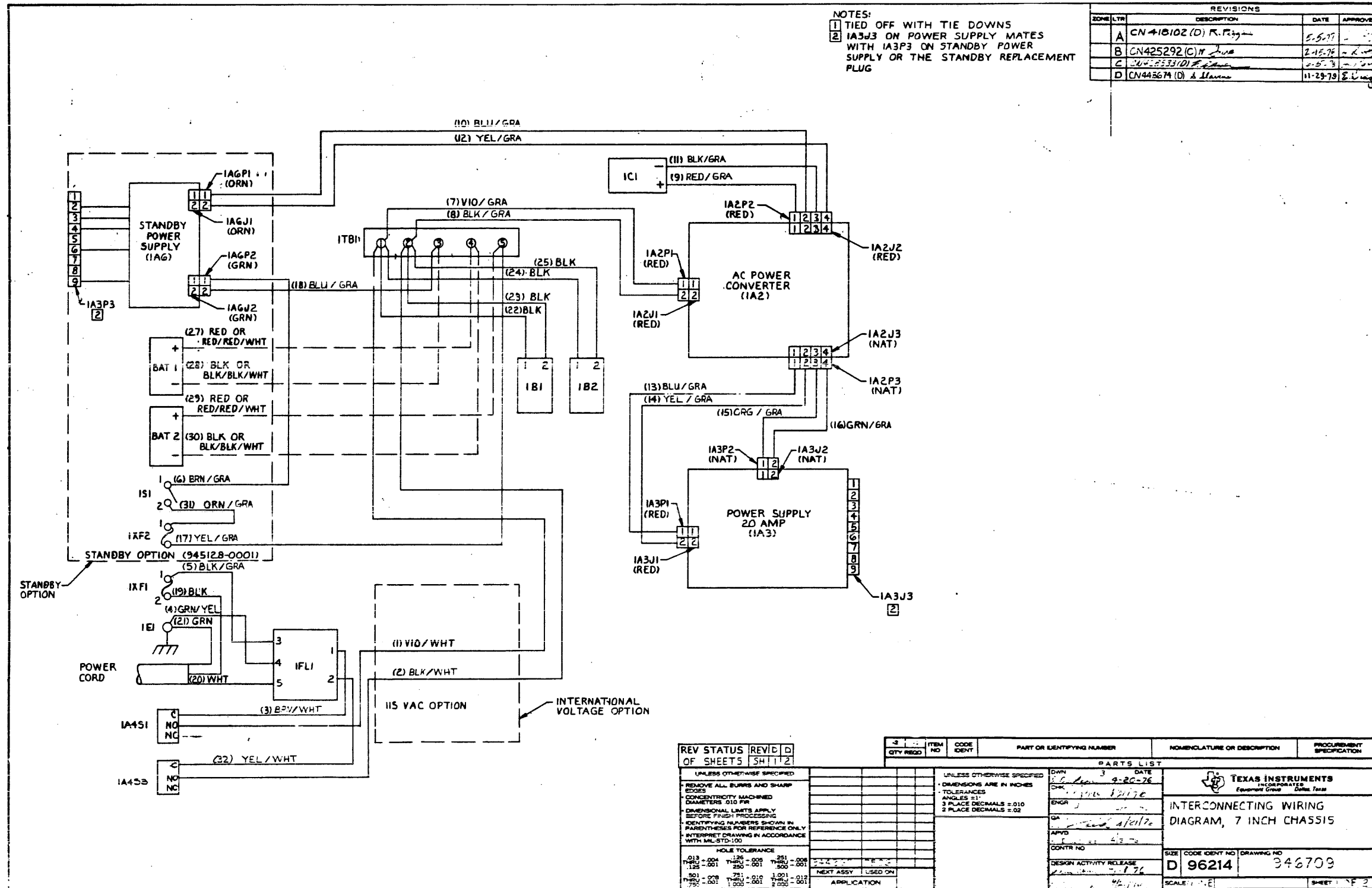
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE APPROVED
	J	CN441513 (1) (1) ADDED ITEMS 26, 27 AND 29 (2) QTY OF ITEM 25 WAS 3 (3) UPDATED REVISION LEVEL BLOCK (4) ADDED SH 2 (5) ITEM 16 PN WAS -0062 (6) ADDED R32 TO F/D (7) DELETED ITEM 13	9-21-77 J. R. [Signature]
	K	CN442306 (D) 2. [Signature] (1) ON LM ITEM 26 WAS PN 972742-1 (2) UPDATED REV LEVEL BLK	11-2-78 [Signature]
	L	CN442671 (D) 2. [Signature] (1) ADD SER NO LABEL TO SH. 1 Z-C4 (2) UPDATE REV LEVEL	12/5/78 [Signature]
	M	CN441382 (A) (1) (1) LM DELETED ITEM 24 (2) DELETED VALLOC 24 IN D-6 (3) UPDATED REV LEVEL BLOCK	12/6/78 [Signature]
	U	CN443355 (D) 2. [Signature] (1) UPDATED REV LEVEL BLOCK	9-18-79 E. [Signature]
	P	CN448719 (D) RGVIRRY (1) LM-0001 ITEM 8 QTY WAS 12.0, ITEM 8A WAS DESC. A1P1 THRU A6P1, A1P2 THRU A6P2, AND ITEM 8B WAS DELETED (2) ADDED ITEM 29 TO LM-0001 (3) UPDATED REVISION LEVEL BLOCK	3-6-80 E. [Signature]

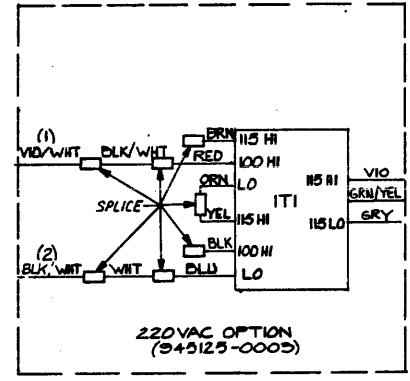
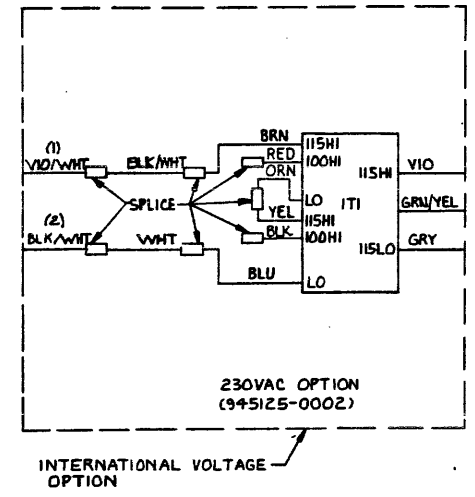
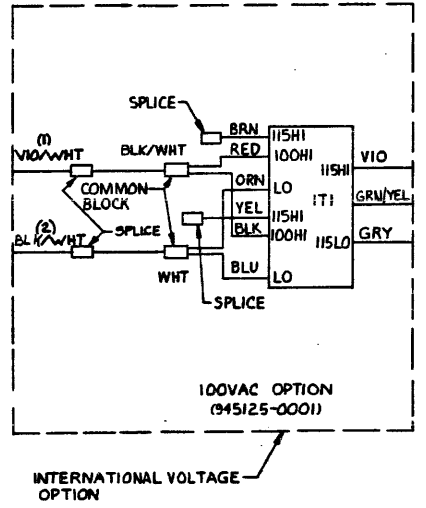
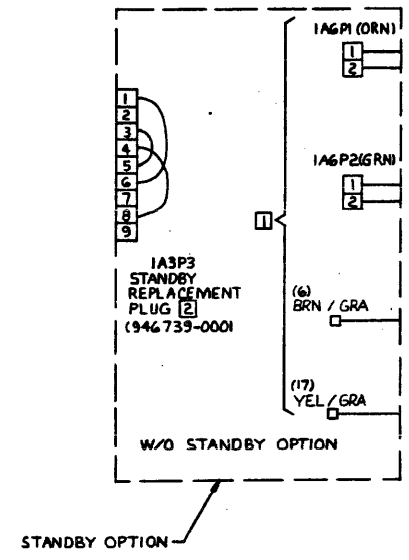
 TEXAS INSTRUMENTS	PART NO. D96214	REV. 345310	P
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TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945010-0001		REV P		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945011-0001	PWB, BACKPANEL, 7IN, 990							
0002	00001.000	EA		0945012-0001	INSULATOR, BACKPANEL, 7IN, 990							
0003	00001.000	EA		0937524-0001	COMB/STIFFENER, 7 INCH							
0004	00004.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES							
0005	00004.000	FA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS	-39649-244					
0006	00004.000	EA		0411027-0003	WASHER .125 X .250 X .022 FLAT CRES	QPL	- NS15795-003					
0007	00004.000	FA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL	- NS33333-70					
0008	00000.000	EA		0996562-0001	CONNECTOR, PWB CARD-EDGE	001312-2MML400-11						
0008A					THIS IS AN ALTERNATE FOR							
0008B					ITER 29.							
0009	00006.000	EA		0803153-0033	NUT SLEEVE-SHOULDERED BRASS							
0010	00002.000	FA		0972846-0001	HEADER PLASTIC W/M POST 150 GRID							
0010A					1A1J1A 1A1J1B							
0011	00002.000	FA		0972965-0028	CAP, FIXED .220 MF 10% 50V							
0011A					C1 C2							
0014	00003.000	EA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	ROM	- R-25					
0014A					R9 R10 R12							
0015	00014.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROM	- R-25					
0015A					R1 R2 R5 R6 R11 R14 R15 R18							
0015B					R20 R22 R24 R25 R28 R29							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
			<i>J.R. [Signature]</i>	2-13-80			BACKPANEL ASSY, 7IN 990					
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							7506					
							PART NUMBER LM0945010-0001					
							REV P					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945010-0001		REV P		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0016	00014.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROM	- R-25					
0016A					R3 R4 R7 R8 R13 R16 R17 R19							
0016B					R21 R23 R26 R27 R30 R31							
0017	REF	EA		0945014-9901	SPECIFICATION, BACKPANEL ELECTRICAL, 990							
0018	REF	EA		0944914-9901	SCHEMATIC, 990 BACK PANEL, 7 INCH							
0019	00001.000	FA		0998062-0033	STANDOFF, .138-32 X .500LG THD SWAGE	CAM	-CP350130013040					
0020	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROM	- R-25					
0020A					R32							
0021	AR	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL	-01349					
0025	00004.000	EA		0972699-0003	HEADER, W/M PIN 10 POSTS	022526-65542-110						
0025A					1A1J2A, 1A1J2B, 1A1J3A, 1A1J3B							
0026	00000.000	FA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75360-007						
0026A					1A1E1 THRU 1A1E8							
0027	00004.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0027A					1A1P1 THRU 1A1P4							
0028	AP	FT		0411400-0022	WIRE 22AWG ELECTRO-TIN-PLATED, COPPER							
0029	00012.000	FA		0972676-0001	CONNECTOR-CARD EDGE, 80 PIN, SOLDER POST							
0029A					A1P1 THRU A6P1							
0029B					A1P2 THRU A6P2							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							BACKPANEL ASSY, 7IN 990					
APP. MFG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							PART NUMBER LM0945010-0001					
							REV P					








SIZE	CODE IDENT NO	DRAWING NO
D	96214	946709
SCALE NONE	REV D	SHEET 2

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
944960	7506	A	CN406721 (B) <i>L. Henry</i>	1/10/76	<i>Henry</i>
		B	CN408047 (C) <i>L. Henry</i>	3/31/76	<i>Henry</i>
		C	CN413973 (C) <i>L. Henry</i>	4/8/76	<i>Henry</i>
		D	CN419143 (D) <i>C. Ras...</i>	5-20-77	<i>Ras...</i>
		E	CN446480 (C) <i>K. ...</i>	4-4-79	<i>...</i>
		F	CN447428 (C) <i>K. ...</i>	6-6-79	<i>...</i>

NOTES:

- 1 INSTALL ITEM 53.
- ~~2 INSTALL ITEM 68.~~
- 3 INSTALL ITEM 91.
- ~~4 WHEN BATTERIES ARE NOT INSTALLED, COVER WIRES 20 THRU 23 USING ITEM 67.~~
- ~~5 WHEN TRANSFORMER IS USED, COVER WIRES 1 AND 2 USING ITEM 67.~~
- ~~6 INSTALL ITEM 52.~~
- 7 WIRES 27, 28, 29, AND 30 ARE THE BATTERY LEADS AND ARE PART OF THE STANDBY KIT.
- 8 WIRE NUMBER 31 IS INCLUDED IN THE STANDBY KIT ASSY.
- 9 TERMINATE WIRE NUMBERS (6) AND (17) WITH ITEM (90) AND ITEM (26) WHEN STANDBY KIT ASSY IS NOT INSTALLED.

REV																					
SHEET																					
REV STATUS OF SHEETS	REV SHEET	F	F	F																	
		1	2	3																	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± 1° 3 PLACE DECIMAL ± .010 2 PLACE DECIMAL ± .02	DWN L. HENRY 3 1/20/75	 TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	<i>R. Delaney 1/23/76</i> <i>E. Althaus 23 JAN 76</i> <i>N. ... 1/23/76</i> <i>N. ... 1/23/76</i>	
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	CONTR NO	SIZE CODE IDENT NO DRAWING NO
	<i>...</i>	A 96214 946682
	DESIGN ACTIVITY RELEASE <i>...</i>	SCALE NONE SHEET 1 OF 3

WIRING LIST, 7" CHASSIS, 20 AMP P/S

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
1	NO 18 V10/WHT				1A4S1-N0	1TB1-1		30
2	BLK/WHT				1A4S3-N0	1TB1-2		
3	BRN/WHT				1A4S1-C	1FL1-1		
4	GRN/YEL				1FL1-4	1E1		
5	BLK/GRA				1FL1-3	1XF1-1		
6	BRN/GRY				1S1-1	1A6P2-1	9	
7	V10/GRY				1TB1-1	1A2P1-1		
8	BLK/GRY				1TB1-2	1A2P1-2		
9	RED/GRY				1C1-+	1A2P2-1		
10	BLU/GRY				1A6P1-1	1A2P2-2		
11	BLK/GRY				1C1- -	1A2P2-3		
12	YEL/GRY				1A6P1-2	1A2P2-4		
13	BLU/GRY				1A2P3-1	1A3P1-1		
14	YEL/GRY				1A2P3-2	1A3P1-2		
15	ORN/GRY				1A3P2-1	1A2P3-3		
16	GRN/GRY				1A3P2-2	1A2P3-4		
17	YEL/GRY				1XF2-2	1TB1-5	9	
18	NO 18 BLU/GRY				1A6P2-2	1TB1-3		30
19	PWR CABLE BLK					1XF1-2	1	13
20	PWR CABLE WHT					1FL1-5	1	13
21	PWR CABLE GRN					1E1	3	13

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946682
SCALE	REV	SHEET
	F	2

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
22	BLOWER BLK				1B1-1	1TB1-1		8
23	BLOWER BLK				1B1-2	1TB1-2		8
24	BLOWER BLK				1B2-1	1TB1-1	1	8
25	BLOWER BLK				1B2-2	1TB1-2		8
26	LIGHTNING ARRESTOR				1TB1-1	1TB1-2	6	52
27	RED				BAT 1 (+)	1TB1-4		
28	BLK				BAT 1 (-)	1TB1-3		
29	RED				BAT 2 (+)	1TB1-5	7	
30	BLK				BAT 2 (-)	1TB1-4		
31	NO 18 ORN/GRA.				1S1-2	1XF2-1	8	
32	NO 18 YEL/WHT				1A4S3-C	1FL1-2		30

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946682
SCALE	REV	SHEET
	F	3

- NOTES:
- ITEMS 1, 22, 23, AND 27 NOT SHOWN, SEE VIEW A
 - ITEMS 2 AND 23 NOT SHOWN, SEE VIEW B
 - ITEMS REQUIRED USING ITEM 10
 - SPLIT SLEEVING, WRAP AND TIE BOTH ENDS USING ITEM 10
 - ITEM 101 IN -0001 L.M. CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

ZONE	LTR	DESCRIPTION	DATE	APPROVED
B		CN405081(A) R. 2.0mm (1) REPAIRS REV. 2" WITH CHANGE (2) REVISED PER EXTENSIVE ENGR CHANGE	4-20-76	J.R.P.
C		CN415393 (C) R. 2.0mm (1) ITEM 27 WAS INSP IN (2) ITEM 2 WAS INSP IN (3) ITEM 1 WAS INSP IN (4) H	4-20-76	J.R.P.
D		CN407534 (C) Q. Comp. (1) REV PER EXTENSIVE ENGR CHANGE	5/11/76	J.R.P.
E		CN420293 (D) J. 7.0mm (1) (2) ADDED ITEM 27 (2) QTY OF ITEM 5 WAS 2 (3) REVISED PICTORIAL TO REFLECT L.M. CHANGES (4) UPDATED REV LEVEL BLK	5-18-77	J.R.P.
F		CN424431 (C) C.M. (1) SH 2 REVISED PICTORIAL AT BROWN OUT 3, # BROWN OUT 3 (2) L.M. ITEM 4 QTY WAS 13, DELETED ITEM 5 (3) UPDATED REV LEVEL BLOCK (4) H BREAKOUT WAS 17(13)-D. (5) H 2	8-17-77	J.R.P.
G		CN428296 (E) G. 7.0mm (1) SH 2 WIRE 4 (2) F WAS 4 (2) F & C- (5) 4 WAS C- (2) 514 (2) IN L.M. ITEMS 12, 13, 16, 18 & 37 PLS WERE 538347-5899, 538347-5019, 538347-5599, 538347-5799 & 538347-9699, RESP (3) IN L.M. ITEM 10 QTY WAS 35 AND ADDED ITEM 38 TO PICTORIAL (5) UPDATED REV LEVEL BLOCK	5-2-78	J.R.P.
H		CN441020 (E) J. 2.0mm (1) IN L.M. ITEM 38 WAS 41634-3800, QTY ITEM 4 WAS 17, AND ADDED ITEMS 39, 40, 41, & 42 (2) ON SH 2, 2H 2-7, 3, CHANGED PICTORIAL 2 TO REFLECT BALLOON # 39, 40, 41, & 42 (3) UPDATED REV LEVEL BLOCK	8-11-78	J.R.P.
J		CN446276 (E) M. 2.0mm (1) IN L.M. ITEM 12, 13, 18, 19 WERE 906888-2059, 906888-3019, 906888-3759, & 906888-3639 RESPECTIVELY (2) UPDATED REV LEVEL BLK	8-11-78	J.R.P.
K		CN441018 (C) J. 2.0mm (1) REVISED PER EXTENSIVE ENGR CHGS (2) UPDATED REV LEVEL BLOCK	2-27-79	E. H. J.
L		CN437430 (C) J. 2.0mm (1) ADDED -5001 L.M. ALSO DELETED SAME ITEM NOS FROM RESPECTIVE L.M'S (2) ADDED ITEM 101 ON -0001 L.M. (3) ADDING ADRS (4) AND UPDATED REV LEVEL BLOCK (5) ADDED ON DESG. BLOCK	9-12-79	J.R.P.
M		CN447426 (C) J. 2.0mm (1) REVISED PER EXTENSIVE ENGR CHGS (2) UPDATED REV LEVEL BLOCK	9-17-79	J.R.P.
N		CN448687 (D) G. 5.0mm (1) STATION B IN D-6 SH 2 WAS 13 PLS (2) CHANGED PICTORIAL AT STATION G (3) ITEM 4 IN -5001 L.M. WAS QTY. 13 (4) ITEM 42 IN -5001 L.M. WAS QTY. 2 (5) ITEM 39 IN -0001 L.M. WAS QTY. 2 (6) UPDATED REV LEVEL BLOCK	1-8-80	J.R.P.

TABLE I

ITEM NO. (REF)	ITEM COLOR	REF DES
24	BRN	1A6P1
26	GRN	1A6P2
1	NAT	1A3P2
27	VIO	1A2P1
22	RED	1A3P1

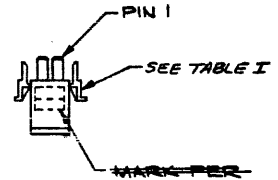
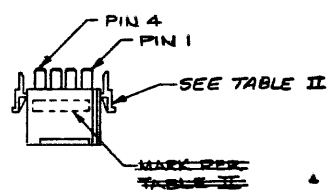


TABLE II

ITEM NO. (REF)	ITEM COLOR	REF DES
23	RED	1A2P2
2	NAT	1A2P3



944955-5001	BULK CABLE ASSY MATERIAL FOR -0001
944955-0001	WIRING HARNESS, 7 IN CHASSIS, 20 AMP PS
PART NUMBER	DESCRIPTION

REV STATUS	REV	N	N
OF SHEETS	SHEET	1	2

QTY	REV	ITEM NO.	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED:

- REMOVE ALL BURRS AND SHARP EDGES
- CONCENTRICITY MACHINED
- DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
- IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

HOLE TOLERANCE:

0.13	+0.004	126	+0.005	251	+0.006
THRU	-0.001	THRU	-0.001	THRU	-0.001

UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS ARE IN INCHES
- TOLERANCES: ANGLES ±1°
- 3 PLACE DECIMALS ±0.010
- 2 PLACE DECIMALS ±0.02

DESIGN ACTIVITY RELEASE: 5/31/76

SCALE: 1/1

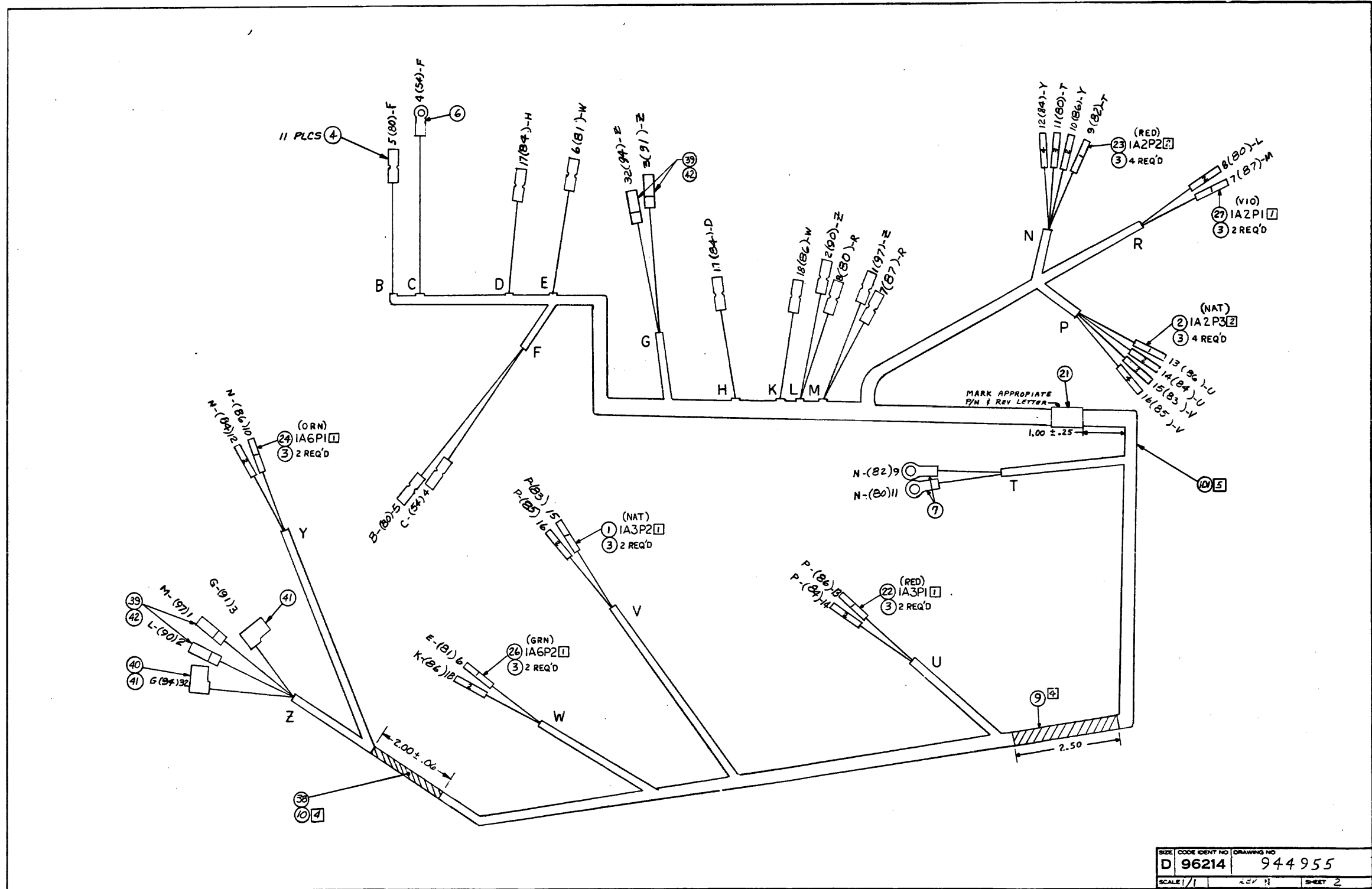
TEXAS INSTRUMENTS
Equipment Group
WIRING HARNESS,
7" CHASSIS, 20 AMP PS

SIZE: CODE IDENT NO: DRAWING NO: D 96214 944955

SHEET: 1 OF 2

PROCESSES:
1. MARK PER F-100, METHOD III, CLASS 12,
COLOR BLACK, TYPE 6

HARNESS	C	D	E	F	G	H	J	K	L	M	N
WIRING DIAGRAM 944709	*	*	A	A	C	C	C	C	C	C	D
WIRING LIST 945002	B	C	D	E	E	F	E	G	H	H	J



TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0944955-5001		REV N	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ03	00018.000	EA		0972577-0001	CONTACT, SOCKET-DUAL LANCE (REEL)	AMP - 350537-1					
JJ04	00011.000	EA		0972171-0048	TERMINAL, RCPT-#22-18AWG .032TABS PUSH/DN	AMP -42599-4 STRIP					
JJ06	00001.000	EA		2210066-0007	LUG, RING TONGUE, TAPE MTD, #6, 22-16, RED	000779-1-31885-2					
JJ07	00002.000	EA		2210066-0015	LUG, RING TONGUE, TAPE MTD, #10, RED, 22-16	000779-2-31891-2					
JJ09	00000.500	FT		0972436-0019	INSULATION SLEEVING PVC CHLORIDE	LFS - HT-105C-24					
JJ10	00037.000	EA		0972632-0003	STRAP, TIE DOWN, CABLE						
JJ10A					418212-0050 IS AN						
JJ10B					ALTERNATE PART						
JJ11	00004.000	FT		0935172-5088	WIRE, UL 1430/3317, 18AWG, GRA/BLK	-					
JJ14	00003.500	FT		0935172-5188	WIRE, UL 1430/3317, 18AWG, GRA/BRN	-					
JJ15	00001.500	FT		0935172-5788	WIRE, UL 1430/3317, 18AWG, GRA/VID	-					
JJ16	00001.000	FT		0996286-3455	WIRE, 22 AWG GRN/YEL 19 STRAND TYPE-8	ITT - 22AWG					
JJ17	00008.000	FT		0935172-5488	WIRE, UL 1430/3317, 18AWG, GRA/YEL	-					
JJ19	00002.000	FT		0935172-5288	WIRE, UL 1430/3317, 18AWG, GRA/RED	-					
JJ21	00001.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					
JJ34	00003.500	FT		0935172-5588	WIRE, UL 1430/3317, 18AWG, GRA/GRN	-					
JJ35	00003.500	FT		0935172-5388	WIRE, UL 1430/3317, 18AWG, GRA/DRN	-					
JJ36	00009.500	FT		0935172-5088	WIRE, UL 1430/3317, 18AWG, GRA/BLU	-					
JJ38	00000.200	FT		0972436-0017	INSULATION SLEEVING 3/8 X .375 PVC	MKL - HT-105C-1/8					
JJ41	00002.000	EA		0772163-0004	TERMINAL, 18-12AWG CRIMP, FLAG TYPE	000779-41532					
DRAFTSMAN DATE 11/14/79 CDD DRAFTSMAN DATE 11/14/79 DESIGN ENGINEER DATE TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0001											
APPROV. DATE 11/14/79 APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0944955-5001 REV N											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0944955-5001		REV N	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ42	00004.000	EA		0996673-0003	TERMINAL, #22-18 TAB SZ .032 X .250 U-CO	000779-42510-2					
DRAFTSMAN DATE 11/14/79 CDD DRAFTSMAN DATE 11/14/79 DESIGN ENGINEER DATE TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0001											
APPROV. DATE 11/14/79 APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0944955-5001 REV N											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0944955-0001		REV N	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ01	00001.000	EA		0972574-0005	CONNECTOR HOUSING						
JJ01A					1A3P2						
JJ02	00001.000	EA		0972574-0007	HOUSING, CONN, PLUG, LOCKING 4 CONTACTS	AMP --1-480702-0					
JJ02A					1A2P3						
JJ12	00001.500	FT		0935177-3099	WIRE, UL 1509, DBL INSULATED, 18AWG, WHT/BLK						
JJ13	00004.000	FT		0935177-3199	WIRE, UL 1509, DBL INSULATED, 18AWG, WHT/BRN						
JJ18	00003.500	FT		0935177-3799	WIRE, UL 1509, DBL INSULATED, 18AWG, WHT/VID						
JJ20	REF	EA		0949002-9901	WIRING LIST, 7IN CHASSIS WIRING HARNESS						
JJ22	00001.000	EA		0972574-0019	HOUSING, CONN, PLUG LOCKING 2 CONTACTS	AMP - 1-698-2					
JJ22A					1A3P1						
JJ23	00001.000	EA		0972574-0021	HOUSING, CONN, PLUG LOCKING 4 CONTACTS	AMP - 1-702-2					
JJ23A					1A2P2						
JJ24	00001.000	EA		0972574-0025	HOUSING, CONN, PLUG LOCKING 2 CONTACTS	AMP - 1-698-3					
JJ24A					1A6P1						
JJ26	00001.000	EA		0972574-3040	HOUSING, CONN, PLUG LOCKING 2 CONTACTS	AMP - 1-698-5					
JJ26A					1A6P2						
JJ27	00001.000	EA		0972574-0054	HOUSING, CONN, PLUG LOCKING 2 CONTACTS	AMP - 1-698-7					
JJ27A					1A2P1						
JJ37	00004.000	FT		0935177-3499	WIRE, UL 1509, DBL INSULATED, 18AWG, WHT/YEL						
JJ39	00004.000	EA		0996931-0001	RCPT, QUICK CONNECT TAB, INSULATED	000779-1-48046-0					
DRAFTSMAN DATE 11-16-79 CDD DRAFTSMAN DATE 11-16-79 DESIGN ENGINEER DATE TITLE WIRING HARNESS, 7IN CHASSIS, 20AMP PS											
APPROV. DATE 11-16-79 APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7506 PART NUMBER LM 0944955-0001 REV N											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0944955-0001		REV N	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ40	00001.000	EA		0996930-0001	RCPT, RIGHT-ANGLE, QUICK-CONNECT TAB	000779-1-480307-1					
JJ01	00001.000	EA		0944955-5001	BULK CABLE ASSEMBLY-MATERIAL FOR -0001						
DRAFTSMAN DATE 11/14/79 CDD DRAFTSMAN DATE 11/14/79 DESIGN ENGINEER DATE TITLE WIRING HARNESS, 7IN CHASSIS, 20AMP PS											
APPROV. DATE 11/14/79 APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0944955-0001 REV N											

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
944955	7506	A	CN406722(B) R. Hanner	2/10/76	J. R. Kelly
		B	CN408046(C) R. Hanner	9/9/76	J. R. Kelly
		C	CN407535 (C) A. Hanner (1) DELETED SHEET 4	5-12-76	J. R. Kelly
		D	CN420242(D) R. Hanner	5-11-76	J. R. Kelly
		E	CN424432 (C) H. Hanner	6-10-77	J. R. Kelly
		F	CN441021 (E) J. Hanner	6-30-78	J. R. Kelly
		G	CN447197(C) J. Hanner	2-28-79	J. R. Kelly
		H	CN447427(C) M. W. Wilde	6-7-79	J. R. Kelly

REV	DESCRIPTION	DATE

REV STATUS OF SHEETS	REV	H	F	H	C
SHEET	1	2	3	4	5

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS FOR SERVICE ONLY INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	DATE: 11/2/76 APPROVED: [Signature] CONTR NO: [Signature]	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas
WIRING LIST, WIRING HARNESS, 7" CHASSIS, 20 AMP P/S.		
SIZE	CODE IDENT NO	DRAWING NO
A	96214	945002
SCALE	REV	SHEET 2

NOTES:

- 1 TERMINATE START END W/ ITEM 3
- 2 TERMINATE FINISH END W/ ITEM 3
- 3 TERMINATE START END W/ ITEM 4
- 4 TERMINATE FINISH END W/ ITEM 4
- ~~5 TERMINATE START END W/ ITEM 5~~
- ~~6 TERMINATE FINISH END W/ ITEM 5~~
- 7 TERMINATE FINISH END W/ ITEM 6
- 8 TERMINATE FINISH END W/ ITEM 7
- 9 TERMINATE FINISH END W/ ITEM 41
- 10 INSTALL ITEM 40 ON FINISH END
- 11 INSTALL ITEM 39 ON FINISH END
- 12 TERMINATE START END W/ ITEM 42

SIZE	CODE IDENT NO	DRAWING NO
A	96214	945002
SCALE	REV	SHEET 2

Wiring Harness Wire List

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL. ITEM NO.
1	No.18 VIO/WHT	41	Z	M	1A451-NO	1T81-1	4 11 12	18
2	BLK/WHT	42.5	Z	L	1A453-NO	1T81-2	4 11 12	12
3	BRN/WHT	46.5	G	Z	1FL1-1	1A451-C	3 9	13
4	YEL/GRN	12.5	F	C	1FL1-4	1E1	3 7	16
5	BLK/GRA	12.5	B	F	1XF1-1	1FL1-3	3 4	11
6	BRN/GRA	43	E	W	1S1-1	1A6P2-1	3 2	14
7	VIO/GRA	14	R	M	1A2P1-1	1T81-1	1 4	15
8	BLK/GRA	14.5	R	L	1A2P1-2	1T81-2	4	11
9	RED/GRA	21	N	T	1A2P2-1	1C1 (+)	8	19
10	BLU/GRA	49	N	Y	1A2P2-2	1A6P1-1	2	36
11	BLK/GRA	21	N	T	1A2P2-3	1C1 (-)	8	11
12	YEL/GRA	49	N	Y	1A2P2-4	1A6P1-2	2	17
13	BLU/GRA	30	P	U	1A2P3-1	1A3P1-1		36
14	YEL/GRA	30	P	U	1A2P3-2	1A3P1-2		17
15	ORN/GRA	38.5	P	V	1A2P3-3	1A3P2-1		35
16	GRN/GRA	38.5	P	V	1A2P3-4	1A3P2-2	1 2	34
17	YEL/GRA	14	D	H	1XF2-2	1T81-5	3 4	17
18	No.18 BLU/GRA	35	W	K	1A6P2-2	1T81-3	1 4	36
32	No.18 YEL/WHT	47	G	Z	1FL1-2	1A453-C	3 9 10	37

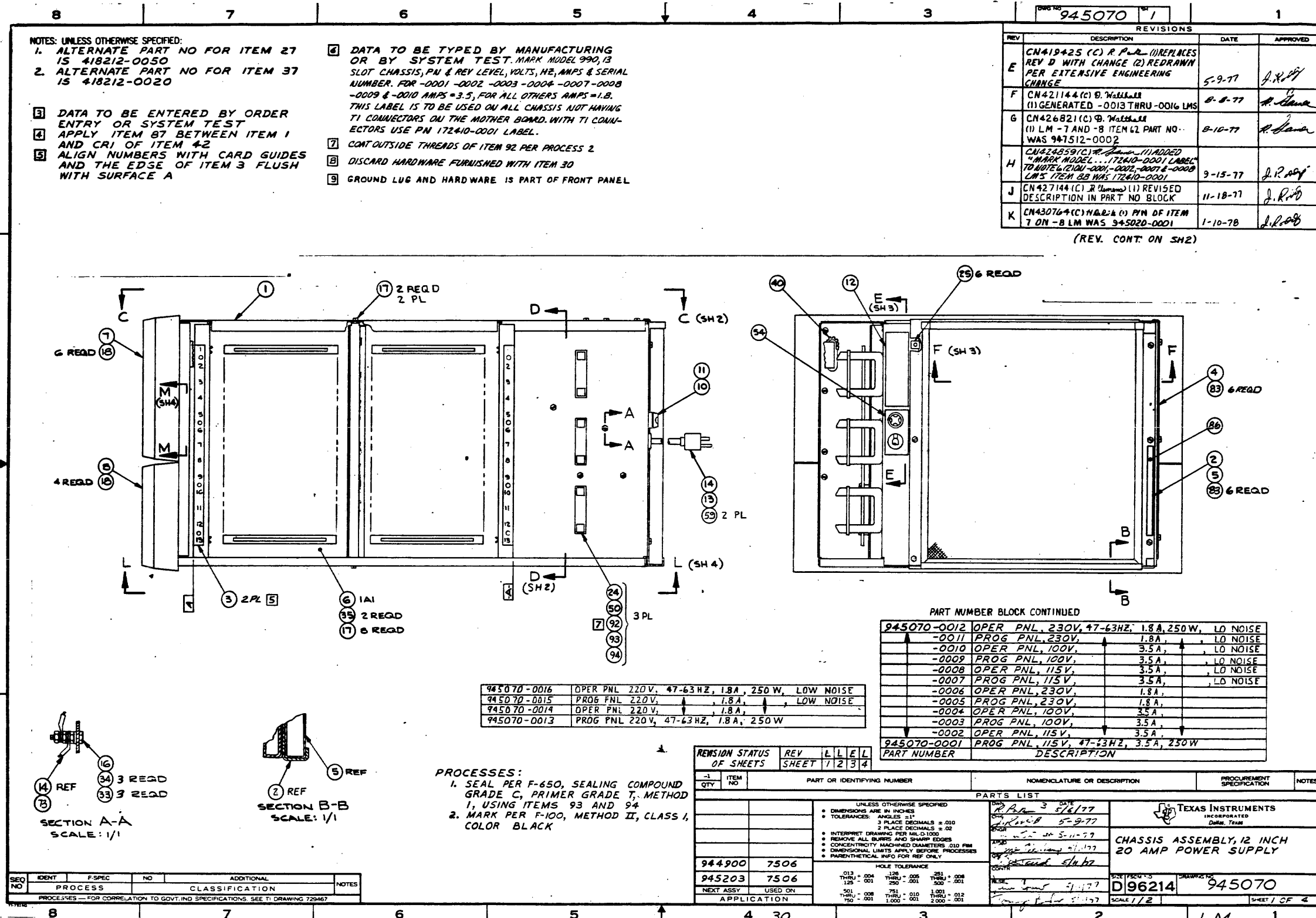
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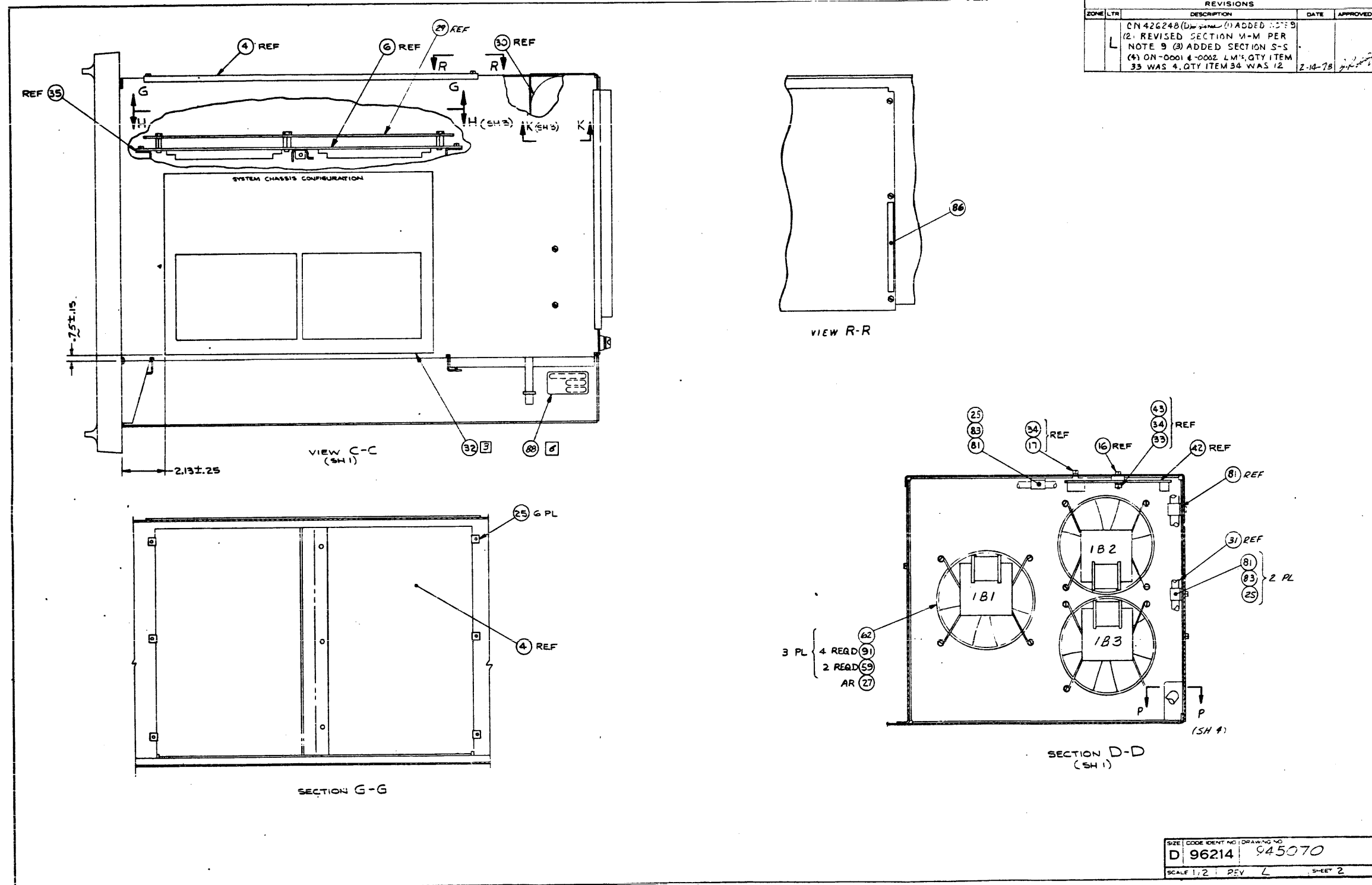
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96214

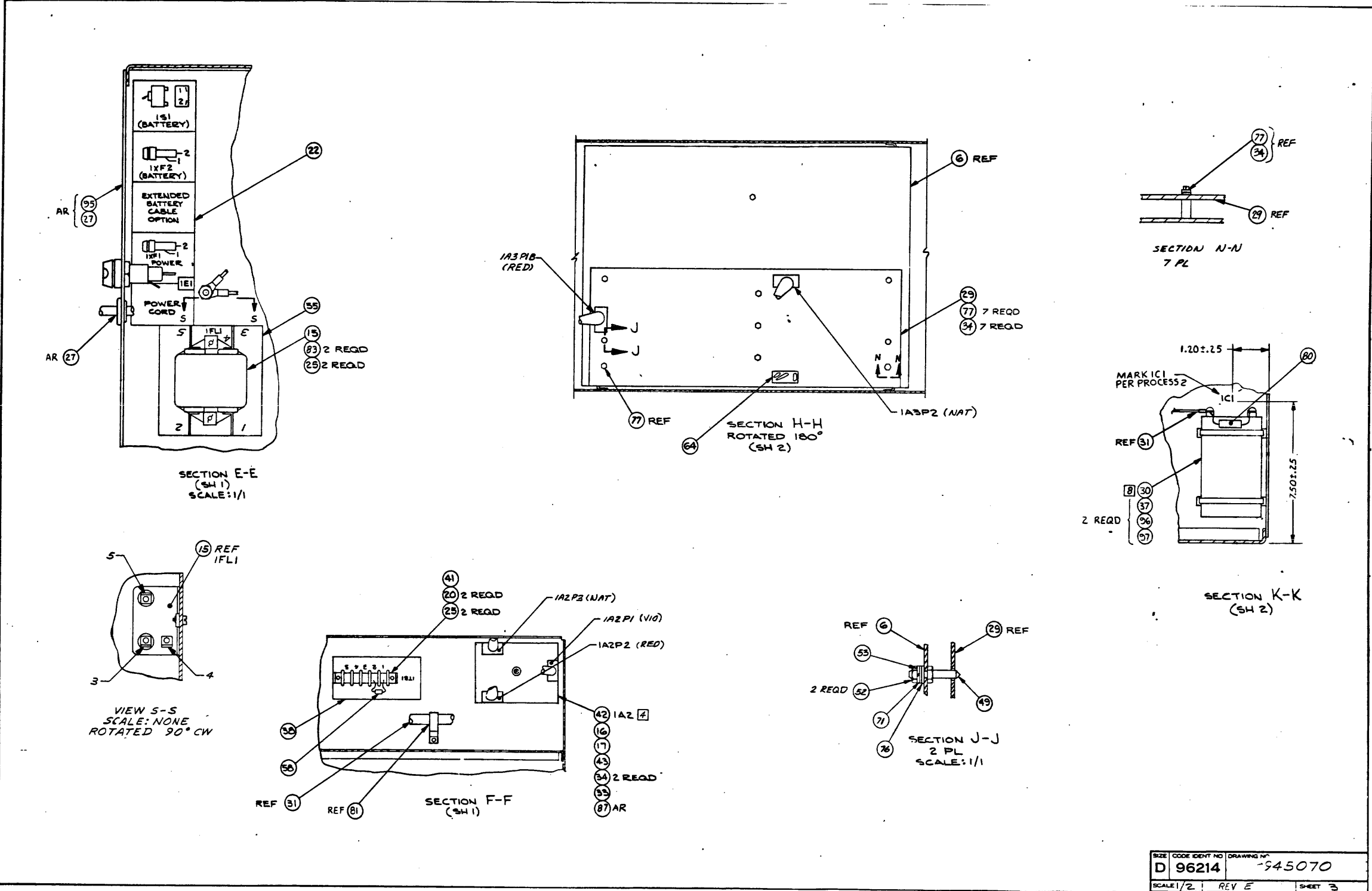
DRAWING NO.:
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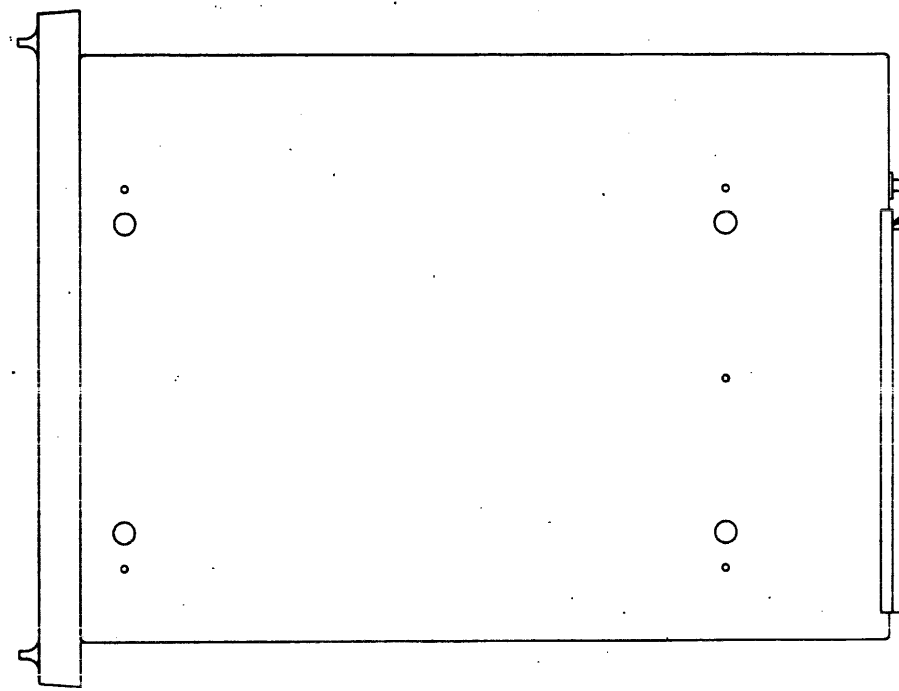
REV:
H

SHEET:
3

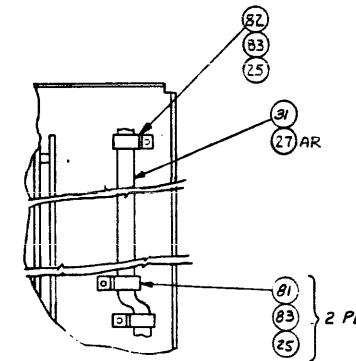
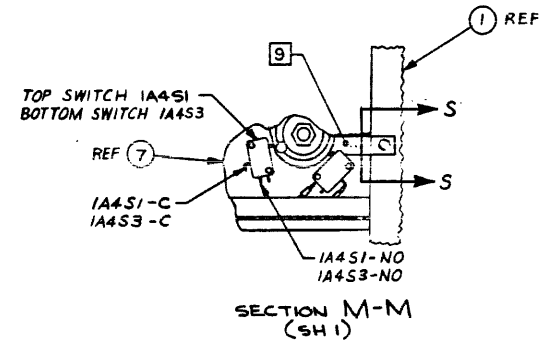
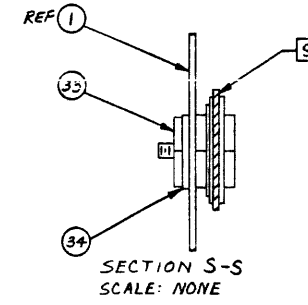








VIEW L-L
(SH 1)



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945070
SCALE 1/2	REV L	SHEET 4

TEXAS INSTRUMENTS
INCORPORATED

DATE 01/19/78 LIST OF MATERIAL PAGE 1 of 4

PART NUMBER
LM 0945070-0001 REV L

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	30031.000	EA		0945051-0001	CHASSIS- 12IN, 990	
0002	00001.000	EA		0948975-0001	COVER, ACCESS, REAR	
0003	00002.000	EA		0946700-0003	LABEL, GEN PURPOSE	
0004	00001.000	EA		0947545-0001	COVER, SIDE, 12 INCH CHASSIS	
0005	00001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN	
0006	30001.000	EA		0945015-0001	BACKPANEL ASSY-12IN, 990	
0006A					1A1	
0007	03001.000	EA		0945020-0001	FRONT PANFL ASSY, PROGRAMMER'S, 990	
0007A					1A4	
0008	00001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK	
0010	00001.000	EA		0972690-0001	FUSEHOLDER, EXTRACTOR POST	071400-342858A
0010A					1XF1	
0011	00001.000	EA		0772995-0004	FUSE 10 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA10.0
0011A					1F1	
0012	00001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK	
0013	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA	
0014	00001.000	EA		0088035-0005	CORD-GROUND PRONG PLUG POWER SERVICE	BEL - 17407
0015	30001.000	EA		0996301-0007	FILTER, POWER LINE, RFI SUPPRESSION	005245-1051
0015A					1FL1	
0016	00002.000	EA		0972684-0013	SCREW, THD FRMG, HEX-WSHR HD, 6-32X.625LG	
DRAFTSMAN: [Signature] DATE: 01/19/78 TITLE: CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V APPD. MFG. DATE: [Signature] PROJECT ENGINEER DATE: 01-23-78 RELEASED DATE: PROJECT NO. 7506 PART NUMBER: LM 0945070-0001 REV L						

TEXAS INSTRUMENTS
INCORPORATED

DATE 01/19/78 LIST OF MATERIAL PAGE 2 of 4

PART NUMBER
LM 0945070-0001 REV L

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0017	30013.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0018	00010.000	EA		0972679-0017	SCREW, PLASTIC, HEX-WSHR HD, 6-19X1.00LG	
0020	30002.000	EA		0972483-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX WSR HD	
0022	30001.000	EA		0945230-0001	LABEL, SIDE	
0024	30003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE	
0025	30022.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-6Z-67
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE	
0029	30001.000	EA		0944970-0001	POWER SUPPLY, 20 AMP, 990	
0029A					1A3	
0030	00001.000	EA		0972930-0069	CAP., 4200 MF, 250 V	
0030A					1C1	
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS	
0032	30001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990	
0033	00005.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6
0034	00013.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M35333-71
0035	00002.000	EA		0945038-0001	INSULATOR- CHASSIS, 12IN	
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD	
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990	
0040	00001.000	EA		0418082-0002	GROMMET, PLASTIC, EDGING	
DRAFTSMAN: [Signature] DATE: 01/19/78 TITLE: CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V APPD. MFG. DATE: [Signature] PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO. PART NUMBER: LM 0945070-0001 REV L						

TEXAS INSTRUMENTS
INCORPORATED

DATE 01/19/78 LIST OF MATERIAL PAGE 3 of 4

PART NUMBER
LM 0945070-0001 REV L

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS	
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER	
0042A					1A2	
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L
0049	00002.000	EA		0945668-0001	PIN, GUIDE, POWER SUPPLY	
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN	
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10	
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0054	00001.000	EA		0946637-0001	LABEL, POWER	
0055	00001.000	EA		0946703-0002	LABEL, FILTER	
0058	00001.000	EA		0944977-0001	ASSY, SURGE PROTECTOR	
0059	00008.000	EA		0972171-0048	TERMINAL, PUSH-ON, 250	
0062	00003.000	EA		0947512-0002	FAN ASSEMBLY	
0062A					1B1 1B2 1B3	
0063	REF	EA		0946685-9901	WIRE LIST, 12IN	
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT	
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS	
0071	00002.000	EA		0411027-0808	WASHER, FLAT, #10	
0073	00001.000	EA		0411324-0002	TERMINAL, LUG, RING TONGUE, NO 6	
0076	00002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L
DRAFTSMAN: [Signature] DATE: 01/19/78 TITLE: CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V APPD. MFG. DATE: [Signature] PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO. PART NUMBER: LM 0945070-0001 REV L						

TEXAS INSTRUMENTS
INCORPORATED

DATE 01/19/78 LIST OF MATERIAL PAGE 4 of 4

PART NUMBER
LM 0945070-0001 REV L

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0077	00007.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32	
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER	
0081	00005.000	EA		0054967-0005	CLAMP, LOOP	
0082	00001.000	EA		0054967-0004	CLAMP, LOOP-.22 DIA X.43 L X.38 W NYLON	
0083	00020.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -A0
0086	00002.000	EA		0947544-0001	LABEL, CAUTION	
0087	00000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - OC 340
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION	
0091	00012.000	EA		0418198-0028	SCREW, MACH, CSK FH .138-32X3/8	QPL - M551959-28
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES	
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C	
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW	
0095	00000.150	FT		0972436-0013	INSULATION, SLEEVING 2 X .263 PVC	03890H-T-105C-2
0096	00002.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES	
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
DRAFTSMAN: [Signature] DATE: 01/19/78 TITLE: CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V APPD. MFG. DATE: [Signature] PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO. PART NUMBER: LM 0945070-0001 REV L						

TEXAS INSTRUMENTS INCORPORATED DATE 01/19/78 **LIST OF MATERIAL** PAGE 1 of 4 PART NUMBER LM 0945070-0002 REV L

QTY	UNIT	DESCRIPTION	VENDOR PART NUMBER
0001	EA	CHASSIS- 12IN, 990	
0002	EA	COVER, ACCESS, REAR	
0003	EA	LABEL, GEN PURPOSE	
0004	EA	COVER, SIDE, 12 INCH CHASSIS	
0005	EA	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN	
0006	EA	BACKPANEL ASSY-12IN, 990	
0006A		IA1	
0007	EA	FRONT PANEL ASSEMBLY, OPERATOR, 990	
0007A		IA4	
0008	EA	FRONT PANEL-5-1/4IN, BLANK	
0010	EA	FUSEHOLDER, EXTRACTOR POST	071400-342858A
0010A		1XF1	
0011	EA	FUSE 10 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA10.0
0011A		1F1	
0012	EA	LABEL, BATTERY CONTROLS, BLANK	
0013	EA	BUSHING, STR RLF-.325-.36 WIRE .625 DIA	
0014	EA	CORD-GROUND PRONG PLUG POWER SERVICE	BEL - 17407
0015	EA	FILTER, POWER LINE, RFI SUPPRESSION	005245-1051
0015A		1FL1	
0016	EA	SCREW, THD FRMG, HEX-MSHR HD, 6-32X.625LG	

CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V
 APPD. ENG. DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0945070-0002 REV L

TEXAS INSTRUMENTS INCORPORATED DATE 01/19/78 **LIST OF MATERIAL** PAGE 2 of 4 PART NUMBER LM 0945070-0002 REV L

QTY	UNIT	DESCRIPTION	VENDOR PART NUMBER
0017	EA	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0018	EA	SCREW, PLASTITE, HEX-MSHR HD, 6-19X1.00LG	
0020	EA	SCREW, 6-20X 5/8 THD FRM, SLOT HX MSR HD	
0022	EA	LABEL, SIDE	
0024	EA	LAMP, CABLE, 1.5IN WIDE	
0025	EA	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-62-67
0027	FA	STRAP, TIE DOWN, CABLE	
0029	FA	POWER SUPPLY, 20 AMP, 990	
0029A		IA3	
0030	FA	CAP., 4200 MF, 250 V	
0030A		1C1	
0031	EA	WIRING HARNESS, 12IN CHASSIS	
0032	FA	LABEL-CONFIGURATION, 12IN, 990	
0033	EA	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6
0034	EA	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0035	EA	INSULATOR- CHASSIS, 12IN	
0037	EA	STRAP, TIE DOWN, CABLE	PND - SST45
0038	FA	LABEL, TERMINAL BOARD	
0039	FA	SPECIFICATION, CHASSIS, 990	
0040	EA	GROMMET, PLASTIC, EDGING	

CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V
 APPD. ENG. DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0945070-0002 REV L

TEXAS INSTRUMENTS INCORPORATED DATE 01/19/78 **LIST OF MATERIAL** PAGE 3 of 4 PART NUMBER LM 0945070-0002 REV L

QTY	UNIT	DESCRIPTION	VENDOR PART NUMBER
0041	EA	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS	
0042	EA	AC POWER CONVERTER	
0042A		IA2	
0043	EA	WASHER #6 FLAT	QPL - AN960C6L
0049	EA	PIN, GUIDE, POWER SUPPLY	
0050	EA	KEEPER, CLAMP, 1.5IN	
0052	EA	NUT, PLAIN HEX, #10	
0053	EA	LOCKWASHER #10 INTERNAL TOOTH CRES	
0054	EA	LABEL, POWER	
0055	EA	LABEL, FILTER	
0058	EA	ASSY, SURGE PROTECTOR	
0059	EA	TERMINAL, PUSH-ON, 250	
0062	EA	FAN ASSEMBLY	
0062A		1B1 1B2 1B3	
0063	REF	WIRE LIST, 12IN	
0064	EA	PLUG, STANDBY REPLACEMENT	
0065	REF	WIRING DIAGRAM, 12.25 CHASSIS	
0071	EA	WASHER, FLAT, #10	
0073	EA	TERMINAL, LUG, RING TONGUE, NO 6	
0076	EA	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L

CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V
 APPD. ENG. DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0945070-0002 REV L

TEXAS INSTRUMENTS INCORPORATED DATE 01/19/78 **LIST OF MATERIAL** PAGE 4 of 4 PART NUMBER LM 0945070-0002 REV L

QTY	UNIT	DESCRIPTION	VENDOR PART NUMBER
0077	EA	SCREW, THREAD FORMING, #6-32	
0080	EA	RESISTOR, BLEEDER	
0081	EA	CLAMP, LOOP	
0082	EA	CLAMP, LOOP-.22 DIA X.43 L X.38 W NYLON	
0083	EA	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD
0086	EA	LABEL, CAUTION	
0087	TU	GREASE, SILICONE, HEAT COND.	COR - DC 340
0088	EA	PLATE, IDENTIFICATION	
0091	EA	SCREW, MACH, CSK FH .138-32X3/8	QPL - MS51959-28
0092	EA	SCREW 10-32 .500 FLT HEAD CRES	
0093	QT	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C	
0094	TU	SURFACE PRIMER, COMPOUND GRADE T YELLOW	
0095	FT	INSULATION, SLEEVING 2 X .263 PVC	03890H-T-105C-2
0096	EA	SCREW 10-32 .250 PAN HEAD CRES	
0097	EA	LOCKWASHER #10 INTERNAL TOOTH CRES	

CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V
 APPD. ENG. DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0945070-0002 REV L

TEXAS INSTRUMENTS INCORPORATED		DATE 01/19/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0003		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945070-0001	CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V							
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 100V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0003		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/19/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0004		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945070-0002	CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V							
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 100V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0004		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/19/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0005		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945070-0001	CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V							
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 230V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0005		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/19/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0006		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945070-0002	CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V							
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 230V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0006		REV L		

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL			PAGE 1 of		LM 0945070-0007 L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0945051-0001	CHASSIS- 12IN, 990						
0002	0001.000	EA		0948975-0001	COVER, ACCESS, REAR						
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE						
0004	0001.000	EA		0947545-0001	COVER, SIDE, 12 INCH CHASSIS						
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN						
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY-12IN, 990						
0006A					1A1						
0007	0001.000	EA		0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990						
0007A					1A4						
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK						
0010	0001.000	EA		0972690-0001	FUSEHOLDER, EXTRACTOR POST	071400-342850A					
0010A					1XF1						
0011	0001.000	EA		0772995-0004	FUSE 10 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA10.0					
0011A					1F1						
0012	0001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK						
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0014	0001.000	EA		0088035-0005	CORD-GROUND PRONG PLUG POWER SERVICE	BEL - 17407					
0015	0001.000	EA		0996301-0007	FILTER, POWER LINE, RFI SUPPRESSION	005245-1051					
0015A					1FL1						
0016	0002.000	EA		0972684-0013	SCREW, THD FRMG, HEX-MSHR HD, 6-32X.625LG						
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED				DATE	APPROVER	DATE	RELEASED	DATE	PROJECT NO.		
				CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO							
				LM 0945070-0007 L							

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL			PAGE 2 of		LM 0945070-0007 L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0017	00013.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0018	00010.000	EA		0972679-0017	SCREW, PLASTIC, HEX-MSHR HD, 6-19X1.00LG						
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX MSR HD						
0022	00001.000	EA		0945230-0001	LABEL, SIDE						
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE						
0025	00022.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-6Z-67					
0027		EA		0972632-0003	STRAP, TIE DOWN, CABLE						
0029	00001.000	EA		0944970-0001	POWER SUPPLY, 20 AMP, 990						
0029A					1A3						
0030	00001.000	EA		0972930-0069	CAP., 4200 MF, 250 V						
0030A					IC1						
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS						
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990						
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - MAS671C6					
0034	00012.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0035	00002.000	EA		0945038-0001	INSUL TOP- CHASSIS, 12IN						
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - S5T45					
0038	00001.000	EA		0946734-0001	LABEL, TERMINAL BOARD						
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990						
0040	00001.000	EA		0418087-0002	GRIMMET, PLASTIC, EDGING						
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED				DATE	APPROVER	DATE	RELEASED	DATE	PROJECT NO.		
				CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO							
				LM 0945070-0007 L							

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL			PAGE 3 of		LM 0945070-0007 L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.						
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER						
0042A					1A2						
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0049	00002.000	EA		0946668-0001	PIN, GUIDE, POWER SUPPLY						
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN						
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10						
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0054	00001.000	EA		0946637-0001	LABEL, POWER						
0055	00001.000	EA		0946703-0002	LABEL, FILTER						
0058	00001.000	EA		0944977-0001	ASSY, SURGE PROTECTOR						
0059	00008.000	EA		0972171-0048	TERMINAL, PUSH-ON, 250						
0062	00003.000	EA		0947512-0003	FAN ASSEMBLY						
0062A					1B1 1B2 1B3						
0063	REF	EA		0946685-9901	WIRE LIST, 12IN						
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT						
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS						
0071	00002.000	EA		0411027-0808	WASHER, FLAT, #10						
0073	00001.000	EA		0411324-0002	TERMINAL, LUG, RING TONGUE, NO 6						
0076	00002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- MAS1515H03L					
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED				DATE	APPROVER	DATE	RELEASED	DATE	PROJECT NO.		
				CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO							
				LM 0945070-0007 L							

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL			PAGE 4 of		LM 0945070-0007 L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0077	00010.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER						
0081	00005.000	EA		0054967-0005	CLAMP, LOOP						
0082	00001.000	EA		0054967-0004	CLAMP, LOOP-.22 DIA X.43 L X.38 W NYLON						
0083	00020.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD					
0086	00002.000	EA		0947544-0001	LABEL, CAUTION						
0087	00000.010	TU		0415886-0003	GRTASE, SILICONE, HEAT COND.	COR - DC 340					
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION						
0091	00012.000	EA		0418198-0028	SCREW, MACH, CSK FH .138-32X3/8	QPL - MS51959-28					
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES						
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C						
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0095	00030.150	FT		0972436-0013	INSULATION, SLEEVING 2 X .263 PVC	03890H-T-105C-2					
0096	00002.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES						
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
APPROVED				DATE	APPROVER	DATE	RELEASED	DATE	PROJECT NO.		
				CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO							
				LM 0945070-0007 L							

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0008		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0945051-0001	CHASSIS- 12IN, 990				
0002	0001.000	EA		0948975-0001	COVER, ACCESS, REAR				
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE				
0004	0001.000	EA		0947545-0001	COVER, SIDE, 12 INCH CHASSIS				
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN				
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY-12IN, 990				
0006A					1A1				
0007	0001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990				
0007A					1A4				
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK				
0010	0001.000	EA		0972690-0001	FUSEHOLDER, EXTRACTOR POST	071400-342858A			
0010A					1XF1				
0011	0001.000	EA		0772995-0004	FUSE 10 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -MDA10.0			
0011A					1F1				
0012	0001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK				
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA				
0014	0001.000	EA		0088035-0005	CORD-GROUND PRONG PLUG POWER SERVICE	BEL - 17407			
0015	0001.000	EA		0996301-0007	FILTER, POWER LINE, RFI SUPPRESSION	005245-1051			
0015A					1FL1				
0016	0002.000	EA		0972684-0013	SCREW, THD FRMG, HEX-MSHR HD, 6-32X.625LG				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO			
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0945070-0008	L	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945070-0008		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0017	0001.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD				
0018	0001.000	EA		0972679-0017	SCREW, PLASTITE, HEX-MSHR HD, 6-19X1.00LG				
0020	0002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HK MSR HD				
0022	0001.000	EA		0945230-0001	LABEL, SIDE				
0024	0003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE				
0025	0002.000	EA		0972802-0002	FASTENER, 6-20X.94LG, SPEED NUT, STL	078553-C7707-6Z-67			
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE				
0029	0001.000	EA		0944970-0001	POWER SUPPLY, 20 AMP, 990				
0029A					1A3				
0030	0001.000	EA		0972930-0069	CAP., 4200 MF, 250 V				
0030A					1C1				
0031	0001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS				
0032	0001.000	EA		0944904-0001	LABEL-COMFIGURATION, 12IN, 990				
0033	0004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6			
0034	0012.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71			
0035	0002.000	EA		0945038-0001	INSULATOR- CHASSIS, 12IN				
0037	0002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45			
0038	0001.000	EA		0946704-0001	LABEL, TERMINAL BOARD				
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990				
0040	0001.000	EA		0418082-0002	GROMMET, PLASTIC, EDGING				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO			
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0945070-0008	L	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945070-0008		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0041	0001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS				
0042	0001.000	EA		0946650-0001	AC POWER CONVERTER				
0042A					1A2				
0043	0001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L			
0049	0002.000	EA		0946668-0001	PIN, GUIDE, POWER SUPPLY				
0050	0003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN				
0052	0004.000	EA		0411116-0104	NUT, PLAIN HEX, #10				
0053	0002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES				
0054	0001.000	EA		0946637-0001	LABEL, POWER				
0055	0001.000	EA		0946703-0002	LABEL, FILTER				
0058	0001.000	EA		0944977-0001	ASSY, SURGE PROTECTOR				
0059	0008.000	EA		0972171-0048	TERMINAL, PUSH-ON, 250				
0062	0003.000	EA		0947512-0003	FAN ASSEMBLY				
0062A					1B1 1B2 1B3				
0063	REF	EA		0946685-9901	WIRE LIST, 12IN				
0064	0001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT				
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS				
0071	0002.000	EA		0411027-0808	WASHER, FLAT, #10				
0073	0001.000	EA		0411324-0002	TERMINAL, LUG, RING TONGUE, NO 6				
0076	0002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L			
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO			
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0945070-0008	L	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0945070-0008		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0077	0001.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32				
0080	0001.000	EA		0944979-0001	RESISTOR, BLEEDER				
0081	0005.000	EA		0054967-0005	CLAMP, LOOP				
0082	0001.000	EA		0054967-0004	CLAMP, LOOP-.22 DIA X.43 L X.38 W NYLON				
0083	0002.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD			
0086	0002.000	EA		0947544-0001	LABEL, CAUTION				
0087	0000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340			
0088	0001.000	EA		0962571-0001	PLATE, IDENTIFICATION				
0091	0012.000	EA		0418198-0028	SCREW, MACH, CSK FH .138-32X3/8	QPL - MS51959-28			
0092	0003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES				
0093	0000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C				
0094	0000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW				
0095	0000.150	FT		0972436-0013	INSULATION, SLEEVING 2 X .263 PVC	03890H-T-105C-2			
0096	0002.000	EA		0972986-0006	SCREW 10-32 .250 PAN HEAD CRES				
0097	0002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO			
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
							LM 0945070-0008	L	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0009		REV L	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0101	00001.000	EA		0945070-0007	CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO				
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP PROG PNL, 100V LO NO			
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0009		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0010		REV L	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0101	00001.000	EA		0945070-0008	CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO				
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP OPER PNL, 100V LO NO			
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0010		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0011		REV L	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0101	00001.000	EA		0945070-0007	CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO				
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP PROG PNL, 230V LO NO			
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0011		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0012		REV L	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0101	00001.000	EA		0945070-0008	CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO				
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)				

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, 12IN 20AMP OPER PNL, 230V LO NO			
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0012		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0013		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945070-0001	CHASSIS ASSY, 12IN, 20AMP, PROG PNL, 115V					
0002	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)					
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 20AMP PROG PNL, 220V			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0013		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0014		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945070-0002	CHASSIS ASSY, 12IN, 20AMP, OPER PNL, 115V					
0002	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)					
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 20AMP OPER PNL, 220V			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0014		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0015		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945070-0007	CHASSIS, 12IN 20AMP PROG PNL, 115V LO NO					
0002	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)					
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 20AMP PROG PNL, 220V LO NO			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0015		REV L

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945070-0016		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0945070-0008	CHASSIS, 12IN 20AMP OPER PNL, 115V LO NO					
0002	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)					
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 20AMP OPER PNL, 220V LO NO			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945070-0016		REV L

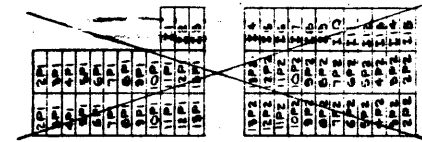
NOTES: CONTINUED
CONTINUED

START STATION	FINISH STATION
12P2	14
12P2	16
11P1	17P2
11P2	17
9P1	9P2
9P2	110
10P1	10P2
10P2	111
7P1	7P2
7P2	113
12P1	114
12P2	115

- DATA TO BE ENTERED BY ORDER ENTRY OR SYSTEM TEST
 - APPLY ITEM 87 BETWEEN ITEM 1 AND 81 OF ITEM 82.
 - ALIGN NUMBERS WITH GRID GUIDES AND THE EDGE OF ITEM 3 FLUSH WITH SURFACE A
- NOTES CONTINUED SH 1A

NOTES: CONTINUED

- PUT ITEMS 87 AND 80 IN ITEM 88 AND TAPE TO UNIT
- ALTERNATE PART NO FOR ITEM 88 IS 94553-0001 IF 94023-0001 IS USED, REPLACE ITEM 88 WITH 94553-0002 PER THE FOLLOWING DIMENSIONS AND PART COVER TERMINALS ON 94553-0002 WITH 94243-0001



(NOTE 7 CONTINUED)

NOTES: CONTINUED

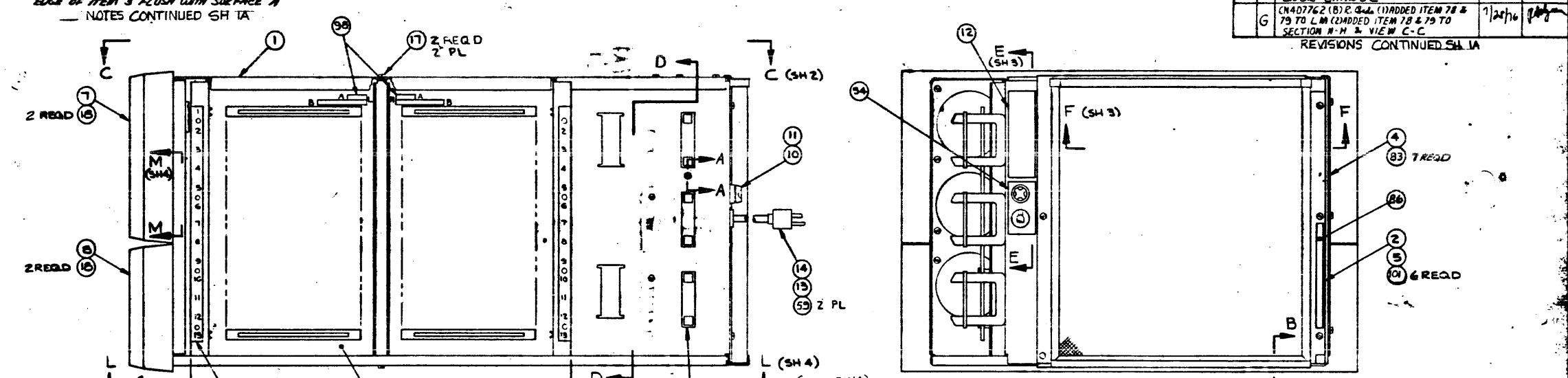
- ALTERNATE PART NO FOR ITEM 82 IS 94553-0001 IF 94023-0001 IS USED, ADJUST QUANTITIES ON THE FOLLOWING ITEMS AS SHOWN:
- REDUCE ITEM 3 TO 00
- REDUCE ITEM 55 BY 40
- REDUCE ITEM 87 TO 00
- INCREASE ITEM 88 BY 40
- INCREASE ITEM 89 BY 40

NOTES:

- INSTALL ITEM 9 UNDER THE FRONT SLIDE MOUNTING SCREW
- ALTERNATE PART NO FOR ITEM 27 IS 418212-0050
- ALTERNATE PART NO FOR ITEM 37 IS 418212-0020
- ALTERNATE PART NO FOR ITEM 48 IS 942228-0002
- GROUNDING LUG AND HARDWARE IS PART OF FRONT PANEL

ZONE	LTR	REVISIONS	DATE	APPROVED
A		EN 906928 (B) D.R. (1) REVISED DWG PER EXTENSIVE EUGR CHANGES	5-1-76	J.R.M.
B		EN 906928 (B) D.R. (1) REVISED L/M + DWG PER EXTENSIVE EUGR CHANGES	5-1-76	J.R.M.
C		CN 913965 (C) M. B. (1) REVISED L/M + DWG PER EXTENSIVE EUGR CHANGES	5-1-76	J.R.M.
D		EN 913970 (C) M. B. (1) REVISED L/M + DWG DELETED ITEM 51 (2) SR 20 4 DELETED ITEM 51 PICTORIAL (3) IN 3 (ZONE B-6 BALCON 61 2 READ, MS 39 2 READ	5-1-76	J.R.M.
E		CN 407515 (C) M. B. (1) REVISED L/M + DWG DELETED ITEM 85 (2) ON 0001 9-0002 QTY ITEMS 20 & 25 MS 4 & 27 (3) SH 4 SECT P-P REVISED PICTORIAL PER L/M CHANGES	5-1-76	J.R.M.
F		CN 407793 (C) D.R. (1) REVISED L/M + DWG PER EXTENSIVE EUGR CHANGE	11/1/76	J.R.M.
G		CN 407762 (B) R. G. (1) ADDED ITEM 78 & 79 TO L/M (DELETED ITEM 78 & 79 TO SECTION H-H & VIEW C-C	11/24/76	J.R.M.

REVISIONS CONTINUED SH 1A

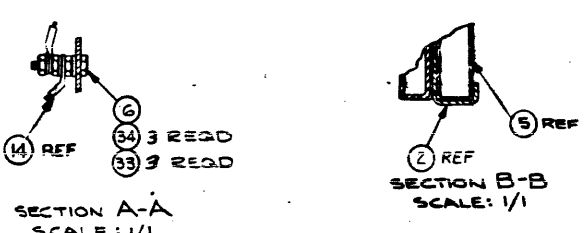


(CONT 9H1A)

PART NO	DESCRIPTION	QTY REQD
-0016	PROG PNL, 230V, LO NOISE, FDS, 47-63HZ, 3.5A, 500W	
-0015	PROG PNL, 100V, LO NOISE, FDS,	7A
-0014	PROG PNL, 115V, LO NOISE, FDS,	7A
-0013	OPER PNL, 115V, TPS CRU,	7A
-0012	OPER PNL, 230V, LO NOISE,	3.5A
-0011	PROG PNL, 230V, LO NOISE,	3.5A
-0010	OPER PNL, 100V, LO NOISE,	7A
-0009	PROG PNL, 100V, LO NOISE,	7A
-0008	OPER PNL, 115V, LO NOISE,	7A
-0007	PROG PNL, 115V, LO NOISE, 47-63HZ, 7A, 500W	

(TABLE CONTINUED ZN B-4)

PART NO	DESCRIPTION
-0006	OPER PNL, 230V, 47-63 HZ, 3.5 AMP, 500 WATT
-0005	PROG PNL, 230V, 47-63 HZ, 3.5 AMP, 500 WATT
-0004	OPER PNL, 100V, 47-63 HZ, 7 AMP, 500 WATT
-0003	PROG PNL, 100V, 47-63 HZ, 7 AMP, 500 WATT
-0002	OPER PNL, 115V, 47-63 HZ, 7 AMP, 500 WATT
-0001	PROG PNL, 115V, 47-63 HZ, 7 AMP, 500 WATT



- PROCESSES:
- SOLDER PER F-127, METHOD 1
 - MARK PER F-100, METHOD 2, CLASS 1, COLOR BLACK
 - SEAL PER F-650, METHOD 1, USING (ITEMS 93 & 94)

REV STATUS	REV	DATE	BY	CHKD	DATE	BY
REVISED	1	12-17-75	AGIAM			

REV STATUS: REVISED
REV: 1
DATE: 12-17-75
BY: AGIAM

REV	DATE	BY	CHKD	DATE	BY
1	12-17-75	AGIAM			

UNLESS OTHERWISE SPECIFIED:
REMOVE ALL BURRS AND SHARP EDGES
CONCENTRICITY MACHINED DIMENSIONS: 0.10 MM
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
KEY LETTER NUMBERS SHOWN IN PARENTHESIS FOR REFERENCE ONLY
FIT TOLERANCES SHOWN IN ACCORDANCE WITH MIL-STD-100

SIZE	CODE	DEV	NO	DRAWING NO
D	96214			945050

SCALE: 1/1

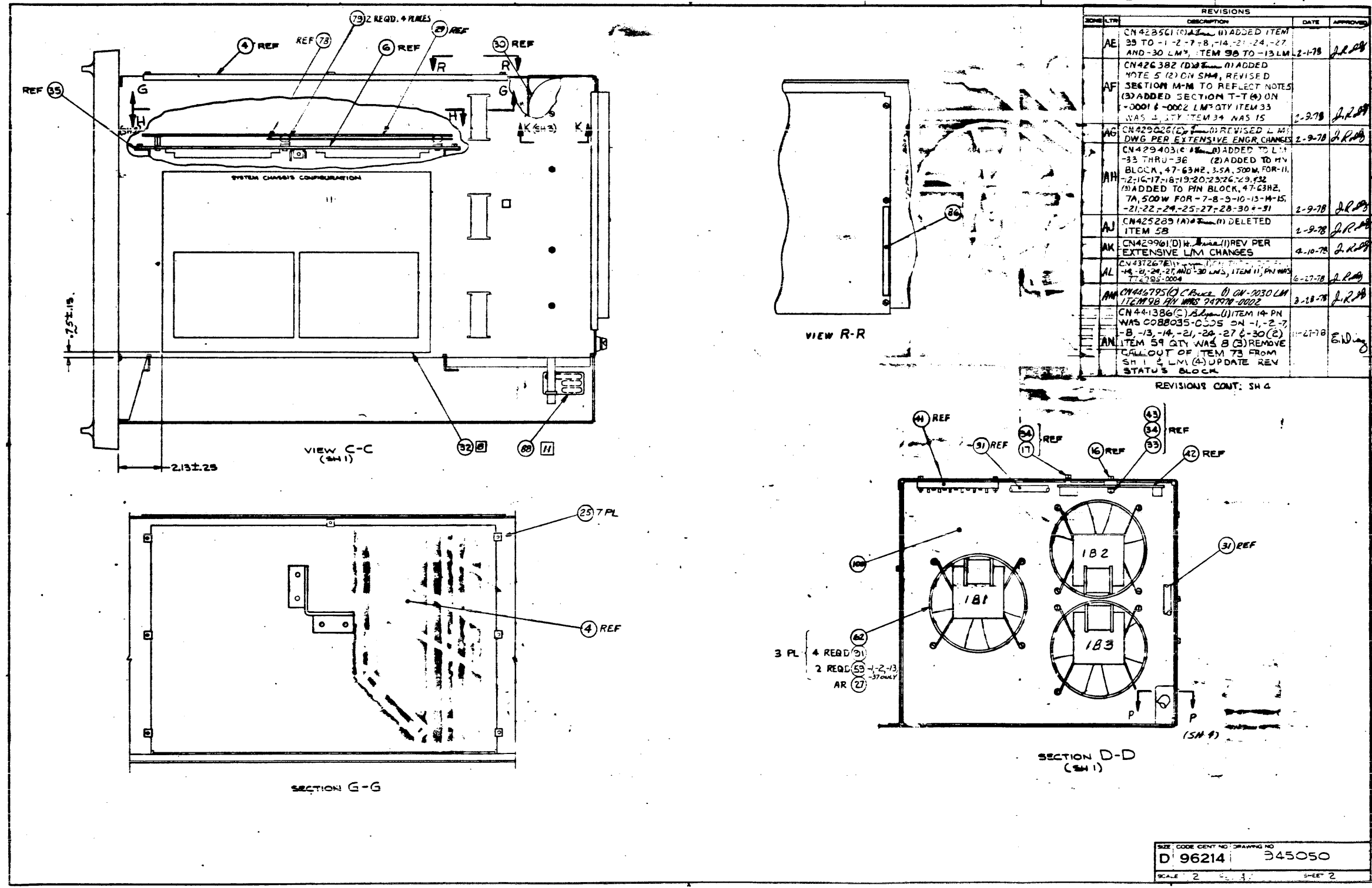
NOTES CONT:
 11 DATA TO BE TYPED BY MANUFACTURING OR BY SYSTEM TEST. MARK MODEL 990.13 SLOT CHASSIS, PN, VOLTS, HZ, AMPS AND SERIAL NO FOR DASH 0001,0002, 0003 & 0004 AMPS=7.0, FOR DASH 0005 & 0006 AMPS=3.5. THIS LABEL IS TO BE USED ON ALL UNITS THAT DO NOT HAVE T.I. CONNECTORS ON THE MOTHERBOARD. WITH T.I. CONNECTORS USE 17241D-0001 LABEL
 12 COAT OUTSIDE THREADS OF (ITEM 92) PER PROCESS 3
 13 DISCARD HARDWARE FURNISHED WITH ITEM 30

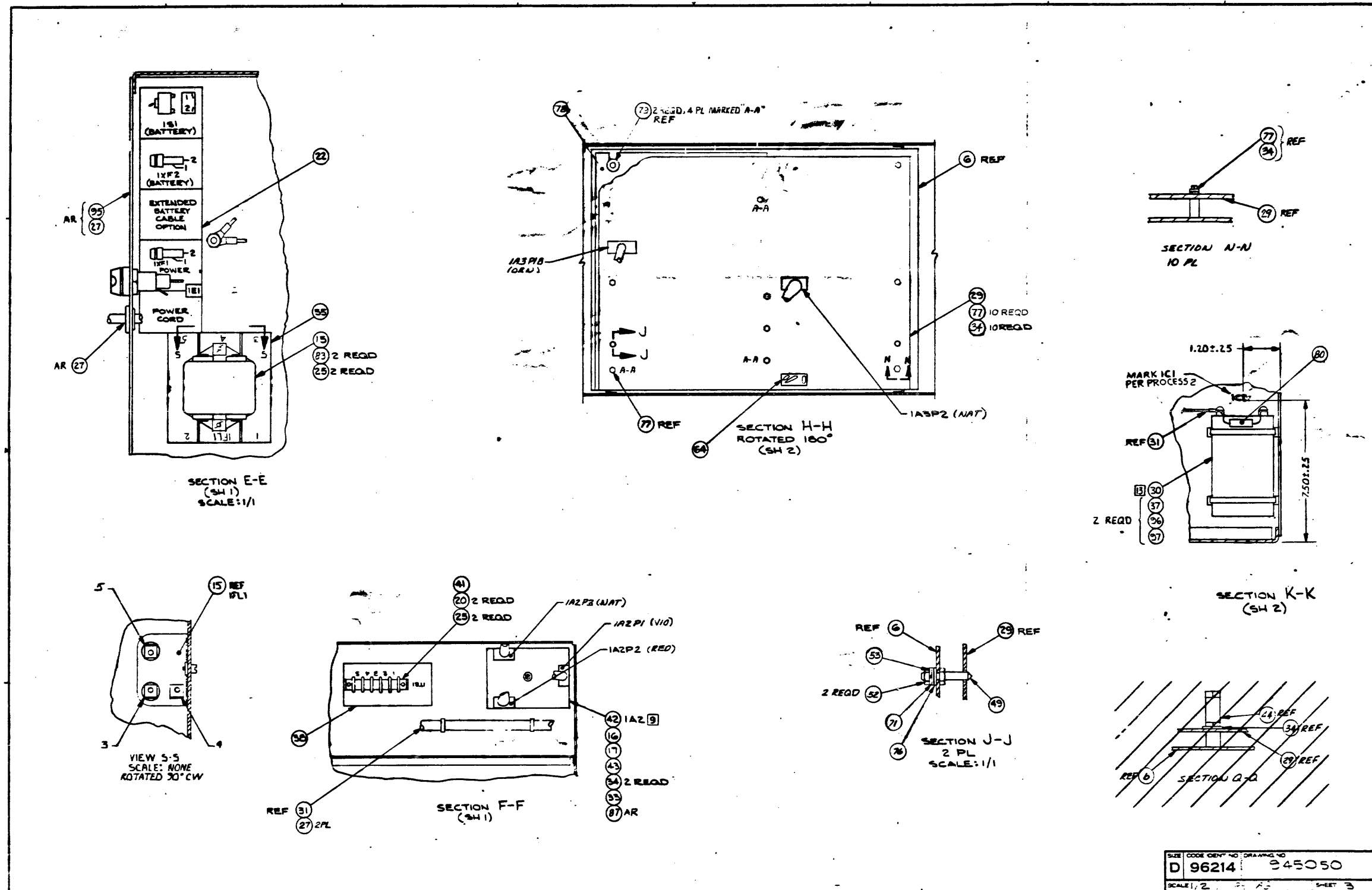
REVISIONS			
REV	DATE	DESCRIPTION	APPROVED
H	11-10-76	CN 41530 (C) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	J.R. King
J	11-10-76	CN 416585 (C) (1) ON-1 AND 2 LM. ITEM 103 ADDED. QUANTITY OF ITEM 16 WAS 16. QUANTITY OF ITEM 34 WAS 26. (2) REVISED PICTORIAL SH 2 TO SHOW LM CHANGES.	J.R. King
K	11-10-76	CN 419521 (C) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	J.R. King
L	11-10-76	CN 422654 (C) (1) ON-1 AND 2 LM. ITEM 2 WAS 945058-1 (2) DELETED ITEM 28 FROM LANA-2 LM (3) DELETED BALLOON @ 4 RECD FROM SH 1.	J.R. King
M	11-10-76	CN 417111 (C) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES.	J.R. King
N	1-3-77	CN 420765 (C) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	J.R. King
P	1-3-77	CN 420719 (C) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	J.R. King
R	3-4-77	CN 420268 (D) R. G. (1) REVISED PER EXTENSIVE ENGR. CHANGE	J.R. King
T	4-20-77	CN 419350 (E) A. D. (1) ADDED ITEM 58 TO LM AND FD (2) ADDED ITEM 59 TO -0001, -0002, -0007 + -0008 (3) ADDED -0014, -0015 + -0016 TO LM AND PN CHART	J.R. King
U	5-12-77	CN 41762 (D) (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	J.R. King
V	6/20/77	CN 399420 (C) S. Dodson (1) ADDED -17 THRD -20 TO LM AND F/D	J.R. King
W	6/20/77	CN 41184 (D) S. Dodson (1) DELETED ITEM 23 ON -7, 8 AND 14 (2) SH 4, UPDATED SECTION M-M	J.R. King
Y	9-15-77	CN 424857 (C) R. G. (1) LM-1-2, 7-8, -13 + -14 ITEM 88 WAS 17241D-0001 (2) REVISED NOTE 11	J.R. King
AA	10-7-77	CN 424834 (D) R. G. (1) CREATED -001 THRU -0026 LMS	J.R. King
AB	10-27-77	CN 425155 (E) R. G. (1) -0001, -0002, -0007, -0008, -0013, -0014, -0021 & -0024 ITEM 91 WAS 418198-0026	J.R. King
AC	11-11-77	CN 425131 (C) R. G. (1) CREATED -0027 THRU -0032 LMS (2) UPDATED -0021 THRU -0026 TITLES IN DASH NO. SCHEDULE	J.R. King
AD	11-11-77	CN 427133 (C) R. G. (1) ADDED 47-63 HZ. WATT TO -1, -2, -3, -4 IN DASH NO. SCHEDULE AND 47-63 HZ. WATT TO -5 + -6 IN DASH NO. SCHEDULE. (2) DELETED "REV LEVEL" FROM NOTE 11	J.R. King

(REV. CONT. ON SH 2)

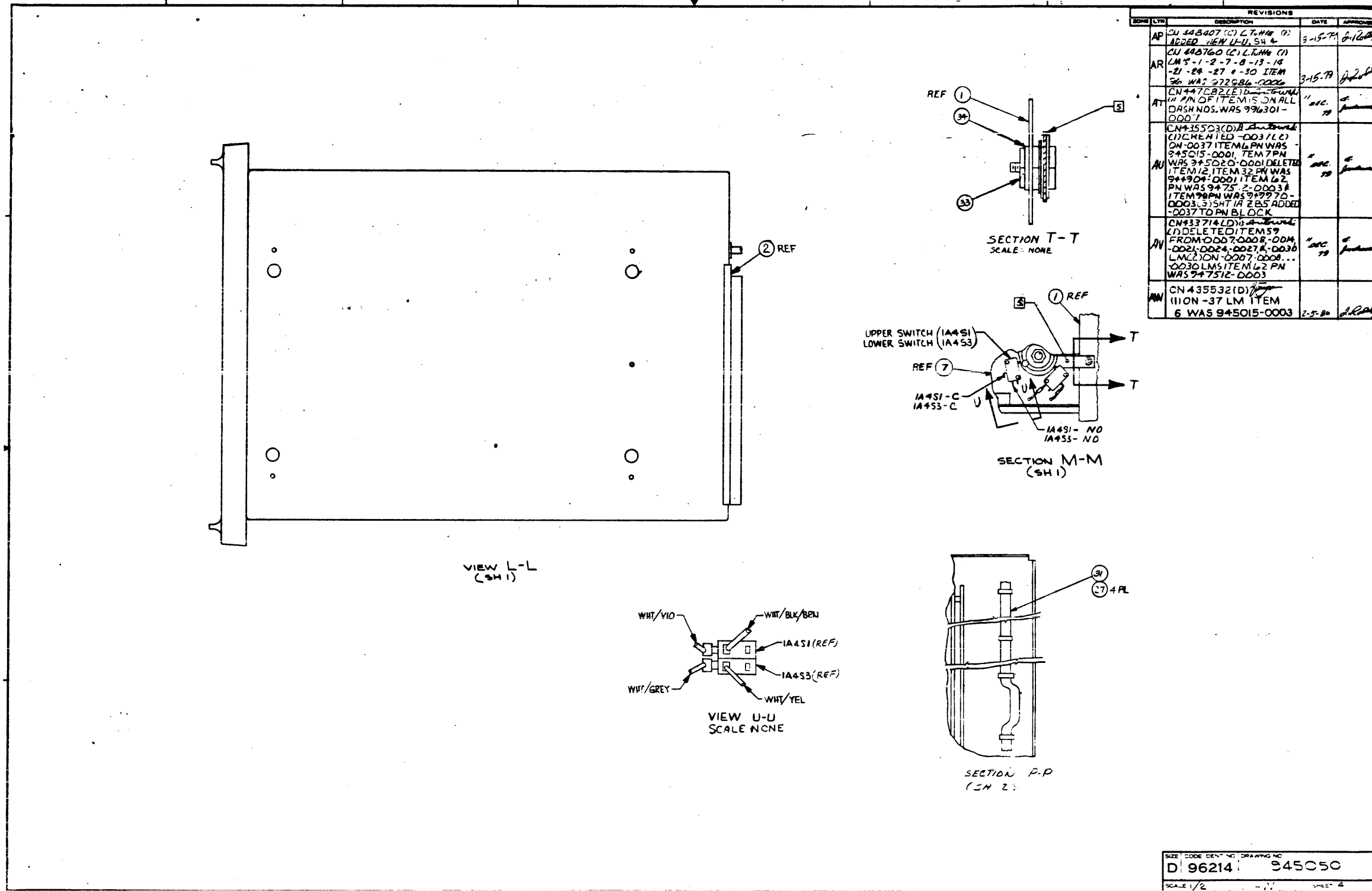
PART NO.	DESCRIPTION
-0037	OPER PNL, 115V, 40 AMP SPECIAL
-0036	OPER PNL, DX 10 220V, 47-63 HZ, 3.5A, 500W
-0035	OPER PNL, TX DS 220V,
-0034	PROG PNL, DX 10 220V,
-0033	PROG PNL, TX DS 220V,
-0032	OPER PNL, DX 10 230V, 3.5A
-0031	DX 10 100V, 7A
-0030	DX 10 115V, 7A
-0029	TX DS 230V, 3.5A
-0028	TX DS 100V, 7A
-0027	OPER PNL, TX DS 115V, 7A
-0026	PROG PNL, DX 10 230V, LO NOISE DS 990 3.5A
-0025	DX 10 100V, DS 7A
-0024	DX 10 115V, DS 7A
-0023	TX DS 230V, FS 3.5A
-0022	TX DS 100V, FS 7A
-0021	PROG PNL, TX DS 115V, LO NOISE, FS 990, 47-63 HZ, 7A, 500W
-0020	OPER PNL, 220V, LO NOISE, 47-63 HZ, 3.5A, 500W
-0019	PROG PNL, 220V, LO NOISE, 47-63 HZ, 3.5A, 500W
-0018	OPER PNL, 220V, 47-63 HZ, 3.5A, 500W
-0017	PROG PNL, 220V, 47-63 HZ, 3.5A, 500W

SIZE	CODE IDENT NO	DRAWING NO
D	96214	945050
SCALE	REV	AU SHEET 1A





SIZE	CODE	QTY	DRAWING NO.
D	96214	945050	
SCALE: 1/2		SHEET 3	



SIZE	CODE	DEPT. NO.	DRAWING NO.
D	96214		945050
SCALE	1/2		SHEET 4

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80 LIST of MATERIAL			PAGE 1 of		PART NUMBER LM 0945050-0001		REV AH	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	0001.000	EA		0940100-0001	CHASSIS, 12.25 INCH					
0002	0001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH					
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE					
0004	0001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH					
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN					
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990					
0006A					1A1					
0007	0001.000	EA		0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990					
0007A					1A4					
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK					
0010	0001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS	-HKP-HH			
0010A					1XF1					
0011	0001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP		075915-GLH10			
0011A					1F1					
0012	0001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK					
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-325-.36 WIRE .625 DIA					
0014	0001.000	EA		0975522-0001	CABLE ASSY, POWER CORD					
0015	0001.000	EA		2210820-0001	FILTER, POWERLINE, RFI SUPPRESSION					
0015A					1FL1					
0016	0002.000	EA		0972684-0013	SCREW, THD FRMG, HEX-NSHR HD, 6-32X.625LG					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
		J. K. <i>J. K. 2-4-80</i>				CHASSIS 12IN 40APS PRDG PNL 115V				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
						7506				LM 0945050-0001 AH

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80 LIST of MATERIAL			PAGE 2 of		PART NUMBER LM 0945050-0001		REV AH	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0017	00013.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD					
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-NSHR HD, 6-19X1.00LG					
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HK NSR HD					
0022	00001.000	EA		0945230-0001	LABEL, SIDE					
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE					
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL		078553-C7707-62-67			
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE					
0029	00001.000	EA		0944980-0401	POWER SUPPLY, 40 AMP, 990					
0029A					1A3					
0030	00001.000	EA		0972930-0069	CAP., 4200 MF, 250 V					
0030A					1C1					
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS					
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990					
0033	00005.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL	QPL	- NAS671C6			
0034	00016.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL	- MS35333-71			
0035	00002.000	EA		0945038-0001	INSULATOR- CHASSIS, 12IN					
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE		PND - SST4S			
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD					
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990					
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
						CHASSIS 12IN 40APS PRDG PNL 115V				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
										LM 0945050-0001 AH

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80 LIST of MATERIAL			PAGE 3 of		PART NUMBER LM 0945050-0001		REV AH	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0042	0001.000	EA		0946650-0001	AC POWER CONVERTER					
0042A					1A2					
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL	- AN960C6L			
0049	00002.000	EA		0946668-0001	PIN, GUIDE, PCMR SUPPLY					
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN					
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10					
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES					
0054	00001.000	EA		0946637-0001	LABEL, POWER					
0055	00001.000	EA		0946703-0002	LABEL, FILTER					
0059	00006.000	EA		0972171-0048	TERMINAL, RCPT-822-18AWG .032TABS PUSH/ON AMP		-42599-4 STRIP			
0062	00003.000	EA		0947512-0002	FAN ASSEMBLY					
0062A					101, 102, 103					
0063	REF	EA		0946685-9901	WIRE LIST, 12IN					
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT					
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS					
0071	00002.000	EA		0411027-0808	WASHER, FLAT, #10					
0076	00002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER		- NAS151SH03L			
0077	00010.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32					
0078	00001.000	EA		0948970-0001	SHIELD 990-40 PWR SUPPLY					
0079	00008.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
						CHASSIS 12IN 40APS PRDG PNL 115V				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
										LM 0945050-0001 AH

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80 LIST of MATERIAL			PAGE 4 of		PART NUMBER LM 0945050-0001		REV AH	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER					
0083	00009.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE	-AD			
0086	00002.000	EA		0947544-0001	LABEL, CAUTION					
0087	00000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.		COR - DC 340			
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION					
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX					
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES					
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C					
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW					
0095	00000.150	FT		0972436-0013	INSUL SLVG, .2630 DIA X .020 WALL THK PVC	03890H-T-105C-2				
0096	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES					
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES					
0098	00001.000	EA		0946741-0001	PLUG ASSY, INTERRUPT, 12IN					
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CMT AND ASSOC PRPHLS					
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS					
0101	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM, SLOT HK NSR HD					
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
						CHASSIS 12IN 40APS PRDG PNL 115V				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
										LM 0945050-0001 AH

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0002		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0940100-0001	CHASSIS, 12.25 INCH							
0002	0001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH							
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE							
0004	0001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH							
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN							
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990							
0006A					1A1							
0007	0001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990							
0007A					1A4							
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK							
0010	0001.000	EA		0232092-0003	HOLDER FUSE MKP-HH	BUS -MKP-HH						
0010A					1XF1							
0011	0001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915-GLH10						
0011A					1F1							
0012	0001.000	EA		0946630-0001	LABEL, BATTERY CONTROLS, BLANK							
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA							
0014	0001.000	EA		0975522-0001	CABLE ASSY, POWER CORD							
0015	0001.000	EA		2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION							
0015A					1FL1							
0016	0002.000	EA		0972684-0013	SCREW, THD FRNG, HEX-NSHR, HD, 6-32X.625LG							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OPER PNL 115V				
APPROVED	DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0002		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945050-0002		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0017	0001.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD							
0018	0004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-NSHR HD, 6-19X1.00LG							
0020	0002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX NSR HD							
0022	0001.000	EA		0945230-0001	LABEL, SIDE							
0024	0003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE							
0025	0001.000	EA		0972002-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	070553-C7707-6Z-67						
0027		AR			STRAP, TIE DOWN, CABLE							
0029	0001.000	EA		0944900-0001	POWER SUPPLY, 40 AMP, 550							
0029A					1A3							
0030	0001.000	EA		0972930-0069	CAP., 4200 MF, 250 V							
0030A					1C1							
0031	0001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS							
0032	0001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990							
0033	0005.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6						
0034	0001.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - NS35333-71						
0035	0002.000	EA		0945030-0001	INSULATOR- CHASSIS, 12IN							
0037	0002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST4S						
0038	0001.000	EA		0946704-0001	LABEL, TERMINAL BOARD							
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990							
0041	0001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERM.							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OPER PNL 115V				
APPROVED	DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0002		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945050-0002		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0042	0001.000	EA		0946630-0001	AC POWER CONVERTER							
0042A					1A2							
0043	0001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L						
0049	0002.000	EA		0946660-0001	PIN, GUIDE, POWER SUPPLY							
0050	0003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN							
0052	0004.000	EA		0411116-0104	NUT, PLAIN HEX, #10							
0053	0002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0054	0001.000	EA		0946637-0001	LABEL, POWER							
0055	0001.000	EA		0946703-0002	LABEL, FILTER							
0059	0006.000	EA		0972171-0048	TERMINAL, RCPT-#22-18AWG .032TABS PUSH/ON AMP	-42599-4 STRIP						
0062	0003.000	EA		0947512-0002	FAN ASSEMBLY							
0062A					101, 102, 103							
0063	REF	EA		0946605-9901	WIRE LIST, 12IN							
0064	0001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT							
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS							
0071	0002.000	EA		0411027-0000	WASHER, FLAT, #10							
0076	0002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L						
0077	0001.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32							
0078	0001.000	EA		0940970-0001	SHIELD 990-40 PWR SUPPLY							
0079	0000.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OPER PNL 115V				
APPROVED	DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0002		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0945050-0002		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0080	0001.000	EA		0944979-0001	RESISTOR, BLEEDER							
0083	0009.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	ME -AD						
0086	0002.000	EA		0947544-0001	LABEL, CAUTION							
0087	0000.010	TU		0415006-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340						
0088	0001.000	EA		0962571-0001	PLATE, IDENTIFICATION							
0091	0001.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX							
0092	0003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES							
0093	0000.100	QT		0415004-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C							
0094	0000.100	TU		0415004-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
0095	0000.150	FT		0972436-0013	INSUL SLVG, .2630IA X .020 WALL THK PVC	03090H-T-105C-2						
0096	0002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES							
0097	0002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0098	0001.000	EA		0946741-0001	PLUG ASSY, INTERRUPT, 12IN							
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CMT AND ASSOC PRPHLS							
0100	0001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS							
0101	0006.000	EA		0972604-0010	SCREW 8-32 X 3/8 THD FRM, SLOT HX NSR HD							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OPER PNL 115V				
APPROVED	DATE	APPROVED	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0002		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0003		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0001	CHASSIS 12IN 40APS PROG PNL 115V							
0102	00001.000	EA		0945133-0001	KIT INTL WOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS PROG PNL 100V					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0003		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0004		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0002	CHASSIS 12IN 40APS OPER PNL 115V							
0102	00001.000	EA		0945133-0001	KIT INTL WOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS OPER PNL 100V					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0004		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0005		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0001	CHASSIS 12IN 40APS PROG PNL 115V							
0102	00001.000	EA		0945133-0002	KIT INTL WOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS PROG PNL 230V					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0005		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0006		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0002	CHASSIS 12IN 40APS OPER PNL 115V							
0102	00001.000	EA		0945133-0002	KIT INTL WOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS OPER PNL 230V					
APPROV. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0006		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0007		REV AM	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	EA	CHASSIS, 12.25 INCH	0940100-0001	CHASSIS, 12.25 INCH							
0002	EA	COVER, ACCESS, REAR, 12.25 INCH	0940074-0001	COVER, ACCESS, REAR, 12.25 INCH							
0003	EA	LABEL, GEN PURPOSE	0946700-0003	LABEL, GEN PURPOSE							
0004	EA	COVER, SIDE, 12.25 INCH	2261649-0001	COVER, SIDE, 12.25 INCH							
0005	EA	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN	0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN							
0006	EA	BACKPANEL ASSY, 12IN, 990	0945015-0001	BACKPANEL ASSY, 12IN, 990							
0006A		1A1									
0007	EA	FRONT PANEL ASSY, PROGRAMMER'S, 990	0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990							
0007A		1A4									
0008	EA	FRONT PANEL-5-1/4IN, BLANK	0945022-0001	FRONT PANEL-5-1/4IN, BLANK							
0010	EA	HOLDER FUSE MKP-HH	0232092-0003	HOLDER FUSE MKP-HH	BUS -MKP-HH						
0010A		1XF1									
0011	EA	FUSE, TYPE 3AG 125V 10 AMP	0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915-GLM10						
0011A		1F1									
0012	EA	LABEL, BATTERY CONTROLS, BLANK	0946638-0001	LABEL, BATTERY CONTROLS, BLANK							
0013	EA	BUSHING, STR RLF-.325-.36 WIRE .625 DIA	0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA							
0014	EA	CABLE ASSY, POWER CORD	0975522-0001	CABLE ASSY, POWER CORD							
0015	EA	FILTER, POWERLINE, RFI SUPPRESSION	2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION							
0015A		1FL1									
0016	EA	SCREW, THD FRM, HEX-WSHR HD, 6-32X.625LG	0972604-0013	SCREW, THD FRM, HEX-WSHR HD, 6-32X.625LG							
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CHASSIS, 12 IN 40 APS PROG PNL, 115V LO NC											
APPROVED DATE APPROVED PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945050-0007 AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945050-0007		REV AM	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0017	EA	SCREW, 6-32 X 1/4 HEX WASHER HEAD	0972604-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD							
0018	EA	SCREW, PLASTITE, HEX-WSHR HD, 6-19X1.00LG	0972679-0017	SCREW, PLASTITE, HEX-WSHR HD, 6-19X1.00LG							
0020	EA	SCREW, 6-20X 5/8 THD FRM, SLOT HX WSR HD	0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX WSR HD							
0022	EA	LABEL, SIDE	0945230-0001	LABEL, SIDE							
0024	EA	CLAMP, CABLE, 1.5IN WIDE	0972791-0017	CLAMP, CABLE, 1.5IN WIDE							
0025	EA	FASTENER, 6-20X.34LG, SPEED NUT, STL	0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-6Z-67						
0027	EA	STRAP, TIE DOWN, CABLE	0972632-0003	STRAP, TIE DOWN, CABLE							
0029	EA	POWER SUPPLY, 40 AMP, 990	0944980-0001	POWER SUPPLY, 40 AMP, 990							
0029A		1A3									
0030	EA	CAP., 4200 MF, 250 V	0972930-0069	CAP., 4200 MF, 250 V							
0030A		1C1									
0031	EA	WIRING HARNESS, 12IN CHASSIS	0945043-0001	WIRING HARNESS, 12IN CHASSIS							
0032	EA	LABEL-CONFIGURATION, 12IN, 990	0944904-0001	LABEL-CONFIGURATION, 12IN, 990							
0033	EA	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6						
0034	EA	LOCKWASHER #6 INTERNAL TOOTH CRES	0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - NS35333-71						
0035	EA	INSULATOR- CHASSIS, 12IN	0945038-0001	INSULATOR- CHASSIS, 12IN							
0037	EA	STRAP, TIE DOWN, CABLE	0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST4S						
0038	EA	LABEL, TERMINAL BOARD	0946704-0001	LABEL, TERMINAL BOARD							
0039	REF	SPECIFICATION, CHASSIS, 990	0944961-9901	SPECIFICATION, CHASSIS, 990							
0041	EA	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS	0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS							
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CHASSIS, 12 IN 40 APS PROG PNL, 115V LO NC											
APPROVED DATE APPROVED PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945050-0007 AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945050-0007		REV AM	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0042	EA	AC POWER CONVERTER	0946650-0001	AC POWER CONVERTER							
0042A		1A2									
0043	EA	WASHER #6 FLAT	0416622-0013	WASHER #6 FLAT	QPL - AN960C6L						
0049	EA	PIN, GUIDE, POWER SUPPLY	0946668-0001	PIN, GUIDE, POWER SUPPLY							
0050	EA	KEEPER, CLAMP, 1.5IN	0972791-0019	KEEPER, CLAMP, 1.5IN							
0052	EA	NUT, PLAIN HEX, #10	0411114-0104	NUT, PLAIN HEX, #10							
0053	EA	LOCKWASHER #10 INTERNAL TOOTH CRES	0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0054	EA	LABEL, POWER	0946637-0001	LABEL, POWER							
0055	EA	LABEL, FILTER	0946703-0002	LABEL, FILTER							
0062	EA	FAN ASSY, LUGGED, LO NOISE, 12 INCH	2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH							
0062A		101 102 103									
0063	REF	WIRE LIST, 12IN	0946685-9901	WIRE LIST, 12IN							
0064	EA	PLUG, STANDBY REPLACEMENT	0946739-0001	PLUG, STANDBY REPLACEMENT							
0065	REF	WIRING DIAGRAM, 12.25 CHASSIS	0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS							
0071	EA	WASHER, FLAT, #10	0411027-0008	WASHER, FLAT, #10							
0076	EA	WASHER #10 PLASTIC & SYNTHETIC RUBBER	0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L						
0077	EA	SCREW, THREAD FORMING, #6-32	0972604-0011	SCREW, THREAD FORMING, #6-32							
0078	EA	SHIELD 990-40 PWR SUPPLY	0948970-0001	SHIELD 990-40 PWR SUPPLY							
0079	EA	GROMMET 1/4 ID 5/8 OD 1/16	0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16							
0080	EA	RESISTOR, BLEEDER	0944979-0001	RESISTOR, BLEEDER							
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CHASSIS, 12 IN 40 APS PROG PNL, 115V LO NC											
APPROVED DATE APPROVED PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945050-0007 AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0945050-0007		REV AM	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0083	EA	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD						
0086	EA	LABEL, CAUTION	0947544-0001	LABEL, CAUTION							
0087	TU	GREASE, SILICONE, HEAT COND.	0415086-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340						
0088	EA	PLATE, IDENTIFICATION	0942571-0001	PLATE, IDENTIFICATION							
0091	EA	SCREW # 6-19 X 1/2 SLOTTED HEX	0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX							
0092	EA	SCREW 10-32 .500 FLT HEAD CRES	0972992-0011	SCREW 10-32 .500 FLT HEAD CRES							
0093	QT	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C	0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C							
0094	TU	SURFACE PRIMER, COMPOUND GRADE T YELLOW	0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
0095	FT	INSUL SLVG, .263DIA X .020 WALL THK PVC	0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2						
0096	EA	SCREW 10-32 .375 PAN HEAD CRES	0972986-0008	SCREW 10-32 .375 PAN HEAD CRES							
0097	EA	LOCKWASHER #10 INTERNAL TOOTH CRES	0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0098	EA	PLUG ASSY, INTERRUPT, 12IN	0946741-0001	PLUG ASSY, INTERRUPT, 12IN							
0099	REF	T.P., SYS TEST, 990 CPPT AND ASSOC PRPHLS	0948952-9901	T.P., SYS TEST, 990 CPPT AND ASSOC PRPHLS							
0100	EA	FAN PLATE, 12 INCH CHASSIS	0936407-0001	FAN PLATE, 12 INCH CHASSIS							
0101	EA	SCREW 8-32 X 3/8 THD FRM, SLOT HX WSR HD	0972604-0018	SCREW 8-32 X 3/8 THD FRM, SLOT HX WSR HD							
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CHASSIS, 12 IN 40 APS PROG PNL, 115V LO NC											
APPROVED DATE APPROVED PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945050-0007 AM											

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL		DATE 01/31/80		PAGE 1 of		PART NUMBER LM 0945050-0008		REV AM	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0001	0001.000	EA		0940100-0001	CHASSIS, 12.25 INCH								
0002	0001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH								
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE								
0004	0001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH								
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN								
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990								
0006A					1A1								
0007	0001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990								
0007A					1A4								
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK								
0010	0001.000	EA		0232092-0003	HOLDER FUSE HKP-HH	BUS	-HKP-HH						
0010A					1XF1								
0011	0001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP								
0011A					1F1						075915-GLH10		
0012	0001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK								
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA								
0014	0001.000	EA		0975522-0001	CABLE ASSY, POWER CORD								
0015	0001.000	EA		2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION								
0015A					1FL1								
0016	0002.000	EA		0972684-0013	SCREW, THD FRNG, HEX-HSHR HD, 6-32X.625LG								
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE					CHASSIS, 12 IN 40 APS OPER PNL, 115V LC NC								
APPROV. DATE					APPROV. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.					PART NUMBER LM 0945050-0008 REV AM			

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL		DATE 01/31/80		PAGE 2 of		PART NUMBER LM 0945050-0008		REV AM	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0017	00013.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD								
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-HSHR HD, 6-19X1.00LG								
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX MSR HD								
0022	00001.000	EA		0945230-0001	LABEL, SIDE								
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE								
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL							078553-C7707-62-67	
0027		AR		0972632-0003	STRAP, TIE DOWN, CABLE								
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990								
0029A					1A3								
0030	00001.000	EA		0972930-0069	CAP., 4200 PF, 250 V								
0030A					1C1								
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS								
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990								
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL							QPL - NAS671C6	
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES							QPL - MS35333-71	
0035	00002.000	EA		0945038-0001	INSULATOR- CHASSIS, 12IN								
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE							PND - SST45	
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD								
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990								
0041	00001.000	EA		0975270-0005	TERMINAL BLCK 5 POSITION PUSH-ON TERMS.								
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE					CHASSIS, 12 IN 40 APS OPER PNL, 115V LC ND								
APPROV. DATE					APPROV. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.					PART NUMBER LM 0945050-0008 REV AM			

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL		DATE 01/31/80		PAGE 3 of		PART NUMBER LM 0945050-0008		REV AM	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER								
0042A					1A2								
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT							QPL - AN960C6L	
0049	00002.000	EA		0946648-0001	PIN, GUIDE, POWER SUPPLY								
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN								
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10								
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES								
0054	00001.000	EA		0946637-0001	LABEL, POWER								
0055	00001.000	EA		0946783-0002	LABEL, FILTER								
0062	00003.000	EA		2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH								
0062A					1B1 1B2 1B3								
0063	REF	EA		0946685-9901	WIRE LIST, 12IN								
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT								
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS								
0071	00002.000	EA		0411027-0008	WASHER, FLAT, #10								
0076	00002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER							- NAS1515403L	
0077	00010.000	EA		0972684-0011	SCREW, THREAD FORMING, 6-32								
0078	00001.000	EA		0948970-0001	SHIELD 990-40 PMR SUPPLY								
0079	00008.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16								
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER								
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE					CHASSIS, 12 IN 40 APS OPER PNL, 115V LC NO								
APPROV. DATE					APPROV. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.					PART NUMBER LM 0945050-0008 REV AM			

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL		DATE 01/31/80		PAGE 4 of		PART NUMBER LM 0945050-0008		REV AM	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0083	00009.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED							HE -AD	
0086	00002.000	EA		0947544-0001	LABEL, CAUTION								
0087	00000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.							GOR - DC 340	
0088	00001.000	EA		0942571-0001	PLATE, IDENTIFICATION								
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX								
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES								
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C								
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPCUND GRADE T YELLOW								
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC							03890H-T-105C-2	
0096	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES								
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES								
0098	00001.000	EA		0946741-0001	PLUG ASSY, INTERRUPT, 12IN								
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CMPT AND ASSOC PRPHLS								
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS								
0101	00006.000	EA		0972684-0018	SCREW 6-32 X 3/8 THD FRM, SLOT HX MSR HD								
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE					CHASSIS, 12 IN 40 APS OPER PNL, 115V LC NO								
APPROV. DATE					APPROV. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.					PART NUMBER LM 0945050-0008 REV AM			

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0009		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0007	CHASSIS,12 IN 40 APS PROG PNL,115V LO NO							
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,12 IN 40 APS PROG PNL,100V LO NO					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0945050-0009		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0010		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0008	CHASSIS,12 IN 40 APS OPER PNL,115V LO NO							
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,12 IN 40 APS OPER PNL,100V LO NO					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0945050-0010		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0011		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0007	CHASSIS,12 IN 40 APS PROG PNL,115V LO NO							
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,12 IN 40 APS PROG PNL,230V LO NO					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0945050-0011		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0012		REV AM		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0008	CHASSIS,12 IN 40 APS OPER PNL,115V LO NO							
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,12 IN 40 APS OPER PNL,230V LO NO					
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	PART NUMBER LM 0945050-0012		REV AM		

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL			PART NUMBER		REV	
			DATE	PAGE	OF	LM 0945050-0013		AM	
PNIT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	0001.000	EA		0940100-0001	CHASSIS, 12.25 INCH				
0002	0001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH				
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE				
0004	0001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH				
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN				
0006	0001.000	EA		0945015-0002	BACKPANEL ASSY, 12IN, TPS CRU				
0006A					1A1				
0007	0001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990				
0007A					1A4				
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK				
0010	0001.000	EA		0232092-0003	HOLDER FUSE MKP-PH	BUS	-HKP-HH		
0010A					1XF1				
0011	0001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915	-GLH10		
0011A					1F1				
0012	0001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK				
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA				
0014	0001.000	EA		0975522-0001	CABLE ASSY, POWER CORD				
0015	0001.000	EA		2210820-0001	FILTER, POWER LINE, RFI SUPPRESSION				
0015A					1FL1				
0016	0002.000	EA		0972604-0013	SCREW, THD FRNG, HEX-W SHR HD, 6-32X.625LG				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHAS, 12 IN 40 APS OPER PNL, 115V-TPS CRU		
APP'D-MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0945050-0013 AM		

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL			PART NUMBER		REV	
			DATE	PAGE	OF	LM 0945050-0013		AM	
PNIT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0017	00013.000	EA		0972604-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD				
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-W SHR HD, 6-19X1.00LG				
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX WSR HD				
0022	00001.000	EA		0945230-0001	LABEL, SIDE				
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE				
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553	-C7707-6Z-67		
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE				
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990				
0029A					1A3				
0030	00001.000	EA		0972930-0069	CAP., 4200 MF, 250 V				
0030A					IC1				
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IA CHASSIS				
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990				
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-28 HEX CRES, SMALL	QPL	-NAS671C6		
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL	-MS35333-71		
0035	00002.000	EA		0945038-0001	INSULATOR- CHASSIS, 12IN				
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND	-SST4S		
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD				
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990				
0041	00001.000	EA		0975270-0005	TERMINAL BLOC 5 POSITION PUSH-ON TERMS				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHAS, 12 IN 40 APS OPER PNL, 115V-TPS CRU		
APP'D-MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0945050-0013 AM		

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL			PART NUMBER		REV	
			DATE	PAGE	OF	LM 0945050-0013		AM	
PNIT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0042	0001.000	EA		0946650-0001	AC POWER CONVERTER				
0042A					1A2				
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL	-AN960C6L		
0049	00002.000	EA		0946668-0001	PIN, GUIDE, POWER SUPPLY				
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN				
0052	00004.000	EA		0411114-0104	NUT, PLAIN HEX, #10				
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES				
0054	00001.000	EA		0946637-0001	LABEL, POWER				
0055	00001.000	EA		0946703-0002	LABEL, FILTER				
0059	00006.000	EA		0972171-0048	TERMINAL, RCPT-#22-18AWG .032TABS PUSH/ON AMP	-42599-4	STRIP		
0062	00003.000	EA		0947512-0002	FAN ASSEMBLY				
0062A					1B1, 1B2, 1B3				
0063	REF	EA		0946685-9901	WIRE LIST, 12IN				
0066	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT				
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS				
0071	00002.000	EA		0411027-0008	WASHER, FLAT, #10				
0076	00002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER		-NAS151SH03L		
0077	00010.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32				
0078	00001.000	EA		0940970-0001	SHIELD 990-40 PHR SUPPLY				
0079	00008.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHAS, 12 IN 40 APS OPER PNL, 115V-TPS CRU		
APP'D-MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0945050-0013 AM		

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL			PART NUMBER		REV	
			DATE	PAGE	OF	LM 0945050-0013		AM	
PNIT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER				
0083	00009.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREA FORMING, SLOTTED	HE	-A0		
0086	00002.000	EA		0947544-0001	LABEL, CAUTION				
0087	00000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR	-DC 340		
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION				
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX				
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES				
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C				
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW				
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T	-105C-2		
0096	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES				
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES				
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CMPT AND ASSOC PRPHLS				
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS				
0101	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM, SLOT HX WSR HD				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHAS, 12 IN 40 APS OPER PNL, 115V-TPS CRU		
APP'D-MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 0945050-0013 AM		

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 1 of 4 PART NUMBER LM 0945050-0014 REV AN

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0940100-0001	CHASSIS, 12.25 INCH	
0002	00001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH	
0003	00002.000	EA		0946700-0003	LABEL, GEN PURPOSE	
0004	00001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH	
0005	00001.000	EA		0945152-0002	FILTER, AER, 12 IN CHASSIS, 11X11.6 IN	
0006	00001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990	
0006A					1A1	
0007	00001.000	EA		0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990	
0007A					1A4	
0008	00001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK	
0010	00001.000	EA		0232092-0003	HOLDER FUSE MKP-HH	BUS -MKP-HH
0010A					1XF1	
0011	00001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915-GLM10
0011A					1F1	
0012	00001.000	EA		0946630-0001	LABEL, BATTERY CONTROLS, BLANK	
0013	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA	
0014	00001.000	EA		0975522-0001	CABLE ASSY, POWER CORD	
0015	00001.000	EA		2210820-0001	FILTER, POWERLINE, RFI SUPPRESSION	
0015A					1FL1	
0016	00002.000	EA		0972604-0013	SCREW, THD FRMG, HEX-WSHR HD, 6-32X.625LG	

DRAFTSMAN: DATE: C/D: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL FDS 115V
 APP'D: MFC: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER LM 0945050-0014 REV AN

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 2 of 4 PART NUMBER LM 0945050-0014 REV AN

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0017	00013.000	EA		0972604-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-WSHR HD, 6-19X1.00LG	
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT MX MSR HD	
0022	00001.000	EA		0945230-0001	LABEL, SIDE	
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE	
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-6Z-67
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE	
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990	
0029A					1A3	
0030	00001.000	EA		0972930-0009	CAP., 4200 PF, 250 V	
0030A					1C1	
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS	
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990	
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - HAS671C6
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0035	00002.000	EA		0945030-0001	INSULATOR- CHASSIS, 12IN	
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PHD - SST4S
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD	
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990	
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.	

DRAFTSMAN: DATE: C/D: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL FDS 115V
 APP'D: MFC: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER LM 0945050-0014 REV AN

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 3 of 4 PART NUMBER LM 0945050-0014 REV AN

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER	
0042A					1A2	
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L
0049	00002.000	EA		0946660-0001	PIN, GUIDE, PCHER SUPPLY	
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN	
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10	
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0054	00001.000	EA		0946637-0001	LABEL, POWER	
0055	00001.000	EA		0946703-0002	LABEL, FILTER	
0062	00003.000	EA		2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH	
0062A					1B1 1B2 1B3	
0063	REF	EA		0946605-9901	WIRE LIST, 12IN	
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT	
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS	
0071	00002.000	EA		0411027-0008	WASHER, FLAT, #10	
0076	00002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L
0077	00010.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32	
0078	00001.000	EA		0948970-0001	SHIELD 990-40 PWR SUPPLY	
0079	00008.000	EA		0410131-0004	GROMMET 1/4 ID 5/8 CD 1/16	
0080	00001.000	EA		0944970-0001	RESISTOR, BLEEDER	

DRAFTSMAN: DATE: C/D: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL FDS 115V
 APP'D: MFC: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER LM 0945050-0014 REV AN

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 4 of 4 PART NUMBER LM 0945050-0014 REV AN

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0083	00009.000	EA		0972603-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD
0086	00002.000	EA		0947544-0001	LABEL, CAUTION	
0087	00000.010	TU		0415006-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION	
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX	
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES	
0093	00000.100	QT		0415004-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C	
0094	00000.100	TU		0415004-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW	
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2
0096	00002.000	EA		0972986-0000	SCREW 10-32 .375 PAN HEAD CRES	
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0098	00001.000	EA		0949970-0001	PLUG, INTERRUPT, 12IN, FDS	
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CNPT AND ASSOC PRPHLS	
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS	
0101	00006.000	EA		0972604-0010	SCREW 6-32 X 3/8 THD FRM, SLOT MX MSR HD	

DRAFTSMAN: DATE: C/D: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL FDS 115V
 APP'D: MFC: DATE: APP'D: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER LM 0945050-0014 REV AN

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0015		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0014	CHASSIS 12IN 40APS PROG PNL FDS 115V							
0102	00001.000	EA		0945133-0001	KIT INTL WOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS PROG PNL FDS 100V					
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0015		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0016		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0014	CHASSIS 12IN 40APS PROG PNL FDS 115V							
0102	00001.000	EA		0945133-0002	KIT INTL WOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS PROG PNL FDS 230V					
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0016		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0017		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0001	CHASSIS 12IN 40APS PROG PNL 115V							
0102	00001.000	EA		0945133-0003	KIT INTL WOLT 13 SLOT (220 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40A PROG PNL 220V					
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0017		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0018		REV AM		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0002	CHASSIS 12IN 40APS OPER PNL 115V							
0102	00001.000	EA		0945133-0003	KIT INTL WOLT 13 SLOT (220 VOLT SERVICE)							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40A OPER PNL 220V					
APPROV. MFG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0018		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0019		REV AM	
ITEM NO.	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945050-0007	CHASSIS, 12 IN 40 APS PROG PNL, 115V LO NO						
0102	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)						
DRAFTSMAN: DATE: CVD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40A PROG PNL 220V LO NOISE APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: AM LM 0945050-0019											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0020		REV AM	
ITEM NO.	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945050-0008	CHASSIS, 12 IN 40 APS OPER PNL, 115V LO NO						
0102	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)						
DRAFTSMAN: DATE: CVD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40A OPER PNL 220V LO NOISE APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: AM LM 0945050-0020											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0021		REV AM	
ITEM NO.	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0940100-0001	CHASSIS, 12.25 INCH						
0002	00001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH						
0003	00002.000	EA		0946700-0003	LABEL, GEN PURPOSE						
0004	00001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH						
0005	00001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN						
0006	00001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990						
0006A					1A1						
0007	00001.000	EA		0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990						
0007A					1A4						
0008	00001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK						
0010	00001.000	EA		0232092-0003	HOLDER FUSE HXP-HH	BUS -HXP-HH					
0010A					1XF1						
0011	00001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915-GLH10					
0011A					1F1						
0012	00001.000	EA		0946638-0001	LABEL, BATTERY CONTROLS, BLANK						
0013	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0014	00001.000	EA		0975522-0001	CABLE ASSY, POWER CORD						
0015	00001.000	EA		2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION						
0015A					1FL1						
0016	00002.000	EA		0972684-0013	SCREW, THD FRNG, HEX-WSHR HD, 6-32X.625LG						
DRAFTSMAN: DATE: CVD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL TXDS 115V APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: AM LM 0945050-0021											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945050-0021		REV AM	
ITEM NO.	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0017	00013.000	EA		0972684-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-WSHR HD, 6-19X1.00LG						
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLCT HX WSR HD						
0022	00001.000	EA		0945230-0001	LABEL, SIDE						
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE						
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-6Z-67					
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE						
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990						
0029A					1A3						
0030	00001.000	EA		0972930-0069	CAP., 4200 PF, 250 V						
0030A					1C1						
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS						
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990						
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0035	00002.000	EA		0945038-0001	INSULATOR- CHASSIS, 12IN						
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST4S					
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990						
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS						
DRAFTSMAN: DATE: CVD DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL TXDS 115V APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: AM LM 0945050-0021											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945050-0021		REV AM		
PRINT ITEM NUMBER	QUANTITY BY ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0042	0001.000	EA		0946650-0001	AC POWER CONVERTER							
0042A					1A2	QPL - AN9606L						
0043	0001.000	EA		0416622-0013	WASHER #6 FLAT							
0049	0002.000	EA		0946668-0001	PIN, GUIDE, PCWR SUPPLY							
0050	0003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN							
0052	0004.000	EA		0411114-0104	NUT, PLAIN HEX, #10							
0053	0002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0054	0001.000	EA		0946637-0001	LABEL, POWER							
0055	0001.000	EA		0946703-0002	LABEL, FILTER							
0062	0003.000	EA		2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH							
0062A					101 102 103							
0063	REF	EA		0946685-9901	WIRE LIST, 12IN							
0064	0001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT							
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS							
0071	0002.000	EA		0411027-0008	WASHER, FLAT, #10							
0076	0002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L						
0077	00010.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32							
0078	00001.000	EA		0948970-0001	SHIELD 990-40 PWR SUPPLY							
0079	00008.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16							
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS PROG PNL TXDS 115V				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0021		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0945050-0021		REV AM		
PRINT ITEM NUMBER	QUANTITY BY ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0083	00009.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD						
0086	0002.000	EA		0947544-0001	LABEL, CAUTION							
0087	40000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340						
0088	0001.000	EA		0962571-0001	PLATE, IDENTIFICATION							
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX							
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES							
0093	00004.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C							
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2						
0096	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES							
0097	40002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0098	00001.000	EA		0949970-0002	PLUG, INTERRUPT, 12IN, FS990							
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CMPT AND ASSOC PRPHLS							
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS							
0101	00006.000	EA		0972684-0010	SCREW 8-32 X 3/8 THD FRM, SLOT HEX WSR HD							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS PROG PNL TXDS 115V				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0021		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0022		REV AM		
PRINT ITEM NUMBER	QUANTITY BY ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0021	CHASSIS 12IN 40APS PROG PNL TXDS 115V							
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS PROG PNL TXDS 100V				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0022		AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0023		REV AM		
PRINT ITEM NUMBER	QUANTITY BY ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0021	CHASSIS 12IN 40APS PROG PNL TXDS 115V							
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS PROG PNL TXDS 230V				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0945050-0023		AM		

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 1 of PART NUMBER LM 0945050-0024 REV AM

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	0001.000	EA		0940100-0001	CHASSIS, 12.25 INCH	
0002	0001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH	
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE	
0004	0001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH	
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN	
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990	
0006A				1A1		
0007	0001.000	EA		0945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990	
0007A				1A4		
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK	
0010	0001.000	EA		0232092-0003	HOLDER FUSE MKP-HH	BUS -MKP-HH
0010A				1XF1		
0011	0001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915-GLH10
0011A				1F1		
0012	0001.000	EA		0946630-0001	LABEL, BATTERY CONTROLS, BLANK	
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA	
0014	0001.000	EA		0975522-0001	CABLE ASSY, POWER CORD	
0015	0001.000	EA		2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION	
0015A				1FL1		
0016	0002.000	EA		0972604-0013	SCREW, THD FRNC, HEX-WSHR HD, 6-32 X .625LG	

CHASSIS 12IN 40APS PROG PNL DX10 115V
LM 0945050-0024 AM

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 2 of PART NUMBER LM 0945050-0024 REV AM

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0017	00013.000	EA		0972604-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD	
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-WSHR HD, 6-19X1.00LG	
0020	00002.000	EA		0972603-0007	SCREW, 6-20X 5/8 THD FRN, SLOT HX WSR HD	
0022	00001.000	EA		0945230-0001	LABEL, SIDE	
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE	
0025	00011.000	EA		0972002-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-6Z-67
0027	AR	EA		0972632-0003	STRAP, TIE DOW, CABLE	
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990	
0029A				1A3		
0030	00001.000	EA		0972930-0001	CAP., 4200 PF, 250 V	
0030A				1C1		
0031	00001.000	EA		0945003-0001	WIRING HARNESS, 12IN CHASSIS	
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990	
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - HAS67106
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0035	00002.000	EA		0945030-0001	INSULATOR- CHASSIS, 12IN	
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD	
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990	
0041	00001.000	EA		0972604-0003	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS	

CHASSIS 12IN 40APS PROG PNL DX10 115V
LM 0945050-0024 AM

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 3 of PART NUMBER LM 0945050-0024 REV AM

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER	
0042A				1A2		
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN96064
0049	00002.000	EA		0946660-0001	PIN, GUIDE, POWER SUPPLY	
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN	
0052	00004.000	EA		0411114-0104	NUT, PLAIN HEX, #10	
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0054	00001.000	EA		0946637-0001	LABEL, POWER	
0055	00001.000	EA		0946703-0002	LABEL, FILTER	
0062	00003.000	EA		2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH	
0062A				1B1 1B2 1B3		
0063	REF	EA		0946605-9901	WIRE LIST, 12IN	
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT	
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS	
0071	00002.000	EA		0411027-0008	WASHER, FLAT, #10	
0076	00002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- HAS1515H03L
0077	00016.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32	
0078	00001.000	EA		0940970-0001	SHIELD 990-40 PWR SUPPLY	
0079	00006.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16	
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER	

CHASSIS 12IN 40APS PROG PNL DX10 115V
LM 0945050-0024 AM

TEXAS INSTRUMENTS INCORPORATED DATE 01/31/80 LIST OF MATERIAL PAGE 4 of PART NUMBER LM 0945050-0024 REV AM

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0083	00009.000	EA		0972603-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD
0086	00002.000	EA		0947544-0001	LABEL, CAUTION	
0087	00000.010	TU		0415004-0003	GREASE, SILICONE, HEAT COND.	CDR - DC 340
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION	
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX	
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES	
0093	00000.100	QT		0415004-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C	
0094	00000.100	TU		0415004-0011	SURFACE PRIMER, COMPOND GRADE T YELLOW	
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2
0096	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES	
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES	
0098	00001.000	EA		0949970-0003	PLUG, INTERRUPT, 12IN, DS990	
0099	REF	EA		0948952-9901	T.P., SYS TEST, 990 CMT AND ASSOC PRPHLS	
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS	
0101	00006.000	EA		0972604-0010	SCREW 8-32 X 3/8 THD FRN, SLOT HX WSR HD	

CHASSIS 12IN 40APS PROG PNL DX10 115V
LM 0945050-0024 AM

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0025		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945050-0024	CHASSIS 12IN 40APS PROG PNL DX10 115V						
0102	00001.000	EA		0945133-0001	KIT INTL VOLT 13 SLOT (100 VOLT SERVICE)						
DRAFTSMAN _____ DATE _____ CDD. DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CHASSIS 12IN 40APS PROG PNL DX10 100V APPR. ENG. _____ DATE _____ APPR. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0945050-0025 REV AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0026		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945050-0024	CHASSIS 12IN 40APS PROG PNL DX10 115V						
0102	00001.000	EA		0945133-0002	KIT INTL VOLT 13 SLOT (230 VOLT SERVICE)						
DRAFTSMAN _____ DATE _____ CDD. DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CHASSIS 12IN 40APS PROG PNL DX10 230V APPR. ENG. _____ DATE _____ APPR. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0945050-0026 REV AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0027		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0940100-0001	CHASSIS, 12.25 INCH						
0002	00001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH						
0003	00002.000	EA		0946700-0003	LABEL, GEN PURPOSE						
0004	00001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH						
0005	00001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN						
0006	00001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990						
0006A					1A1						
0007	00001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990						
0007A					1A4						
0008	00001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK						
0010	00001.000	EA		0232092-0003	HOLDER FUSE MKP-HH	BUS -MKP-HH					
0010A					1X1						
0011	00001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915-GLM10					
0011A					1F1						
0012	00001.000	EA		0944630-0001	LABEL, BATTERY CONTROLS, BLANK						
0013	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA						
0014	00001.000	EA		0975322-0001	CABLE ASSY, POWER CORD						
0015	00001.000	EA		2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION						
0015A					1FL1						
0016	00002.000	EA		0972004-0013	SCREW, TND FRNG, HEX-BSHR HD, 6-32X.625LG						
DRAFTSMAN _____ DATE _____ CDD. DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CHASSIS 12IN 40APS OP PNL TXDS 115V APPR. ENG. _____ DATE _____ APPR. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0945050-0027 REV AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945050-0027		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0017	00003.000	EA		0972004-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD						
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-BSHR HD, 6-19X1.00LG						
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 TND FRN, SLOT HX WSR HD						
0022	00001.000	EA		0945230-0001	LABEL, SIDE						
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE						
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7707-62-67					
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE						
0029	00001.000	EA		0944900-0001	POWER SUPPLY, 40 AMP, 990						
0029A					1A3						
0030	00001.000	EA		0972930-0049	CAP., 4200 MF, 250 V						
0030A					1C1						
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS						
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990						
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0035	00002.000	EA		0945030-0001	INSULATOR, CHASSIS, 12IN						
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST4S					
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990						
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.						
DRAFTSMAN _____ DATE _____ CDD. DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE CHASSIS 12IN 40APS OP PNL TXDS 115V APPR. ENG. _____ DATE _____ APPR. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER LM 0945050-0027 REV AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945050-0027		REV AM		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER							
0042A					1A2							
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AM960C6L						
0049	00002.000	EA		0946669-0001	PIN, GUIDE, POWER SUPPLY							
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN							
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10							
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0054	00001.000	EA		0946637-0001	LABEL, POWER							
0055	00001.000	EA		0946703-0002	LABEL, FILTER							
0062	00003.000	EA		2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH							
0062A					101 102 103							
0063	REF	EA		0946685-9901	WIRE LIST, 12IN							
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT							
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS							
0071	00002.000	EA		0411027-0000	WASHER, FLAT, #10							
0076	00002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- MAS1915H00L						
0077	00010.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32							
0078	00001.000	EA		0940970-0001	SHIELD 990-40 PWR SUPPLY							
0079	00006.000	EA		0410131-0004	GROMMET 1/4 ID 5/8 OD 1/16							
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OP PNL TXDS 115V		
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0027 REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0945050-0027		REV AM		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0083	00009.000	EA		0972603-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD						
0086	00002.000	EA		0947544-0001	LABEL, CAUTION							
0087	00000.010	TU		0415884-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340						
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION							
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX							
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES							
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C							
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW							
0095	00004.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03090H-T-105C-2						
0096	00002.000	EA		0972986-0008	SCREW 10-32 .375 PAN HEAD CRES							
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES							
0098	00001.000	EA		0949970-0002	PLUG, INTERRUPT, 12IN, F5990							
0099	REF	EA		0940952-9901	T.P., SYS TEST, 990 CMPT AND ASSOC PRPHLS							
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS							
0101	00006.000	EA		0972604-0011	SCREW 8-32 X 3/8 THD FRM, SLOT HK MSR HD							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OP PNL TXDS 115V		
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0027 REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0028		REV AM		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0027	CHASSIS 12IN 40APS OP PNL TXDS 115V							
0102	00001.000	EA		0945133-0001	KIT INTL WOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OP PNL TXDS 100V		
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0028 REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0029		REV AM		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0027	CHASSIS 12IN 40APS OP PNL TXDS 115V							
0102	00001.000	EA		0945133-0002	KIT INTL WOLT 13 SLOT (230 VOLT SERVICE)							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS 12IN 40APS OP PNL TXDS 230V		
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0029 REV AM		

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL				DATE 01/31/80		PAGE 1 of		PART NUMBER LM 0945050-0030		REV AM
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0001	0001.000	EA		0940100-0001	CHASSIS, 12.25 INCH									
0002	0001.000	EA		0940074-0001	COVER, ACCESS. REAR, 12.25 INCH									
0003	0002.000	EA		0946700-0003	LABEL, GEN PURPOSE									
0004	0001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH									
0005	0001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN									
0006	0001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990									
0006A				1A1										
0007	0001.000	EA		0945030-0001	FRONT PANEL ASSEMBLY, OPERATOR, 990									
0007A				1A4										
0008	0001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK									
0010	0001.000	EA		0232092-0003	HOLDER FUSE MKP-HH	BUS		-MKP-HH						
0010A				1XF1										
0011	0001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP	075915		-GLH10						
0011A				1F1										
0012	0001.000	EA		0946630-0001	LABEL, BATTERY CONTROLS, BLANK									
0013	0001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.36 WIRE .625 DIA									
0014	0001.000	EA		0975522-0001	CABLE ASSY, POWER CORD									
0015	0001.000	EA		2210820-0001	FILTER, POWERLINE, RFI SUPPRESSION									
0015A				1FL1										
0016	00002.000	EA		0972604-0013	SCREW, THD FRM, HEX-NSHR HD, 6-32X.625LG									
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____														
CHASSIS 12IN 40APS OP PNL DX10 115V														
APPROVED _____ DATE _____ APPRO. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____														
PART NUMBER LM 0945050-0030														
REV AM														

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL				DATE 01/31/80		PAGE 2 of		PART NUMBER LM 0945050-0030		REV AM
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0017	00013.000	EA		0972604-0034	SCREW, 6-32 X 1/4 HEX WASHER HEAD									
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-NSHR HD, 6-19X1.00LG									
0020	00002.000	EA		0972603-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HX MSR HD									
0022	00001.000	EA		0945230-0001	LABEL, SIDE									
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE									
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	070553		-C7707-62-67						
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE									
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990									
0029A				1A3										
0030	00001.000	EA		0972930-0009	CAP., 4200 MF, 250 V									
0030A				1C1										
0031	00001.000	EA		0945063-0001	WIRING HARNESS, 12IN CHASSIS									
0032	00001.000	EA		0944904-0001	LABEL-CONFIGURATION, 12IN, 990									
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-20 HEX CRES, SMALL	QPL		-NAS671C6						
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL		-MS35333-71						
0035	00002.000	EA		0945030-0001	INSULATOR, CHASSIS, 12IN									
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND		-SST4S						
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD									
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990									
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS									
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____														
CHASSIS 12IN 40APS OP PNL DX10 115V														
APPROVED _____ DATE _____ APPRO. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____														
PART NUMBER LM 0945050-0030														
REV AM														

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL				DATE 01/31/80		PAGE 3 of		PART NUMBER LM 0945050-0030		REV AM
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0042	00001.000	EA		0946650-0001	AC POWER CONVERTER									
0042A				1A2										
0048	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL		-AN960C6L						
0049	00002.000	EA		0946640-0001	PIN, GUIDE, POWER SUPPLY									
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN									
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10									
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES									
0054	00001.000	EA		0946637-0001	LABEL, POWER									
0055	00001.000	EA		0946703-0002	LABEL, FILTER									
0062	00003.000	EA		2262142-0002	FAN ASSY, LUGGED, LO NOISE, 12 INCH									
0062A				101 102 103										
0063	REF	EA		0946605-9901	WIRE LIST, 12IN									
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT									
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS									
0071	00002.000	EA		0411027-0000	WASHER, FLAT, #10									
0076	00002.000	EA		0418730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER			-NAS151SH03L						
0077	00016.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32									
0070	00001.000	EA		0940970-0001	SHIELD 990-40 PWR SUPPLY									
0079	00000.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16									
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER									
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____														
CHASSIS 12IN 40APS OP PNL DX10 115V														
APPROVED _____ DATE _____ APPRO. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____														
PART NUMBER LM 0945050-0030														
REV AM														

TEXAS INSTRUMENTS INCORPORATED				LIST OF MATERIAL				DATE 01/31/80		PAGE 4 of		PART NUMBER LM 0945050-0030		REV AM
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER								
0083	00009.000	EA		0972603-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE		-A0						
0086	00002.000	EA		0947544-0001	LABEL, CAUTION									
0087	00000.010	TU		0415086-0003	GREASE, SILICONE, HEAT COND.	COR		-DC 340						
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION									
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX									
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES									
0093	40000.100	QT		0415004-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C									
0094	00000.100	TU		0415004-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW									
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H		-T-105C-2						
0096	00002.000	EA		0972906-0008	SCREW 10-32 .375 PAN HEAD CRES									
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES									
0098	00001.000	EA		0949970-0003	PLUG, INTERRUPT, 12IN, DS990									
0099	REF	EA		0940952-9901	T.P., SYS TEST, 990 CNPT AND ASSOC PRPHLS									
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS									
0101	00006.000	EA		0972604-0018	SCREW 6-32 X 3/8 THD FRM, SLOT HX MSR HD									
DRAFTSMAN _____ DATE _____ CDD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____														
CHASSIS 12IN 40APS OP PNL DX10 115V														
APPROVED _____ DATE _____ APPRO. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____														
PART NUMBER LM 0945050-0030														
REV AM														

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0031		REV AM		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0030	CHASSIS 12IN 40APS OP PNL DX10 115V							
0102	00001.000	EA		0945133-0001	KIT INTL WOLT 13 SLOT (100 VOLT SERVICE)							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS OP PNL DX10 100V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0031		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0032		REV AM		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0030	CHASSIS 12IN 40APS OP PNL DX10 115V							
0102	00001.000	EA		0945133-0002	KIT INTL WOLT 13 SLCT (230 VOLT SERVICE)							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS 12IN 40APS OP PNL DX10 230V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0032		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0033		REV AM		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0021	CHASSIS 12IN 40APS PROG PNL TXDS 115V							
0102	00001.000	EA		0945133-0003	KIT INTL WOLT 13 SLOT (220 VOLT SERVICE)							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHAS,12IN 40APS PROG PNL, TXDS 220V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0033		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0034		REV AM		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101	00001.000	EA		0945050-0024	CHASSIS 12IN 40APS PROG PNL DX10 115V							
0102	00001.000	EA		0945133-0003	KIT INTL WOLT 13 SLOT (220 VOLT SERVICE)							
DRAFTSMAN		DATE	CEO DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHAS,12IN 40APS PROG PNL,DX10 220V					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0945050-0034		REV AM		

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0035		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945050-0027	CHASSIS 12IN 40APS OP PNL TXDS 115V						
0102	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)						
DRAFTSMAN: DATE: C.D. DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHAS,12IN 40APS OPER PNL, TXDS 220V APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0945050-0035 REV: AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0036		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945050-0030	CHASSIS 12IN 40APS OP PNL DX10 115V						
0102	00001.000	EA		0945133-0003	KIT INTL VOLT 13 SLOT (220 VOLT SERVICE)						
DRAFTSMAN: DATE: C.D. DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHAS,12IN 40APS OPER PNL, DX10 220V APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0945050-0036 REV: AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945050-0037		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0940100-0001	CHASSIS, 12.25 INCH						
0002	00001.000	EA		0940074-0001	COVER, ACCESS, REAR, 12.25 INCH						
0003	00002.000	EA		0946700-0003	LABEL, GEN PURPOSE						
0004	00001.000	EA		2261649-0001	COVER, SIDE, 12.25 INCH						
0005	00001.000	EA		0945152-0002	FILTER, AIR, 12 IN CHASSIS, 11X11.6 IN						
0006	00001.000	EA		0945015-0001	BACKPANEL ASSY, 12IN, 990						
0006A					1A1						
0007	00001.000	EA		0945020-0002	FRT PNL ASSY, PROG PNL-JOHNSON CONTROLS						
0007A					1A4						
0008	00001.000	EA		0945022-0001	FRONT PANEL-5-1/4IN, BLANK						
0010	00001.000	EA		0232092-0003	HOLDER FUSE HKP-MH	BUS -HKP-MH					
0010A					1XF1	075915-GLM10					
0011	00001.000	EA		0416434-0005	FUSE, TYPE 3AG 125V 10 AMP						
0011A					1F1						
0013	00001.000	EA		0454990-0025	BUSHING, STR RLF-.325-.34 WIRE .625 DIA						
0014	00001.000	EA		0975522-0001	CABLE ASSY, POWER CORD						
0015	00001.000	EA		2210020-0001	FILTER, POWERLINE, RFI SUPPRESSION						
0015A					1FL1						
0016	00002.000	EA		0972604-0013	SCREW, THD FRMG, HEX-NSHR HD, 6-32X.625LG						
0017	00013.000	EA		0972604-0034	SCREW, 6-32 x 1/4 HEX WASHER HEAD						
DRAFTSMAN: DATE: C.D. DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL 115V SPECIAL APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0945050-0037 REV: AM											

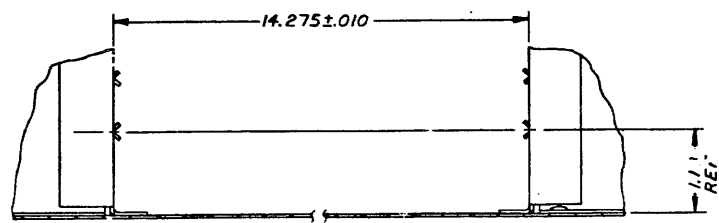
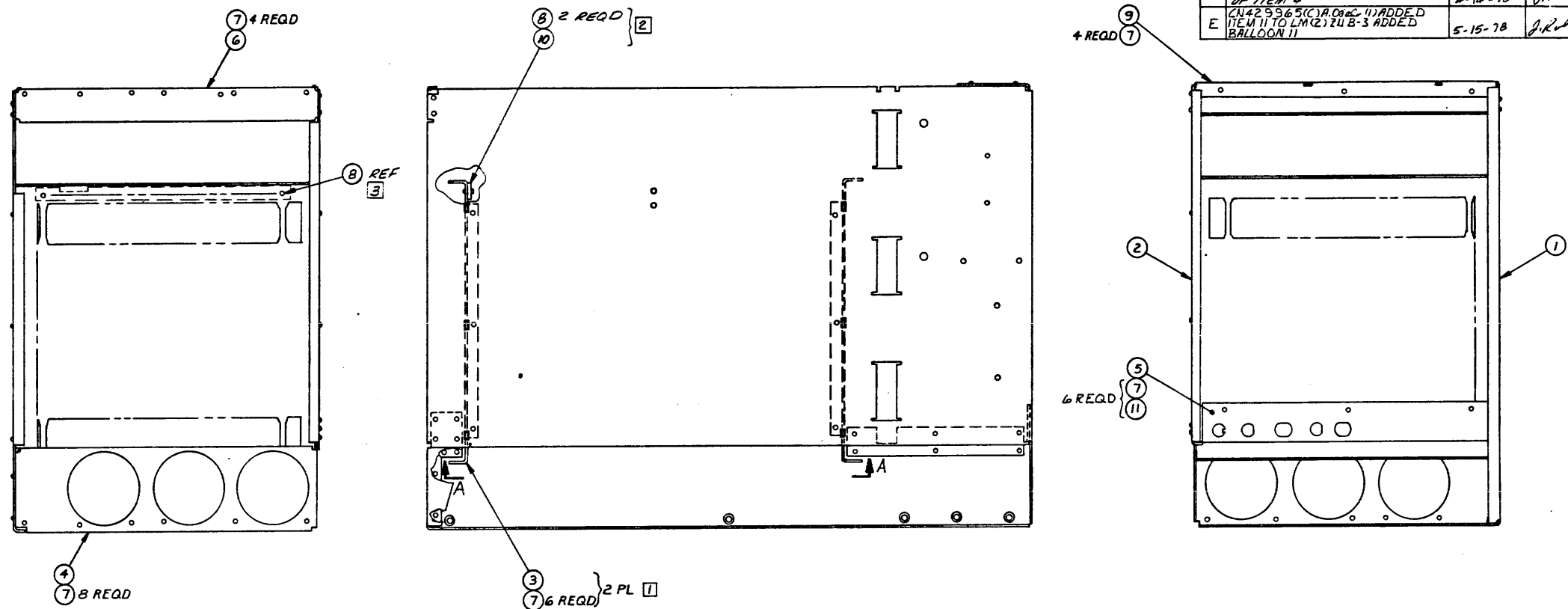
TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945050-0037		REV AM	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0018	00004.000	EA		0972679-0017	SCREW, PLASTITE, HEX-NSHR HD, 6-19XL.00LG						
0020	00002.000	EA		0972683-0007	SCREW, 6-20X 5/8 THD FRM, SLOT HK NSR HD						
0022	00001.000	EA		0945230-0001	LABEL, SIDE						
0024	00003.000	EA		0972791-0017	CLAMP, CABLE, 1.5IN WIDE						
0025	00011.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C707-62-67					
0027	AR	EA		0972632-0003	STRAP, TIE DOWN, CABLE						
0029	00001.000	EA		0944980-0001	POWER SUPPLY, 40 AMP, 990						
0029A					1A3						
0030	00001.000	EA		0972930-0069	CAP., 4200 HF, 250 V						
0030A					1C1						
0031	00001.000	EA		0945043-0001	WIRING HARNESS, 12IN CHASSIS						
0032	00001.000	EA		0944904-0015	LABEL-CONFIGURATION, 12IN, 990, SPECIAL						
0033	00004.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6					
0034	00015.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - RS35333-71					
0035	00002.000	EA		0945030-0001	INSULATOR- CHASSIS, 12IN						
0037	00002.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45					
0038	00001.000	EA		0946704-0001	LABEL, TERMINAL BOARD						
0039	REF	EA		0944961-9901	SPECIFICATION, CHASSIS, 990						
0041	00001.000	EA		0975270-0005	TERMINAL BLOCK 5 POSITION PUSH-ON TERMS.						
0042	00001.000	EA		0944650-0001	AC POWER CONVERTER						
DRAFTSMAN: DATE: C.D. DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: CHASSIS 12IN 40APS PROG PNL 115V SPECIAL APPD. MFG: DATE: APPD. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM 0945050-0037 REV: AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0945050-0037		REV AM	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0042A					1A2						
0043	00001.000	EA		0416622-0013	WASHER #6 FLAT	QPL - AN960C6L					
0049	00002.000	EA		0946668-0001	PIN, GUIDE, POWER SUPPLY						
0050	00003.000	EA		0972791-0019	KEEPER, CLAMP, 1.5IN						
0052	00004.000	EA		0411116-0104	NUT, PLAIN HEX, #10						
0053	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0054	00001.000	EA		0946637-0001	LABEL, POWER						
0055	00001.000	EA		0946703-0002	LABEL, FILTER						
0059	00006.000	EA		0972171-0048	TERMINAL, ACPT-#22-18AWG .032TABS PUSH/ON AMP	-42599-4 STRIP					
0062	00003.000	EA		0947512-0002	FAN ASSEMBLY						
0062A					101 102 103						
0063	REF	EA		0946685-9901	WIRE LIST, 12IN						
0064	00001.000	EA		0946739-0001	PLUG, STANDBY REPLACEMENT						
0065	REF	EA		0946736-9901	WIRING DIAGRAM, 12.25 CHASSIS						
0071	00002.000	EA		0411027-0000	WASHER, FLAT, #10						
0076	00002.000	EA		0410730-0109	WASHER #10 PLASTIC & SYNTHETIC RUBBER	- NAS1515H03L					
0077	00010.000	EA		0972604-0011	SCREW, THREAD FORMING, #6-32						
0078	00001.000	EA		0948970-0001	SHIELD 990-40 PWR SUPPLY						
0079	00000.000	EA		0416131-0006	GROMMET 1/4 ID 5/8 OD 1/16						
0080	00001.000	EA		0944979-0001	RESISTOR, BLEEDER						
DRAFTSMAN DATE CAD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CHASSIS 12IN 40APS PROG PNL 115V SPECIAL											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945050-0037 AM											

TEXAS INSTRUMENTS INCORPORATED		DATE 01/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0945050-0037		REV AM	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0083	00009.000	EA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD					
0086	00002.000	EA		0947544-0001	LABEL, CAUTION						
0087	00000.010	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - DC 340					
0088	00001.000	EA		0962571-0001	PLATE, IDENTIFICATION						
0091	00012.000	EA		0972679-0013	SCREW # 6-19 X 1/2 SLOTTED HEX						
0092	00003.000	EA		0972992-0011	SCREW 10-32 .500 FLT HEAD CRES						
0093	00000.100	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C						
0094	00000.100	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0095	00000.150	FT		0972436-0013	INSUL SLVG, .263DIA X .020 WALL THK PVC	03890H-T-105C-2					
0096	00002.000	EA		0972986-0000	SCREW 10-32 .375 PAN HEAD CRES						
0097	00002.000	EA		0411100-0073	LOCKWASHER #10 INTERNAL TOOTH CRES						
0098	00001.000	EA		0946741-0007	PLUG ASSY, INTERRUPT, 12IN, SPECIAL						
0099	REF	EA		0948952-9901	T.P. SVS TEST, 990 CMPT AND ASSOC PRPHLS						
0100	00001.000	EA		0936407-0001	FAN PLATE, 12 INCH CHASSIS						
0101	00006.000	EA		0972684-0010	SCREW 8-32 X 3/8 THD FRM, SLOT HX WSR HD						
DRAFTSMAN DATE CAD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CHASSIS 12IN 40APS PROG PNL 115V SPECIAL											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0945050-0037 AM											

NOTES: UNLESS OTHERWISE SPECIFIED:
 1 INSERT TABS ON ITEM 3 INTO SLOTS IN ITEMS 1 AND 2
 2 INSTALL ITEM 8 AND 10 TO ITEM 3 PRIOR TO INSTALLATION TO ITEMS 1 AND 2
 3 INSTALL ITEM 8 NEAR SIDE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	6.774.112 (1) ITEM 7 WAS 97244-0007 RIVET, 1/8 DIA X 3/16 (2) ITEM 8 WAS 97244-0006, RIVET, 1/8 DIA X 1/8	8-16-77	KRP
B	D.R. (1) ADDED ITEM 10 (2) QTY OF ITEM 8 WAS 13 (3) REVISED NOTE 2 TO INCLUDE ITEM 10 (4) UPDATED PICTORIAL TO MATCH PIECE PARTS	11-14-77	KRP
C	R.D. (1) COMPUTERIZED LM FOR FINAL RELEASE	12-16-77	KRP
D	CHANGED ITEM 7 QTY FROM 11 TO 12 (2) REVISED PICTORIAL OF ITEM 6	4-14-78	J.R. [Signature]
E	CHANGED ITEM 5 (1) ADDED ITEM 11 TO LM (2) 2U B-3 ADDED BALLOON 11	5-15-78	J.R. [Signature]



ITEM NO	QTY	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
10	1	2261642-0001	KEY BAR		
9	1	94014-0001	PLATE, SIDE, LEFT		
8	2	972831-0004	RIVET, 1/8 DIA X .275		
7	32	972831-0002	RIVET, 1/8 DIA X .195		
6	1	940113-0001	BRACKET, CORNER		
5	1	940108-0001	CORNER BRACKET, REAR		
4	1	940106-0001	CORNER BRACKET, FRONT		
3	2	940102-0001	CARD GUIDE		
2	1	940107-0001	CHASSIS COVER		
1	1	940110-0001	CHASSIS BASE		

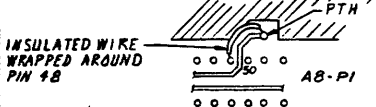
PARTS LIST		DATE		TEXAS INSTRUMENTS	
ITEM NO	QTY	DATE	DATE	INCORPORATED	
945070	7506	8-27-77	8-5-77	Dallas, Texas	
945050	7506	8-5-77	8-5-77	CHASSIS, 12.25 INCH	
NEXT ASSY USED ON		DATE		D96214 940100	
APPLICATION		DATE		PAGE 1/2	

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

TEXAS INSTRUMENTS INCORPORATED		DATE 05/08/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0940100-0001		REV E	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0940110-0001	CHASSIS BASE						
0002	00001.000	EA		0940107-0001	CHASSIS COVER						
0003	00002.000	EA		0940102-0001	CARD GUIDE, 12.25 INCH						
0004	00001.000	EA		0940106-0001	CORNER BRACKET, FRONT, 12.25 INCH						
0005	00001.000	EA		0940108-0001	CORNER BRACKET, REAR, 12.25 INCH						
0006	00001.000	EA		0940113-0001	BRACKET, CORNER, 12.25 INCH						
0007	00034.000	EA		0972831-0002	RIVET, 1/8X.195, TUBULAR, STEEL, BLIND	019738-1821-0406					
0008	00007.000	EA		0972831-0004	RIVET, 1/8X.275, TUBULAR, STEEL, BLIND	019738-1821-0410					
0009	00001.000	EA		0940114-0001	PLATE, SIDE, LEFT, 12.25 INCH						
0010	00001.000	EA		2261642-0001	KEYBAR, 12.25 INCH CHASSIS						
0011	00006.000	EA		0972831-0001	RIVET, 1/8X.155, TUBULAR, STEEL, BLIND	019738-1821-0404					

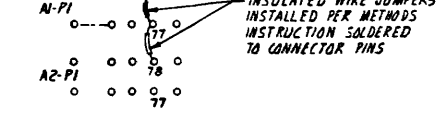
DRAFTSMAN	DATE	CHKD	DATE	DESIGN	DATE	TITLE	
		<i>J. R. [Signature]</i>	5-8-78			CHASSIS, 12.25 INCH	
APP'D - JMC	DATE	APP'D - PROJECT ENGINEER	DATE	REMARKS	DATE	PROJECT NO.	
						7506	
						PART NUMBER LM0940100-0001	REV E

NOTES: CONT
 2. REWORK FOR PWB 945016 THRU REV B
 A. USE NO 20 TO 24 AWG INSULATED WIRE FROM PLATED THRU HOLE TO AB-PI, PIN 48 AS FOLLOWS:

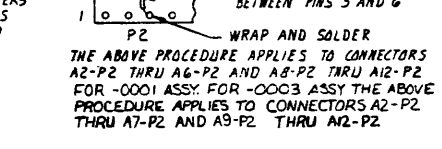


3. INSTALL ITEM 21 CONDUCTOR SIDE BETWEEN A1C AND A11 AT SLEEVE HOLE
 4. ITEM 9 MAY BE SUBSTITUTED FOR ITEM 21 IF ITEM 9 IS MODIFIED
 NOTES CONT. ZONE B-2

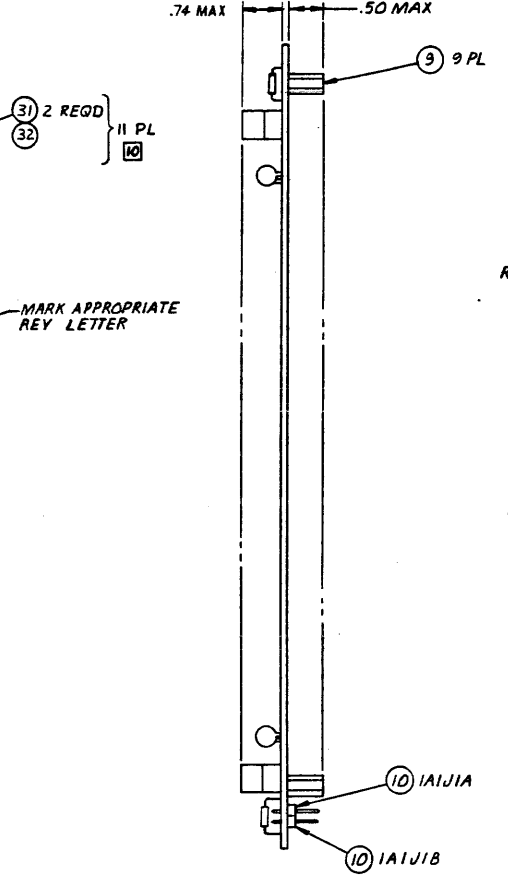
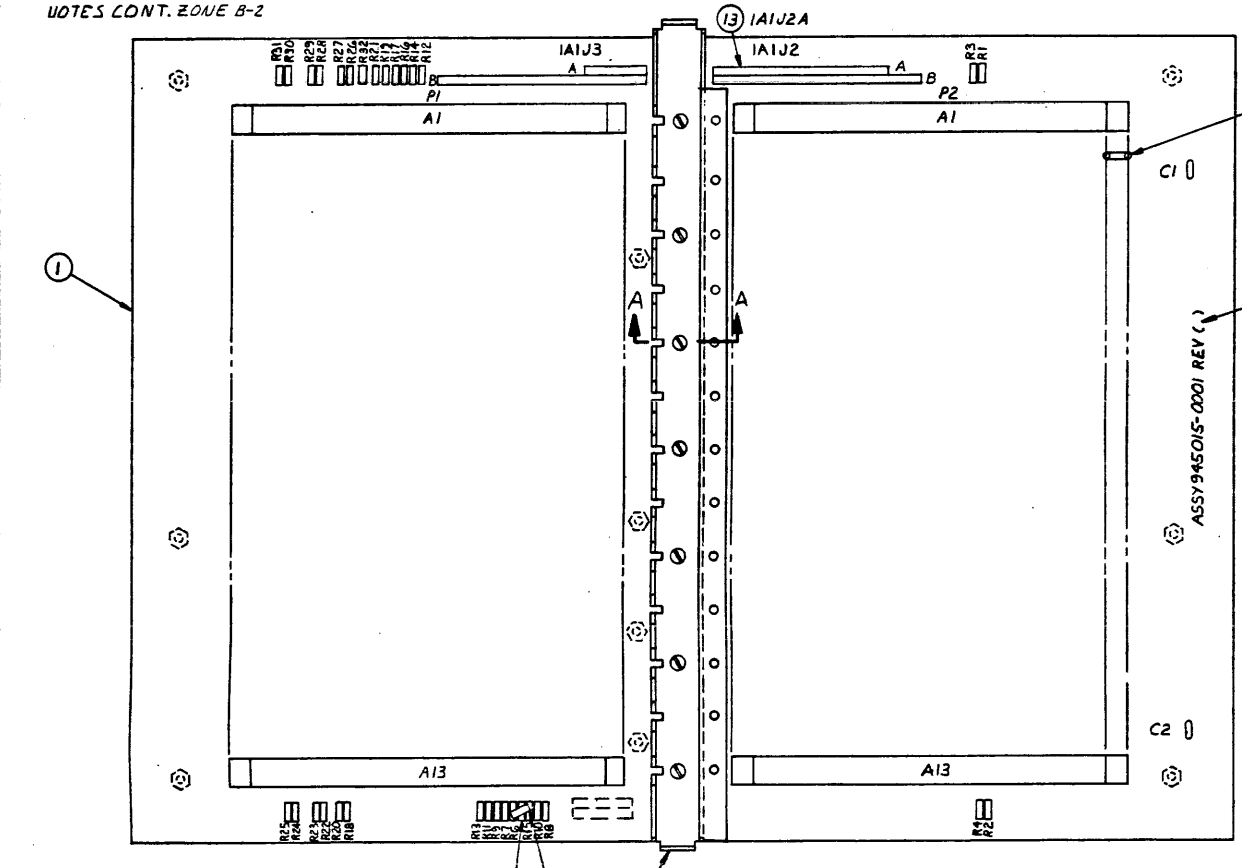
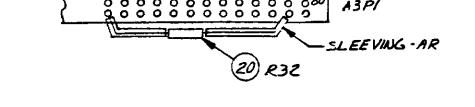
NOTES: CONT
 1. C. USING NO 22 TO 24 AWG INSULATED WIRE CONNECT A1-PI PINS 77 AND 78 TO A2-PI PIN 78 AS FOLLOWS:



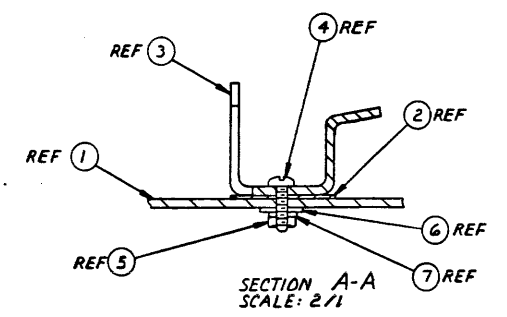
NOTES: CONT
 1. B. USE NO 24 AWG INSULATED WIRE TO CONNECT THE FOLLOWING CONNECTOR PINS ON THE CONDUCTOR SIDE OF PWB AS FOLLOWS:



NOTES:
 1. REWORK FOR PWB 945016, REV. B
 A. ADD RESISTOR, ITEM NO 20 PN 912996-0057 BETWEEN A3P1-55 AND A3P1-77. IF REQUIRED, SLEEVE RESISTOR LEADS USING SLEEVING PN #10999-0006



REVISIONS			
ZONE	LTR	DESCRIPTION	DATE APPROVED
A		CN 406978 (C) D. ... ADDED ITEM 20-20 A 13 ITEM 9 WAS 203153-0033 (3) ADDED NOTE 1	3/30/76
B		CN 406807 (B) M. ... ADDED NOTE 1B (2) UPDATED REV LEVEL BLOCK	5-4-76
C		CN 394394 (B) M. ... ADDED NOTE 1C (2) NOTE 1 A A3P1 WAS A1P1 (3R) (3) UPDATED REV LEVEL BLOCK	5-4-76
D		CN 406203 (B) M. ... ADDED NOTE 2 (2) UPDATED REV LEVEL BLOCK	5-4-76
E		CN 407676 (C) A. ... IN L M P4 ITEM 9 WAS 945153-1, DESC WAS STAND OFF CRIMP QTY WAS 10 (2) ADDED ITEM 21 (3) ADDED NOTES 3 AND 4 TO FD (4) REVISED REV LEVEL BLOCK	7/11/76
F		CN 407107 (C) A. ... IN L M P4 ITEM 16 WAS 972946-C062 (2) ADDED NOTE 5 TO FD (3) REVISED REV LEVEL BLOCK	8/11/76



NOTES: CONT
 5. AN ALTERNATE PART FOR ITEM 10 IS 996076-0001 ONLY ONE OF 996076-0001 IS REQUIRED TO REPLACE TWO EACH OF ITEM 10
 NOTES CONT ON SH 2

PART NUMBER	DESCRIPTION
945015-0003	BACKPANEL ASSY, 12 IN. 390, SPECIAL
945015-0002	BACKPANEL ASSY-12 IN. TPS CRU
945015-0001	BACKPANEL ASSY-12 IN. 990

REV LEVEL	DIAGRAM (944319-9301)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
	PWB (945016-0001)	*	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	ASSY (945015-0001)	*	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z

PROCESSES:
 1. SOLDER PER F-127, METHOD I, AND/OR 124
 2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .12, COLOR BLACK

REV STATUS	REV.	A	AA
OF SHEETS	SHEET	1	2

QTY REQD	ITEM NO	CODE	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED
 REMOVE ALL BURRS AND SHARP EDGES
 CONCENTRICITY MACHINED DIAMETERS .010 F18
 DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES
 ANGLES ±1°
 3 PLACE DECIMALS ±.010
 2 PLACE DECIMALS ±.02

DATE: 1-19-76
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 26 JAN 76
 DATE: [Signature]
 DATE: [Signature]

SCALE 1/1

TEXAS INSTRUMENTS
 Equipment Group Dallas, Texas

BACKPANEL ASSY, 12 INCH, 990

CODE: IDENT NO | DRAWING NO
 D 96214 | 945015

SHEET 2 OF 2

NOTES: CONTINUED

8. INSTALL ITEM 22 PER THE FOLLOWING DIAGRAM AND CHART. LOWER TERMINALS OF ITEM 22 WITH ITEM 23.

24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																							
13P1	13P2	13P3	13P4	13P5	13P6	13P7	13P8	13P9	13P10	13P11	13P12	13P13	13P14	13P15	13P16	13P17	13P18	13P19	13P20	13P21	13P22	13P23	13P24	13P25	13P26	13P27	13P28	13P29	13P30	13P31	13P32	13P33	13P34	13P35	13P36	13P37	13P38	13P39	13P40	13P41	13P42	13P43	13P44	13P45	13P46	13P47	13P48	13P49	13P50	13P51	13P52	13P53	13P54	13P55	13P56	13P57	13P58	13P59	13P60	13P61	13P62	13P63	13P64	13P65	13P66	13P67	13P68	13P69	13P70	13P71	13P72	13P73	13P74	13P75	13P76	13P77	13P78	13P79	13P80	13P81	13P82	13P83	13P84	13P85	13P86	13P87	13P88	13P89	13P90	13P91	13P92	13P93	13P94	13P95	13P96	13P97	13P98	13P99	13P100

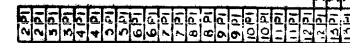
START STATION	FINISH STATION
12P2	I4
13P2	I6
11P1	11P2
11P2	I7
9P1	9P2
9P2	I10
10P1	10P2
10P2	I11
7P1	7P2
7P2	I13
12P1	I14
13P1	I15

7. PERFORM THE FOLLOWING REWORK ON -1 ASSY TO FORM A -2 ASSY USING ITEM 25

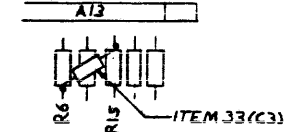
SIGNATURE	FROM	TO
MODSEL 2-	12 P2-48	13 P1-46
MODSEL 6-	10 P2-48	11 P1-46
MODSEL 10-	8 P2-48	9 P1-46
MODSEL 14-	6 P2-48	7 P1-46

8. ON -2 ASSY ONLY ADD FOLLOWING JUMPERS USING ITEM 26

- I1-13P1
- 11P1-13P1
- 9P1-11P1
- 7P1-9P1



- CONNECTOR PN 996562-0002 MAY BE SUBSTITUTED FOR PN 996562-0001 (ITEM 8)
- ON REV. C+D B03 (945016) INSTALL JUMPERS BETWEEN E1-E2, E3-E4, E5-E6, E7-E8, E9-E10, E11-E12, E13-E14, E15-E16, E17-E18, E19-E20, E21-E22 USING ITEM 29. WHEN ITEM 29 CROSSES ETCH USE ITEM 30 ALSO.
- PWB CONNECTOR PINS MAY PROTRUDE THRU THE BOARD UP TO .180 INCH
- INSTALL ITEM 33 ON BACK/SOLDER SIDE OF ASSY BETWEEN P-14 AT/A12 AND GROUND BUS (P-12).
- INSTALL ITEM 33 FROM LOAD SIDE OF R15 TO GND SIDE OF R6 AS SHOWN BELOW (COMPONENT SIDE)



ZONE	LTN	DESCRIPTION	DATE	APPROVED
G		CN419523(C) J. Valley (1) 7/10 L/M, ADDED ITEMS 22 AND 23 (2) ADDED SHEET 2 (3) ADDED NOTE 6 (4) UPDATED REVISION LEVEL BLOCK	10-7-76	J. Valley
D-6	H	CN 422686(D) R. Gundry (1) ADDED ITEM 24 ON LM (2) FID SH 1 DELETED CALLOUT FOR ITEM 22, 23 + NOTE 6 (3) SH 2 DELETED NOTE 6 (4) DELETED JUMPER SCHEDULE + PIN LAYOUT (5) ADDED CALLOUT FOR ITEM 24	11/30/76	R. Gundry
	J	CN422623(C) R. Gundry (1) ADDED NOTE 7 (2) ADDED -0002 LM	11/30/76	R. Gundry
	K	CN 422029(D) J. Valley (1) ON -2 LM ONLY DELETED ITEMS 1 & 2 (2) ADDED ITEMS 25, 26 & 27 ON -2 LM ONLY (3) ADDED NOTE 8 (SHT 2) (4) ADDED -1 ASSY ONLY TO BALLCON 24 (SHT 1) (5) UPDATED REV LEVEL BLK (SHT 1)	12-27-76	J. Valley
	L	CN417948(D) B. Williams (1) -1-2 LM ITEM 8 WAS 972676-0001 LM ITEM 11 WAS 532736-0002 (2) ADDED NOTE 7 (SH 2) (3) UPDATED REV LEVEL BLOCK	4-13-77	B. Williams
	M	CN419275(E) B. Williams (1) DELETED ITEM 24 FROM LM F/D (2) UPDATED REV LEVEL BLOCK	4-20-77	B. Williams
	N	CN 418141(C) N. Jorgensen (1) SH 1 ADDED IAIJ3 AND IAIJ2, (2) SH 1 ADDED (3) CHANGED ITEM 12 FROM 972699-0001 TO -0007; ITEM 13 FROM -0004 TO -0003 QTY. FROM 1.0 TO 2.0. (4) UPDATED REV. LEVEL BLOCK. (5) ADDED ITEMS 29+30 TO -1 + -2 ON LM/S. (6) ADDED NOTE 10. (7) ADDED R32 TO ASSY. DWG.	6-12-77	N. Jorgensen
	P	CN427337(D) C. Longinus (1) LM ITEM 3 PIN WAS 945017-1 (2) REASED PICTORIAL TO REFLECT CHANGE (3) UPDATED REV LEVEL BLOCK.	6/11/77	C. Longinus
	R	CN 427192(E) J. Valley (1) LM ITEM 12 PIN WAS 972699-0007 (2) UPDATED REV LEVEL BLOCK	8-27-77	J. Valley
	T	CN441822(C) R. Gundry (1) UPDATED REV LEVEL BLOCK (2) ADDED NOTE 11 (3) ADDED DASH NO TABLE FOR -0001 + -0002 (4) ON LM ADDED ITEMS 31 + 32 (5) IN ZONE C-4 ON FLAG NOTE 10 CALLOUT (SH 1) ADDED ITEMS 31, 2 REQD + 32; 11 PL	8-2-78	R. Gundry
	U	CN 433342(B) B. Williams (1) ADDED ITEM 33 PN 972929-0397 TO -0001 AND -0002 LM (2) ADDED NOTE 12 TO SH 2 (3) UPDATED REV LEVEL BLOCK	7-13-79	B. Williams
	V	CN433522(C) J. Valley (1) DELETED NOTE 12 (2) ADDED NOTE 13 (3) UPDATED REV LEVEL BLOCK	8-20-79	J. Valley
	W	CN433596(D) J. Valley (1) ON -0001 & -0002 LMs, THE PN FOR ITEM 13 WAS 972699-0003 (2) UPDATED REV LEVEL BLOCK	11-16-79	J. Valley
	Y	CN433546(E) J. Valley (1) ADDED -0003 LM (2) ADDED TO NOTE 1 B. FOR -0001 ASSY... (3) UPDATED REV LEVEL BLOCK	11-16-79	J. Valley
AA		CN448721(D) R. Gundry (1) LM -1-2-3 ITEM 8, QTY WAS 26.0 AND ITEM 8A DESC. WAS A1P1 THRU A13P1, A1P2 THRU A13P2. DELETED ITEM 8B (2) ADDED ITEM 34 TO LM -1, -2, 3 (3) UPDATED REVISION LEVEL BLOCK	3-6-80	R. Gundry

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945015-0001		REV AA	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945016-0001	PWB-BACKPANEL, 12IN, 990						
0002	00001.000	FA		0945017-0001	INSULATOR-BACKPANFL, 12IN, 990						
0003	00001.000	FA		0937525-0001	COMB/STIFFENER,12 INCH						
0004	00007.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0005	00007.000	FA		0411115-0044	NUT,4-40 HEXAGON CRES STEEL	MS	-35649-244				
0006	00007.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	OPL	-MS15795-803				
0007	00007.000	FA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	OPL	-MS35333-70				
0008	00000.000	EA		0996562-0001	CONNECTOR,PWB CARD-EDGE	081312-2HML400-11					
0008A					THIS IS AN ALTERNATE FOR						
0008B					ITEM 34.						
0009	00009.000	EA		0803153-0033	NUT SLEEVE-SHOULDERED BRASS						
0010	00002.000	EA		0972846-0001	HEADER PLASTIC W/M POST 150 GPTD						
0010A					1A1J1A 1A1J1B						
0011	00002.000	FA		0972965-0028	CAP, FIXED .220 MF 10% 50V						
0011A					C1 C2						
0012	00001.000	EA		0972699-0008	HEADER,WIREWRAP PIN 7 POSTS .875 LG	022526-69542-107					
0012A					1A1J3A						
0013	00001.000	EA		0972699-0009	HEADER,WIREWRAP PIN 20 POSTS 2.500 LG	022526-69542-120					
0013A					1A1J2A						
0014	00003.000	EA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BACKPANEL ASSY,12IN,990					
APPROV	DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	PART NUMBER	LM0945015-0001	REV	AA

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945015-0001		REV AA	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014A					R5 R10 R15						
0015	00014.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
0015A					R1 R2 R8 R9 R11 R12 R16 R18						
0015B					R19 R22 R24 R26 R28 R30						
0016	00014.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	-R-25				
0016A					R3 R4 R6 R7 R13 R14 R17 R20						
0016B					R21 R23 R25 R27 R29 R31						
0017	00002.000	FA		0972699-0005	HEADER W/M PIN 24 POST						
0017A					1A1J2B 1A1J3B						
0018	REF	EA		0945014-9901	SPECIFICATION, BACKPANEL ELECTRICAL, 990						
0019	REF	FA		0944919-9901	SCHEMATIC, 990 BACK PANEL, 12 INCH						
0020	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
0020A					R32						
0021	00001.000	FA		0996062-0033	STANDOFF,.138-32 X .500LG THD SWAGE	CAM	-CP350130013040				
0029	AR	FT		0411400-0020	WIPE #20 ELCTRO-TIN-PLATED,COPPER						
0030	AR	FT		0410499-0007	INSULATION SLEEVING,TEFLON #20 NATURAL	OPL	-81349				
0031	00022.000	EA		0972742-0001	SOCKET, SINGLE LEAD, PWB MFG.						
0031A					E1 THRU E22						
0032	00011.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0033	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	OPL	-M39014/01-1397				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BACKPANEL ASSY,12IN,990					
APPROV	DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0945015-0001	REV	AA

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945015-0001		REV AA	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0033A					C3						
0034	00026.000	EA		0972676-0001	CONNECTOR-CARD EDGE,80 PIN,SOLDER POST						
0034A					A1P1 THRU A13P1						
0034B					A1P2 THRU A13P2						
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BACKPANEL ASSY,12IN,990					
APPROV	DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0945015-0001	REV	AA

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945015-0002		REV AA	
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945016-0001	PWB-BACKPANEL, 12IN, 990						
0002	00001.000	EA		0945017-0001	INSULATOR-BACKPANEL, 12IN, 990						
0003	00001.000	FA		0937525-0001	COMB/STIFFENER,12 INCH						
0004	00007.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRES						
0005	00007.000	FA		0411115-0044	NUT,4-40 HEXAGON CRES STEEL	MS	-35649-244				
0006	00007.000	EA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRES	OPL	-MS15795-803				
0007	00007.000	FA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	OPL	-MS35333-70				
0008	00000.000	EA		0996562-0001	CONNECTOR,PWB CARD-EDGE	081312-2HML400-11					
0008A					THIS IS AN ALTERNATE FOR						
0008B					ITEM 34.						
0009	00009.000	EA		0803153-0033	NUT SLEEVE-SHOULDERED BRASS						
0010	00002.000	EA		0972846-0001	HEADER PLASTIC W/M POST 150 GRID						
0010A					1A1J1A 1A1J1B						
0011	00002.000	EA		0972965-0028	CAP, FIXED .220 MF 10% 50V						
0011A					C1 C2						
0012	00001.000	EA		0972699-0008	HEADER,WIREWRAP PIN 7 POSTS .875 LG	022526-69542-107					
0012A					1A1J3A						
0013	00001.000	EA		0972699-0009	HEADER,WIREWRAP PIN 20 POSTS 2.500 LG	022526-69542-120					
0013A					1A1J2A						
0014	00003.000	EA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BACKPANEL ASSY,12IN, TPS CRU					
APPROV	DATE	APPROV PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0945015-0002	REV	AA

Backpanel Assembly

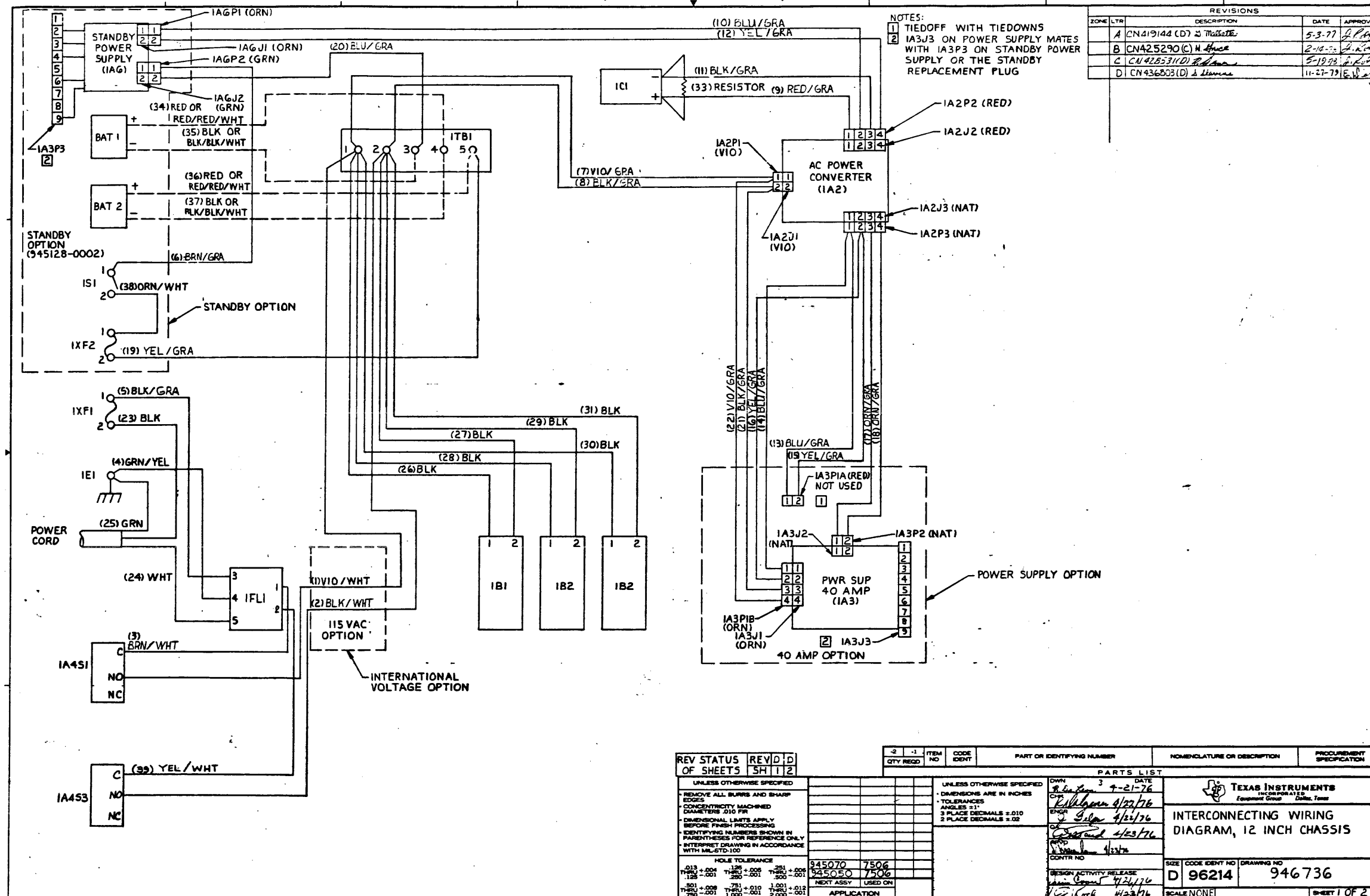
TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945015-0002		REV AA		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0014A					R5 R10 R15							
0015	00014.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25						
0015A					R1 R2 R8 R9 R11 R12 R16 R18							
0015B					R19 R22 R24 R26 R28 R30							
0016	00014.000	EA		0972946-0065	RES FIX 1.0K OHM 5 % .25 W CARBON FILM	ROH - R-25						
0016A					R3 R4 R6 R7 R13 R14 R17							
0016B					R20 R21 R23 R25 R27 R29 R31							
0017	00002.000	EA		0972699-0005	HEADER W/M PIN 24 POST							
0017A					1A1J28 1A1J38							
0018	REF	FA		0945014-9901	SPECIFICATION, BACKPANEL ELECTRICAL, 990							
0019	REF	FA		0944919-9901	SCHEMATIC, 990 BACK PANEL, 12 INCH							
0020	00001.000	FA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH - R-25						
0020A					R32							
0021	00001.000	EA		0996062-0093	STANDOFF, .138-32 X .500LG THD SWAGF	CAM -CP350130013040						
0025	AP	FT		0535978-0044	WIRE,HOOKUP 30 AWG SOLID,YELLO WIREWRAP	GEN - SPCX130K6						
0026	00004.000	FA		0975321-0003	JUMPER,990 INTERRUPT-4 INCH							
0027	00001.000	FA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	OPL - #53367-4-0						
0029	AP	FT		0411400-0020	WIRE #20 ELECTRO-TIN-PLATED,COPPER							
0030	AP	FT		0410499-0007	INSULATION SLEEVING,TEFLON #20 NATURAL	OPL -81349						
0031	00022.000	EA		0972742-0001	SOCKET, SINGLE LEAD, PWB MTG.							
DRAFTSMAN				DATE	DESIGN ENGINEER		DATE	TITLE				
								BACKPANEL ASSY,12IN, TPS CRU				
APPRO. MFG.				DATE	APPRO. PROJECT ENGINEER		DATE	RELEASED		DATE	PROJECT NO.	
											PART NUMBER LM0945015-0002	
											REV AA	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945015-0002		REV AA		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0031A					E1 THRU E22							
0032	00011.000	FA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0033	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	OPL -M39014/01-1397						
0033A					C3							
0034	00026.000	EA		0972676-0001	CONNECTOR-CARD EDGE,80 PIN,SOLDER POST							
0034A					A1P1 THRU A13P1							
0034B					A1P2 THRU A13P2							
DRAFTSMAN				DATE	DESIGN ENGINEER		DATE	TITLE				
								BACKPANEL ASSY,12IN, TPS CRU				
APPRO. MFG.				DATE	APPRO. PROJECT ENGINEER		DATE	RELEASED		DATE	PROJECT NO.	
											PART NUMBER LM0945015-0002	
											REV AA	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945015-0003		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945016-0001	PWB-BACKPANEL, 12IN, 990						
0002	00001.000	EA		0945017-0001	INSULATOR-BACKPANEL, 12IN, 990						
0003	00001.000	FA		0937525-0001	COMB/STIFFENER, 12 INCH						
0004	00007.000	EA		0972988-0014	SCREW 4-40 X .312 PAN HEAD CRCS						
0005	00007.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRCS STEEL	MS	-35649-244				
0006	00007.000	FA		0411027-0803	WASHER .125 X .250 X .022 FLAT CRCS	QPL	-MS15795-803				
0007	00007.000	EA		0411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRCS	QPL	-MS35333-70				
0008	00000.000	FA		0996562-0001	CONNECTOR, PWB CARD-EDGE	081312-24ML400-11					
0008A					THIS IS AN ALTERNATE FOR						
0008B					ITEM 34.						
0009	00009.000	FA		0803153-0033	NUT SLEEFVE-SHOULDERED BRASS						
0010	00002.000	EA		0972846-0001	HEADER PLASTIC W/M POST 150 GRID						
0010A					1A1J1A 1A1J1B						
0011	00002.000	EA		0972965-0028	CAP, FIXED .220 MF 10% 50V						
0011A					C1 C2						
0012	00001.000	FA		0972699-0008	HEADER, WIREWRAP PIN 7 POSTS .875 LG	022526-65542-107					
0012A					1A1J3A						
0013	00001.000	EA		0972699-0009	HEADER, WIREWRAP PIN 20 POSTS 2.500 LG	022526-65542-120					
0013A					1A1J2A						
0014	00003.000	EA		0972946-0055	PES FIX 390 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
DRAFTSMAN		DATE	CD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BACKPANEL ASSY, 12IN, 990, SPECIAL				
APPD-MFG		DATE	APPD-PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							LM0945015-0003				
							REV AA				

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945015-0003		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014A					R5 R10 R15						
0015	00014.000	EA		0972946-0053	PES FIX 390 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
0015A					R1 R2 R8 R9 R11 R12 R16 R18						
0015B					R19 R22 R24 R26 R28 R30						
0016	00014.000	EA		0972946-0065	PES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	-R-25				
0016A					R3 R4 R6 R7 R13 R14 R17 R20						
0016B					R21 R23 R25 R27 R29 R31						
0017	00002.000	FA		0972699-0005	HEADER W/M PIN 24 POST						
0017A					1A1J2B 1A1J3B						
0018	REF	EA		0945014-9901	SPECIFICATION, BACKPANEL ELECTRICAL, 990						
0019	REF	EA		0944919-9901	SCHEMATIC, 990 BACK PANEL, 12 INCH						
0020	00001.000	FA		0972946-0057	PES FIX 470 OHM 5 % .25 W CARBON FILM	ROH	-R-25				
0020A					R32						
0021	00001.000	EA		0996062-0033	STANDOFF, .138-32 X .500LG THD SWAGE	CAM	-CP350130013040				
0029	AR	ET		0411400-0020	WIRE #20 ELECTRO-TIN-PLATED, COPPER						
0030	AR	ET		0410499-0007	INSULATION SLEEVING, TEFLON #20 NATURAL	QPL	-81349				
0031	00022.000	EA		0972742-0001	SOCKET, SINGLE LEAD, PWB MFG.						
0031A					E1 THRU E22						
0032	00011.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0033	00001.000	FA		0972929-0997	CAP FIX CERAMIC .001 UF 10% 200V	QPL	-M39014/01-1397				
DRAFTSMAN		DATE	CD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BACKPANEL ASSY, 12IN, 990, SPECIAL				
APPD-MFG		DATE	APPD-PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							LM0945015-0003				
							REV AA				

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945015-0003		REV AA	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0033A					C3						
0034	00026.000	FA		0972676-0001	CONNECTOR-CARD EDGE, 80 PIN, SOLDER POST						
0034A					A1P1 THRU A13P1						
0034B					A1P2 THRU A13P2						
DRAFTSMAN		DATE	CD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BACKPANEL ASSY, 12IN, 990, SPECIAL				
APPD-MFG		DATE	APPD-PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							LM0945015-0003				
							REV AA				



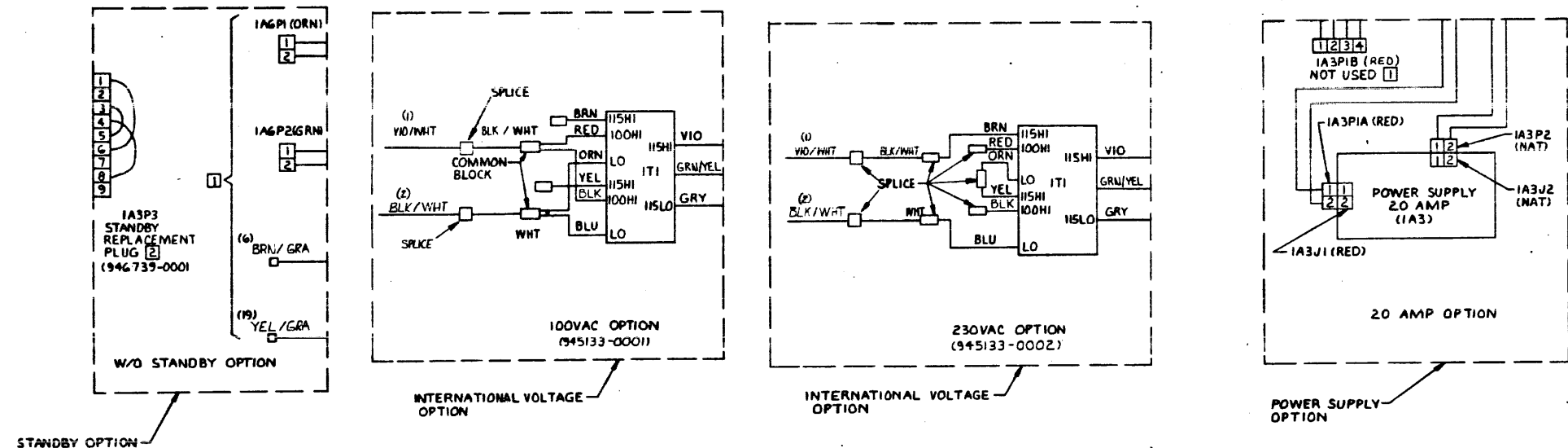
NOTES:
 1 TIEDOFF WITH TIEDOWNS
 2 IA3J3 ON POWER SUPPLY MATES WITH IA3P3 ON STANDBY POWER SUPPLY OR THE STANDBY REPLACEMENT PLUG

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A	CN419144 (D)	2.11.76	5-3-77	[Signature]
B	CN425290 (C)	H. Huse	2-18-78	[Signature]
C	CN425311 (D)	R. Huse	5-19-78	[Signature]
D	CN436503 (D)	A. Huse	11-27-79	[Signature]

REV	STATUS	REV'D	DATE	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
1		D	5/11/76						
2		D	9/22/76						
3		D	4/22/76						
4		D	4/22/76						
5		D	4/22/76						

UNLESS OTHERWISE SPECIFIED		DATE	
REMOVE ALL BURRS AND SHARP EDGES	945070	7506	9-21-76
DIMENSIONS ARE IN INCHES	945050	7506	4/22/76
ANGLES 90°			
3 PLACE DECIMALS ±.010			
2 PLACE DECIMALS ±.02			

SIZE	CODE IDENT NO	DRAWING NO
D	96214	946736

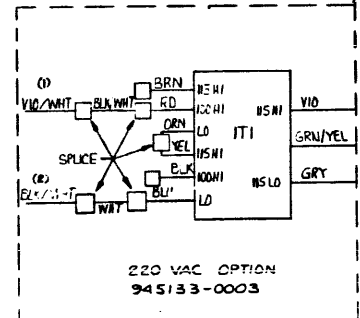


STANDBY OPTION

INTERNATIONAL VOLTAGE OPTION

INTERNATIONAL VOLTAGE OPTION

POWER SUPPLY OPTION



220 VAC OPTION
945133-0003

SIZE	CODE IDENT NO	DRAWING NO
D	96214	946736
SCALE NONE	REV	SHEET 2

A 946685					
APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
945050	7506	A	CN406708 (C) <i>7/2/76</i>	4/11/76	<i>[Signature]</i>
945070	7506	B	CN413966 (C) <i>7/2/76</i>	4/11/76	<i>[Signature]</i>
		C	CN407662 (C) <i>7/2/76</i>	4/3/76	<i>[Signature]</i>
		D	CN419146 (D) <i>3-1-77</i>	5-11-77	<i>[Signature]</i>
		E	CN447190 (C) <i>R. De Lee</i>	3-6-79	<i>[Signature]</i>
		F	CN447423 (C) <i>4-23-76</i>	6-23-76	<i>[Signature]</i>
<p>NOTES:</p> <p>1 INSTALL ITEM 59.</p> <p>2 INSTALL ITEM 80.</p> <p>3 INSTALL ITEM 78.</p> <p>4 WHEN BATTERIES ARE NOT INSTALLED, COVER WIRES 24 THRU 27 USING ITEM 78 ON 945050 AND ITEM 75 ON 945070.</p> <p>5 WHEN TRANSFORMER IS USED, COVER WIRES 1 AND 2 USING ITEM 74.</p> <p>6 INSTALL ITEM 58.</p> <p>7 ITEM 80 ON 945050 AND ITEM 77 ON 945070.</p> <p>8 WIRES 34, 35, 36, AND 37 ARE BATTERY LEADS AND ARE PART OF THE STANDBY KIT</p> <p>9 TERMINATE WIRE NUMBERS (6) AND (19) WITH ITEM (95) AND ITEM (27) WHEN STANDBY KIT ASSY IS NOT INSTALLED.</p> <p>10 WIRE NUMBER (38) IS INCLUDED IN STANDBY KIT ASSY.</p>					
REV					
SHEET					
REV STATUS OF SHEETS	REV SHEET	F	F	F	
		1	2	3	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	LWN L. HENRY 3 1/21/76				
ANGLES ± 1°	<i>[Signature]</i> 1/23/76				
3 PLACE DECIMAL ± 0.010	ENGR <i>[Signature]</i> 2/3/76				
2 PLACE DECIMAL ± 0.02	QA <i>[Signature]</i> 1/25/76				
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	WIRING LIST, 12" CHASSIS.				
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	CONTR NO				
	SIZE	CODE IDENT NO	DRAWING NO		
	A	96214	946685		
	SCALE	REV	SHEET		
	NONE	F	2		
			SHEET 1 OF 3		

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
1	NO 18 VIO/WHT				IA4S1-N0	ITB1-1		31
2	BLK/WHT				IA4S3-N0	ITB1-2		
3	BRN/WHT				IA4S1-C	IFL1-1		
4	YEL/GRN				IEI	IFL1-3		
5	BLK/GRA				IXF1-1	IFL1-4		
6	BRN/GRY				IS1-1	IA6P2-1	[9]	
7	VIO/GRY				ITB1-1	IA2P1-1		
8	BLK/GRY				ITB1-2	IA2P1-2		
9	RED/GRY				IC1-+	IA2P2-1		
10	BLU/GRY				IA6P1-1	IA2P2-2		
11	BLK/GRY				IC1 (-)	IA2P2-3		
12	YEL/GRY				IA6P1-2	IA2P2-4		
13	BLU/GRY				IA3P1A-1	IA2P3-1		
14	BLU/GRY				IA3P1B-1	IA2P3-1		
15	YEL/GRY				IA3P1A-2	IA2P3-2		
16	YEL/GRY				IA3P1B-2	IA2P3-2		
17	ORN/GRY				IA3P2-1	IA2P3-3		
18	GRN/GRY				IA3P2-2	IA2P3-4		
19	YEL/GRY				IXF2-2	ITB1-5	[9]	
20	NO 18 BLU/GRY				IA6P2-2	ITB1-3		31

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
21	NO 18 BLK/GRY				1A3P1B-3	1A2P1-2		31
22	NO 18 VIO/GRY				1A3P1B-4	1A2P1-1		31
23	PWR CORD BLK					1XF1-2	1	14
24	PWR CORD WHT					1FL1-5	1	14
25	PWR CORD GRN					1E1	3	14
26	BLOWER BLK				1B1-1	1TBI-1		62
27	BLOWER BLK				1B1-2	1TBI-2		62
28	BLOWER BLK				1B2-1	1TBI-1	1	62
29	BLOWER BLK				1B2-2	1TBI-2		62
30	BLOWER BLK				1B3-1	1TBI-1		62
31	BLOWER BLK				1B3-2	1TBI-2		62
32	LIGHTNING ARRESTOR				1TBI-1	1TBI-2	6	38
33	RESISTOR				1C1 (-)	1C1 (+)	2	80
34	RED OR RED/RED/WHT				BAT1 (+)	1TBI-4		
35	BLK OR BLK/BLK/WHT				BAT1 (-)	1TBI-3		
36	RED OR RED/RED/WHT				BAT2 (+)	1TBI-5	8	
37	BLK OR BLK/BLK/WHT				BAT2 (-)	1TBI-4		
38	NO 18 ORN/GR				1S1-2	1XF2-1	10	31
39	NO 18 YEL/WHT				1A4S3-C	1FL1-2		31

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946685
SCALE	REV	SHEET
	F	3

11-7916-B

REVISIONS			
LTN	DESCRIPTION	DATE	APPROVED
T	CN447632 (C) 17 L.M. (1) ITEM 23 ON WAS 972436-17 (2) UPDATED REV LEVEL BLOCK	1-10-80	E. Hing
U	CN447483 (C) 17 L.M. (1) DELETED ITEM 12 13 18 42 & 47 FROM 1 LM & ADDED TO -5001 LM	1-10-80	E. Hing
V	CN448672 (D) 17 L.M. (1) ADDED BALLON 44 & 47 TO STATION A (2) ADDED BALLON 4 TO STATION F (3) ITEM 4 & 47 QTY WAS 4 (4) ITEM 4 QTY WAS 13 (5) UPDATED REV LEVEL BLOCK	1-10-80	E. Hing

NOTES:
 1 FOR ITEMS 1, 22, 24, 26 AND 27 SEE TABLE I FOR COLOR CODE / REF DESIG CROSS REFERENCE
 2 FOR ITEMS 2, 23 & 25 SEE TABLE II FOR COLOR CODE / REF DESIG CROSS REFERENCE
 3. TIE AS REQD USING ITEM 10
 4. ~~SPLIT ITEM 9, WRAP AROUND WIRING AND SECURE ENDS USING ITEM 10~~
 5. MARK APPROPRIATE PART NUMBER AND REVISION LETTER PER PROCESS 1
 6. ITEM 10 IN -0001 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL.

TABLE I (I)

ITEM NO (REF)	ITEM COLOR	REF DES
24	ORN	1A6P1
26	GRN	1A6P2
1	NAT	1A3P2
22	RED	1A3P1A
27	VIO	1A2P1

TABLE II (2)

ITEM NO (REF)	ITEM COLOR	REF DES
23	RED	1A2P2
2	NAT	1A2P3
25	ORN	1A3P1B

REVISIONS			
ZONE LTR	DESCRIPTION	DATE	APPROVED
A	CN 406710 (A) D. Hall (1) L.M. REVISED PER EXTENSIVE ENGR CHANGE (2) REVISED NOTES 1+2 AND ADDED NOTES 4+5 (3) ADDED NEW SH 2 (4) ADDED REV LEVEL BLOCK	4-15-78	J. R. Poff
B	CN 407541 (C) A. D. Hall (1) REVISED L.M. AND PICTORIAL PER EXTENSIVE ENGR CHANGES (2) UPDATED AND ADDED W/318 GRN TO REV LEVEL BLOCK	5/21/78	E. Hing
C	CN 420302 (D) C. Sharp (1) DELETED NOTE 4 (2) DELETED ITEM 9 IN LM # F/D (3) DELETED DIM 2 50 (4) (2) (4) UPDATED REVISION LEVEL BLOCK	2-15-77	J. R. Poff
D	CN 420294 (D) S. D. Hall (1) ADDED ITEM 42 (2) QTY OF ITEM 5 WAS 2 (3) REVISED PICTORIAL (4) UPDATED REVISION LEVEL BLOCK	5-15-77	J. R. Poff
E	CN 424433 (C) C. Langlin (1) SH 2 MADE PICTORIAL CHANGES IN ZEN B-C-B.7 AND D-C.7 (2) LM DELETED ITEM 5 (3) LM ITEM 4 QTY WAS 23. (4) UPDATED REV LEVEL BLOCK	8-16-77	J. R. Poff
F	CN 427376 (C) D. Walthall (1) DELETED VIEW A & VIEW B (2) ADDED TABLE II TITLE (3) NOTE ONE WAS ITEMS 1, 22, 24, 26 AND 27 NOT SHOWN SEE VIEW A FOR MARKING (4) ... AND 25 NOT SHOWN. SEE VIEW B FOR MARKING (5) UPDATED REV LEVEL BLOCK	10-17-77	H. Hing
G	CN 427631 (C) E. Hing (1) ON LM ITEM 10 PU WAS 972632-0003 (2) UPDATED REV LEVEL BLOCK	1-2-78	J. R. Poff
H	CN 428271 (E) A. D. Hall (1) ON LM ITEM 12 PU WAS 538347-5899, 13 WAS 538347-5019, 14 WAS 538347-5599, 18 WAS 538347-5799, 42 WAS 538347-5999, ADDED ITEM 43, ITEM 10 QTY WAS 35, 14 WAS 4.5 & 39 WAS 4.0 (2) ON SH 2 (1581)-D WAS 42951-D, 41541-C WAS 4 (1951)-C, ADDED ITEM 43 TO HA: VIEW & ADDED 7" TO 3 CABLE (3) UPDATED REV LEVEL BLOCK	4-26-78	J. R. Poff
J	CN 441019 (E) C. Royce (1) ON LM ITEM 43 PIN WAS 41634-3800, ADDED ITEM 44, 45, 46 & 47 TO PICTORIAL (2) SH 2 ZEN D. 7 13 PL WAS 17 PL (3) UPDATED REVISION LEVEL BLOCK (4) ON LM ITEM 4 QTY WAS 17	9-8-78	J. R. Poff
K	CN 446275 (E) C. Royce (1) ON LM ITEM 12 PIN WAS 996888-3899, ITEM 13 PIN WAS 996888-3019, ITEM 18 PIN WAS 996888-3799, ITEM 42 PIN WAS 996888-3499 (2) UPDATED REV LEVEL BLOCK	9-8-78	J. R. Poff
L	CN 429889 (D) E. Hing (1) ON LM ITEM 10 WAS -0001 (2) UPDATED REV LEVEL BLOCK	12-4-78	E. Hing
M	CN 441016 (C) J. R. Poff	3-27-79	E. Hing
N	CN 448406 (C) J. R. Poff (1) ON SH 2 CHANGED (46) TO (47) 2 PL, (45) TO (44) 1 PL, ADDED ITEM (44) 1 PL (2) UPDATED REV LEVEL BLOCK	3-27-79	E. Hing
P	CN 443279 (C) J. R. Poff (1) CREATED -5001 LM (2) ADDED L/M ITEM (1) TO -0001 (3) ADDED PART NO. 2 (4) UPDATED REV LEVEL BLOCK	8-21-79	J. R. Poff
R	CN 445119 (C) J. R. Poff (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	8-21-79	J. R. Poff

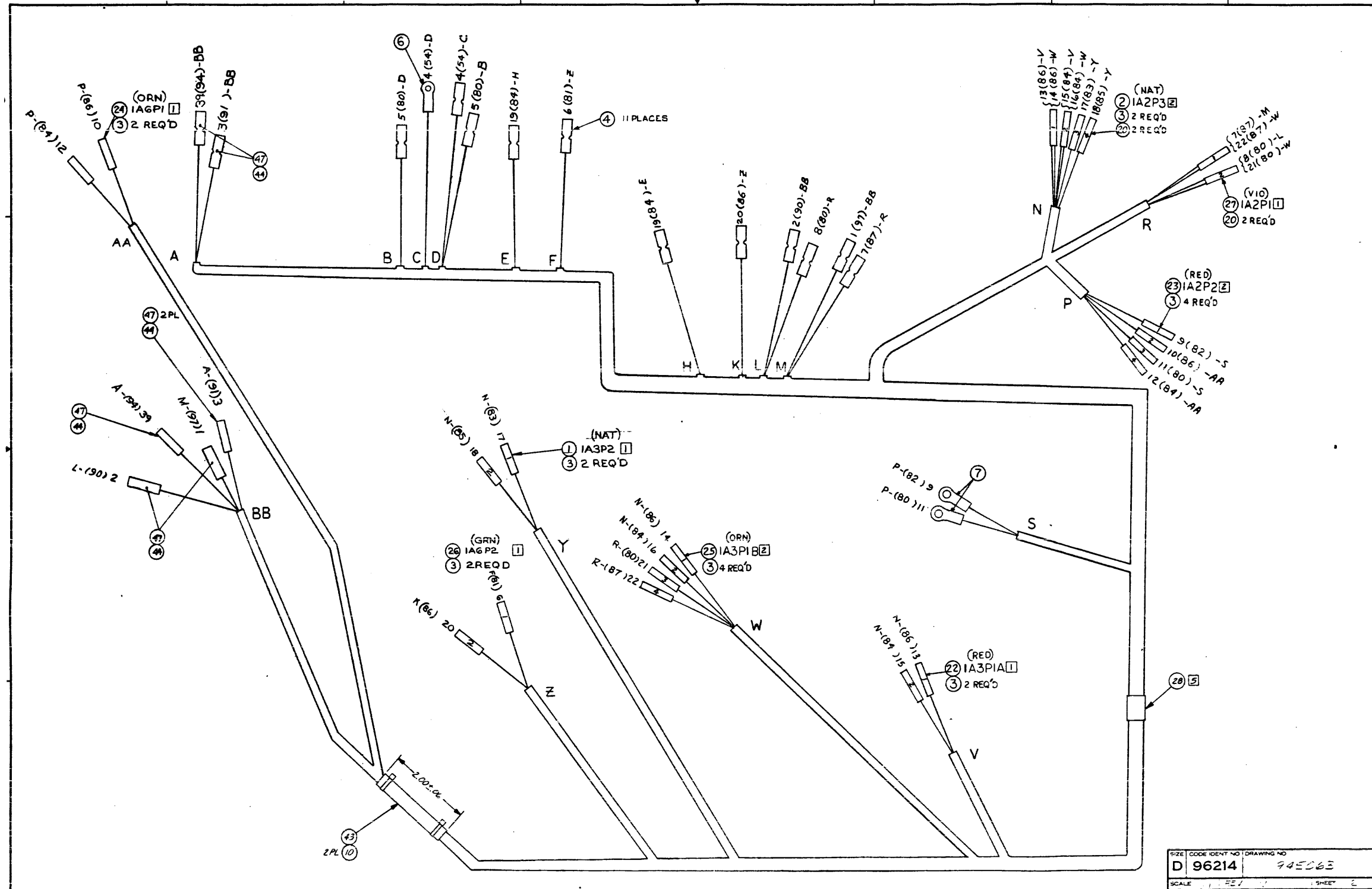
945063-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001
945063-2001	WIRING HARNESS, 12 IN CHASSIS
PART NUMBER	DESCRIPTION

PROCESSES:
 1. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6

REV LEVEL

N/DIAGRAM	946736	*	*	*	A	A	A	A	C	C	C	C	C	C	C	D
W/L	946683	*	B	B	C	D	D	D	E	F	G	H	H	H	H	H
ASSY	945663	A	B	C	D	E	F	G	H	J	K	L	N	P	R	U


REV STATUS OF SHEETS	REV V V	SH 1 2	2 1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PRELIMINARY SPECIFICATION
UNLESS OTHERWISE SPECIFIED			UNLESS OTHERWISE SPECIFIED					
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS 010 P4 DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1 3 PLACE DECIMALS = 0.0 2 PLACE DECIMALS = 0.2					
HOLE TOLERANCE			PARTS LIST					
013 - .004 125 - .001 126 - .001 501 - .008 751 - .010 752 - .001			251 - .006 300 - .001 301 - .001 201 - .010 202 - .001					
945063 7506 NEXT ASSY USED ON APPLICATION			DWN J. R. Poff 2-2-78 E. Hing 2/3/76 J. R. Poff 3/28/76 J. R. Poff 3/28/76 J. R. Poff 3/28/76 J. R. Poff 3/28/76 J. R. Poff 3/28/76 J. R. Poff 3/28/76					
TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas Texas			WIRING HARNESS, 12 IN CHASSIS					
SCALE 1/1			DRAWING NO 945063 SHEET 1 OF 2					



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945063-0001		REV V	
DATE 11/14/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ31	0001.000	EA		0972574-0005	CONNECTOR HOUSING				
JJ31A					1A3P2				
JJ02	0001.000	EA		0972574-0007	HOUSING,CONN,PLUG,LOCKING 4 CONTACTS	AMP	--1-480702-0		
JJ02A					1A2P3				
JJ21	REF	EA		0946683-9901	WIRE LIST,WIRING HARNESS,12IN,20AMP PS				
JJ22	0001.000	EA		0972574-0019	HOUSING,CONN,PLUG LOCKING 2 CONTACTS	AMP	- 1-698-2		
JJ22A					1A3P1A				
JJ23	0001.000	EA		0972574-0021	HOUSING,CONN,PLUG LOCKING 4 CONTACTS	AMP	- 1-702-2		
JJ23A					1A2P2				
JJ24	0001.000	EA		0972574-0026	HOUSING,CONN,PLUG LOCKING 2 CONTACTS	AMP	- 1-698-3		
JJ24A					1A6P1				
JJ25	0001.000	EA		0972574-0028	HOUSING,CONN,PLUG LOCKING 4 CONTACTS	AMP	- 1-700-3		
JJ25A					1A3P1B				
JJ26	0001.000	EA		0972574-0040	HOUSING,CONN,PLUG LOCKING 2 CONTACTS	AMP	- 1-698-5		
JJ26A					1A6P2				
JJ27	0001.000	EA		0972574-0054	HOUSING,CONN,PLUG LOCKING 2 CONTACTS	AMP	- 1-698-7		
JJ27A					1A2P1				
JJ44	00006.000	EA		0996931-0001	RCPT,QUICK CONNECT TAB,INSULATED	000779-1-480416-0			
JJ31	0001.000	EA		0945063-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001				
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
			J.R. 11-16-79				WIRING HARNESS, 12IN CHASSIS		
APPR -MGR		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
							7506	LM 0945063-0001	V

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0945063-5001		REV V	
DATE 11/14/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ03	00018.000	EA		0972577-0001	CONTACT,SOCKET-DUAL LANCE (REEL)	AMP	- 350537-1		
JJ04	00011.000	EA		0972171-0048	TERMINAL,RCPT-#22-18AWG .032TABS PUSH/ON	AMP	-42599-4 STRIP		
JJ06	00001.000	EA		2210066-0007	LUG,RING TONGUE,TAPE MTD,#6,22-16,RED	000779-1-31885-2			
JJ07	00002.000	EA		2210066-0015	LUG,RING TONGUE, TAPE MTD, #10,RED,22-16	000779-2-31891-2			
JJ10	00037.000	EA		0972632-0015	STRAP, TIE DOWN, CABLE, 3 7/8	006383-PLTIM-DPT			
JJ11	00007.500	FT		0935172-5088	WIRE,UL 1430/3317,18AWG,GRA/BLK	-			
JJ12	00004.500	FT		0935177-3099	WIRE,UL 1509,DBL INSULATED,18AWG,MHT/BLK	-			
JJ13	00006.500	FT		0935177-3199	WIRE,UL 1509,DBL INSULATED,18AWG,MHT/BRN	-			
JJ14	00004.000	FT		0935172-5108	WIRE,UL 1430/3317,18AWG,GRA/BRN	-			
JJ15	00005.000	FT		0935172-5788	WIRE,UL 1430/3317,18AWG,GRA/VID	-			
JJ16	00001.000	FT		0996286-5455	WIRE,#18 8-18 19 STRANDS GRN/YEL	-			
JJ17	00012.000	FT		0935172-5488	WIRE,UL 1430/3317,18AWG,GRA/YEL	-			
JJ18	00004.500	FT		0935177-3799	WIRE,UL 1509,DBL INSULATED,18AWG,MHT/VID	-			
JJ19	00002.000	FT		0935172-5288	WIRE,UL 1430/3317,18AWG,GKA/RED	-			
JJ20	00004.000	EA		0972577-0007	CONTACT,SOCKET-DUAL LANCE (LOOSE)	018342-350537-1			
JJ28	00001.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98			
JJ38	00004.000	FT		0935172-5388	WIRE,UL 1430/3317,18AWG,GRA/DRN	-			
JJ39	00004.000	FT		0935172-5588	WIRE,UL 1430/3317,18AWG,GRA/GRN	-			
JJ40	00014.000	FT		0935172-5688	WIRE,UL 1430/3317,18AWG,GRA/BLU	-			
JJ42	00006.500	FT		0935177-3499	WIRE,UL 1509,DBL INSULATED,18AWG,MHT/YEL	-			
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
							BULK CABLE ASSEMBLY MATERIAL FOR -0001		
APPR -MGR		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 0945063-5001	V

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0945063-5001		REV V	
DATE 11/14/79									
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ43	00000.200	FT		0972436-0019	INSULATION SLEEVING PVC CHLORIDE	LFS	- HT-105C-24		
JJ47	00006.000	EA		0996673-0003	TERMINAL,#22-18 TAB S&L .032 X .250 Q-CON	000779-42510-2			
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE		
							BULK CABLE ASSEMBLY MATERIAL FOR -0001		
APPR -MGR		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV
								LM 0945063-5001	V

A 946683					
APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
945063	7506	A	CN406712(C) Baker	4/6/76	W. Baker
		B	CN413994 (C) & (1) DELETED SHEET 4.	5-13-76	A. R. ...
		C	CN420295 (D) R. Baker (1) ADDED SHEET 4	5-10-77	A. R. ...
		D	CN424434 (C) H. Spring	5-10-77	H. Spring
		E	CN441022(E) P. ...	6-30-78	P. ...
		F	CN448405 (C) A. Finson	2-28-79	A. Finson
		G	CN447191 (C) A. Finson	2-28-79	A. Finson
		H	CN447424 (C) W. DeWilde	5-29-79	W. DeWilde
		J	CN448671 (D) J. ...	1-23-76	J. ...
REV					
SHEET					
REV STATUS OF SHEETS	REV	J	F	J	B
	SHEET	1	2	3	4
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMAL ±.010 2 PLACE DECIMAL ±.02	DATE	1-16-76			
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	DATE	23 JAN 76			
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	DATE	1/23/76			
CONTR NO		SIZE	CODE IDENT NO	DRAWING NO	
		A	96214	946683	
DESIGN ACTIVITY RELEASE		SCALE	SHEET		
1-23-76		NONE	1 OF 4		
 TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas					
WIRING LIST, WIRING HARNESS, 12" CHASSIS					

NOTES:

- 1 TERMINATE START END W/ ITEM 3
- 2 TERMINATE FINISH END W/ ITEM 3
- 3 TERMINATE START END W/ ITEM 4
- 4 TERMINATE FINISH END W/ ITEM 4
- ~~5 TERMINATE START END W/ ITEM 5~~
- ~~6 TERMINATE FINISH END W/ ITEM 5~~
- 7 TERMINATE FINISH END W/ ITEM 6
- 8 TERMINATE FINISH END W/ ITEM 7
- 9 * DO NOT CRIMP UNTIL ALL WIRES ARE ADDED
- 10 TERMINATE START END W/ ITEM 20
- 11 TERMINATE FINISH END W/ ITEM 20
- 12 TERMINATE FINISH STATION W/ ITEM 47 AND 44
- ~~13 INSTALL ITEM 44 ON FINISH END~~
- ~~14 INSTALL ITEM 45 ON FINISH END~~
- 15 TERMINATE START END W/ ITEM 47 AND 44

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946683
SCALE	REV F	SHEET 2

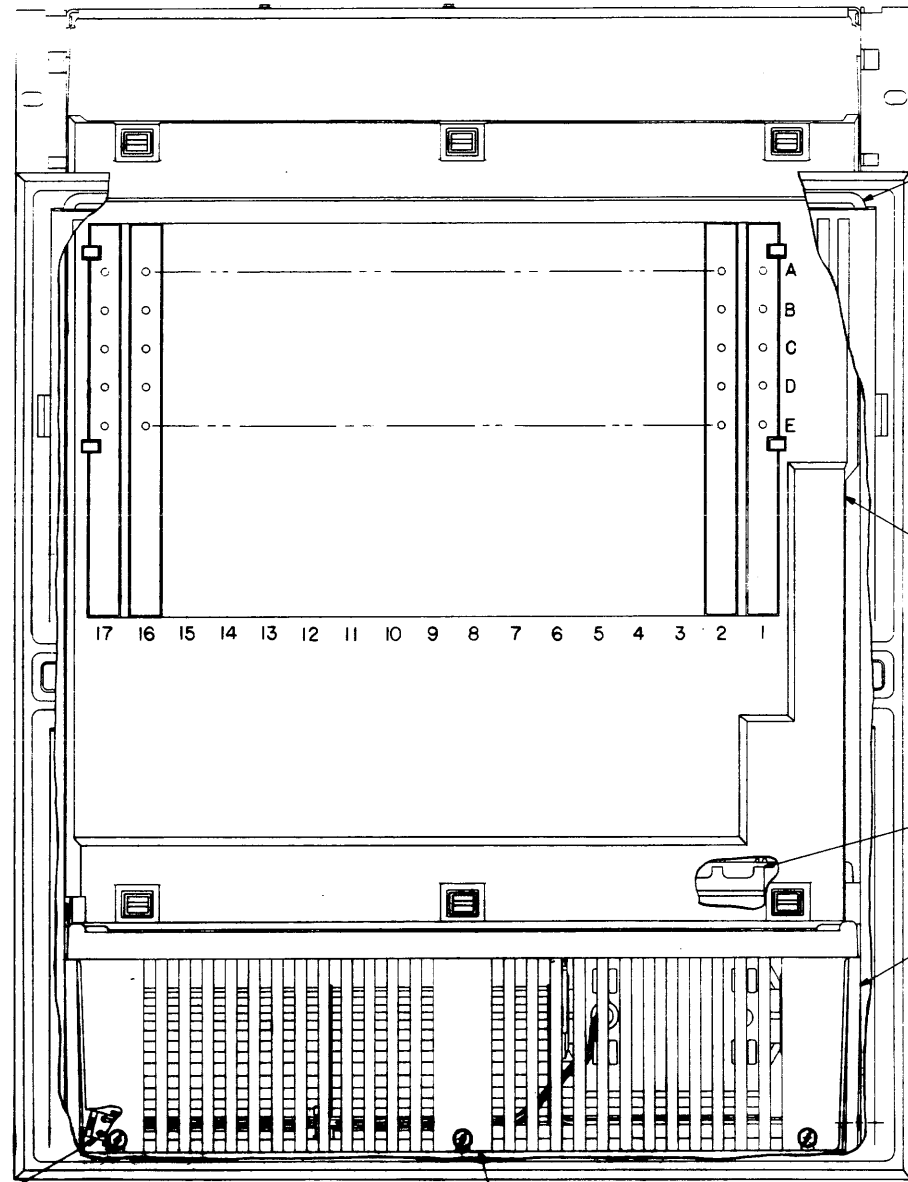
WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA P/L ITEM NO.
1	NO 18	50	BB	M	IA431-C	ITB1-1	[15] [4]	18
2	BLK/WHT	51.5	BB	L	IA453-C	ITB1-2	[15] [4]	12
3	BRN/WHT	65.5	A	BB	IFL1-1	IA451-NO	[15] [12]	13
4	YEL/GRN	9	D	C	IFL1-4	IE1	[3] [7]	16
5	BLK/GRA	7.5	B	D	IXE1-1	IFL1-3	[4]	11
6	BRN/GRA	49	F	Z	IS1-1	IA6P2-1	[3] [2]	14
7	VIO/GRA	15	R	M	IA2PI-1*	ITB1-1	[10] [4] [9]	15
8	BLK/GRA	15	R	L	IA2PI-2*	ITB1-2	[10] [4] [9]	11
9	RED/GRA	23.5	P	S	IA2P2-1	IC1(+)	[1] [8]	19
10	BLU/GRA	61	P	AA	-2	IA6PI-1	[2]	40
11	BLK/GRA	23.5	P	S	-3	IC1(-)	[8]	11
12	YEL/GRA	61	P	AA	IA2P2-4	IA6PI-2	[1] [2]	17
13	BLU/GRA	33.5	N	V	IA2P3-1*	IA3PIA-1	[10] [9]	40
14	BLU/GRA	39.5	N	W	-1	IA3PIB-1	[10]	40
15	YEL/GRA	33.5	N	V	-2*	IA3PIA-2	[10] [9]	17
16	YEL/GRA	39.5	N	W	-2	IA3PIB-2	[10]	17
17	ORN/GRA	46.5	V	Y	-3	IA3P2-1	[1] [2]	38
18	GRN/GRA	46.5	N	Y	IA2P3-4	IA3P2-2	[1] [2]	39
19	YEL/GRA	13	E	H	IXF2-2	ITB1-5	[3] [4]	17
20	BLU/GRA	4.2	Z	K	IA6P2-2	ITB1-3	[1] [4]	40
21	BLK/GRN	41	W	R	IA3PIB-3	IA2PI-2	[11]	11
22	VIO/GRA	41	W	R	IA3PIB-4	IA2PI-1	[1] [11]	15

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946683
SCALE	REV	SHEET
	J	3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA P/L ITEM NO.
39	NO 18 YEL/WHT	67	A	BB	IFL1-2	IA453-NO	[15] [12]	42

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	946683
SCALE	REV	SHEET
	J	4

NOTES: UNLESS OTHERWISE SPECIFIED
 1. SLIDE PWB RETAINER ON LOWER CABLE TRAY TO THE RIGHT BEFORE INSTALLING ITEM 3 (FRONT ACCESS COVER)



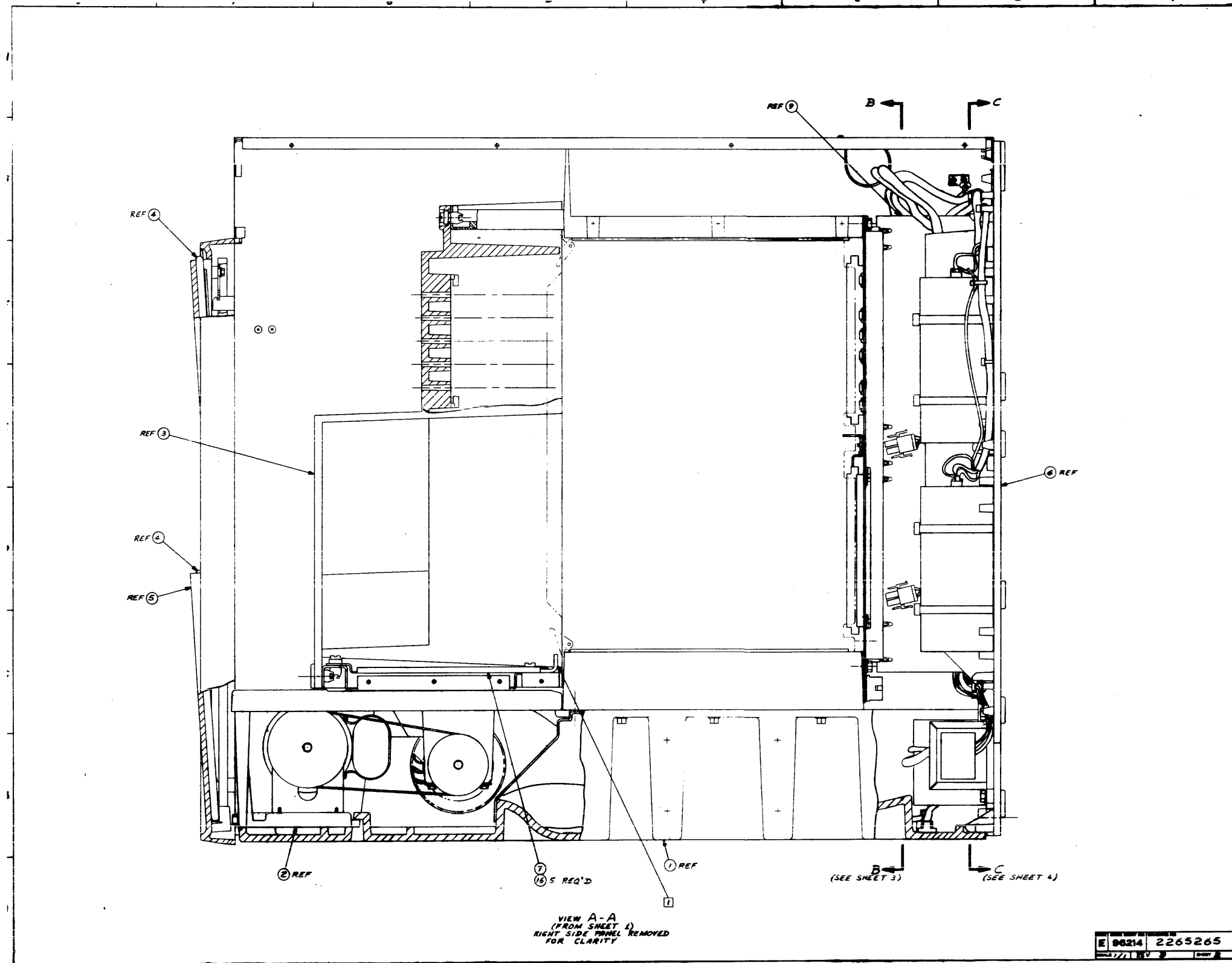
P1 FROM FAN MOTOR CONNECTS INTO P1 OF MOTOR HARNESS

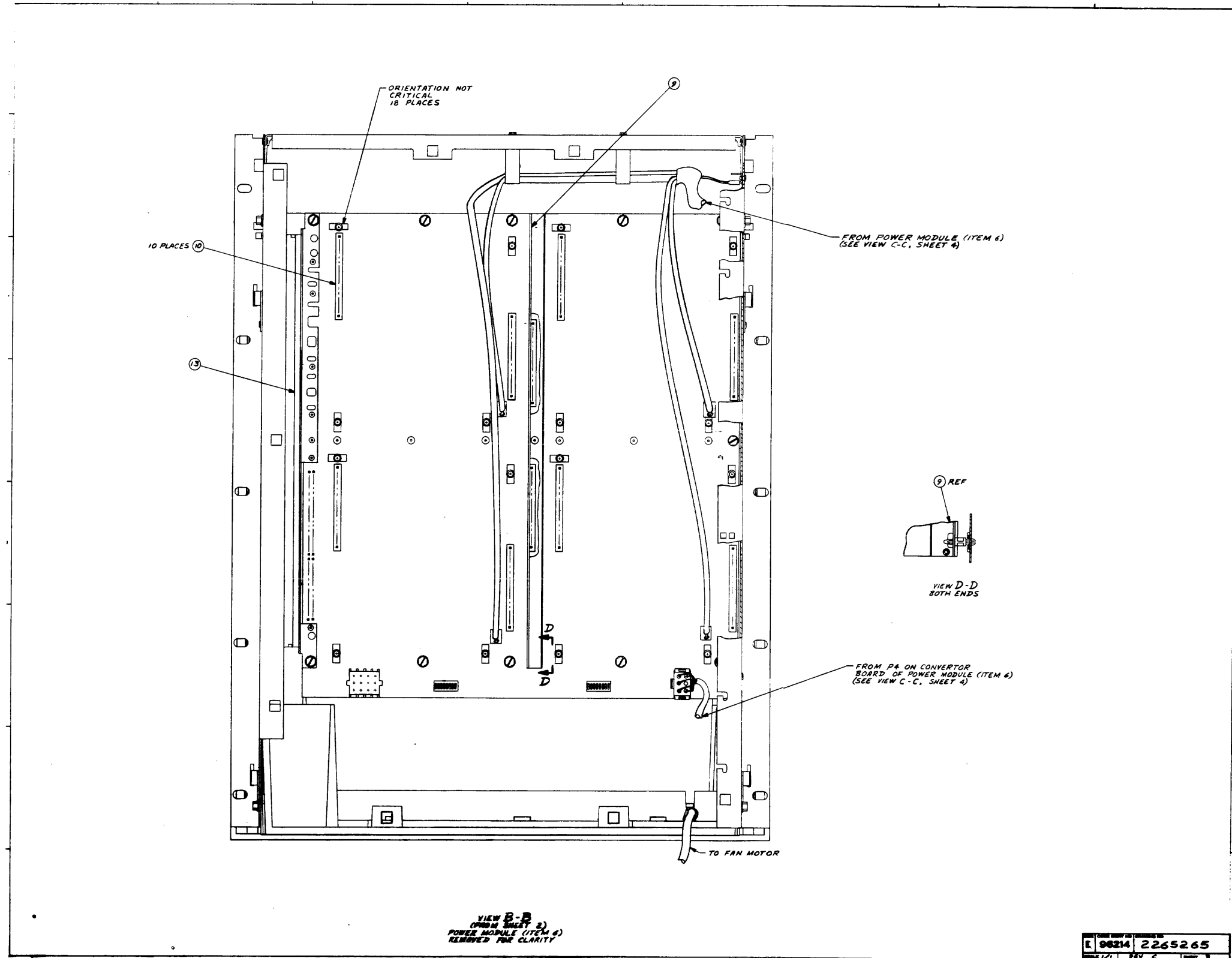
REVISION STATUS REV DD/CIC
 OF SHEETS SHEET 1/2/3/4

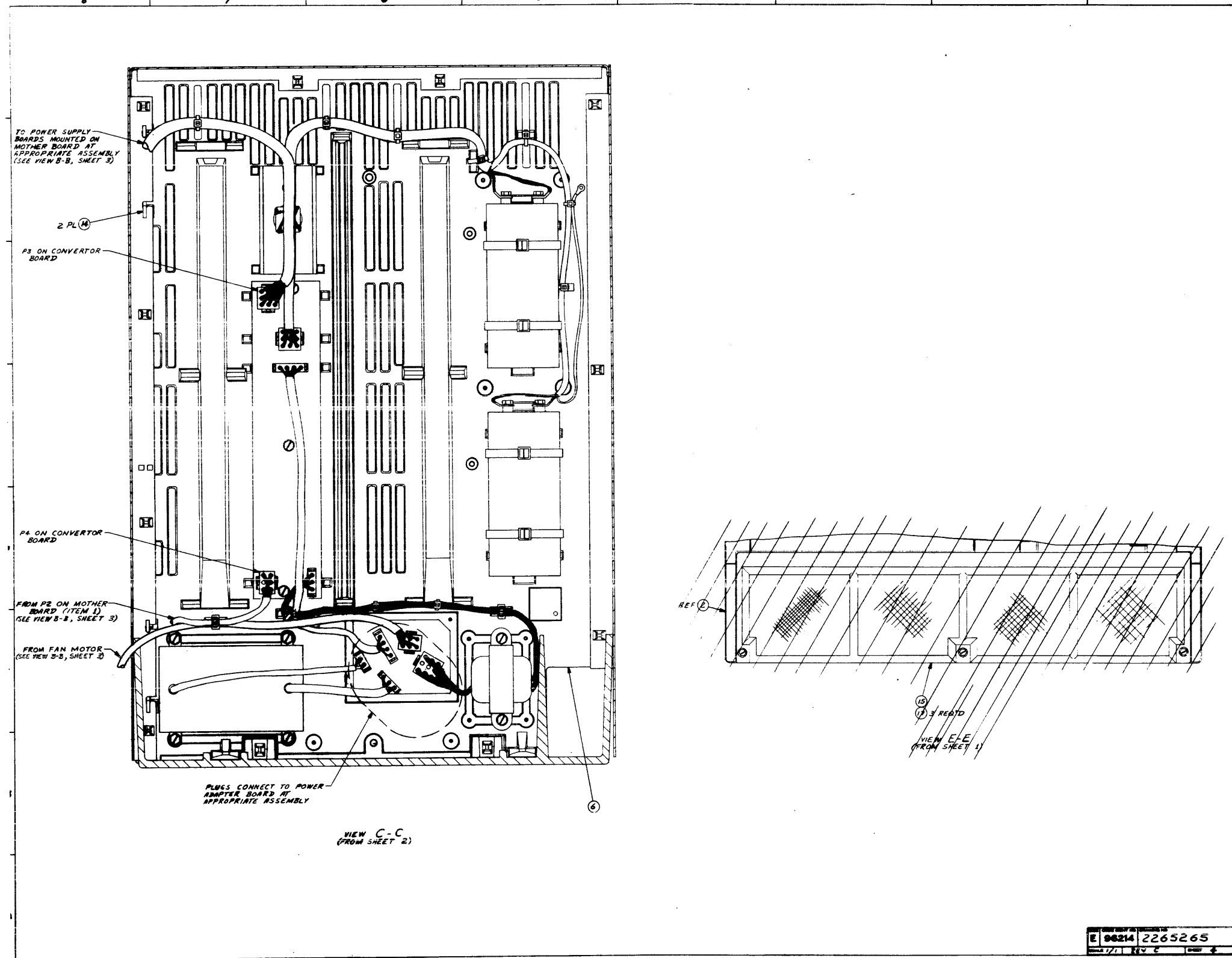
A	CHASSIS (C) R. P. 11 ON LM DELETE IT. 11, WAS 2210399-0016 AND DELETE IT. 12, WAS 2210399-0020 (2) ON SH 2 & 3, DELETE IT. 11 & 12 FROM PICTORIAL (3) ON SH 2, DESIGNATION FOR VIEW B-B WAS VIEW C-C AND DESIGNATION FOR VIEW C-C WAS VIEW B-B (4) ON LM, DELETE IT. 15, WAS 226294-0001 AND DELETE IT. 17, WAS 996740-0014 (5) SH 1, DELETE DESIGNATION FOR VIEW E-E FROM SH C-E-7 (6) SH 4, DELETE VIEW E-E (7) ON LM, CHANGE IT. 16 QTY FROM 11 TO 22 (8) SH 2-5, ADD BALLOON FOR IT. (9) 11 REQ'D TO BALLOON OF IT. 6	8-14-79	B. Miller
B	CHASSIS (C) R. P. 11 ON LM DELETE IT. 16, QTY WAS 22 (2) SH 4, BN 2-5 FROM BALLOON OF IT. 6, REMOVE BALLOON OF IT. 16, 11 REQ'D	9-14-79	B. Miller
C	CHASSIS (C) R. P. 11 ON LM, BN BE, ADD A BASE INSERT TO VIEW THAT IS AN ITEM ADDED IN THE 226294 CHASSET (SUBSTIT) (2) SH 3, BN 2-4, RE-ROUTE CABLE FROM FAN MOTOR (3) IN A CONE'S C-7, 8, RE-ROUTE CABLE FROM FAN MOTOR TO SHOW THE CABLE TIED TO BOSS THAT CABLE FROM 22 ON MOTHER BOARD IS TIED TO (4) SH 4, BN 2, THE FIELD HATE WAS FROM PL ON MOTHER BOARD (ITEM) (SEE VIEW C-C, SHEET 3)	1-30-80	B. Miller
D	CHASSIS (C) R. P. 11 ON LM, DELETE IT. 18 WAS 226294-0001 WINDOW, FRONT ACCESS COVER	1-30-80	B. Miller

A (SEE SHEET 2)

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR FABRICATION	3-14-79	DD	CIC
2	REVISIONS			
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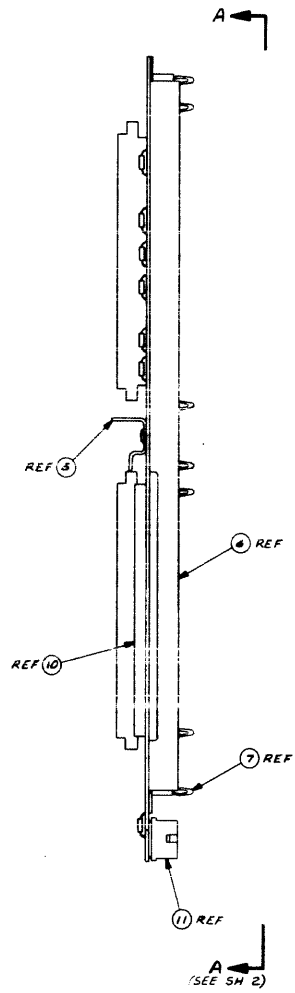
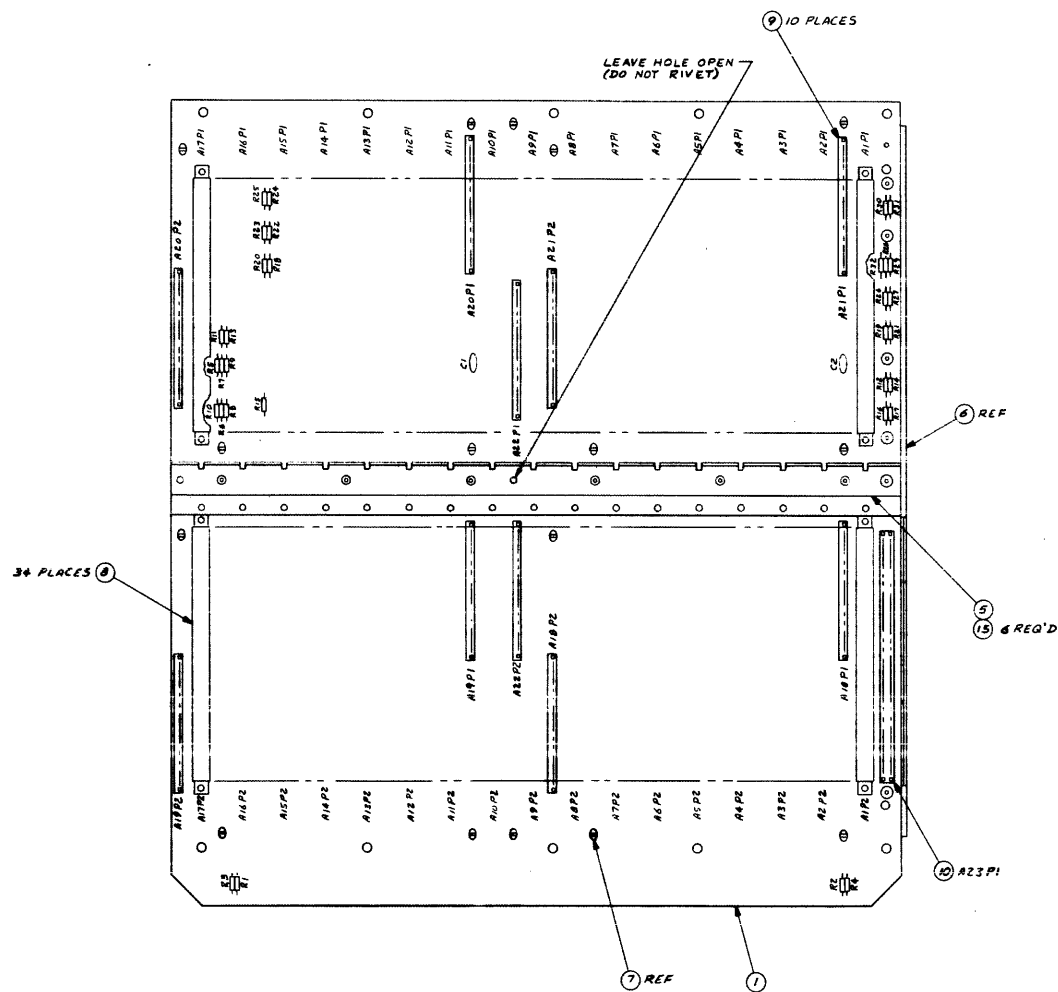




PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	0001.000	EA		2265266-0001	SLDASSEMBLY, CHASSIS	
0002	0001.000	EA		2265268-0001	FAN CHASSIS ASSEMBLY	
0003	0001.000	EA		2265285-0001	COVER, ACCESS, 17 SLCT	
0004	0004.000	EA		2265283-0001	FILTER, AIR	
0005	0001.000	EA		2265271-0001	FILTER PANEL ASSEMBLY	
0006	0001.000	EA		2265267-0001	ASSEMBLY, POWER MODULE	
0007	0001.000	EA		2265389-0001	CABLE TRAY, UPPER, 17 SLCT	
0008	0003.000	EA		0996740-0024	SEMS SCREW, T&C FORMING 3/4L, SLTD MXHD	
0009	0001.000	EA		2265315-0001	CONTROL BOARD, 17 SLCT CHASSIS	
0010	0010.000	EA		2265277-0001	CONNECTOR, 12 POS., MALE-MALE HDR, MCC	
0013	0001.000	EA		2265387-0001	BAFFLE, 17 SLOT CHASSIS	
0014	0002.000	EA		2265414-0001	HINGE, COVER, REAR	
0016	0011.000	EA		2210405-0005	LATCH, 1/4-TURN, BLACK	083014-HRN 6-3-1

EMPLOYEE	DATE	CDR OR ASSISTANT	DATE	DESIGN ENGINEER	DATE	TITLE
<i>[Signature]</i>	1/20/80	<i>[Signature]</i>	1-30-80			CHASSIS, BASIC, 17 SLOT
DATE	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
					7057	
					PART NUMBER	REV
					LM 2265265-0001	D

NOTES: UNLESS OTHERWISE SPECIFIED
 [] ITEM 14 (SWITCHES S1 AND S2) SHALL BE INSTALLED
 ON ASSEMBLY AFTER THE BOARD HAS BEEN TESTED



REV	DESCRIPTION	DATE	BY
A	CHANGING TO P.A.C. 8) ONE REF DESIGNATION R1 AND R2 AND R3 WERE R1 (2) UPDATED REVISION LEVEL BLOCK	2-27-79	J. Kelly
B	CHANGING TO P.A.C. 1) NEW 8 PLACES 1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19) 20) 21) 22) 23) 24) 25) 26) 27) 28) 29) 30) 31) 32) 33) 34) 35) 36) 37) 38) 39) 40) 41) 42) 43) 44) 45) 46) 47) 48) 49) 50) 51) 52) 53) 54) 55) 56) 57) 58) 59) 60) 61) 62) 63) 64) 65) 66) 67) 68) 69) 70) 71) 72) 73) 74) 75) 76) 77) 78) 79) 80) 81) 82) 83) 84) 85) 86) 87) 88) 89) 90) 91) 92) 93) 94) 95) 96) 97) 98) 99) 100)	2-27-79	J. Kelly
C	CHANGING TO P.A.C. SH 1: 0.2000 CS 4.00, ADDER .45 X .65" CHAMFER TO LOWER CORNERS (2) BONES 4-7, 8-9, ADDER NOTE 1 (2) BONE 2-4, CHG CALLOUT OF IT IS BALLOON FROM 7 TO 6 (2) BONE 2-6, FIFTH HOLE FROM LEFT; DELETED RIVET AND IN BONE 6-5, ADDER FIELD NOTE "LEAVE HOLE OPEN, (DO NOT RIVET) TO SAME HOLE (UPDATED REVISION LEVEL BLOCK		
D	CHANGING TO P.A.C. SH 2: BONES C-4, 5, 6, 7; ADDER .45 X .65" CHAMFER TO LOWER CORNERS (2) BONES C-2, C-3, C-4; ADDER INDICATION OF POSITION 1 / FLAG NOTE 11 TO S1 & S2 AND FLAG NOTE 12 TO ITEM 14 BALLOON (3) BONE 8-6, ADDER (NOTE: MASK THIS SIDE) (4) BONE 6-5, FIFTH HOLE FROM RIGHT; DELETED RIVET AND IN BONE 6-5; ADDER FIELD NOTE "LEAVE HOLE OPEN, (DO NOT RIVET)" L/M: 1 (1) CHG IT: 15 QTY FROM 14 TO 13 (2) CHG IT: 7 FROM 996494-0004 TO 996494-0015		
E	CHANGING TO P.A.C. CHG L/M IT: 7 HAS 996494-0015 UPDATED REV LEVEL BLOCK	2-27-79	J. Kelly

REV LEVEL	TEST PROC	2265295-0001	Q	D	C	D
1	LOGIC	2265295-0001	Q <td>D <td>C <td>D</td> </td></td>	D <td>C <td>D</td> </td>	C <td>D</td>	D
2	PWB	2265296-0001	Q <td>D <td>C <td>D</td> </td></td>	D <td>C <td>D</td> </td>	C <td>D</td>	D
3	ASSEMBLY	2265295-0001	Q <td>D <td>C <td>D</td> </td></td>	D <td>C <td>D</td> </td>	C <td>D</td>	D

COMPONENT SIDE

REV	REV	DIC
1	1	1

REVISION STATUS OF SHEETS

MARK	100-02	21	MGT. OF CLR BLACK
SLDR	127-01	00	
SLDR	124-02	00	
PROCESS CLASSIFICATION			

REV	REV	DIC
1	1	1

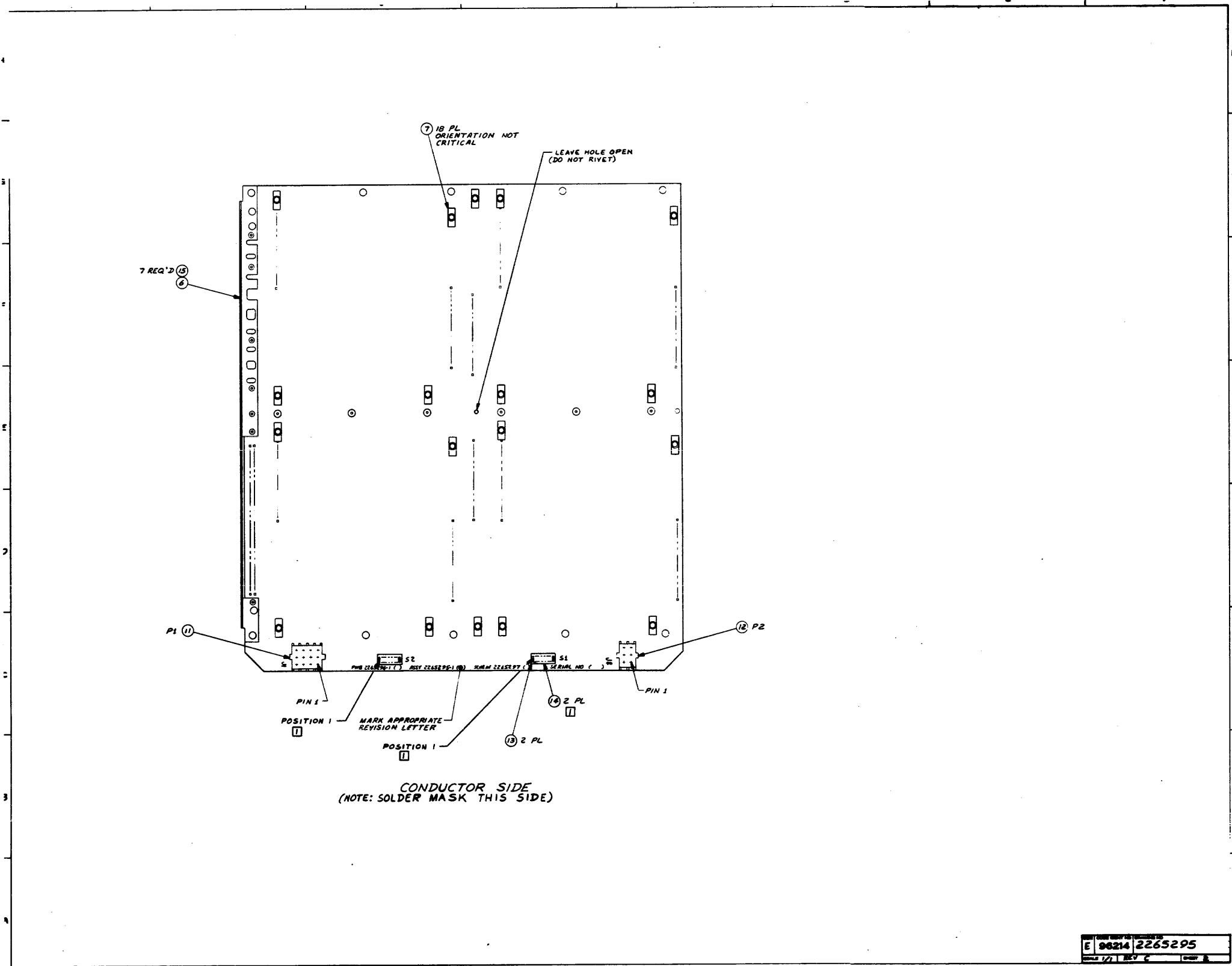
REV	REV	DIC
1	1	1

REV	REV	DIC
1	1	1

326544 7067

196214 2265295

APPLICATION



Backpanel Assembly

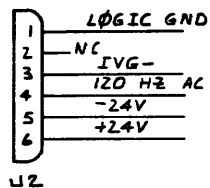
TEXAS INSTRUMENTS INCORPORATED		DATE 02/18/80		LIST OF MATERIAL		PAGE 1 of 2		PART NUMBER LM 2265295-0001	REV D
ITEM NUMBER	QUANTITY AND ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		2265296-0001	PWB, BACKPANEL, 17 SLOT				
0002	REF	EA		2265297-9901	LOGIC, BACKPANEL, 17 SLOT				
0003	REF	EA		2265298-9901	TEST PROCEDURE, BACKPANEL, 17 SLOT				
0004	REF	EA		2265299-9901	SPECIFICATION, BACKPANEL, 17 SLOT				
0005	00001.000	EA		2265273-0001	STIFFENER, COMB, BACKPANEL, 17 SLOT				
0006	00001.000	EA		2265293-0001	STIFFENER, REAR, BACKPANEL				
0007	00018.000	EA		0996351-0011	SPACER, PLASTIC	SEE TI- DRAWING			
0008	00034.000	EA		0996562-0001	CONNECTOR, PWB CARD-EDGE	081312-2HML40D-11			
0008A					A1P1 THRU A17P1, A1P2 THRU				
0008B					A17P2				
0009	00010.000	EA		2265276-0001	CONN, RCPT BD NT, 250CTR, TYPE A, STD PRESS				
0009A					A18P1 THRU A22P1, A18P2				
0009B					THRU A22P2				
0010	00001.000	EA		2265275-0001	CONNECTOR, 70 POSITION, MOD IV				
0010A					A23P1				
0011	00001.000	EA		0996287-0007	HEADER, PIN, SHORT SOLDER TAIL, 12 CIRCUITS	000779-350713-1			
0011A					J1				
0012	00001.000	EA		0996287-0005	HEADER, PIN, SHORT SOLDER TAIL, 6 CKTS	000779-350711-1			
0012A					J2				
0013	00002.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-DILB16P-10w			
DATE 2/19/80		DATE 2-25-80		BACKPANEL, 17 SLOT CHASSIS					
DATE PROJECT ENGINEER		DATE RELEASED		PROJECT NO. 7057		PART NUMBER LM 2265295-0001		REV D	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/18/80		LIST OF MATERIAL		PAGE 2 of 2		PART NUMBER LM 2265295-0001	REV D
ITEM NUMBER	QUANTITY AND ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0013A					X51, X52				
0014	00002.000	EA		0972594-0005	SWITCH, ROCKER-PWB MOUNTED	023880-900128			
0014A					S1, S2				
0015	00013.000	EA		0972831-0003	RIVET, 1/8X-.235, TUBULAR, STEEL, BLIND	019738-1821-0408			
0016	00003.000	EA		0972946-0055	RES FIX 390 OHM 5 % .25 M CARBON FILM	RDH - R-25			
0016A					R5, R10, R15				
0017	00014.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 M CARBON FILM	RDH - R-25			
0017A					R1, R2, R8, R9, R11, R12, R16, R19				
0017B					R20, R23, R25, R26, R28, R30				
0018	00014.000	EA		0972946-0065	RES FIX 1.0K OHM 5 % .25 M CARBON FILM	RDH - R-25			
0018A					R3, R4, R6, R7, R13, R14, R17, R18				
0018B					R21, R22, R24, R27, R29, R31				
0019	00001.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 M CARBON FILM	RDH - R-25			
0019A					R32				
0020	00002.000	EA		0532736-0002	CAP FIX CERAMIC .02 MF 20%/80% 25 VOLT	CRL - 200U6UE2032AL			
0020A					C1, C2				
DATE		DATE		DATE		DATE			
DRAFTSMAN		CED DRAFTSMAN		DESIGN ENGINEER		TITLE			
DATE		DATE		DATE		DATE			
APPROVER		APPROVER		RELEASED		PROJECT NO.			
						PART NUMBER LM 2265295-0001		REV D	

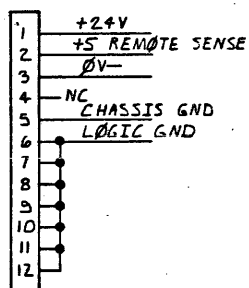
NOTES: UNLESS OTHERWISE SPECIFIED:
 1. ALL RESISTORS ARE 300 OHMS
 2. SIGNAL NAMES IN PARENTHESES ARE ALTERNATES FOR EXPANSION CHASSIS USE.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

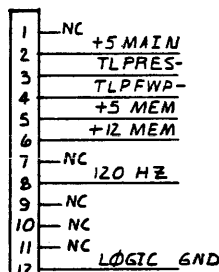
**AUXILIARY
POWER SUPPLY
PIN ASSIGNMENTS**



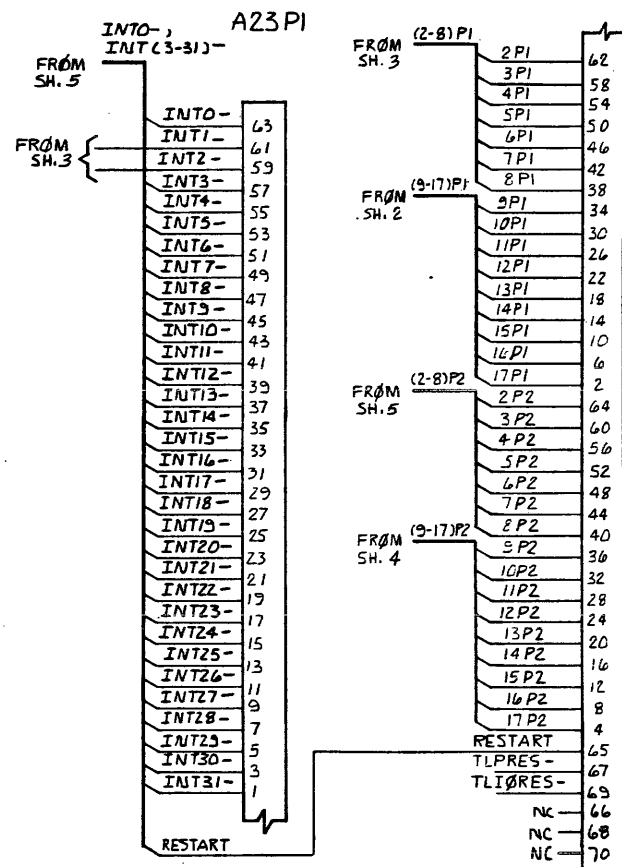
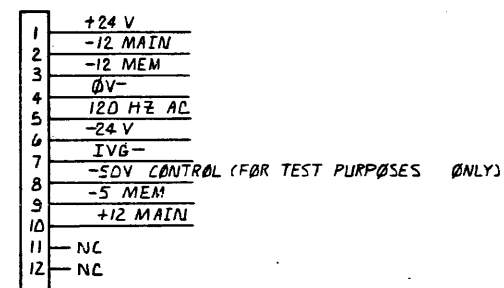
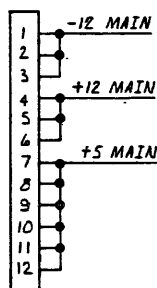
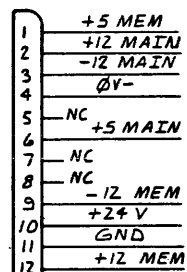
**+12V AND +5 MAIN
POWER SUPPLY
PIN ASSIGNMENTS**



**POWER SUPPLY
CONTROL BOARD
PIN ASSIGNMENTS**



**STANDBY
POWER SUPPLY
PIN ASSIGNMENTS**



REV STATUS	REV	1	2	3	4	5
OF SHEETS	SH					

REV	STATUS	REV	1	2	3	4	5	ITEM NO	QTY	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:
 • DIMENSIONS ARE IN INCHES
 • TOLERANCES ANGLES ±1°
 3 PLACE DECIMALS = .010
 2 PLACE DECIMALS = .02
 • INTERPRET DRAWING PER MIL-STD-883C
 • REMOVE ALL BURRS AND SHARP EDGES
 • CONCENTRICITY MACHINED DIAMETERS .010 P.M.
 • DIMENSIONAL UNITS APPLY BEFORE PROCESSES
 • PARENTHESES FOR REF ONLY

MOLE TOLERANCE
 .013 - .004 .128 .006 .251 - .008
 .125 - .001 .250 .001 .500 - .001

2265295 7057
 NEXT ASSY USED ON
 APPLICATION

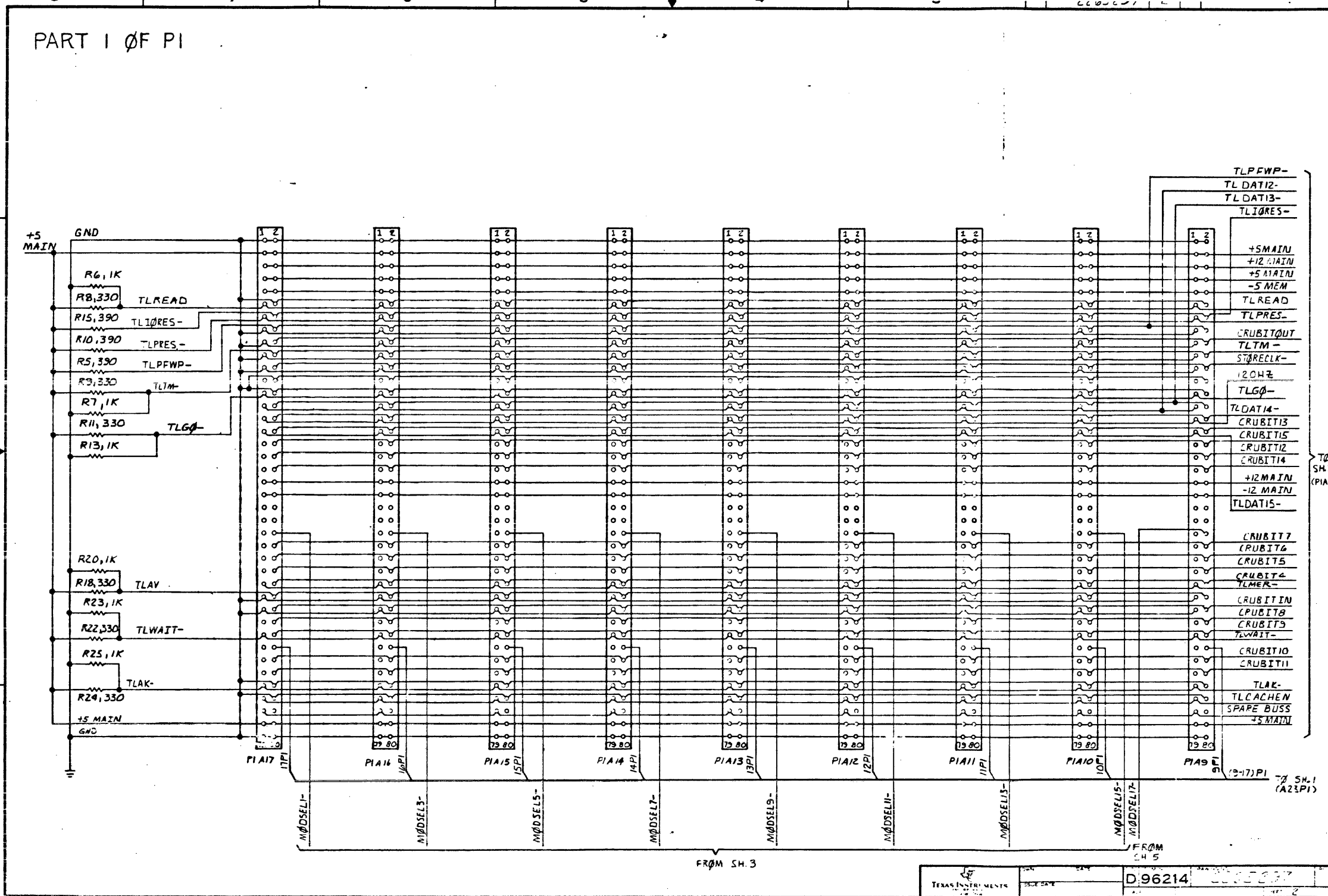
PARTS LIST
 D96214 SCHEMATIC DIAGRAM, BACKPANEL, 17 SLOT CHASSIS

TEXAS INSTRUMENTS
 INCORPORATED
 DALLAS, TEXAS

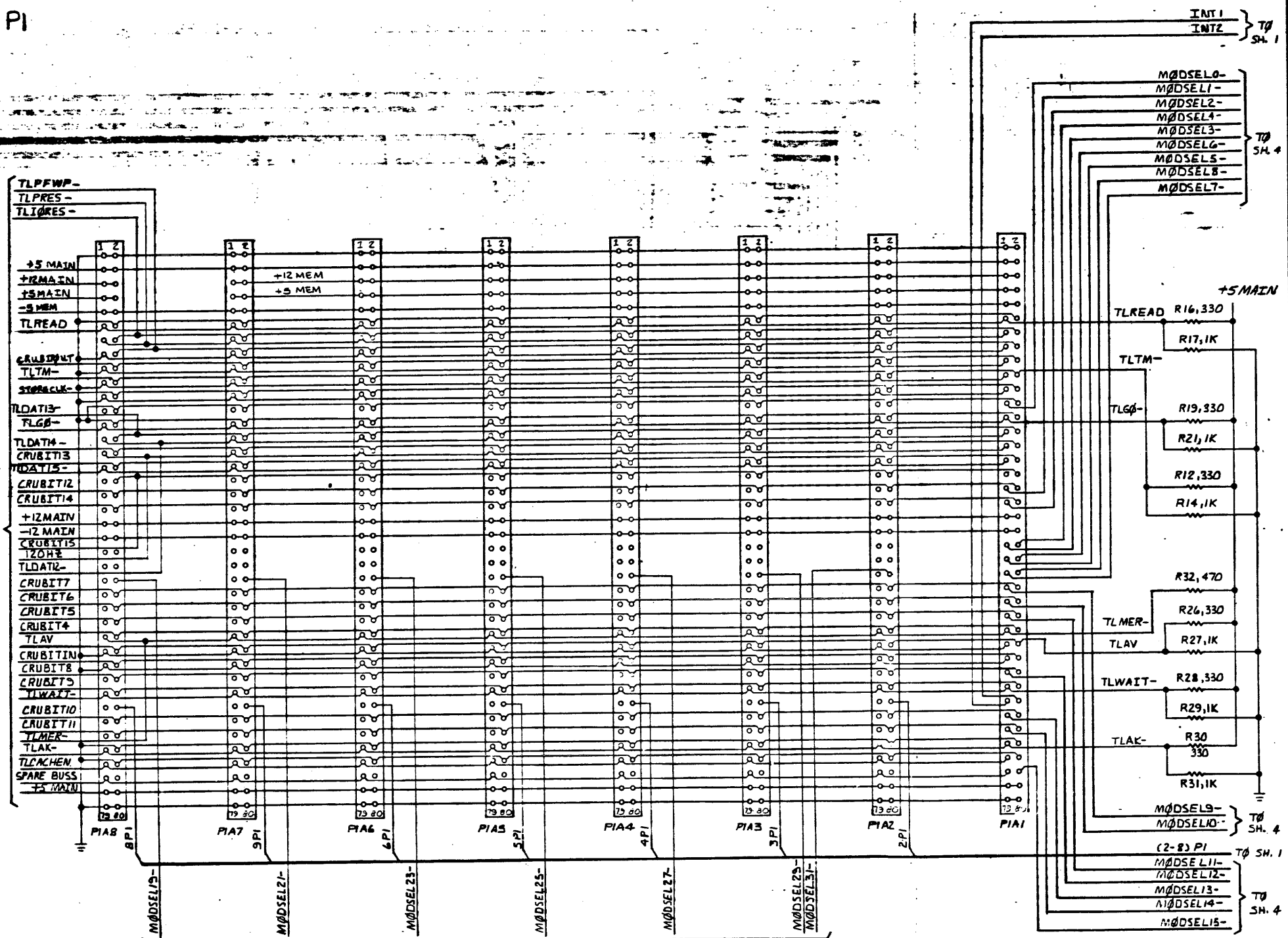
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SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

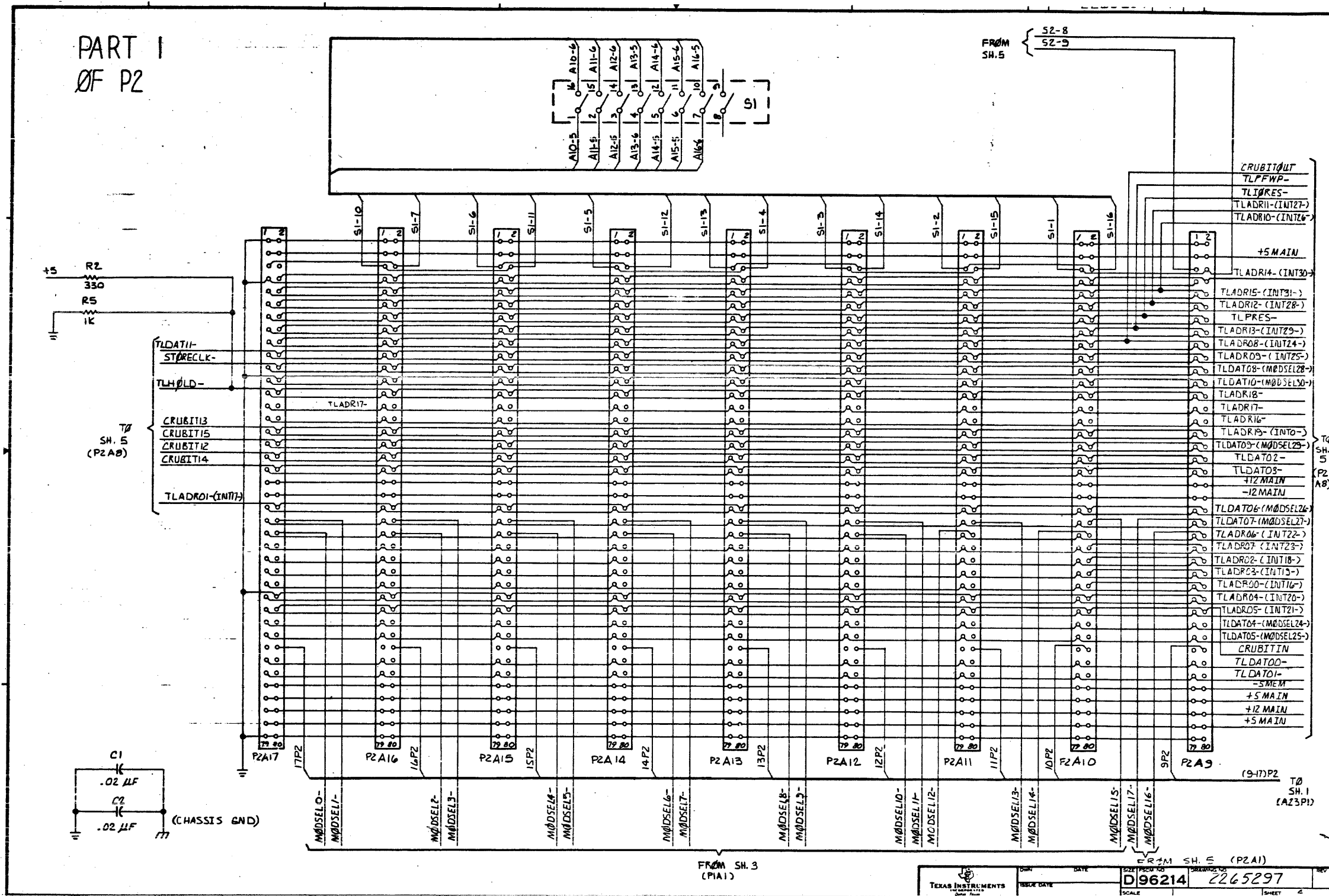
PART 1 OF PI

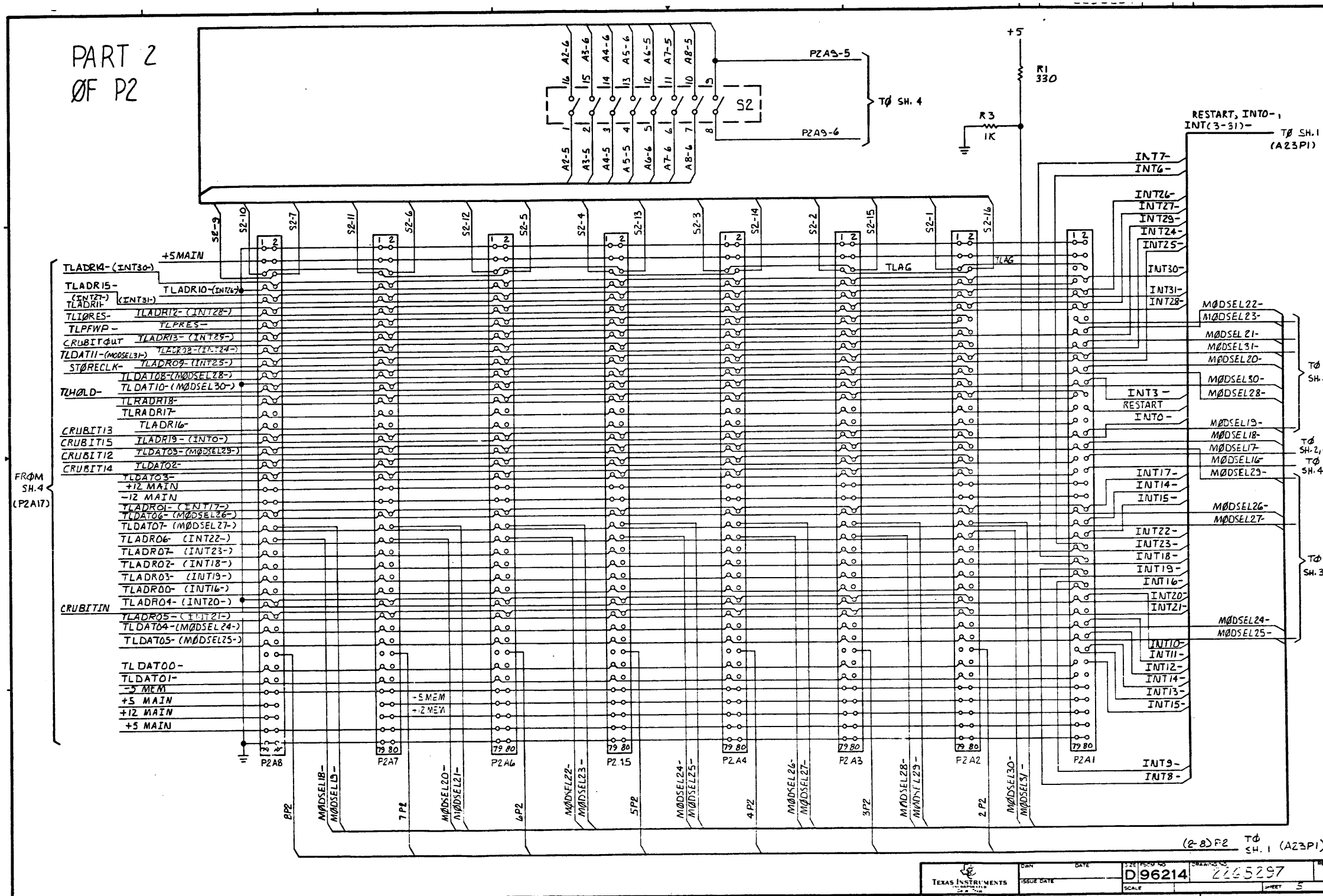


PART 2 OF P1



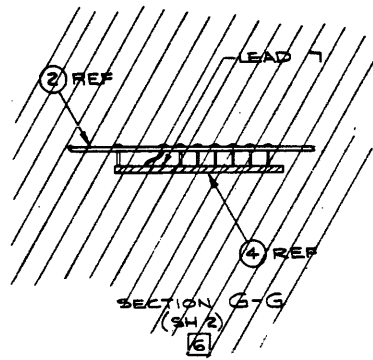
DATE	REV	NO.	2265297
DESIGNED BY	CHECKED BY	DATE	3
TEXAS INSTRUMENTS		D96214	





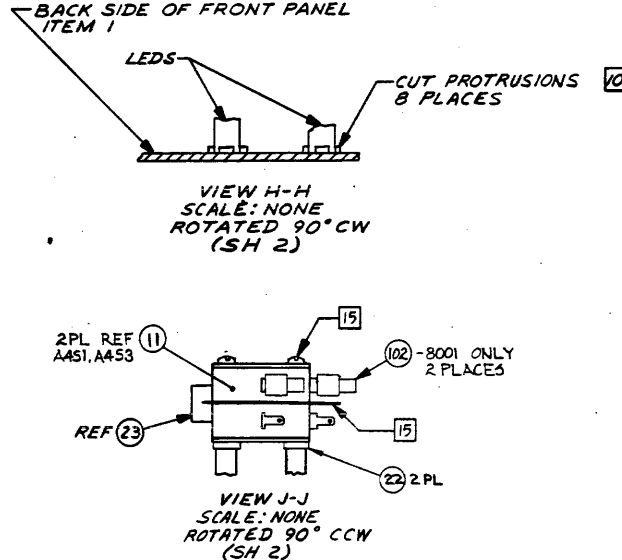
NOTES: CONT

- 16 WHEN INSTALLING ITEM 2 KEYBOARDS (VIEW G-G) OVER ITEM 9, EXTRA PRECAUTIONS MUST BE TAKEN TO INSURE KEYBOARD PADS DO NOT TOUCH ITEM 5 DURING ANY HORIZONTAL MOVEMENT. AFTER COMPLETED INSTALLATION OF ITEM 2, PRESS EACH KEY (ITEM 9) INDIVIDUALLY TO INSURE A POSITIVE METALLIC CLICK IS FELT, AND THERE IS NO STICKING OF ITEM 5.



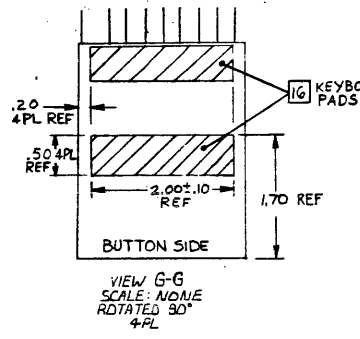
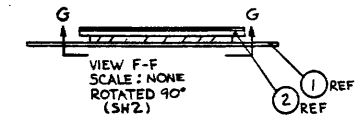
NOTES: CONTINUED

- 17 WHEN PINS 545022-0001 (A) IS USED, CUT LEAD OF KEYBOARD AND ASSEMBLE AS SHOWN
- 18 SEAL ITEM 8 PER PROCESS 2
- 19 TIGHTEN FIRST NUT AGAINST PANEL. TIGHTEN SECOND NUT AGAINST FIRST NUT WITHOUT TURNING FIRST NUT
- 20 APPLY ITEM 21 TO THE CYLINDRICAL BEARING SURFACE AND TO THE TUMBLERS OF THE PLUG PORTION OF ITEM 8
- 21 CLIP OFF PLASTIC PROTRUSIONS ON BACK SIDE OF FRONT PANEL WITH SIDE CUTTERS OR OTHER SUITABLE INSTRUMENT
- 22 APPLY ITEM 21 TO TIP AND SIDES OF CAM DETENT PIN ITEM 9
- 23 INSERT KEY INTO ITEM 8 AND ROTATE KEY CCW TO POWER OFF POSITION. ADJUST SWITCHES, ITEMS 11 AND 12, SO THAT SWITCH TABS ARE CLOSE AS POSSIBLE TO ITEM 7 (LOWEST RADIAL CAM SURFACE) WITHOUT TOUCHING
- 24 CUT 1/8 INCH STRIPS OF OVERLAY PLATE FROM THE BOTTOM SIDE OF THE KEYBOARD AS ILLUSTRATED IN
- 25 ASSY -0001 USES OVERLAY PLATE AS SHOWN. ASSY -0002 USES SPECIAL CUSTOMER OVERLAY RATE
- 26 NYLON SEPARATOR AND SCREWS ARE PART OF ITEM 23



NOTES:

- 1 REMOVE KEY FROM LOCK BARREL WHILE INSTALLING CAM. THIS PROCEDURE INSURES PROPER ALIGNMENT OF TUMBLERS
- 2 ITEM 20 MUST BE ATTACHED TO ITEM 6 PRIOR TO INSERTION INTO ITEM 1. ITEM 20 SHOULD BE POSITIONED ON ITEM 6 SO THAT IT DOES NOT SHORT ACROSS WEAR FRAMES
- 3 USE ALIGNMENT FIXTURE TO ALIGN ITEM 3 WITH ITEM 1, IF REQUIRED.
- 4 SOLDER LEAD FRAMES OF ITEM 4 INTO HOLES IN ITEM 2
- 5 WHEN CHICAGO LOCK, ITEM 8, IS USED, LOCATING TABS IN ITEM 7 MUST BE BROKEN OFF



ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		24 406703 (C) R. P. R. (1) DELETED NOTE 7, PROCESS 2 & ITEMS 21 & 22 (2) ADDED NOTE B 13, REVISED SECTION E-E ON SH 2	7/10/76	H. G. G.
B		CN 407527 (D) R. P. R. (1) ADDED NOTE 9 (3) ITEM 21 (2) SH 2 ADDED FLAG 9 (3) ITEM 10 WAS 419763-0037	5-12-76	R. P. R.
C		24 415311 (C) R. P. R. (1) ADDED ITEM 22 TO L/M & F/D (SH 2)	7/5/76	H. G. G.
D		CN 411421 (C) R. P. R. (1) DELETED ITEMS 15 & 19	8/10/76	H. G. G.
E		422689 (C) R. P. R. (1) REVISED PER EXTENSIVE ENGINEERING CHANGES.	1/5/77	H. G. G.
F		CN 417336 (C) R. P. R. (1) ADDED NOTE 10 (2) ADDED VIEW H-H	5/19/77	H. G. G.
G		CN 417896 (B) R. P. R. (1) ADDED IT. 23, 24 & 25 (2) IT. 11 QTY WAS 1 (3) IT. 13 QTY WAS 4 (4) ADDED VIEW J-J	5/17/77	H. G. G.
H		CN 417185 (C) R. P. R. (1) ADDED ITEMS 26 AND 27 (2) ITEM 14 QTY WAS 19	8-16-77	H. G. G.
J		CN 417190 (C) R. P. R. (1) ADDED NOTE 11	8-16-77	H. G. G.
K		CN 421259 (C) R. P. R. (1) ADDED NOTE 12, SH 1 (2) BALLOON 11 & 12, ADDED NOTE 13, SH 2 (3) LM ITEM 16 PN WAS 94496-9901 (4) LM ITEM 22 PN WAS 083997-0002	9-1-77	H. G. G.
L		CN 422247 (D) G. M. G. (1) ADDED ITEMS 28, 29, 30 & 31 (2) RELOCATED ITEM 25	1/27/78	H. G. G.
M		24 417390 (C) R. P. R. (1) ON LM ITEM 16 PN 945028-9901	4-19-78	J. R. R.
N		CN 441813 (B) R. P. R. (1) ON ECN 417896 REV G CLASS OF CHANGE WAS D (2) ADDED -8001 ASSY (3) ADDED ITEM 102 TO VIEW J-J	9-19-78	J. R. R.
P		CN 448770 (C) R. P. R. (1) IN E-B-5 ADDED ITEM 22 TO F/D (2) ON L/M ITEM 22 QTY WAS 13	5-22-79	E. King
R		CN 450806 (E) R. P. R. (1) ON -0001 LM, ITEM 6 WAS 4.000 EA 945029-0001 CUS-HION, FOAM, FRONT PANEL (2) SH 1, ADDED VIEWS F-F & G-G (3) ADDED NOTE 13 & VIEW PLANE F-F	10-15-79	E. King
T		CN 435502 (E) J. R. R. (1) CREATED -0002 LM (2) STRUCTURED -8002 LM ON COMPUTER (3) ADDED NOTE 14 AND REF TO NOTE 16 AT BALLOON 3 ON SHEET 2 OF F/D (4) ADDED PN 945020-0002 TO PIN BLOCK AND DELETED PN 945020-8001 FROM F/D BLOCK 1 LM	11-7-79	E. King
U		CN 461397 (D) G. M. G. (1) ADDED ITEM 32 TO SECT E-E SH 2 (2) SH 2 SECT EE FLAG NOTE B ZN C-2 WAS FLAG NOTE 9 (3) ADDED ITEM 32 TO -0001 LM	1-9-80	J. R. R.
V		CN 453281 (D) R. G. R. (1) LM-14-2 DELETED ITEM 24 (2) NOTE 12 WAS -- TABS NEARLY TOUCH -- (3) SURFACE (3) SH 1, VIEW J-J BALLOON 23 WAS 24, ADDED NYLON SEPARATOR (4) ADDED NOTE 15	3-20-80	J. R. R.

REV	STATUS	DESCRIPTION
945020-0002	FPT PHIL ASSY. PROG. PHIL-JOHNSON CONTROLS	
945020-0001	FRONT PANEL ASSY, PROGRAMMER'S, 990	

PROCESSES:
1. SOLDER PER F127 METHOD I
2. SEAL PER F-650 USING ITEMS 11 AND 22

REV STATUS OF SHEETS	REV	W	W	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
	SH	1	2						

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 PIR	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES 90°
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ±.010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ±.02

HOLE TOLERANCE
.013 THRU +.004
.125 THRU -.001
.801 THRU -.001
1.25 THRU -.001
2.51 THRU -.001
3.00 THRU -.001
3.50 THRU -.001
4.00 THRU -.001
4.50 THRU -.001
5.00 THRU -.001
5.50 THRU -.001
6.00 THRU -.001
6.50 THRU -.001
7.00 THRU -.001
7.50 THRU -.001
8.00 THRU -.001
8.50 THRU -.001
9.00 THRU -.001
9.50 THRU -.001
10.00 THRU -.001

DATE	BY	APPROVED
11/5/75	J. R. R.	
1/2/76	H. G. G.	
1/2/76	H. G. G.	
4/21/76	H. G. G.	
11/1/76	H. G. G.	

DESIGN ACTIVITY RELEASE	DATE	BY	APPROVED
	11/1/76	H. G. G.	

SIZE	CODE IDENT NO	DRAWING NO
D	96214	945020

SCALE	SHEET
1/11	1 OF 2

TEXAS INSTRUMENTS
INCORPORATED
Equipment Group Dallas, Texas

FRONT PANEL ASSEMBLY,
PROGRAMMER'S, 990

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945020-0001		REV M	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945021-0001	FRONT PANEL, MOLDED, TIN, 990						
0002	00001.000	EA		0945025-0001	PWB ASSY, 990 PROGRAMMER'S FRONT PANEL						
0003	00001.000	FA		0945024-0001	PLATE, ESCUTCHEON OVERLAY, PROG FRT PNL						
0005	00032.000	EA		0945151-0001	KEY, CALCULATOR, BLANK						
0007	00001.000	FA		0945097-0001	CAM, SWITCH						
0008	00001.000	EA		0972839-0001	CAM LOCK						
0009	00001.000	FA		0945232-0001	PIN, DETENT						
0010	00001.000	FA		0946753-0001	SPRING, UN-GROUND .38L 5 COIL						
0011	00002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX					
0011A					A4S1 A4S3						
0012	00001.000	EA		0972841-0002	SWITCH, MINI, SNAP-ACTION SPDT, 0.1 AMP						
0012A					A4S2						
0013	00002.000	FA		0972679-0006	SCREW, PLASTITE, 2-28 X 5/8						
0014	00013.000	EA		0972679-0009	SCREW #4-20 X 3/8" LG THD FORM, HEX						
0016	RFF	FA		0945033-9901	TEST PROCEDURE, OPERATOR FRONT PANEL, 990						
0017	REF	EA		0945027-9901	LOGIC DIAGRAM, 990 PROGRAMMER'S FRT PNL						
0018	RFF	EA		0946681-9901	SPECIFICATION-990 PROGRAMMER'S FRT PNL						
0021	MP	FA		0417985-0001	GREASF, AIRCRAFT, GENL PRP WIDE TEMP RANGE						
0022	00015.000	EA		0236378-1000	WASHER SHLD FIBRE .375ODX.140IDX.093 THK SMT -2150						
0023	00001.000	FA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FRONT PANEL ASSY, PROGRAMMER'S, 990					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
						7506	LM0945020-0001	M			

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945020-0001		REV M	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0025	00001.000	FA		0936388-0001	LUG, GROUNDING, FRONT PANEL						
0026	00006.000	FA		0972683-0007	SCREW, 6-20 X 5/8 THD FRM, SLOT HK WSR HD						
0027	00007.000	EA		0418730-0205	WASHER, .149 ID X .312 OD PLAS & SYN						
0028	00001.000	FA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CPES						
0029	00002.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	OPL - MS15795-806					
0030	00001.000	FA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CPES	OPL - MS35335-58					
0031	00001.000	FA		0411115-0064	NUT, PLAIN 6-32 UNC-2B HEX CPES	OPL - MS35649-264					
0032	00001.000	EA		0410894-0044	LOCKWASHER 7/16 INTERNAL TOOTH CPES	SMA - 1727-01					
DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FRONT PANEL ASSY, PROGRAMMER'S, 990					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
							LM0945020-0001	M			

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945020-0002		REV M	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945021-0001	FRONT PANEL, MOLDED, TIN, 990						
0002	00001.000	FA		0945025-0001	PWB ASSY, 990 PROGRAMMER'S FRONT PANEL						
0003	00001.000	FA		2267158-0001	OVERLAY, CONSOLE, PROGRAMMER, SPECIAL						
0005	00032.000	EA		0945151-0001	KEY, CALCULATOR, BLANK						
0007	00001.000	EA		0945097-0001	CAM, SWITCH						
0008	00001.000	EA		0972839-0001	CAM LOCK						
0009	00001.000	FA		0945232-0001	PIN, DETENT						
0010	00001.000	EA		0946753-0001	SPRING, UN-GROUND .38L 5 COIL						
0011	00002.000	EA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX					
0011A					A4S1 A4S3						
0012	00001.000	EA		0972841-0002	SWITCH, MINI, SNAP-ACTION SPDT, 0.1 AMP						
0012A					A4S2						
0013	00002.000	FA		0972679-0006	SCREW, PLASTITE, 2-28 X 5/8						
0014	00013.000	EA		0972679-0009	SCREW #4-20 X 3/8" LG THD FORM, HEX						
0016	RFF	FA		0945033-9901	TEST PROCEDURE, OPERATOR FRONT PANEL, 990						
0017	RFF	EA		0945027-9901	LOGIC DIAGRAM, 990 PROGRAMMER'S FRT PNL						
0018	RFF	EA		0946681-9901	SPECIFICATION-990 PROGRAMMER'S FRT PNL						
0021	MP	FA		0417985-0001	GREASF, AIRCRAFT, GENL PRP WIDE TEMP RANGE						
0022	00015.000	EA		0236378-1000	WASHER SHLD FIBRE .375ODX.140IDX.093 THK SMT -2150						
0023	00001.000	EA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FRT PNL ASSY, PROG PNL-JOHNSON CONTROLS					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
							LM0945020-0002	M			

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945020-0002		REV M	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0025	00001.000	FA		0936388-0001	LUG, GROUNDING, FRONT PANEL						
0026	00006.000	FA		0972683-0007	SCREW, 6-20 X 5/8 THD FRM, SLOT HK WSR HD						
0027	00007.000	EA		0418730-0205	WASHER, .149 ID X .312 OD PLAS & SYN						
0028	00001.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CPES						
0029	00002.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	OPL - MS15795-806					
0030	00001.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CPES	OPL - MS35335-58					
0031	00001.000	FA		0411115-0064	NUT, PLAIN 6-32 UNC-2B HEX CPES	OPL - MS35649-264					
DRAFTSMAN	DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FRT PNL ASSY, PROG PNL-JOHNSON CONTROLS					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
							LM0945020-0002	M			

NOTES CONTINUED

- SOLDER LEAD FRAMES OF ITEM 34 INTO HOLES IN ITEM 1. CUT WIRES .950±.050 AS INDICATED WHEN PWB 945026-0001 (*) IS USED, CLIP LEAD 7 OF KEYBOARD 3 & ASSEMBLE AS SHOWN
- ITEM 36 MUST BE ATTACHED TO ITEM 34 PRIOR TO INSERTION INTO ITEM 1. ITEM 36 SHOULD BE POSITIONED ON ITEM 34 SO THAT IT DOES NOT SHORT ACROSS LEAD FRAMES
- CUT 8.2 INCH STRIPS OF ITEM 39, PLACE THEM ON THE BOTTOM SIDE OF THE KEYBOARD AS ILLUSTRATED IN VIEW F-F

NOTES: CONT

- INSTALL ITEM 11 (U13) IN SOCKET
- CUT U5 P/W AND ISOLATE FROM ETCN
- USING WIRE P/W (535978-0058) ADD THE FOLLOWING JUMPERS:

FROM DEVICE	TO PIN	FROM DEVICE	TO PIN
U13	14	U2	14
	13	U5	6
	12	U13	14
	11	U9	3
	10	U5	7
	9	U9	2
	7	U2	7
- SECURE WIRES TO BOARD EVERY 2 INCHES USING HOT MELT (996069-0003) (NOTES CONT. ZONE D6)

NOTES:

- 0002 ONLY. INSTALL C9, ITEM 20 USING ITEM 31, PER VIEW B
- REWORK PROCEDURE FOR PWB 945026 REV B
 - CUT PINS OFF FLUSH WITH BOTTOM OF SOCKET P/W (534544-0001)
 - ATTACH SOCKET TO COMPONENT SIDE OF CIRCUIT BOARD USING HOT MELT (996069-0003) AS SHOWN BELOW:

PROCESSES:

- SOLDER PER F-127, METHOD I, AND/OR F-124
- MARK PER F-100, METHOD II, CLASS 1, HEIGHT .09, COLOR BLACK

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CU4076990(B) 7... (1) COLORED STRIPE WAS RED WIRE AT TOP EDGE OF RIBBON CABLE (2) P/W WAS TO TOP OF CONDUCTOR (3) UPDATED REV LEVEL BLOCK	7/12/76	W. H. ...
B		CN 406619 (2) D.R. (1) L/M, CREATED -2 L/M (2) ADDED DIM A TABLE + VIEW B + NOTE 1	5/19/76	W. H. ...
C		CN 40776378 (2) D.R. (1) DIM A FOR -0001 WAS 5.40±.25 (2) UPDATED REV LEVEL BLOCK	5-17-76	A. P. ...
D		CN 411929 (C) R. ... (1) ADDED REV LEVEL BLOCK	6/22/76	W. H. ...
E		CU 433891 (B) R. ... (1) ADDED ITEM 11 QTY WAS 1 ADDED U1 TO ITEM 11A (2) ADDED NOTE 2 (3) UPDATED REV LEVEL BLOCK	8/11/76	W. H. ...
F		CU 415353 (D) R. ... (1) DIM A 7.50 WAS 5.60 (2) U1 -0001 L/M ITEM 26 WAS -B (3) UPDATED REV LEVEL BLOCK	8/11/76	W. H. ...
G		CN 422668 (C) D. ... (1) ADDED NOTE 3 & 4 (2) ADDED SECTIONS C-C, D-D TO P/D (3) ADDED ITEM 34 TO PICTORIAL F/LM -1 & -2 (4) UPDATED REV LEVEL BLOCK	1/5/77	W. H. ...
H		CN 417186 (C) N. ... (1) DELETED RED WIRE CALLOUT (2) ADDED TEST PROCEDURE 945026-9401 (3) UPDATED REV LEVEL BLOCK	6-7-77	A. R. ...
J		CN 424379 (B) E. ... (1) ADDED ITEM 35 TO LM & F/D (2) NOTE 1 WAS ... C9, ITEM N O (3) ... (3) UPDATED REV LEVEL B/LM	8-2-77	A. R. ...
K		CN 421890 (C) R. ... (1) ON P/D CHANGED SECTION D-D, ADDED BALLOON (2) + PL, ADDED (3) (4) ON LM ADDED ITEM 36, (5) UPDATED REV LEVEL B/LM	9-2-77	W. H. ...
L		CN 421890 (C) R. ... (1) ON LM -0001 & -0002 ITEM QTY WAS 2, DELETED U1'S FROM ITEM 11A, ITEM 12A ADDED U1'S DELETED U7, ADDED ITEMS 37 & 37A, UPDATED REV LEVEL B/LM	9-2-77	W. H. ...
M		CU 421893 (C) R. ... (1) WITH CHANGE INCORPORATED BY ECN 421890 REV 1 (2) UPDATED REV LEVEL BLOCK	9-22-77	A. P. ...
N		CN 424918 (C) C. ... (1) IN REV LEVEL BLOCK C ON -0001 & -0002 L/M'S (ITEMS) TEST PROC. NO. WAS 945026-9901 (2) UPDATED REV LEVEL BLOCK	5-25-78	A. P. ...
P		CN 421892 (C) R. ... (1) ZONE CB DELETED P/W (2) NOTE 2E WAS ... BUBBLES ON 25, 36 (3) BUBBLES ON 25, 36 (4) ... (5) ... (6) ... (7) ... (8) ... (9) ... (10) ... (11) ... (12) ... (13) ... (14) ... (15) ... (16) ... (17) ... (18) ... (19) ... (20) ... (21) ... (22) ... (23) ... (24) ... (25) ... (26) ... (27) ... (28) ... (29) ... (30) ... (31) ... (32) ... (33) ... (34) ... (35) ... (36) ... (37) ... (38) ... (39) ... (40) ... (41) ... (42) ... (43) ... (44) ... (45) ... (46) ... (47) ... (48) ... (49) ... (50) ... (51) ... (52) ... (53) ... (54) ... (55) ... (56) ... (57) ... (58) ... (59) ... (60) ... (61) ... (62) ... (63) ... (64) ... (65) ... (66) ... (67) ... (68) ... (69) ... (70) ... (71) ... (72) ... (73) ... (74) ... (75) ... (76) ... (77) ... (78) ... (79) ... (80) ... (81) ... (82) ... (83) ... (84) ... (85) ... (86) ... (87) ... (88) ... (89) ... (90) ... (91) ... (92) ... (93) ... (94) ... (95) ... (96) ... (97) ... (98) ... (99) ... (100) ... (101) ... (102) ... 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TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945025-0001		REV TJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945026-0001	PWB, 990 PROGRAMMER'S FRONT PANEL							
0002	REF	EA		0945027-9901	LOGIC DIAGRAM, 990 PROGRAMMER'S FRT PNL							
0003	REF	EA		0945033-9901	TEST PROCEDURE, OPERATOR FRONT PANEL, 990							
0004	REF	EA		0946681-9901	SPECIFICATION-990 PROGRAMMER'S FRT PNL							
0006	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RDH	- R-25					
0006A					R1							
0007	00001.000	EA		0222222-7150	NETWORK SN74150M							
0007A					U1							
0008	00001.000	EA		0972900-7410	NETWORK SN74LS10M							
0008A					U2							
0009	00002.000	EA		0972688-0001	NETWORK SN74LS164M							
0009A					U3 U4							
0010	00001.000	EA		0972783-0001	NETWORK, SN74LS42N BCD/DEC							
0010A					U5							
0011	00001.000	EA		0972900-7474	NETWORK SN74LS74M							
0011A					U6							
0012	00001.000	EA		0972900-7400	NETWORK SN74LS00M	TI	-SN74LS00M					
0012A					U13							
0013	00002.000	EA		0972159-7265	NETWORK, SN74265M							
0013A					U8 U12							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PWB ASSY, 990 PROGRAMMER'S FRONT PANEL				
							7506	PART NUMBER LM0945025-0001				
								REV TJ				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945025-0001		REV TJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0014	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST	-NE555V					
0014A					U9							
0015	00002.000	EA		0972141-0029	NETWORK, RES. 330 OHM 2 8 14 PIN DIP	REC	- 899-1-R330					
0015A					U10 U11							
0016	00005.000	EA		0230590-9000	CAP .05 MF 12 V 20% CER TRANSCAP	ERI	-5635-000-Y5F05					
0016A					C3 THRU C7							
0017	00001.000	EA		0972946-0039	RES FIX 82.0 OHMS 5% .25 W CARBON FILM	RDH	- R-25					
0017A					R3							
0018	00001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 8 15 VOLT	QPL	-H39003/1-2271					
0018A					C8							
0019	00001.000	EA		0972976-0171	RES FIX COMP 1/4 W 3.3 MEGOHM 5%	QPL	-RC076335JS					
0019A					R2							
0020	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL	-H39014/01-1397					
0020A					C1							
0021	00001.000	EA		0053992-0001	CAP FIX CERAMIC .010 MF 40/60 8 150V	CRL	- DON-103					
0021A					C2							
0022	00020.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220							
0022A					CR1 THRU CR20							
0023	00020.000	EA		0946646-0001	STANDOFF, MTC, LED							
0027	00000.600	FT		0538347-3399	WIRE HOOKUP 8-22 AWG 19 STR OR/WH	JUD	- HH0115					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PWB ASSY, 990 PROGRAMMER'S FRONT PANEL				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945025-0001				
								REV TJ				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/78		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945025-0001		REV TJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0028	00000.600	FT		0538347-3099	WIRE HOOKUP 8-22 AWG 19 STR BK/WH	JUD	- HH0115					
0029	00003.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-NON-STD, 8-1-1/4 D.							
0030	00002.000	EA		0235837-1800	TERMINAL LUG FASTON INSUL AWG 22-18	ANP	-60972-3 TAPE M					
0034	00004.000	EA		0945150-0001	KEYBOARD, CALCULATOR, 5X4 (10KS100)							
0036	00004.000	EA		0946671-0001	SHIELD, HEAT, KY30							
0037	00001.000	EA		0219402-7138	NETWORK SN74S138M							
0037A					U7							
0038	00001.000	EA		0945219-0001	CABLE ASSY, 990 PROGRAMMER, 7.5 INCH							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PWB ASSY, 990 PROGRAMMER'S FRONT PANEL				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945025-0001				
								REV TJ				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945025-0002		REV TJ		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0945026-0001	PWB, 990 PROGRAMMER'S FRONT PANEL							
0002	REF	EA		0945027-9901	LOGIC DIAGRAM, 990 PROGRAMMER'S FRT PNL							
0003	REF	EA		0945033-9901	TEST PROCEDURE, OPERATOR FRONT PANEL, 990							
0004	REF	EA		0946681-9901	SPECIFICATION-990 PROGRAMMER'S FRT PNL							
0006	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RDH	- R-25					
0006A					R1							
0007	00001.000	EA		0222222-7150	NETWORK SN74150M							
0007A					U1							
0008	00001.000	EA		0972900-7410	NETWORK SN74LS10M							
0008A					U2							
0009	00002.000	EA		0972688-0001	NETWORK SN74LS164M							
0009A					U3 U4							
0010	00001.000	EA		0972783-0001	NETWORK, SN74LS42N BCD/DEC							
0010A					U5							
0011	00001.000	EA		0972900-7474	NETWORK SN74LS74M							
0011A					U6							
0012	00001.000	EA		0972900-7400	NETWORK SN74LS00M	TI	-SN74LS00M					
0012A					U13							
0013	00002.000	EA		0972159-7265	NETWORK, SN74265M							
0013A					U8 U12							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PWB ASSY, 990 PROGRAMMER'S FRONT PANEL				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945025-0002				
								REV TJ				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945025-0002		REV T K	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST -NE555V					
0014A					U9						
0015	00002.000	EA		0972141-0029	NETWRK, RES. 330 OHM 2 X 14 PIN DIP	BEC - 899-1-R330					
0015A					U10 U11						
0016	00005.000	EA		0230590-9000	CAP .05 MF 12 V 20. X CER TRANSCAP	ERI -5635-000-Y5F05					
0016A					C3 THRU C7						
0017	00001.000	EA		0972946-0039	RES FIX 82.0 OHMS 5 X .25 W CARBON FILM	ROH - R-25					
0017A					R3						
0018	00001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT	QPL -H39003/1-2271					
0018A					C8						
0019	00001.000	EA		0972976-0171	RES FIX COMP 1/4 W 3.3 MEGOHM 5 X	QPL -RC07G335JS					
0019A					R2						
0020	00002.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10X 200V	QPL -H39014/01-1397					
0020A					C1 C9						
0021	00001.000	EA		0053992-0001	CAP FIX CERAMIC .010 MF 40/60 X 150V	CRL - DDM-103					
0021A					C2						
0022	00020.000	EA		0539400-0003	OPTOELECTRONIC DEVICE-TIL 220						
0022A					CR1 THRU CR20						
0023	00020.000	EA		0946646-0001	STANDOFF, MTG, LED						
0027	00000.600	FT		0538347-3399	WIRE HOOKUP B-22 AWG 19 STR BK/WH	JUD - MH0115					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE PWB ASSY, 990 PROGRAMMERS FRONT PANEL											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO LM0945025-0002 T K											

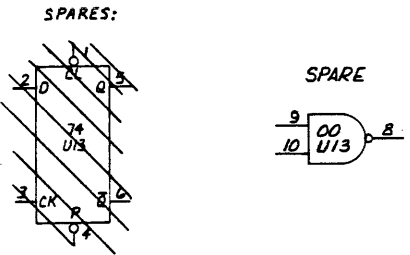
TEXAS INSTRUMENTS INCORPORATED		DATE 11/13/78		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945025-0002		REV T K	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0028	00000.600	FT		0538347-3099	WIRE HOOKUP B-22 AWG 19 STR BK/WH	JUD - MH0115					
0029	00003.000	EA		0972632-0001	STRAP, TIE DOWN, CABLE-MON-STD, 0-1-1/4 D.						
0030	00002.000	EA		0235837-1000	TERMINAL LUG FASTON INSUL AWG 22-18	AHP -60972-3 TAPE R					
0031	AR	FT		0410499-0006	INSULATION SLEEVING, TEFLON #22 NATURAL	QPL -81349					
0034	00004.000	EA		0945150-0001	KEYBOARD, CALCULATOR, 5X4 (10K5100)						
0035	00001.000	EA		0996499-0002	EXTENDER CABLE PULL-TAB 1.0 X 3.0	075037-3490-2					
0036	00004.000	EA		0946671-0001	SHIELD, HEAT, KY30						
0037	00001.000	EA		0219402-7138	NETWORK SN74S138N						
0037A					U7						
0038	00001.000	EA		0945219-0002	CABLE ASSY, 990 PROGRAMMER, 3 FT						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE PWB ASSY, 990 PROGRAMMERS FRONT PANEL											
APPD. MFG DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO LM0945025-0002 T K											

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN TTL IC'S AND PIN 8 OF ALL 16-PIN TTL IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN TTL IC'S AND PIN 16 OF ALL 16-PIN TTL IC'S
 4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



- DD AND D4 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR
5. ALL DISCRETE RESISTORS 1/4 WATT, 5%
 6. ALL IC RESISTORS 1/8 WATT, 2%

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		2421238-1(C) P. 1	
E		2421238-1(C) L.T.H.16	8-20-75
C		CU 421923 (C) L.T.H.16	8-22-75
D		CN 950036 (D) J. Davanzo	1-20-76

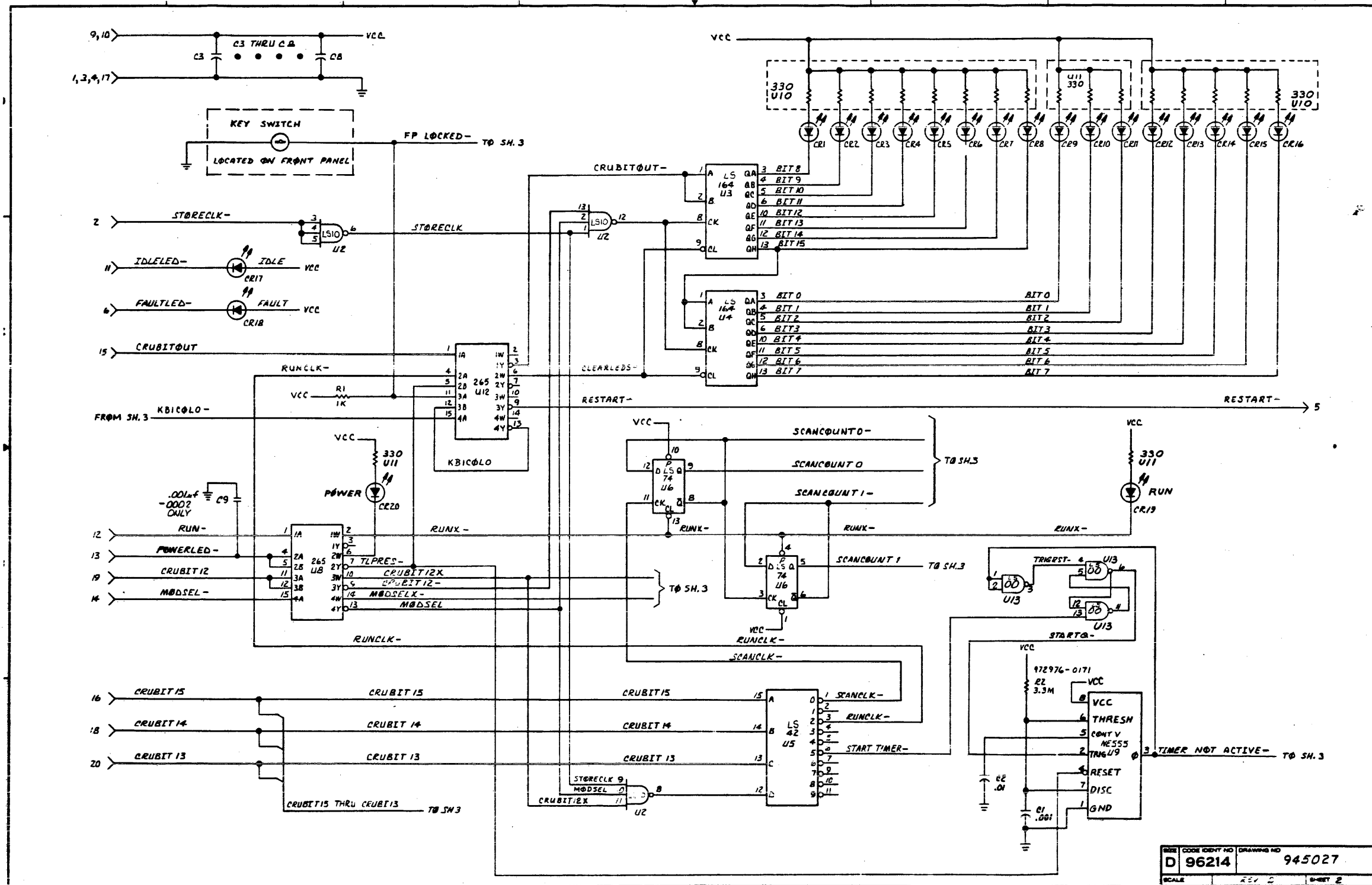


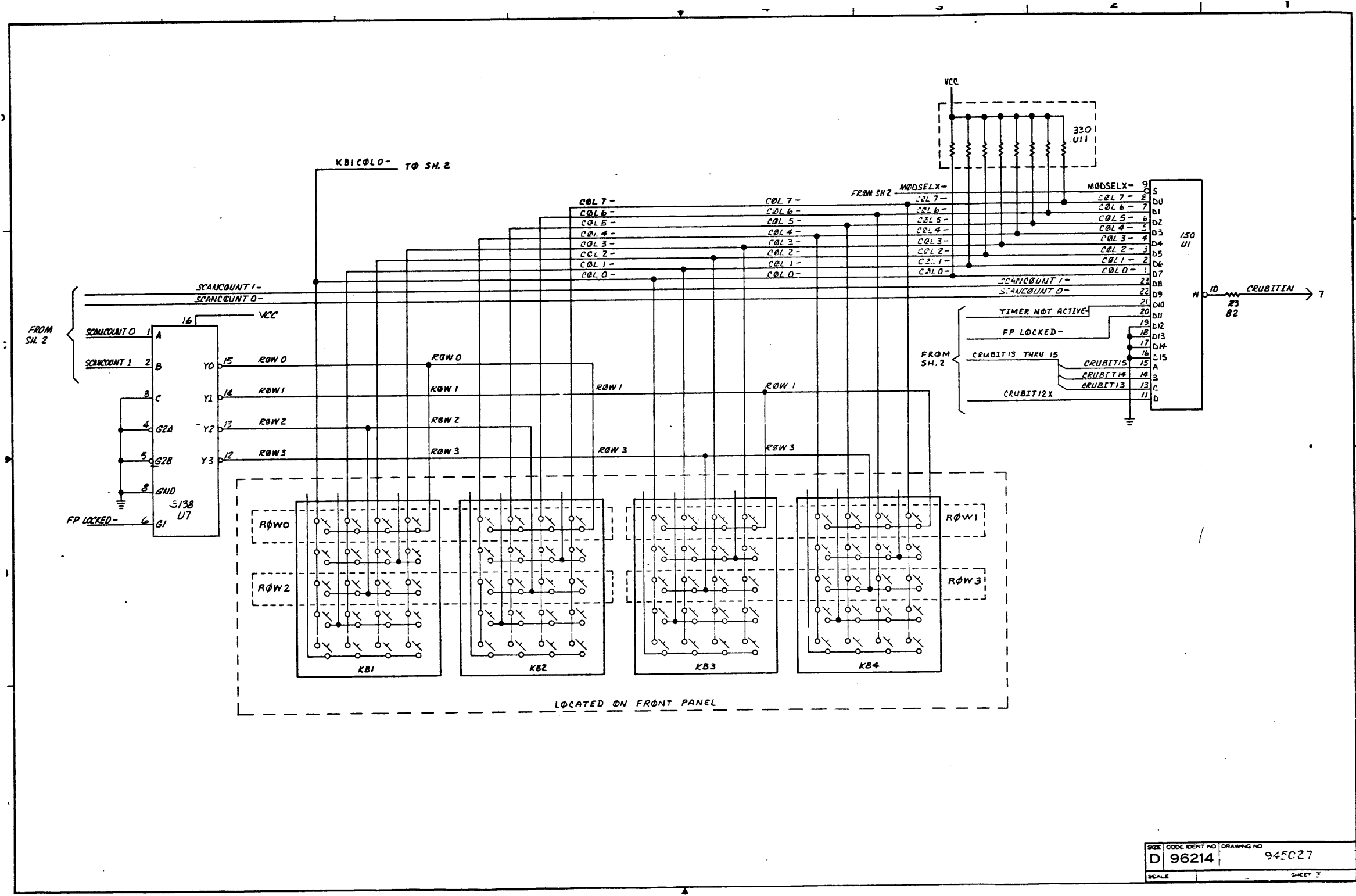
REV STATUS OF SHEETS	REV. D. I. C.	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	REQUIREMENT SPECIFICATION
SA	112	3					

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES		DIMENSIONS ARE IN INCHES	
CONCENTRICITY MACHINED DIAMETERS .010 FIR		TOLERANCES	
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		ANGLES ±1°	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		3 PLACE DECIMALS ±0.10	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS ±0.2	
		MATERIAL:	
		APPROV	
		CONTR NO	
		DESIGN ACTIVITY RELEASE	
		APPROV	
		CONTR NO	
		APPLICATION	

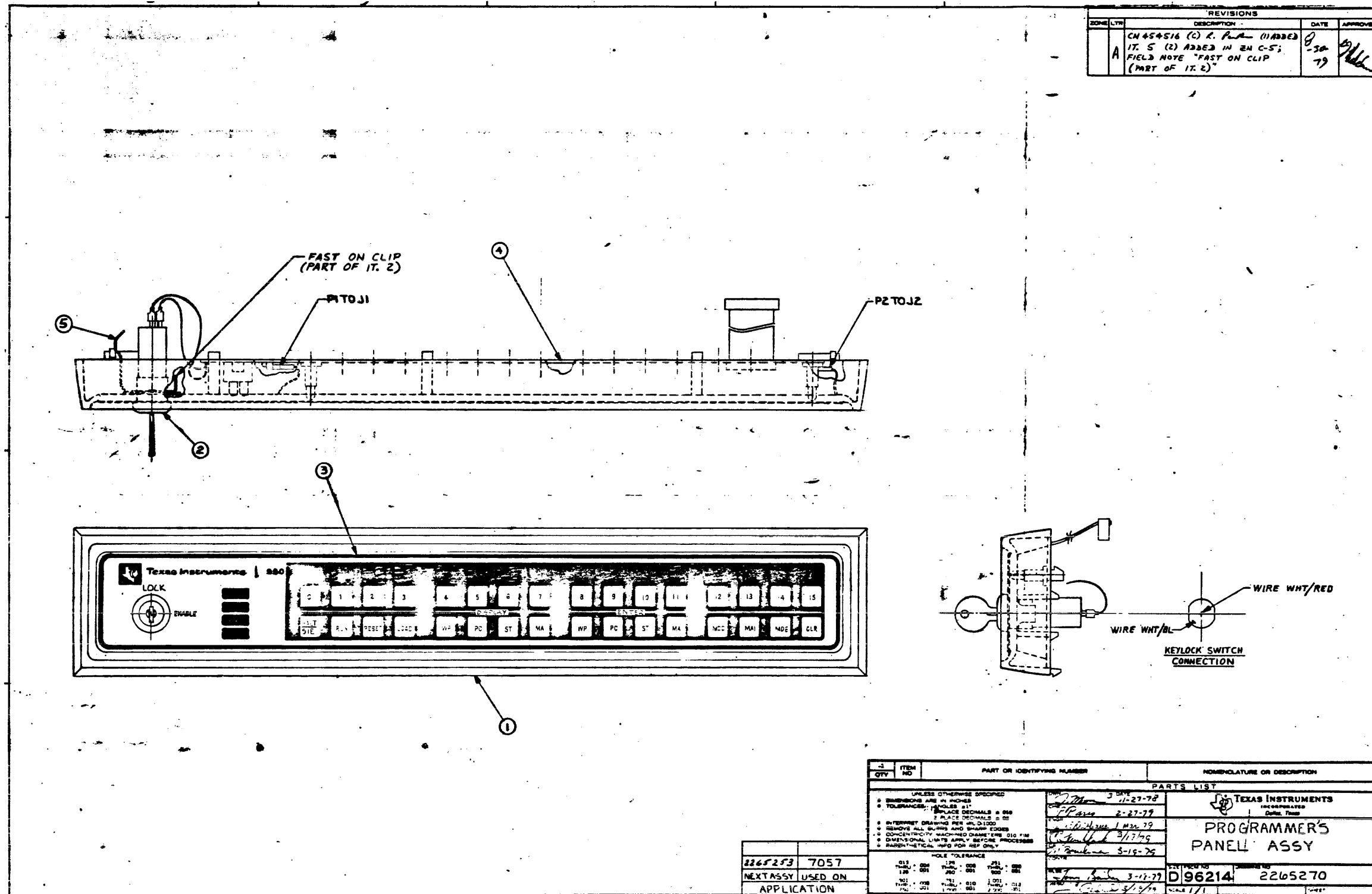
PARTS LIST	
OWN	DATE
23100	3 06/175
ENGR	
GA	
APPROV	
APPROV	
CONTR NO	
DESIGN ACTIVITY RELEASE	
APPROV	
CONTR NO	

SIZE	CODE IDENT NO	DRAWING NO
D	96214	945027





SIZE	CODE IDENT NO	DRAWING NO
D	96214	945027
SCALE		SHEET 2



REVISIONS			
CDR/LTR	DESCRIPTION	DATE	APPROVED
A	CN 454516 (C) R. PAUL (DABED) IT. 5 (2) ADDED IN 2N C-5; FIELD NOTE "FAST ON CLIP (PART OF IT. 2)"	8-30-79	[Signature]

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES: .010 INCHES ± .01 • PLACE DECIMALS & 00 • ALL DIMENSIONS PER UNLESS OTHERWISE SPECIFIED • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 INCH • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING • STATISTICAL INFO FOR REF ONLY			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas PROGRAMMER'S PANEL ASSY D96214 2265270
2265253	7057	NEXT ASSY USED ON APPLICATION	



TEXAS INSTRUMENTS
INCORPORATED

DATE 08/27/79 LIST OF MATERIAL

PAGE 1 of 1

PART NUMBER REV
LM2265270-0001 A

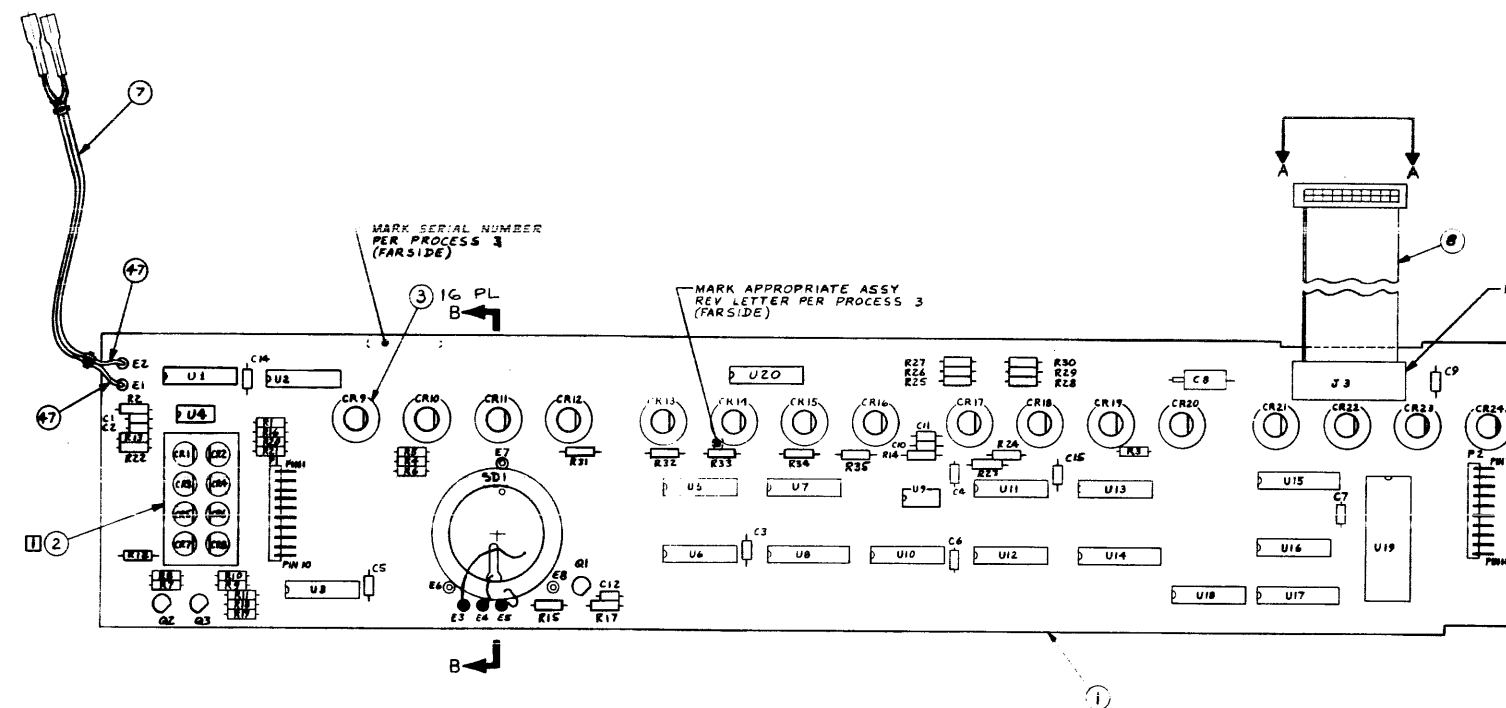
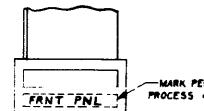
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		2265288-0001	FRONT PANEL, 3.5 INCH	
0002	00001.000	FA		2265372-0001	KEYLOCK SWITCH, ANTI-STATIC	
0003	30001.000	EA		2265282-0001	SWITCH AND OVERLAY, CONSOLE, PROGRAMMER	
0004	00001.000	EA		2265365-0001	PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS	
0005	00001.000	EA		2265462-0001	GROUND CLIP, KEYLOCK SWITCH	

DRAFTSMAN <i>R. Paul</i>	DATE 8/30/79	CDR DRAFTSMAN <i>[Signature]</i>	DATE 8-30-79	DESIGN ENGINEER	DATE	TITLE PROGRAMMER'S PANEL
APP'D. MFG.	DATE	DATE	RELEASED	DATE	PROJECT NO. 7057	PART NUMBER REV LM2265270-0001 A

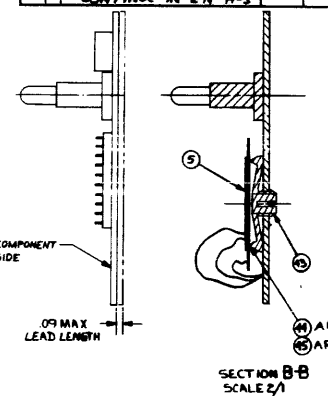
17-Slot Chassis Programmer Panel

NOTES: UNLESS OTHERWISE SPECIFIED
 1 IN THE EVENT ITEM 2 (2265365-0001) IS NOT AVAILABLE, AN ACCEPTABLE ALTERNATE IS P/N 2265365 -0001 2 PER ASSEMBLY
 2 ITEM 46 ON THE -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED AND CONTAINED IN THE -5001 LM

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	11-15-79	J.H.	REV G CONTINUED (ADDED D-7, REVERSED ORIENTATION ON SYMBOLS OF CLR THRU CR8)



REVISIONS			
NO.	DATE	BY	DESCRIPTION
A			CHANGED FROM (1) 8 IN ITEM 46 TO (2) 8 IN ITEM 46 TO (3) 8 IN ITEM 46 TO (4) 8 IN ITEM 46 TO (5) 8 IN ITEM 46 TO (6) 8 IN ITEM 46 TO (7) 8 IN ITEM 46 TO (8) 8 IN ITEM 46 TO (9) 8 IN ITEM 46 TO (10) 8 IN ITEM 46 TO (11) 8 IN ITEM 46 TO (12) 8 IN ITEM 46 TO (13) 8 IN ITEM 46 TO (14) 8 IN ITEM 46 TO (15) 8 IN ITEM 46 TO (16) 8 IN ITEM 46 TO (17) 8 IN ITEM 46 TO (18) 8 IN ITEM 46 TO (19) 8 IN ITEM 46 TO (20) 8 IN ITEM 46 TO (21) 8 IN ITEM 46 TO (22) 8 IN ITEM 46 TO (23) 8 IN ITEM 46 TO (24) 8 IN ITEM 46 TO (25) 8 IN ITEM 46 TO (26) 8 IN ITEM 46 TO (27) 8 IN ITEM 46 TO (28) 8 IN ITEM 46 TO (29) 8 IN ITEM 46 TO (30) 8 IN ITEM 46 TO (31) 8 IN ITEM 46 TO (32) 8 IN ITEM 46 TO (33) 8 IN ITEM 46 TO (34) 8 IN ITEM 46 TO (35) 8 IN ITEM 46 TO (36) 8 IN ITEM 46 TO (37) 8 IN ITEM 46 TO (38) 8 IN ITEM 46 TO (39) 8 IN ITEM 46 TO (40) 8 IN ITEM 46 TO (41) AND 42 OF -5001 LM WERE ON -0001 LM (2) GENERATED -5001 LM (3) ADDED IT 46 TO -0001 LM (4) ADDED NOTE 22 (5) ADDED PA BLOCK (6) UPDATED REV LEVEL BLOCK
B			CHANGED FROM (1) 8 IN ITEM 46 TO (2) 8 IN ITEM 46 TO (3) 8 IN ITEM 46 TO (4) 8 IN ITEM 46 TO (5) 8 IN ITEM 46 TO (6) 8 IN ITEM 46 TO (7) 8 IN ITEM 46 TO (8) 8 IN ITEM 46 TO (9) 8 IN ITEM 46 TO (10) 8 IN ITEM 46 TO (11) 8 IN ITEM 46 TO (12) 8 IN ITEM 46 TO (13) 8 IN ITEM 46 TO (14) 8 IN ITEM 46 TO (15) 8 IN ITEM 46 TO (16) 8 IN ITEM 46 TO (17) 8 IN ITEM 46 TO (18) 8 IN ITEM 46 TO (19) 8 IN ITEM 46 TO (20) 8 IN ITEM 46 TO (21) 8 IN ITEM 46 TO (22) 8 IN ITEM 46 TO (23) 8 IN ITEM 46 TO (24) 8 IN ITEM 46 TO (25) 8 IN ITEM 46 TO (26) 8 IN ITEM 46 TO (27) 8 IN ITEM 46 TO (28) 8 IN ITEM 46 TO (29) 8 IN ITEM 46 TO (30) 8 IN ITEM 46 TO (31) 8 IN ITEM 46 TO (32) 8 IN ITEM 46 TO (33) 8 IN ITEM 46 TO (34) 8 IN ITEM 46 TO (35) 8 IN ITEM 46 TO (36) 8 IN ITEM 46 TO (37) 8 IN ITEM 46 TO (38) 8 IN ITEM 46 TO (39) 8 IN ITEM 46 TO (40) 8 IN ITEM 46 TO (41) AND 42 OF -5001 LM WERE ON -0001 LM (2) GENERATED -5001 LM (3) ADDED IT 46 TO -0001 LM (4) ADDED NOTE 22 (5) ADDED PA BLOCK (6) UPDATED REV LEVEL BLOCK
C			CHANGED FROM (1) 8 IN ITEM 46 TO (2) 8 IN ITEM 46 TO (3) 8 IN ITEM 46 TO (4) 8 IN ITEM 46 TO (5) 8 IN ITEM 46 TO (6) 8 IN ITEM 46 TO (7) 8 IN ITEM 46 TO (8) 8 IN ITEM 46 TO (9) 8 IN ITEM 46 TO (10) 8 IN ITEM 46 TO (11) 8 IN ITEM 46 TO (12) 8 IN ITEM 46 TO (13) 8 IN ITEM 46 TO (14) 8 IN ITEM 46 TO (15) 8 IN ITEM 46 TO (16) 8 IN ITEM 46 TO (17) 8 IN ITEM 46 TO (18) 8 IN ITEM 46 TO (19) 8 IN ITEM 46 TO (20) 8 IN ITEM 46 TO (21) 8 IN ITEM 46 TO (22) 8 IN ITEM 46 TO (23) 8 IN ITEM 46 TO (24) 8 IN ITEM 46 TO (25) 8 IN ITEM 46 TO (26) 8 IN ITEM 46 TO (27) 8 IN ITEM 46 TO (28) 8 IN ITEM 46 TO (29) 8 IN ITEM 46 TO (30) 8 IN ITEM 46 TO (31) 8 IN ITEM 46 TO (32) 8 IN ITEM 46 TO (33) 8 IN ITEM 46 TO (34) 8 IN ITEM 46 TO (35) 8 IN ITEM 46 TO (36) 8 IN ITEM 46 TO (37) 8 IN ITEM 46 TO (38) 8 IN ITEM 46 TO (39) 8 IN ITEM 46 TO (40) 8 IN ITEM 46 TO (41) AND 42 OF -5001 LM WERE ON -0001 LM (2) GENERATED -5001 LM (3) ADDED IT 46 TO -0001 LM (4) ADDED NOTE 22 (5) ADDED PA BLOCK (6) UPDATED REV LEVEL BLOCK
D			CHANGED FROM (1) 8 IN ITEM 46 TO (2) 8 IN ITEM 46 TO (3) 8 IN ITEM 46 TO (4) 8 IN ITEM 46 TO (5) 8 IN ITEM 46 TO (6) 8 IN ITEM 46 TO (7) 8 IN ITEM 46 TO (8) 8 IN ITEM 46 TO (9) 8 IN ITEM 46 TO (10) 8 IN ITEM 46 TO (11) 8 IN ITEM 46 TO (12) 8 IN ITEM 46 TO (13) 8 IN ITEM 46 TO (14) 8 IN ITEM 46 TO (15) 8 IN ITEM 46 TO (16) 8 IN ITEM 46 TO (17) 8 IN ITEM 46 TO (18) 8 IN ITEM 46 TO (19) 8 IN ITEM 46 TO (20) 8 IN ITEM 46 TO (21) 8 IN ITEM 46 TO (22) 8 IN ITEM 46 TO (23) 8 IN ITEM 46 TO (24) 8 IN ITEM 46 TO (25) 8 IN ITEM 46 TO (26) 8 IN ITEM 46 TO (27) 8 IN ITEM 46 TO (28) 8 IN ITEM 46 TO (29) 8 IN ITEM 46 TO (30) 8 IN ITEM 46 TO (31) 8 IN ITEM 46 TO (32) 8 IN ITEM 46 TO (33) 8 IN ITEM 46 TO (34) 8 IN ITEM 46 TO (35) 8 IN ITEM 46 TO (36) 8 IN ITEM 46 TO (37) 8 IN ITEM 46 TO (38) 8 IN ITEM 46 TO (39) 8 IN ITEM 46 TO (40) 8 IN ITEM 46 TO (41) AND 42 OF -5001 LM WERE ON -0001 LM (2) GENERATED -5001 LM (3) ADDED IT 46 TO -0001 LM (4) ADDED NOTE 22 (5) ADDED PA BLOCK (6) UPDATED REV LEVEL BLOCK
E			CHANGED FROM (1) 8 IN ITEM 46 TO (2) 8 IN ITEM 46 TO (3) 8 IN ITEM 46 TO (4) 8 IN ITEM 46 TO (5) 8 IN ITEM 46 TO (6) 8 IN ITEM 46 TO (7) 8 IN ITEM 46 TO (8) 8 IN ITEM 46 TO (9) 8 IN ITEM 46 TO (10) 8 IN ITEM 46 TO (11) 8 IN ITEM 46 TO (12) 8 IN ITEM 46 TO (13) 8 IN ITEM 46 TO (14) 8 IN ITEM 46 TO (15) 8 IN ITEM 46 TO (16) 8 IN ITEM 46 TO (17) 8 IN ITEM 46 TO (18) 8 IN ITEM 46 TO (19) 8 IN ITEM 46 TO (20) 8 IN ITEM 46 TO (21) 8 IN ITEM 46 TO (22) 8 IN ITEM 46 TO (23) 8 IN ITEM 46 TO (24) 8 IN ITEM 46 TO (25) 8 IN ITEM 46 TO (26) 8 IN ITEM 46 TO (27) 8 IN ITEM 46 TO (28) 8 IN ITEM 46 TO (29) 8 IN ITEM 46 TO (30) 8 IN ITEM 46 TO (31) 8 IN ITEM 46 TO (32) 8 IN ITEM 46 TO (33) 8 IN ITEM 46 TO (34) 8 IN ITEM 46 TO (35) 8 IN ITEM 46 TO (36) 8 IN ITEM 46 TO (37) 8 IN ITEM 46 TO (38) 8 IN ITEM 46 TO (39) 8 IN ITEM 46 TO (40) 8 IN ITEM 46 TO (41) AND 42 OF -5001 LM WERE ON -0001 LM (2) GENERATED -5001 LM (3) ADDED IT 46 TO -0001 LM (4) ADDED NOTE 22 (5) ADDED PA BLOCK (6) UPDATED REV LEVEL BLOCK
F			CHANGED FROM (1) 8 IN ITEM 46 TO (2) 8 IN ITEM 46 TO (3) 8 IN ITEM 46 TO (4) 8 IN ITEM 46 TO (5) 8 IN ITEM 46 TO (6) 8 IN ITEM 46 TO (7) 8 IN ITEM 46 TO (8) 8 IN ITEM 46 TO (9) 8 IN ITEM 46 TO (10) 8 IN ITEM 46 TO (11) 8 IN ITEM 46 TO (12) 8 IN ITEM 46 TO (13) 8 IN ITEM 46 TO (14) 8 IN ITEM 46 TO (15) 8 IN ITEM 46 TO (16) 8 IN ITEM 46 TO (17) 8 IN ITEM 46 TO (18) 8 IN ITEM 46 TO (19) 8 IN ITEM 46 TO (20) 8 IN ITEM 46 TO (21) 8 IN ITEM 46 TO (22) 8 IN ITEM 46 TO (23) 8 IN ITEM 46 TO (24) 8 IN ITEM 46 TO (25) 8 IN ITEM 46 TO (26) 8 IN ITEM 46 TO (27) 8 IN ITEM 46 TO (28) 8 IN ITEM 46 TO (29) 8 IN ITEM 46 TO (30) 8 IN ITEM 46 TO (31) 8 IN ITEM 46 TO (32) 8 IN ITEM 46 TO (33) 8 IN ITEM 46 TO (34) 8 IN ITEM 46 TO (35) 8 IN ITEM 46 TO (36) 8 IN ITEM 46 TO (37) 8 IN ITEM 46 TO (38) 8 IN ITEM 46 TO (39) 8 IN ITEM 46 TO (40) 8 IN ITEM 46 TO (41) AND 42 OF -5001 LM WERE ON -0001 LM (2) GENERATED -5001 LM (3) ADDED IT 46 TO -0001 LM (4) ADDED NOTE 22 (5) ADDED PA BLOCK (6) UPDATED REV LEVEL BLOCK



2265365-5001	AUTO INSERTED PARTS LIST FOR 2265365-1
2265365-0001	PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS
PART NUMBER	DESCRIPTION

TEST PROCEDURE	2265365-5001	2265365-0001	2265365-0002	2265365-0003	2265365-0004	2265365-0005	2265365-0006	2265365-0007
TEST PROCEDURE	2265365-5001	2265365-0001	2265365-0002	2265365-0003	2265365-0004	2265365-0005	2265365-0006	2265365-0007

MARK	PROCESS	CLASSIFICATION	ADDITIONAL	NOTES
4	00-07	712	CLR BLK, TYPE 6	
3	00-02	21	NET .09, CLR BLK	
2	27-01	00		
1	24-02	00		

ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	QUANTITY	REMARKS									
2265270	7057	PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS	1										
<table border="1"> <thead> <tr> <th>ITEM NO.</th> <th>DESCRIPTION</th> <th>QTY.</th> </tr> </thead> <tbody> <tr> <td>2265270</td> <td>7057</td> <td>PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS</td> </tr> <tr> <td>2265214</td> <td>2265365</td> <td></td> </tr> </tbody> </table>					ITEM NO.	DESCRIPTION	QTY.	2265270	7057	PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS	2265214	2265365	
ITEM NO.	DESCRIPTION	QTY.											
2265270	7057	PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS											
2265214	2265365												

TEXAS INSTRUMENTS INCORPORATED		DATE 12/06/79		LIST OF MATERIAL		PAGE 1 of 3		PART NUMBER LM2265365-0001		REV G		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00001.000	FA		2265474-0001	STANDOFF, LED, 4 POSITION, MOLDEN							
0003	00015.000	FA		0946646-0001	STANDOFF, MTG, LFD							
0004	00074.000	FA		0539480-0003	ELECTRONIC DEVICE-TIL 220							
0004A					CR2 CR3 CR4 CR5 CR6 CR7							
0004B					CR8 CR9 CR10 CR11 CR12 CR13							
0004C					CR14 CR15 CR16 CR17 CR18							
0004D					CR19 CR20 CR21 CR22 CR23							
0004E					CR24							
0005	00001.000	FA		0972461-0001	DISC, SOUND-PISTON-ELECT 3700 +/- 600 HZ	SEF	- TI DRAWING					
0005A					S01							
0006	00007.000	FA		0996199-0010	HEADER, SGL ROW, ROW, RIGHT ANGLE, 10 POS	027576-65571-110						
0006A					P1 P2							
0007	00001.000	FA		2265394-0001	KEYSWITCH CABLE, PROGRAMMER'S PANEL							
0008	00001.000	FA		0945219-0002	CABLE ASSY, 990 PROGRAMMER, 3 FT							
0008A					P3							
0009	00007.000	FA		0R00573-0001	TRANSISTOR A572007 PNP SILICON	TI-	-A572907					
0009A					Q2 Q3							
0010	00007.000	FA		0972057-0001	TRANSISTOR-A572222 NPN SILICON	TI-	-A572222					
0010A					Q1							
0012	REF	FA		2265367-9901	LOGIC DIAGRAM, PROG FRONT PNL, 17 SLOT							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
R. Pak		12/13/79	D. J. ...	12-13-79	PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS							
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
								LM2265365-0001	G			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/06/79		LIST OF MATERIAL		PAGE 2 of 3		PART NUMBER LM2265365-0001		REV G		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0013	REF	FA		2265368-9901	TEST PROC, PROG FRONT PANEL, 17 SLOT							
0014	REF	FA		2265369-9901	SPEC, PROGRAMMER FRONT PANEL, 17 SLOT							
0015	00001.000	FA		0222222-7150	NETWORK SN74LS0N							
0015A					U19							
0029	00001.000	FA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25					
0029A					R12							
0037	00017.000	FA		0972946-0045	RES FIX 150 OHM 5% .25 W CARBON FILM	ROH	- R-25					
0037A					R7 R8 R13 R22 R23 R24 R25							
0037B					R26 R27 R28 R29 R30 R31 R32							
0037C					R33 R34 R35							
0038	00001.000	FA		0972946-0059	RES FIX 560 OHM 5% .25 W CARBON FILM	ROH	- R-25					
0038A					R11							
0039	00001.000	FA		0972946-0049	RES FIX 220 OHM 5% .25 W CARBON FILM	ROH	- R-25					
0039A					R15							
0342	00007.000	FA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0042A					C3 C4 C5 C6 C7 C14 C15							
0043	00001.000	FA		0983910-0001	SUPPORT, TONE GENERATOR							
0044	00001.000	TU		0417559-0001	SILICONE RUBBER (RTV) DOW 3140	SEF	- TI DRAWING					
0045	00001.000	PT		0417200-0004	PRIMER, SILICONE RUBBER-RED	CNR	- 1709					
0046	00001.000	FA		2265365-5001	AUTO INSERTED PARTS LIST FOR 2265365-1							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
R. Pak		12/13/79			PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS							
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
								LM2265365-0001	G			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/06/79		LIST OF MATERIAL		PAGE 3 of 3		PART NUMBER LM2265365-0001		REV G		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0047	00000.166	FT		0972146-0007	TUBING, .020THK X 3/32 IN SHRINK, .093 ID	003890-P0-135-125C						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
					PROGRAMMER FRONT PANEL, 17 SLOT CHASSIS							
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
								LM2265365-0001	G			

TEXAS INSTRUMENTS INCORPORATED		DATE 12/06/79		LIST OF MATERIAL		PAGE 1 of 3		PART NUMBER LM2265365-5001		REV G		
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	FA		2265366-0001	PWB, PROGRAMMER FRONT PANEL, 17 SLOT CHAS							
0016	00007.000	FA		0972900-7410	NETWORK SN74LS10N							
0016A					U12 U20							
0017	00002.000	FA		0972688-0001	NETWORK SN74LS164N							
0017A					U6 U10							
0018	00001.000	FA		0972783-0001	NETWORK, SN74LS42N BCD/DEC							
0018A					U15							
0019	00001.000	FA		0972900-7474	NETWORK SN74LS74N							
0019A					U16							
0020	00001.000	FA		0219402-7138	NETWORK SN74LS198N							
0020A					U17							
0021	00002.000	FA		0972159-7265	NETWORK, SN74265N							
0021A					U8 U14							
0022	00007.000	FA		0972188-0001	NETWORK, NE555N, MONOLITHIC TIMING, LINEAR	ST	-NE555V					
0022A					U4 U9							
0024	00001.000	FA		0972141-0057	NETWORK, PFS, 4.7 K OHM 2% 14 PIN DIP	REC	- 899-1-R4.7K					
0024A					U1							
0025	00001.000	FA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N					
0025A					U3							
0026	00001.000	FA		0222222-7400	NETWORK SN7400N							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
R. Pak		12/13/79			AUTO INSERTED PARTS LIST FOR 2265365-1							
APP'D. ENG.		DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV			
								LM2265365-5001	G			

17-Slot Chassis Programmer Panel

TEXAS INSTRUMENTS INCORPORATED		DATE 12/06/79		LIST OF MATERIAL		PAGE 2 of 3		PART NUMBER LM2265365-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0026A					U7						
0027	00003.000	FA		022222-7407	NETWORK-SN7407N	TI- -SN7407N					
0027A					U5 U11 U13						
0028	00001.000	FA		022222-7430	NETWORK SN7430N	-SN7430N					
0029A					U18						
0029	00002.000	FA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RDH - R-25					
0029A					R1 R19						
0030	00002.000	FA		0972976-0171	RES FIX COMP 1/4 W 3.3 MEGOHM 5%	QPL -RC07G335J5					
0030A					R2 R14						
0031	00001.000	FA		0972946-0039	RES FIX 82.0 OHMS 5% .25 W CARBON FILM	RDH - R-25					
0031A					R3						
0032	00007.000	FA		0972946-0045	RES FIX 150 OHM 5% .25 W CARBON FILM	RDH - R-25					
0032A					R4 R5 R6 R9 R10 R20 R21						
0033	00001.000	FA		0972946-0059	RES FIX 560 OHM 5% .25 W CARBON FILM	RDH - R-25					
0033A					R18						
0036	00001.000	FA		0972946-0109	RES FIX 68 K OHM 5% .25 W CARBON FILM	RDH - R-25					
0036A					R16						
0037	00001.000	FA		0972946-0091	RES FIX 39.0 OHM 5% .25 W CARBON FILM	RDH - R-25					
0037A					R17						
0038	00001.000	FA		0972757-0017	CAP FIX CER 2200 10% 50V	007115-CAC02X7R222K10					
DRAFTSMAN _____ DATE _____ CDR. DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ AUTO INSERTED PARTS LIST FOR 2265365-1 APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER: LM2265365-5001 REV: G											

TEXAS INSTRUMENTS INCORPORATED		DATE 12/06/79		LIST OF MATERIAL		PAGE 3 of 3		PART NUMBER LM2265365-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0038A					C1						
0039	00003.000	FA		0972757-0025	CAP FIX CER .01MF 10% 50V						
0039A					C2 C10 C11						
0040	00001.000	FA		0972924-0006	CAP FIX TANT SOLID 3% MFD 10 X 10 VOL	QPL -H39003/1-2259					
0040A					C8						
0041	00001.000	FA		0972757-0017	CAP FIX CER 2200 10% 50V	007115-CAC02X7R222K10					
0041A					C12						
DRAFTSMAN _____ DATE _____ CDR. DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ AUTO INSERTED PARTS LIST FOR 2265365-1 APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER: LM2265365-5001 REV: G											

NOTES: UNLESS OTHERWISE SPECIFIED:

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



00 AND 07 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U14 AND U18 = REFERENCE DESIGNATOR

5. ALL DISCRETE RESISTORS ARE 1/4 WATT, 5%.
6. ALL IC RESISTORS ARE 1/8 WATT, 2%.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN453333 (E) R. Paul	12-7-79	[Signature]

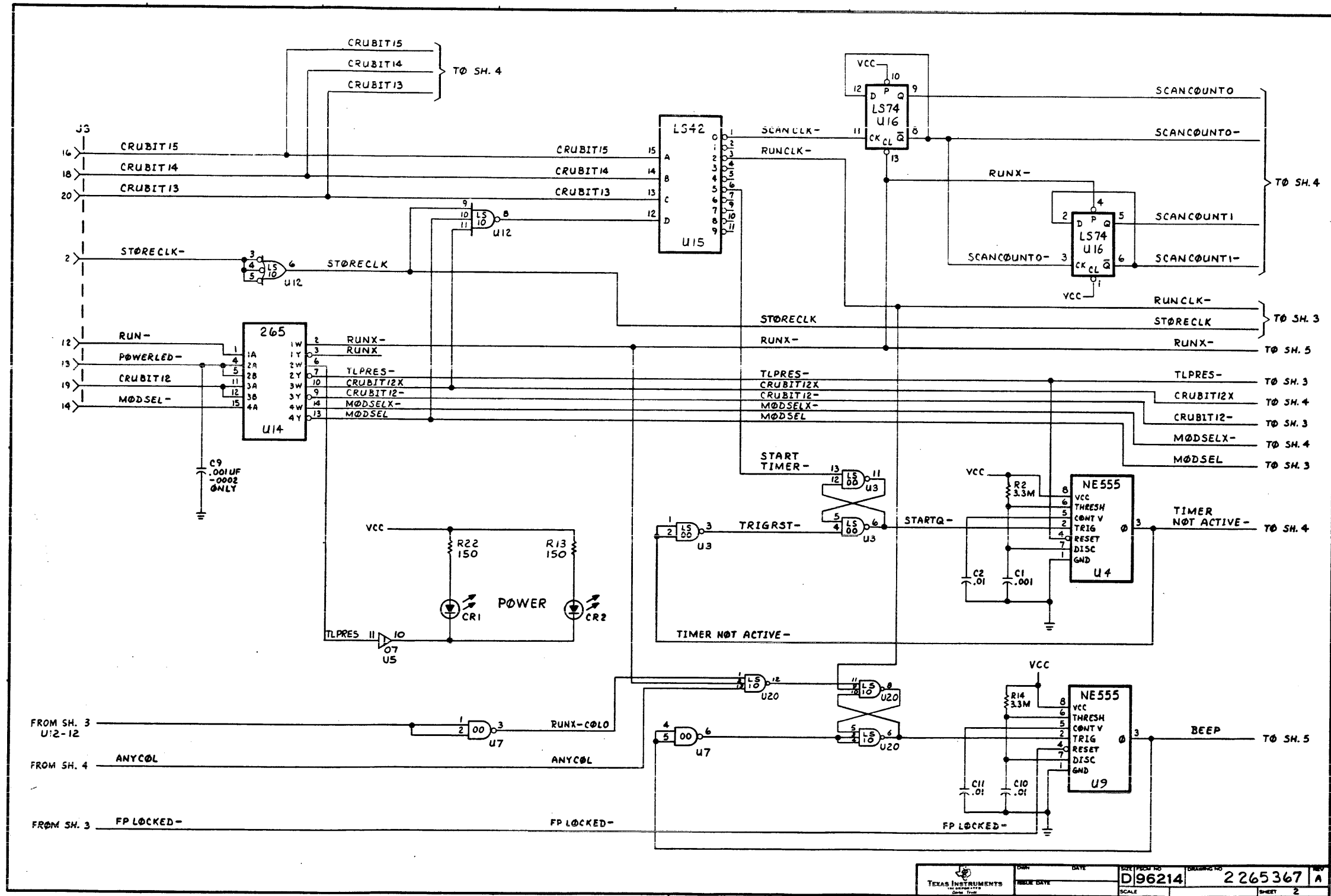
HIGHEST REFERENCE DESIGNATOR USED			
C15	CR25	E8	KB2
Q3	R35	SD1	U20
J3	P2		

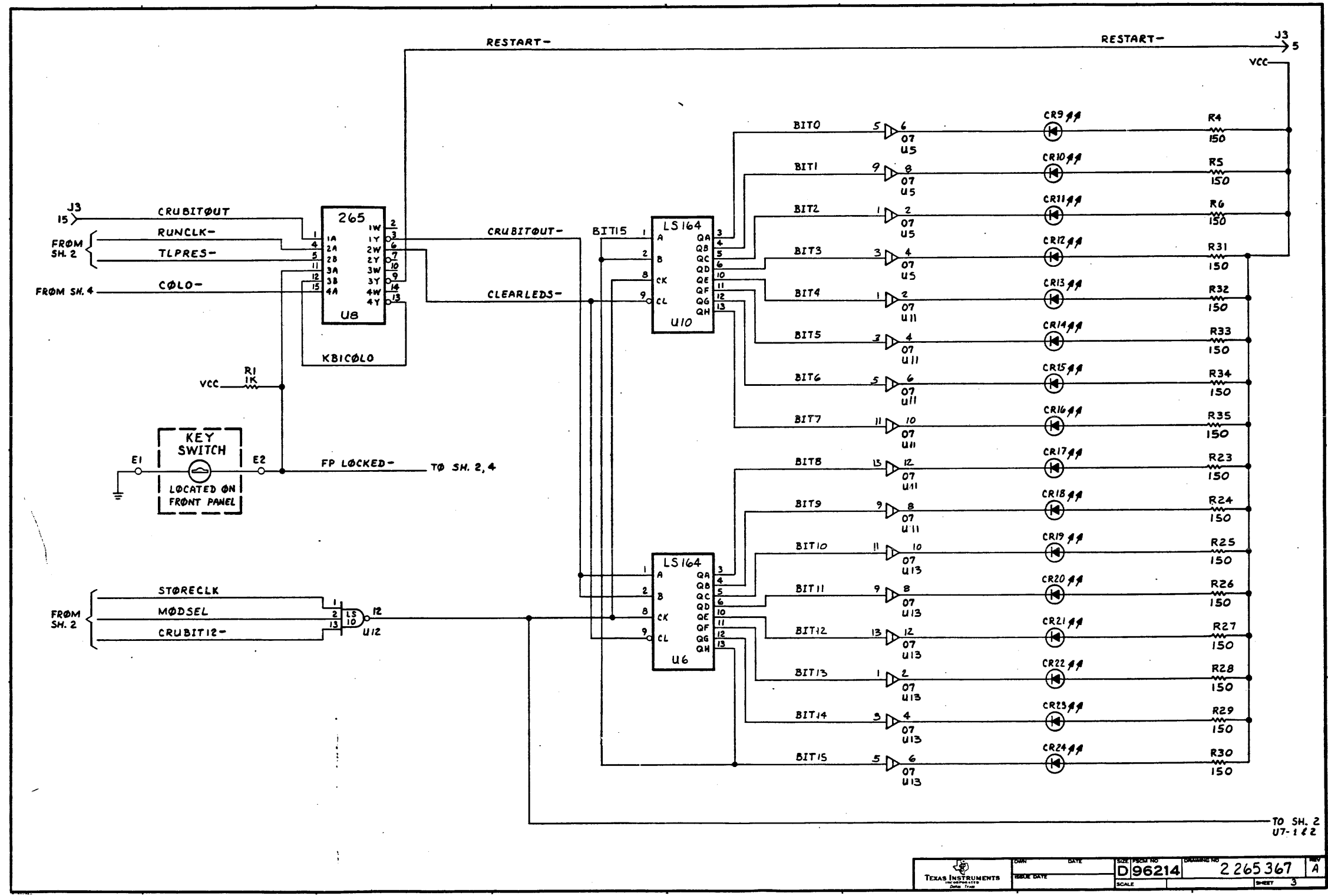
REV STATUS	REV	A	A	A	A	A
OF SHEETS	SH.	1	2	3	4	5

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL	NOTES

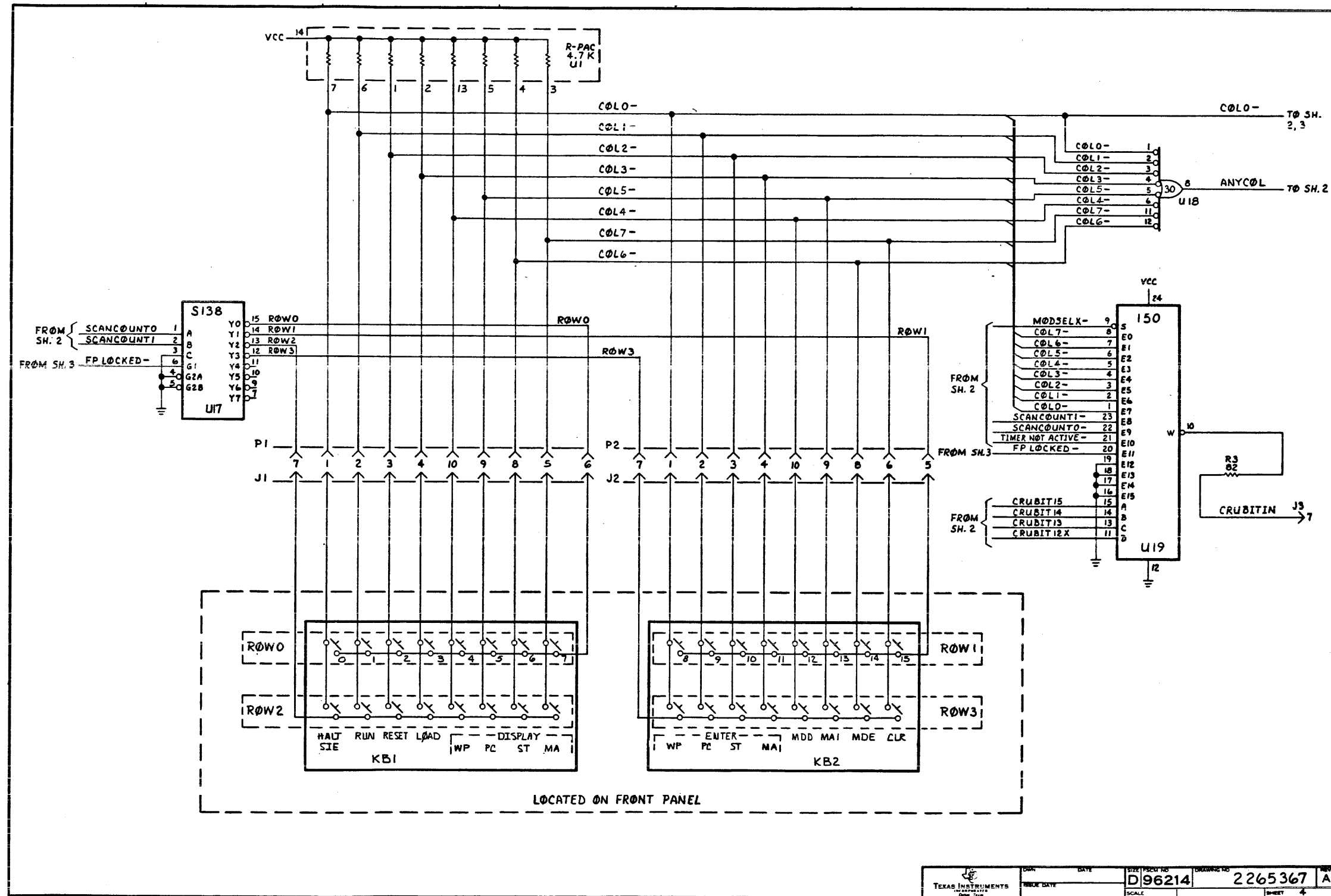
PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729487

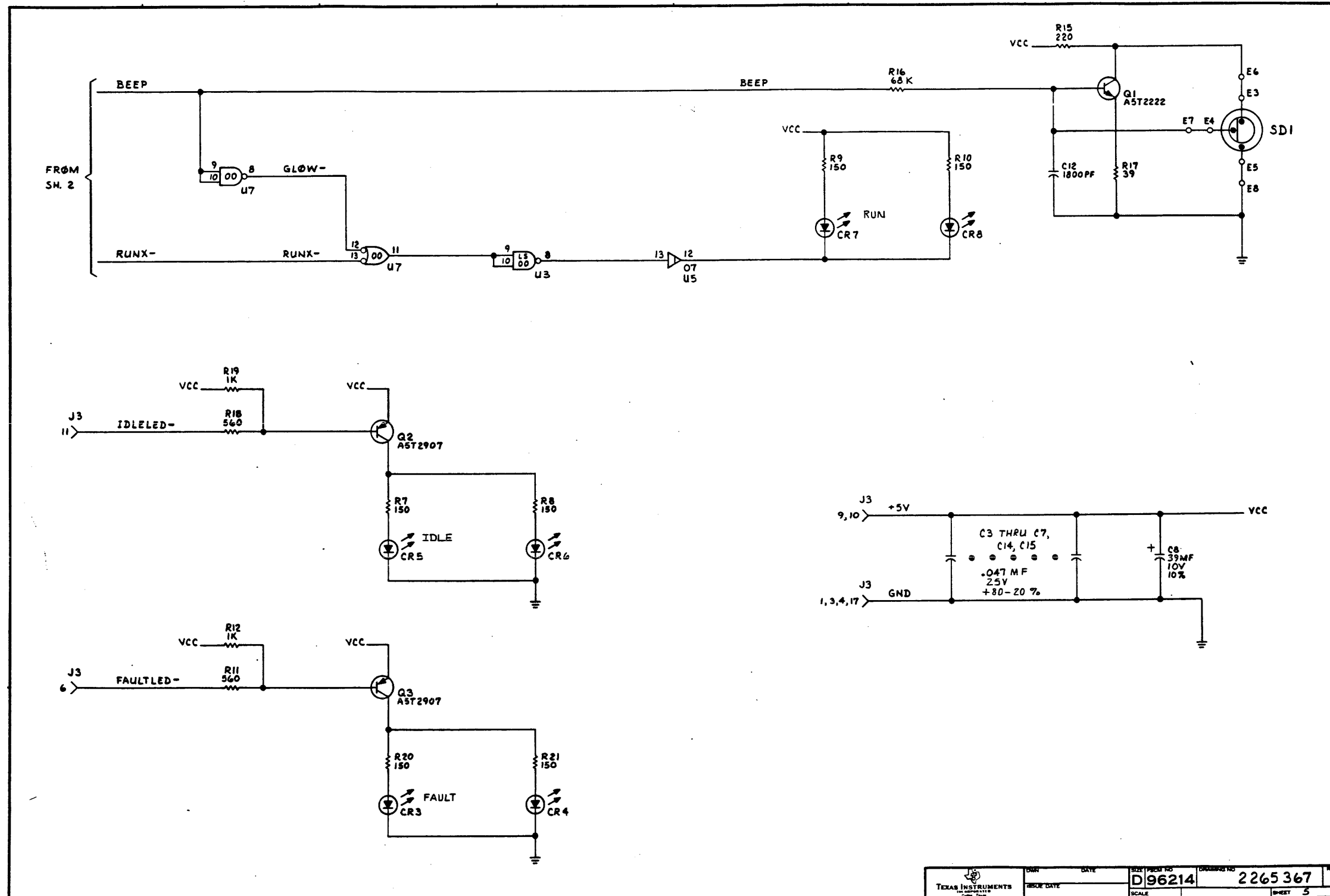
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
			UNLESS OTHERWISE SPECIFIED * DIMENSIONS ARE IN INCHES * TOLERANCES — ANGLES ±1° 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 * INTERPRET DRAWING PER MIL-D-1000 * REMOVE ALL BURRS AND SHARP EDGES * CONCENTRICITY MACHINED DIAMETERS .010 P/M * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * PARENTHEetical INFO FOR REF ONLY		
			HOLE TOLERANCE .013 - .004 .128 - .005 .251 - .008 THRU - .001 THRU - .001 THRU - .001 .501 - .008 .751 - .010 1.001 - .012 THRU - .001 THRU - .001 THRU - .001		
2245365	7057		LOGIC DIAGRAM, DETAILED, PROGRAMMER'S FRONT PANEL		
			DESIGNED BY: C. KEELER 3-1-79 CHECKED BY: C. KEELER 9-27-79 ENGR: [Signature] 9/28/79 DATE: 9/28/79		
			SCALE: NONE		
			SIZE: PSCU NO. D96214		
			DRWING NO. 2265367		
			SCALE: NONE		
			SHEET 1 OF 3		





DATE	DATE	SIZE	PAPER NO.	DRAWING NO.	REV.
DATE	DATE	D96214		2265367	A
SCALE					SHEET 3





TEXAS INSTRUMENTS	DATE	REV. NO.	2265367
DATE	SCALE	SHEET 5	
D96214		2265367	

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	PL ITEM NO.
1					FRT PUL-4	A452-COMM	DRN WIRE	3
2					FRT PUL-5	A452-NO	DRN WIRE	3
3					FRT PUL-6	FLT LED-FLAT (CATHODE)	FLT WIRE	3
4	FLAT CABLE ASSY				FRT PUL-9	FLT LED-ROUND (ANODE)	DRN WIRE	3
5					FRT PUL-10	PWR LED-ROUND (ANODE)	DRN WIRE	3
6					FRT PUL-13	PWR LED-FLAT (CATHODE)	DRN WIRE	3

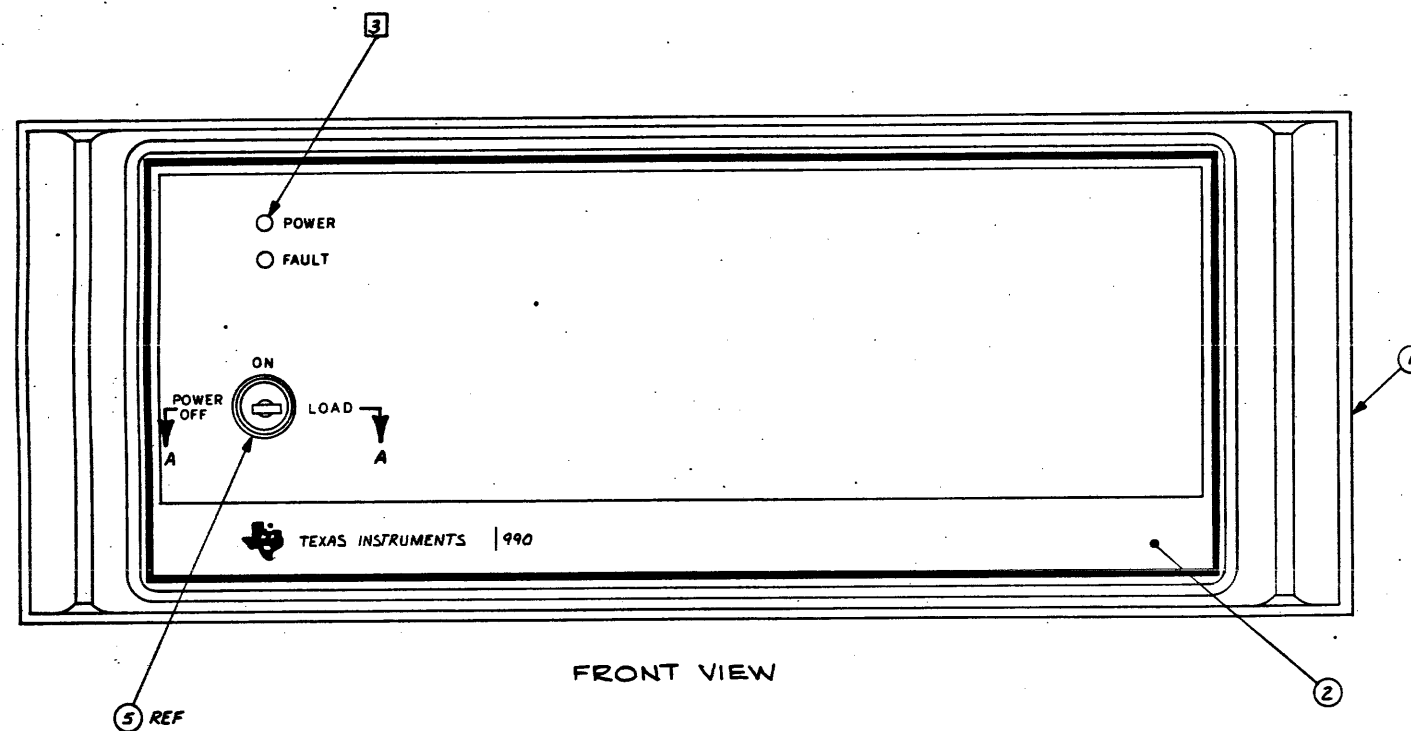
- NOTES:**
- REMOVE KEY FROM LOCK BARREL WHILE INSTALLING CAM. THIS PROCEDURE INSURES PROPER ALIGNMENT OF TUMBLERS.
 - INSTALL ITEM 14 WITH FLAT SIDE TOWARD TOP OF UNIT
 - USE ALIGNMENT FIXTURE TO ALIGN ITEM 2 WITH ITEM 1, IF NECESSARY.
 - INSTALL ITEM 8 IN CURVED SPRING RETAINER PRIOR TO INSTALLATION OF ITEM 4
 - BEND LEADS ON ITEM 14 APPROXIMATELY 90° AS SHOWN
 - WHEN CHICAGO LOCK, ITEM 5, IS USED, BREAK OFF LOCATING TABS IN ITEM 4
 - TIGHTEN FIRST NUT AGAINST PANEL. TIGHTEN SECOND NUT AGAINST FIRST NUT WITHOUT TURNING FIRST NUT
 - APPLY ITEM 20 TO THE CYLINDRICAL BEARING SURFACE AND TUMBLERS OF THE PLUG PORTION OF ITEM 5
 - INSERT KEY INTO ITEM 5 AND ROTATE KEY CCW TO POWER OFF POSITION. ADJUST SWITCHES, ITEM 9 AND 10 SO THAT SWITCH TABS ARE CLOSE AS POSSIBLE TO ITEM 4 (LOWEST RADIAL CAM SURFACE) WITHOUT TOUCHING
 - APPLY ITEM 21 TO ITEM 14 TWO PLACES
 - APPLY ITEM (20) TO TIP AND SIDES OF CAM DETENT PIN ITEM (6)
 - NYLON SEPARATOR AND SCREWS ARE PART OF ITEM 24

ZONE/LTR	REVISIONS	DESCRIPTION	DATE	APPROVED
A	CN407526 (C) 7A 8/11/76 (1) ADDED NOTE B (2) ITEM 20 (2) SH 3 ADDED FLAG B (3) ITEMS 7 & 8 WERE 419763-0037 & 419763-0016		5-16-76	J.R.P.
B	CN407752 (B) D.R. (1) WIRE NO 2, FINISH STATION WAS A452-NC (2) SH 3, RELOCATED WIRE ON PICTORIAL OF A452		5-17-76	J.R.P.
C	CN421429 (C) C. S. (1) REVISED PER EXT. ENGR CHANGES		2-2-77	J.R.P.
D	CN417897 (D) (1) ADDED VIEW H-H (2) LM ADDED ITEMS 22, 23 & 24 TO LM AND PICTORIAL (3) ITEM 9 WAS 972641-0001 & QTY WAS 1000 (4) ITEM 11 QTY WAS 4000		5-14-77	HD
E	CN417187 (E) C. S. (1) SH 1 ADDED FLAG NOTE 11 (2) ADDED NOTE 11 TO SEC B-B		4-14-77	J.R.P.
F	CN426381 (F) D.S. (1) SH 3, RELOCATED ITEM 22 (2) ADDED ITEMS 25 THRU 28 (3) REVISED VIEWING PLANE OF SECT BB		2-10-78	J.R.P.
G	CN441812 (G) B. B. (1) ON ECN 417897 REV. D CLASS OF CHANGE WAS D (2) ADDED -8001 ASSY. (3) ADDED ITEM 102 TO VIEW H-H, SH 3		9-19-78	J.R.P.
H	CN448450 (H) C. S. (1) IN 2-A-3, ADDED ITEM 29		5-22-78	E. D.
J	CN461388 (J) C. S. (1) ADDED ITEM 30 TO -0001 LM (2) ADDED ITEM 30 TO SECT B-B SH 3		1-9-80	J.R.P.
K	CN447406 (K) G. S. (1) ITEM 21 ON -0001 LM WAS QTY 1 EA		1-9-80	J.R.P.
L	CN453430 (L) C. S. (1) LM-1, DELETED ITEM 23 (2) NOTE 9 WAS --- TABS NEARLY TOUCH --- (--- SURFACE) ADDED NOTE 12 (3) SH 3 VIEW H-H BALLOON 24 WAS 23, ADDED NYLON SEPARATOR, 284 DELETED BALLOON 23		3-20-80	J.R.P.

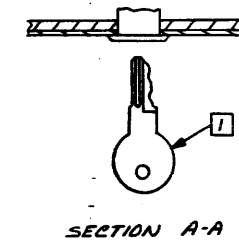
945030-8001	FRONT PANEL ASSEMBLY, OPERATOR 990
945030-0001	FRONT PANEL ASSEMBLY, OPERATOR 990
PART NO	DESCRIPTION

REV STATUS OF SHEETS	REV	L	* L	QTY REQ	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
	SH	1	2	3					

UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	HOLE TOLERANCE .013 - .004 THRU - .001 1.25 - .002 250 - .001 751 - .010 THRU - .001 1.000 - .001	251 - .008 THRU - .001 500 - .001 1.001 - .012 THRU - .001 2.000 - .001	34000 300 34000 750 NEXT ASSY USED ON APPLICATION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02	DATE 2/16/76 ENGR J. R. P. BY C. S. (1) 2/16/76 APPROVED J. R. P. DESIGN ACTIVITY RELEASE DATE 2/16/76	<p>TEXAS INSTRUMENTS Equipment Group Dallas, Texas</p> <p>FRONT PANEL ASSEMBLY, OPERATOR, 990</p>	<p>SIZE CODE IDENT NO DRAWING NO D 96214 945030</p> <p>SCALE 1/1</p> <p>SHEET 15-3</p>
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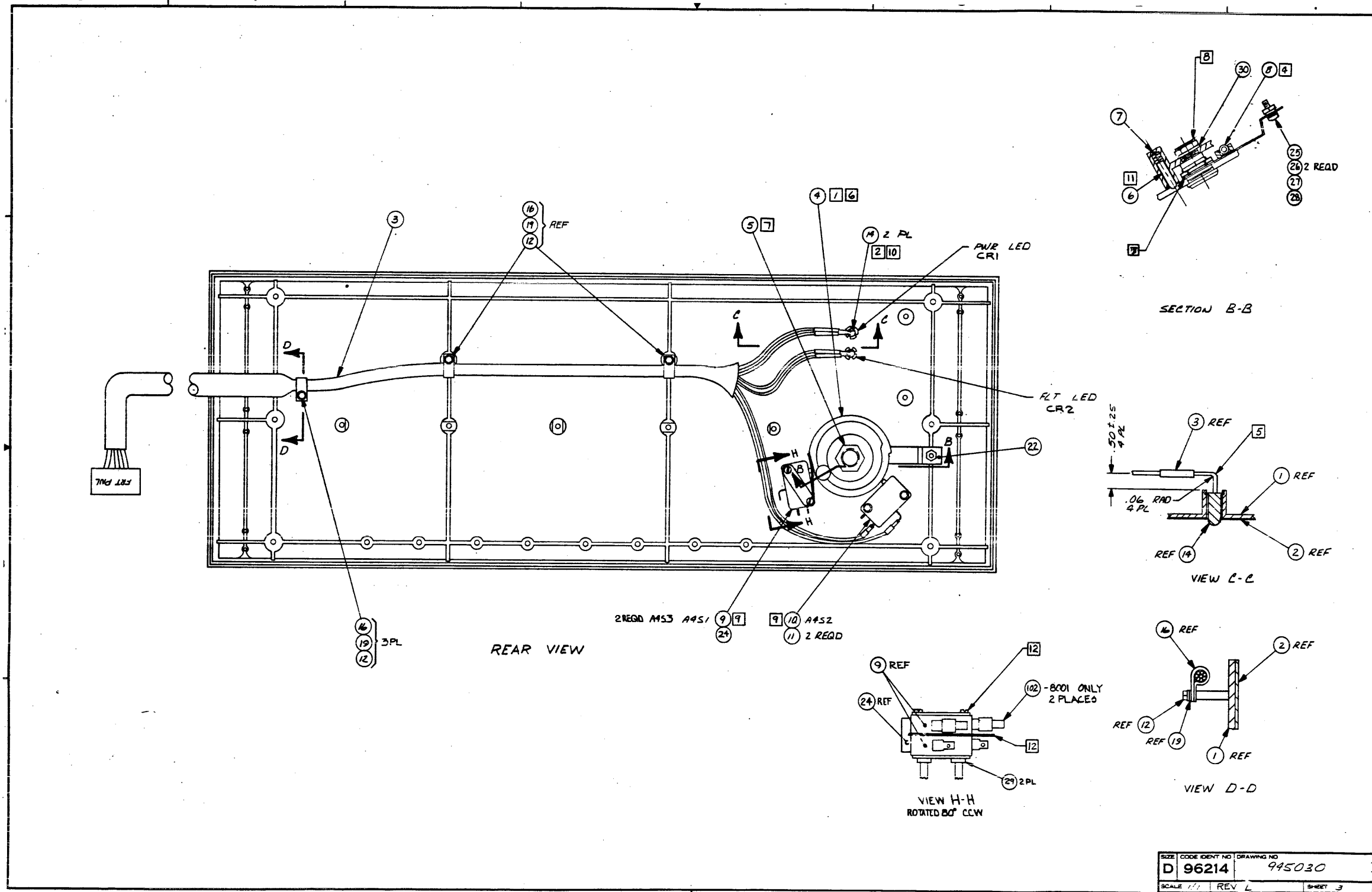


FRONT VIEW



SECTION A-A

SIZE	CODE IDENT NO	DRAWING NO
D	96214	945030
SCALE	///	SHEET 2



SIZE	CODE IDENT NO	DRAWING NO
D	96214	945030
SCALE	REV	SHEET
1/1	L	3

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945030-0001		REV L	
FRONT PANEL NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0945021-0001	FRONT PANEL, MOLDED, TIN, 990						
0002	00001.000	FA		0945031-0001	PLATE, ESCUTCHEON OVRFLAY, 1/0 EXP CHASSIS						
0003	00001.000	FA		0945032-0001	CABLE ASSY, OPERATOR FRONT PANEL, 990						
0004	00001.000	FA		0945037-0001	CAM, SWITCH						
0005	00001.000	FA		0972839-0001	CAM LOCK						
0006	00001.000	EA		0945232-0001	PIN, DETENT						
0007	00001.000	FA		0946753-0001	SPRING, UN-GROUND, .38L 5 COIL						
0008	00001.000	EA		0946753-0002	SPRING, UN-GROUND, 2.50 LONG						
0009	00002.000	FA		0996451-0001	SWITCH 15 AMP MINIATURE, SNAP-ACTION	001963-F3440AX					
0009A					A4S1 A4S3						
0010	00001.000	EA		0972841-0002	SWITCH, MINT, SNAP-ACTION SPDT, 0.1 AMP						
0010A					A4S2						
0011	00002.000	FA		0972679-0006	SCREW, PLASTITE, 2-28 X 5/8						
0012	00003.000	FA		0972683-0007	SCREW, 6-20X 5/8 TND FRM, SLOT HX MSR HD						
0014	00002.000	FA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0014A					A4CP1 A4CR2						
0015	REF	EA		0945033-9901	TEST PROCEDURE, OPERATOR FRONT PANEL, 990						
0016	00003.000	EA		0054967-0003	CLAMP, LOOP .180IA X .40L X .38W NYLON	BUR - HP-3N					
0019	00003.000	FA		0411027-0805	WASHER, FLAT, .156ID X .312 OD X .035THK						
0020	MR	FA		0417985-0001	GREASE, AIRCRAFT, GENL PPP WIDE TEMP RANGE						
DRAFTSMAN		DATE	CEO, DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FRONT PANEL ASSEMBLY, OPERATOR, 990			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506			
								PART NUMBER		REV	
								LM0945030-0001		L	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0945030-0001		REV L	
FRONT PANEL NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0021	AP	FA		0996069-0009	ADH, SOLID, THRMPLSTC 258 BAG ANAEROBIC	PERSAL-917-6502					
0022	00001.000	EA		0936388-0001	LUG, GROUNDING, FRONT PANEL						
0024	00001.000	FA		0996402-0001	ACTUATOR, SWITCH	091929-JV-91					
0025	00001.000	FA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CPES						
0026	00002.000	EA		0411027-0806	WASHER, #6 FLAT, CRES, .156 X .375 X .049	OPL - MS15795-806					
0027	00001.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CPES	OPL - MS35335-58					
0028	00001.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-2B HEX CPES	OPL - MS35649-264					
0029	00002.000	FA		0236378-1000	WASHER SHLD FIBRE .375ODX.140IDX.093 THK	SMI -2150					
0030	00001.000	EA		0410894-0044	LOCKWASHER 7/16 INTERNAL TOOTH CPES	SMA - 1722-01					
DRAFTSMAN		DATE	CEO, DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FRONT PANEL ASSEMBLY, OPERATOR, 990			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0945030-0001			
								PART NUMBER		REV	
								LM0945030-0001		L	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945030-8001		REV L	
FRONT PANEL NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101	00001.000	EA		0945030-0001	FRONT PANEL ASSY, OPERATOR, 990						
0102	00002.000	EA		0972171-0048	TERMINAL, RCPT-#22-18AWG .032TABS PUSH/ON AMP	-42599-4 STRIP					
0103	00001.000	FA		0239999-9983	SERVICE SPARES SYS TEST, .75 HRS.						
DRAFTSMAN		DATE	CEO, DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	FRONT PANEL ASSY, OPERATOR, 990			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0945030-8001			
								PART NUMBER		REV	
								LM0945030-8001		L	

Operator Panel Cable

WIRE NO	DESCRIPTION	LENGTH	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	ITEM NO
1	BRN	29.75	PI-4	ITEM 3		2
2	RED	AR	PI-5	ITEM 3		2
3	ORN	AR	PI-6	ITEM 4	(3)	2
4	BLU	AR	PI-9			2
5	VIO	AR	PI-10			2
6	BLK	AR	PI-13	ITEM 4	(3)	2

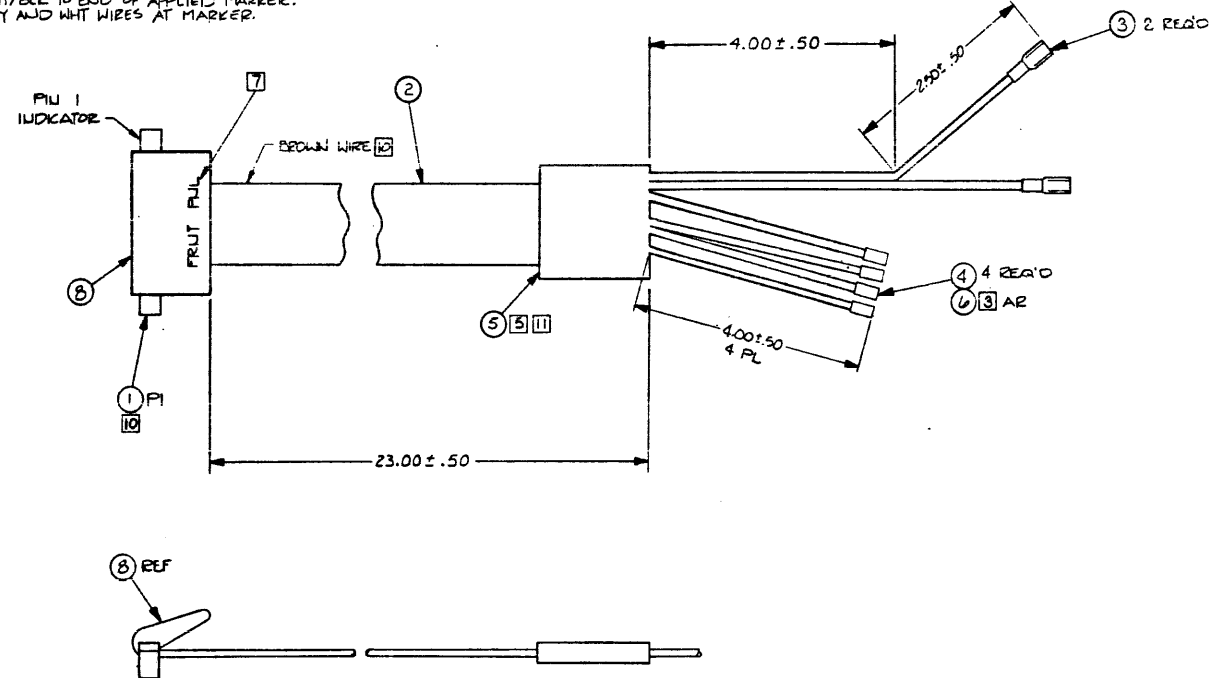
NOTES:

- 1 TRIM OFF EXCESS WIRES.
- 2 ALTERNATE PART NO. FOR ITEM 9 IS 972249-0001
- 3 CRIMP ITEM 4 ON WIRE. SHRINK ITEM 6 AROUND ITEM 4 AND .25 ±.13 INCH ONTO WIRE. NO MORE THAN .06 INCH OF THE FREE END OF ITEM 4 SHALL PROTRUDE FROM ITEM 6. HOWEVER, ITEM 6 SHALL NOT PROTRUDE BEYOND THE FREE END OF ITEM 4.
- 4 REMOVE INSULATION BAKKEL FROM ITEM 3 IN ITEM 4 AND INTO ITEM 3 AND SOLDER PER PROCESS 1.
- 5 MARK PER 2265010, FOURTH LINE BLANK
- 6 STRIPED WIRE IS WIRE NO. 1 WIRES ARE NUMBERED SEQUENTIALLY ACROSS THE CABLE FROM 1 TO 20.
- 7 MARK PER PROCESS 1.
- 8 CRIMP ITEM 1 (PI) ON CABLE.
- 9 ITEM 101 00-0001 LM CONSISTS OF BULK CABLE ASSY MAT'L (NOTES CONT EOB)

ZONE	LTR	REVISIONS DESCRIPTION	DATE	APPROVED
	A	CN 412242 (C) REVISED PER EXTENSIVE ENGINEERING CHANGES	11/21/76	[Signature]
C4	B	CHANGE (C) 1-1-77 ADDED BLANK FOR ITEM 7 (2) DELETED NOTE 2 (C) ADDED IN ITEM 7 TO LM	2-1-77	[Signature]
	C	CN 415415 (C) 7/1/77 BAKKEL MARKER DIM. NA 1355 ±.25	9-22-77	[Signature]
	D	CN 42704 (C) DIM. 1.06 ILM 11" 3 BY 1/2 77 2-278	1/10/77	
	E	CN 44646+101A (C) WIRE LIST WIRE NO. 1 START STATION, CABLE WIRE WAS NO. 1	9-15-78	[Signature]
	F	CN 44766 (C) (C) CREATED - 0001 LM (2) ADDED ITEM 01-0-0001 LM (3) ADDED NOTE 9 (4) ADDED IN BLOCK	9-6-79	[Signature]
	G	CN 44749 (C) (C) REVISED PER EXTENSIVE ENGR CHANGES	9-6-79	[Signature]

NOTES (CONT)

- 10 WIRE NO 1 (BROWN) CRIMPS AT PI PIN FOUR. SEVEN CONTACTS BELOW AND THREE CONTACTS ABOVE ARE LEFT VACANT.
- 11 SEPARATE WIRES BETWEEN RED/ORN, ORN/YEL, BRN/BLU, BLU/VIO, VIO/GRY, WHT/BLK TO END OF APPLIED MARKER. CUT OFF YEL, GRN, GRY AND WHT WIRES AT MARKER.



945092-0001	BULK CABLE ASSY MAT - F02 - 0001
945092-0001	CABLE ASSY OPERATOR FRONT PANEL 990
PART NO.	DESCRIPTION

PROCESSES:
1. MARK PER F-100, METHOD VII, CLASS
12, COLOR BLACK, TYPE 4
2. SOLDER PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 4

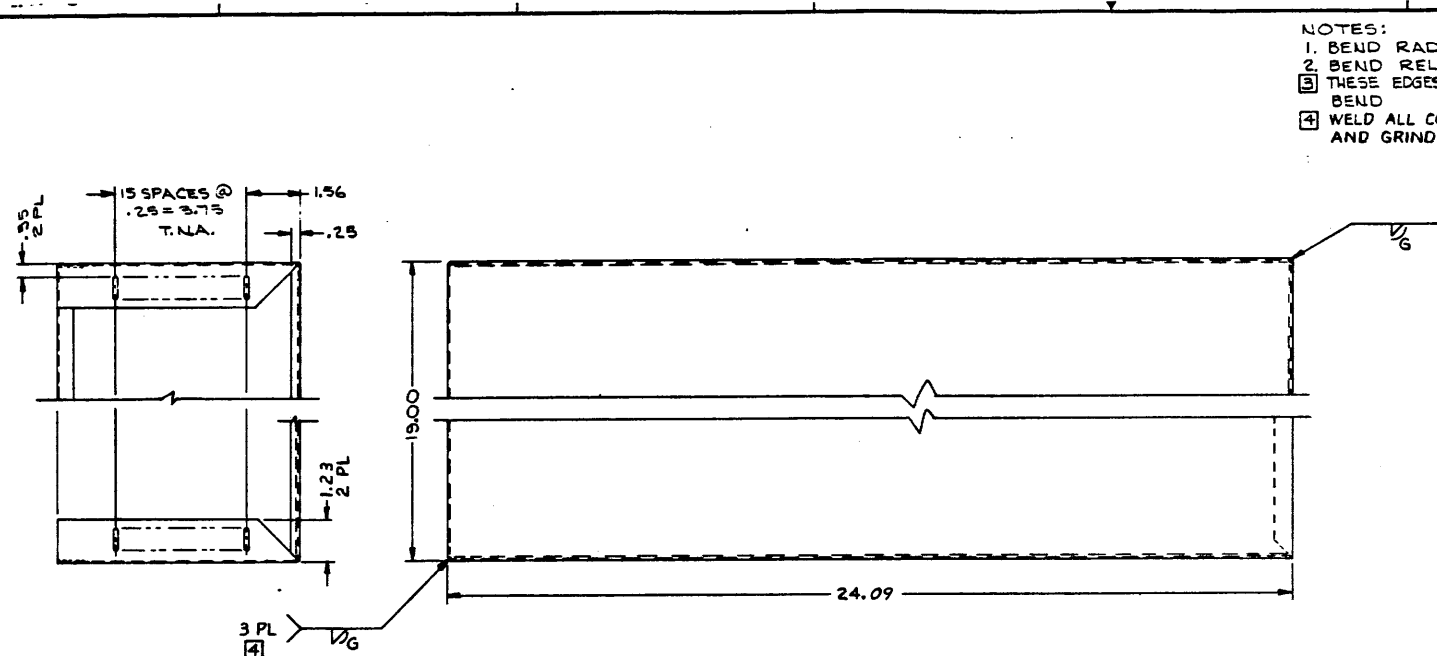
UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02	
HOLE TOLERANCE Ø.113 ±.004 Ø.125 ±.001 Ø.301 ±.008 Ø.750 ±.001	THRU ±.005 ±.001 ±.010 ±.001	THRU ±.008 ±.001 ±.015 ±.001	THRU ±.008 ±.001 ±.015 ±.001
3 QTY REQ 1 ITEM NO 1 CODE IDENT PART OR IDENTIFYING NUMBER NOMENCLATURE OR DESCRIPTION PROCUREMENT SPECIFICATION		PARTS LIST DATE: 12-2-79 ENGR: [Signature] APVD: [Signature] CONTR NO: [Signature] DESIGN ACTIVITY RELEASE SCALE: 1 SHEET	
TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas		CABLE ASSEMBLY, OPERATOR, FRONT PANEL 990	
SIZE CODE IDENT NO DRAWING NO D 96214 945032			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945032-0001		REV G	
ITEM NUMBER	QUANTITY AND ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	0001.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS	000779-88377-4					
0001A					P1						
0101	0001.000	EA		0945032-5031	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
		<i>J. R. ...</i>	8-6-79			CABLE ASSY, OPERATOR FRONT PANEL, 990					
APPROV. ENG.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	PART NUMBER	LM0945032-0001	REV	G

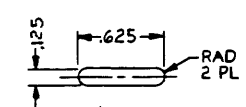
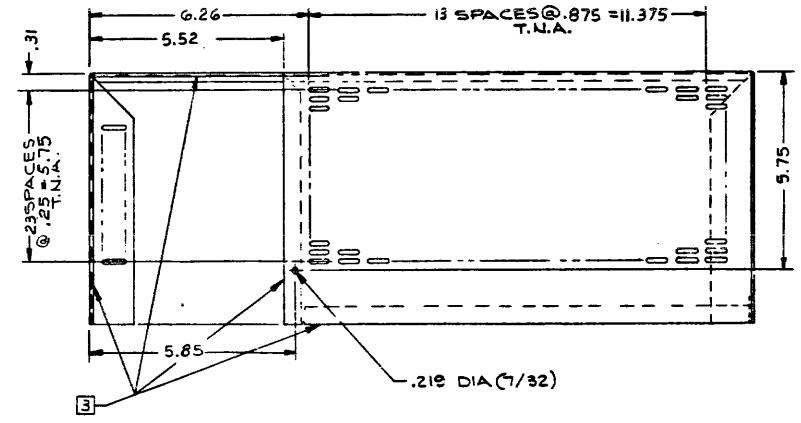
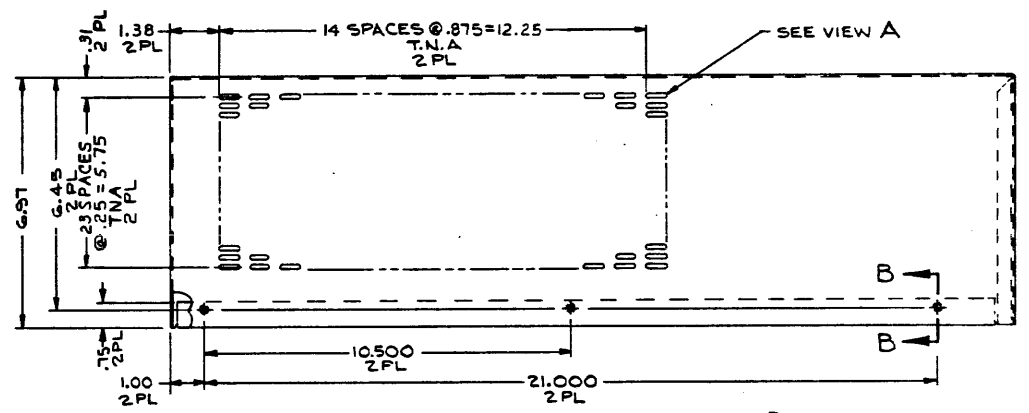
TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945032-5001		REV G	
ITEM NUMBER	QUANTITY AND ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	0003.000	FT		0996248-0001	CABLE, FLAT 10 COND, 28AWG 7/36 STRAND	008261-455-344-10					
0003	0002.000	EA		2210419-0005	TERM LUG, INSUL, SOLDERLESS, 26 - 24 AWG	014726-SEE TI DWG					
0004	0004.000	EA		0539380-0006	CONTACT, 24-20AWG BERY COPPER	089110-87309-3					
0005	0001.000	EA		2210317-0001	LABEL, BLANK, CABLE MARKER	085480-SLPP-19319-4					
0006	0000.500	FT		0972437-0001	SLEEVE, PVC .125 ID .025 WALL	SEE - TI DRAWING					
0008	0001.000	EA		2210259-0004	TAB, PULL, PLASTIC LOOP, 20 POS	000779-SEE TI DWG					

DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						BULK CABLE ASSEMBLY MATERIAL FOR -0001					
APPROV. ENG.	DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0945032-5001	REV	G

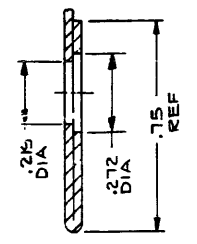


NOTES:
 1. BEND RADIUS .03
 2. BEND RELIEF AT SHOP OPTION
 3. THESE EDGES TO HAVE A .50 DUTCH BEND
 4. WELD ALL CORNER BEND RELIEFS CLOSED AND GRIND SMOOTH

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		1. 2.19 DIA WAS .250 A 2.14 DIA B-B 2.19 & 2.72 WERE .162 & .219 RESP	5-12-75
B		1. DIM 24.09 WAS 24.21 DELETED DIM 11.570 & B-Z	5-12-75
FORMAL RELEASE			
C		CN 375277 (D) N. 1. DIM .31 WAS .56; 23 SPACES WAS 19 SPACES; 5.75 WAS 4.75 (2) VIEW A WAS 912 PLACES	5-12-75



VIEW A
1088 PLACES
SCALE: 2/1



SECTION B-B
6 PLACES
SCALE: 4/1

PROCESSES:
 1. FUSION WELD PER F-264, METHOD C2
 2. PHOSPHATIZE PER F-112, METHOD 1
 3. PAINT PER F-149, TYPE II, CLASS 3, METHOD 1, USING ITEM 2

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIR	DIMENSIONS ARE IN INCHES	TOLERANCES ANGLES 31°
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS = .010	2 PLACE DECIMALS = .02
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			
HOLE TOLERANCE		NEATNESS USED ON APPLICATION	
.013 - .008	.126 - .008	.251 - .008	THRU - .001
THRU - .001	THRU - .001	THRU - .001	THRU - .001
.501 - .008	.751 - .010	1.001 - .012	THRU - .001
THRU - .001	THRU - .001	THRU - .001	THRU - .001

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
2	AR	2	801607-0011	URETHANE PAINT LT GRAY CYCOLAC # 31592	
	AE	1		.036 THK COLD ROLLED STEEL SH	

PARTS LIST		DATE	
DWN	5-12-75	TEXAS INSTRUMENTS	
CHK		INCORPORATED	
ENGR		Equipment Group Dallas, Texas	
SA		COVER, CHASSIS TABLE TOP	
APVD			
CONTR NO		SIZE	CODE IDENT NO
DESIGN ACTIVITY RELEASE		D	96214
		DRAWING NO	544555
		SCALE	5-HEET

Equipment Desk

1. SCOPE
THIS SPECIFICATION COVERS THE REQUIREMENTS FOR A 72 INCH STANDARD EQUIPMENT DESK, WITH 24.6 VPO.

2. APPLICABLE DOCUMENTS
THE FOLLOWING DOCUMENTS OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS OR REQUESTS FOR PROPOSAL FORM A PART OF THE SPEC TO THE EXTENT SPECIFIED HEREIN. IN THE EVENT OF ANY CONFLICT BETWEEN THIS DOCUMENT AND THE REF DOCUMENTS, THIS DOCUMENT SHALL GOVERN.
UL STANDARD NO 478
EIA RS-310-B

3. REQUIREMENTS

3.1 GENERAL
MATERIALS SHALL BE AS SPECIFIED HEREIN. MATERIALS SHALL NOT BLISTER, CRACK OR BE ADVERSELY AFFECTED WHEN EXPOSED TO THE OPERATING OR ENVIRONMENTAL CONDITIONS OF THIS SPECIFICATION

3.1.1 PHYSICAL CONFIGURATION: SEE FIGURE 1

3.1.1.1 MATERIAL:

3.1.1.1.1 DESK TO BE FABRICATED FROM COLD ROLLED STEEL.

3.1.1.1.2 TAPPED ANGLES TO BE 11GA COLD ROLLED STEEL (RETM A ANGLES)

3.1.1.2 FINISHES

3.1.1.2.1 ALL PAINTED SURFACES TO BE PHOSPHATIZED

3.1.1.2.2 TAPPED ANGLES TO BE CADMIUM OR ZINC PLATED

3.1.1.2.3 DESK TOP - FORMICA BRAND
NEUTRAL-WHITE #918-64 (OR EQUIVALENT)

3.1.1.2.4 COMFORT EDGE - FORMICA BRAND
WINDSOR BOOKMATCHED WALNUT #232-64 (OR EQUIVALENT)

3.1.1.2.5 PANELS, REMOVEABLE - SIDES, BACKS
LIGHT GRAY, 801607-11, TEXTURED
SHERWIN WILLIAMS - HOUSTON
GLOSS 15-25

~~3.1.1.2.6 EQUIPMENT FRONTS, DOORS, ETC.~~
~~WHITE, CHARCOAL, TEXTURED~~
~~SHERWIN WILLIAMS - HOUSTON~~
~~GLOSS 15-25~~

3.1.1.2.7 FRAME
CHARCOAL, 801607-12, TEXTURED
SHERWIN WILLIAMS - HOUSTON
GLOSS 6-10

3.2 ELECTRICAL REQUIREMENTS

3.2.1 DESK AS SUPPLIED SHALL CONFORM TO ALL APPLICABLE SECTIONS OF UNDERWRITERS LAB STANDARD NO 478, (-0001 ONLY)

3.2.2 DESK SHALL BE PROVIDED WITH A UL TYPE A/C OUTLET STRIP WITH A MINIMUM OF 6 OUTLETS, UL APPROVED W/ABER ELEC. TYPE 602 OR EQUIV. POWER TO THIS OUTLET STRIP IS TO BE CONTROLLED WITH A UL RECOGNIZED CIRCUIT BREAKER LOCATED AS SHOWN IN FRONT VIEW ON SHEET 2 OF THIS DRAWING AND RATED AT 15 AMPS AT 115 VOLTS A.C. BREAKER MUST TRIP BETWEEN 0.5 AND 20 SECONDS AT 200% OVERLOAD (-0001) OR 7.5 AMPS AT 230 VOLTS A.C. (-0002). THE -0001 DESK IS TO BE SUPPLIED WITH A 15 FOOT AC POWER CORD RATED AT 15 AMPS AT 115 VAC. REFER TO FIGURE 2 FOR A SCHEMATIC OF THE 115 VAC POWER WIRING DIAGRAM OR FIGURE 3 FOR A SCHEMATIC OF THE 230 VAC DIAGRAM.

3.3 MECHANICAL REQUIREMENTS

3.3.1 DESK SHALL BE IN ACCORDANCE WITH EIA STANDARD RS-310-B.

3.3.2 SIDE AND REAR PANEL TO BE ATTACHED WITH 1/2 POUND GRIP BALL STUDS.

3.3.3 FOAM WEATHER STRIP MATERIAL TO BE APPLIED TO MATING EDGES OF ALL DOOR PANELS.

4. QUALITY ASSURANCE PROVISIONS

4.1 RESPONSIBILITY FOR INSPECTION
UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR ORDER, THE SUPPLIER IS RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION REQUIREMENTS AS SPECIFIED HEREIN. EXCEPT AS OTHERWISE SPECIFIED IN THE CONTRACT OR ORDER, THE SUPPLIER MAY USE HIS OWN OR ANY OTHER FACILITY SUITABLE FOR THE PERFORMANCE OF THE INSPECTION REQUIREMENTS SPECIFIED HEREIN. UNLESS DISAPPROVED BY THE PROCURING ACTIVITY, THE PROCURING ACTIVITY RESERVES THE RIGHT TO PERFORM ANY OF THE INSPECTIONS SET FORTH IN THIS SPECIFICATION TO ASSURE SUPPLIES AND SERVICES CONFORM TO PRESCRIBED REQUIREMENTS.

4.2 CONFIGURATION CONTROL
THE MANUFACTURER SHALL BE REQUIRED TO NOTIFY TEXAS INSTRUMENTS BUYER, PRIOR TO DELIVERY, OF ANY CHANGES IN DESIGN, MATERIAL OR PROCESS THAT MAY EFFECT THE FORM, FIT, FUNCTION, INTERCHANGEABILITY, QUALITY, RELIABILITY OR U.L. STATUS OF THE ITEM/ITEMS SPECIFIED HEREIN. PROPRIETARY INFORMATION NEED NOT BE DISCLOSED.

5. PREPARATION FOR DELIVERY

5.1 PACKAGING

5.1.1 PACKAGING SHALL BE ADEQUATE TO PROVIDE PROTECTION AGAINST ANY DAMAGE, BREAKAGE, OR LOSS DURING SHIPMENT FROM THE SUPPLY SOURCE TO THE USING ACTIVITY.

5.2 MARKING

5.2.1 REQUIRED MARKING
AS A MINIMUM, THE DEVICE SHALL BE MARKED WITH THE MANUFACTURER'S IDENTIFICATION, PART NUMBER AND DATE CODE.

6. CONFIGURATION CONTROL
CHANGE NOTICE:
THE MANUFACTURER SHALL BE REQUIRED TO NOTIFY THE PROCURING ACTIVITY, PRIOR TO DELIVERY, OF ANY CHANGES IN DESIGN, MATERIAL OR PROCESSES THAT MAY AFFECT THE FORM, FIT, FUNCTION, INTERCHANGEABILITY, QUALITY, OR RELIABILITY OF THE DEVICE SPECIFIED HEREIN. PROPRIETARY INFORMATION NEED NOT BE DISCLOSED EXCEPT THE PROCURING ACTIVITY REQUIRES SUFFICIENT INFORMATION TO DETERMINE THE CHANGE AND ITS EFFECT ON ANY EQUIPMENT USING OR INTERFACING WITH THE DEVICE SPECIFIED HEREIN.

7. NOTES:

- MANUFACTURER'S PART NUMBER(S) REPRESENTS THOSE PARTS BEING MANUFACTURED ON 1/10/76.
- VENTILATION AREA TO BE A STANDARD PATTERN ALLOWING A HOLE AREA OF APPROXIMATELY 50% OF TOTAL AREA PERFORATED HOLE PATTERN TO MEET UL REQUIREMENTS FOR PERFORATIONS IN ELECTRICAL EQUIPMENT BAYS.
- UNISTRUT TO BE P-7000 STYLE, TOP AND BOTTOM OF (B) EQUIPMENT BAYS AS SHOWN.
- FRONT AND REAR RETMA ANGLES TO FACE FORWARD WITH 24.25 INCH SEPARATION BETWEEN FRONT AND REAR ANGLES. IN -0001 VERSION, GROUND ONE REAR ANGLE TO INTERNAL GND LUG OF OUTLET POWER BOX. IN -0002 VERSION, GND ONE REAR ANGLE TO POWER PANEL GND LUG. USE #12 AWG GREEN WIRE FOR -0001 & -0002 VERSIONS
- THE FRONT AND REAR OPENINGS OF EACH MODULE BAY SHALL BE 90° AT ALL CORNERS. THE OPENING MEASURED AT DIAGONALS SHALL NOT DIFFER BY MORE THAN .125 INCH

APPROVED SOURCE OF SUPPLY

1. UNLESS OTHERWISE SPECIFIED
2. TRIMM ENCLOSURE PRODUCTS
11939 SHERMAN ROAD
NORTH HOLLYWOOD, CA 91605

ONLY THE ITEM DESCRIBED ON THIS DRAWING WHEN PROCURED FROM THE VENDORS LISTED HEREON IS APPROVED BY TEXAS INSTRUMENTS INCORPORATED FOR USE IN THE APPLICATION(S) SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND APPROVAL BY TEXAS INSTRUMENTS INCORPORATED, D.S.D.

6 THE CABLE PORT SHALL BE 2 1/2 INCHES X 6 INCHES MINIMUM

7 CIRCUIT BREAKER(S) AND OUTLETS SHALL BE AN INTEGRAL PART OF THE RESPECTIVE POWER PANEL

8 WHEN SPARE PARTS ARE ORDERED THE VENDOR SHALL BE RESPONSIBLE TO SEND APPROPRIATE ATTACHMENT HARDWARE WITH THE RESPECTIVE PARTS. WHEN MODULE BAY(S) IS/ARE ORDERED THEY SHALL CONTAIN PREFATTACHED CASTERS. IN ADDITION TO THE OTHER REQUIRED HARDWARE.

ZONE	LTR	DESCRIPTION	DATE	APPROV.
	A	REDRAWN WITH CHANGE		
		FORMAL RELEASE		
	B	CN 407708 (C) M. B. 11/5/76 (1) SH 1 ADDED PARA 3.2.2, -0002 TO PH BLOCK #115V TO -0001 DESCRIPTION (1) SH 2 ADDED FRONT VIEW, VIEW D & FIGURES 2 & 3 (3) DELETED VIEW B-B	5-4-76	A. R. P.
	C	CN 414965 (E) (1) SHEET 1, PARA 3.2.2 REVISED (2) FIGURE 2 & 3 CHANGED TO 6 OUTLETS INSTEAD OF 4 OUTLETS; SH 2	10-19-76	A. R. P.
	D	CN 419128 (E) D. C. 11/5/76 (1) SH 1, ADDED SOURCE 2, REVISED PARA 3.2.2 (2) SH 2, FIG 1, DIM 29.50 WAS 28.25 AND ADDED DIM 30.91 (3) SH 2, FIG 2 AND FIG 3, DELETED 51	2-9-77	A. R. P.
	E	CN 414177 (E) C. S. 11/5/76 (1) PARA 3.2.2 WAS ... WITH 3 FOUND...	4-6-77	A. R. P.

ZONE	LTR	DESCRIPTION	DATE	APPROV.
	F	CN 421100 (E) A. D. 11/5/76 (1) ADDED WITH A UL TYPE A/C OUTLETS, W/ABER EQUIV. WITH A UL TYPE BREAKER, BREAKER MUST TRIP OVERLOAD TO PARA 3.2.2 (ADDED NOTE # 13) PARAGRAPH 3.3.2 (B) WAS A (4) ADDED VIEW E, SH 2 (5) ADDED DOUBLE PROTECTOR TO MAIN D (6) PARA 3.2.1 ADDED -0001 ONLY	6-2-77	A. R. P.
	G	CN 426807 (C) R. P. 11/5/76 (1) REVISED PER EXTENSIVE ENGINEERING CHANGE (2) ADDED SH 1A	1-3-78	A. R. P.
	H	CN 424955 (E) A. D. 11/5/76 (1) REVISED PER EXTENSIVE ENGR CHANGES (2) ADDED ITEMS 1B THRU 21 AND NOTE G	4-19-78	A. R. P.
	J	CN 437504 (E) A. D. 11/5/76 (1) SH 2, FIG 1 DIM 32.25 WAS 34.00 (2) ADDED VIEW F-F	9-1-78	E. D. W.
	K	CN 442712 (D) R. P. 11/5/76 (1) REVISED PER EXTENSIVE ENGR CHANGES	1-9-80	E. D. W.

SOURCE CONTROL DRAWING

REV STATUS OF SHEETS	REV SHEET	1 2	2 1 ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED		REMOVE ALL BURRS AND SHARP EDGES		CONCENTRICITY MACHINED DIAMETERS 010 P/R		DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	
HOLE TOLERANCE		0.13 - 0.04		0.125 - 0.01		0.251 - 0.06	
TOLERANCE		0.125 - 0.01		0.250 - 0.01		0.500 - 0.01	
HOLE TOLERANCE		0.125 - 0.01		0.251 - 0.01		0.500 - 0.01	
TOLERANCE		0.125 - 0.01		0.250 - 0.01		0.500 - 0.01	
HOLE TOLERANCE		0.125 - 0.01		0.251 - 0.01		0.500 - 0.01	
TOLERANCE		0.125 - 0.01		0.250 - 0.01		0.500 - 0.01	

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

ANGLES 11°

3 PLACE DECIMALS = 0.001

2 PLACE DECIMALS = 0.01

DATE: 3-5-76

3/5/76

3/5/76

3/5/76

3/5/76

DESIGN ACTIVITY RELEASE

3/5/76

TEXAS INSTRUMENTS INCORPORATED
Equipment Group Dallas Texas

DESK, DOUBLE BAY,
COMPUTER SYSTEMS

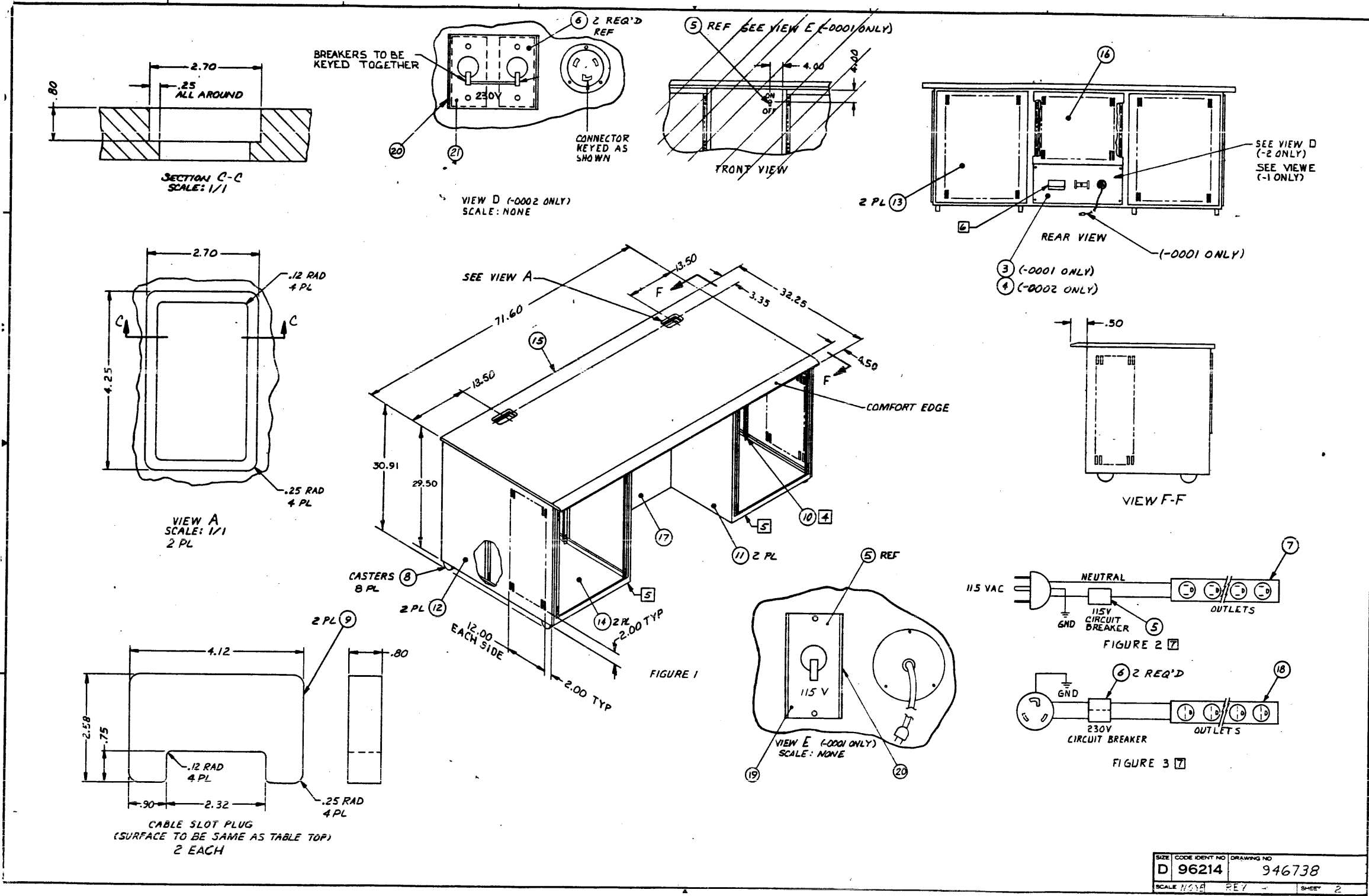
SIZE: CODE IDENT NO. DRAWING NO.
DI 96214 946738

SCALE: NONE SHEET 1 OF 3

QTY	ITEM NO.	T 1 PART NUMBER	(TRIMM P/N) SOURCE 2	DESCRIPTION
-2	-1			
REF	1	946738-0001	76077-01	72" EQUIPMENT DESK 115V
REF	2	-0002	76077-02	72" EQUIPMENT DESK 230V
REF	3	-0003	90616	POWER PANEL ASSY, 115V
1	4	-0004	90615	POWER PANEL ASSY 230V
1	5	-0005	T467-15	CIRCUIT BREAKER 15 AMPS (FOR 115V DESK)
2	6	-0006	T469-75	CIRCUIT BREAKER 7 1/2 AMPS (FOR 230V DESK)
1	7	-0007	T482-1	OUTLET RECEPTACLE DUPLEX, 15A, 115V
8	8	-0008	92053-01	CASTER, SWIVEL 2 1/2" DIA, W/4 RIVETS
2	9	-0009	92014-01	PLUG, DESK TOP
10	10	-0010	91506-14	TAPPED ANGLE ASSY W/HARDWARE
2	11	-0011	90408-141	SIDE PANEL, SOLID, SNAP-ON
2	12	-0012	90407-142	SIDE PANEL, VENTED SNAP-ON
2	13	-0013	90709-142	REAR PANEL ASSY, VENTED SNAP-ON
2	14	-0014	90807-14	MODULE BAY
1	15	-0015	76077-104	DESK TOP
1	16	-0016	76077-102	REAR PANEL
1	17	946738-0017	76077-101	REAR CABINET
3	18	946738-0018	T482-2	OUTLET RECEPTACLE DUPLEX, 15A, 230V
1	19	946738-0019	92065-15	ESCUTCHEON, 115V
1	20	946738-0020	92057-01	ESCUTCHEON, 230V
1	21	946738-0021	92066-75	ESCUTCHEON, 230V
3	22	946738-0022	92066-066	GROUND WIRE, 12" LONG

DATE	ISSUE DATE	SCALE	NO. OF SHEETS	SHEET NO.
DATE	11/21/77	D 96214	946738	K
TEXAS INSTRUMENTS		SCALE: N.C.W.E.		

Equipment Desk



NOTES: UNLESS OTHERWISE SPECIFIED:

1.0 SCOPE
THIS SPECIFICATION COVERS THE REQUIREMENTS FOR A SINGLE BAY EQUIPMENT PEDESTAL WITH 24.6 VPO.

2.0 APPLICABLE DOCUMENTS
THE FOLLOWING DOCUMENTS OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS OR REQUESTS FOR PROPOSAL FORM A PART OF THE SPEC TO THE EXTENT SPECIFIED HEREIN. IN THE EVENT OF ANY CONFLICT BETWEEN THIS DOCUMENT AND THE REF DOCUMENTS, THIS DOCUMENT SHALL GOVERN.

EIA STANDARD NO 478
EIA RS-310-B

3.0 REQUIREMENTS

3.1 GENERAL
MATERIALS SHALL BE AS SPECIFIED HEREIN. MATERIALS SHALL NOT CRACK OR BE ADVERSELY AFFECTED WHEN EXPOSED TO THE OPERATING OR ENVIRONMENTAL CONDITIONS OF THIS SPECIFICATION.

3.1.1 PHYSICAL CONFIGURATION: SEE FIGURE 1

3.1.1.1 MATERIAL:

3.1.1.1.1 DESK TO BE FABRICATED FROM COLD ROLLED STEEL.

3.1.1.1.2 TAPPED ANGLES TO BE 11GA COLD ROLLED STEEL (RETM A ANGLES)

3.1.1.2 FINISHES

3.1.1.2.1 ALL PAINTED SURFACES TO BE PHOSPHATIZED

3.1.1.2.2 TAPPED ANGLES TO BE CADMIUM OR ZINC PLATED

3.1.1.2.3 DESK TOP - FORMICA BRAND OR EQUIVALENT
NEUTRAL WHITE - NO 918-64 (OR EQUIVALENT)

3.1.1.2.4 COMFORT EDGE - FORMICA BRAND OR EQUIVALENT
WINDSOR BOOKMATCHED WALNUT NO 232-64 (OR EQUIVALENT)

3.1.1.2.5 PANELS, REMOVEABLE - SIDES, BACK
LIGHT GRAY, 801607-11, TEXTURED
SHERWIN WILLIAMS - HOUSTON
GLOSS 15-25

~~3.1.1.2.6 EQUIPMENT FRONTS, DOORS, ETC.
WHITE, 801607-7, TEXTURED
SHERWIN WILLIAMS - HOUSTON
GLOSS 15-25~~

3.1.1.2.7 FRAME
CHARCOAL, 801607-12, TEXTURED
SHERWIN WILLIAMS-HOUSTON
GLOSS 6-10

3.2 ELECTRICAL REQUIREMENTS

3.2.1 UNIT AS SUPPLIED SHALL CONFORM TO ALL APPLICABLE SECTIONS OF UNDERWRITERS LAB STANDARD NO 478. (-0001 ONLY)

3.2.2 UNIT SHALL BE PROVIDED WITH A UL TYPE A/C OUTLET STRIP WITH A MINIMUM OF 4 OUTLETS. POWER TO THIS OUTLET STRIP IS TO BE CONTROLLED WITH A UL RECOGNIZED CIRCUIT BREAKER RATED AT 15 AMPERE AT 120 VOLTS A.C. (0001) OR 20 AMPERE AT 240 VOLTS A.C. (0002) AND LOCATED AS SHOWN ON SHEET 2. CIRCUIT BREAKER INTEGRAL WITH OUTLET STRIP IS ACCEPTABLE. NUMBER ELECTRICAL TYPE UL-436B OR EQUIV. BREAKER MUST TRIP BETWEEN 2.5 AND 25 SECONDS AT 100% OVERLOAD. THE DESK IS TO BE SUPPLIED WITH A 10 FOOT A/C POWER CORD RATED AS 15 AMPERE AT 120 VAC. REFER TO FIGURE 2 FOR A SCHEMATIC OF THE 115 VAC POWER WIRING DIAGRAM OR FIGURE 3 FOR A SCHEMATIC OF THE 230 VAC DIAGRAM.

3.3 MECHANICAL REQUIREMENTS

3.3.1 UNIT SHALL BE IN ACCORDANCE WITH EIA STANDARD RS-310-B.

3.3.2 SIDE AND REAR PANEL TO BE ATTACHED WITH 1/2 POUND GRIP BALL STUDS

3.3.3 FOAM WEATHER STRIP MATERIAL TO BE APPLIED TO MATING EDGES OF ALL DOOR PANELS.

4.0 QUALITY ASSURANCE PROVISIONS

4.1 RESPONSIBILITY FOR INSPECTION
UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR ORDER, THE SUPPLIER IS RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION REQUIREMENTS AS SPECIFIED HEREIN. EXCEPT AS OTHERWISE SPECIFIED IN THE CONTRACT OR ORDER, THE SUPPLIER MAY USE HIS OWN OR ANY OTHER FACILITY SUITABLE FOR THE PERFORMANCE OF THE INSPECTION REQUIREMENTS SPECIFIED HEREIN. UNLESS DISAPPROVED BY THE PROCURING ACTIVITY, THE PROCURING ACTIVITY RESERVES THE RIGHT TO PERFORM ANY OF THE INSPECTIONS SET FORTH IN THIS SPECIFICATION TO ASSURE SUPPLIES AND SERVICES CONFORM TO PRESCRIBED REQUIREMENTS.

4.2 THE MANUFACTURER SHALL BE REQUIRED TO NOTIFY TEXAS INSTRUMENTS BUYER, PRIOR TO DELIVERY, OF ANY CHANGES IN DESIGN, MATERIAL OR PROCESS THAT MAY AFFECT THE FORM, FIT, FUNCTION, INTERCHANGEABILITY, QUALITY, RELIABILITY OR U.L. STATUS OF THE ITEM/ITEMS SPECIFIED HEREIN. PROPRIETARY INFORMATION NEED NOT BE DISCLOSED.

5.0 PREPARATION FOR DELIVERY

5.1 PACKAGING

5.1.1 PACKAGING SHALL BE ADEQUATE TO PROVIDE PROTECTION AGAINST ANY DAMAGE, BREAKAGE, OR LOSS DURING SHIPMENT FROM THE SUPPLY SOURCE TO THE USING ACTIVITY.

5.2 MARKING

5.2.1 REQUIRED MARKING
AS A MINIMUM, THE DEVICE SHALL BE MARKED WITH THE MANUFACTURER'S IDENTIFICATION, PART NUMBER.

6.0 CONFIGURATION CONTROL
CHANGE NOTICE:
THE MANUFACTURER SHALL BE REQUIRED TO NOTIFY THE PROCURING ACTIVITY PRIOR TO DELIVERY, OF ANY CHANGES IN DESIGN, MATERIAL OR PROCESS THAT MAY AFFECT THE FORM, FIT, FUNCTION, INTERCHANGEABILITY, QUALITY, OR RELIABILITY OF THE DEVICE SPECIFIED HEREIN. PROPRIETARY INFORMATION NEED NOT BE DISCLOSED, EXCEPT THE PROCURING ACTIVITY REQUIRES SUFFICIENT INFORMATION TO DETERMINE THE CHANGE AND ITS EFFECT ON ANY EQUIPMENT USING OR INTERFACING WITH THE DEVICE SPECIFIED HEREIN.

NOTES:

1. MANUFACTURER'S PART NUMBER(S) REPRESENTS THOSE PARTS BEING MANUFACTURED ON 1/10/77.

2. VENTILATION AREA TO BE A STANDARD PATTERN ALLOWING A HOLE AREA OF APPROXIMATELY 50% OF TOTAL AREA PERFORATED HOLE PATTERN TO MEET UL REQUIREMENTS FOR PERFORATIONS IN ELECTRICAL EQUIPMENT BAYS.

3. UNISTRUT TO BE P-7000 STYLE, TOP AND BOTTOM EQUIPMENT BAY AS SHOWN.

4. POWER CORD FOR -0001 ONLY.

5. FRONT AND REAR RETMA ANGLES TO FACE FORWARD WITH 24.25 INCH SEPARATION BETWEEN FRONT AND REAR ANGLES. IN -0001 VERSION GROUND ONE REAR ANGLE TO INTERNAL GROUND LUG OF POWER OUTLET BOX. IN -0002 VERSION GROUND ONE REAR ANGLE TO POWER PANEL GROUND LUG. USE #12 AWG GREEN WIRE FOR GROUND.

6. THE FRONT AND REAR OPENINGS OF THE MODULE BAY SHALL BE 90° AT ALL CORNERS. THE OPENINGS MEASURED AT DIAGONALS SHALL NOT DEFER BY MORE THAN 0.125 INCH.

7. THE CABLE PORT SHALL BE 2 1/2 INCHES X 6 INCHES MINIMUM.

8. CIRCUIT BREAKERS AND OUTLETS SHALL BE AN INTEGRAL PART OF THE RESPECTIVE POWER PANEL.

9. WHEN SPARE PARTS ARE ORDERED THE VENDOR SHALL BE RESPONSIBLE TO SEND APPROPRIATE ATTACHMENT HARDWARE WITH THE RESPECTIVE PARTS. WHEN MODULE BAY IS ORDERED, IT SHALL CONTAIN PRE-ATTACHED CASTERS IN ADDITION TO THE OTHER REQUIRED HARDWARE.

REV	DESCRIPTION	DATE	APPROVED
A	CM421099 (1) PARAGRAPH 3.2.2 - ADDED "UL TYPE ... UL RECOGNIZED ... AND BREAKER INTEGRAL ... AT 200% OVERLOAD" (2) PARAGRAPH 3.3.2 WAS 5 POUND (3) ADDED NOTE 5, (4) VIEWS C AND "D" - ADDED CIRCUIT BREAKER PROTECTOR. (5) PARA 3.2.1 ADDED (-0001) ONLY)	6-2-77	J.R.M.
B	CM425277 (E) SD (1) TITLE WAS SINGLE BAY PEDESTAL (2) DELETED PART NO (3) REVISED NOTE 5 (4) ADDED PARAGRAPH 4.2 AND NOTE 6 (5) ADDED SH 1A	12-22-77	J.R.M.
C	CM424956 (E) A. CANCEL (1) DELETED PARA 3.1.1.2.6 (2) ADDED NOTE 7 (3) SH (4) REVISED ITEMS 7, 8 AND 9 (5) ADDED ITEMS 15, 16 AND 17 (6) (5) (1) ADDED FLAG TO VIEW "A" (15) ADDED BALLOON 16 TO VIEW "D" (16) ADDED BALLOON 17 TO VIEW "C" (6) ADDED BALLOON 17 TO FIG. 2 AND BALLOON 15 TO FIG. 3	4-19-78	J.R.M.
D	CM437505 (E) A. CANCEL (1) SH 2 FIG. 1 DIM 32.25 WAS 34.00 (2) ADDED VIEW E-E	8-31-78	E. Wang
E	CM442713 (D) 77.77 (1) SH 2 VIEW C & D REVISED EXTENSIVE ENGRG CHANGE S.	10-11-79	E. Wang

APPROVED SOURCE OF SUPPLY
1. TRIMM ENCLOSURE PRODUCTS
1199 SHERMAN ROAD
NORTH HOLLYWOOD, CA 91605

ONLY THE ITEM DESCRIBED ON THIS DRAWING WHEN PROCURED FROM THE VENDOR(S) LISTED HEREON IS APPROVED BY TEXAS INSTRUMENTS INCORPORATED FOR USE IN THE APPLICATION(S) SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND APPROVAL BY TEXAS INSTRUMENTS INCORPORATED, DSO.

REV STATUS	REV	D	C
OF SHEETS	SHEET	2	11A

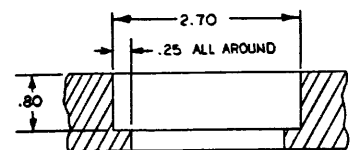
SOURCE CONTROL DRAWING

SEQ NO	IDENT	PROCESS	F SPEC	NO	CLASSIFICATION	ADDITIONAL	NOTES
PROCESSSES - FOR CORRELATION TO GOVT. SPECIFICATIONS SEE DRAWING 72967							

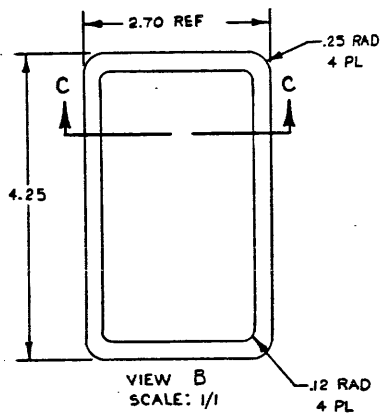
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED					
• DIMENSIONS ARE IN INCHES					
• TOLERANCES - ANGLES - 1°					
3 PLACE DECIMALS ± 0.01					
2 PLACE DECIMALS ± 0.02					
• INTERPRET DRAWING PER MIL D 1000					
• REMOVE ALL BURRS AND SHARP EDGES					
• CONCENTRICITY MACHINED DIAMETERS, 0.01 FIM					
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES					
• PARENTHETICAL INFO FOR REF ONLY					
HOLE TOLERANCE					
.013 - .004 THRU - .004					
.125 - .001 THRU - .001					
.251 - .008 THRU - .001					
.500 - .001 THRU - .001					
.501 - .008 THRU - .010					
1.001 - .012 THRU - .012					
1.001 - .012 THRU - .012					
1.001 - .012 THRU - .012					
APPLICATION					
D96214				DRAWING NO 957528	
SCALE NONE					

ITEM NO	QTY		TI PART NO	SOURCE 1	DESCRIPTION
	-1	-2			
1	REF	-	937528-0001	77003-01	SINGLEBAY PEDESTAL, 115V
2	-	REF	-0002	77003-02	SINGLEBAY PEDESTAL, 230V
3	1	-	-0003	90616	POWER PNL, ASSY, 115V
4	-	1	-0004	90615	POWER PNL, ASSY, 230V
5	1	-	-0005	T467-15	CIRCUIT BK 15 AMPS (FOR 115V VERSION)
6	-	2	-0006	T469-75	CIRCUIT BK 7.5 AMPS (FOR 230V VERSION)
7	3	-	-0007	T482-1	OUTLET RECEPTACLE DUPLEX, 15A, 115V
8	4	4	-0008	92053-01	CASTER, SWIVEL 2 1/2" DIA, W/ 4 RIVETS
9	1	1	-0009	92014-01	PLUG, DESK TOP
10	4	4	-0010	91506-14	TAPPED ANGLE ASSY W/HARDWARE
11	1	1	-0011	76077-102	REAR PANEL
12	2	2	-0012	90407-142	SIDE PANEL
13	1	1	-0013	77003-101	PEDESTAL TOP
14	1	1	937528-0014	90808-1405	MODULE BAY
15	-	3	937528-0015	T482 - 2	OUTLET RECEPTACLE DUPLEX, 15A 230V
16	1	1	937528-0016	92057 - 01	GUARD, CKT BK
17	1	-	937528-0017	92065 - 15	ESCUTCHEON, 115V
18	-	1	937528-0018	92064 - 75	ESCUTCHEON 230V
19	2	2	937528-0019	92086 - 06G	GROUND WIRE, 12' LONG

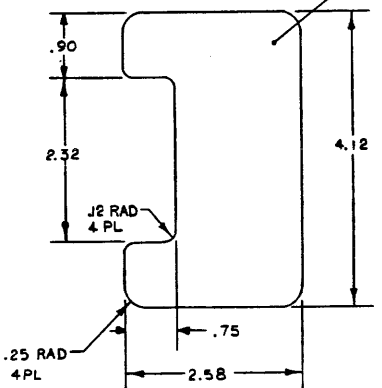
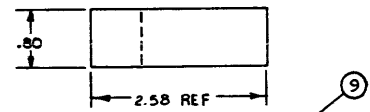
TEXAS INSTRUMENTS	DATE	12-15-77	DRAWING NO	937528	REV	E
	FILE DATE		D96214			



SECTION C-C
SCALE: 1/1



VIEW B
SCALE: 1/1



CABLE SLOT PLUG
(SURFACE TO BE SAME AS TABLE TOP)

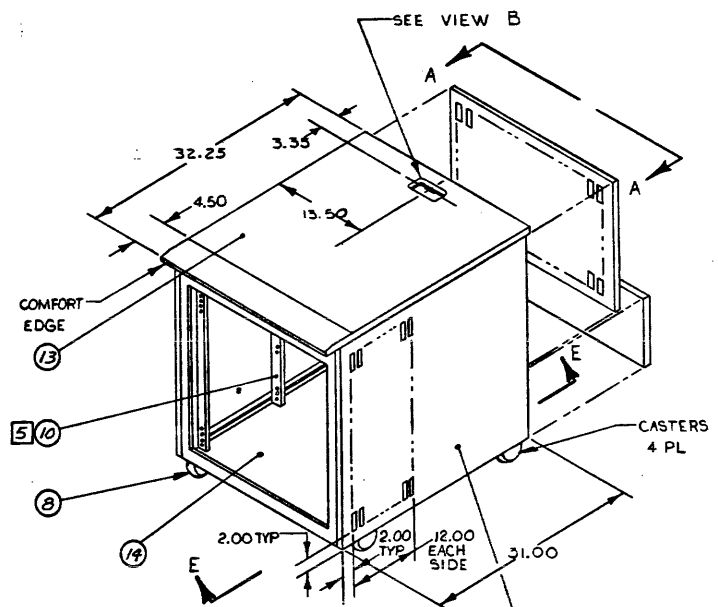
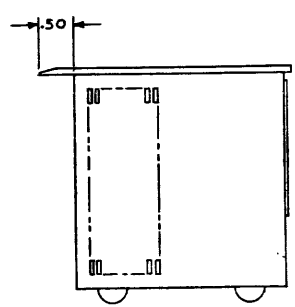


FIGURE 1
SCALE 1/10



VIEW E-E
SCALE: NONE

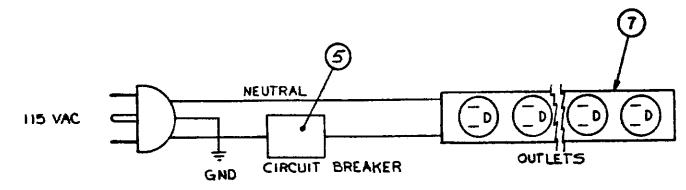
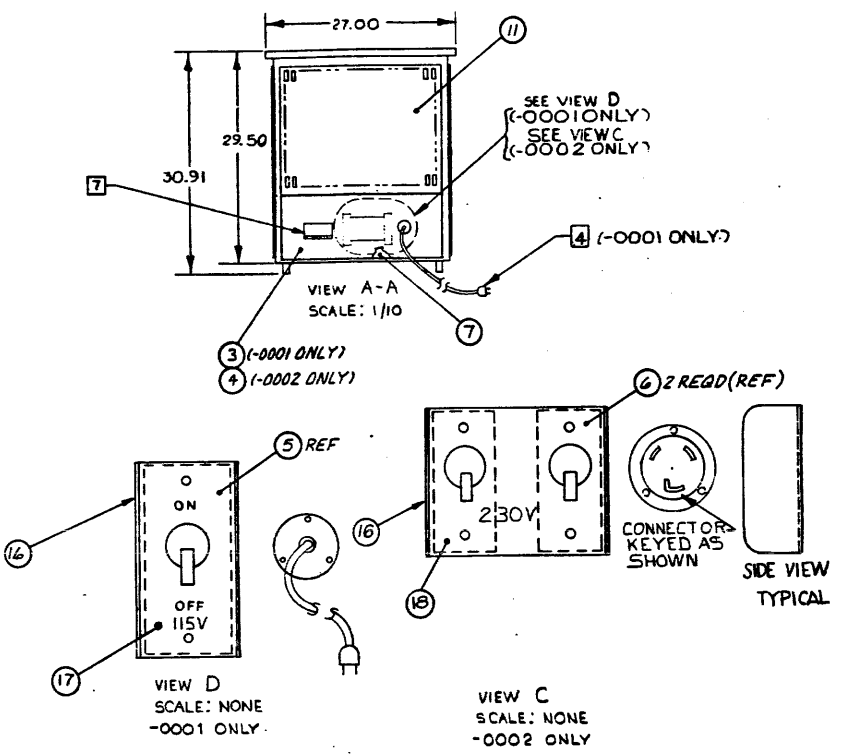


FIGURE 2

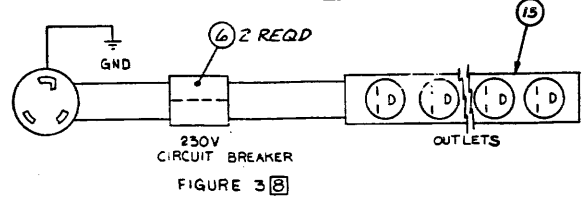


FIGURE 3

SIZE	CODE IDENT NO	DRAWING NO
D	96214	937528
SCALE	REV	SHEET
		2

70-Inch Cabinet

A 945080			↓								
APPLICATION		REVISIONS									
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED						
944900	7506										
<p>NOTES:</p> <p>1. BLANK PANELS, ITEMS 2 THRU 6, ARE USED ONLY WHEN EQUIPMENT (COMPUTER, ETC) IS INSTALLED AT THE FACTORY; OTHERWISE, ONLY ITEM 1 IS SHIPPED AS THE KIT (NO BLANK PANELS ARE INCLUDED).</p>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">945080-0002</td> <td>KIT, CABINET EQUIPMENT, 70IN, 230V</td> </tr> <tr> <td>945080-0001</td> <td>KIT, CABINET EQUIPMENT, 70IN, 115V</td> </tr> <tr> <td>TI PART NO</td> <td>DESCRIPTION</td> </tr> </table>						945080-0002	KIT, CABINET EQUIPMENT, 70IN, 230V	945080-0001	KIT, CABINET EQUIPMENT, 70IN, 115V	TI PART NO	DESCRIPTION
945080-0002	KIT, CABINET EQUIPMENT, 70IN, 230V										
945080-0001	KIT, CABINET EQUIPMENT, 70IN, 115V										
TI PART NO	DESCRIPTION										
REV											
SHEET											
REV STATUS OF SHEETS	REV SHEET	1									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± 1° 3 PLACE DECIMAL ± .010 2 PLACE DECIMAL ± .02	QWIN L. HENRY 3 3/8/76 P. Delgado 3/1/76 J. K. ... 3/12/76 ... 3/12/76 ... 3/12/76	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas									
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	KIT, CABINET EQUIPMENT										
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	CONTR NO DESIGN ACTIVITY RELEASE ... 3/14/76 ... 3/17/76	SIZE A	CODE IDENT NO 96214	DRAWING NO 945080	SCALE NONE						
				SHEET 1 OF 1							

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/05/76		PAGE 1 of		LM 945080-0001		REV *	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	000C1.C0C	EA		973730-C0C1	CABINET, EQUIP, STD EIA 19 INCH RKMOUNT						
0002	AR	EA		945130-CC01	FRONT PANEL, BLANK, 1-3/4 IN						
0003	AR	EA		945130-CC02	FRONT PANEL, BLANK, 3-1/2 IN						
C0C4	AR	EA		945130-CC03	FRONT PANEL, BLANK, 7 IN						
C0C5	AR	EA		945130-CC04	FRONT PANEL, BLANK, 8-1/4 IN						
C0C6	AR	EA		945130-CC05	FRONT PANEL, BLANK, 10-1/2 IN						

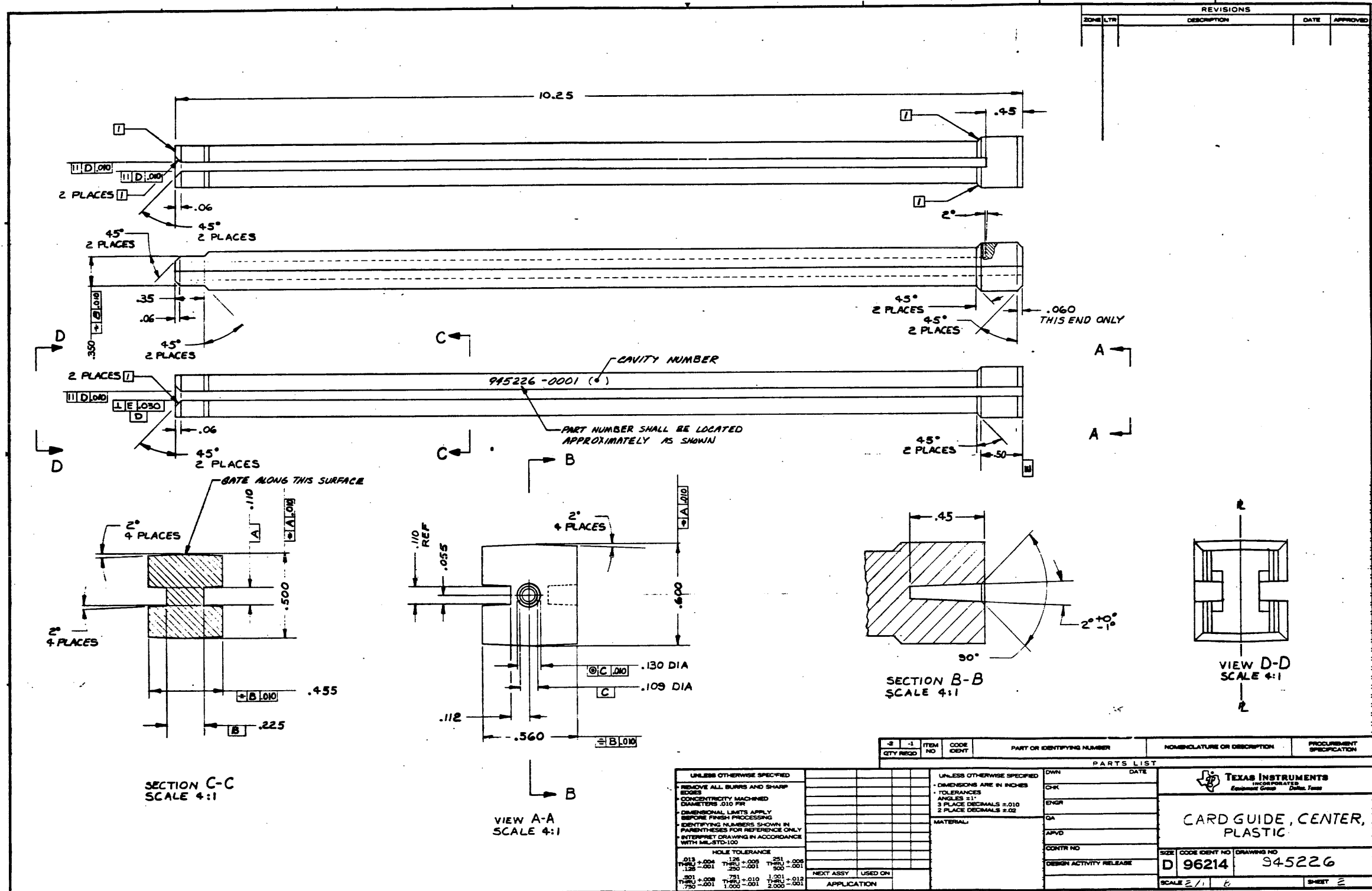
DRAFTSMAN	DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, CABINET EQUIPMENT, 70IN, 115V					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	PART NUMBER	LM	945080-0001	REV	*

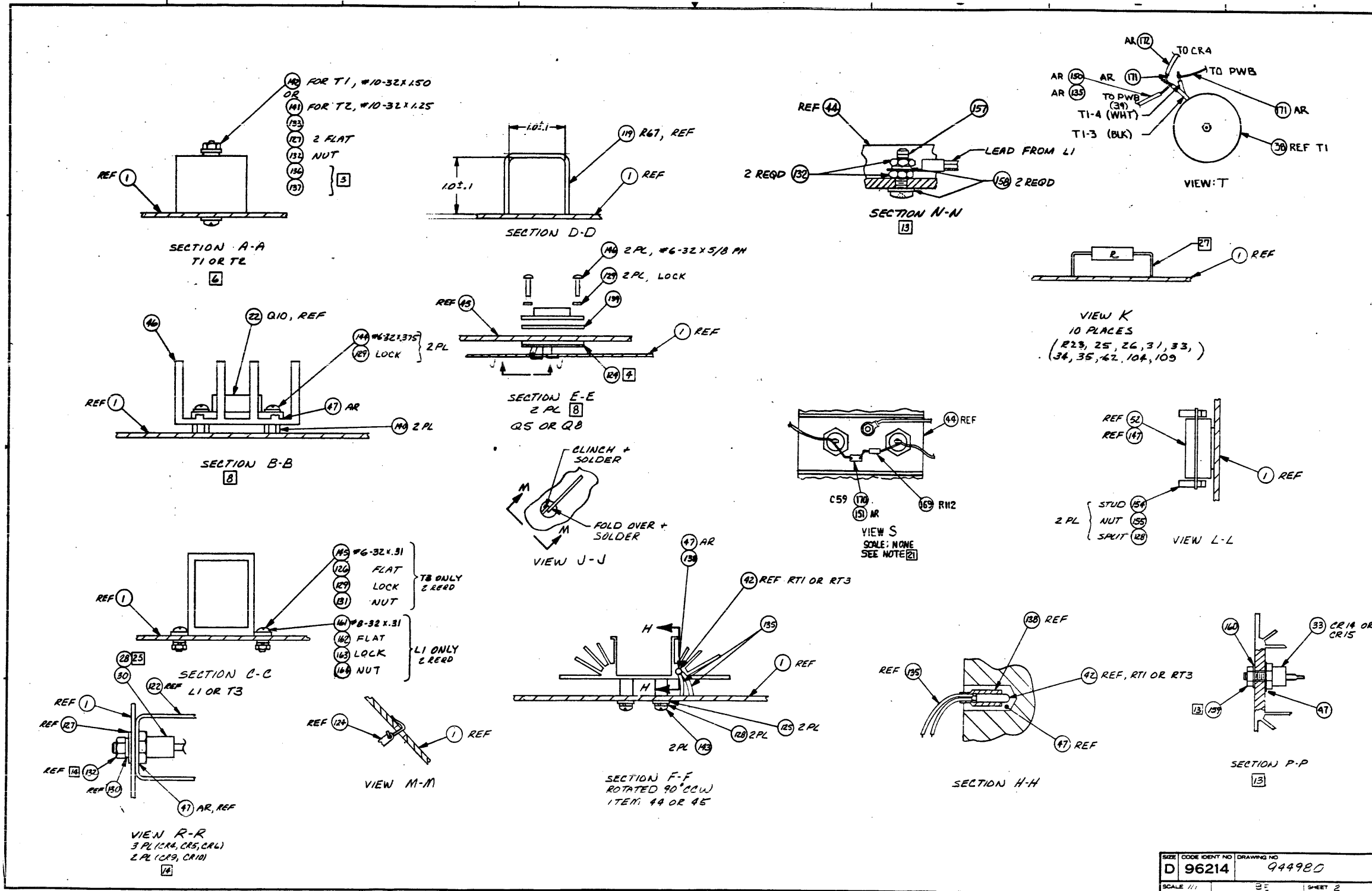
TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/05/76		PAGE 1 of		LM 945080-0002		REV *	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		973730-C002	CABINET, EQUIP, STD EIA 19 INCH RKMOUNT						
C002	AR	EA		945130-CC01	FRONT PANEL, BLANK, 1-3/4 IN						
0003	AR	EA		945130-CC02	FRONT PANEL, BLANK, 3-1/2 IN						
C004	AR	EA		945130-CC03	FRONT PANEL, BLANK, 7 IN						
C005	AR	EA		945130-CC04	FRONT PANEL, BLANK, 8-1/4 IN						
C006	AR	EA		945130-CC05	FRONT PANEL, BLANK, 10-1/2 IN						

DRAFTSMAN	DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	KIT, CABINET EQUIPMENT, 70IN, 230V					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM	945080-0002	REV	*

<p>1.0 SCOPE THIS SPECIFICATION COVERS THE REQUIREMENTS FOR A PRINTED WIRING BOARD EJECTOR.</p> <p>2.0 REQUIREMENTS THE PARTS SHALL MEET THE REQUIREMENTS OF THIS DRAWING.</p> <p>2.1 PHYSICAL CONFIGURATION THE PHYSICAL CONFIGURATION SHALL BE AS SPECIFIED ON SHEET 2 OF THIS DRAWING.</p> <p>2.2 MATERIAL THE PART SHALL BE MADE FROM GENERAL ELECTRIC LEXAN 3414-739, COLOR SHALL BE BLACK.</p> <p>3.0 QUALITY ASSURANCE PROVISIONS</p> <p>3.1 INSPECTION BY VENDOR VENDOR SHALL INSPECT PARTS AS NECESSARY TO INSURE COMPLIANCE WITH THIS DRAWING.</p> <p>3.2 INSPECTION BY TEXAS INSTRUMENTS TEXAS INSTRUMENTS SHALL INSPECT THE PARTS AS NECESSARY TO INSURE COMPLIANCE WITH THIS DRAWING.</p> <p>4.0 PREPARATION FOR DELIVERY</p> <p>4.1 PACKAGING SHALL BE ADEQUATE TO PREVENT ANY DAMAGE, BREAKAGE, OR LOSS DURING SHIPMENT FROM THE VENDOR TO TEXAS INSTRUMENTS INCORPORATED.</p> <p>4.2 PACKAGE SHALL BE MARKED WITH TEXAS INSTRUMENTS PART NUMBER.</p> <p>4.3 PACKAGE SHALL BE MARKED WITH MATERIAL MFG'S NAME AND MATERIAL PART NUMBER. (U.L. REQUIREMENT)</p> <p>5.0 NOTES: UNLESS OTHERWISE SPECIFIED</p> <p>1 THIS SURFACE MAY BE DRAFTED AWAY FROM PARTING LINE 4° MAX.</p> <p>2. PLASTIC MOLD TOOLING SPECIFICATION (S45220) AND CARD GUIDE TOOLING SPECIFICATION (S45221) FORM AN INTEGRAL PART OF THIS DRAWING.</p> <p>3. SURFACE FINISH SHALL BE SPE-SPI NO. 5 OR BETTER.</p> <p>6.0 THIS PART IS MANUFACTURED FOR TEXAS INSTRUMENTS BY: 1. AMERACE EMCONITE DIVISION DENTON, TEXAS 2. TEXAS INSTRUMENTS DENTON, TEXAS</p> <p>TOOLING MANUFACTURED BY AMERACE EMCONITE DIVISION DENTON, TEXAS (817) 387-3535</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>ZONE</th> <th>LYR</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td>1. ADDED MFG NAME & ADDRESS 2. ADDED PIN MARKING (3. ADDED CIRCULOT GATE ALONG THIS SURFACE * E</td> <td>10/2/75</td> </tr> <tr> <td colspan="4" style="text-align: center;">FORMAL RELEASE</td> </tr> <tr> <td>B</td> <td></td> <td>1. ADD 217 (D) * 2.1 (1) REVISED 2.1 (2) 2.1 (3) 2.1 (4) DIM. 0.00 THIS END ONLY WAS 2 PL</td> <td>10/10</td> </tr> <tr> <td>C</td> <td></td> <td>1. 2.1 (2) (C) H/L DILLI, NOTE 2.2 WAS 2. LEXAN 3414, COLOR... WHITE (2) DELETED NOTE G</td> <td>5-9-78</td> </tr> </tbody> </table>	REVISIONS				ZONE	LYR	DESCRIPTION	DATE	A		1. ADDED MFG NAME & ADDRESS 2. ADDED PIN MARKING (3. ADDED CIRCULOT GATE ALONG THIS SURFACE * E	10/2/75	FORMAL RELEASE				B		1. ADD 217 (D) * 2.1 (1) REVISED 2.1 (2) 2.1 (3) 2.1 (4) DIM. 0.00 THIS END ONLY WAS 2 PL	10/10	C		1. 2.1 (2) (C) H/L DILLI, NOTE 2.2 WAS 2. LEXAN 3414, COLOR... WHITE (2) DELETED NOTE G	5-9-78	
REVISIONS																										
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C		1. 2.1 (2) (C) H/L DILLI, NOTE 2.2 WAS 2. LEXAN 3414, COLOR... WHITE (2) DELETED NOTE G	5-9-78																							

REV STATUS OF SHEETS	REV C 2	REV C 2	REV C 2	REV C 2	REV C 2	REV C 2	REV C 2	REV C 2	REV C 2
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES		CONCENTRICITY MACHINED		DIMETERS 010 FIR		DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		IDENTIFYING NUMBERS SHOWN IN PARENTHESIS FOR REFERENCE ONLY	
HOLE TOLERANCE		DIMENSIONS ARE IN INCHES		TOLERANCES		ANGLES 11		3 PLACE DECIMALS ± 010	
2 PLACE DECIMALS ± 02		DWN 10--5		10/2/75		10/2/75		10/2/75	
D 96214		S 45226		D 96214		S 45226		S 45226	





ZONE	LTN	REVISIONS	DATE	APPROVED
AR		CN445208 (C) R. P. (1) ON -0001 LM ADDS 17859 AND 97EM 62 QTY WAS 1 (2) ON -5001 LM ITEM 59 QTY WAS 2 AND ITEM 62 QTY WAS 17; (3) UPDATED REVISION LEVEL BLOCK		
AT		CN448764 (C) R. P. (1) ADDED NOTE 28 & FIG ON SH3 (2) SH 1 EN B-4, ADDED BALLOON 24 & FLAG 28 (3) SH 1 EN D-6 ADDED C-58 & R112 (4) SH 2 ADDED ITEMS 150 & 135 TO VIEW T (5) UPDATED REVISION LEVEL BLOCK		
AU		CN452000 (C) R. P. (1) LM -0001 ITEM 63 P/N WAS 972943-0007 (2) UPDATED REVISION LEVEL BLOCK		
AV		CN450803 (B) C. P. (1) NOTE 28 WAS FOR ALL REVISIONS... AS SHOWN BELOW (2) 1 LM ITEM 24 P/N WAS 972063-0001 (3) UPDATED REVISION LEVEL BLOCK		
AW		CN450724 (C) R. P. (1) SH 2 EN C-5 DELETED ITEM 47 CALLOUT 121 LM ITEM 139 P/N WAS 52073-0001 AND QTY WAS 2; (3) UPDATED REVISION LEVEL BLOCK		
AX		CN452000 (C) R. P. (1) 1 LM ITEM 170 REF DESG WAS C-38 (2) UPDATED REVISION LEVEL BLOCK		
BA		CN 448197 (B) D. Edwards (1) ITEM 63 WAS 7 AND (2) ADDED REMARK NOTE 29 (3) UPDATED REVISION LEVEL		
BB		CN 451999 (E) C. P. (1) IN -1 LM ITEM 64 P/N WAS 0972931-0024, DESC. WAS CAP... 14000... 10% ITEM 65 P/N WAS 0972931-0080, DESC. WAS CAP... 10%, ITEM 66 P/N WAS 0972931-0049, DESC. WAS CAP... 10% (2) ON SHT 1, ENR B-8 YC4 DENOTED NOTES 30 & 31 (3) ADDED NOTES 30 & 31 (4) UPDATED REVISION LEVEL BLOCK		
BC		CN 433370 (E) C. P. (1) DENOTED BALLOON 168 & NOTE 32 AT CR 216 CR 22 ON SHT 1 EN B-5 (2) ADDED NOTE 32 (3) IN -1 LM ADDED ITEM 168B AND DASH NO. OF ITEM 168 WAS 6002 (4) UPDATED REVISION LEVEL BLOCK		
BD		CN 435051 (E) C. P. (1) IN -1 LM DELETED ITEM 151, ITEM 150, QTY WAS AR, P/N WAS 091400-0020, DESC. WAS WIRE *20... COPPER (2) UPDATED REVISION LEVEL BLOCK		
BE		CN 461380 (D) C. P. (1) CHANGED PICTORIAL VIEW K ON SHT 2 EN 2-C (2) UPDATED REVISION LEVEL BLOCK		
BF		CN 456185 (C) G. S. (1) SH 3 FLAG NOTE 21 WAS MIN. OF .35 (2) UPDATED REVISION LEVEL BLOCK		
BG		CN 451310 (C) R. Gundry (1) ITEMS 6-14 AND 15-17 DELETED FROM LM-0001 AND ADDED TO -0005 LM (2) REVISION LEVEL BLOCK UPDATED		
BH		CN 462278 (C) R. Gundry (1) ADDED NOTE 34 TO 2 BA, SH 1 (2) ADDED NOTE 34 (3) CHANGE POSITION OF G14, G15, G16 ON SH 1 (4) UPDATED REVISION LEVEL		
BJ		CN 450550 (D) R. Gundry (1) ITEM 139 ON LM WAS QTY 0001 AND P/N -0002 (2) UPDATED REVISION LEVEL BLOCK		
BK		CN 450260 (C) R. Gundry (1) REVISED PER EXTENSIVE ENGR CHANGE (2) ADDED SH 4 (3) UPDATED REVISION LEVEL BLOCK		

NOTES:

23. APPLY ITEM (153) BETWEEN ITEM (5) U1 AND ITEM (70) C2

24. REWORK PROCEDURES FOR ITEM 1 ASSYS WITH REVISIONS AA, AB THROUGH AM REQUIRED ONLY IF U18 OR U19 ARE TIL 124'S

A. CUT ETCH ON COMPONENT SIDE AS SHOWN BELOW.

B. CHANGE R53 (ITEM 76) 560Ω TO R53 (ITEM 173) 180Ω 1/2 W

C. CHANGE R52 (ITEM 77) 220Ω TO R52 (ITEM 83) 56Ω 1/2 W

D. INSTALL Q21 AS SHOWN BELOW. SECURE Q21 WITH ITEM 153 (HOT MELT)

E. REMOVE CR13 (ITEM 32) AND R70 (ITEM 82)

F. CHANGE R73 (ITEM 84) 330Ω 1/4 W TO R73 (ITEM 90) 56Ω 1/2 W

G. INSTALL Q20 AS SHOWN BELOW. SECURE Q20 WITH ITEM 153 (HOT MELT)

25. DIODE, IN 6M P/N 412713 MAY BE SUBSTITUTED FOR ITEM 28.

26. ITEM 175 IN -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED.

27. ALTERNATE MEANS, SUCH AS LEAD CRIMPING, MAY BE USED TO SPACE THE RESISTORS AWAY FROM THE PWB AS LONG AS A MINIMUM OF .20 INCHES CLEARANCE IS MAINTAINED.

28. ON THIS ASSY WHERE ITEM 24, PART NO 2210137-0001 IN LM IS CALLED OUT, A SUBSTITUTE PART (E008), PART NO 972931-0001 MAY BE USED. PART AND INSTALL ITEM 24, PART NO 2210137-0001 AS SHOWN BELOW FOR PWB 944981 REV (V) AND BELOW. FOR PWB 944981 REV (W) AND ABOVE INSTALL ITEM 24 PER COMPONENT OUTLINE MARKING ON PWB.

29. REWORK PROCEDURE ON ALL BOARDS THRU ASSEMBLY REV. BA

A. REMOVE C17

30. INSTALL LEAD END OF ITEMS 65 (C34) AND 66 (C35) NEAR CR9. INSTALL LEAD END OF ITEM 64 (C50) NEAR E17. SECURE ITEMS 64, 65 & 66 WITH ITEM 153 (HOT MELT). ENSURE COMPONENT POLARITY. MARKING AGREES WITH BOARD MARKING WHEN PARTS ARE INSTALLED.

31. ON THIS ASSEMBLY WHERE ITEMS 64, 65 & 66 ARE CALLED OUT, SUBSTITUTE PARTS, DWG NUMBERS 972931-0024 (1400MF 25V CAP-C50), 972931-0080 (900 MF 40V CAP-C34), AND 972931-0049 (1300MF 20V CAP-C35) MAY BE USED. ITEM 153 (HOT MELT) NOT REQUIRED ON SUBSTITUTE PARTS

32. DIODE MPD 400, P/N 231784-6002 1 SUBSTITUTED FOR ITEM 168

NOTES:

19. REWORK PROCEDURE FOR REV "B" THRU "M" ONLY:

A. COMPONENT SIDE - DRILL HOLES AS SHOWN

~~B. CONNECT R12 AND C59 IN PARALLEL FROM PIN 4 TO 6 OF U16~~

20. REWORK PROCEDURE FOR ITEM 1 REV B THRU K

A. REMOVE R12 AND C59 (ON ITEM REV J THRU K OR Rework per note 17A ABOVE.)

B. REMOVE Q11, R100, R101, AND R12.

C. ADD JUMPER BETWEEN R100 & R101 LOCATIONS NEAREST CONNECTOR J3.

D. CUT ETCH ON CONDUCTOR SIDE OF BOARD AS SHOWN BELOW:

E. ADD INSULATED JUMPER WIRE ON COMPONENT SIDE OF BOARD FROM THE FEED THRU GOING TO U16 PINS TO PREVIOUS Q11 COLLECTOR LOCATION.

F. ADD NEW R100 (K 1/4 W- ITEM 73) FROM TPI TO U21 PIN1.

G. ADD NEW Q11 (AST 2907- ITEM 23) AND NEW R12 (220Ω 1/4 W- ITEM 77) AS SHOWN BELOW:

21. INSTALL ITEMS (169) AND (170) AS SHOWN IN VIEW S. VIEWS APPLIES TO PWB 944981 REV P AND EARLIER

22. REWORK PROCEDURE FOR ITEM 1 REV B THRU P

A. REMOVE C8 ITEM (G2) FROM COMPLETED ASSYS. FOR THIS REWORK USE A CAPACITOR ITEM (G2) THAT HAS UN-PREPED LEADS.

B. SLEEVE THE LEADS OF C8 ITEM (G2) WITH ITEM (51). LOCATE C8 ABOVE R107 AND C1. CONNECT ONE LEAD END OF C8 TO THE LEAD OF R9 NEXT TO U2-8. CONNECT THE OTHER LEAD END OF C8 TO THE PAD OF OLD C8 LOCATION NEAREST TO U2.

NOTES: CONTINUED

11. REWORK PROCEDURE FOR ITEM 1, REV B ONLY:

A. CONNECT CAPACITOR C56 AS SHOWN BELOW:

B. CONNECT DIODE, CR11, FROM -12V MAIN TO LOGIC GND. AS SHOWN:

12. ALL WIRES SHALL BE WRAPPED OR CLAMPED FOR SECURE MECHANICAL CONNECTION BEFORE SOLDERING TO TERMINATION

13. TORQUE TO A MINIMUM OF 20 INCH POUNDS AND A MAXIMUM OF 30 INCH POUNDS.

14. TORQUE TO A MINIMUM OF 12 INCH POUNDS AND A MAXIMUM OF 15 INCH POUNDS.

15. SQUARE PADS ON PCB INDICATE (4) LEAD ON CAPACITORS, CATHODE LEAD OF DIODES, NUMBER ONE PIN OF INTEGRATED CIRCUITS, OR CONNECTORS

17. REWORK PROCEDURE FOR ITEM 1, REVISION "B" AND "C" BOARDS ONLY

A. REMOVE ETCH CONNECTION BETWEEN C10 AND PIN 3 OF U2 AND CONNECT C10 TO PIN 4 OF U2 AS SHOWN USING 30 AWG BUS WIRE

B. REWORK PROCEDURE FOR ITEM 1 REV F AND BELOW

A. CUT ETCH AS SHOWN BELOW:

B. INSTALL C57 (22UF 160V) AS SHOWN BELOW

NOTE: ATTACH WITH ITEM 153 (HOT MELT)

LOWER LEFT CORNER OF BOARD AS SHOWN ON SHEET 1

ZONE	LTN	REVISIONS	DATE	APPROVED
T		CN422038 (C) C. P. (1) LM ITEM 22 WAS 972716-0359, ITEM 62 QTY WAS 19 (2) DELETED C16 FROM ITEM 62 & LM (3) LM ITEM 161 WAS 972168-42 (4) UPDATED REVISION LEVEL BLOCK	1-28-77	R. Jones
U		CN420826 (D) C. P. (1) LM ITEM 150 WAS 41400-0048 (2) NOTE 14 WAS TORQUE... 20 IN LB'S (3) UPDATED REVISION LEVEL BLOCK	1-28-77	R. Jones
V		CN 424275 (B) D. Jones (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REVISION LEVEL BLOCK	5-19-77	R. Jones
W		CN 422115 (E) T. Harris (1) UPDATED REVISION LEVEL BLOCK	5-19-77	R. Jones
Y		CN 42303 (C) C. P. (1) LM ITEM 148 P/N WAS 972943-0007, ITEM 166 P/N WAS 972946-0025 (2) NOTE 13 WAS ... OF 42 INCH POUNDS UNWRAPPED REVISION LEVEL BLOCK	8-29-77	J. L. A.
AA		CN 426308 (C) C. P. (1) LM ITEM 14 P/N WAS 971000-0002 (2) TO LM ADDED ITEMS 169 AND 170 (3) SH 2 ADDED VIEW S (4) SH 3 ADDED NOTE 21 (5) ADDED FLAG NOTE 21, SH 1 EN D-5 (6) LM ITEM 151 QTY WAS .090 (7) UPDATED REVISION LEVEL BLOCK	8-31-77	J. L. A.
AB		CN 420031 (C) C. P. (1) LM ITEM 137 WAS QTY .050 (2) UPDATED REVISION LEVEL BLOCK	11-22-77	J. L. A.
AC		CN 429035 (B) J. Harris (1) ADDED NOTE 22 (2) UPDATED REVISION LEVEL BLOCK (3) ADDITION OF ITEMS 170 (C58) AND 163 (R102) OF VIEW S; PER ECN 426308 (REV A), UPGRADED TO "B" LEVEL.	2-2-78	R. Jones
AD		CN 429032 (E) T. Harris (1) LM ITEM 38 WAS 946754-0001 (2) ADDED ITEMS 171, 172 (2) ADDED VIEW T (3) ADDED BALLOON 47 TO SECTION P-P (4) TO NOTE 21 ADDED VIEW S... EARLIER (5) ADDED NOTE 23 (6) UPDATED REVISION LEVEL BLOCK	3-1-78	R. Jones
AE		CN 427140 (B) W. Harris (1) ADDED NOTE 24 (2) LM REV PER EXTENSIVE ENGR CHANGE (3) UPDATED REVISION LEVEL BLOCK	4-10-78	R. Jones
AF		CN 437262 (E) T. Harris (1) LM ITEM 28 WAS 412713-0001 (2) ADDED NOTE 25 TO SHEET 3 (3) UPDATED REVISION LEVEL BLOCK	5-25-78	R. Jones
AG		CN 439102 (C) T. Harris (1) ADDED ITEM 174 TO LM (2) ON LM, QTY OF ITEM 58 WAS 2 (3) IN REV LEVEL BLOCK ON REV AF PWB B WAS R (4) UPDATED REVISION LEVEL BLOCK	6-2-78	R. Jones
AH		CN 430755 (E) T. Harris (1) ADDED -5001 LM (2) ADDED ITEM 175 TO -0001 LM (3) ADDED NOTE 26 AND PART NO BLOCK (4) UPDATED REVISION LEVEL BLOCK	6-2-78	R. Jones
AJ		CN 429489 (C) T. Harris (1) NOTE 13 WAS TORQUE... 20 INCH POUNDS (2) NOTE 14 WAS TORQUE... 12 INCH POUNDS (3) UPDATED REVISION LEVEL BLOCK	6-2-78	R. Jones
AK		CN 451131 (C) B. Harris (1) CLASS OF CING OF REV AA WAS C (2) UPDATED REVISION BLK	9-13-78	E. D. Jones
AL		CN 441384 (C) R. Jones (1) REV SED PER EXTENSIVE ENGR CHANGES (2) UPDATED REVISION LEVEL BLOCK	2-19-79	R. Jones
AM		CN 448443 (C) R. Jones (1) UPDATED REVISION LEVEL ON NOTE 24, WAS A.A.A-B-AC (2) UPDATED REVISION LEVEL BLOCK	2-19-79	R. Jones
AN		CN 444715 (C) R. Jones (1) ADDED NOTE 21 TO SHT 3 & TO SHT 2 VIEW K ADDED FLAG NOTE 21 (2) UPDATED REVISION LEVEL BLOCK	2-19-79	R. Jones
AP		CN 445204 (C) R. Jones (1) LM -5001 ADDED ITEMS 12, 75, 90, & 98 (2) UPDATED REVISION LEVEL BLOCK	2-19-79	R. Jones

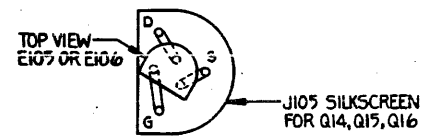
REV. CONT 208

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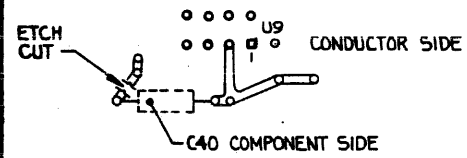
D 96214 344980

SCALE BK SHEET 3

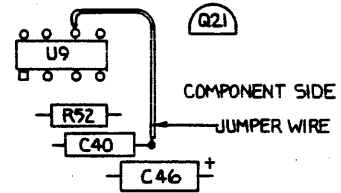
33 WHEN SUBSTITUTE PARTS E105 PN 972063-0001 AND E106 PN 972063-0002 ARE USED FOR ITEM 24, INSTALL AS SHOWN BELOW FOR PWB 944981 REV W AND ABOVE



34 REWORK PROCEDURE TO CHANGE CONNECTION OF ONE END OF C40 ON PWB 944981 REV(W) AND ABOVE
A. ON CONDUCTOR SIDE CUT ETCH BETWEEN C40 AND JUNCTION OF R53 AND R56 AS SHOWN BELOW



B. ON COMPONENT SIDE ADD JUMPER WIRE, ITEM 176, BETWEEN U9-6 AND THE END OF C40 NEAR NEGATIVE END OF C46 AS SHOWN BELOW.



TEXAS INSTRUMENTS	DATE	ISSUE DATE	SIZE	FIGURE NO.	DRAWING NO.	REV.
	REV. 1	5-5-80	D	96214	944980	SK
	SCALE	1:1				SHEET 4

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944980-0001		REV BK	
DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0002	REF	EA		0944982-9901	LOGIC DIAGRAM, 40 AMP POWER SUPPLY				
0003	REF	EA		0944983-9901	TEST PROCEDURE, 40 AMP POWER SUPPLY				
0004	REF	EA		0944984-9901	SPECIFICATION, 40 AMP POWER SUPPLY				
0005	00001.000	EA		0972872-0009	NETWORK LM 340-05T	NSC - LM 340-05T			
0005A					U1				
0006	00001.000	EA		0972663-0001	NETWORK, LM339N				
0006A					U2				
0013	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/M.L.7905CP, -5 VOLT	SEE - II DRAWING			
0013A					U15				
0014	00001.000	EA		0996671-0001	OPTICAL COUPLER TIL 124	001295-TIL 124			
0014A					U16				
0018	00002.000	EA		0539879-0001	TRANSISTOR 2N3725A	TI - 2N3725A			
0018A					C3 Q6				
0020	00002.000	EA		0972455-0004	TRANSISTOR, SILICON-P-N-P, A5T4029	TI - A5T4029			
0020A					C4 Q7				
0021	00004.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI - A5T2222			
0021A					C9 C13 C20 C21				
0022	00001.000	EA		0972803-0001	TRANSISTOR T18640 DARLINGTON, POWER NPN	TI - T1P640			
0022A					Q10				
0023	00003.000	EA		0808523-0001	TRANSISTOR A5T2907 PNP SILICON	TI - A5T2907			
DRAFTSMAN		DATE		DESIGN ENGINEER		TITLE			
		3-3-80				POWER SUPPLY, 40 AMP, 990			
APPROVED		DATE		RELEASED		PROJECT NO.		PART NUMBER	
				7506				LM0944980-0001	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944980-0001		REV BK	
DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0023A					Q11 Q12 Q18				
0024	00003.000	EA		2210137-0001	TRANS. JFET, LOW RESISTANCE	017850-J105			
0024A					Q14 Q15 Q16				
0025	00002.000	EA		0972958-0001	TRANSISTOR, PNP, GEN-PURP, 30 TU-5	TI - 2N2905A			
0025A					Q1 Q2				
0026	00001.000	EA		0972546-0002	TRIAL, SILICON-12A TIL126A				
0026A					Q17				
0027	00001.000	EA		0958762-0003	XST TIP 318 SGA TESTED	TI - TIP318			
0027A					Q19				
0028	00003.000	EA		0538139-0001	DIODES, M1202A, SILICON, PWR RECTIFIER	019500-JANINL202A			
0028A					CR4 CR5 CR6				
0030	00002.000	EA		0996064-0001	DIODE, RECTIFIER IN3825 THRU IN3883				
0030A					CR9 CR10				
0033	00002.000	EA		0974816-0001	DIODE SDS1				
0033A					CR14 CR15				
0036	00001.000	EA		0945247-0002	INDUCTOR, 10 UH, 5 AMP, FERRITE CORE				
0036A					L2				
0037	00001.000	EA		0946742-0001	INDUCTOR, 40 UH SPECIAL <INT 3006>				
0037A					L1				
0038	00001.000	EA		0949128-0001	TRANSFORMER, FERRITE POT CORE PWR SUPPLY, 40A				
DRAFTSMAN		DATE		DESIGN ENGINEER		TITLE			
						POWER SUPPLY, 40 AMP, 990			
APPROVED		DATE		RELEASED		PROJECT NO.		PART NUMBER	
								LM0944980-0001	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944980-0001		REV BK	
DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0038A					T1				
0039	00001.000	EA		0946755-0001	TRANSFORMER, 12 VOLT				
0039A					T2				
0040	00001.000	EA		0972859-0001	TRANSFORMER POWER SINGLE PHASE				
0040A					T3				
0041	00002.000	EA		0972806-0001	RECTIFIER, BRIDGE, JA, 400V				
0041A					CR100 CR101				
0042	00002.000	EA		0972714-0001	THERMISTOR-GLASS PROBE MTD, 200K OHM				
0042A					RT1 RT3				
0043	00001.000	EA		0972908-0001	THERMISTOR, DISC, 5 OHM				
0043A					RT2				
0044	00001.000	EA		0946748-0001	HEATSINK, DIODE 40 AMP SUPPLY				
0045	00001.000	EA		0946749-0001	HEATSINK, TRANSISTOR, 40 AMP SUPPLY				
0046	00001.000	EA		0972480-0004	HEATSINK, CIRCUIT BOARD (TO-3)-1.25	THR --8004-B-2			
0047	AR	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	COR - DL 340			
0049	00001.000	EA		0972423-0027	CONNECTOR 4 CONTACTS CHANGE UNIV PWR MT	AMP - J-350430-1			
0049A					J1				
0050	00001.000	EA		0972844-0001	CONNECTOR, RECEPTACLE, 150 GRID				
0050A					P1				
0051	00001.000	EA		0972423-0001	CONN, PCB HEADER 2CKT				
DRAFTSMAN		DATE		DESIGN ENGINEER		TITLE			
						POWER SUPPLY, 40 AMP, 990			
APPROVED		DATE		RELEASED		PROJECT NO.		PART NUMBER	
								LM0944980-0001	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944980-0001		REV BK	
DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80		DATE 02/29/80	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0051A					J2				
0052	00001.000	EA		0539409-0002	CONNECTOR, RCPT 9 PINS	AMP - J05203-1			
0052A					J3				
0053	00001.000	EA		0972711-0033	CAP, FIXED 330 UF 250VDC 10%	NAL - 25 U-330			
0053A					C1				
0054	00001.000	EA		0413729-1004	CAP, FIXED 1.00UF 400V 10%				
0054A					C4				
0055	00003.000	EA		0972757-0025	CAP FIX GEN .01MF 10% 50V				
0055A					C14 C15 C56				
0056	00001.000	EA		0972476-0001	CAP, .01UF, 1% 500VDC MINIMUM	SEE - II DRAWING			
0056A					C12				
0057	00002.000	EA		0972757-0013	CAP, FIXED, AXIAL LEAD, 1000 PF, 10%, 50V				
0057A					C9 C53				
0058	00001.000	EA		0772669-0001	CAP .01 MF 1.4K VOLT 480E -20%	CRL - L1103			
0058A					C30				
0059	00001.000	EA		0972924-0002	CAP FIX TANT SOLID 56 MFD 10% 4 VOLT	CPL - M39003A1-2240			
0059A					C42				
0060	00002.000	EA		0972928-0014	CAP .0039 MF 500VDC 5% FIXED DIELECTRIC				
0060A					C18 C41				
0061	00001.000	EA		0412645-0015	CAPACITUM, .1 UF +80% -20% 500VDC LHM DIE SPR	-41C92			
DRAFTSMAN		DATE		DESIGN ENGINEER		TITLE			
						POWER SUPPLY, 40 AMP, 990			
APPROVED		DATE		RELEASED		PROJECT NO.		PART NUMBER	
								LM0944980-0001	

40-Amp Power Supply Assembly

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 02/29/80 PAGE 5 of

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0061A					C19	
0062	00003.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,0.047 UF,+80V,-20%	
0062A					C8 C20 C5A	
0064	00001.000	EA		0804187-0038	CAPACITOR,FXD 15000 UF 7.5V 100%	
0064A					C50	
0065	00001.000	EA		0804187-0036	CAPACITOR,FXD 900 UF 40.0V 100%	
0065A					C34	
0066	00001.000	EA		0804187-0037	CAPACITOR,FXD 1800 UF 20.0V 100%	
0066A					C35	
0067	00002.000	EA		0972757-0001	CAP.,FIXED CERAMIC 100 PF 10% 50V	UL -LS1C101K
0067A					C36 C45	
0070	00003.000	EA		0972711-0045	CAP.,FIXED 1000UF 25VDC 10%	
0070A					C2 C32 C43	
0071	00004.000	EA		0232163-0000	TIP JACK,BGB MOUNTING,RED	SEE TI- DRAWING
0071A					TR4 TR28 TR30 IP31	
0072	00001.000	EA		0996311-0014	CAPACITOR,2-2000 UF 10V VDC 10%	
0072A					C57	
0075	00001.000	EA		0972976-0129	RBS,56K 5%	
0075A					R57	
0077	00001.000	EA		0972976-0071	RBS,FIX, 220 OHMS, 5%, 0.25 W, CARBON LUMP.	

POWER SUPPLY, 40 AMP, 990

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 02/29/80 PAGE 6 of

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0077A					R12	
0090	00001.000	EA		0972977-0057	RES FIXED 56 OHM 1/2 WATT 10%	
0090A					R73	
0098	00001.000	EA		0539370-0539	RBS FIX FILM 40.2K OHM 1% .25 WATT	LCM - NA55
0098A					R54	
0109	00003.000	EA		0539795-0006	RESISTOR,VARIAABLE 500 OHM CERMET FILM	BLU - 3069P-1-501
0109A					R4 R37 R65	
0111	00001.000	EA		0972833-0005	RBS FIXED 0.20 OHM 2WATT 10%	
0111A					R62	
0112	00001.000	EA		0972942-0094	RBS FIXED 27 OHMS 5 WATT 5%	DAE - LMS,KS 5
0112A					R31	
0113	00002.000	EA		0972942-0100	RES FIXED 39 OHMS 5 WATT 5%	DAE - LMS,KS 5
0113A					R26 R109	
0114	00002.000	EA		0972942-0017	RBS FIXED 470 OHMS 5 WATT 5%	DAE - LMS,KS 5
0114A					R25 R34	
0115	00001.000	EA		0972942-0029	RES FIX 10.0 K OHMS 5% 5 WATT WIREWOUND	UHM - 995-4624
0115A					R23	
0116	00002.000	EA		0996070-0003	TRANSISTOR,GARLINGTON,20 AMP	NAT - IR002
0116A					C5 C8	
0117	00002.000	EA		0972942-0001	RES FIX 0.10 OHMS 10% 5W W	IRL - A-5

POWER SUPPLY, 40 AMP, 990

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 02/29/80 PAGE 7 of

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0117A					R35 R104	
0118	00001.000	EA		0972687-0165	RES FIXED 7.5K OHMS 10 WATT 5% PWR	SPR - 25U-330
0118A					R33	
0119	00000.330	FT		0414316-0002	WIRE, ELEC, COPPER #14 AWG	
0119A					R67	
0122	00005.000	EA		0946687-0001	HEATSINK,DIODE,SINGLE	
0124	00002.000	EA		0235341-0000	SOCKET XST TC-3 CASE	EBY - 9866-15-1
0125	00004.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN96DC4L
0126	00002.000	EA		0411027-0806	WASHER,#6 FLAT,CRES.,.156 X .375 X .049	WPL - MS15795-806
0127	00009.000	EA		0411027-0806	WASHER,FLAT,#10	
0128	00006.000	EA		0411104-0135	WASHER, LOCK-SRING, HELICAL, #4	WPL - MS35338-135
0129	00008.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CRES	QPL - MS35335-56
0130	00005.000	EA		0411104-0138	WASHER, LOCK-SRING, HELICAL, #10	WPL - MS35338-138
0131	00002.000	EA		0411115-0064	NUT,PLAIN 6-32 UNC-28 MEX CRES	WPL - MS3549-264
0132	00009.000	EA		0411116-0104	NUT, PLAIN HEX, #10	
0133	00002.000	EA		0411161-0009	W" RING	
0135	00000.100	FT		0972436-0003	INSUL SLEEVING,PVC .034ID X.016ID X.20	MKL - HI-105L-20
0136	00000.050	QT		0415804-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C	
0137	00000.010	TU		0415804-0011	SURFACE PRIMER,COMPGUND GRADE T YELLOW	
0138	00000.100	FT		0972437-0001	SLEEVES,PVC .125 ID .025 WALL	SEE - II DRAWING

POWER SUPPLY, 40 AMP, 990

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 02/29/80 PAGE 8 of

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0139	00002.000	EA		0996042-0001	WASHER,INSULATING,MICA	THR - 56-43-2A746A
0140	00002.000	EA		0803153-0029	NUT,SLEEVES,SHLOW,BRASS,6-32X.125	
0141	00001.000	EA		0972986-0015	SCREW 10-32 1.25 PAN HEAD CRES	
0142	00001.000	EA		0972986-0017	SCREW 10-32 1.75 PAN HEAD CRES	
0143	00004.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES	
0144	00002.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES	
0145	00002.000	EA		0972988-0027	SCREW 6-32 X .312 PAN HEAD CRES	
0146	00004.000	EA		0972988-0031	SCREW 6-32 X .625 PAN HEAD CRES	
0147	00009.000	EA		0972422-0002	SOCKET, CONTACT	
0150	00001.900	FT		0457313-0002	WIRE, ELEC,S0410,INSULATED LUMP AWG 20	90484 -
0152	REF	EA		0945193-9901	WIRING LIST, 40 AMP POWER SUPPLY	
0153	00000.050	EA		0996069-0003	ADH,SULD,ANEROBIC 250 BAG ANAEROBIC	PERVAL-917-6302
0154	00002.000	EA		0532348-0401	STUD, EXTENSION-CRES	
0155	00002.000	EA		0416453-0021	NUT,PLAIN,4-40 UNC-28 HEX,CRES, SMALL	WPL - MAS671-C6
0156	00004.000	EA		0184262-0001	PAD,MOUNTING,BU-5, 1/4 LEAD,RED	THR - 7717-5
0157	00001.000	EA		0972986-0011	SCREW 10-32 .625 PAN HEAD CRES	
0158	00002.000	EA		0411101-0006	LOCKWASHER #10 EXTERNAL TOOTH CRES	
0159	00002.000	EA		0411010-0003	NUT,JAM,HEXAGON	WPL - AN316-L4R
0160	00002.000	EA		0411101-0061	LOCKWASHER 1/4 EXTERNAL TOOTH CRES	WPL - MS35335-61
0161	00002.000	EA		0972988-0043	SCREW 8-32 X .375 PAN HEAD CRES	

POWER SUPPLY, 40 AMP, 990

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944980-0001		REV BK		
DATE 02/29/80										
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0162	00002.000	EA		0411027-0807	WASHER, #8 FLAT, LRES, .188 X .325 X .049	WPL - M515795-807				
0163	00002.000	EA		0411101-0055	LOCKWASHER # 8 EXTERNAL TULTH CRBS	WPL - M535355-59				
0164	00002.000	EA		0411115-0084	NUT, PLAIN #32 UNC-2B HEX CRBS	WPL - M535849-284				
0165	00000.500	FT		0972634-0012	INSUL SLEEVING, EFLCN #14 -06010 16WALL	MKL - TFE-200C-UL-1				
0168	00002.000	EA		0231784-6003	DIODE, MULTI-RELIEF, 90V	04713M-0A952-2				
0168A					CR21 CR22					
0168B					PN 231784-6002 MAY BE USED					
0168C					AS AN ALTERNATE PART FOR					
0168D					ITEM 148-					
0169	00001.000	EA		0972977-0235	RES, FIX COMP 3.9 OHMS 1/2W 5% R112	81349K-CR2003K9JS				
0169A										
0170	00001.000	EA		0538319-0034	CAP, FIXED .004MF 5% C59	81349C-MM07F082JPM				
0170A										
0171	00000.400	FT		0411400-0016	WIRE, 16AWG, SOLID, UNINSULATED					
0172	00000.300	FT		0972634-0010	INSUL SLEEVING, #16 -05310 -016WALL THK	MKL - TFE-200C-UL-14				
0173	00001.000	EA		0972977-0069	RES 180 OHMS .5 WATTS 5% FLXCOMPSTIGN R53	G39008-MKR2001M1JS				
0173A										
0174	00001.000	EA		0996810-0007	CAPACITOR, 3900PF 400V 20% CER, DIM TYPE C11	DRAL4R-SDPJ18400VN				
0174A										
0175	00001.000	EA		0944980-5001	AUTO INSERTED PARTS LIST FOR 944980-0001					
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							POWER SUPPLY, 40 AMP, 990			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM0944980-0001		BK

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 0 of		PART NUMBER LM0944980-0001		REV BK		
DATE 02/29/80										
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0176	00000.200	FT		2210083-0003	WIRE, 6LGC, COND W/L STYLE 1213, 24 AWG	090484-MTE24A				
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							POWER SUPPLY, 40 AMP, 990			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM0944980-0001		BK

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944980-5001		REV BK		
DATE 02/29/80										
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0001	00001.000	EA		0944980-0001	PWB, POWER SUPPLY, 40 AMP, 990					
0006	00003.000	EA		0972663-0001	NETWORK, LM339N U8 U11 U12					
0006A										
0007	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR U3	SI -NE555V				
0007A										
0008	00003.000	EA		0972810-0001	NETWORK, SM74LS221N U4 U6 U13					
0008A										
0009	00001.000	EA		0219401-2451	NETWORK, INTERFACE MIC SN75451 U5					
0009A										
0010	00001.000	EA		0222222-7428	NETWORK, SN7428N U2					
0010A										
0011	00003.000	EA		0222224-2741	NETWORK, SN72741P OPERATIONAL AMP U9 U10 U23	-SN72741P				
0011A										
0012	00001.000	EA		0972784-0001	NETWORK, SM74LS13N U14					
0012A										
0014	00003.000	EA		0996671-0001	OPTICAL COUPLER TIL L24 U17 U18 U19	001295-TIL L24				
0014A										
0015	00001.000	EA		0972662-0001	NETWORK, SM72723M U20					
0015A										
0016	00001.000	EA		0972900-7474	NETWORK, SM74LS74N					
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							AUTO INSERTED PARTS LIST FOR 944980-0001			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM0944980-5001		BK

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944980-5001		REV BK		
DATE 02/29/80										
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0016A					U21					
0017	00001.000	EA		0972900-7402	NETWORK, SM74LS02N U22					
0017A										
0029	00005.000	EA		0972268-0006	DIODE, 1N4937 1 AMP CR1 CR2 CR7 CR8 CR16	SEE - TI DRAWING				
0029A										
0031	00004.000	EA		0539468-0007	DIODE, 1N4007 1AMP 1000PIV RECTIFIER CR12 CR17 CR20 CR11	TI -1N4007				
0031A										
0032	00002.000	EA		0972932-0001	DIODE, 1N9148 CR18 CR19	SEE TI- DRAWING				
0032A										
0034	00001.000	EA		0972934-0010	DIODE, 1N755A 7.5 V 5% SIL VOLT REG VR1	WPL - 1N755A				
0034A										
0035	00006.000	EA		0972934-0007	DIODE, 1N752A 5.6 V 5% SIL VOLT REG VR2 THRU VR7	WPL - 1N752A				
0035A										
0059	00001.000	EA		0972924-0002	CAP FIX TANI SOLID 50 MFD 10 X 6 VOLT C16	WPL - M39003/1-2246				
0059A										
0062	00015.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, .804, -20% C3, C7, C10, C13, C22, C23, C24, C25, C28, C29, C31, C48, C49, C51, C52					
0062A										
0062B										
0062C										
0063	00006.000	EA		0972757-0037	CAP FIX CER 0.1MF 104 50V					
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
							AUTO INSERTED PARTS LIST FOR 944980-0001			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV
								LM0944980-5001		BK

40-Amp Power Supply Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944980-5001		REV BK
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0063A					C26 C32 C40 C41 C47 C58					
0068	00001.000	EA		0972924-0014	CAP FIX TANT SOLID 15 MFD 10 x 20 VOLT	-M39003/1-2289				
0068A					C39					
0069	00006.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 x 20 VOLT	-M39003/1-2283				
0069A					C5 C27 C38 C44 C46 C55					
0073	00009.000	EA		0972976-0087	RES, FIX, 1.0K OHM, 58, 0.25 W, CARBON COMP.					
0073A					R8 R48 R58 R66 R87 R92 R93					
0073B					R100 R110					
0076	00012.000	EA		0972976-0111	RES, 10K OHMS .25W 5% FIX, COMP, INSULATED	MIL -RCR076103J5				
0076A					R15 R17 R45 R51 R48 R49 R86					
0076B					R94 R97 R99 R32 R111					
0075	00001.000	EA		0972976-0129	RES, 56K 5% R107					
0075A					R107					
0076	00001.000	EA		0972976-0081	RES FIXED 560 OHMS 1/4 W 5% R95					
0076A					R95					
0077	00004.000	EA		0972976-0071	RES, FIX, 220 OHM, 58, 0.25 W, CARBON COMP.					
0077A					R61 R72 R89 R102					
0078	00002.000	EA		0972976-0097	RES FIXED 2.7 K OHMS 1/4W 5%	051849-RCR076222J5				
0078A					R20 R46					
0079	00002.000	EA		0972976-0247	RES FIXED 5.6 OHMS 1/4 W 5%					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 944980-0001										
APPROV. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0944980-5001 REV BK										

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944980-5001		REV BK
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0079A					R22 R103					
0080	00001.000	EA		0972976-0095	RES, FIX, 2.2K .25W 5%	051849-RCR076222J5				
0080A					R29					
0081	00001.000	EA		0972976-0085	RES FIXED 820 OHMS 1/4 W 5%					
0081A					R40					
0082	00001.000	EA		0972976-0065	RES 120 OHM .25W 5% FIX COMP INSULATED					
0082A					R71					
0083	00003.000	EA		0972976-0057	RES FIXED 56 OHMS 1/4 W 5%					
0083A					R58, R63, R62					
0084	00002.000	EA		0972976-0075	RES, FIX, 330 OHM, 58, 0.25 W, CARBON LUMP.					
0084A					R88 R96					
0085	00003.000	EA		0972976-0125	RES FIXED 39 K OHMS 1/4 W 5%					
0085A					R14 R43 R50					
0086	00001.000	EA		0972976-0079	RES, FIX, 470 OHM, 58, 0.25 W, CARBON LUMP.					
0086A					R19					
0087	00002.000	EA		0972976-0151	RES FIXED 470K .25W 5%					
0087A					R6 R24					
0088	00002.000	EA		0972976-0091	RES FIXED 1.5 K OHMS 1/4 W 5%					
0088A					R21 R105					
0089	00002.000	EA		0972976-0071	RES FIXED 220 OHM 1/2 WATT 10%					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 944980-0001										
APPROV. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0944980-5001 REV BK										

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0944980-5001		REV BK
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0089A					R28 R30					
0090	00001.000	EA		0972976-0057	RES FIXED 56 OHM 1/2 WATT 10%					
0090A					R39					
0091	00002.000	EA		0539370-0417	RES FIX FILM 2.15K OHM 1% .25 WATT	LUR - NA55				
0091A					R1 R38					
0092	00003.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	LUR - NA55				
0092A					R2 R3 R47					
0093	00001.000	EA		0539370-0339	RES FIX FILM 332 OHM 1% .25 WATT	LUR - NA55-140PPN/C				
0093A					R5					
0094	00001.000	EA		0539370-0415	RES FIX FILM 249K OHMS, 1%, .25 WATT	LUR - NA55				
0094A					R10					
0095	00001.000	EA		0539370-0585	RES FIX FILM 121K OHM 1% .25 WATT	LUR - NA55				
0095A					R13					
0096	00003.000	EA		0539370-0553	RES FIX FILM 56-2K OHM 1% .25 WATT	LUR - NA55				
0096A					R49 R54 R104					
0097	00002.000	EA		0539370-0873	RES FIX FILM 150 OHM 1% .25 WATT	LUR - NA55				
0097A					R36 R74					
0098	00002.000	EA		0539370-0539	RES FIX FILM 40-2K OHM 1% .25 WATT	LUR - NA55				
0098A					R42 R50					
0099	00001.000	EA		0539370-0568	RES FIX FILM 80.6K OHM 1% .25 WATT	LUR - NA55				
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 944980-0001										
APPROV. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0944980-5001 REV BK										

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/29/80		PAGE 6 of		PART NUMBER LM0944980-5001		REV BK	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF QUANTITY	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0099A					R55						
0100	00002.000	EA		0539370-0304	RES FIX FILM 17.4K OHM 1% .25 WATT	COM - NASS					
0100A					R64 R74						
0101	00007.000	EA		0539370-0481	RES FIX FILM 10.0K OHM 1% .25 WATT	COM -NASSU-100PPN/L					
0101A					R9 R11 R41 R75 R78 R79 R82						
0102	00001.000	EA		0539370-0402	RES FIX FILM 1.50K OHM 1% .25 WATT	COR - NASS					
0102A					R77						
0103	00003.000	EA		0539370-0489	RES FIX FILM 12.1K OHM 1% .25 WATT	COR - NASS					
0103A					R7 R40 R104						
0104	00001.000	EA		0539370-0364	RES FIX FILM 604 OHM 1% .25 WATT	COM - NASS					
0104A					R81						
0105	00001.000	EA		0539370-0523	RES FIX FILM 27.4K OHM 1% .25 WATT	COR -NASSU-100PPN/L					
0105A					R83						
0106	00001.000	EA		0539370-0436	RES FIX FILM 3.40K OHM 1% .25 WATT	COM - NASS					
0106A					R84						
0107	00002.000	EA		0539370-0458	RES., FIXED, 5.76K OHM, 1%, .25W						
0107A					R85 R91						
0108	00001.000	EA		0539370-0414	RES FIX FILM 2.00K OHM 1% .25 WATT	COM - NASS					
0108A					R18						
0110	00001.000	EA		0539373-0579	RES FIX FILM 105K OHM 1% .375 WATT	COM - NASSU-100PPN/L					
DRAFTSMAN DATE CDD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTED PARTS LIST FOR 944980-0001											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM0944980-5001											
REV BK											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/29/80		PAGE 7 of		PART NUMBER LM0944980-5001		REV BK	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF QUANTITY	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0110A					R16						
0148	00001.000	EA		0972977-0139	RES FIXED .15 MEG 5% 1/2 WATT	QPL - 39008					
0148A					R27						
0149	00001.000	EA		0539370-0473	RES FIX FILM 8.25K OHM 1% .25 WATT	COR - NASS					
0149A					R98						
0166	00002.000	EA		0972976-0047	RES FIXED 22 OHMS 5% 1/4 WATT	QPL - 39008					
0166A					R44 R60						
0167	00002.000	EA		0538431-0001	INDUCTOR 3-3 UH .14 OHM						
0167A					L3 L4						
DRAFTSMAN DATE CDD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTED PARTS LIST FOR 944980-0001											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM0944980-5001											
REV BK											

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL TTL DEVICE TYPES ARE PREFIXED WITH SN74
 2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN TTL IC'S AND PIN 8 OF ALL 16-PIN TTL IC'S
 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN TTL IC'S AND PIN 16 OF ALL 16-PIN TTL IC'S
 4. DEVICE TYPE, PIN NUMBERS AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



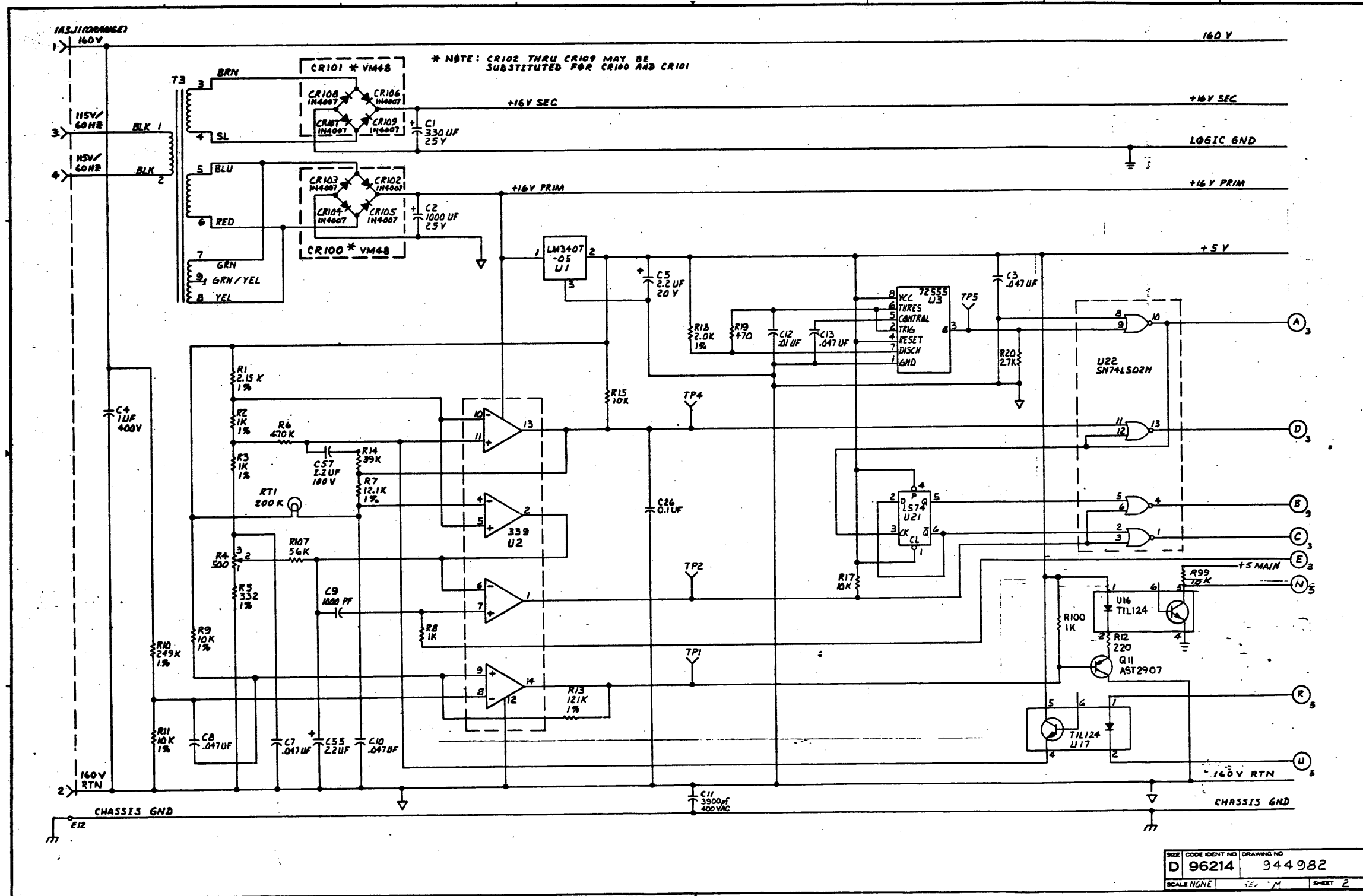
- 00 AND 04 = DEVICE TYPE
 4, 5 AND 6 = PIN NUMBERS
 U6 AND U10 = REFERENCE DESIGNATOR
5. ALL RESISTORS 1/4 WATT, 5%

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	CN40712B (C) S. D. Duggan	6-22-76
	B	CN40763B (C) R. J. Jones	9/17/76
	C	CN41022B (C) R. J. Jones	9/16/76
	D	CN41814B (C) H. G. Galt (D) HIGHEST REF DES WAS C56 (R) SH 8, 2, 6 WAS 29K (D) SH 4, C42 WAS 2.2UF 20V (M) SH 4, R48 WAS 100K (D) SH 2 ADDED C57	10-4-76
	E	CN41803T (D) D. W. Hall	11-9-76
	F	CN42427G (C) D. W. Hall	5-4-77
	G	CN42634G (C) D. W. Hall	7-22-77
	H	CN42903T (C) H. Galt	2-20-78
	J	CN43001B (C) R. J. Jones	4-3-78
	K	CN441011 (C) R. J. Jones	6-21-78
	L	CN450256 (E) E. M. Jones	7-26-79
	M	CN433325 (E) D. Galt	7-26-79
	N	CN448680 (C) R. J. Jones	10-5-79
	P	CN462281 (C) R. J. Jones	4-3-80

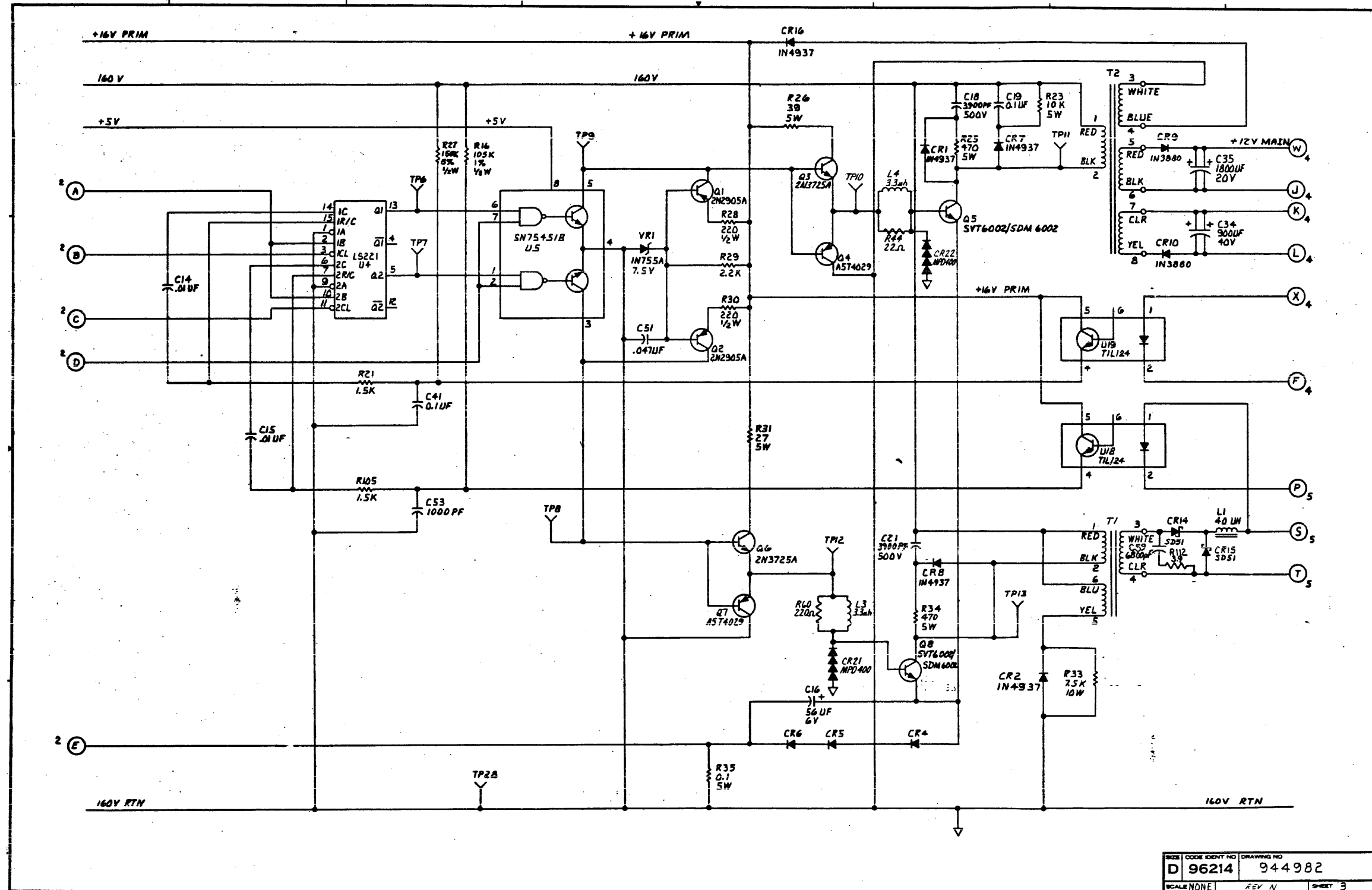
HIGHEST REFERENCE DESIGNATIONS USED			
C59	CR20	L2	P4
Q21	R112	RT3	T3
TP32	U23	VR7	

REFERENCE DESIGNATIONS NOT USED			
CR3	R70	CR13	
RSZ	REK	REK	
TP3	C17		

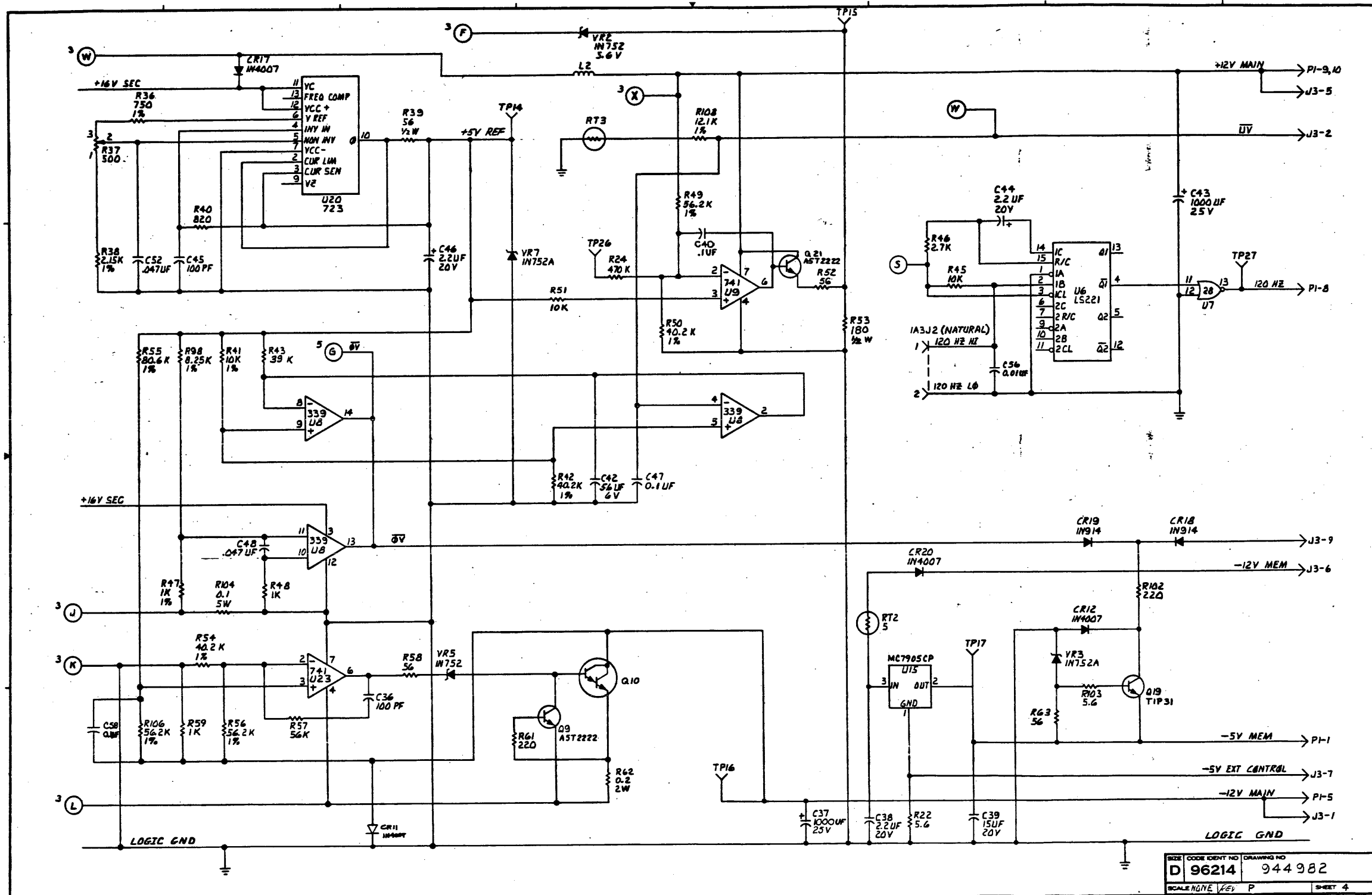
REV STATUS	REV	P	M	N	P	L	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION								
OF SHEETS	SHEET	1	2	3	4	5														
<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIN DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 																				
<p>HOLE TOLERANCE</p> <table border="1"> <tr> <td>.015 +.004</td> <td>.125 +.005</td> <td>.251</td> </tr> <tr> <td>THRU -.001</td> <td>THRU -.001</td> <td>THRU +.006</td> </tr> <tr> <td>.125 -.001</td> <td>.250 -.001</td> <td>.500 -.001</td> </tr> </table>												.015 +.004	.125 +.005	.251	THRU -.001	THRU -.001	THRU +.006	.125 -.001	.250 -.001	.500 -.001
.015 +.004	.125 +.005	.251																		
THRU -.001	THRU -.001	THRU +.006																		
.125 -.001	.250 -.001	.500 -.001																		
<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±0.10 2 PLACE DECIMALS ±0.02 																				
<p>DATE: 3-11-76 BY: C. KEELER DATE: 4-9-76 DATE: 2-9-76 DATE: 1-6-76 DATE: 4/76</p>																				
<p>TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas</p>																				
<p>ELECTRONIC SCHEMATIC DIAGRAM, POWER SUPPLY, 40 AMP, 990</p>																				
<p>SIZE: D CODE IDENT NO: 96214 DRAWING NO: 944982</p>																				
<p>SCALE: NONE SHEET 1 OF 5</p>																				



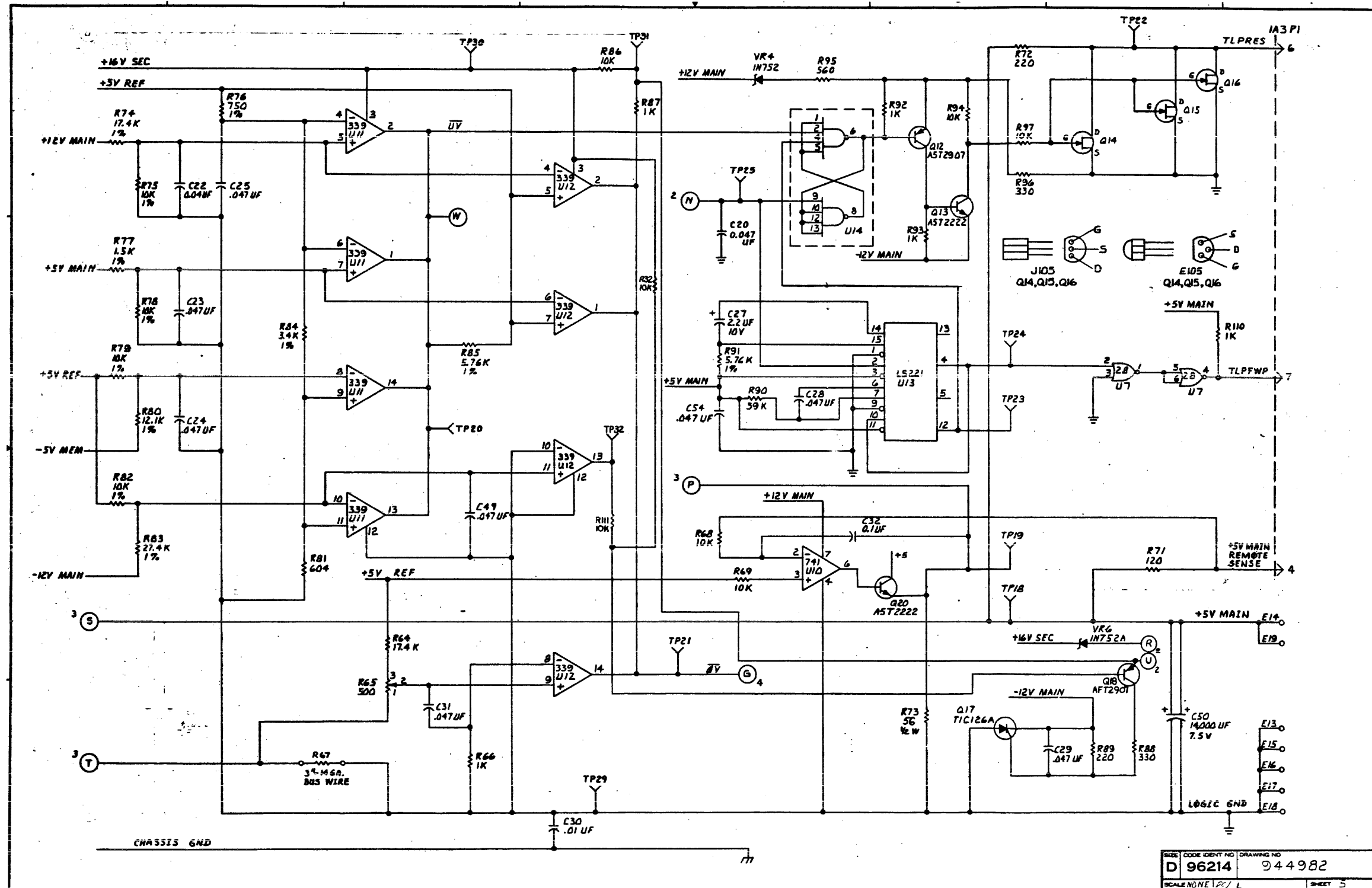
SIZE	CODE IDENT NO	DRAWING NO
D	96214	944982
SCALE	NGNE	SHEET 2



SIZE	CODE IDENT NO	DRAWING NO
D	96214	944982
SCALE NONE	REV N	SHEET 3



SIZE	CODE IDENT NO	DRAWING NO
D	96214	944982
SCALE	NONE	KEY P
		SHEET 4



A 945193

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
944980	7506	A	CN413980 IS 15 Pin	4-27-76	[Signature]
		B	CN429040 (E) SD order	2-3-78	[Signature]
		C	CN426266 (C) ASSEMBLY IS IMPROVED SH 3	5-2-79	E. Niay

REV	SHEET	REV	SHEET
		B	B
		1	2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES
 ANGLES ±1°
 3 PLACE DECIMAL ±010
 2 PLACE DECIMAL ±02

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100

DESIGNED BY: S. Dodson 3-25-76
 ENGR: B. Delaney 3/25/76
 QA: [Signature] 3/26/76
 APVD: S. Dodson 3/30/76
 CONTR NO: [Signature] 3/31/76
 DESIGN ACTIVITY RELEASED BY: MFG ENGR [Signature] 3/30/76

TEXAS INSTRUMENTS
 INCORPORATED
 Equipment Group Dallas, Texas

WIRING LIST, 40 AMP POWER SUPPLY

SIZE: A CODE IDENT NO: 96214 DRAWING NO: 945193
 SCALE: NONE SHEET: 1 OF 3

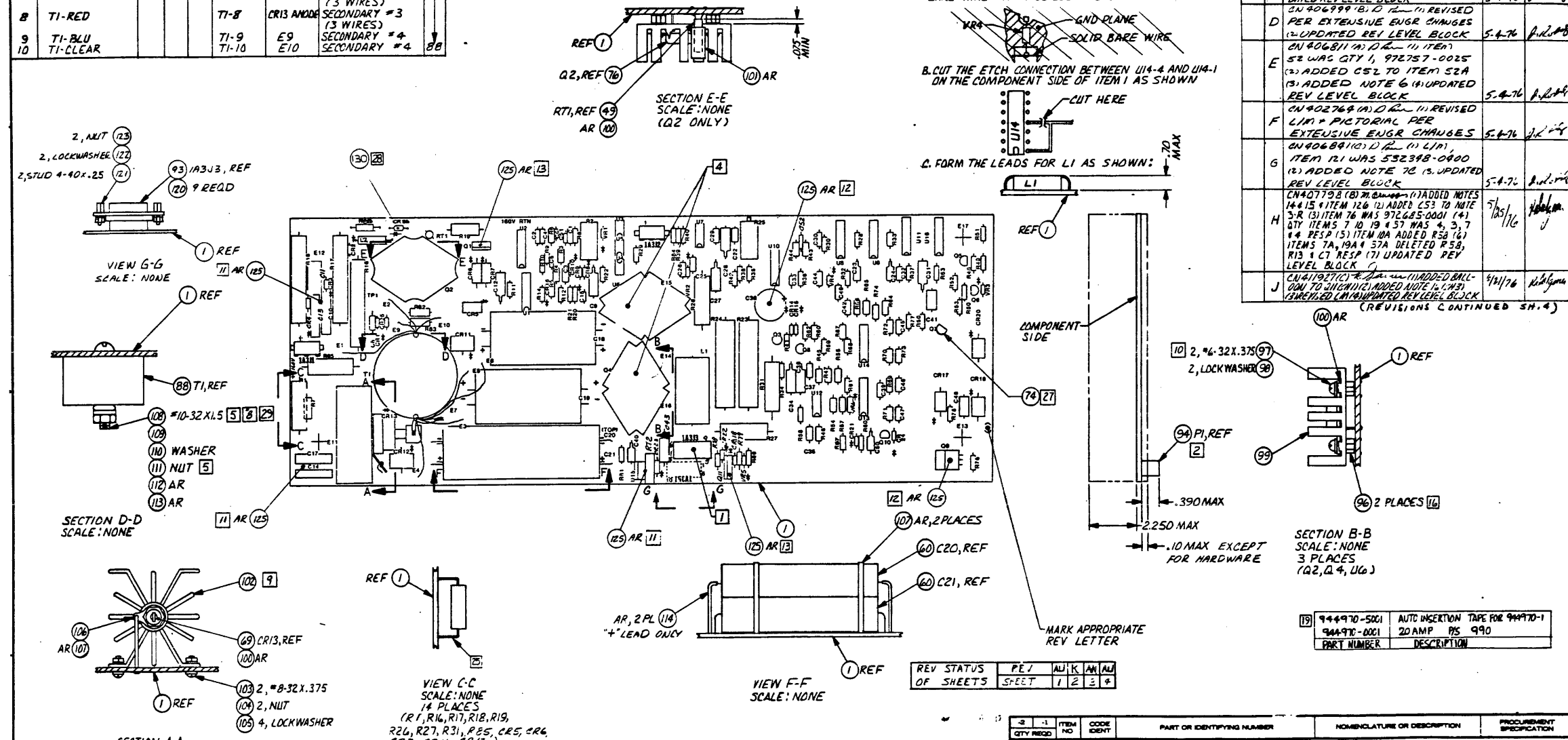
WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
1	T1 - RED				T1-1	11		38
2	T1 - BLACK				T1-2	12		38
3	T1				T1-3	CR14 ANODE		171
4	T1				T1-4	14		171
5	T1 - YELLOW				T1-5	15		38
6	T1 - BLUE				T1-6	16		38
7	T2 - RED				T2-1	21		39
8	T2 - BLACK				T2-2	22		↑
9	T2 - WHITE				T2-3	23		↓
10	T2 - BLUE				T2-4	24		↓
11	T2 - RED				T2-5	25		↓
12	T2 - BLACK				T2-6	26		↓
13	T2 - CLEAR				T2-7	27		↓
14	T2 - YELLOW				T2-8	28		↓
15	T3 - BLACK				T3-1	31		↓
16	T3 - BLACK				T3-2	32		↓
17	T3 - BROWN				T3-3	33		↓
18	T3 - SLATE				T3-4	34		↓
19	T3 - BLUE				T3-5	35		↓
20	T3 - RED				T3-6	36		↓
21	T3 - GREEN				T3-7	37		↓
22	T3 - YELLOW				T3-8	38		↓

SIZE: A CODE IDENT NO: 96214 DRAWING NO: 945193
 SCALE: NONE REV: B SHEET: 2

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	COMPONENT CONNECTION FOR THIS STATION	COMPONENT CONNECTION FOR OTHER STATION	REMARKS	REF. LETTER
1	TI - BLK			TI-1	E1	PRIMARY	8B
2	TI - WHT			TI-2	E2	PRIMARY	
3	TI - YEL			TI-3	E3	SECONDARY #1	
4	TI - RED			TI-4	E4	SECONDARY #1	
5	TI - BLK			TI-5	E5	SECONDARY #2	
6	TI - WHT			TI-6	E6	SECONDARY #2	
7	TI - YEL			TI-7	E7	SECONDARY #3 (3 WIRES)	
8	TI - RED			TI-8	CR13 ANODE	SECONDARY #3 (3 WIRES)	
9	TI - BLU			TI-9	E9	SECONDARY #4	
10	TI - CLEAR			TI-10	E10	SECONDARY #4	8B

NOTES: CONTINUED
 D. DRILL THE TWO COLLECTOR MOUNTING HOLES FOR Q2 WITH A #10 DRILL (NOTES CONTINUED SHEET 2)

NOTES:
 1. CONNECTOR REPT. PN 800645-0002 MAY BE SUBSTITUTED FOR ITEM 93 IF SOCKET CONTACTS PN 800655-0006 IS ALSO SUBSTITUTED FOR ITEM 120.
 2. CONNECTOR PN 972842-0001 MAY BE SUBSTITUTED FOR CONNECTOR, ITEM 94, PN 972844-0001
 3. REWORK PROCEDURE REQUIRED FOR PWB, REV A, ONLY:
 *CONNECT THE INSIDE OF U14 TO THE GND PLANE ON THE COMPONENT SIDE OF ITEM 1 WITH .250 INCHES OF SOLID BARE WIRE PN 44400-0024 AS SHOWN



ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		REVISED PER EXTENSIVE ENG CHANGES		
FORMAL RELEASE				
B		CU 40752 (B) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5-4-76	J.R.L.
C		CU 40752 (B) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5-4-76	J.R.L.
D		CU 40699 (B) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5-4-76	J.R.L.
E		CU 40681 (A) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5-4-76	J.R.L.
F		CU 40276 (A) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5-4-76	J.R.L.
G		CU 40689 (A) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5-4-76	J.R.L.
H		CU 40779 (B) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	5/15/76	J.R.L.
J		CU 41927 (C) REVISED PER EXTENSIVE ENGR CHANGES (UPDATED REV LEVEL BLOCK)	9/11/76	J.R.L.

REV LEVEL	TEST PROCEDURE	SCHEMATIC	PWB	ASSY	DESCRIPTION	DATE	APPROVED
	944973-99011	944972-99011	944971-0001	944970-0001	20 AMP PS 990	1-7-76	J.R.L.

UNLESS OTHERWISE SPECIFIED:
 1. REMOVE ALL BURRS AND SHARP EDGES
 2. CONCENTRICITY MACHINED DIAMETERS .010 PER
 3. DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
 4. IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
 5. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS ARE IN INCHES
 2. TOLERANCES
 ANGLES ±1°
 3 PLACE DECIMALS ±0.10
 2 PLACE DECIMALS ±0.02

DESIGN ACTIVITY RELEASE
 1/30/76

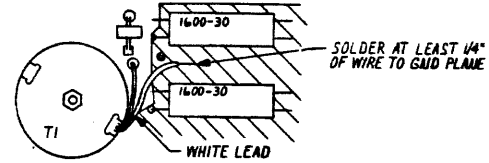
POWER SUPPLY, 20 AMP, 95D

SIZE CODE IDENT NO DRAWING NO
 D 96214 544970

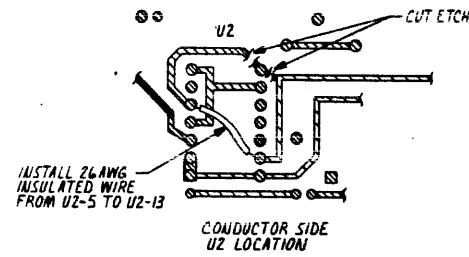
SCALE 1/1 SHEET 1 OF 4

NOTES COMTD:

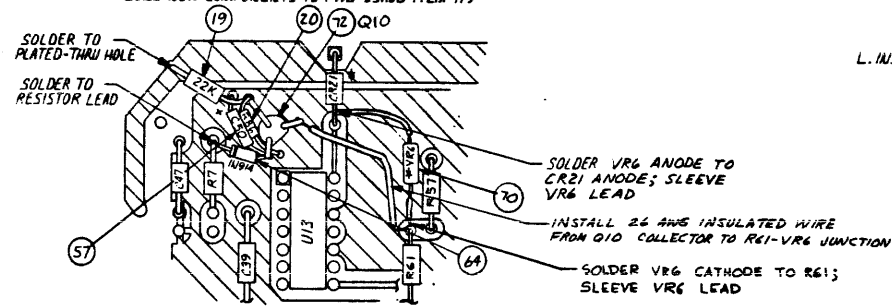
3. E. ATTACH WHITE LEAD FROM XMFR AS SHOWN BELOW:



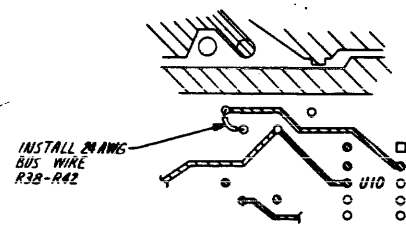
F. MAKE ETCH CUTS AND INSTALL JUMPER WIRE AS SHOWN BELOW:



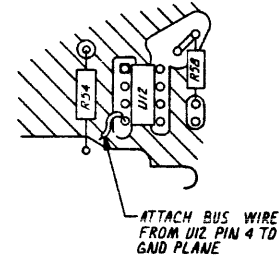
G. INSTALL COMPONENTS AS SHOWN BELOW:
(LOCATED NEAR U13)
BOND NEW COMPONENTS TO PWB USING ITEM 119



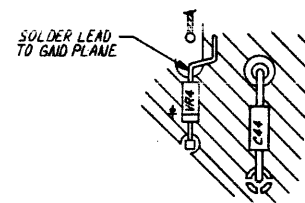
H. INSTALL 24 AWG BUS WIRE AS SHOWN BELOW:



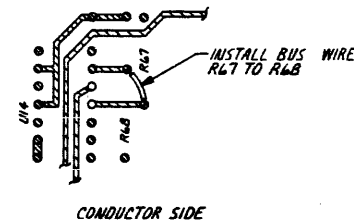
J. INSTALL 24 AWG BUS WIRE AS SHOWN BELOW:



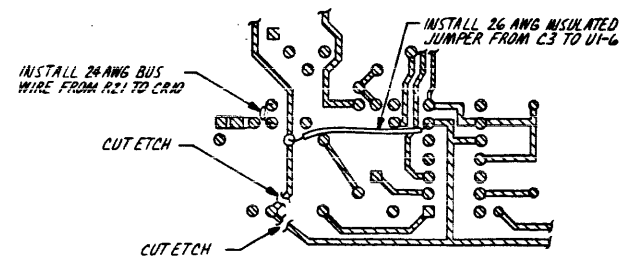
K. INSTALL VR4 SO THAT THE ANODE LEAD IS SOLDERED TO THE GROUND PLANE AS SHOWN BELOW:



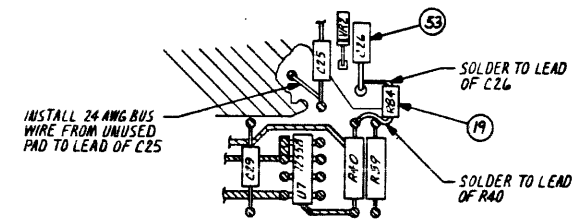
L. INSTALL BUS WIRE JUMPER FROM R67 TO R68



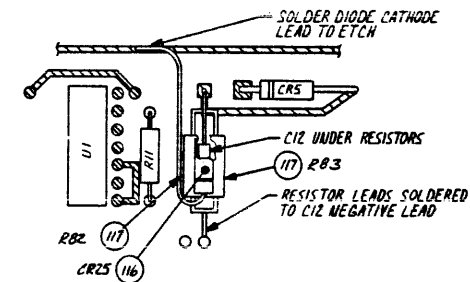
M. CUT ETCH AND INSTALL JUMPERS AS SHOWN BELOW:



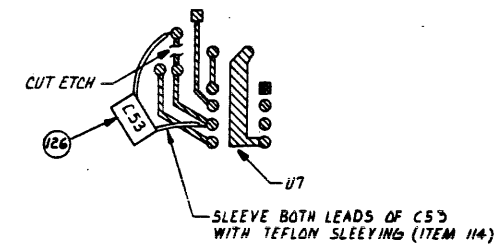
N. INSTALL BUS WIRE AND R24 AS SHOWN BELOW:



P. INSTALL RESISTORS AND DIODE OVER CAPACITOR C12 AS SHOWN BELOW:
BOND NEW COMPONENTS TO C12 USING ITEM 119



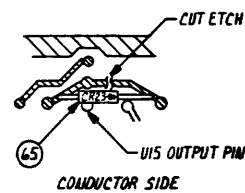
R. CUT ETCH ON CONDUCTOR SIDE OF BOARD NEAR U7 AS SHOWN BELOW:



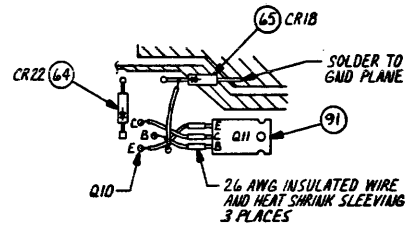
SIZE	CODE IDENT NO	DRAWING NO
D	96214	944970
SCALE	AN/AE	K
		SHEET 2

NOTES CONTD:

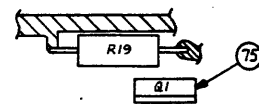
3. S. CUT ETCH AND INSTALL CR23 (1M4007) AS SHOWN:



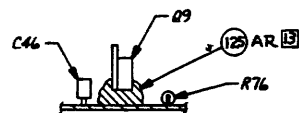
T. INSTALL A WIRE FOR R80, Q11 (TIP31B) AND CR18 (1M4007) AS SHOWN WITH PLASTIC SIDE OF Q11 DOWN ON PWB CONNECTED TO Q10 LOCATION USING INSULATED WIRE AND HEAT SHRINK FOR HOOK-UP. BOND Q11 TO PWB USING ITEM 119. CR18 WAS REMOVED FROM SILKSCREEN LOCATION NEXT TO C48.



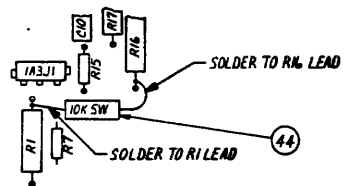
U. POSITION Q1 AS SHOWN BELOW:



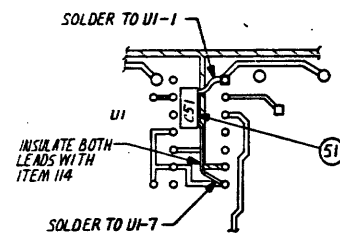
V. SECURE Q9 TO PWB USING A FILLET OF ITEM 125 AS SHOWN BELOW:



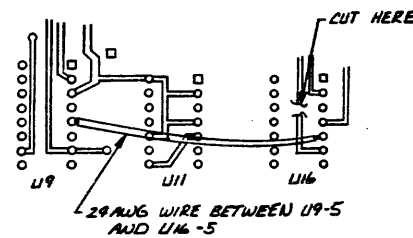
W. INSTALL A 10K SW RESISTOR AS SHOWN BELOW:



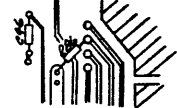
Y. INSTALL C51 AS SHOWN BELOW. PIN 972929-0397 MAY BE SUBSTITUTED



Z. CUT THE ETCH SHOWN AND CONNECT U9-5 TO U16-5 USING 24 AWG INSULATED WIRE AS SHOWN.



AA. INSTALL A 1K RESISTOR, ITEM 14, R86, AS SHOWN NEAR C96

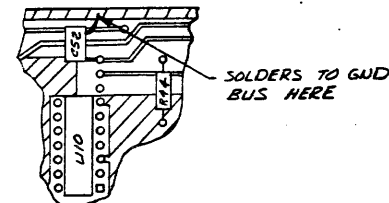


REWORK PROCEDURE FOR REV A COND. NOTE 6 & 7

- 4 HEATSINKS SHALL NOT CONTACT EACH OTHER
- 5 SEAL ITEM 108 AND 111 PER PROCESS 3

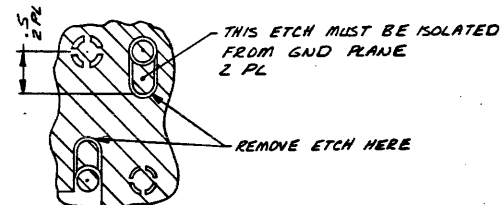
6. REWORK PROCEDURE REQUIRED FOR PWB, REV A ONLY:

A. INSTALL C52 AS SHOWN: BETWEEN GND BUS AND 120 Hz HI

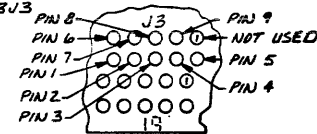


7. REWORK PROCEDURE REQUIRED FOR PWB, REV A ONLY:

A. CUT THE ETCH UNDER R23 AND R24 ON THE COMPONENT SIDE OF THE PWB AS SHOWN:



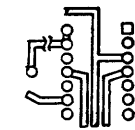
B. INSTALL ITEM 93 (WITH ITEMS 120, 121, 122, AND 123 ATTACHED) IN THE J3 LOCATION WHICH IS MARKED FOR A 10-PIN CONNECTOR. THE LEAD SPACING IS INCORRECT ON THE PWB AND THE CONNECTOR LEADS WILL HAVE TO BE FORMED TO FIT INTO THE HOLES AS SHOWN. BEND RT2 OVER TO PROVIDE CLEARANCE BETWEEN IT AND THE CONNECTOR



C. BOND 1A3U3, ITEM 93, TO ITEM 1 WITH ITEM 125

- 8 TORQUE TO 2 ± 0.5 IN-LBS
- 9 UNANODIZED MOUNTING FOOT IN CONTACT WITH ITEM 1
- 10 TORQUE TO 9 ± 1.0 IN-LBS
- 11 BOND THESE TWO COMPONENTS TOGETHER WITH ITEM 125
- 12 BOND TO ITEM 1 WITH ITEM 125.
- 13 REINFORCE LEADS WITH ITEM 125.
- 14 ON A AND 6 REV PWB REMOVE R13 AND C7. REPLACE C7 WITH #24 AWG INSULATED WIRE
- 15 ON 6 THRU X REV BOARDS PARALLEL RESISTOR R84 WITH ITEM 126, C55, INSULATE CAPACITOR LEADS WITH ITEM 114
- 16 SOLDER TO ETCH SIDE OF ITEM 1

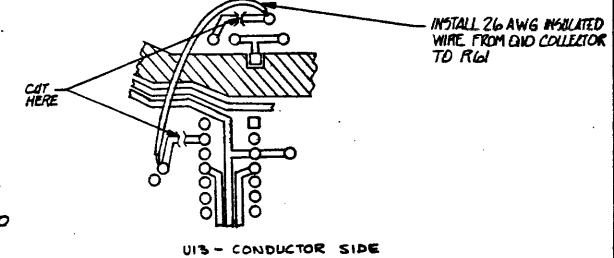
17. ETCH CUT REQD FOR PWB, REV A, ONLY:



U13- CONDUCTOR SIDE

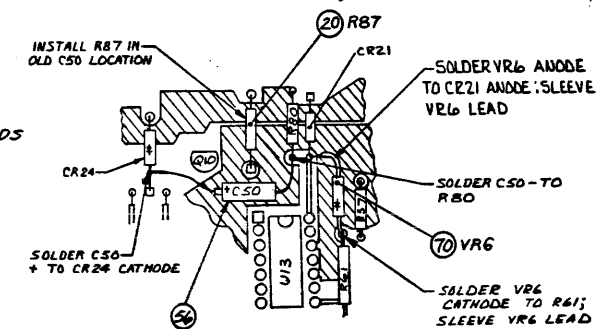
18. REWORK PROCEDURE REQUIRED FOR PWB, REV 6, ONLY:

A. CUT ETCH AND INSTALL JUMPER AS SHOWN:



U13- CONDUCTOR SIDE

B. INSTALL COMPONENTS AS SHOWN BELOW: (LOCATED NEAR U13)

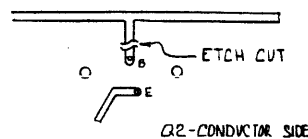


19. ITEM 131 IN -2001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED AND MOUNTED IN -5001 LM.

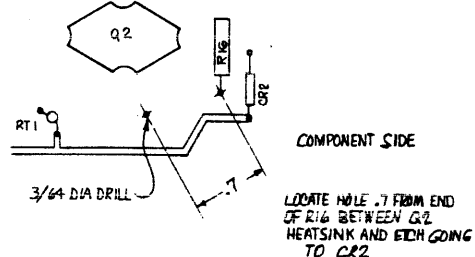
SIZE	CODE IDENT NO	DRAWING NO
D	96214	944970
SCALE NONE	REV AN	SHEET 3

20. REWORK PROCEDURE REQUIRED FOR PWB, REV G AND H ONLY

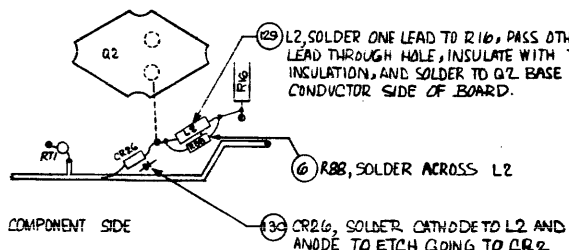
A. CUT ETCH GOING TO BASE OF Q2 AS SHOWN:



B. DRILLABLE NEAR Q2 AS SHOWN:



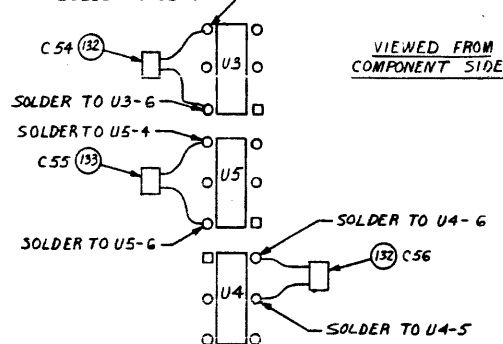
C. INSTALL R88, CR26, AND L2 AS SHOWN:



D. RIG (ITEM 45), C11 (ITEM 61), Q2 (ITEM 76), AND C8 (ITEM 129) MUST BE PER CURRENT LM

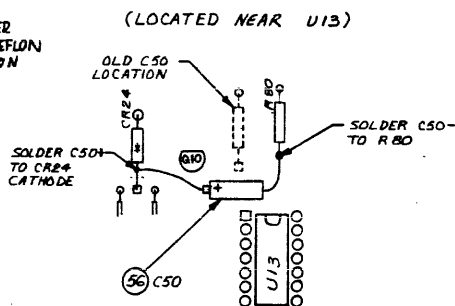
21. REWORK PROCEDURE REQUIRED FOR PWB, REV G THRU L

A. INSTALL COMPONENTS AS SHOWN: SOLDER TO U3-4



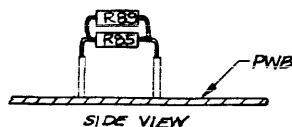
22. REWORK PROCEDURE REQUIRED FOR PWB, REV H THRU L:

A. INSTALL COMPONENTS AS SHOWN BELOW: (LOCATED NEAR U13)



25. COIL PN 538 432-0008 MAY BE SUBSTITUTED FOR COIL (ITEM 123) PN 538 295-0004

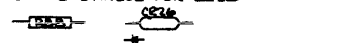
24. REWORK PROCEDURE REQUIRED FOR PWB 944971, REV G AND ABOVE. A. INSTALL R89, ITEM 44, ABOVE R85 BY SECURING AND SOLDERING R89 TO BOTH ENDS OF R85 AS SHOWN.



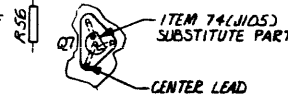
ZONE	LTR	DESCRIPTION	DATE	APPROVED
AF		CN446502 (C) 1. SH4 (1) 500 (2) 1. ITEM 14 QTY WAS 6. (2) - EDCI LM ADDED ITEM 134. (3) UPDATED REV LEVEL BLOCK	10-26-78	J. R. Pitt
AG		CN446505 (C) 1. SH4 (1) SHEET 4, NOTE 21 (2) DELETED AND ADDED AS NOTE 24. (2) UPDATED REV LEVEL BLOCK	12-24-78	J. R. Pitt
AH		CN441371 (C) 1. SH4 (1) LM -0001 DELETED ITEMS 1, 79, 80, 81, 83, 85, 86 + 87 (2) LM -5001 ADDED ITEMS 1, 79, 80, 81, 83, 85, 86 + 87 (3) UPDATED REV LEVEL BLOCK	1-19-79	E. Wang
AJ		CN441716 (C) B. BLOC (1) ADDED FLAG NOTE 25 TO VIEW C-C (2) CN 5442N B-4 ADDED NOTE 25 (3) UPDATED REV LVL BLK	1-19-79	E. Wang
AK		CN 444828 (C) L.T.H. (1) REVISED NOTE 15 SHT 3 (2) ADDED NOTE 26 SHT 4 (3) LM ITEM 113 ON-0001 WAS QTY .050 (4) UPDATED REV LEVEL BLOCK	3-14-79	E. Wang
AL		CN448763 (E) B. BLOC (1) SH4, ADDED NOTE 27 (2) UPDATED REV LEVEL BLOCK (3) SH 1 EN BC-3, ADDED BALLOON (79) AND FLAG NOTE 27	5-2-79	E. Wang
AM		CN433365 (D) B. BLOC (1) REVISED NOTE 27 (2) ITEM 74 P/N WAS 972063-0001 (3) UPDATED REV LEVEL BLDCK (4) DELETED ITEM 119 (5) NOTE 3 WCA LLOUT WAS 119 FILLET RTV	8-23-79	J. R. Pitt
AN		CN 433369 (E) B. BLOC (1) ADDED BALLOON 133 TO SHEET 1 (2) ADDED NOTE 28 TO SHEET 4	10-23-79	E. Wang
AP		CN461377 (D) E. BLOC (1) DELETED ITEM 114 AND .375 DIM. FROM VIEW C-C (2) LM ITEM 114 ON-0001 WAS QTY .050 (3) UPDATED REV LEVEL BLOCK	5-2-79	J. R. Pitt
AR		CN435054 (E) B. BLOC (1) LM-0001 ITEM 101 REVISED (2) UPDATED REV LEVEL BLOCK REV CON = 2 UNG A4	5-2-79	J. R. Pitt

25. ALTERNATE MEANS, SUCH AS LEAD CRIMPING, MAY BE USED TO SPICE THE RESISTORS AWAY FROM THE PWB AS LONG AS A MINIMUM OF .20 INCHES CLEARANCE IS MAINTAINED.

26. REWORK PROCEDURE REQUIRED FOR PWB, REV G THRU M. A. ADD DIODE SYMBOL FOR CR26 AS SHOWN.



27. FOR ALL REVISION LEVELS OF THIS ASSY, WHERE ITEM 74, PART NO 221237-0001 IS CALLED OUT IN L/M, A SUBSTITUTE PART (J105) PART NO 972063-0001 MAY BE USED. P. REP. AND INSTALL ITEM 74 PART NO. 221037-0001 AS SHOWN BELOW FOR PWB 944971 REV (P) AND BELOW FOR PWB 944971 REV (R) AND ABOVE INSTALL ITEM 74 PER COMPONENT OUTLINE MARKING ON PWB.



28. DIODE MPD 400 P/N 231784-6002 MAY BE SUBSTITUTED FOR ITEM 130

29. FLAT WASHER NOT REQUIRED CONDUCTOR SIDE

AT		CN 456183 (C) G. BLOC (1) SH4 FLAG NOTE 25 WAS MIN OF .35" (2) UPDATED REV LEVEL BLOCK	1-8-80	J. R. Pitt
AU		CN452722 (C) G. BLOC (1) ADDED 29 SHT 4 (2) NOTED 29 ON SHT 1 EN BT (3) DELETED ITEM 20 FROM -0001 L/M (4) ADDED IT TO -5001 L/M (4) ON -5001 L/M QTY ITEM 20 WAS 1 (5) UPDATED REV LEVEL BLOCK	2-26-80	J. R. Pitt

ZONE	LTR	DESCRIPTION	DATE	APPROVED
K		CN407661 (B) J. BLOC (1) REVISED NOTE 3 SH. 2 (2) ON SH. 3 ADDED NOTES 17 AND 18 (3) L/M QTY OF ITEM 20 WAS 1.0, OF ITEM 55 WAS 4.0, OF ITEM 57 WAS 3.0, AND OF ITEM 70 WAS 4.0 (4) L/M ADDED "R84" TO ITEM 20A, "L50" TO 57A, AND "VRL" TO 70A (5) L/M, DELETED C50 FROM ITEM 55A (6) ADDED SH. 4 (7) UPDATED REV LEVEL BLOC	6/12/78	J. R. Pitt
L		CN414036 (D) J. BLOC (1) UPDATED REV LEVEL BLOCK (2) L/M, ITEM 81 P/N WAS 971000-1 (3) ITEM 114 P/N WAS 410499-0010 (4) ITEM 101 WAS 417177-0181, SLEEVE, PVC (5) CHANGED QTY'S IN L/M; ITEM 101, 107, 112, 113, 114, 119, 125 WERE "AK" QTY	9/15/78	J. R. Pitt
M		CN425770 (C) J. BLOC (1) SH4, NOTE 18-B, 107 HAS BALLOON LM ITEM 20A, 187 HAS 133 (2) UPDATED REV LEVEL BLOC (3) SH 1 EN BC-3	10-15-78	J. R. Pitt
N		CN419559 (D) J. BLOC (1) ADDED TEST PROC. & UPDATED REV LEVEL BLOC (2) SH 1 EN BC-3	10-16-78	J. R. Pitt
P		CN422705 (C) J. BLOC (1) REVISED LM ITEMS 5-21, 117, 1127 (2) UPDATED REV LEVEL BLOCK	1/20/79	J. R. Pitt
R		CN422648 (D) C. SLOC (1) ADDED COMPONENTS TO MAIN DRAWING, SHT 1 (2) REVISED LM (3) UPDATED REV LEVEL BLOC	1/21/79	J. R. Pitt
S		CN397997 (C) C. SLOC (1) NOTE 16 WAS SOLDER BOTH SIDES (2) UPDATE REV LEVEL BLOCK	1/21/79	J. R. Pitt
T		CN420030 (C) C. SLOC (1) REVISED NOTE 18, SHT 3 (2) UPDATED REVISION LEVEL BLOCK	1/20/79	J. R. Pitt
U		CN420461 (C) C. SLOC (1) LM, ITEM 108 P/N WAS 972986-0016 (2) UPDATED REVISION LEVEL BLOCK	4/6/79	J. R. Pitt
V		CN420222 (E) J. BLOC (1) UPDATED REV LEVEL BLOC	5-19-79	J. R. Pitt
W		CN417174 (E) C. SLOC (1) LM DELETED ITEMS 5, 7, 9 THRU 19, 21 THRU 39, 50 THRU 52, 54 THRU 57, 64 THRU 66, 71, 115, 116, AND 127 (2) LM-1 ITEMS 6, 8, 20, AND 70 (3) WAS 2, 4, 2, AND 5 RES 151 ADDED ITEM 151 TO L/M (4) DELETED -0001 L/M (5) ADDED NOTE 19 (6) SH 1 EN BC-3 ADDED PART NUMBER DESCRIPTION, BLOC (7) UPDATED REV LEVEL BLOC	8-25-79	J. R. Pitt
Y		CN426307 (B) C. SLOC (1) LM ITEM 71 P/N WAS 971000-0002 (2) UPDATED REV LEVEL BLOC	8-25-79	J. R. Pitt
AA		CN427373 (B) C. SLOC (1) ADDED REWORK NOTE 20 (2) LM ADDED ITEM 126 (3) UPDATED REV LEVEL BLOCK	10-17-79	J. R. Pitt
AB		CN425288 (A) J. BLOC (1) ON-0001 LM, QTY ITEM 44 WAS 2, ON-5001 LM, QTY ITEM 56 WAS 5, QTY ITEM 57 WAS 4 (2) ADDED ITEMS 132 AND 133 (3) REVISED PICTORIAL OF NOTE 18B (4) ADDED REWORK NOTES 21 AND 22 (5) UPDATED REV LEVEL BLOCK	2-15-78	J. R. Pitt
AC		CN424920 (B) J. BLOC (1) ON-0001 LM, ITEM 129 WAS PN 538433-0002, ITEM 101 WAS PN 372437-0002 (2) ADDED NOTE 23 (3) UPDATED REV LEVEL BLOCK	3-1-78	J. R. Pitt
AD		CN441013 (C) J. BLOC (1) ON-0001 LM, ITEM 63 WAS 72669-0001 (2) UPDATED REV LEVEL BLOC	7-8-78	J. R. Pitt
AE		CN451129 (B) RCHM (1) CLASS OF CRG FOR REV Y WAS C (2) UPDATED REV LEVEL BLOC	9-13-78	E. Wang

SIZE	CODE	IDENT NO	DRAWING NO
D	96214	944970	
SCALE	REV	AU	SHEET 4

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944970-0001		REV AU	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		0944972-9901	SCHEMATIC DIAG, POWER SUPPLY, 20A, 990						
0005	REF	EA		0944973-9901	TEST PROCEDURE, POWER SUPPLY, 20A, 990						
0006	REF	EA		0944974-9901	SPECIFICATION, POWER SUPPLY, 20A, 990						
0006	00001.000	EA		0972976-0049	RES FIXED 27 OHMS 1/4 W 5% R88						
0006A											
0008	00001.000	EA		0972976-0065	RFS 120 OHM .25W 5% FX COMP INSULATED R76						
0008A											
0039	00007.000	EA		0539795-0009	RES VAR CERMET 5.0 K OHMS 10 % .75 WATT R2 R25	80U	-3069P-1-502				
0039A											
0041	00001.000	EA		0972833-0001	RES, FIX 0.1 OHM 10% 2W R19						
0041A											
0042	00002.000	EA		0972942-0048	RES, FIXED 0.2 OHMS 10% 5 WATT R26 R31						
0042A											
0043	00001.000	FA		0972942-0001	RFS FIX 10 OHM 5% 5W R27						
0043A											
0044	00003.000	EA		0972942-0029	RES FIX 10.0 K OHMS 5% 5 WATT WIREWOUND R1 R85 R89	OHM	- 995-4654				
0044A											
0045	00001.000	EA		0972687-0053	RESISTOR, 15 OHMS 5% 10W FX, PWR W/W R16	012463-Y-10-78					
0045A											
0046	00002.000	FA		0996068-0010	RES FIXED 75 OHMS 20W 5% POWER WIREWOUND OHM	- 200-20					
0046A											
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	POWER SUPPLY, 20 AMP, 990				
		J.R. Rohy	2-13-80								
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	REV		
						7506		LM0944970-0001	AU		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944970-0001		REV AU	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0046A					R23 R24						
0047	00001.000	EA		0972687-0100	RES, FIX, 220 OHM 5% 10W R18						
0047A											
0048	00001.000	FA		0972687-0170	RES, FIX 10K OHM 5% 10W R17						
0048A											
0049	00001.000	EA		0972714-0001	THERMISTOR-GLASS PROBE MTD, 200K OHM RT1						
0049A											
0053	00003.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V C26, C41, C48	OPL	- CK068X104K				
0053A											
0058	00001.000	EA		0972711-0047	CAP FIX 1500MF +75% -10% 10V C38						
0058A											
0059	00002.000	EA		0972931-0082	CAP., FIXED, ELECTROLYTIC, 1500 UF, 40V C18 C19						
0059A											
0060	00002.000	FA		0972931-0023	CAP, FIXED 11,000 UF 7.5 V 4 LEAD C20 C21						
0060A											
0061	00001.000	EA		0972928-0024	CAP FIX MICA 500V 5000PF 5% C11	OPL	- CM06F502J00				
0061A											
0062	00003.000	FA		0412645-0015	CAPACITOR, .1 UF +80, -20% 500VDC CER DIEI C10 C13 C17	SPR	-41C92				
0062A											
0063	00001.000	EA		0996810-0007	CAPACITOR, 3900PF 400V 20% CER, DIN TYPE DRALOR-SDPJ18400VN						
0063A											
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	POWER SUPPLY, 20 AMP, 990				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	REV		
								LM0944970-0001	AU		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944970-0001		REV AU	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0063A					C14						
0067	00006.000	FA		0972164-0001	DIODE, MR 501						
0067A											
0068	00002.000	EA		0972269-0002	CR5 CR6 CR7 CR17 CR19 CR20 DIODE MR821 5 AMP	NOT	- MR821				
0068A											
0069	00001.000	EA		0974816-0001	CR11 CR12 DIODE SD51						
0069A											
0070	00001.000	EA		0972934-0007	CR13 DIODE, 1N752A 5.6 V 5% SIL VOLT REG	OPL	- 1N752A				
0070A											
0072	00002.000	EA		0972057-0001	VR6 TRANSISTOR-A5T2222 NPN SILICON	TI-	-A5T2222				
0072A											
0073	00003.000	EA		0880523-0001	Q6 Q10 TRANSISTOR A5T2907 PNP SILICON	TI-	-A5T2907				
0073A											
0074	00001.000	EA		2210137-0001	Q3 Q5 Q8 TRANS, JFET, LOW RESISTANCE	017056-J105					
0074A											
0075	00001.000	EA		0972573-0001	Q7 TRANSISTOR, TIP125 PNP SILICON DARLINGTON	TI-	-TIP 125				
0075A											
0076	00001.000	EA		0996070-0003	Q1 TRANSISTOR, DARLINGTON, 20 AMP	NAT	- 1R602				
0076A											
0077	00001.000	EA		0972706-0001	Q2 TRANSISTOR, TIP645 PNP SILICON DARL						
0077A											
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	POWER SUPPLY, 20 AMP, 990				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	REV		
								LM0944970-0001	AU		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944970-0001		REV AU	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0077A					Q4						
0078	00001.000	EA		0972546-0002	TRIAC, SILICON-12A TIC126A Q9						
0078A											
0082	00001.000	EA		0972872-0007	NETWORK, LM 320K-12 VOLTAGE REGULATOR U6	-	-				
0082A											
0084	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MCT905CP, -5 VOLT U15	SFE	- TI DRAWING				
0084A											
0088	00001.000	EA		0944680-0001	TRANSFORMER-POT CORE, POWER SUPPLY, 20A T1						
0088A											
0089	00001.000	EA		0945247-0001	INDUCTOR-FERRITE CORE, 10UH 20A P/S L1						
0089A											
0090	00001.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM RT2						
0090A											
0091	00001.000	EA		0958762-0003	XST TIP 318 SOA TESTFD Q11	TI	-TIP318				
0091A											
0092	00001.000	FA		0972423-0001	CONN, PCB HEADER 2CKT 1A3J2						
0092A											
0093	00001.000	EA		0539409-0002	CONNECTOR, RCPT 9 PINS 1A3J3	AMP	-205203-1				
0093A											
0094	00001.000	EA		0972844-0001	CONNECTOR, RECEPTACLE, .150 GRID						
0094A											
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	POWER SUPPLY, 20 AMP, 990				
APPD. ENG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	REV		
								LM0944970-0001	AU		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0944970-0001		REV AU	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0094A					1A3P1						
0095	00001.000	EA		0411218-0002	TERMINAL,STUD						
0095A					TP1						
0096	00006.000	EA		0803153-0029	NUT,SLEEVE,SHLDR,BRASS,6-32X.125						
0097	00006.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0098	00006.000	FA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - M535333-71					
0099	00003.000	EA		0800482-0007	HEATSINK,XISTOR						
0100	AR	TU		0415886-0003	GREASE,SILICONE,HEAT COND.	COR - DC 340					
0101	00000.100	FT		0972144-0005	TUBING, 3/16 D BLK HEAT SHRINK PVC	003890-PO-135-125C					
0102	00001.000	EA		0972677-0002	HEATSINK 1/4-28 X.62 DIODE	WAK - NC-301M					
0103	00002.000	FA		0972988-0043	SCREW 8-32 X .375 PAN HEAD CRES						
0104	00002.000	FA		0411115-0084	NUT,PLAIN 8-32 UNC-28 HEX CRES	QPL - M535649-284					
0105	00004.000	FA		0411100-0072	LOCKWASHER #8 INTERNAL TOOTH CRES	QPL - M535333-72					
0106	00001.000	EA		0535285-0001	TERMINAL, LUG						
0107	00000.200	FT		0414316-0002	WIRE, ELEC, COPPER #14 AWG						
0108	00001.000	EA		0972986-0017	SCREW 10-32 1.75 PAN HEAD CRES						
0109	00001.000	FA		0411161-0009	*O* RING						
0110	00001.000	FA		0411027-0008	WASHER,PLAT,#10						
0111	00001.000	EA		0411116-0104	NUT, PLAIN HEX, #10						
0112	00000.050	TU		0415884-0011	SURFACE PRIMER,COMPOUND GRADE T YELLOW						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE POWER SUPPLY, 20 AMP, 990											
APPD-ENG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0944970-0001 AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0944970-0001		REV AU	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0113	00000.010	QT		0415884-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C						
0114	AR	FT		0972434-0012	INSUL SLEEVING,TEFLON #14 .0661D 16WALL	MKL - TFE-200C-UL-1					
0117	00002.000	EA		0972977-0043	RES,FIXED 15 OHMS 5% 1/2 WATT	QPL - 39008					
0117A					R82 R83						
0120	00009.000	EA		0972422-0002	SOCKET, CONTACT						
0121	00002.000	EA		0532348-0401	STUD, EXTENSION-CRES						
0122	00002.000	EA		0411104-0135	WASHER, LOCK-SPRING, HELICAL, #6	QPL - M535333-135					
0123	00002.000	EA		0414453-0021	NUT,PLAIN,4-40 UNC-28 HEX,CRES,SMALL	QPL - M53671-C4					
0124	00001.000	EA		0972423-0015	CONNECTOR PWB MOUNTED 2 CONTACTS RED	AMP - 2-350428-1					
0124A					1A3J1						
0125	00000.050	EA		0968849-0003	ADM,SOLID,THRMLSTC 250 BAG ANAEROBIC	PERSAL-917-6302					
0126	00001.000	EA		0972965-0020	CAP FIX CERAMIC .047 MF 10% 100V	QPL - CK068X473K					
0126A					C53						
0128	00001.000	EA		0972965-0026	CAPACITOR,.15 UF 10% 50V FX CERAMIC DIE	011015-CK068X154K					
0128A					C8						
0129	00001.000	EA		0538295-0004	COILS,RF 1.80UH .140HMS FX MLD MICROMIN	-M575008-4					
0129A					L2						
0130	00001.000	EA		0231784-0003	DIODE, MULTI-PELLET, 90V	04713M-0A952-2					
0130A					CR26						
0130B					PW 231784-0002 MAY BE USED						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE POWER SUPPLY, 20 AMP, 990											
APPD-ENG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0944970-0001 AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0944970-0001		REV AU	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0130C					AS AN ALTERNATE PART FOR						
0130D					ITEM 130.						
0131	00001.000	EA		0944970-5001	AUTO INSERTION TAPE FOR 944970-1						
0132	00002.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10% 200V	QPL -M39014/01-1397					
0132A					C54 C56						
0133	00001.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 % 200 V	QPL -M39014/01-1379					
0133A					C55						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE POWER SUPPLY, 20 AMP, 990											
APPD-ENG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0944970-0001 AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944970-5001		REV AU	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0944971-0001	PWB, POWER SUPPLY, 20 AMP, 990						
0005	00002.000	FA		0972976-0247	RES FIXED 5.6 OHMS 1/4 W 5% R59 R81						
0005A					R59 R81						
0006	00001.000	EA		0972976-0049	RES FIXED 27 OHMS 1/4 W 5% R21						
0006A					R21						
0007	00003.000	EA		0972976-0055	RES,FIX, 47 OHM, 5%,0.25 W,CARBON COMP. R42 R78 R79						
0007A					R42 R78 R79						
0008	00003.000	EA		0972976-0065	RES 120 OHM .25W 5% FX COMP INSULATED R34 R75 R77						
0008A					R34 R75 R77						
0009	00001.000	EA		0972976-0069	RES,FIX, 180 OHM, 5%,0.25 W,CARBON COMP. R29						
0009A					R29						
0010	00003.000	FA		0972976-0073	RES,FIX, 270 OHM, 5%,0.25 W,CARBON COMP. R20 R56 R61						
0010A					R20 R56 R61						
0011	00001.000	EA		0972976-0077	RES,FIX, 390 OHM, 5%,0.25 W,CARBON COMP. R51						
0011A					R51						
0012	00001.000	FA		0972976-0081	RES FIXED 560 OHMS 1/4 W 5% R38						
0012A					R38						
0013	00001.000	EA		0972976-0083	RES FIXED 680 OHMS 1/4 W 5% R49						
0013A					R49						
0014	00005.000	EA		0972976-0087	RES,FIX,1.0K OHM, 5%,0.25 W,CARBON COMP.						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 944970-1											
APPD-ENG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM0944970-5001 AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944970-5001		REV AU	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014A					R35 R48 R50 R62 R66						
0015	00001.000	EA		0972976-0097	RES FIXED 2.7 K OHMS 1/4W 5%	081349-RCR076272JS					
0015A					R32						
0016	00003.000	EA		0972976-0103	RES FIX 4.7K OHM,5%, .25W,CARBON COMP.						
0016A					R36 R41 R63						
0017	00002.000	EA		0972976-0107	RES FIXED 6.8K OHMS 1/4 W 5%						
0017A					R39 R40						
0018	00004.000	FA		0972976-0111	RFS,10K OHMS .25W 5% FIX,COMP,INSULATED	NIL -RCR076103JS					
0018A					R14 R22 R52 R53						
0019	00006.000	EA		0972976-0119	RES FIXED 22 K OHMS 1/4 W 5%						
0019A					R9 R10 R28 R30 R80 R84						
0020	00002.000	EA		0972976-0125	RES FIXED 39 K OHMS 1/4 W 5%						
0020A					R37 R87						
0021	00001.000	EA		0972976-0143	RES FIXED 220 K OHMS 1/4 W 5%						
0021A					R11						
0022	00001.000	FA		0539370-0263	RFS.,FIXED, 53.6 OHM,1%,.25W						
0022A					R60						
0023	00001.000	FA		0539370-0327	RES FIX FILM 249 OHM 1% .25 WATT	COR - NA55					
0023A					R6						
0024	00001.000	EA		0539370-0364	RES FIX FILM 604 OHM 1% .25 WATT	COR - NA55					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 944970-1											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0944970-5001 REV AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944970-5001		REV AU	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0024A					R68						
0025	00002.000	EA		0539370-0373	RES FIX FILM 750 OHM 1% .25 WATT	COR - NA55					
0025A					R5 R66						
0026	00001.000	EA		0539370-0388	RES FIX FILM 1.07K OHM 1% .25W						
0026A					R44						
0027	00003.000	EA		0539370-0402	RES FIX FILM 1.50K OHM 1% .25 WATT	COR - NA55					
0027A					R43 R57 R72						
0028	00001.000	EA		0539370-0414	RES FIX FILM 2.00K OHM 1% .25 WATT	COR - NA55					
0028A					R4						
0029	00001.000	FA		0539370-0436	RES FIX FILM 3.40K OHM 1% .25 WATT	COR - NA55					
0029A					R67						
0030	00001.000	EA		0539370-0463	RES FIX FILM 6.49K OHM 1% .25 WATT	COR - NA55					
0030A					R3						
0031	00004.000	EA		0539370-0481	RES FIX FILM 10.0K OHM 1% .25 WATT	COR -NA55D-100PPH/C					
0031A					R64 R65 R69 R70						
0032	00001.000	FA		0539370-0489	RES FIX FILM 12.1K OHM 1% .25 WATT	COR - NA55					
0032A					R73						
0033	00001.000	FA		0539370-0504	RES FIX FILM 17.4K OHM 1% .25 WATT	COR - NA55					
0033A					R71						
0034	00001.000	EA		0539370-0518	RES FIX FILM 24.3K OHM 1% .25 WATT	COR - NA55					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 944970-1											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0944970-5001 REV AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944970-5001		REV AU	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0034A					R8						
0035	00004.000	EA		0539370-0523	RES FIX FILM 27.4K OHM 1% .25 WATT	COR -NA55D-100PPH/C					
0035A					R47 R54 R55 R74						
0036	00002.000	EA		0539370-0552	RES FIX FILM 54.9K OHM 1% .25 WATT	COR - NA55					
0036A					R45 R46						
0037	00001.000	FA		0539370-0458	RFS.,FIXED, 5.76K OHM,1%,.25W						
0037A					R33						
0038	00001.000	FA		0539373-0673	RES FIX FILM 1.00M OHM 1% .375 WATT	COR -NA60-100PPH/C					
0038A					R7						
0050	00001.000	FA		0972757-0009	CAP FIX CER 470PF 10% 50V						
0050A					C33						
0051	00003.000	EA		0972757-0013	CAP.,FIXED,AXIAL LEAD,1000 PF,10%,50V						
0051A					C5 C6 C51						
0052	00002.000	EA		0972757-0025	CAP FIX CER .01MF 10% 50V						
0052A					C39 C52						
0054	00017.000	FA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%,-20%						
0054A					C1 THRU C4 C22 C25 C29 C30						
0054B					C32 C35 C37 C42 C44 C45 C46						
0054C					C47 C49						
0055	00003.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT OPL	-M39009/1-2283					
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 944970-1											
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0944970-5001 REV AU											

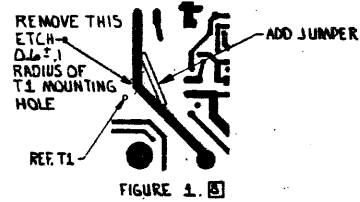
20-Amp Power Supply

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0944970-5001		REV AU	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0055A					C23 C24 C40						
0056	00006.000	FA		0972924-0014	CAP FIX TANT SOLID 15 MFD 10 X 20 VOLT	QPL	-M39003/1-2289				
0056A					C9 C27 C31 C34 C43 C50						
0057	00003.000	FA		0972924-0002	CAP FIX TANT SOLID 56 MFD 10 X 6 VOLT	QPL	-M39003/1-2246				
0057A					C12 C28 C36						
0064	00009.000	FA		0972932-0001	DIODE 1N9148	SEE TI- DRAWING					
0064A					CR8 CR9 CR10 CR14 CP15 CR16						
0064B					CR21 CR22 CR24						
0065	00004.000	EA		0539468-0007	DIODE, 1N4007 1AMP 1000PIV RECTIFIER	TI	-1N4007				
0065A					CR1 CR4 CR18 CR23						
0066	00001.000	FA		0972268-0006	DIODE 1N4937 1 AMP	SEE - TI DRAWING					
0066A					CR3						
0070	00004.000	FA		0972934-0007	DIODE, 1N752A 5.6 V 5X SIL VOLT REG	QPL	- 1N752A				
0070A					VR2 THRU VR5						
0071	00001.000	EA		0418036-0002	DIODE, JAN1N963B						
0071A					VR1						
0079	00002.000	EA		0972463-0001	NETWORK, SN72558P/MC1458P1 OP AMP	SEE - TI DRAWING					
0079A					U7, U12						
0080	00004.000	EA		0972463-0001	NETWORK, LM399N						
0080A					U1, U2, U13, U14						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 944970-1											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0944970-5001 AU											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/11/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0944970-5001		REV AU	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0081	00003.000	FA		0996671-0001	OPTICAL COUPLER YTL 124	001295-YTL 124					
0081A					U3, U4, U5						
0083	00001.000	FA		0972662-0001	NETWORK, SN72723N						
0083A					U10						
0085	00001.000	EA		0972784-0001	NETWORK SN74LS13N						
0085A					U11						
0086	00002.000	EA		0972810-0001	NETWORK-SN74LS221N						
0086A					U8, U9						
0087	00001.000	EA		0222222-7428	NETWORK SN7428N						
0087A					U16						
0115	00001.000	FA		0972757-0021	CAP, FIX, CERAMIC, 4700PF, 50V 10X						
0115A					C15						
0116	00002.000	EA		0972268-0002	DIODE 1N4934-1 AMP	MOT - 1N4934					
0116A					CR2 CR25						
0127	00001.000	EA		0972976-0061	RES FIXED 82 OHMS 1/4 W 5X						
0127A					P58						
0134	00001.000	EA		0972976-0082	RES, FXD, COMPSM (INSUL) 1/4WATT, 620 OHMS	039008-RCR07G621J5					
0134A					R12						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTION TAPE FOR 944970-1											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0944970-5001 AU											

NOTES: (CONTD)

6. REWORK PROCEDURE FOR REV B PWB 944991-0001:
- A. ON CONDUCTOR SIDE OF BOARD ATTACH INSULATED 22 AWG JUMPER WIRES AS FOLLOWS:
- C10 NEGATIVE LEAD TO THE LEAD OF R20 NEAR THE POSITIVE LEAD OF C10
 - JUMPER FROM POSITIVE LEAD OF C10 (NEAR R18) TO R18 LEAD NEAREST PWB EDGE
 - JUMPER FROM POSITIVE LEAD OF C34 (NEAR T2) TO THE CATHODE OF CR16
 - JUMPER FROM POSITIVE LEAD OF C34 (NEAR C39) TO THE LEAD OF L1 NEAREST TO THE EDGE OF PWB
 - JUMPER FROM THE NEGATIVE LEAD OF C34 (NEAR C39) TO THE EMITTER LEAD OF Q7
 - APPLY ITEM (B2) BETWEEN PUB + BODY OF C10 AND BETWEEN PUB + BODY OF C34
7. BOND ITEM (10) MOUNTING TABS TO PWB SURFACE USING ITEM (102)
8. REWORK INSTRUCTIONS FOR 944991-1 REV. E-F B05
- INSTALL JUMPER USING ITEM 150 (24 AWG BUSS) IN POSITION OF L2.
 - ADD ITEM 150 (24 AWG BUSS) BETWEEN ANODE OF CR2 AND END OF R7 NEAREST CR2 ANODE.
 - CUT AND REMOVE ETCH NEAR T1 AS SHOWN IN FIGURE 1, SHEET 2.
 - ADD JUMPER AS SHOWN IN FIGURE 1, SHEET 2 USING ITEM 151+152 (ITEM 151, 20 AWG BUSS, ITEM 152, 20 AWG SLEEVING).



9. ITEM 153 IN -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED AND CONTAINED IN THE -5001 LM.
10. REWORK INSTRUCTIONS FOR 944991-1 REV. G: INSTALL JUMPER USING ITEM 150 (24 AWG BUS) IN POSITION OF L2.
11. DIODE IN 614, P/N 412713-0001 MAYBE SUBSTITUTED FOR ITEM 122.
12. APPLY ITEM (155) TO INSIDE AREA OF ITEM (137).
13. REWORK INSTRUCTIONS FOR 944991-1 REV. G THRU J.
- CUT AND REMOVE ETCH NEAR IN CIRCUIT SIDE AS SHOWN IN FIGURES 2.
 - DRILL ONE NUMBER 50 DRILL SIZE HOLE AS SHOWN IN FIGURE 2.

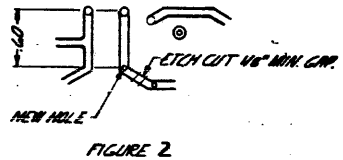


FIGURE 2

NOTE 13 (CONTD)

- C. BEND LEADS OF ITEM (156) OUTWARD, INSERT ITEM (156) INTO 1.20 DIA. LEAD OF HEAT SHRINK TUBING (P/N: 04-99-0008) CENTERING ITEM (156) IN RESPECT TO HEAT SHRINK TUBING. SLEEVE LEADS OF ITEM (156) USING PVC SLEEVING (P/N: 972437-0004). SEE FIGURE 3. APPLY HEAT FROM HEAT GUN TO SHRINK HEAT SHRINK TUBING.

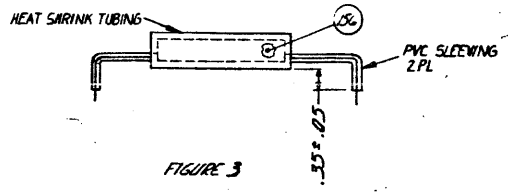


FIGURE 3

- D. INSTALL SLEEVED ITEM (156) CLIMB LEADS AND SOLDER AS SHOWN IN FIGURE 4.

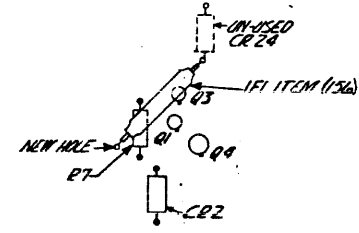
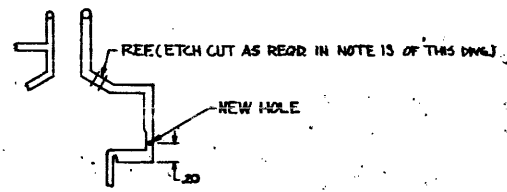


FIGURE 4

14. TORQUE TO A MINIMUM OF 12 INCH POUNDS MAXIMUM OF 15 INCH POUNDS
15. REWORK INSTRUCTIONS FOR PWB 944991 REV. J
- DRILL ONE NUMBER 50 DRILL SIZE HOLE AS SHOWN.



16. ALTERNATE MEANS, SUCH AS LEAD CRIMPING, MAY BE USED TO SPACE THE RESISTORS AWAY FROM THE PWB AS LONG AS A MINIMUM OF .30 INCHES CLEARANCE IS MAINTAINED.
17. REWORK INSTRUCTIONS FOR 944991-1 ALL REV LEVEL THRU I. ADD ITEM 77 C 20 TO R16 AND R14. SOLDER AS SHOWN IN FIGURE 5

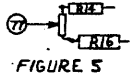


FIGURE 5

18. REWORK INSTRUCTIONS FOR 944991-1 ALL REV LEVEL THRU I. ADD ITEM 30 (R89) TO R8C AND R1. SOLDER AS SHOWN IN FIGURE 6

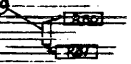


FIGURE 6

19. REWORK INSTRUCTIONS FOR ADDING R90 ITEM S4 3.3K MW RESISTOR ACROSS (WAND) LEADS OF C34 NEAR C39 ON PWB 944991 ALL REVISIONS THRU L. ADD ITEM S4 AND SOLDER AS SHOWN BELOW



FIGURE 7

REVISIONS				REVISIONS			
ZONE	LTR	DESCRIPTION	DATE	APPROVED	ZONE	LTR	DESCRIPTION
		CN 441378 (1) TUM (1) LM -0001 DELETED ITEMS 1, 21, 21A, 22, 22A, 23, 23A, 24, 24A, 25, 25A, 26, 26A, 27 AND 27A (2) ADDED ABOVE ITEMS TO -5001 LM (3) UPDATED REV LEVEL BLOCK	12/6/78	E. King	J		1.20 DIA. LEAD OF HEAT SHRINK TUBING (P/N: 04-99-0008) CENTERING ITEM (156) IN RESPECT TO HEAT SHRINK TUBING. SLEEVE LEADS OF ITEM (156) USING PVC SLEEVING (P/N: 972437-0004). SEE FIGURE 3. APPLY HEAT FROM HEAT GUN TO SHRINK HEAT SHRINK TUBING.
		CN 441717 (C) B. Balc (1) ADDED FLAG NOTE 16 TO SECTION A-A (2) ON SH 2 ZN B-6 ADDED NOTE 16 (3) UPDATED REV LVL BLK	1-19-79	E. King	K		CN 322554 (C) R. Page (1) UPDATED REV LEVEL BLOCK (2) ADDED TEST PROCEDURE TO REV LEVEL BLOCK
		CN 4451957 (D) B. Balc (1) UPDATED REV LEVEL BLOCK	4-18-79	J. King	L		CN 419130 (C) R. Page (1) UPDATED REV LVL BLK (2) REV LVL AS PER EXTENSIVE ENGR CHG (3) UPDATED PICTORIAL TO AGREE WITH PWB REV
		CN 447008 (C) J. King (1) ON LM-0001 ITEM 77 QTY WAS 2 AND ITEM 30 QTY WAS (2) UPDATED REV LEVEL BLOCK (3) ADDED NOTE 17 (4) ADDED NOTE 18	8-10-79	E. King	M		CN 419543 (C) R. Page (1) REVISED LM PER EXTENSIVE ENGR CHG (2) UPDATED REV LVL BLK
		CN 433328 (C) D. King (1) ON ITEM 30A DELETED R85 AND ITEM 30 QTY WAS 2 (2) DELETED NOTE 18 (3) ADDED ITEM 54 E 54A (4) ADDED NOTE 19 (5) UPDATED REV LEVEL BLOCK	8-10-79	E. King	N		CN 422704 (B) C. King (1) REVISED LM (2) DELETED VIEW H-H (3) REVISED CABLE CONNECTOR (EN B-5) (4) WIRE 151 NO 1-5, PL ITEM NO WERE 91, 100, 101, 102, 103 (5) UPDATED REV LVL BLK
		CN 433561 (C) M. King (1) REMOVED BALLOON 13 FROM SHT (2) LM 944990-0001 DELETED ITEM 13 (3) UPDATED REV LEVEL STATUS	11-29-79	J. King	P		CN 420831 (C) C. King (1) UPDATED REV LEVEL BLK (2) IN LM ITEM 87 QTY WAS 1; B7A DELETED CRY: ADDED ITEM 14B AND ITEM 14BA
		CN 461279 (D) M. King (1) DELETED BALLOON 112 FROM SHT (2) UPDATED REV LEVEL BLOCK STATUS	11-29-79	J. King	R		CN 420258 (C) M. King (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLDK
		CN 456184 (C) C. King (1) FLAG NOTE 16 WAS * MIN OF .50" (2) UPDATED REV LEVEL BLOCK	1-9-80	J. King	T		CN 420404 (C) M. King (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK
		CN 445229 (E) R. King (1) ITEM 106 WAS 150 LB (2) UPDATED REV LEVEL BLOCK	3-6-80	E. King	U		CN 417193 (C) M. King (1) REVISED LM PER EXTENSIVE ENGR CHANGES (2) ADDED NOTE 9 (3) ADDED PART NUMBER DESCRIPTION BLK TO F/D (3) UPDATED REV LEVEL BLK
		CN 433748 (D) R. King (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	3-13-80	E. King	V		CN 424309 (D) M. King (1) LM, ITEM 27 P/N WAS 971000-0002 (2) UPDATED REV LEVEL BLOCK
					W		CN 421687 (C) R. King (1) LM-5001, DELETED ITEMS 31, 31A, 33+33A (2) LM-0001, ITEM 31 QTY WAS 4, ITEM 31A ADDED R88 (3) LM-0001 ITEM 33 QTY WAS 2, ITEM 33A ADDED R80, R80 (4) UPDATED REV LEVEL BLOCK
					Y		CN 425100 (D) A. King (1) ADDED NOTE 10 (2) UPDATED REV LEVEL BLOCK
					AA		CN 428356 (C) R. King (1) LM-5001 LM ITEM 91A CRY WAS CRY ITEM 94A CRY WAS CRY (2) UPDATED REV LEVEL BLOCK
					AB		CN 437259 (E) M. King (1) ON BALLOON ITEM 122 WAS 412713-0001 (2) ADDED NOTE 11 (3) ON-5001 LM, DELETED ITEM 83, ITEM 88 QTY WAS 1.00, ITEM 45 QTY WAS 2.00, ADDED ITEM 154 (4) UPDATED REV LEVEL BLOCK
					AC		CN 429595 (C) C. King (1) ADDED 3 REQD TO BALLOON 12M 147 (2) LM ADDED 1, 21A 155 (3) SHZ, ADDED NOTE 12 (4) UPDATED REV LEVEL BLDK
					AD		CN 437268 (E) C. King (1) ADDED NOTE 12, 15, 2 (2) ADDED 14 TO FIG 13-1 LM, ALSO ITEM 156, 157 AND 158 (3) ADDED REV LEVEL BLOCK
					AE		CN 429454 (C) A. King (1) ADDED NOTE 14 AND FLAG 14 TO CR8 (2) UPDATED REV LEVEL BLOCK
					AF		CN 429562 (B) R. King (1) IN LM-0001 RES, PU FOR ITEM 20 WAS 372685-0001 (2) ADDED BALLOON 16 AND 20 TO F/D (3) UPDATED REV LEVEL BLOCK
					AG		CN 451130 (B) R. King (1) CN 426309, REV CLASS OF CHANGE WAS C (2) UPDATED REV LEVEL BLOCK
					AH		CN 437276 (C) B. King (1) ADDED NOTE 15 (2) DELETED FLAGS ON NOTE 13 (3) UPDATED REV LEVEL BLOCK

REVISIONS CONTD IN D-3

SIZE	CODE IDENT NO	DRAWING NO
D	96214	944990
SCALE	1:1	REV AV SHEET 2

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0002	REF	EA		0944992-9901	LOGIC DIAGRAM, STBY PWR SUPPLY, 7 IN. CH.				
0003	REF	EA		0944993-9901	TEST PROCEDURE, STBY PWR SUPPLY, 7 IN. CH.				
0004	REF	EA		0944994-9901	SPECIFICATIONS, STBY PWR SUPPLY, 7 IN. CH.				
0005	00001.000	EA		0972423-0022	CONNECTOR 2 CONTACTS URANGE UNLV PWR RE	AMP	-	3-390420-1	
0005A					J1				
0006	00002.000	EA		0400482-0007	HEATSINK, ALSTGM				
0007	00001.000	EA		0972480-0003	HEATSINK, CIRCUIT BOARD ITU-31-1.00	THN	-	00G3-B-2	
0008	00001.000	EA		0946744-0002	HEATSINK, ELASTIC PWR TRANSISTOR				
0009	00000.050	TU		0415886-0003	GREASE, SILICONE, HEAT COND.	CGR	-	MC 340	
0010	00001.000	EA		0946640-0001	TRANSFORMER, 12V				
0010A					T2				
0011	00001.000	EA		0946641-0001	TRANSFORMER, 160-20				
0011A					T1				
0012	00001.000	EA		0945247-0002	INDUCTOR, 10 UH, 5 AMP, FERRITE CORE				
0012A					L1				
0013	00003.000	EA		0972948-0001	TRANSISTOR, NPN, GEN. PURP. SM TO-5	TI	-	2N2219A	
0013A					Q4 C7 C8				
0014	00001.000	EA		0972949-0002	TRANSISTOR, 2N2222A NPN GEN PURP SM TO-18	TI	-	2N2222A	
0014A					Q3				
0015	00002.000	EA		0972958-0002	TRANSISTOR, 2N2907A PNP GEN PUMP SM TO-18	TI	-	2N2907A	
DESIGNER: DATE: 02/29/80 CHECKED: DATE: 02/29/80 PROJECT ENGINEER: DATE: 02/29/80 RELEASED: DATE: 02/29/80 TITLE: STANDBY P/S, 1-A ANP PROJECT NO.: 7506 PART NUMBER: LM0944990-0001 REV: AV									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0015A					Q1 Q2				
0016	00001.000	EA		0972777-0002	TRANSISTOR, N-P-N PWR 2N3714	MI	-	2N3714	
0016A					Q9				
0017	00001.000	EA		0533148-0001	TRANSISTOR, 2N3790	TI	-	2N3790	
0017A					Q10				
0018	00001.000	EA		0954759-0003	TEST TIP, 350 SDA TESTED	TI	-	TIP358	
0018A					Q11				
0019	00001.000	EA		0972961-0001	TRANSISTOR, PNP, PLASTIC, 80V, 145m	TI	-	TIP368	
0019A					Q6				
0020	00001.000	EA		0945106-0001	TRANSISTOR, TIP-561, SELECTED				
0020A					Q5				
0028	00002.000	EA		0539795-0006	RESISTOR, VARIABLE 500 OHM GERMEX FILM	BOU	-	3049P-1-501	
0028A					R27 R52				
0029	00001.000	EA		0972975-0053	RES FIX COMP 1.5 K OHMS 5 X 1/8 WATT	UPL	-	RC05G152J5	
0029A					R85				
0030	00001.000	EA		0972975-0061	RES, 3.3K 58 1/8 W FIX, CMPSM (INSULATED)	MI	-	RC05G332J5	
0030A					R77				
0031	00005.000	EA		0972975-0073	RESISTOR 10K OHMS 1/8W 58				
0031A					R44 R45 R48 R49 R71				
0032	00001.000	EA		0972975-0075	RES, 12K 58 1/8 W FIX, CMPSM (INSULATED)	MI	-	RC05G123J5	
DESIGNER: DATE: 02/29/80 CHECKED: DATE: 02/29/80 PROJECT ENGINEER: DATE: 02/29/80 RELEASED: DATE: 02/29/80 TITLE: STANDBY P/S, 1-A ANP PROJECT NO.: PART NUMBER: LM0944990-0001 REV: AV									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0032A					R24				
0033	00004.000	EA		0972975-0041	RES FIX COMP 22. K OHMS 5 X 1/8 WATT	UPL	-	RC05G223J5	
0033A					R40 R70 R79 R80				
0035	00001.000	EA		0972975-0089	RES FIX COMP 47. K OHMS 5 X 1/8 WATT	UPL	-	RC05G473J5	
0035A					R75				
0039	00001.000	EA		0539370-0349	RES FIX FILM 6W1 OHM 1% .25 WATT	COR	-	MA55	
0039A					R67				
0039B	00001.000	EA		0972976-0057	RES FIXED 50 OHMS 1/4 W 58				
0039C					R61				
0039D	00001.000	EA		0972976-0063	RES FIXED 100 OHMS 58 1/4 WATT	UPL	-	39008	
0039E					R19				
0039F	00001.000	EA		0972976-0069	RES, FIX, 180 OHM, 58, 0.25 W, CARBON COMP.				
0039G					R1				
0039H	00001.000	EA		0972976-0089	RES FIXED 1.2 K OHMS 58 1/4 WATT	UPL	-	39008	
0039I					R47				
0039J	00001.000	EA		0972976-0099	RES FIXED 3.3 K OHMS 58 1/4 WATT	UPL	-	39008	
0039K					R90				
0039L	00001.000	EA		0972976-0133	RES FIXED 82K OHMS 58 1/4 WATT	UPL	-	39008	
0039M					R17				
0040	00002.000	EA		0972977-0241	RES FIXED 6.8 OHMS 58 1/2 WATT	UPL	-	39008	
DESIGNER: DATE: 02/29/80 CHECKED: DATE: 02/29/80 PROJECT ENGINEER: DATE: 02/29/80 RELEASED: DATE: 02/29/80 TITLE: STANDBY P/S, 1-A ANP PROJECT NO.: PART NUMBER: LM0944990-0001 REV: AV									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0060A					R2 R7				
0061	00001.000	EA		0972977-0053	RES FIXED 39 OHMS 58 1/2 WATT	UPL	-	39008	
0061A					R14				
0062	00001.000	EA		0972977-0139	RES FIXED .15 MEG 58 1/2 WATT	UPL	-	39008	
0062A					R13				
0063	00001.000	EA		0972833-0003	RES., .15 OHM, 10%, 2W				
0063A					R43				
0064	00001.000	EA		0972833-0012	RES., .50 OHM, 10%, 2W				
0064A					R16				
0065	00001.000	EA		0972833-0017	RES., 1.0 OHM, 5%, 2W				
0065A					R50				
0066	00002.000	EA		0972942-0124	RES FIX 160 OHMS 58 5 WATT WIREBOUND				
0066A					R18 R39				
0067	00001.000	EA		0972942-0134	RES FIX 430 OHMS 58 5 WATT WIREBOUND				
0067A					R12				
0068	00001.000	EA		0972942-0029	RES FIX 10.0 K OHMS 58 5 WATT WIREBOUND	QHM	-	093-6634	
0068A					R4				
0069	00001.000	EA		0972942-0179	RES FIX 15.0K OHMS 58 5 WATT WIREBOUND				
0069A					R9				
0070	00001.000	EA		0972687-0036	RES, 5.0 OHMS 58 10W FIX, PCBER WIREBOUND				
DESIGNER: DATE: 02/29/80 CHECKED: DATE: 02/29/80 PROJECT ENGINEER: DATE: 02/29/80 RELEASED: DATE: 02/29/80 TITLE: STANDBY P/S, 1-A ANP PROJECT NO.: PART NUMBER: LM0944990-0001 REV: AV									

Standby Power Supply Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DESC. UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0070A					K49						
0071	00001.000	EA		0972929-0284	CAP FIX CERAMIC 180 PF 10 X 200 V	UPL	-M39014/01-1344				
0071A					C14						
0072	00001.000	EA		0972929-0397	CAP FIX CERAMIC .001 UF 10X 200V	UPL	-M39014/01-1394				
0072A					C14,C17,C18,C31						
0073	00001.000	EA		0972929-0402	CAP .0018 UF 10X 16VDC FLX CERAMIC						
0073A					C32						
0074	00001.000	EA		0972927-0044	CAP FIX MICA 300V 620 PF 5 X	UPL	-CM05F621164				
0074A					C7						
0075	00001.000	EA		0412645-0015	CAPACITOR .01 UF +80/-20% 500VDC CER 01EA	SPH	744C92				
0075A					C6						
0076	00001.000	EA		0972965-0008	CAP FIX CERAMIC .0047 NF 104 200 V	UPL	-CK068X472X				
0076A					C5						
0077	00003.000	EA		0972965-0012	CAP FIX CERAMIC .010 NF 104 200V	UPL	-CK068X102X				
0077A					C3 C6 C20						
0078	00002.000	EA		0972965-0020	CAP FIX CERAMIC .047 NF 104 100V	UPL	-CK068X472X				
0078A					C4 C30						
0079	00004.000	EA		0972965-0024	CAP FIX CERAMIC .100 NF 104 100V	UPL	-CK068X104X				
0079A					C2 C9 C11 C19 C33 C36 C37						
0079B					C34						
STANDBY P/S, 1.4 AMP											
LM0944990-0001 AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DESC. UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0080	00001.000	EA		0972924-0010	CAP FIX TANI SOLID 22 MFD 10 X 25 VOLT	UPL	-M39003/1-2221				
0080A					C15						
0081	00001.000	EA		0972924-0013	CAP FIX TANI SOLID 2.2 MFD 10 X 20 VOLT	UPL	-M39003/1-2203				
0081A					C12						
0082	00001.000	EA		0972924-0019	CAP FIX TANI SOLID 22 MFD 10 X 35 VOLT	UPL	-M39003/1-2306				
0082A					C13						
0083	00001.000	EA		0972924-0015	CAP FIX TANI SOLID 47 MFD 10 X 20 VOLT	UPL	-M39003/1-2255				
0083A					C1						
0084	00001.000	EA		0972711-0019	CAP. 47 UF -10/+75% 35VDC FLX ELEC ALU						
0084A					C35						
0085	00001.000	EA		0972711-0026	CAP. 220 UF -10/+75% 16VDC FLX ELEC ALU						
0085A					C39						
0086	00002.000	EA		0972931-0082	CAP. FIXED, ELECTROLYTIC, 1500 UF, 40V						
0086A					C10 C34						
0090	00001.000	EA		0972934-0014	DIODE, IN759A 14.0 V 58 SIL VOLT RBG	UPL	-M759A				
0090A					CR4						
0091	00002.000	EA		0972932-0001	DIODE IN914B	SEE TI- DRAWING					
0091A					CR2 CR30						
0092	00001.000	EA		0418036-0011	DIODE, IN922B						
0092A					CR9						
STANDBY P/S, 1.4 AMP											
LM0944990-0001 AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DESC. UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0093	00001.000	EA		0539468-0007	DIODE, IN4002 1AMP 1000PIV RECTIFIER	TI	-1N4002				
0093A					CR10						
0094	00001.000	EA		0972268-0064	DIODE IN4937 1 AMP	SEE - TI DRAWING					
0094A					CR5						
0095	00002.000	EA		0972164-0001	DIODE, MRS01						
0095A					CR11, CR20						
0096	00001.000	EA		0972269-0002	DIODE MRM21 5 AMP	UPL	-M421				
0096A					CR16						
0106	00002.000	EA		0972986-0015	SCREW 10-32 1.25 PAN HEAD CRES						
0107	00002.000	EA		0411116-0104	NUT, PLAIN HEX, #10						
0108	00004.000	EA		0411027-0008	WASHER, FLAT, #10						
0109	00002.000	EA		0411161-0005	*O RING						
0110	AR	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE T YELLOW						
0111	AR	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C						
0113	00006.000	EA		0803153-0029	NUT, SLEEVE, SHLDR, BRASS, 6-32X.125						
0114	00003.000	EA		0412257-0006	TERMINAL, ANG #6 12-20 ANG	UPL	-M37206-2				
0115	00007.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD LKBS						
0116	00004.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TIGHT CRES	UPL	-MS3533-71				
0117	00003.000	EA		0232543-0008	10-5 MOUNTING PAD, 4 LEADS, NYLON	SEE TI- DRAWING					
0118	00003.000	EA		0185113-0001	X SPALER ASI TO-18 CASE						
STANDBY P/S, 1.4 AMP											
LM0944990-0001 AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM0944990-0001		REV AV	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DESC. UNIT	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0120	00001.000	EA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	UPL	-M34711-0				
0121	00001.000	EA		0996064-0001	DIODE, RECTIFIER IN3075 BRU IN3083						
0121A					CR8						
0122	00001.000	EA		0534139-0001	DIODES, IN1202A, SILICON, PWR RECTIFIER	019500-JANIN1202A					
0122A					CR23						
0123	00002.000	EA		0532353-1010	NUT SLEEVE-CRES 10-32 X 5/16 X.500	ANA	-8390-35-1032				
0124	00002.000	EA		0947513-0001	HEATSINK, RECTIFIER						
0125	00002.000	EA		0411101-0060	LOCKWASHER #10 EXTERNAL TIGHT CRES						
0126	00002.000	EA		0972986-0007	SCREW 10-32 .312 PAN HEAD CRES						
0128	00001.000	EA		0411027-0006	WASHER, #6 FLAT, CRES, .156 X .375 X .049	UPL	-MS15255-006				
0132	00001.000	EA		0996069-0003	ADI, SOLID, BRNPLSTL 25# BAG ANAEROBIC	PERSAL-917-6344					
0133	00001.000	EA		0972423-0036	CONNECTOR 2 CONTACTS GREEN UNIV PWR HI	ANA	-5-320424-1				
0134A					J2						
0135	00001.000	EA		0972976-0079	RES, FIX, 470 OHM, 50, 0.25 W, CARBON CLMP						
0135A					R3						
0137	00001.000	FT		0082346-0001	GROMMET-CATERPILLAR METAL THK.015 IG.054						
0141	00001.000	EA		0972833-0010	R, RES, .390HMS 2W 10R W/PE MOUNT, FIXED	LHM	-SERIES 22				
0141A					R55						
0142	00001.000	EA		0534370-0481	RES FIX FILM 10.0K OHM 1/2 .25 WATI	CLR	-M3550-100PPR/C				
0142A					R72						
STANDBY P/S, 1.4 AMP											
LM0944990-0001 AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 9 of		PART NUMBER LM0944990-0001		BY AV	
REV. NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. REQ.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0143	00001.000	EA		0539370-0517	RES FIX FILM 23.7K OHM 1% .25 WATT	LUM - MASS					
0143A					R63						
0146	00001.000	EA		0949019-0001	CABLE ASSY,STANDBY POWER SUPPLY						
0147	00004.000	EA		0414212-0040	STRAP,TELOGN,ADJUSTABLE,PLASTIC	WPL - M53307-4-9					
0148	00001.000	EA		0972934-0002	DIODE,1N742A 3.6 V 5% SIL MULT REG	WPL - 1N742A					
0148A					CR19						
0150	AR	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER						
0151	AR	FT		0411400-0020	WIRE 420 ELECTRO-TIN-PLATED,COPPER						
0152	AR	FT		0410499-0007	INSULATION SLEEVING,TEFLON #20 NATURAL	WPL - 01349					
0153	00001.000	EA		0944990-5001	AUTO INSERTION TAPE FOR 944990-1						
0155	AR	EA		0417430-0001	ADHESIVE,EPGXY 0151	MYS -EPGXY-PATCH 4					
0156	00001.000	EA		0972217-2000	FUSE,2AMP,GLASS TUBE PIGTAIL	071400-GJV					
0156A					IF1						
0157	00001.000	EA		2242141-0001	CABLE ASSY WIRE KIT,STANDBY P/S,1-4 AMP						
DESIGNER DATE CDR DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
STANDBY P/S,1-4 AMP											
APPROVER DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM0944990-0001 BY AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0944990-0001		BY AV	
REV. NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. REQ.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0944991-0001	PHN,STBY PWR SUPPLY,7-1N-CH.						
0021	00001.000	EA		0972242-0001	TRANSISTOR MPQ222/S41062 QUAD						
0021A					U6						
0022	00001.000	EA		0972243-0001	TRANSISTOR,MPQ2907 QUAD DUAL-IN-LINE	NOT - MPQ 2907					
0022A					U5						
0023	00001.000	EA		0222225-2211	NETWORK LM311,SN72211P	SEE - TI DRAWING					
0023A					U3						
0024	00001.000	EA		0972463-0001	NETWORK,SN72558P/MC1458P1 OP AMP	SEE - TI DRAWING					
0024A					U4						
0025	00002.000	EA		0972662-0001	RESISTOR,SB22723M						
0025A					U2,U7						
0026	00001.000	EA		0972663-0001	RESISTOR,LM339M						
0026A					U8						
0027	00001.000	EA		0994671-0001	OPTICAL COUPLER TIL 124	001295-TIL 124					
0027A					U1						
0036	00001.000	EA		0539370-0285	RES FIX FILM 90.9 OHM 1% .25 WATT						
0036A					R29						
0037	00002.000	EA		0539370-0450	RES FIX FILM 4.75K OHM 1% .25 WATT	COR - MASS					
0037A					R83 R84						
0038	00001.000	EA		0539370-0466	RES FIX FILM 6.45K OHM 1% .25 WATT	COR - MASS					
DESIGNER DATE CDR DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTION TAPE FOR 944990-1											
APPROVER DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM0944990-0001 BY AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0944990-0001		BY AV	
REV. NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. REQ.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0038A					R82						
0040	00002.000	EA		0539370-0481	RES FIX FILM 10.0K OHM 1% .25 WATT	COR - MASS-LUOPPNVA					
0040A					R73 R74						
0041	00001.000	EA		0539370-0492	RES FIX FILM 13.0K OHM 1% .25 WATT	COR - MASS					
0041A					R30						
0042	00001.000	EA		0539370-0491	RES FIX FILM 12.7K OHM 1% .25 WATT	COR - MASS					
0042A					R66						
0043	00002.000	EA		0972976-0241	RES FIXED 3-3 OHMS 5% 1/4 WATT	QPL - 39008					
0043A					R25 R88						
0044	00003.000	EA		0972976-0047	RES FIXED 22 OHMS 5% 1/4 WATT	QPL - 39008					
0044A					R42 R54 R28						
0045	00001.000	EA		0972976-0057	RES FIXED 56 OHMS 1/4 W 5%						
0045A					R60						
0047	00001.000	EA		0972976-0065	RES 120 OHM .25W 5% FX COMP INSULATED						
0047A					R41						
0048	00001.000	EA		0972976-0069	RES,FLX, 160 OHM, 5%,0.25 W,CARBON COMP.						
0048A					R42						
0049	00001.000	EA		0972976-0077	RES,FLX, 390 OHM, 5%,0.25 W,CARBON COMP.						
0049A					R51						
0050	00001.000	EA		0972976-0086	RES FIXED 910 OHMS 5% 1/4 WATT	QPL - 39008					
DESIGNER DATE CDR DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTION TAPE FOR 944990-1											
APPROVER DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM0944990-0001 BY AV											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0944990-0001		BY AV	
REV. NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	QTY. REQ.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0050A					R56						
0051	00003.000	EA		0972976-0087	RES,FLX,1-0K OHM, 5%,0.25 W,CARBON COMP.						
0051A					R8 R10 R36						
0052	00004.000	EA		0972976-0089	RES FIXED 1-2 K OHMS 5% 1/4 WATT	QPL - 39008					
0052A					R5 R20 R26 R53						
0053	00003.000	EA		0972976-0095	RES,FIXED 2-2K .25W 5%	031849-RG07622215					
0053A					R23 R44 R57						
0054	00002.000	EA		0972976-0099	RES FIXED 3-3 K OHMS 5% 1/4 WATT	QPL - 39008					
0054A					R37 R45						
0055	00007.000	EA		0972976-0103	RES FLX 5-7K OHM, 5%, .25W,CARBON COMP.						
0055A					R11 R32 R23 R35 R36 R38 R81						
0056	00004.000	EA		0972976-0111	RES,10K OHMS .25W 5% FIX,COMP,INSULATED	MIL -RLM07610315					
0056A					R6 R21 R22 R48						
0057	00001.000	EA		0972976-0115	RES FIXED 22 K OHMS 1/4 W 5%						
0057A					R58						
0059	00001.000	EA		0972976-0141	RES FIXED 100 K OHMS 5% 1/4 WATT	QPL - 39008					
0059A					R31						
0087	00001.000	EA		0972934-0001	DIODE,1N744A 3-3 V 5% SIL VOLT REG	WPL - 1N744A					
0087A					CR12						
0088	00002.000	EA		0972934-0007	DIODE,1N752A 5-6 V 5% SIL MULT REG	WPL - 1N752A					
DESIGNER DATE CDR DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTION TAPE FOR 944990-1											
APPROVER DATE APP. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM0944990-0001 BY AV											

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTORS ARE IN OHM'S,
 5%, 1/4 WATT
 2. ALL CAPACITORS ARE IN MICROFARADS
 3. ALL DIODES ARE MPMB
 4. 1N164 DIODE MAY BE USED AS A SUBSTITUTE

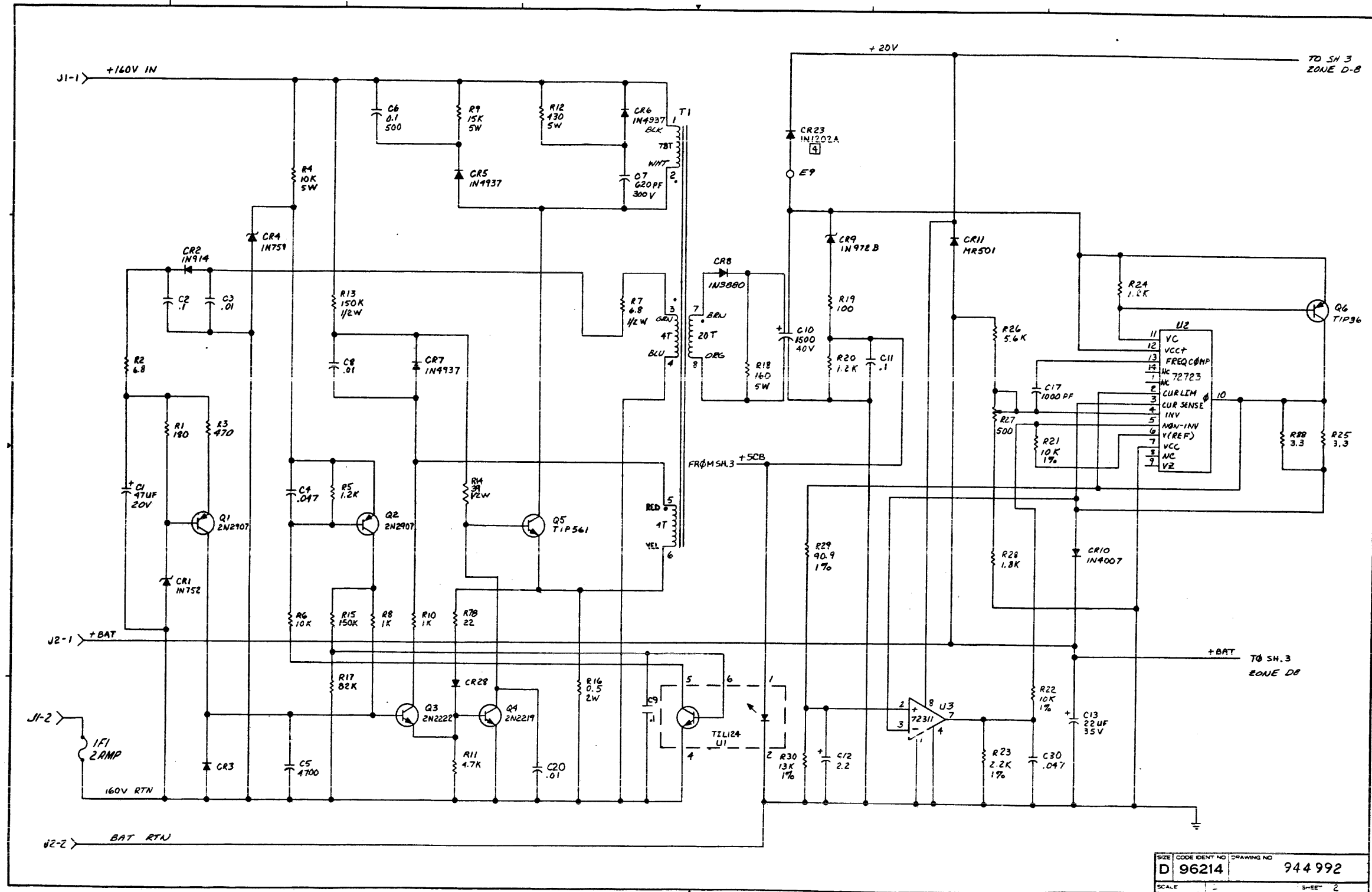
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A	CN41912 (C)	D. Pann	7-1-76
B	CN419540 (C)	D. Pann	10-21-76
C	CN418101 (C)	D. Pann	11-21-76
D	CN422703 (C)	B. Thistle	1-12-77
E	CN420852 (C)	B. Campbell	4-22-77
F	CU419137 (D)	L. ToHie	5-18-77
G	CN426346 (C)	B. J. Jorgensen	7-22-77
H	CN437261 (E)	R. Pann	5-15-78
J	CN437269 (E)	C. Boyce	6-19-78
K	CN447029 (E)	C. Langman &	8-3-79
L	CN454669 (E)	C. Langman &	8-3-79

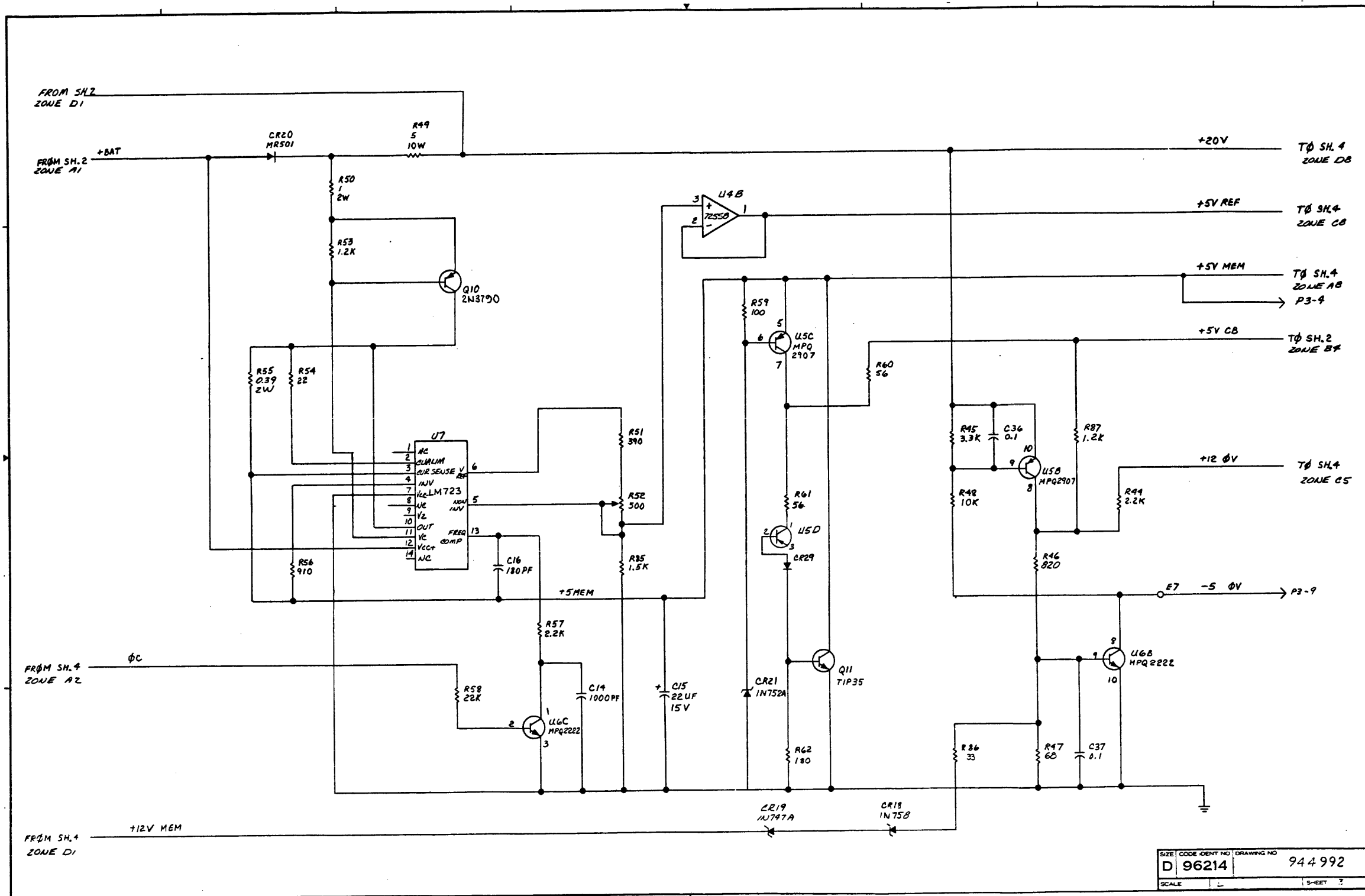
HIGHEST REF DESIGNATORS USED				
C39	CR30	L1	U2	P3
Q11	R30	T2	U8	E9
IFI				

REFERENCE DESIGNATOR NOT USED			
C21 THRU C29	P1	P2	
CR24 THRU CR27	E1	E2	
R89			

REVISION STATUS OF SHEETS	REV	DATE	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERNET DRAWING IN ACCORDANCE WITH MIL-STD-100	REV 4	11/21/74						
HOLE TOLERANCE .013 +.004 .014 +.004 .015 +.004 .016 +.004 .017 +.004 .018 +.004 .019 +.004 .020 +.004 .021 +.004 .022 +.004 .023 +.004 .024 +.004 .025 +.004 .026 +.004 .027 +.004 .028 +.004 .029 +.004 .030 +.004 .031 +.004 .032 +.004 .033 +.004 .034 +.004 .035 +.004 .036 +.004 .037 +.004 .038 +.004 .039 +.004 .040 +.004 .041 +.004 .042 +.004 .043 +.004 .044 +.004 .045 +.004 .046 +.004 .047 +.004 .048 +.004 .049 +.004 .050 +.004 .051 +.004 .052 +.004 .053 +.004 .054 +.004 .055 +.004 .056 +.004 .057 +.004 .058 +.004 .059 +.004 .060 +.004 .061 +.004 .062 +.004 .063 +.004 .064 +.004 .065 +.004 .066 +.004 .067 +.004 .068 +.004 .069 +.004 .070 +.004 .071 +.004 .072 +.004 .073 +.004 .074 +.004 .075 +.004 .076 +.004 .077 +.004 .078 +.004 .079 +.004 .080 +.004 .081 +.004 .082 +.004 .083 +.004 .084 +.004 .085 +.004 .086 +.004 .087 +.004 .088 +.004 .089 +.004 .090 +.004 .091 +.004 .092 +.004 .093 +.004 .094 +.004 .095 +.004 .096 +.004 .097 +.004 .098 +.004 .099 +.004 .100 +.004	224000	7576						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02								
MATERIAL								
DESIGN ACTIVITY RELEASE								
CONTR NO								
SIZE	CODE	IDENT NO	DRAWING NO					
D	96214		944992					
SCALE			SHEET	1 OF 4				

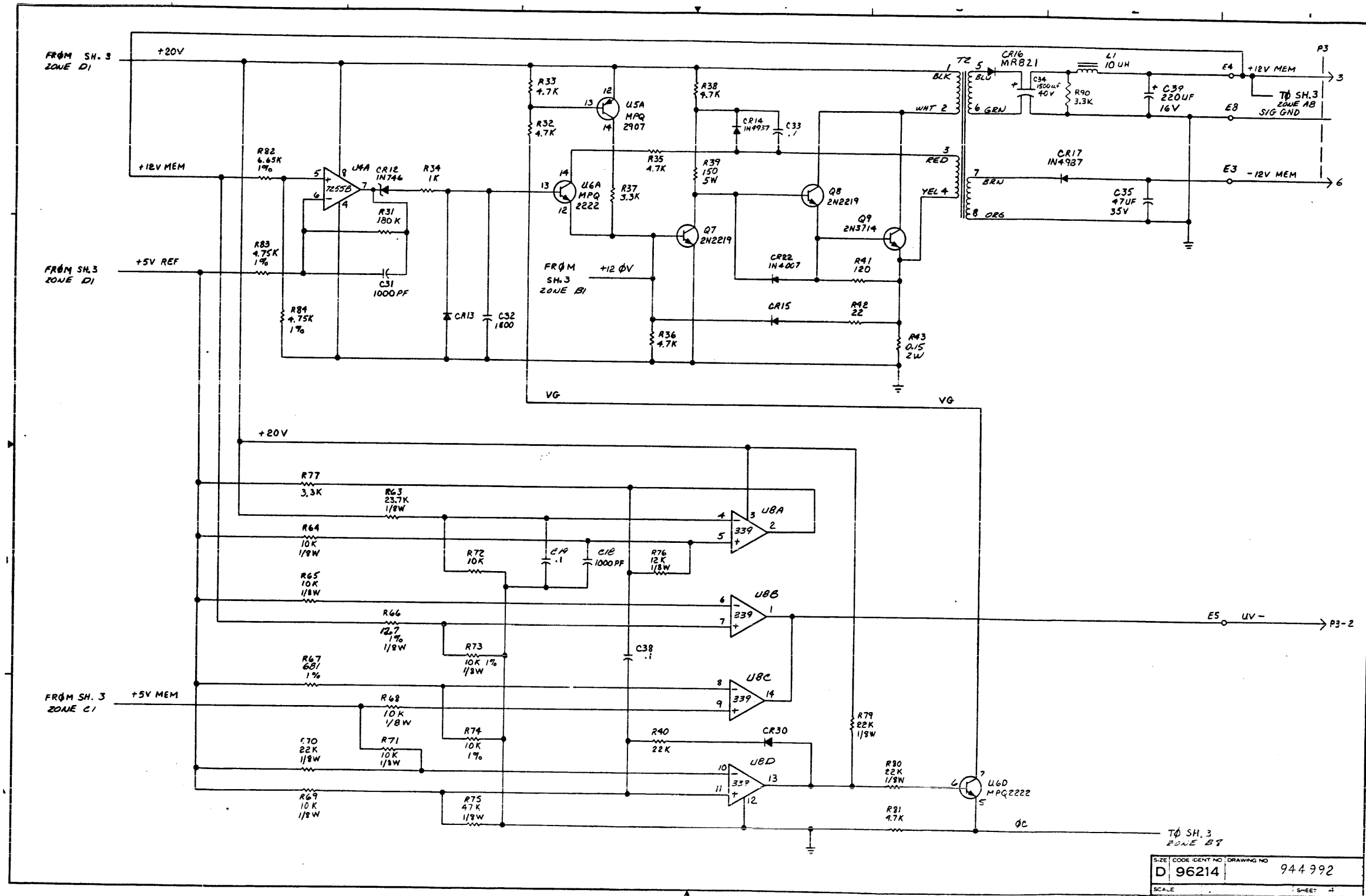
Standby Power Supply Schematic Diagram





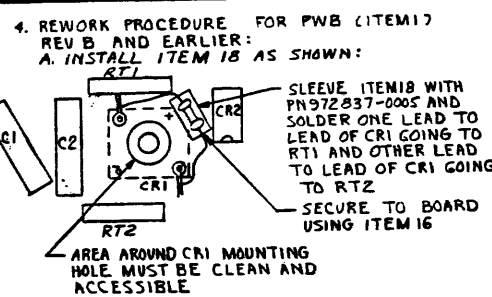
SIZE	CODE IDENT NO	DRAWING NO
D	96214	944992
SCALE	SHEET ?	

Standby Power Supply Schematic Diagram

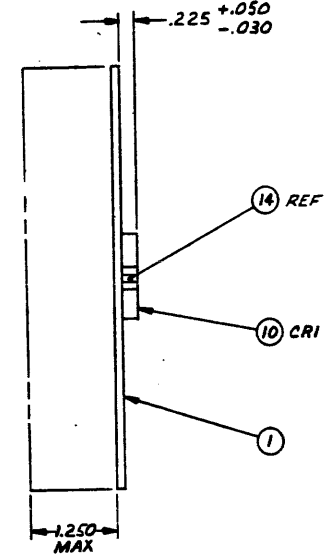
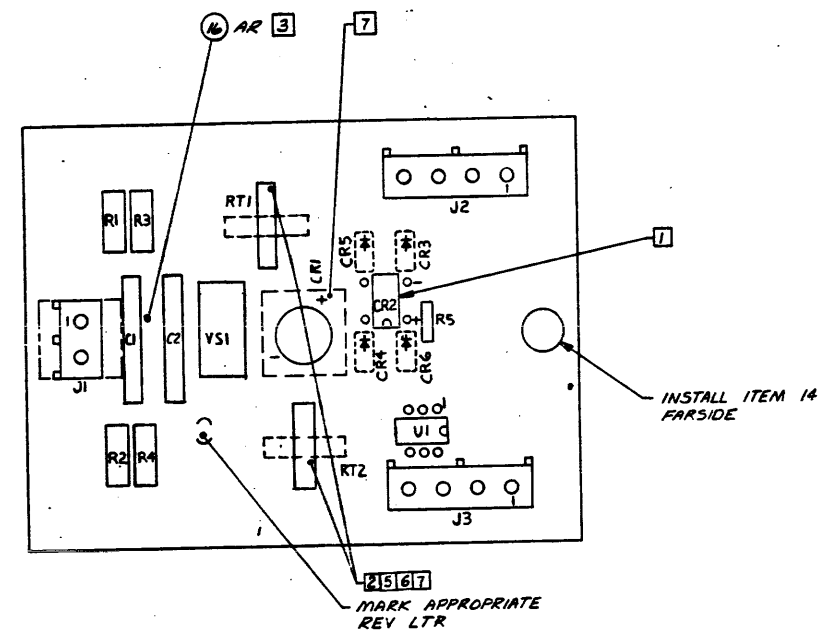


SIZE	CODE IDENT NO	DRAWING NO
D	96214	944992
SCALE	SHEET 4	

- 5 INSTALL RT1 AND RT2 (ITEM 8) PERPENDICULAR TO PWB (ITEM 1) SURFACE. LEAD LENGTH OF (ITEM 8) TO BE $.50 \pm .20$ FROM BODY OF ITEM 8 TO PWB (ITEM 1) SURFACE
- 6 SLEEVE LEADS OF ITEM 8 USING ITEM 13
- 7 CLINCH LEADS ON SOLDER SIDE ALONG CIRCUIT PATH PRIOR TO SOLDERING. USE CARE NOT TO REDUCE SPACING BETWEEN CIRCUITS



- NOTES:
- 1 DIODES CR3 - CR6, PN 972932-0001, MAY BE SUBSTITUTED FOR CR2, ITEM 11
 - 2 POSITION MAY VARY DEPENDING ON LEAD CONFIGURATION OF ITEM 8 (RT1 AND RT2)
 - 3 BOND THESE TWO COMPONENTS TOGETHER WITH ITEM 16



- PROCESSES:
1. SOLDER PER F-127, METHOD I AND/OR F-124
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .09, COLOR BLACK

REVISION LEVEL

TEST PROC 946653-9901	A	A	A	A	A	A	A	A	A
SCHEMATIC 946652-9901	A	B	C	D	E	F	G	H	I
PWB 946651-0001	A	B	C	D	E	F	G	H	I
ASSY 946650-0001	A	B	C	D	E	F	G	H	I

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 412695 (A) D. L. M. (1) L/M, ITEM 12, 13 WAS 972423-0001, 972423-0006 AND QTY OF ITEM 13 WAS 2 (2) ADDED ITEM 15, 16 + NOTE 3	8-16-76	J. R. H.
B		CN 419535 (A) D. L. M. (1) ITEM 6 P/N WAS 971000-0001 (2) UPDATED REV LEVEL BLOCK	10-8-76	J. R. H.
C		CN 420854 (D) D. L. M. (1) UPDATED REV LEVEL BLOCK (2) ADDED TEST PAGE	1-27-77	J. R. H.
D		CN 427203 (B) D. L. M. (1) RELOCATED C2 PER ARTWORK (2) UPDATED REV LEVEL BLOCK (3) ITEM 9 QTY WAS 2; ITEM 9A DELETED C2 (4) ADDED ITEM 17, 17A TO LM	7/6/77	J. R. H.
E		CN 426306 (B) D. L. M. (1) ITEM 5 P/N WAS 071000-0002 (2) UPDATED REV LEVEL BLOCK	8-25-77	J. R. H.
F		CN 425262 (A) D. L. M. (1) REVISED PICTORIAL PER REV C ARTWORK (2) ADDED REWORK NOTE 4 (3) ADDED ITEM 18 (4) UPDATED REV LEVEL BLOCK	9-9-78	J. R. H.
G		CN 437263 (B) D. L. M. (1) ADDED FLAG NOTES 5 & 6 TO NOTES A F/D (2) UPDATED REV LEVEL BLOCK (3) ON LM ADDED ITEM 19	7-26-78	J. R. H.
H		CN 437265 (E) D. L. M. (1) RELOCATED C1, C2, RT1, RT2 & VS1 (2) RELOCATED CRI AND T1 BUG MARKING	7-26-78	J. R. H.
J		CN 446775 (B) D. L. M. (1) CN 437263 REV G CLASS OF CHANGE LEVEL WAS C (2) UPDATED REV LEVEL BLOCK	8-3-78	J. R. H.
K		CN 441132 (B) D. L. M. (1) CN 426306 REV E CLASS OF CHANGE WAS C (2) UPDATED REV LEVEL BLOCK	9-14-78	J. R. H.
L		CN 435791 (C) G. S. D. (1) ADDED FLAG NOTE 7 (2) UPDATED REV LEVEL BLOCK	1-3-80	J. R. H.

QTY REQD	QTY	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

DATE	DATE	DATE
3-17-75		

OWN	DATE	DATE
J. R. H.	3-17-75	
CHK		
DRG		
APP		
CONTR NO		
DESIGN ACTIVITY RELEASE		


SIZE	CODE IDENT NO	DRAWING NO
D	96214	946650
SCALE	E/1	SHEET


HOLE TOLERANCE	UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
.013 - .004	REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
.013 - .001	CONCENTRICITY MACHINED DIAMETERS .010 PIR	TOLERANCES
.001 - .001	DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ±1°
.001 - .001	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	3 PLACE DECIMALS ±0.10
.001 - .001		3 PLACE DECIMALS ±0.2

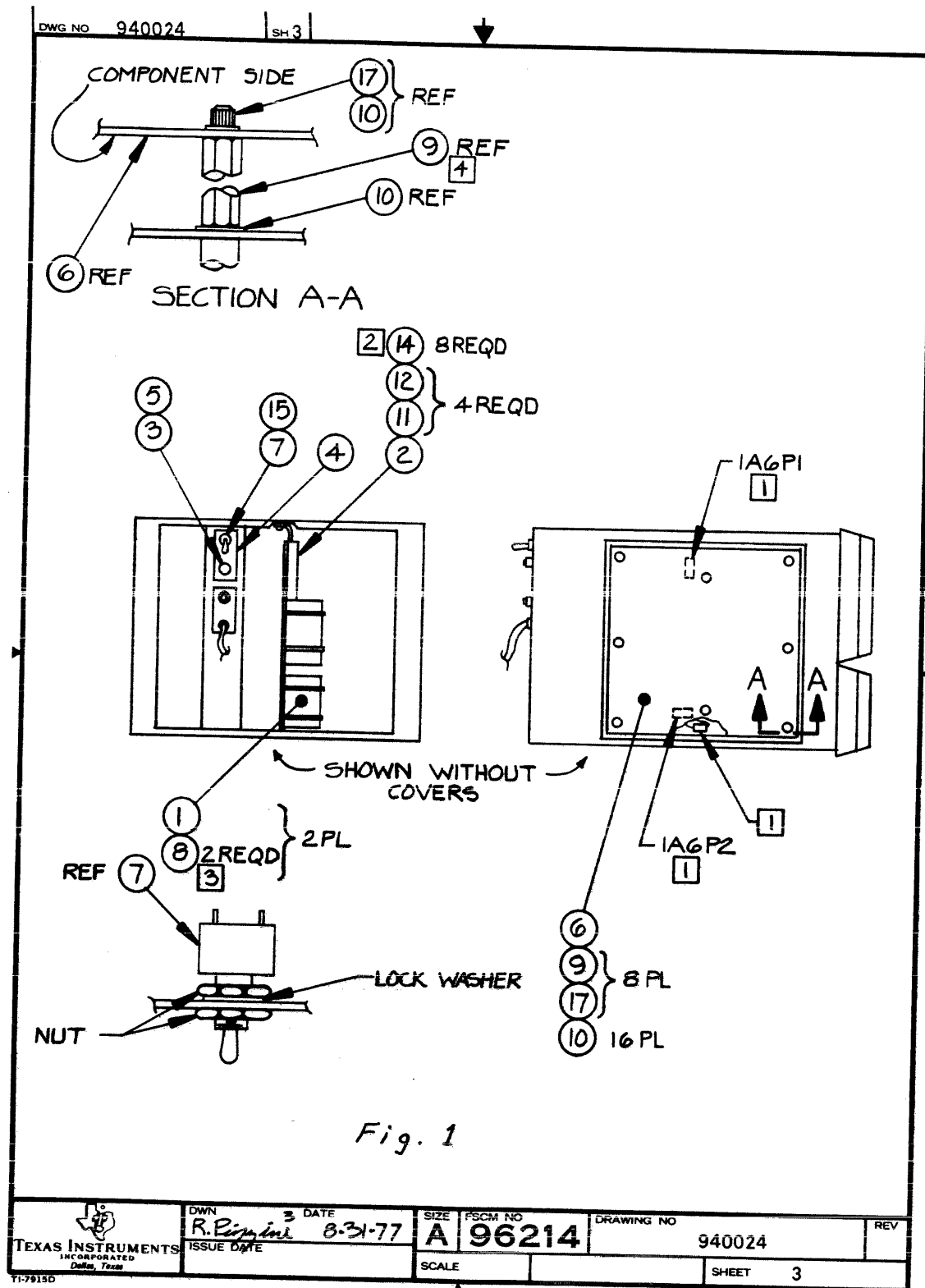
Ac Power Converter Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 05/05/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM094665C-0001		REV L7	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0946651-0001	PWB-AC POWER CONVERTER						
0002	REF	EA		0946652-9901	SCHEMATIC DIAGRAM-AC POWER CONVERTER						
0003	REF	EA		0946653-9901	TEST PROCEDURE-AC POWER CONVERTER						
0004	REF	EA		0946654-9901	SPEC. AC POWER CONVERTER						
0005	00001.000	EA		0996671-0001	OPTICAL COUPLER TIL 124	001295-TIL 124					
0006	00004.000	EA		0972947-0075	RES FIX 2.7K CFM 5% .5 W CARBON FILM	RDH - R-50					
0007	00001.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RUH - R-25					
0008	00002.000	EA		0972808-0001	THERMISTOR, DISC, 5 OHM						
0009	00001.000	EA		0412645-0015	CAPACITOR, .1 UF +80,-20% 500VDC CER DIE	SPR -41C92					
0010	00001.000	EA		0972805-0001	RECTIFIER, BRIDGE, 10A, 400V						
0011	00001.000	EA		0972806-0001	RECTIFIER, BRIDGE, 1A, 400V						
0012	00001.000	EA		0972423-0050	CONNECTOR, PWB MOUNTED 2 CONTACTS VIOLET	AMP - 7-350420-1					
0012A					J1						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AC POWER CONVERTER			
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506			
								PART NUMBER LM094665C-0001			
								REV L7			

TEXAS INSTRUMENTS INCORPORATED		DATE 05/05/78		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM094665C-0001		REV L7	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
JJ13	00001.000	EA		0972423-0050	CONNECTOR, PWB MOUNTED 4 CONTACTS RED	AMP - 7-350430-1					
0013A					J2						
0014	00001.000	EA		0803153-0031	NUT, SLEEVE-SHLDNG, BRASS, 6-32 X .250						
0015	00001.000	EA		0972423-0006	CONN, PCB HEADER, 4CKT, MALE						
0015A					J3						
0016	FR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0017	00001.000	EA		0996211-0009	CAPACITOR, 0.1000 UF 400 VDC 10%	012406-ZC1R104					
0017A					C2						
0018	00001.000	EA		0974805-0007	SURGE VOLTAGE PROTECTOR						
0018A					VSI						
0019	00000.200	FT		0410459-0008	INSULATION SLEEVING, TEFLON #18 NATURAL	JPL -01349					
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AC POWER CONVERTER			
APP. ENG.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506			
								PART NUMBER LM094665C-0001			
								REV L7			

DWG NO 940024		SH 1					
APPLICATION		REVISIONS					
NEXT ASSY	USED ON	REV	DESCRIPTION				
945050	7506	A	CN428242 (C) <i>J. R. Roney</i>				
		B	CN428373 (C) <i>D. D. Daley</i>				
		C	CN442506 (C) <i>K. R. Roney</i>				
NOTES:							
1 HOOK UP CONNECTORS BEFORE MOUNTING ITEM 6.							
2 TIE BATTERY LEADS TO CABLE HARNESS USING ITEM 14.							
3 2 SPARE TIE DOWN STRAPS SUPPLIED.							
4 REMOVE SCREWS AND INSTALL INSULATED SPACER, ITEM 9.							
<table border="1"> <tr> <td>940024-0001</td> <td>KIT, INSTALLATION, STANDBY P/S CONSOLE</td> </tr> <tr> <td>TI PART NO</td> <td>DESCRIPTION</td> </tr> </table>				940024-0001	KIT, INSTALLATION, STANDBY P/S CONSOLE	TI PART NO	DESCRIPTION
940024-0001	KIT, INSTALLATION, STANDBY P/S CONSOLE						
TI PART NO	DESCRIPTION						
REV							
SHEET							
REV STATUS	REV	C	B				
OF SHEETS	SHEET	1	2 3				
UNLESS OTHERWISE SPECIFIED	DWN	RASMUSSEN	8/15/77				
DIMENSIONS ARE IN INCHES	ENGR	<i>J. R. Roney</i>	8-31-77				
TOLERANCES: ANGLES ±1°	APVD	<i>J. R. Roney</i>	8-31-77				
3 PLACE DECIMALS ±.010	CONTR	<i>J. R. Roney</i>	8/11/77				
2 PLACE DECIMALS ±.02	PRLS	<i>J. R. Roney</i>	9/1/77				
PARENTHEICAL INFO FOR REF ONLY	MFG	<i>J. R. Roney</i>	9/1/77				
 TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		KIT, INSTALLATION, STANDBY POWER SUPPLY CONSOLE					
SIZE	FSCM NO	DRAWING NO					
A	96214	940024					
SCALE	NONE	SHEET	1 OF 3				

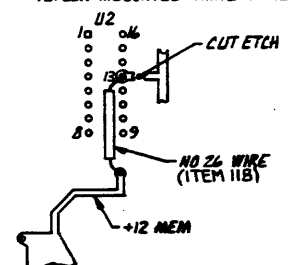
DWG NO 940024		SH 2	
1.0	The scope of this drawing is to describe the parts and installation procedure for the 990 Standby Power Supply Kit.		
2.0	INSTALLATION INSTRUCTIONS		
2.1	Insure that chassis power cord is disconnected from power line.		
2.2	Remove rear access cover with filter attached.		
2.3	Remove blank label and replace with Item 4.		
2.4	Install fuse holder, switch and batteries as shown on Figure 1.		
2.5	Connect fuse holder, switch and batteries per wiring list.		
2.6	Replace rear access cover.		
2.7	Remove side access cover.		
2.8	Remove and discard the standby replacement plug. Remove cable tie down straps that have standby connectors tied off. (1A6P1 and 1A6P2)		
2.9	Install standby power supply board (Item 6) per Figure 1.		
2.10	Remove any air deflector which may be attached to the side access cover and discard. Reinstall side access cover on chassis.		
2.11	Remove the IDENTIFICATION LABEL, if any exist, and install item 10, appropriately filled out, in the same location. (Note: Tag should reflect the 990/10 or 990/4 identification along with other information shown in note 11 of TI drawing No. 945050.)		
 TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		DWN	DATE
SIZE A 96214		DRAWING NO 940024	
ISSUE DATE		SCALE	SHEET 2



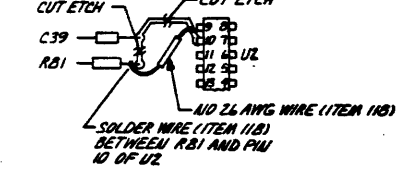
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00002.000	EA		0946745-0001	BATTERY, LEAD ACID, 6V 5A	
0002	00001.000	EA		0946662-0001	BRACKET, MOUNTING BATTERY	
0003	00001.000	EA		0972690-0001	FUSEHOLDER, EXTRACTOR POST	071400-342858A
0004	00001.000	EA		0946639-0002	LABEL, BATTERY CONTROL, INTERNAL BATT, 5A	
0005	00001.000	EA		0416434-0503	FUSE 5.0 A 250V 3AG	LIT - 312005
0006	00001.000	EA		0940015-0001	CONSOLE, STANDBY POWER SUPPLY	
0007	00001.000	EA		0972165-0001	SWITCH, TOGGLE-AC RATED ON-NONE-OFF	
0008	00006.000	EA		0972632-0014	STRAP, TIE DOWN, CABLE	PND - SST45
0009	00008.000	FA		0944978-0002	STUD, INSULATED, 2.375 IN	
0010	00016.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0011	00004.000	FA		0972683-0005	SCREW #6-20 X 3/8 THREAD FORMING, SLOTTED	HE -AD
0012	00004.000	EA		0972802-0002	FASTENER, 6-20X.34LG, SPEED NUT, STL	078553-C7737-62-67
0013	REF	EA		0946685-9901	WIRE LIST, 12IN	
0014	00008.000	EA		0972632-0003	STRAP, TIE DOWN, CABLE	
0015	00001.000	EA		0946690-0001	CABLE, SINGLE WIRE	
0016	00001.000	EA		0399999-9711	COPY OF DWG(S) BELOW	-80GJS P/N, NO 0
0016A					940024 KIT	
0016B					946736 DIAGRAM	
0016C					946685 WIRE LIST	
0016D					(SHIP DWGS ONLY IF KIT IS	
DRAFTSMAN DATE 01/24/78 CTD DRAFTSMAN DATE 01/25/78 DESIGN ENGINEER DATE TITLE KIT, INSTALLATION, STDBY P/S CONSOLE APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7500 PART NUMBER LM0940024-0001 REV C						

ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0016E					NOT FACTORY INSTALLED!	
0017	00008.000	EA		0418262-0017	SCREW 6-32 X .375 CAP, HEX SOCKET, CRES	QPL - MS16995-17
0018	00001.000	EA		0172410-0001	NAMEPLATE-PART/SERIAL NO	
DRAFTSMAN DATE 01/24/78 CTD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE KIT, INSTALLATION, STDBY P/S CONSOLE APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0940024-0001 REV C						

NOTES: (CONTINUED)
 5. REWORK FOR PWB 940016 THRU REV B:
 A. REMOVE PIN 13 OF U2 FROM +15V AND CONNECT TO +12MEM USING 26 GAUGE TEFLON INSULATED WHITE WIRE



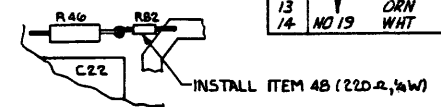
6. REWORK REV C BOARDS AS SHOWN BELOW:



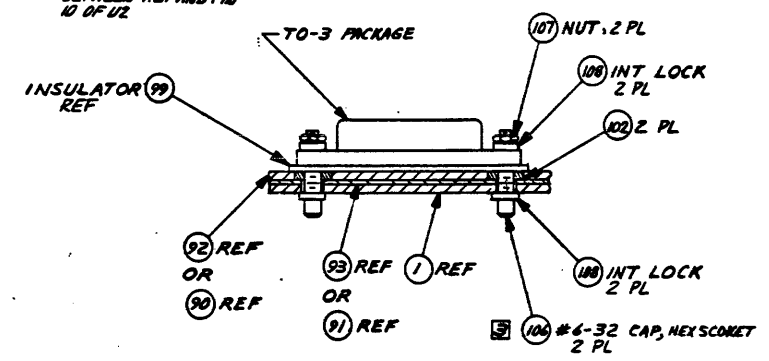
NOTES: (CONTINUED)
 7. ALTERNATE MEAS, SUCH AS LEAD CRIMPING, MAY BE USED TO SPACE THE RESISTORS A-WAY FROM THE PWB AS LONG AS A MINIMUM OF .10 INCHES CLEARANCE IS MAINTAINED

8. DIODE MPD 400, PN 231784-2002 MAY BE SUBSTITUTED FOR ITEM 77.

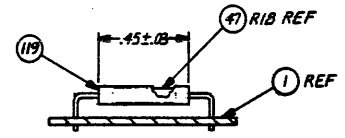
9. REWORK ASSY'S USING PWB 940016 REV A THROUGH F AS FOLLOWS:



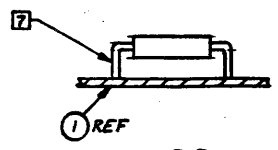
WIRE NO	DESCRIPTION	WIRE LENGTH	WIRE GAUGE	WIRE COLOR	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	ITEM NO
1	NO 20 BLU/WHT		AR		P3-1	E1	-12 MAIN	89
2	NO 20 GRN/WHT		AR		P3-2	E2	OV	
3	NO 20 YEL/WHT		AR		P3-3	E3	+12 MEM	
4	NO 20 DRN/WHT		AR		P3-4	E4	+5 MEM	
5	NO 20 WHT/WHT		AR		P3-5	E5	+12 MAIN	
6	RED/WHT				P3-6	E6	-12 UNREG	
7	GRN/WHT				P3-8	E8	+5 MAIN	89
8	NO 20 BRN/WHT		AR		P3-9	E9	5 OV	83
9	NO 19 RED				T3-1	1		
10	NO 19 BLK				T3-2	2		
11	YEL				T3-3	3		
12	BLU				T3-4	4		
13	DRN				T3-5	5		
14	NO 19 WHT				T3-6	6		83



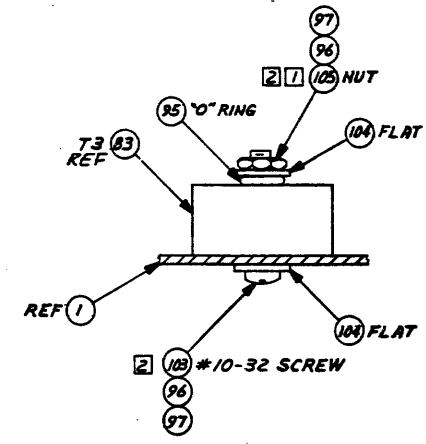
SECTION A-A (SH1)
 SCALE: NONE
 Q3, Q12, Q15, Q28
 CR3, CR12, CR14, CR21



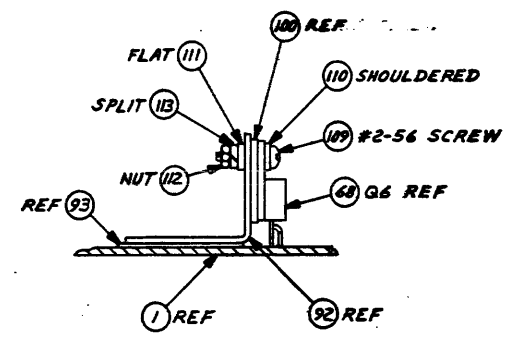
VIEW E-E
 SCALE: NONE
 (SEE SHEET 1)



VIEW D-D (SH1)
 7 PLACES
 (R17, R19, R22, R35, R46, R63, R100)
 SCALE: NONE



VIEW B-B (SH1)
 SCALE: NONE



VIEW C-C (SH1)
 ROTATED 90° CW
 SCALE: NONE

DESIGNED BY PBA	DATE 7/19/77	DRAWING NO. D96214	REVISION NO. 940015
TEXAS INSTRUMENTS		SCALE 1/1	SHEET 2

Standby Power Supply Console

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL PAGE 1 of 4

DATE 11/14/79 PART NUMBER LM 0940015-0001 REV J

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ01	00001.000	EA		0940016-0001	PWB, CONSOLE, STANDBY POWER SUPPLY	
JJ02	REF	EA		0940017-9901	LOGIC DIAGRAM, CONSOLE, STANDBY P/S	
JJ03	REF	EA		0940018-9901	TEST PRUC, CONSOLE, STANDBY POWER SUPPLY	
JJ04	REF	EA		0940019-9901	SPECIFICATION, CONSOLE, STANDBY P/S	
JJ05	00001.000	EA		0996311-0010	CAPACITOR, 1.0000 UF 250 VDC 10%	- MKT-1822-5107
JJ05A					C1	
JJ06	00024.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%	
JJ06A					C2 C4 C14 C15 C16 C17 C20	
JJ06B					C21 C23 C29 C30 C31 C35 C37	
JJ06C					C40 C41 C43 C44 C46 C47 C48	
JJ06D					C49 C50 C51	
JJ07	00001.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10 % 35 VOLT SPK	-1500105X9035A
JJ07A					C5	
JJ08	00001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 % 15 VOLT UPL	-M39003/1-2271
JJ08A					C7	
JJ09	00005.000	EA		0972757-0025	CAP FIX CER .01MF 10% 50V	
JJ09A					C8 C18 C19 C25 C32	
JJ10	00001.000	EA		0972757-0005	CAP, FIXED 220 PF 50mVDC 10%	UC -C51C221K
JJ10A					C9	
JJ11	00001.000	EA		0538319-0034	CAP, FIXED, .006MF 5%	81349K-MR07F6B2JPDH
DRAFTSMAN DATE 11-15-79 CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, STANDBY POWER SUPPLY						
APPRO. MFG. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7506 PART NUMBER LM 0940015-0001 REV J						

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL PAGE 2 of 4

DATE 11/14/79 PART NUMBER LM 0940015-0001 REV J

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ11A					C10	
JJ12	00001.000	EA		0996311-0009	CAPACITOR, 0.1000 UF 400 VDC 10%	012406-201K104
JJ12A					C11	
JJ13	00001.000	EA		0996311-0011	CAPACITOR, 3.3000 UF 100 VDC 10%	- MKT-1822-5337
JJ13A					C12	
JJ14	00001.000	EA		0996326-0005	CAPACITOR 4700UF 20 DCMV ELECTROLYTIC	001939-673D478H020JPS
JJ14A					C13	
JJ15	00001.000	EA		0996326-0002	CAPACITOR 6800UF 6.3 DCMV ELECTROLYTIC	001939-673D680H6R3HPS
JJ15A					C22	
JJ16	00001.000	EA		0972924-0015	CAP FIX TANT SOLID 47 MFD 10 % 20 VOLT QPL	-M39003/1-2295
JJ16A					C24	
JJ17	00002.000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 % 20 VOLT UPL	-M39003/1-2263
JJ17A					C27 C53	
JJ18	00003.000	EA		0972757-0037	CAP FIX CER 0.1MF 10% 50V	
JJ18A					C28 C38 C39	
JJ19	00001.000	EA		0996326-0003	CAPACITOR 1060UF 15 DCMV ELECTROLYTIC	001939-672D106H015ETS
JJ19A					C33	
JJ20	00003.000	EA		0972757-0021	CAP, FIX, CERAMIC, 4700PF, 50V 10%	
JJ20A					C26 C34 C45	
JJ21	00004.000	EA		0972757-0013	CAP., FIXED, AXIAL LEAD, 1000 PF, 10%, 50V	
DRAFTSMAN DATE 11-15-79 CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, STANDBY POWER SUPPLY						
APPRO. MFG. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0940015-0001 REV J						

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL PAGE 3 of 4

DATE 11/14/79 PART NUMBER LM 0940015-0001 REV J

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ21A					C3 C6 C42 C52	
JJ22	00001.000	EA		0996326-0004	CAPACITOR 680UF 20 DCMV ELECTROLYTIC	001939-672D680H020ETS
JJ22A					C36	
JJ23	00002.000	EA		0539370-0481	RES FIX FILM 10.0K OHM 1% .25 WATT	COR -NA55D-100P/H/C
JJ23A					R1 R36	
JJ24	00004.000	EA		0539370-0414	RES FIX FILM 2.00K OHM 1% .25 WATT	COR - NA55
JJ24A					R2 R58 R67 R89	
JJ25	00002.000	EA		0539370-0501	RES FIX FILM 16.2K OHM 1% .25 WATT	COR - NA55
JJ25A					R24 R32	
JJ26	00001.000	EA		0539370-0511	RES FIX FILM 20.5K OHM 1% .25 WATT	COR - NA55
JJ26A					R25	
JJ27	00001.000	EA		0539370-0361	RES FIX FILM 562 OHM 1% .25 WATT	COR - NA55
JJ27A					R26	
JJ28	00001.000	EA		0539370-0607	RESISTOR, 205.K OHMS .25W 1% FX FILM	-NA55
JJ28A					R30	
JJ29	00001.000	EA		0539370-0510	RES FIX FILM 20.0K OHM 1% .25 WATT	COR -NA55D-100P/H/C
JJ29A					R33	
JJ30	00001.000	EA		0539370-0521	RES FIX FILM 26.1K OHM 1% .25 WATT	COR -NA55D-100PP/H/C
JJ30A					R37	
JJ31	00001.000	EA		0539370-0484	RES FIX FILM 10.7K OHM 1% .25 WATT	COR - NA55
DRAFTSMAN DATE 11-15-79 CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, STANDBY POWER SUPPLY						
APPRO. MFG. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0940015-0001 REV J						

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL PAGE 4 of 4

DATE 11/14/79 PART NUMBER LM 0940015-0001 REV J

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ31A					R38	
JJ32	00003.000	EA		0539370-0450	RES FIX FILM 4.75K OHM 1% .25 WATT	COR - NA55
JJ32A					R52 R53 R78	
JJ33	00001.000	EA		0539370-0427	RES FIX FILM 2.74K OHM 1% .25 WATT	COR - NA55
JJ33A					R55	
JJ34	00001.000	EA		0539370-0470	RES FIX FILM 7.68K OHM 1% .25 WATT	COR -NA55D-100PP/H/C
JJ34A					R56	
JJ35	00001.000	EA		0539370-0442	RES FIX FILM 3.92K OHM 1% .25 WATT	COR - NA55
JJ35A					R65	
JJ36	00001.000	EA		0539370-0513	RES FIX FILM 21.5K OHM 1% .25 WATT	COR - NA55
JJ36A					R77	
JJ37	00002.000	EA		0539370-0531	RES FIX FILM 33.2K OHM 1% .25 WATT	COR - NA55
JJ37A					R4 R79	
JJ38	00001.000	EA		0539370-0433	RES FIX FILM 3.16K OHM 1% .25 WATT	COR - NA55
JJ38A					R85	
JJ39	00001.000	EA		0539370-0394	RES FIX FILM 1.24K OHM 1% .25 WATT	COR - NA55
JJ39A					R98	
JJ40	00001.000	EA		0539370-0377	RES FIX FILM 825 OHM 1% .25 WATT	COR - NA55
JJ40A					R99	
JJ41	00001.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	COR - NA55
DRAFTSMAN DATE 11-15-79 CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSOLE, STANDBY POWER SUPPLY						
APPRO. MFG. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0940015-0001 REV J						

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 0940015-0001		REV J*	
DATE 11/14/79									
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ41A					R104				
JJ42	00018.000	EA		0972976-0087	RES, FIX, 1.0K OHM, 5%, 0.25 W, CARBON COMP.				
JJ42A					R6 R10 R11 R23 R40 R45 R48				
JJ42B					R59 R61 R71 R73 R74 R75 R92				
JJ42C					R95 R96 R97 R101				
JJ43	00009.000	EA		0972976-0111	RES, 10K OHMS .25W 5% FIX, COMP, INSULATED	MIL	-RCR07G103J5		
JJ43A					R3 R5 R29 R39 R54 R80 R81				
JJ43B					R87 R91				
JJ44	00001.000	EA		0972976-0243	RESISTOR, FIXED, 3.9 OHMS	KCR07G-3F9J5			
JJ44A					R41				
JJ45	00002.000	EA		0972976-0047	RES FIXED 22 OHMS 5% 1/4 WATT	QPL - 39008			
JJ45A					R16 R102				
JJ46	00001.000	EA		0972976-0057	RES FIXED 56 OHMS 1/4 W 5%				
JJ46A					R27				
JJ47	00003.000	EA		0972976-0065	RES 120 OHM .25W 5% FX COMP INSULATED				
JJ47A					R14 R18 R31				
JJ48	00002.000	EA		0972976-0071	RES, FIX, 220 OHM, 5%, 0.25 W, CARBON COMP.				
JJ48A					R43 R86				
JJ49	00013.000	EA		0972976-0081	RES FIXED 560 OHMS 1/4 W 5%				
JJ49A					R7 R8 R13 R15 R34 R42 R44				
DRAFTSMAN DATE CD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSULE, STANDBY POWER SUPPLY									
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940015-0001 J*									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 0940015-0001		REV J*	
DATE 11/14/79									
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ49B					R47 R62 R64 R69 R70 R103				
JJ50	00004.000	EA		0972976-0121	RESISTOR, FIXED 27K 1/4 WATT 5 & 10%	039008-RCR07G2273J5			
JJ50A					R50 R60 R90 R93				
JJ51	00001.000	EA		0972976-0159	RESISTOR, FIXED, 1.0MEG	RCR07G-105J5			
JJ51A					R12				
JJ52	00001.000	EA		0972976-0167	RES, FIX 2.2 MEG 5% 0.25W CARBON COMP.	81349R-CR07G2225J5			
JJ52A					R49				
JJ53	00004.000	EA		0972976-0105	RESISTOR 5.6 K OHMS .25W 5% FX COMPOSIT	039008-RCR07G562J5			
JJ53A					R9 R28 R57 R94				
JJ54	00002.000	EA		0972977-0065	RESISTOR, 120 OHMS .5 W 5% FX COMP INSUL	039009-RCR20G121J5			
JJ54A					R51 R72				
JJ55	00005.000	EA		0972833-0001	RES, FIX 0.1 OHM 10% 2W				
JJ55A					R22 R46 R63 R68 R100				
JJ56	00001.000	EA		0972833-0012	RES., .50 OHM, 10%, 2W				
JJ56A					R35				
JJ57	00001.000	EA		0972833-0024	RES, FIXED 2.0 2 WATT 5%	044655-SERIES22644RE5			
JJ57A					R19				
JJ58	00001.000	EA		0996344-0028	RES, FIX 500 OHMS 12W 5%	091637-VLM-12			
JJ58A					R20				
JJ59	00001.000	EA		0996350-0053	RESISTOR, FIXED 10000 OHMS 5% 8WATT	DAL - VLM-8			
DRAFTSMAN DATE CD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSULE, STANDBY POWER SUPPLY									
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940015-0001 J*									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 0940015-0001		REV J*	
DATE 11/14/79									
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ59A					R21				
JJ60	00001.000	EA		0539795-0006	RESISTOR, VARIABLE 500 OHM CERMET FILM	BOU - 3069P-1-501			
JJ60A					R66				
JJ61	00001.000	EA		0972833-0005	RES FIXED 0.20 OHM 2WATT 10%				
JJ61A					R17				
JJ62	00003.000	EA		0996666-0001	IC, TL3524 CONTROLLER SWITCHING & RGLTR	001295-TL3524			
JJ62A					U1 U2 U3				
JJ63	00001.000	EA		0972662-0001	NETWORK, SN72723M				
JJ63A					U4				
JJ64	00001.000	EA		0996671-0001	OPTICAL COUPLER TIL 124	001295-TIL 124			
JJ64A					U5				
JJ65	00001.000	EA		0972395-0001	NETWRK, LM324M QUAD OP. AMP	-LM324M			
JJ65A					U6				
JJ66	00012.000	EA		0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222			
JJ66A					Q1 Q2 Q4 Q5 Q7 Q8 Q11 Q17				
JJ66B					Q22 Q23 Q25 Q27				
JJ67	00001.000	EA		0972685-0001	TRANSISTOR, TIP561 NPN POWER				
JJ67A					Q3				
JJ68	00001.000	EA		0958762-0003	XST TIP 31B SOA TESTED	TI -TIP31B			
JJ68A					Q6				
DRAFTSMAN DATE CD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSULE, STANDBY POWER SUPPLY									
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940015-0001 J*									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM 0940015-0001		REV J*	
DATE 11/14/79									
PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. NO.	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ69	00008.000	EA		J800523-0001	TRANSISTOR A5T2907 PNP SILICON	TI- -A5T2907			
JJ69A					Q10 Q13 Q14 Q18 Q21 Q24 Q26				
JJ69B					Q29				
JJ70	00003.000	EA		0236091-5300	XST 2N5302	TI -2N5302			
JJ70A					Q12 Q15 Q28				
JJ71	00002.000	EA		0539879-0001	TRANSISTOR 2N3725A	TI -2N3725A			
JJ71A					Q9 Q16				
JJ72	00001.000	EA		0972934-0010	DIODE, IN755A 7.5 V 5% SIL VOLT REG	QPL - IN755A			
JJ72A					VR1				
JJ73	00001.000	EA		0972934-0002	DIODE, IN747A 3.6 V 5% SIL VOLT REG	QPL - IN747A			
JJ73A					VR2				
JJ74	00013.000	EA		0972932-0001	DIODE IN9148	SEE TI- DRAWING			
JJ74A					CR1 CR2 CR3 CR10 CR11 CR13				
JJ74B					CR16 CR17 CR18 CR19 CR20				
JJ74C					CR22 CR23				
JJ75	00001.000	EA		0539468-0007	DIODE, IN4007 1AMP 1000PIV RECTIFIER	TI -IN4007			
JJ75A					CR5				
JJ76	00002.000	EA		0972268-0006	DIODE IN4937 1 AMP	SEE - TI DRAWING			
JJ76A					CR6 CR7				
JJ77	00001.000	EA		0231784-6003	DIODE, MULTI-PELLET, 90V	04713M-DA952-2			
DRAFTSMAN DATE CD. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE CONSULE, STANDBY POWER SUPPLY									
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940015-0001 J*									

Standby Power Supply Console

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 9 of		PART NUMBER LM 0940015-0001		REV J#	
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0077A					CR8						
0077B					PN 231784-6002 MAY BE USED						
0077C					AS AN ALTERNATE PART FOR						
0077D					ITEM 77.						
0078	00004.000	EA		2210146-0301	RECTIFIER,CENTER-TAPPED, POS OUTPUT	027777-K711X					
0078A					CR9 CR12 CR14 CR21						
0080	00032.000	EA		0972268-0002	DIODE 1N4934-1 AMP	MOT - 1N4934					
0080A					CR4 CR15						
0081	00001.000	EA		0940021-0001	XFMR,FERRITE,E-CORE STBY PWR SPLY,+15V						
0081A					T1						
0082	00001.000	EA		0940126-0001	TRANSFORMER,FERRITE E CORE,P/S BASE DR						
0082A					T2						
0083	00001.000	EA		0940020-0001	XFMR,FERRITE,E-CORE STBY PWR SPLY,+5V						
0083A					T3						
0084	00001.000	EA		0943247-0003	INDUCTOR,FIXED,150UH,5 AMP P/S						
0084A					L1						
0085	00001.000	EA		0938301-0011	COILS,RADIO FREQUENCY,MOLDED	81349H-575089-11					
0085A					L2						
0086	00002.000	EA		0772635-0001	CLIP,FUSE	LIT -102068					
0087	00001.000	EA		0972423-0036	CONNECTOR 2 CONTACTS GREEN UNIV PWB MT	AMP - 5-350428-1					
CONSOLE, STANDBY POWER SUPPLY											
PART NUMBER LM 0940015-0001 REV J#											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 10 of		PART NUMBER LM 0940015-0001		REV J#	
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0087A					J2						
0088	00001.000	EA		0972423-0022	CONNECTOR 2 CONTACTS ORANGE UNIV PWB MT	AMP - 3-350428-1					
0088A					J1						
0089	00001.000	EA		0940047-0001	CABLE ASSY,STANDBY POWER SUPPLY						
0090	00001.000	EA		0940022-0001	HEATSINK,STANDBY,TRANSISTOR						
0091	00001.000	EA		0940034-0001	INSULATOR,HEATSINK,STANDBY,TRANSISTOR						
0092	00001.000	EA		0940023-0001	HEATSINK,STANDBY,DIODE						
0093	00001.000	EA		0940035-0001	INSULATOR,HEATSINK,STANDBY,DIODE						
0094	00004.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9					
0095	00001.000	EA		0411161-0309	"O" RING						
0096	AR	TJ		0418804-0011	SURFACE PRIMER,COMPOUND GRADE T YELLOW						
0097	AR	QT		0418804-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C						
0098	00001.000	EA		0772995-0004	FUSE 10 AMP SLOW BLOW 1/4X1-1/4 IN	BUS -RDA18-0					
0098A					F1						
0099	00008.000	EA		0996521-0003	INSULATOR GRAY .009 THERMALLY COND	055285-7483-09FA-04					
0100	00001.000	EA		0401153-0001	INSULATOR,PLATE .002 THK .155 DIA,PLAS	013103-43-02-95					
0101	00004.000	EA		0972604-0034	SCREW,6-32 X 1/4 HEX WASHER HEAD						
0102	00016.000	EA		0533124-0003	INSULATOR, #10 .093THK BUSHING	004928-A-362-41-3					
0103	00001.000	EA		0972986-0015	SCREW 10-32 1.25 PAN HEAD CRES						
0104	00002.000	EA		0411027-0008	WASHER,FLAT,#10						
CONSOLE, STANDBY POWER SUPPLY											
PART NUMBER LM 0940015-0001 REV J#											

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79		LIST OF MATERIAL		PAGE 11 of		PART NUMBER LM 0940015-0001		REV J#	
ITEM NO.	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
J105	00001.000	EA		0411116-0104	NUT, PLAIN HEX, #10						
0106	00016.000	EA		0418262-0018	SCREW 6-32 X .500 CAP,HEX SOCKET,CRES	QPL - MS16995-18					
0107	00016.000	EA		0411115-0064	NUT,PLAIN 6-32 UNC-28 HEX CRES	QPL - MS35649-264					
J108	00032.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0109	00001.000	EA		0972988-0004	SCREW 2-56 X .312 PAN HEAD CRES						
0110	00001.000	EA		0932720-0001	WASHER- #2 X .093 ID .250 OD NONMETALLIC	096214-532720-1					
J111	00001.000	EA		0416622-0020	WASHER, FLAT .105 ID X.250 OD X.016 THK	QPL -AN960L3L					
0112	00001.000	EA		0411115-0024	NUT,PLAIN 2-56 UNC-28 HEX CRES	QPL - MS35649-224					
J113	00001.000	EA		0411104-0134	WASHER, LOCK-SPRING, HELICAL, #2	QPL - MS35338-134					
J114	00002.000	EA		0184262-0001	PAD,MOUNTING,TD-5, 4 LEAD,RED	THK - 7717-5					
0115	00001.000	EA		0972934-0005	DIODE,1N750A 4.7 V 5% SIL VOLT REG	QPL - 1N750A					
J115A					VR3						
0117	00001.000	EA		0972976-0129	RES,56K 5%						
0117A					R76						
J118	00000.100	FT		0538555-1999	WIRE 26 AWG HOOKUP UL-1609 WHITE	EFT QPL - M22759/18-26					
J119	00000.050	FT		0972434-0016	INSULATION #10 .106ID .016WALL	MKL - TFE-200C-UL-					
CONSOLE, STANDBY POWER SUPPLY											
PART NUMBER LM 0940015-0001 REV J#											

NOTES: UNLESS OTHERWISE SPECIFIED
 1. RESISTORS ARE 1/4 WATT
 2. RESISTANCE IS IN OHMS
 3. CAPACITANCE IS IN MICROFARADS.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE APPROVED
	A	CN427465 (C) R.O. Sida	5-17-77
	B	CN436926 (D) R. Sida	8-2-77 E. King
	C	CN453348 (D) J. Sida	2-25-78

HIGHEST REFERENCE DESIGNATOR USED			
C59	CR23	L2	Q29
R104	T3	TP20	J6
VR3			

UNUSED REFERENCE DESIGNATORS			
Q19	Q20	R82	R83
R84	R88	TP1-6	TP8-9

REV. STATUS	REV	C	E	B	C	B	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PRO. PERCENT OF TOLERATION
D/SHEETS	SH.	1	2	3	4	5						

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 P/R	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	ANGLES ±1°	3 PLACE DECIMALS = .010
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			2 PLACE DECIMALS = .02

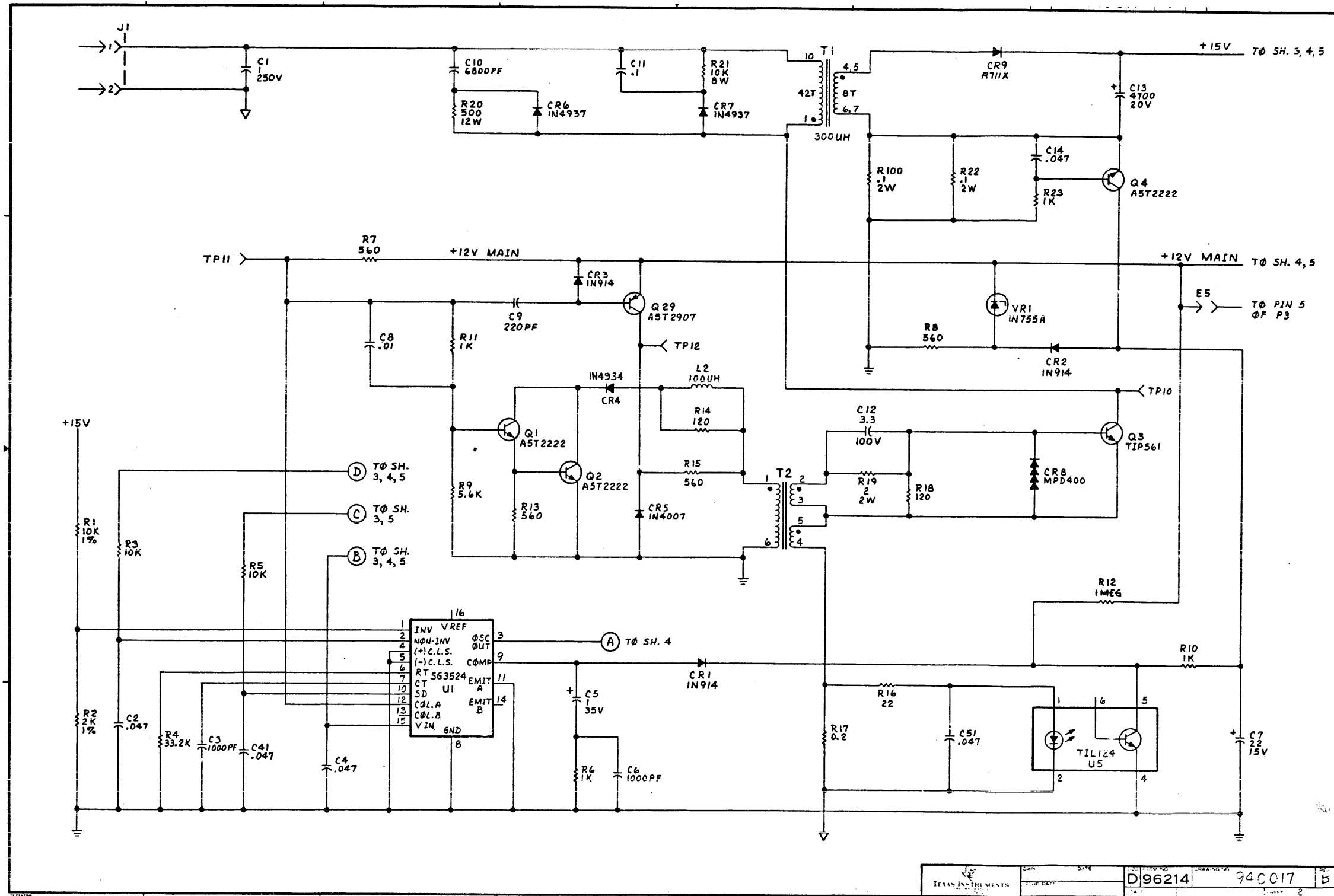
HOLE TOLERANCE		MATERIAL	
.013 +.004	THRU .125		
.013	THRU .250		
.013	THRU .500		
.013	THRU 1.000		

DATE	BY	CHK	ENGR	QA	APVD	CONTR NO	DESIGN ACTIVITY RELEASE
8-18-77	J. Sida	J. Sida	J. Sida	J. Sida	J. Sida		

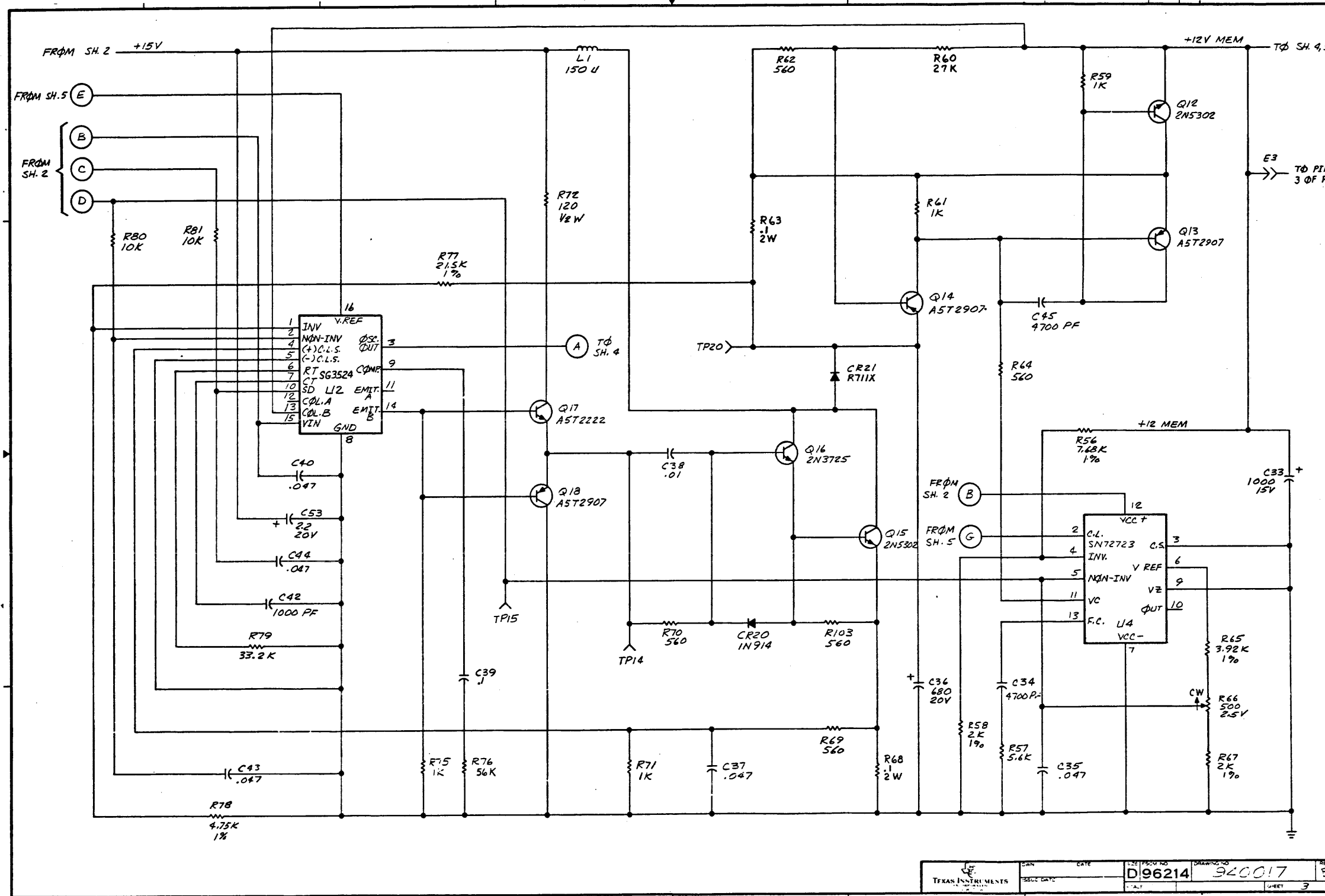
SIZE	CODE IDENT NO	DRAWING NO
D	96214	3400.7

SCALE	SHEET
	2 of 2

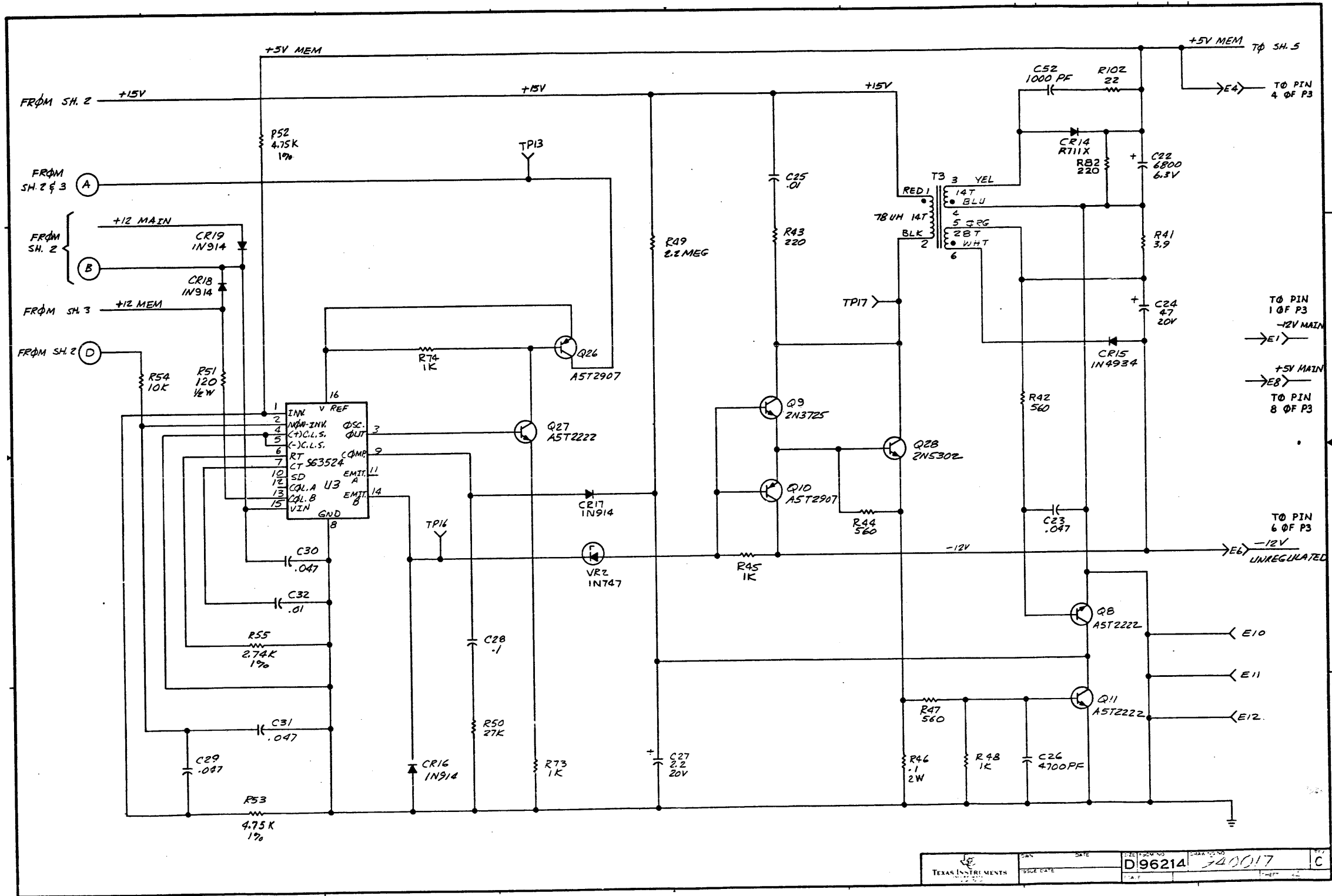
Standby Power Supply Logic Diagram

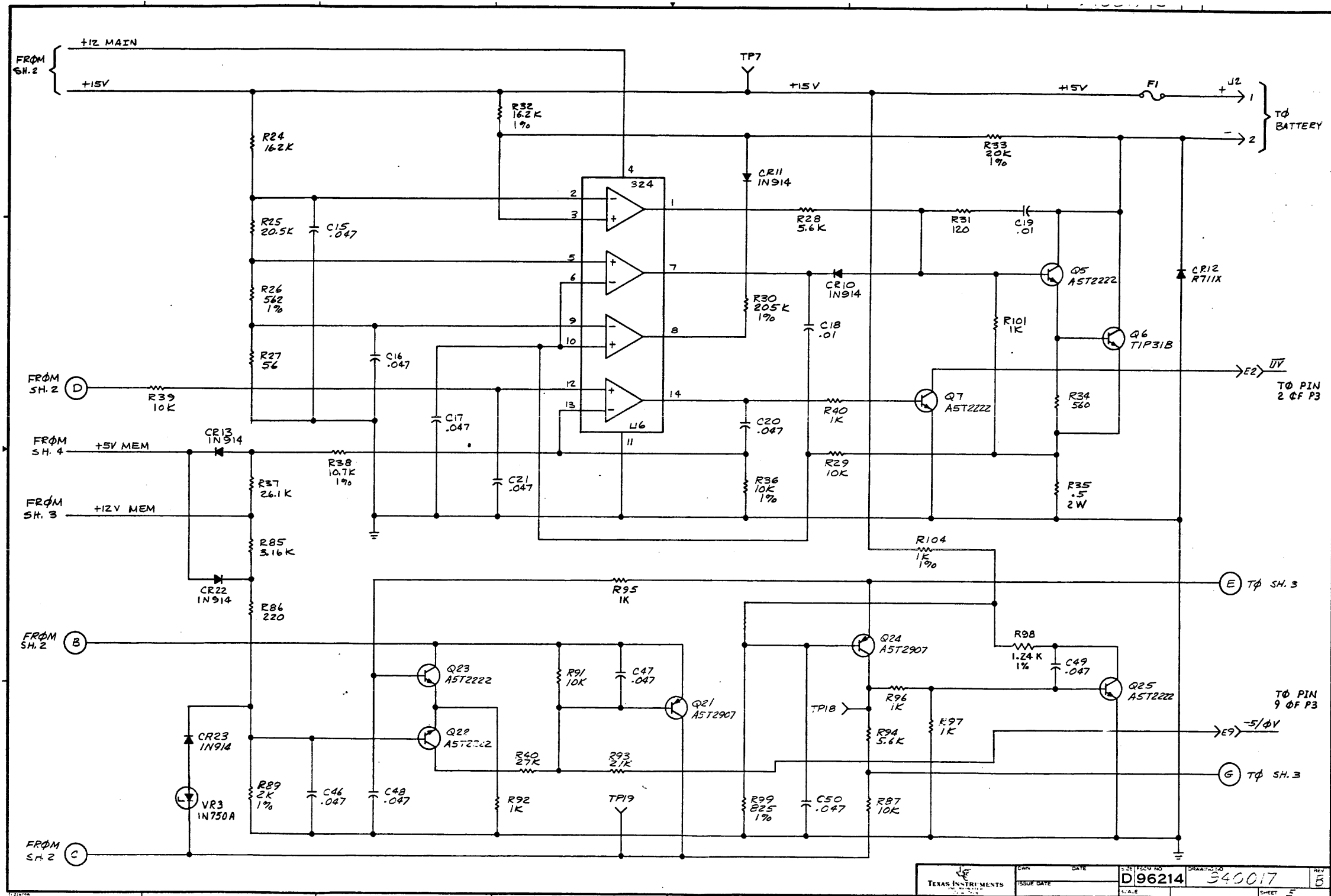


TEXAS INSTRUMENTS	DATE	REV	NO. OF SHEETS	SHEET NO.
			940017	2



DESIGN NO.	D96214	DATE	940017
ISSUE DATE		REV.	1
TEXAS INSTRUMENTS		DRAFT	





DESIGNED BY	DATE	ISSUE NO.	QUANTITY	REV.
TEXAS INSTRUMENTS	ISSUE DATE	D96214	340017	5
SCALE		SHEET		

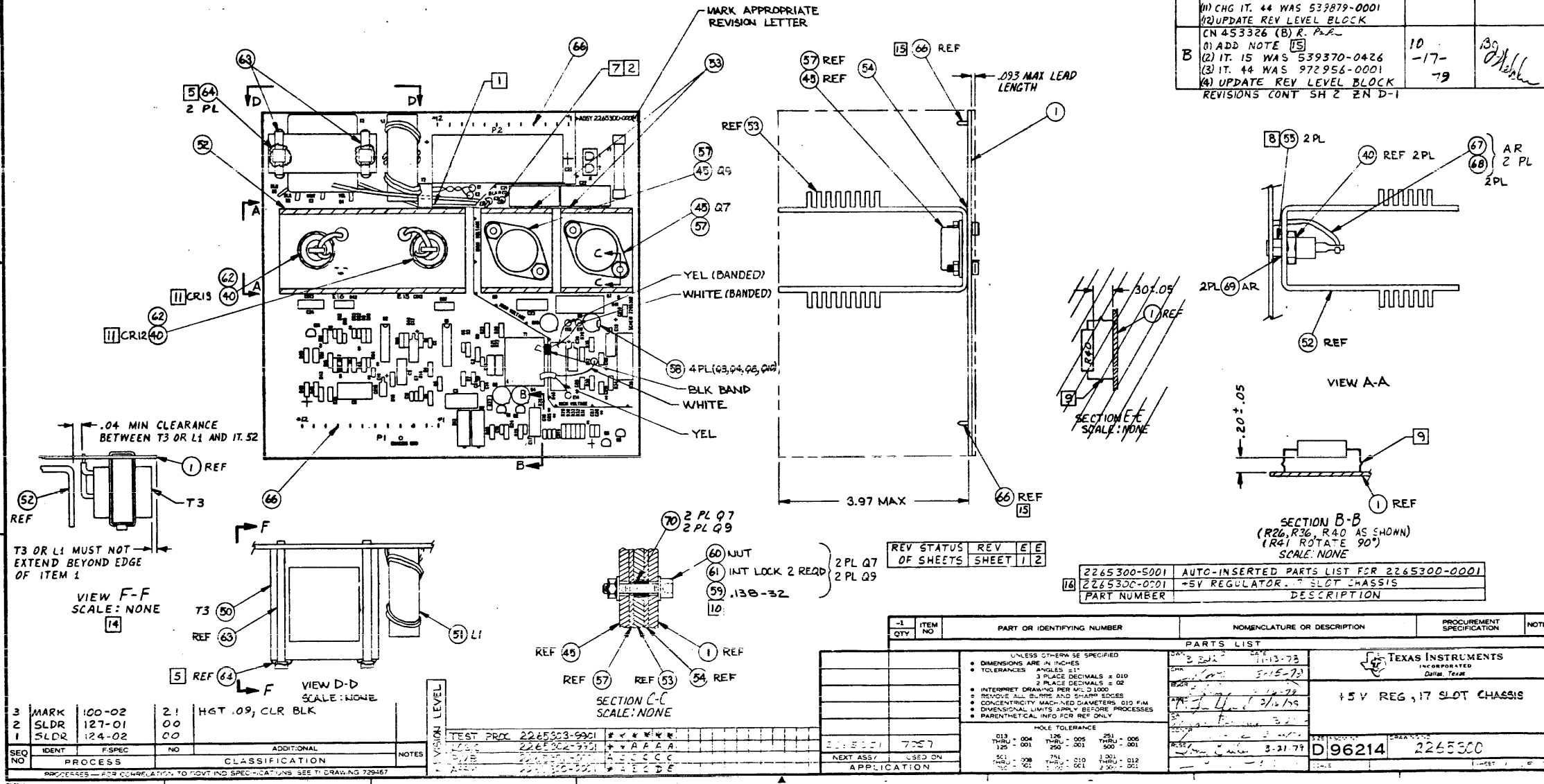
NOTES: UNLESS OTHERWISE SPECIFIED:

- 1 ROUTE #1 LEAD (RED) OF T3 THRU CENTER OF T2 AND CONNECT TO E7
- 2 CONNECT #2 LEAD (BLACK) OF T3 TO E8
- 3 CONNECT LEADS OF T2 TO E1 AND E2. (ORDER OPTIONAL)
- 4 CONNECT LEADS 3,4,5,6, OF T3 TO E3,E4,E5 (E6 RESPECTIVELY)
- 5 APPLY ITEM 64 TO TIEWRAPS ON T3 TO PREVENT TIEWRAPS FROM SLIDING OFF THE EDGE OF THE TRANSFORMER CORE
- 6 CONNECT CR12 TO E15 AND CR13 TO E16
- 7 WHEN TERMINATING LEADS #1 AND #2 OF T3 IN ITEM 1 MAKE SURE BARE (UNSLEEVED) AREAS OF THE LEADS CANNOT BE CLOSER THAN .10 INCH TO EACH OTHER OR ANY OTHER CONDUCTING SURFACE.

- 8 FLARE AND SOLDER ON BOTH SIDES OF PWB (2 PLACES)
- 9 CRIMP LEADS TO PROVIDE CLEARANCE
- 10 TORQUE TO A MINIMUM OF 12 INCH lbs
- 11 TORQUE TO A MINIMUM OF 20 INCH lbs
12. A. CONNECT T1 LEAD #11 (WHITE WITH BAND) TO E11
 B. CONNECT T1 LEAD #12 (WHITE WITH NO BAND) TO E12
 C. CONNECT T1 LEAD #13 (YEL WITH BAND) TO E13
 D. CONNECT T1 LEAD #14 (YEL WITH NO BAND) TO E14
13. SQUARE MOUNTING PADS INDICATE PIN 1, DIODE CATHODES OR POSITIVE TERMINALS OF CAPACITORS

- 14 WHEN MOUNTING T3 & L1 ENSURE THAT NO PART OF THE BODIES EXTENDS BEYOND THE EDGE OF THE BOARD (ITEM 1) OR THAT THE LEADS IN E3, E4, E5 OR E6 FROM T3 DO NOT TOUCH THE DIODE HEATSINK. ALSO ENSURE NO PART OF L1 TOUCHES THE DIODE HEATSINK
- 15 CLENCH TABS OF ITEM 66 (CONNECTOR) AT 90° BEFORE SOLDERING
- 16 ITEM 71 IN THE -0001 L/M CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 L/M

REV	DESCRIPTION	DATE	APPROVED
CN 454699 (C) R. P.A.	112N C-6; 'E7' WAS 'E8', 'E8' WAS 'E7', 'RED' WAS 'BLK' AND 'BLK' WAS 'RED' (2) CHG IT. 59 WAS 48262-2018 (3) ADD NOTE 14 (4) ADD VIEW F-F (5) 2N B-2, SECTION B-B; CHG DIM. .20 ± .05 WAS .04 MINIMUM (6) 2N B-4; CHG DIM. 3.97 MAX. WAS 3.91 MAX. (7) 2N B-3 DELETE SECTION E-E (8) 2N A-2; NOTATION OF SECTION B-B WAS '(R24, R36 ROTATED 90° CW)', (R41 AS SHOWN), SCALE: NONE (9) CHG LOCATION OF IT. 64 FROM T2, T3 & L1 BETWEEN COMPONENTS AND BOARD TO TOP OF T3 ON TIEWRAP KNOTS (IT. 63) (10) CHG NOTE 5, WAS 'APPLY ITEM 64 TO T2, T3 AND L1 TO PROVIDE MECHANICAL STABILITY' (11) CHG IT. 44 WAS 532879-0001 (12) UPDATE REV LEVEL BLOCK		
CN 453326 (B) R. P.A.	(1) ADD NOTE 15 (2) IT. 15 WAS 539370-0426 (3) IT. 44 WAS 972956-0001 (4) UPDATE REV LEVEL BLOCK	10-17-79	<i>[Signature]</i>



REV STATUS OF SHEETS	REV	E	E
	1	1	2

2265300-5001	AUTO-INSERTED PARTS LIST FOR 2265300-0001
2265300-0701	+5V REGULATOR, 17 SLOT CHASSIS
PART NUMBER	DESCRIPTION

ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
1	2265300-0701	+5V REGULATOR, 17 SLOT CHASSIS		

SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES
3	MARK	100-02	21	HGT .09, CLR BLK	
2	SLDR	127-01	00		
1	SLDR	124-02	00		

PROCESS CLASSIFICATION

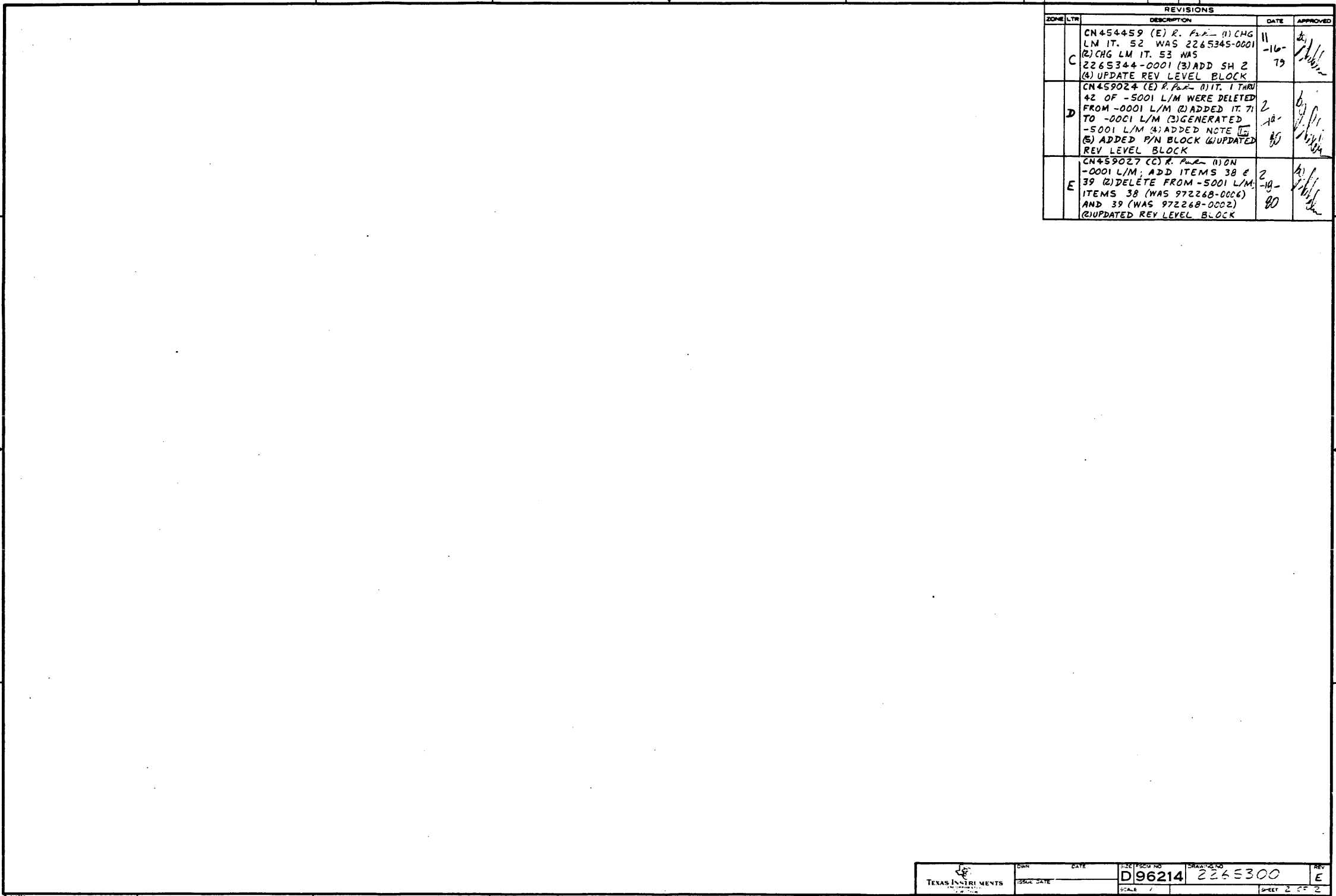
TEST PROC	2265303-9901	REV	1
DATE	2265302-9901	REV	1
APP'D	2265302-9901	REV	1

HOLE TOLERANCE	THRU	THRU	THRU	THRU
010	004	100	005	005
125	001	250	001	500
150	001	250	001	500
150	008	751	010	1.000
150	021	1.000	021	2.000

TEXAS INSTRUMENTS
 INCORPORATED
 Dallas, Texas

15V REG, 17 SLOT CHASSIS

D96214 2265300



REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	C	CN454459 (E) R. P. 11) CHG LM IT. 52 WAS 2265345-0001 (2) CHG LM IT. 53 WAS 2265344-0001 (3) ADD SH 2 (4) UPDATE REV LEVEL BLOCK	11-16-79
	D	CN459024 (E) R. P. 11) IT. 1 THRU 42 OF -5001 L/M WERE DELETED FROM -0001 L/M (2) ADDED IT. 71 TO -0001 L/M (3) GENERATED -5001 L/M (4) ADDED NOTE (5) ADDED P/N BLOCK (6) UPDATED REV LEVEL BLOCK	2-18-80
	E	CN459027 (C) R. P. 11) ON -0001 L/M; ADD ITEMS 38 & 39 (2) DELETE FROM -5001 L/M ITEMS 38 (WAS 972268-0006) AND 39 (WAS 972268-0002) (3) UPDATED REV LEVEL BLOCK	2-18-80

 TEXAS INSTRUMENTS	OWN	DATE	SIZE	PROJ. NO.	DRWG. NO.	REV.
	ISSUE DATE		D	96214	2265300	E
	SCALE					SHEET 2 OF 2

TEXAS INSTRUMENTS INCORPORATED DATE 02/13/80 LIST OF MATERIAL PAGE 1 of 4 LM 2265300-0001 REV E

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0002	REF	EA		2265302-9901	LOGIC DIAGRAM,+5V REGULATOR,17 SLOT	
0003	REF	EA		2265303-9901	TEST PROC,+5V REGULATOR,17 SLOT CHASSIS	
0004	REF	EA		2265304-9901	SPECIFICATION,+5V REGULATOR,17 SLOT	
0018	0002.000	EA		0972977-0235	RES,FIX COMP 3.9 OHMS 1/2W 5% R37 R42	813498-CR20G3R9JS
0018A						
0020	0002.000	EA		0539795-0006	RESISTOR,VARIABLE 500 OHM CERMET FILM R2 R13	80U - 3069P-1-501
0020A						
0021	0001.000	EA		0972833-0057	RES,WH,FXD,2WATT, 20 OHMS R26	044655-SEE DRAWING
0021A						
0022	0002.000	EA		0972942-0011	RES FIX 5.00 OHMS 5% 5 WATT WIREWOUND R34 R40	OHM - 995-4549
0022A						
0023	0001.000	EA		0972942-0042	RES FIXED 1 K OHMS +5% 5 WATT R41	DAL - CM OR RS
0023A						
0025	0001.000	EA		0996311-0015	CAPACITOR,1.0000 UF 100 VDC 10% C8	
0025A						
0026	0002.000	EA		0996311-0012	CAPACITOR,0.0100 UF 100 VDC 10% C9 C24	012406-Z0IR103
0026A						
0027	0001.000	EA		0972476-0001	CAP,.01UF,1% 50VDC MINIMUM C3	SEE - TI DRAWING
0027A						
0032	0002.000	EA		0996311-0016	CAP,FXD,METALLIZED POLYESTER, 400 VDC	053332-SEE DRAWING
DRAFTSMAN: R. Park DATE 2/15/80 CDD DRAFTSMAN: J. J. H. DATE 2-18-80 TITLE: +5V REGULATOR,17 SLOT CHASSIS APP'D: MFC DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV 7057 LM 2265300-0001 E						

TEXAS INSTRUMENTS INCORPORATED DATE 02/13/80 LIST OF MATERIAL PAGE 2 of 4 LM 2265300-0001 REV E

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0032A					C21 C22	
0033	0001.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10 X 35 VOLT SPR	-1500105X9035A
0033A					C10	
0034	0001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT OPL	-R39003/1-2271
0034A					C12	
0035	0001.000	EA		0972928-0003	CAP, .0012 UF 5% 500VDC MICA DIELECTRIC	
0035A					C23	
0036	0001.000	EA		0804115-0115	CAP,FXD,AL ELECTROLYTIC, 11,000 UF	000853-SEE DRAWING
0036A					C25	
0038	0002.000	EA		0972268-0006	DIODE 1N4937 1 AMP	SEE - TI DRAWING
0038A					CR10 CR11	
0039	0004.000	EA		0972268-0002	DIODE 1N4934-1 AMP	NOT - 1M4934
0039A					CR6 CR7 CR8 CR9	
0040	0002.000	EA		0974816-0001	DIODE S051	
0040A					CR12 CR13	
0043	00005.000	EA		0972057-0001	TRANSISTOR-A5V2222 NPN SILICON	TI- -A5T2222
0043A					Q1 Q2 Q5 Q6 Q11	
0044	00004.000	EA		0539879-0001	TRANSISTOR 2N3725A	TI -2N3725A
0044A					C3 C4 Q8 Q10	
0055	0002.000	EA		0972685-0001	TRANSISTOR, TIP561 NPN POWER	
DRAFTSMAN: DATE DATE CDD DRAFTSMAN: DATE DATE DESIGN ENGINEER: DATE DATE TITLE: +5V REGULATOR,17 SLOT CHASSIS APP'D: MFC DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2265300-0001 E						

TEXAS INSTRUMENTS INCORPORATED DATE 02/13/80 LIST OF MATERIAL PAGE 3 of 4 LM 2265300-0001 REV E

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0045A					Q7 Q9	
0046	0001.000	EA		0996666-0001	IC,TL3524 CONTROLLER SWITCHING & RGLTR	001295-TL3524
0046A					U1	
0047	0001.000	EA		0972663-0001	NETWORK,LM339M	
0047A					U2	
0048	0001.000	EA		2265341-0001	TRANSFORMER,BASE DRIVE,17 SLOT CHASSIS	
0048A					T1	
0049	0001.000	EA		2265343-0001	CURRENT TRANSFORMER,17 SLOT CHASSIS	
0049A					T2	
0050	0001.000	EA		2265340-0001	TRANSFORMER,+5V,17 SLOT CHASSIS	
0050A					T3	
0051	0001.000	EA		2265342-0001	INDUCTOR,17 SLOT CHASSIS	
0051A					L1	
0052	0001.000	EA		2265423-0001	HEATSINK,EXTRUDED,DIODE,17 SLOT	
0053	0002.000	EA		2265425-0001	HEATSINK,EXTRUDED,TRANSISTOR,17 SLOT	
0054	0001.000	EA		2265346-0001	INSULATOR,HEATSINK	
0055	0002.000	EA		2265280-0001	SPACER,SHOULDER,DIODE	
0056	0001.000	EA		0972217-2000	FUSE,2AMP,GLASS TUBE PIGTAIL	071400-GJN
0056A					F1	
0057	0002.000	EA		0996521-0003	INSULATOR GRAY .009 THERMALLY COND	055285-7403-09FR-04
DRAFTSMAN: DATE DATE CDD DRAFTSMAN: DATE DATE DESIGN ENGINEER: DATE DATE TITLE: +5V REGULATOR,17 SLOT CHASSIS APP'D: MFC DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2265300-0001 E						

TEXAS INSTRUMENTS INCORPORATED DATE 02/13/80 LIST OF MATERIAL PAGE 4 of 4 LM 2265300-0001 REV E

PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0058	00004.000	EA		C184262-0001	PAD, MOUNTING, TO-5, 4 LEAD, RED	THR - 7717-5
0059	00004.000	EA		0418262-0019	SCREW 6-32 X .625 CAP, HEX SOCKET, CRES	QPL - MS16995-19
0060	00004.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-28 HEX CRES	QPL - MS35449-264
0061	00008.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
0062	00002.000	EA		0802373-0038	INSULATOR, PLATE, 1671 MATERIAL	018565-SEE DRAWING
0063	00002.000	EA		0418212-0020	STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3367-2-9
0064	AR	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302
0065	00001.000	EA		0996287-0001	HEADER, PIN, SHORT SOLDER TAIL, 2 CIRCUITS	000779-350786-1
0065A					J1	
0066	00002.000	EA		2265276-0001	CONN, RCPT 8C HT, 250CTR, TYPE A, STD PRESS	
0066A					P1 P2	
0067	00000.300	FT		0414316-0003	WIRE, COPPER, #16AWG ROUND	071002-2016
0068	00000.300	FT		0972434-0010	INSUL SLEEVING, #16 .053ID .016WALL THK	MKL - TFE-200C-UL-16
0069	AR	EA		0905889-0001	COMPOUND, ELECTRICAL JOINT	
0070	00004.000	EA		2265352-0001	SLEEVE, INSULATING	
0071	00001.000	EA		2265300-5001	AUTO-INSERTED PARTS LIST FOR 2265300-1	
DRAFTSMAN: DATE DATE CDD DRAFTSMAN: DATE DATE DESIGN ENGINEER: DATE DATE TITLE: +5V REGULATOR,17 SLOT CHASSIS APP'D: MFC DATE DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2265300-0001 E						

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 1 of 3		PART NUMBER LM 2265300-5001		REV E	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265301-0001	PWR,+5V REGULATOR,17 SLOT CHASSIS						
0005	00001.000	EA		0972976-0039	RES,FIX 10 OHMS 5% 0.25W CARBON COMP.	81349R-CR07G2100JS					
0005A					R31						
0006	00004.000	EA		0972976-0049	RES FIXED 27 OHMS 1/4 W 5%						
0006A					R34 R38 R45 R46						
0007	00004.000	EA		0972976-0057	RES FIXED 56 OHMS 1/4 W 5%						
0007A					R35 R39 R44 R48						
0008	00006.000	EA		0972976-0087	RES,FIX,1.0K OHM, 5%,0.25 W,CARBON COMP.						
0008A					R7 R19 R23 R28 R30 R32						
0009	00004.000	EA		0972976-0081	RES FIXED 560 OHMS 1/4 W 5%						
0009A					R24 R25 R27 R49						
0010	00005.000	EA		0972976-0105	RESISTOR 5.6 K OHMS .25W 5% FX COMPOSIT	039008-RCR07G562JS					
0010A					R9 R29 R33 R43 R47						
0011	00004.000	EA		0972976-0111	RES,10K OHMS .25W 5% FIX,COMP,INSULATED	MIL -RCR07G103JS					
0011A					R10 R11 R12 R16						
0012	00002.000	EA		0972976-0135	RES FIXED 100 K OHMS 1/4 W 5%						
0012A					R8 R15						
0013	00001.000	EA		0972976-0159	RESISTOR,FIXED,1.0MEG	RCR07G-105JS					
0013A					R17						
0014	00001.000	EA		0539370-0356	RES FIX FILM 499 OHM 1% .25 WATT	COR - NA55					
DRAFTSMAN: <i>R. Paul</i> DATE: 2/14/80 CEO: <i>R. Paul</i> DATE: 2-18-80 TITLE: AUTO-INSERTED PARTS LIST FOR 2265300-1 APPR. ENG: DATE: DATE: DATE: DATE: PROJECT NO: PART NUMBER: LM 2265300-5001 REV: E											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 2 of 3		PART NUMBER LM 2265300-5001		REV E	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014A					R14						
0015	00001.000	EA		0539370-0423	RES FIX FILM 2.49K OHM 1% .25 WATT	COR - NA55					
0015A					R6						
0016	00005.000	EA		0539370-0453	RES FIX FILM 5.11K OHM 1% .25 WATT	COR - NA55					
0016A					R1 R3 R4 R5 R18						
0017	00001.000	EA		0539370-0577	RES FIX FILM 100 K OHM 1% .25 WATT	COR - NA55					
0017A					R20						
0019	00002.000	EA		0972977-0087	RES,FXD,CPSM,1/2W, 1.0K OHMS, 5%	039008-SEE DRAWING					
0019A					R21 R22						
0024	00005.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80V,-20%						
0024A					C1 C5 C7 C15 C18						
0028	00001.000	EA		0972757-0037	CAP FIX CER 0.1MF 10% 50V						
0028A					C2						
0029	00002.000	EA		0972757-0013	CAP.,FIXED,AXIAL LEAD,1000 PF,10%,50V						
0029A					C16 C17						
0030	00002.000	EA		0972757-0009	CAP FIX CER 470PF 10% 50V						
0030A					C13 C14						
0031	00002.000	EA		0972757-0001	CAP,FIXED CERAMIC 100 PF 10% 50V	UC -C51C101K					
0031A					C6 C11						
0034	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT QPL	-M39003/1-2271					
DRAFTSMAN: DATE: DATE: DATE: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 2265300-1 APPR. ENG: DATE: DATE: DATE: DATE: PROJECT NO: PART NUMBER: LM 2265300-5001 REV: E											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 3 of 3		PART NUMBER LM 2265300-5001		REV E	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0034A					C19 C20						
0037	00007.000	EA		0972932-0081	DIODE 1N9168	SEE TI- DRAWING					
0037A					CR1 CR2 CR3 CR4 CR5 CR14						
0037B					CR15						
0041	00001.000	EA		0972934-0007	DIODE,1N752A 5.6 V 5% SIL VOLT REG	QPL - 1N752A					
0041A					VR1						
0042	00001.000	EA		0972934-0013	DIODE,1N758A 10.0V 5% SIL VOLT REG	QPL - 1N758A					
0042A					VR2						
DRAFTSMAN: DATE: DATE: DATE: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 2265300-1 APPR. ENG: DATE: DATE: DATE: DATE: PROJECT NO: PART NUMBER: LM 2265300-5001 REV: E											

+ 5 Volt Main Power Supply Schematic Diagram

NOTES UNLESS OTHERWISE SPECIFIED:
 1. CAPACITANCE VALUES ARE IN MICROFARADS
 2. RESISTANCE VALUES ARE IN OHMS
 3. RESISTORS ARE 1/4 WATT, 5%

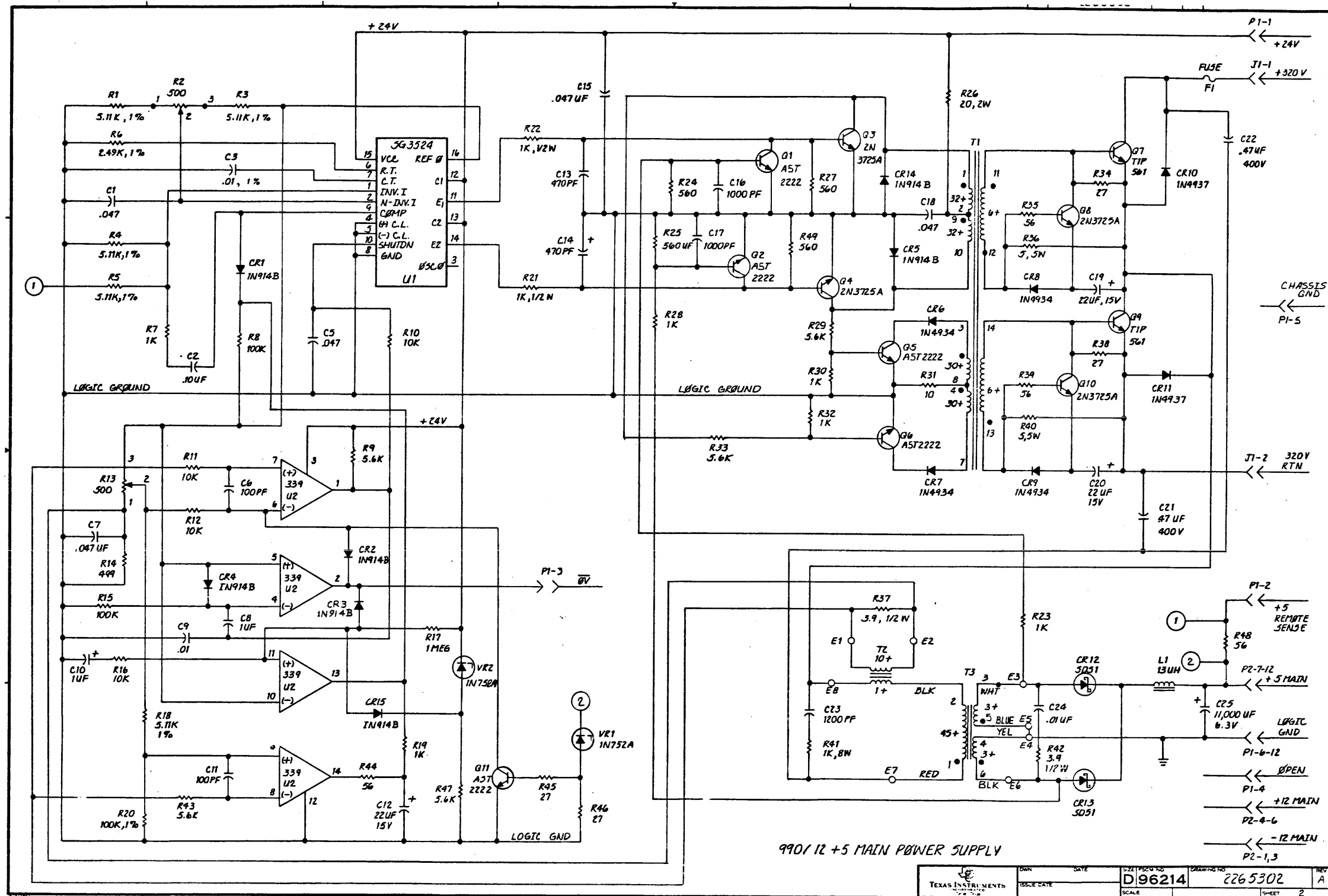
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN453327 (C) R. R. K.	11-16-79	[Signature]

HIGHEST REFERENCE DESIGNATOR USED			
C25	CR15	E6	F1
L1	Q11	R49	T3
U2	VR2		

UNUSED REFERENCE DESIGNATORS			
C4			

REV	STATUS	REV.	A	A
ØF	SHEETS	SH.	1	2

-1 QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES																								
			PARTS LIST																										
			<ul style="list-style-type: none"> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ± 0.01 2 PLACE DECIMALS ± 0.02 INTERNET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS 0.10 FIM DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHEICAL INFO FOR REF ONLY 																										
			<table border="1"> <tr> <th colspan="3">HOLE TOLERANCE</th> </tr> <tr> <td>Ø13</td> <td>Ø16</td> <td>Ø21</td> </tr> <tr> <td>THRU - 004</td> <td>THRU - 005</td> <td>THRU - 006</td> </tr> <tr> <td>1.25 - 001</td> <td>1.50 - 001</td> <td>2.00 - 001</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>Ø31</td> <td>Ø41</td> <td>Ø51</td> </tr> <tr> <td>THRU - 008</td> <td>THRU - 010</td> <td>THRU - 012</td> </tr> <tr> <td>1.75 - 001</td> <td>2.00 - 001</td> <td>2.75 - 001</td> </tr> </table>	HOLE TOLERANCE			Ø13	Ø16	Ø21	THRU - 004	THRU - 005	THRU - 006	1.25 - 001	1.50 - 001	2.00 - 001				Ø31	Ø41	Ø51	THRU - 008	THRU - 010	THRU - 012	1.75 - 001	2.00 - 001	2.75 - 001		
HOLE TOLERANCE																													
Ø13	Ø16	Ø21																											
THRU - 004	THRU - 005	THRU - 006																											
1.25 - 001	1.50 - 001	2.00 - 001																											
Ø31	Ø41	Ø51																											
THRU - 008	THRU - 010	THRU - 012																											
1.75 - 001	2.00 - 001	2.75 - 001																											
			TEXAS INSTRUMENTS INCORPORATED DALLAS, TEXAS																										
			LOGIC DIAGRAM, +5 REGULATOR, 17 SLOT CHASSIS, POWER SUPPLY																										
			D96214																										
			2265302																										



NOTES: UNLESS OTHERWISE SPECIFIED:

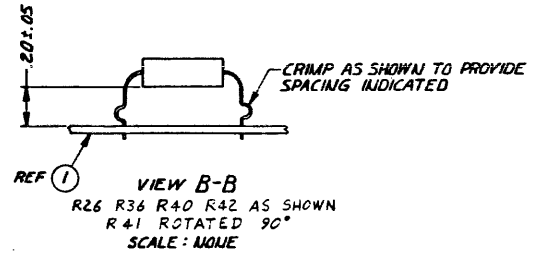
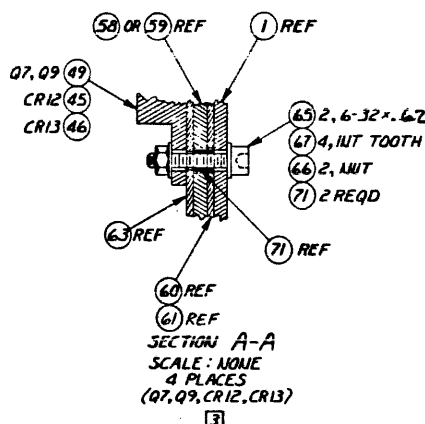
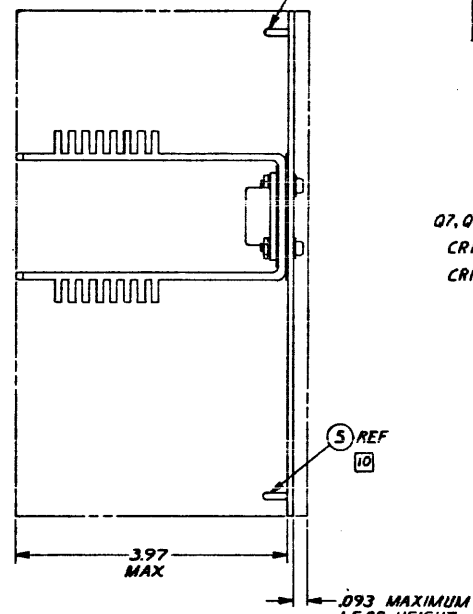
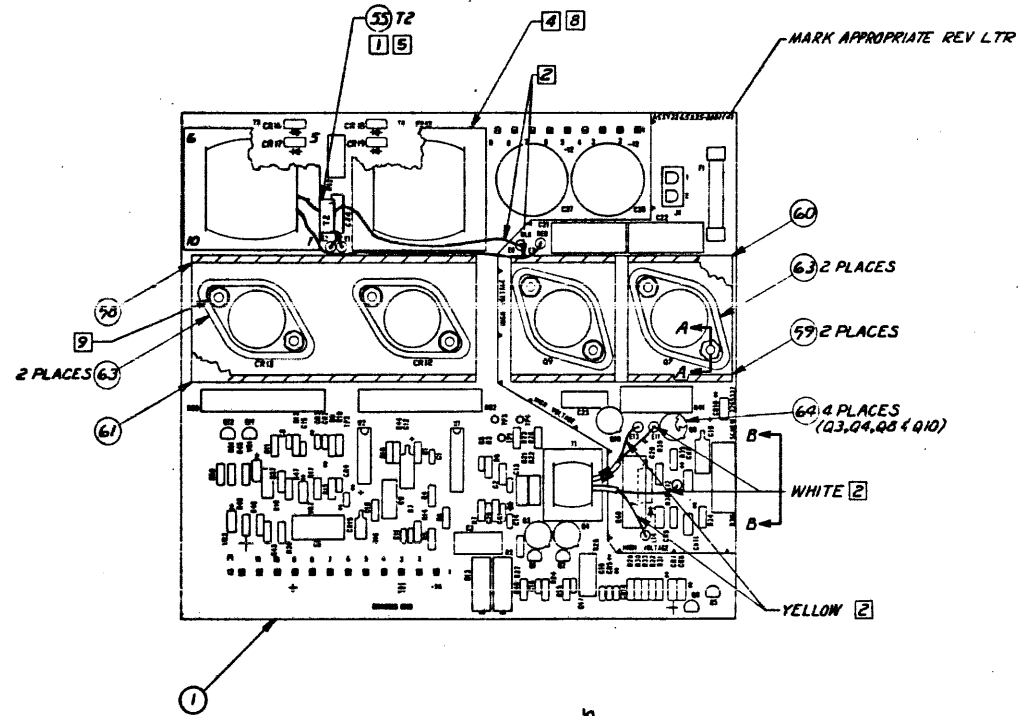
- 1 PASS EITHER THE BLK OR RED LEAD FROM T3 THRU T2 AS SHOWN
- 2 CONNECT LEAD "J" OF T1 (BANDED, YEL) TO E13
- CONNECT LEAD "H" OF T1 (BANDED, WH) TO E11
- CONNECT LEAD "I" OF T1 (WH) TO E12
- CONNECT LEAD "K" OF T1 (YEL) TO E14
- CONNECT RED LEAD OF T3 TO E7
- CONNECT BLK LEAD OF T3 TO E8
- 3 TORQUE TO A MINIMUM OF 12 INCH LBS
- 4 ORIENTATION OF T4 OPTIONAL
- 5 CONNECT LEADS OF T2 TO E1 AND E2 (ORDER OPTIONAL)
- 6 APPLY ITEM 68 TO PROVIDE MECHANICAL STABILITY WHERE INDICATED

- 7 SQUARE PADS INDICATE PIN #1, DIODE CATHODES, OR POSITIVE TERMINALS AT CAPACITORS
- 8 DO NOT ALLOW LEADS FROM T1 TO BE SQUEEZED BETWEEN ITEMS 57 AND 58
- 9 ON REVISION "A" AND "B" ASSEMBLIES, USE ITEM 74 (SPLIT LOCK WASHER) IN THE PLACE OF ITEM 67 (INTERNAL TOOTH LOCKWASHER) AT THIS LOCATION ONLY ON SOLDER SIDE OF BOARD

- 10 CLENCH TABS OF ITEM 5 (CONNECTOR) AT 90° BEFORE SOLDERING
- 11 ITEM 75 ON THE -0001 L/M CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED AND CONTAINED IN THE -5001 L/M

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN 450894 (B) R. P. ... 1) CHG IT. 16 QTY FROM 3 TO 2 (2) ADD IT. 73 (3) UPDATE REVISION LEVEL BLOCK	8-9-79	J. P. ...
B	CN 454697 (C) R. P. ... 1) CHG IT. 65 WAS 41822-0018 (2) ADD NOTE B (3) DELETE NOTE 6 (4) DELETE IT. 68 WAS 996069-0003 (5) CHG IT. 4A WAS 539276-0001 (6) ADD IT. 74 (7) ADD NOTE 9 (8) EN B-6; DIM .20 ± .05 WAS .30 ± .05 FOR R40; .04 MIN FOR R26, R36, R41, R42 (9) EN A-5; NOTATION ON VIEW B-B WAS "R+1 AS SHOWN, R26 R36 R40 R42 ROTATED 90 CW, SCALE: NONE (10) UPDATED REVISION LEVEL BLOCK	9-12-79	B. ...
C	CN 453324 (B) R. P. ... 1) CHG IT. 48 WAS 972956-0001 (2) CHG IT. 70 WAS 539370-0426 (3) ADD NOTE 10 (4) UPDATE REV LEVEL BLOCK	10-10-79	B. ...

REVISIONS CONT SH 2 EN D-1



2265335-5001	AUTO INSERTED PARTS LIST FOR 2265335-1
2265335-0001	+/- 12V POWER SUPPLY, 17 SLOT CHASSIS
PART NUMBER	DESCRIPTION

REVISION STATUS OF SHEETS	REV	E	E

REV LEVEL	TEST PROC	2265335-9901	*	*	*	*	*	*
	LOGIC	2265337-9901	*	*	A	B	B	B
	PWB	2265336-0001	A	A	B	B	B	B
	ASSEMBLY	2265335-0001	*	A	B	C	D	E

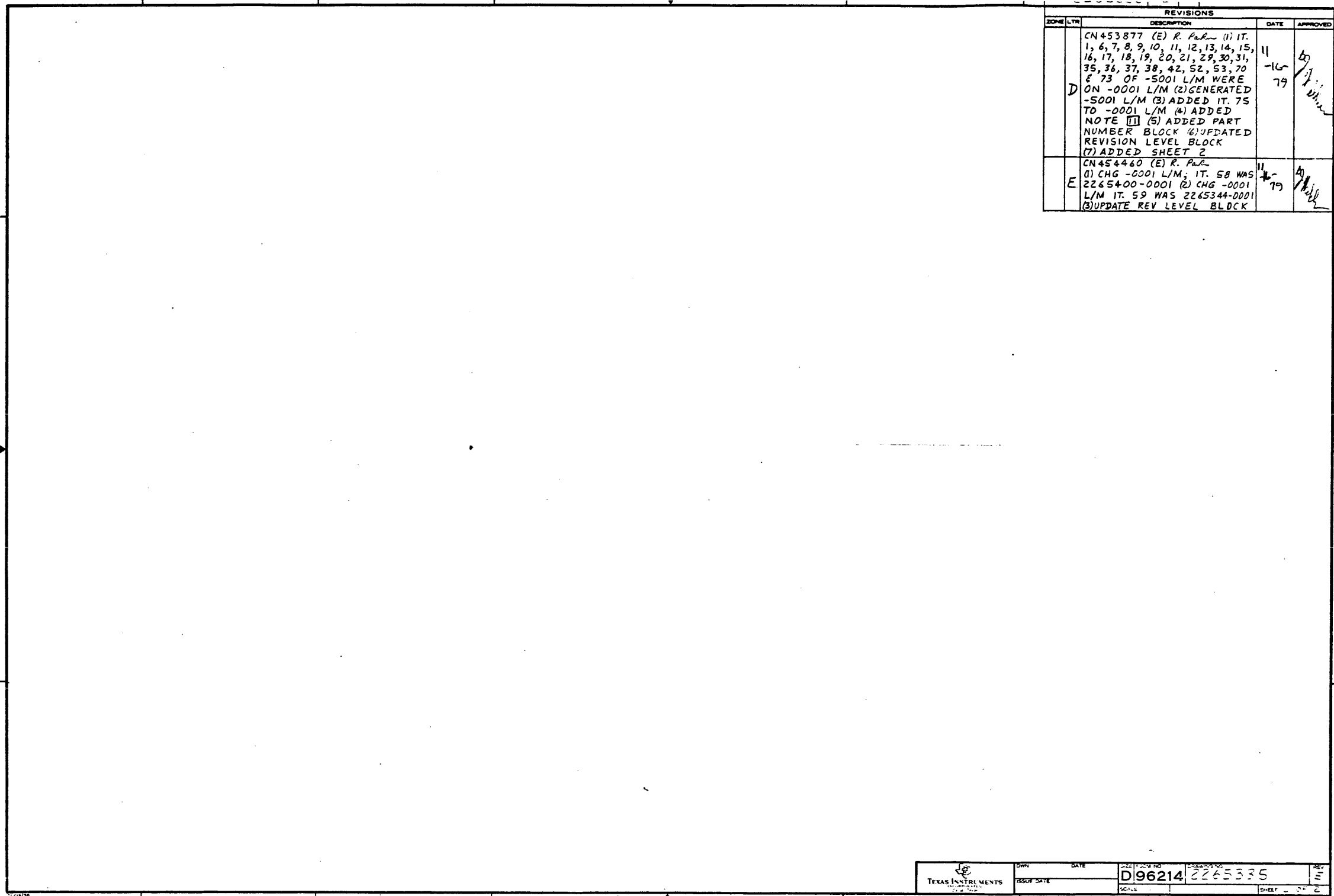
3	MARK	100-02	21	HGT .09, CLR BLACK
2	SLDR	127-01	00	
1	SLDR	124-02	00	

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

PROCESSOR - FOR CORRELATION TO GOVT HD SPEC DRAWINGS USE T. DRAWING 22646

-1	ITEM NO	PART OR IDENTIFYING NUMBER	NUMERATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

PARTS LIST		TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	
2265335-5001	7057	±12V POWER SUPPLY, 17 SLOT CHASSIS	D96214
2265335-0001			2265335



REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	D	CN453877 (E) R. P. L. (1) IT. 1, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 29, 30, 31, 35, 36, 37, 38, 42, 52, 53, 70 & 73 OF -5001 L/M WERE ON -0001 L/M (2) GENERATED -5001 L/M (3) ADDED IT. 75 TO -0001 L/M (4) ADDED NOTE (5) ADDED PART NUMBER BLOCK (6) UPDATED REVISION LEVEL BLOCK (7) ADDED SHEET 2	11-16-79
	E	CN454460 (E) R. P. L. (1) CHG -0001 L/M; IT. 58 WAS 2265400-0001 (2) CHG -0001 L/M IT. 59 WAS 2265344-0001 (3) UPDATE REV LEVEL BLOCK	11-16-79

 TEXAS INSTRUMENTS <small>DAVIDSON ROAD</small> <small>IRVING, TEXAS 75039</small>	DATE	ISSUE NO.	REVISION NO.	REF.
	ISSUE DATE	D96214	2265335	3
SCALE			SHEET	2

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of 5		PART NUMBER LM2265335-0001		REV E
QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	REV
0002	REF	EA	2265337-9901	LOGIC DIAG,+/- 12V P/S,17 SLOT CHASSIS				
0003	REF	EA	2265338-9901	TEST PROC,+/- 12V P/S,17 SLOT CHASSIS				
0004	REF	EA	2265339-9901	SPEC,+/- 12V P/S,17 SLOT CHASSIS				
0005	00002.000	EA	2265276-0001	CONN,RCPT 8D MT,250CTR,TYPE A,STD PRESS				
0005A				P1 P2				
0013	00002.000	EA	0972976-0105	RESISTOR 5.6 K OHMS .25W 5% FX COMPOSIT	039008-RCR07G562JS			
0013A				R43 R47				
0022	00001.000	EA	0972977-0235	RES,FX COMP 3.9 OHMS 1/2W 5%	81349R-CR20G3R9JS			
0022A				R37				
0023	00002.000	EA	0972977-0087	RES,FXD,CPSN,1/2W, 1.0K OHMS, 5%	039008-SEE DRAWING			
0023A				R21 R22				
0024	00002.000	EA	0539795-0006	RESISTOR,VARIABLE 500 OHM CERMET FILM	80U - 3069P-1-501			
0024A				R2 R13				
0025	00002.000	EA	0972942-0011	RES FIX 5.00 OHMS 5% 5 WATT WIREWOUND	OHM - 995-4549			
0025A				R36 R40				
0026	00001.000	EA	0972833-0057	RES,MW,FXD,2WATT, 20 OHMS	044655-SEE DRAWING			
0026A				R26				
0027	00001.000	EA	0972833-0048	RES,MW,FXD,2 WATT, 10 OHMS	044655-SEE DRAWING			
0027A				R42				
0028	00002.000	EA	0996344-0012	RES,FXD,12 W, 25 OHMS	091637-VLM-12			
DRAFTSMAN: R. P... DATE: 11/17/79 DESIGN ENGINEER: DATE: 11-16-79 TITLE: +/- 12V POWER SUPPLY,17 SLOT CHASSIS PROJECT NO: 7057 PART NUMBER: LM2265335-0001 REV: E								

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of 5		PART NUMBER LM2265335-0001		REV E
QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	REV
0028A				R52 R53				
0032	00001.000	EA	0972476-0001	CAP,.01UF,1% 50WVDC MINIMUM			SEE - TI DRAWING	
0032A				C3				
0033	00002.000	EA	0996311-0012	CAPACITOR,0.0100 UF 100 VDC 10%			012406-ZDIR103	
0033A				C9 C24				
0034	00001.000	EA	0996311-0015	CAPACITOR,1.0000 UF 100 VDC 10%				
0034A				C8				
0036	00001.000	EA	0972924-0010	CAP FIX TANT SOLID 22 MFD 10 & 15 VOLT	QPL -M39003/1-2271			
0036A				C12				
0039	00002.000	EA	0996311-0016	CAP,FXD,METALLIZED POLYESTER, 400 VDC	053332-SEE DRAWING			
0039A				C21 C22				
0040	00001.000	EA	0972928-0003	CAP, .0012 UF 5% 500VDC MICA DIELECT				
0040A				C23				
0041	00002.000	EA	0804115-0035	CAP,FXD,AL ELECTROLYTIC, 3,100 UF	000853-SEE DRAWING			
0041A				C25 C27				
0042	00001.000	EA	0972932-0001	DIODE 1N914B	SEE TI- DRAWING			
0042A				CR15				
0043	00008.000	EA	0972268-0002	DIODE 1N4934-1 AMP	NOT - 1N4934			
0043A				CR6 CR7 CR8 CR9 CR16 CR17				
0043B				CR18 CR19				
DRAFTSMAN: DATE: 11/17/79 DESIGN ENGINEER: DATE: 11/16/79 TITLE: +/- 12V POWER SUPPLY,17 SLOT CHASSIS PROJECT NO: 7057 PART NUMBER: LM2265335-0001 REV: E								

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 3 of 5		PART NUMBER LM2265335-0001		REV E
QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	REV
0044	00002.000	EA	0972268-0006	DIODE 1N4937 1 AMP	SEE - TI DRAWING			
0044A				CR10 CR11				
0045	00001.000	EA	2210146-0001	RECTIFIER,CENTER-TAPPED, POS OUTPUT	027777-R711X			
0045A				CR12				
0046	00001.000	EA	2210146-0002	RECTIFIER,CENTER-TAPPED, NEG OUTPUT	027777-R711XA			
0046A				CR13				
0047	00006.000	EA	0972057-0001	TRANSISTOR-A5T2222 NPN SILICON	TI- -A5T2222			
0047A				Q1 Q2 Q5 Q6 Q11 Q12				
0048	00004.000	EA	0539879-0001	TRANSISTOR 2N3725A	TI -2N3725A			
0048A				Q3 Q4 Q8 Q10				
0049	00002.000	EA	0972685-0001	TRANSISTOR, TIP561 NPN POWER				
0049A				Q7 Q9				
0050	00001.000	EA	0996666-0001	IC,TL3524 CONTROLLER SWITCHING & RGLTR	001295-TL3524			
0050A				U1				
0051	00001.000	EA	0972663-0001	NETWORK,LM339N				
0051A				U2				
0054	00001.000	EA	2265341-0001	TRANSFORMER,BASE DRIVE,17 SLOT CHASSIS				
0054A				T1				
0055	00001.000	EA	2265343-0001	CURRENT TRANSFORMER,17 SLOT CHASSIS				
0055A				T2				
DRAFTSMAN: DATE: 11/17/79 DESIGN ENGINEER: DATE: 11/16/79 TITLE: +/- 12V POWER SUPPLY,17 SLOT CHASSIS PROJECT NO: 7057 PART NUMBER: LM2265335-0001 REV: E								

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 4 of 5		PART NUMBER LM2265335-0001		REV E
QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	REV
0056	00001.000	EA	2265351-0001	TRANSFORMER,+/- 12V,17 SLOT CHASSIS				
0056A				T3				
0057	00001.000	EA	2265350-0001	TRANSFORMER,GAPPED,17 SLOT CHASSIS				
0057A				T4				
0058	00001.000	EA	2265424-0001	HEATSINK,EXTRUDED,DIODE TOR-12,17 SLOT				
0059	00002.000	EA	2265425-0001	HEATSINK,EXTRUDED,TRANSISTOR,17 SLOT				
0060	00001.000	EA	2265346-0001	INSULATOR,HEATSINK				
0061	00001.000	EA	2265401-0001	INSULATOR,DIODE,+/- 12V				
0062	00001.000	EA	0972217-2000	FUSE,2AMP,GLASS TUBE PIGTAIL	071400-GJV			
0062A				F1				
0063	00004.000	EA	0996521-0003	INSULATOR GRAY .009 THERMALLY COND	055285-7403-09FR-04			
0064	00004.000	EA	0184262-0001	PAD,MOUNTING,TO-5, 4 LEAD,RED	THR - 7717-5			
0065	00008.000	EA	0418262-0019	SCREW 6-32 X .625 CAP,HEX SOCKET,CRES	QPL - MS16995-19			
0066	00008.000	EA	0411115-0064	NUT,PLAIN 6-32 UNC-2B HEX CRES	QPL - MS35649-264			
0067	00016.000	EA	0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71			
0069	00001.000	EA	0996287-0001	HEADER,PIN,SHORT SOLDER TAIL,2 CIRCUITS	000779-350786-1			
0069A				J1				
0071	00008.000	EA	2265352-0001	SLEEVE,INSULATING				
0072	00001.000	EA	0972942-0042	RES FIXED 1 K OHMS +5% 5 WATT	DAL - CH OR RS			
0072A				R41				
DRAFTSMAN: DATE: 11/17/79 DESIGN ENGINEER: DATE: 11/16/79 TITLE: +/- 12V POWER SUPPLY,17 SLOT CHASSIS PROJECT NO: 7057 PART NUMBER: LM2265335-0001 REV: E								

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 5 of 5		PART NUMBER LM2265335-0001		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0074	00001.000	EA		0411104-0136	WASHER, LOCK-SPRING, HELICAL, #6	QPL - MS35338-136						
0075	00001.000	EA		2265335-5001	AUTO INSERTED PARTS LIST FOR 2265335-1							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	+/- 12V POWER SUPPLY, 17 SLOT CHASSIS				
APP. MGR.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2265335-0001				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 1 of 3		PART NUMBER LM2265335-5001		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265336-0001	PWB, +/- 12 MAIN, 17 SLOT CHASSIS, P/S							
0006	00001.000	EA		0972976-0039	RES, FIX 10 OHMS 5% 0.25W CARBON COMP.	81349P-CR07G2100JS						
0006A					R31							
0007	00004.000	EA		0972976-0049	RES FIXED 27 OHMS 1/4 W 5%							
0007A					R34 R38 R46 R51							
0008	00002.000	EA		0972976-0053	RESISTOR, 39 OHMS 5% 1/4W FX CMPSN INSUL	-RCR07G390JS						
0008A					R45 R50							
0009	00003.000	EA		0972976-0057	RES FIXED 56 OHMS 1/4 W 5%							
0009A					R35 R39 R44							
0010	00004.000	EA		0972976-0081	RES FIXED 560 OHMS 1/4 W 5%							
0010A					R24 R25 R27 R49							
0011	00003.000	EA		0972976-0087	RES, FIX, 1.0K OHM, 5%, 0.25 W, CARBON COMP.							
0011A					R19 R30 R32							
0012	00002.000	EA		0972976-0097	RES FIXED 2.7 K OHMS 1/4W 5%	081349-RCR07G272JS						
0012A					R23 R28							
0013	00003.000	EA		0972976-0105	RESISTOR 5.6 K OHMS .25W 5% FX COMPOSIT	039008-RCR07G562JS						
0013A					R9 R29 R33							
0014	00004.000	EA		0972976-0111	RES, 10K OHMS .25W 5% FIX, COMP, INSULATED	MIL -RCR07G103JS						
0014A					R10 R11 R12 R16							
0015	00001.000	EA		0972976-0119	RES FIXED 22 K OHMS 1/4 W 5%							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERTED PARTS LIST FOR 2265335-1				
APP. MGR.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2265335-5001				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 2 of 3		PART NUMBER LM2265335-5001		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0015A					R7							
0016	00002.000	EA		0972976-0135	RES FIXED 100 K OHMS 1/4 W 5%							
0016A					R8 R15							
0017	00001.000	EA		0972976-0159	RESISTOR, FIXED, 1.0MEG	RCR07G-105JS						
0017A					R17							
0018	00004.000	EA		0539370-0453	RES FIX FILM 5.11K OHM 1% .25 WATT	COR - NA55						
0018A					R1 R3 R4 R18							
0019	00001.000	EA		0539370-0356	RES FIX FILM 499 OHM 1% .25 WATT	COR - NA55						
0019A					R14							
0020	00001.000	EA		0539370-0509	RES FIX FILM 19.6K OHM 1% .25 WATT	COR - NA55						
0020A					R5							
0021	00001.000	EA		0539370-0577	RES FIX FILM 100 K OHM 1% .25 WATT	COR - NA55						
0021A					R20							
0029	00005.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0029A					C1 C5 C7 C15 C18							
0030	00002.000	EA		0972757-0001	CAP, FIXED CERAMIC 100 PF 10% 50V	UC -C51C101K						
0030A					C6 C11							
0031	00001.000	EA		0972757-0037	CAP FIX CER 0.1MF 10% 50V							
0031A					C2							
0035	00001.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10% 35 VOLT SPR	-1500105X9035A						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERTED PARTS LIST FOR 2265335-1				
APP. MGR.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2265335-5001				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/05/79		LIST OF MATERIAL		PAGE 3 of 3		PART NUMBER LM2265335-5001		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0035A					C10							
0036	00002.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10% 15 VOLT	QPL -M39003/1-2271						
0036A					C19 C20							
0037	00002.000	EA		0972757-0009	CAP FIX CER 470PF 10% 50V							
0037A					C13 C14							
0038	00003.000	EA		0972757-0013	CAP., FIXED, AXIAL LEAD, 1000 PF, 10%, 50V							
0038A					C16 C17 C26							
0042	00006.000	EA		0972932-0001	DIODE 1N914B	SEE TI- DRAWING						
0042A					CR1 CR2 CR3 CR4 CR5 CR14							
0052	00001.000	EA		0972934-0010	DIODE, 1N755A 7.5 V 5% SIL VOLT REG	QPL - 1N755A						
0052A					VR2							
0053	00002.000	EA		0972934-0014	DIODE, 1N759A 12.0 V 5% SIL VOLT REG	QPL - 1N759A						
0053A					VR1 VR3							
0070	00001.000	EA		0539370-0423	RES FIX FILM 2.49K OHM 1% .25 WATT	COR - NA55						
0070A					R6							
0073	00001.000	EA		0972976-0129	RES, 56K 5%							
0073A					R48							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERTED PARTS LIST FOR 2265335-1				
APP. MGR.		DATE	APP. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2265335-5001				

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. RESISTANCE VALUES ARE IN OHMS
 2. RESISTORS ARE 1/4 WATT, 5%
 3. CAPACITANCE VALUES ARE IN MICROFARADS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN454696 (E) R. F. ...	8-30-79	<i>[Signature]</i>
B	CN453325 (C) R. F. ...	10-16-79	<i>[Signature]</i>

HIGHEST REFERENCE DESIGNATOR USED			
C27	CR19	E8	F1
Q12	R53	T4	TP4
U2	VR3		

UNUSED REFERENCE DESIGNATORS			
C4	E3	E4	E5
E6			

REV STATUS	REV	B	X
Q. SHEETS	SH.	1	2

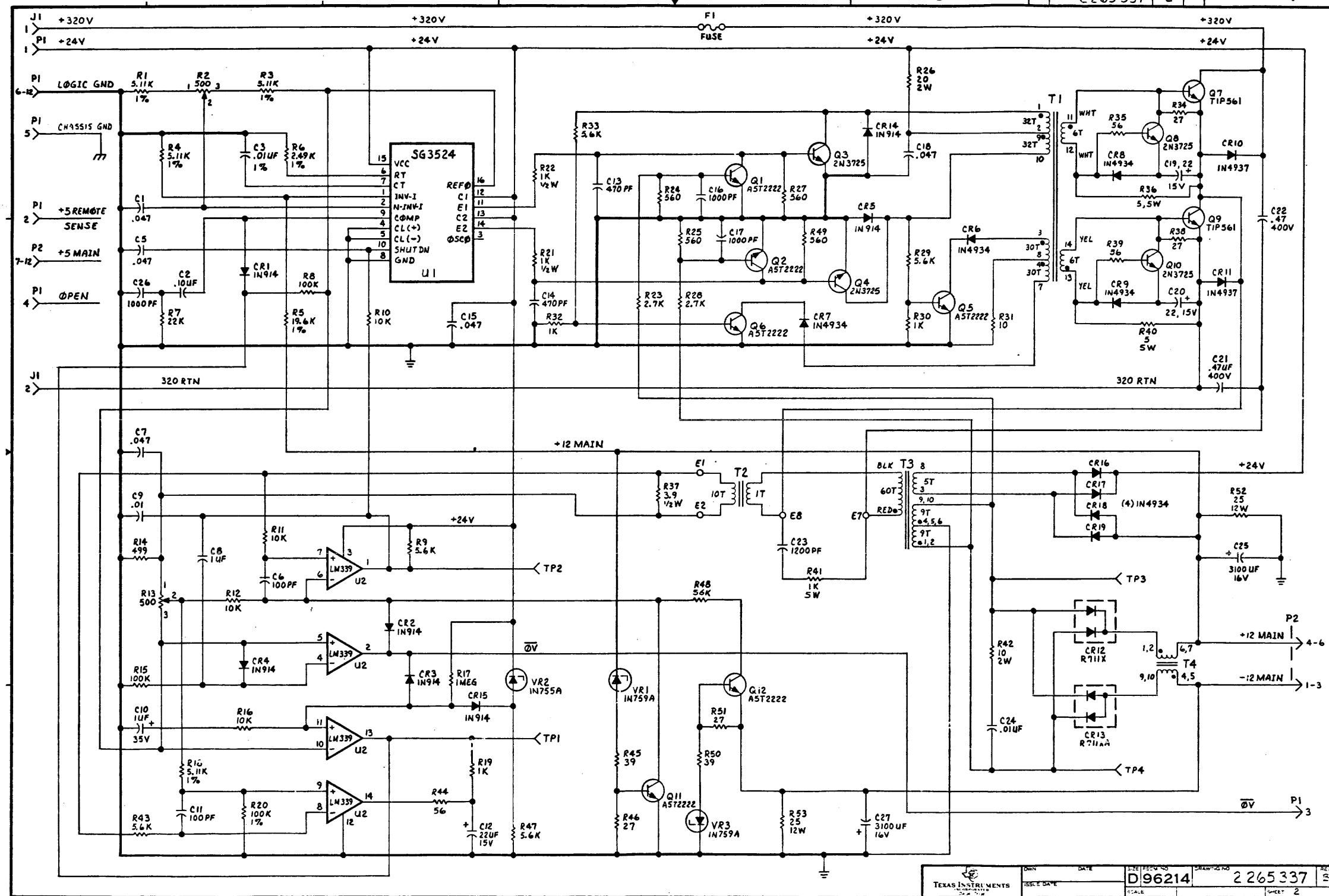
SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
			UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES ARE IN INCHES 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MATCHED DIAMETERS .010 DIA • DIMENSIONAL UNITS APPLY BEFORE PROCESSES • PARENTHESES INFO FOR REF ONLY HOLE TOLERANCE .013 THRU .004 .125 THRU .005 .751 THRU .008 .125 .001 .250 .001 .500 .001 .501 .08 .751 .013 1.001 .012 THRU .001 THRU .001 2.000 .001		
2265335	7057		ELECTRONIC SCHEMATIC DIAGRAM, 12V P/S, 17 SLOT CHASSIS	D 96214	2265337



ELECTRONIC SCHEMATIC DIAGRAM,
 12V P/S, 17 SLOT
 CHASSIS

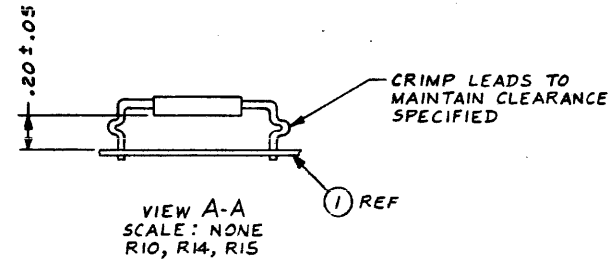
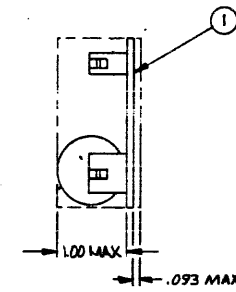
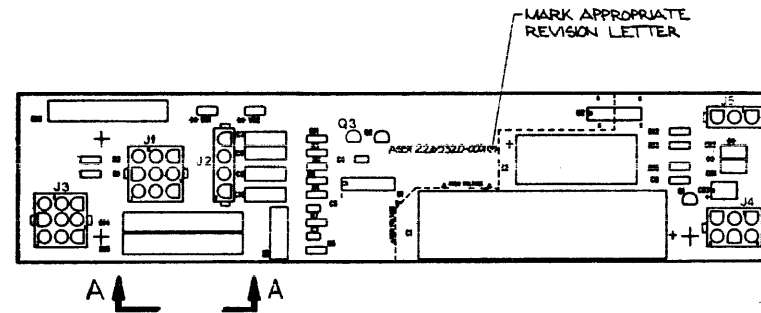
D 96214 2265337



TEXAS INSTRUMENTS	DATE	ISSUE DATE	2265337	2
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NOTES: UNLESS OTHERWISE SPECIFIED:
 1 ITEM 32 IN THE -0001 L/M CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 L/M

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN450860 (D) R. P. W. - (1) CN LM, CHG IT. 17; WAS 996344-0047 AND CHG IT. 18; WAS 996344-0062 (2) ADDED VIEW A-A (3) UPDATED REV LEVEL BLOCK	8-10-79	[Signature]
B	CN459023 (E) R. P. W. - (1) ON -0001 L/M; DELETE ITEMS 1, 5 THRU 12, 14, 24 & 25 (NOW -5001 L/M) AND ADD IT. 32 (2) GENERATE -5001 L/M (3) ADD NOTE 1 (4) ADD P/N BLOCK (5) UPDATE REV LEVEL BLOCK	2-19-80	[Signature]



2265320-5001	AUTO-INSERTED PARTS LIST FOR 2265320-0001
2265320-0001	CONVERTER BOARD, 17 SLOT CHASSIS
PART NUMBER	DESCRIPTION

PARTS LIST					TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES	
UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES ANGLES ±1° • 3 PLACE DECIMALS ± .010 • 2 PLACE DECIMALS ± .02 • INTERPRET DRAWING PER MIL-D-200 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS, Q10 P1M • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL "NO FOR REF ONLY" • HOLE TOLERANCE .013 - .004 .020 - .005 .031 - .006 THRU - .001 THRU - .001 THRU - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001 .061 - .001						
26	2657	2657	CONVERTER BOARD, 17 SLOT CHASSIS		DATE: 2-13-79 D96214 2265320 SHEET 1/1	

3	MARK	100-02	21	HGT .09, CLR. BLK.
2	SLDR	127-01	00	
1	SLDR	124-02	00	

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
1	PROCESS			CLASSIFICATION	

TEST PROC	2265321-9901	* * *
TEST PROC	2265322-9901	* A B
PARTS	2265321-0001	A A B
PARTS	2265322-0001	A B

PROCESSES - FOR CORRELATION TO GOVT. AND SPECIFICATIONS SEE DRAWING 375167

TEXAS INSTRUMENTS INCORPORATED		DATE 02/04/80		LIST OF MATERIAL		PAGE 1 of 2		PART NUMBER LM 2265320-0001		REV 8			
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0002	REF	EA		2265322-9901	LOGIC DIAGRAM, CONVERTER BD, 17 SLOT CHAS								
0003	REF	EA		2265323-9901	TEST PROC, CONVERTER BD, 17 SLOT CHASSIS								
0004	REF	EA		2265324-9901	SPEC, CONVERTER BD, 17 SLOT CHASSIS								
0013	00001.000	EA		0539795-0006	RESISTOR, VARIABLE 500 OHM CERMET FILM	80U - 3069P-1-501							
0013A					R6								
0015	00001.000	EA		0507315-0051	CAP, FXD, ELECTROLYTIC, AL, 40V, 300 UT UF	056289-SEE DRAWING							
0015A					C2								
0016	00001.000	EA		0507315-0040	CAP, FXD, ELECTROLYTIC, AL, 40V, 3200 UF	056289-SEE DRAWING							
0016A					C1								
0017	00002.000	EA		0972687-0157	RES, FXD, PWR W, 5%, 5K OHMS, 10 WATTS	-SEE TI DWG							
0017A					R14 R15								
0018	00001.000	EA		0972687-0178	RES, FXD, PWR W, 5%, 18K OHMS, 10 WATTS	-SEE TI DWG							
0018A					R10								
0019	00002.000	EA		0972164-0001	DIODE, MRS01								
0019A					CR1 CR2								
0020	00001.000	EA		0972806-0001	RECTIFIER, BRIDGE, 1A, 400V								
0020A					CR3								
0021	00001.000	EA		0972642-0001	NETWORK, SN72723N								
0021A					U1								
0022	00001.000	EA		0996594-0001	ISOLATOR, OPTICALLY COUPLED	024972-CMY 21							
DRAFTSMAN		DATE		CDD DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
R. Par		2/6/80		D. J. Johnson		2-19-80						CONVERTER BOARD, 17 SLOT CHASSIS	
APP'D. MFG.		DATE		APP'D. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
								7057				LM 2265320-0001	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/04/80		LIST OF MATERIAL		PAGE 2 of 2		PART NUMBER LM 2265320-0001		REV 8			
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0022A					U2								
0023	00003.000	EA		0972057-0001	TRANSISTOR-AST2222 NPN SILICON	TI- -AST2222							
0023A					Q1 Q2 Q3								
0026	00001.000	EA		0996287-0002	HEADER, PIN, SHORT SOLDER TAIL, 3 CIRCUITS	000779-350789-1							
0026A					J5								
0027	00001.000	EA		0996287-0003	HEADER, PIN, SHORT SOLDER TAIL, 4 CIRCUITS	000779-350792-1							
0027A					J2								
0028	00001.000	EA		0996287-0005	HEADER, PIN, SHORT SOLDER TAIL, 6 CKTS	000779-350711-1							
0028A					J4								
0029	00001.000	EA		0996287-0006	HEADER, PIN 9 CIRCUITS SHORT SOLDER TAIL	AMP - 350712-1							
0029A					J1								
0030	00001.000	EA		0996166-0006	HEADER, SOCKET, SHORT SOLDER T 9 CIRCUITS								
0030A					J3								
0031	00004.000	EA		0996311-0004	CAP, FXD, METALLIZED POLYESTER, 600 VDC	012406-206R562							
0031A					C7 C8 C9 C10								
0032	00001.000	EA		2265320-5001	AUTO-INSERTED PARTS LIST FOR 2265320-1								
DRAFTSMAN		DATE		CDD DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
												CONVERTER BOARD, 17 SLOT CHASSIS	
APP'D. MFG.		DATE		APP'D. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												LM 2265320-0001	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/04/80		LIST OF MATERIAL		PAGE 1 of 2		PART NUMBER LM 2265320-5001		REV 8			
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0001	00001.000	EA		2265321-0001	PWB, CONVERTER BOARD, 17 SLOT CHASSIS								
0005	00001.000	EA		0972976-0071	RES, FIX, 220 OHM, 5%, 0.25 W, CARBON COMP.								
0005A					R8								
0006	00001.000	EA		0972976-0087	RES, FIX, 1.0K OHM, 5%, 0.25 W, CARBON COMP.								
0006A					R11								
0007	00004.000	EA		0972976-0111	RES, 10K OHMS .25W 5% FIX, COMP, INSULATED	MIL -RCR07G103J5							
0007A					R9 R12 R13 R16								
0008	00001.000	EA		0539370-0402	RES FIX FILM 1.50K OHM 1% .25 WATT	COR - NA55							
0008A					R5								
0009	00001.000	EA		0539370-0414	RES FIX FILM 2.00K OHM 1% .25 WATT	COR - NA55							
0009A					R7								
0010	00001.000	EA		0539370-0481	RES FIX FILM 10.0K OHM 1% .25 WATT	COR -NA55D-100PPH/C							
0010A					R3								
0011	00001.000	EA		0539370-0577	RES FIX FILM 100 K OHM 1% .25 WATT	COR - NA55							
0011A					R4								
0012	00002.000	EA		0539370-0615	RES FIX FILM 249K OHMS, 1%, .25 WATT	COR - NA55							
0012A					R1 R2								
0014	00004.000	EA		0972763-0021	CAP, .FIXED, AXIAL LEAD, .047 UF, +80%, -20%								
0014A					C3 C4 C5 C6								
0024	00001.000	EA		0972934-0007	DIODE, 1N752A 5.6 V 5% SIL VOLT REG	QPL - 1N752A							
DRAFTSMAN		DATE		CDD DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
R. Par		2/6/80		D. J. Johnson		2-19-80						AUTO-INSERTED PARTS LIST FOR 2265320-1	
APP'D. MFG.		DATE		APP'D. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												LM 2265320-5001	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/04/80		LIST OF MATERIAL		PAGE 2 of 2		PART NUMBER LM 2265320-5001		REV 8			
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0024A					VR1								
0025	00001.000	EA		0572934-0014	DIODE, 1N759A 12.0 V 5% SIL VOLT REG	QPL - 1N759A							
0025A					VR2								
DRAFTSMAN		DATE		CDD DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
												AUTO-INSERTED PARTS LIST FOR 2265320-1	
APP'D. MFG.		DATE		APP'D. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												LM 2265320-5001	

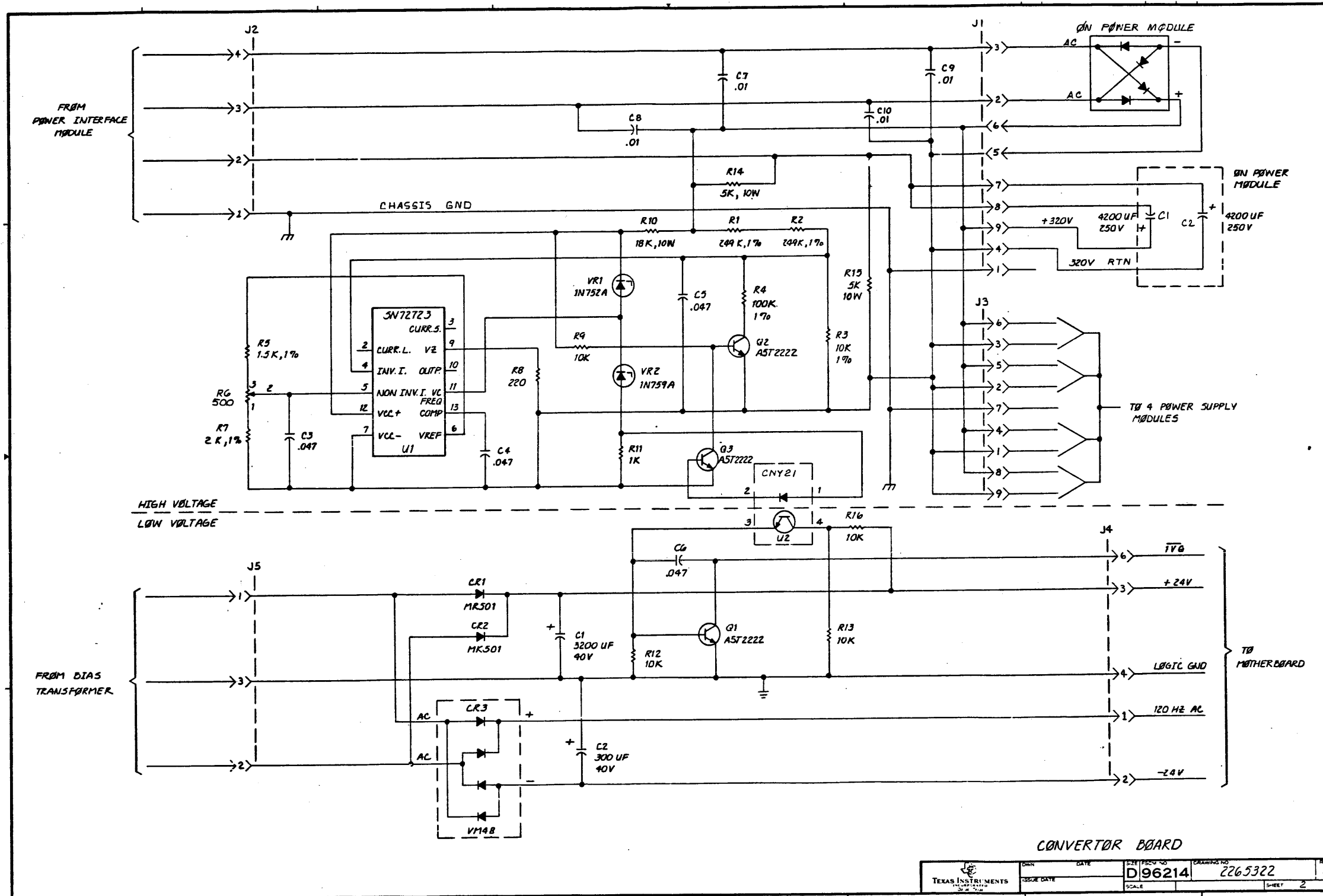
NOTES UNLESS OTHERWISE SPECIFIED:
 1. CAPACITANCE VALUES ARE IN MICROFARADS
 2. RESISTANCE VALUES ARE IN OHMS
 3. RESISTORS ARE 1/4WATT, 5%

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN 454698 (E) R. P. A.	8-30-79	Bybach

HIGHEST REFERENCE DESIGNATOR USED			
C10	CR3	Q3	R16
U2	VR2		

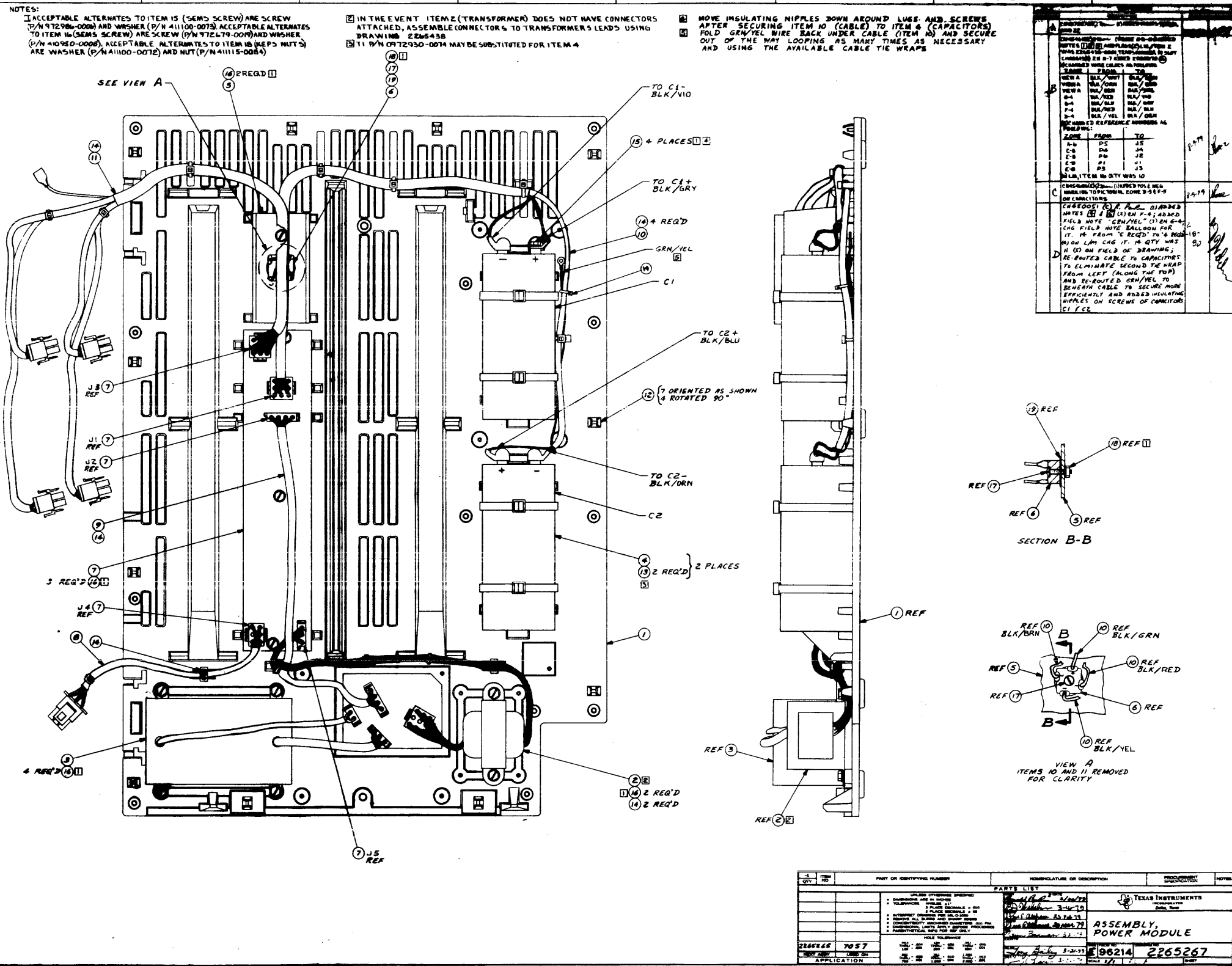
UNUSED REFERENCE DESIGNATORS			

REV STATUS	REV	A	A	QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
OF SHEETS	SH	1	2						
						PARTS LIST UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES ANGLES ±1° 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 • INTERPRET DRAWING PER MIL-D-100C • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY WASHED DIAMETERS C10 FM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHEICAL INFO FOR REF ONLY HOLE TOLERANCE 19H THRU .004 THRU .005 THRU .006 .125 .001 250 .001 500 .001 501 .008 THRU .110 THRU .012 .125 .001 1.200 .001			
224532C 7057						TEXAS INSTRUMENTS INCORPORATED Dallas, Texas LOGIC DIAGRAM, CONVERTOR BOARD D96214 2245322			
NEXT ASSY USED ON APPLICATION						DATE 3-15-77 DRAWING NO 2245322			



CONVERTOR BOARD

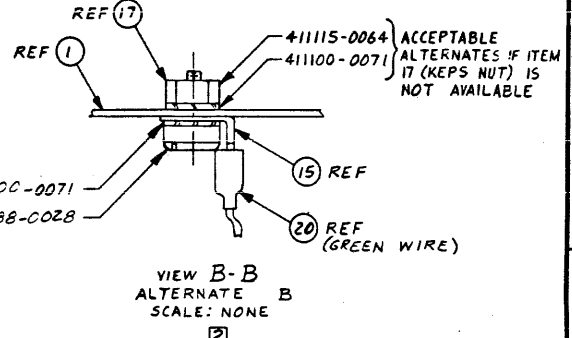
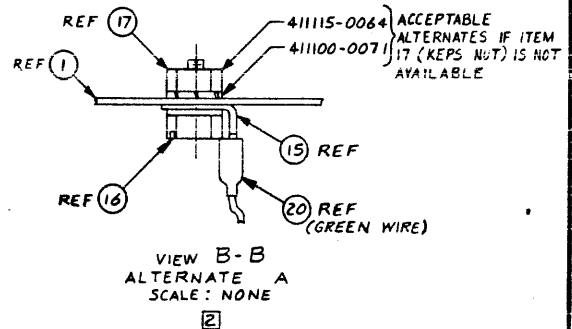
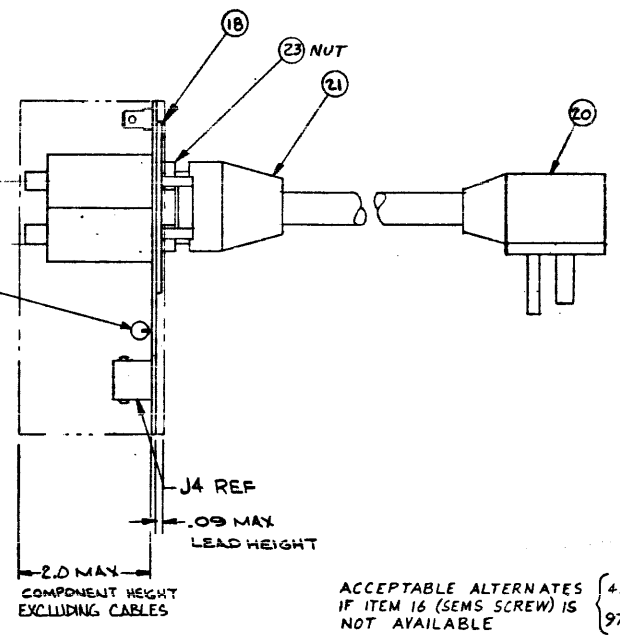
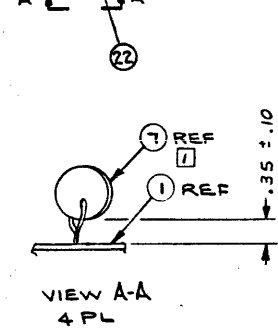
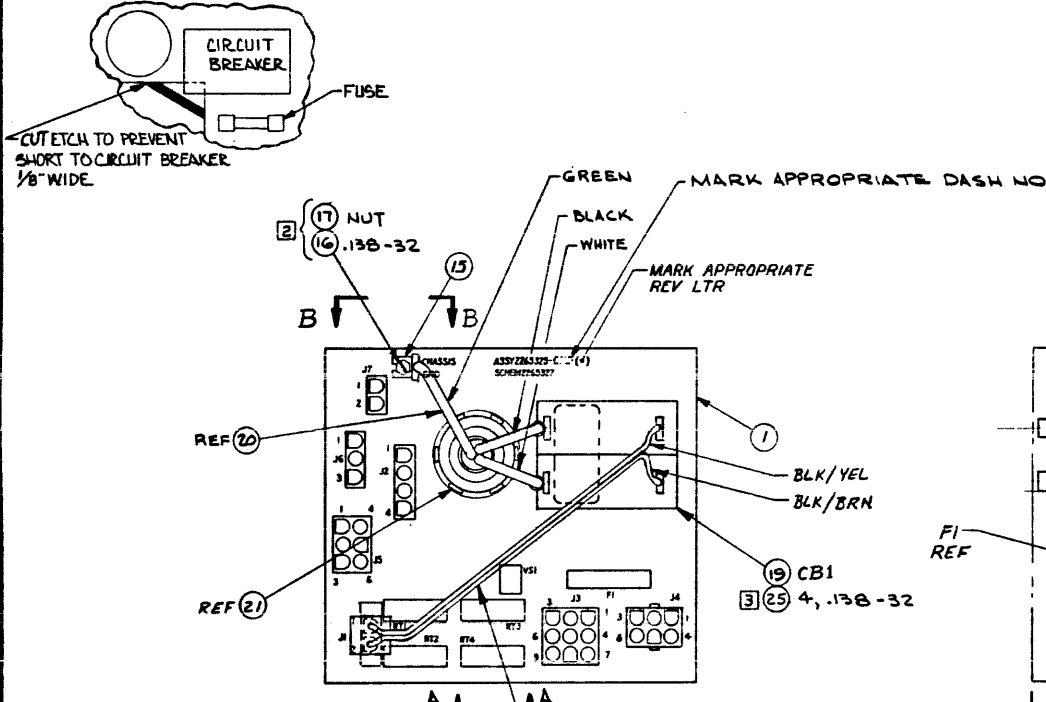
TEXAS INSTRUMENTS	DATE	DRAWING NO.	ISSUE DATE	SCALE	SHEET
		D 96214	2265322		2



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/11/80		PAGE 1 of 2		PART NUMBER LM2265267-0001		REV D		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265279-0001	COVER, REAR							
0002	00001.000	EA		2265279-0001	TRANSFORMER, AUX, 17 SLOT CHASSIS							
0003	00001.000	FA		2265437-0001	LINE FILTER, EMI							
0004	00002.000	EA		0972930-0069	CAP., 4200 MF, 250 V							
0004A					CL, C2							
0005	00001.000	EA		2265347-0001	HEATSINK, RECTIFIER, BRIDGE							
0006	00001.000	EA		2210328-0001	RECTIFIER, FWD	027777-VK647						
0007	00001.000	EA		2265320-0001	CONVERTER BOARD, 17 SLOT CHASSIS							
0008	00001.000	EA		2265406-0001	CABLE, SECONDARY VOLTAGE							
0009	00001.000	FA		2265405-0001	CABLE, POWER, CONVERTOR BOARD							
0010	00001.000	FA		2265403-0001	CABLE, CONVERTOR BOARD							
0011	00001.000	FA		2265404-0001	CABLE, CONVERTOR BOARD TO POWER SUP. MOD							
0012	00011.000	FA		2210405-0005	LATCH, 1/4-TURN, BLACK	083014-HRN 6-3-1						
0013	00004.000	FA		0972632-0014	STRAP, TIE DOWN, CABLE	PHD - SST4S						
0014	00010.000	FA		0972632-0002	STRAP, TIEDOWN, 5 3/4 LG BUNDLE DIA-1 1/4	006383-SST1-SS						
0015	00004.000	FA		0996955-0033	SEMS MACH SCREW, SLTD HXHD, 1/4L, 32UNF, 10							
0016	00011.000	EA		0996740-0014	SEMS SCREW, THD FORMING 1/2L, SLTD HXHD							
0017	00001.000	FA		0972948-0047	SCREW 8-32 X .750 PAN HEAD CPES							
0018	00001.000	FA		2210006-0003	ASSY, HFK NUT, LOCKWASHERS, 8-32	092558-SEE DRAWING						
0019	00001.000	FA		0802373-0033	INSULATOR, PLATE, 1674 W/PSA, 1.000W X.255	018565-SEE DWG						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
R. P. ...		3/14/80	B. J. ...	2-18-80	ASSEMBLY, POWER MODULE							
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
					7057		PART NUMBER LM2265267-0001					
							REV D					

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/11/80		PAGE 2 of 2		PART NUMBER LM2265267-0001		REV D		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0020	REF	FA		2265441-9901	SCHEMATIC PMR MODULE, 17 SLOT CHASSIS							
0021	REF	FA		2265447-9901	TEST PROCEDURE PMR MODULE, 17 SLOT							
0022	REF	FA		2265448-9901	SPECIFICATION, PMR MODULE, 17 SLOT							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
					ASSEMBLY, POWER MODULE							
APPD MFG		DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							PART NUMBER LM2265267-0001					
							REV D					

- NOTES: UNLESS OTHERWISE SPECIFIED:
- 1 RT 1 THRU RT4 MAY BE ROTATED TO FACILITATE MOUNTING AS LONG AS THE BODIES ARE SPACED A MINIMUM OF .25 INCHES APART
 - 2 ACCEPTABLE ALTERNATES TO ITEM 16 (SEMS SCREW) ARE SCREW (P/N 972988-002B) AND WASHER (P/N 41100-0071). ACCEPTABLE ALTERNATES TO ITEM 17 (KEPS NUT) ARE WASHER (P/N 41100-0071) AND NUT (P/N 41115-0064)
 - 3 ACCEPTABLE ALTERNATES TO ITEM 25 (SEMS SCREW) ARE SCREW (P/N 972988-0026) AND WASHER (P/N 41100-0071)
 - 4. REWORK ALL BOARDS THROUGH REV.C AS FOLLOWS:



REVISIONS					REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED	
D		CN453329 (D) A.P. - 01 NOTE (1) WAS "SLEEVE" (ITEM 24) MUST COVER LEAD AROUND BEND FLUSH TO BODY OF THERMISTOR (ITEM 7) (2) ON L/M; DELETE IT. 24 WAS 972434-0008 (3) RN A-7. VIEW A-A; DIM. WAS .151" Ø. DELETED IT. 24 FROM VIEW, AND INDICATED TWIST OF IT. 7 (4) UPDATED REV LEVEL BLOCK	12-7-79	[Signature]	A	CN 454607 (C) R.P.E. - (1) CN-0001 L/M; IT. 25 WAS 2265398-0001 (2) MOUNTING HWD FOR IT. 19 WAS IT. 16 (3) DELETED -0002 L/M AND DASH NO. BLOCK (4) ADDED FLAG NOTES 2 & 3 AND DESIGNATIONS OF FLAG NOTES 2 & 3 TO ITEMS 16, 17 & 25 BALLOONS ON FIELD OF DRAWING (5) NEXT ASSY WAS 2265428 (6) UPDATED REVISION LEVEL BLOCK	6-25-79	[Signature]	
B		CN 450663 (B) B.B.W. (1) ADDED NOTE 4 TO FD (2) ON FD ZN BS DIM 2.0 MAX WAS 1.9 MAX ALSO ADDED EXCLUDING CABLES TO DIM. (3) UPDATED REV LEVEL BLOCK	7-22-79	[Signature]	B	CN 454403 (C) R.P.E. - (1) ZN C-7. ADDED DESIGNATION FOR VIEW B-B AND CORRECTED PICTORIAL OF IT. 16 TO SHOW HEAD OF SCREW (2) BOLS A-1&2, B-1&2 AND C-1&2. ADDED VIEW B-B ALTERNATE A & B (3) UPDATED REVISION LEVEL BLOCK	8-30-79	[Signature]	

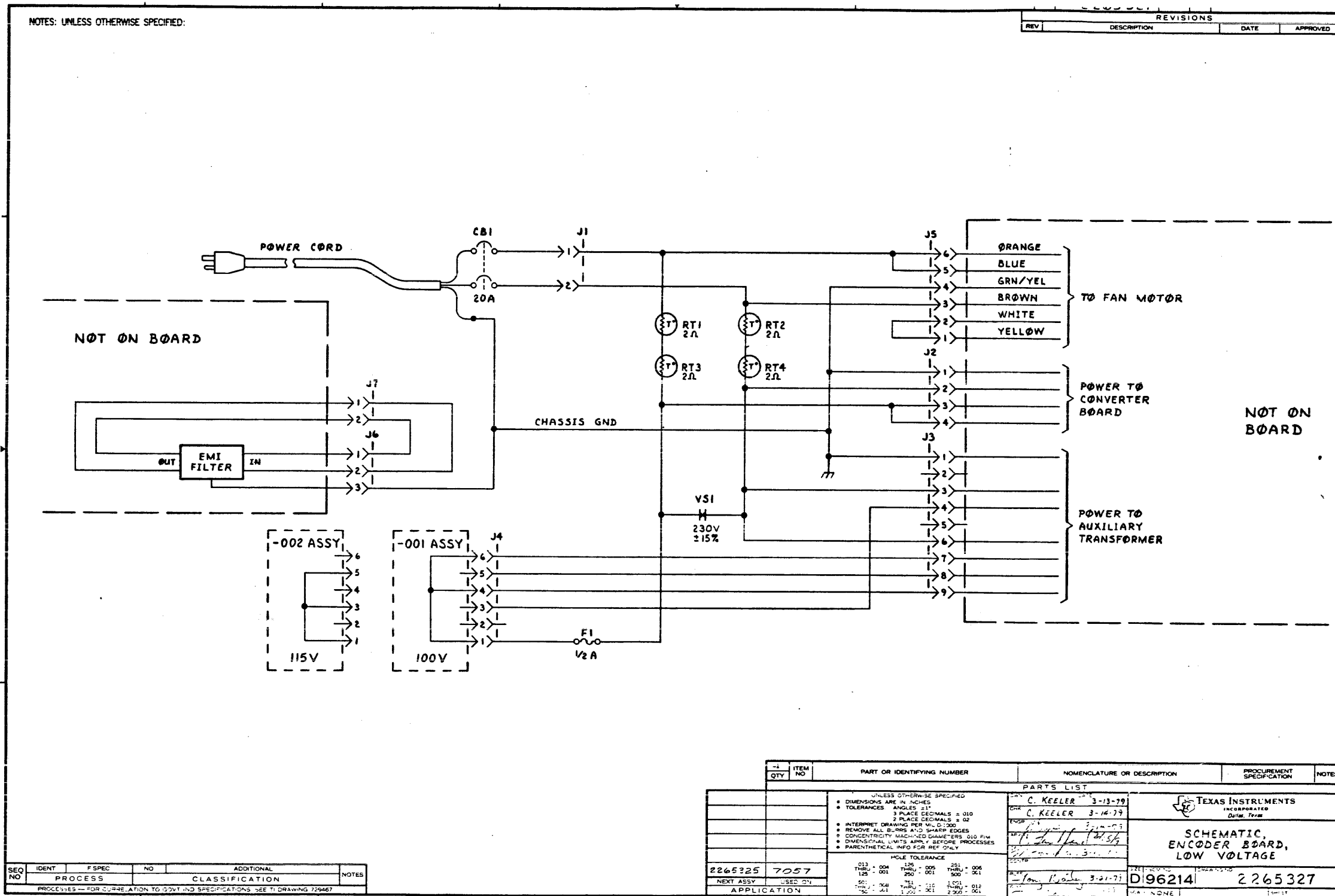
TEST PROC	2265328-9901	*	*	*	*	
LOGIC	2265327-9901	*	*	*	*	
PWB	2265326-0001	A	C	D	E	
ASSEMBLY	2265325-0001	*	A	B	C	D

3	MARK	100-02	21	HGT .09, CLR BLACK
2	SLDR	127-01	00	
1	SLDR	124-02	00	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			ENCODER CARD, LOW VOLTAGE, 17 SLOT CHASSIS		
			D96214		2265325

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of 2		PART NUMBER LM 2265325-0001		REV D		
DATE 12/03/79										
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
J001	00001.000	EA		2265326-0001	PN8, ENCODER CARD, LOW VOLTAGE, 17 SLOT					
J002	REF	EA		2265327-9901	LOGIC DIAG, ENCODER CARD, LOW VOLTAGE					
J003	REF	EA		2265328-9901	TEST PROC, ENCODER CARD, LOW VOLTAGE					
J004	REF	EA		2265329-9901	SPEC, ENCODER CARD, LOW VOLTAGE, 17 SLOT					
J005	00001.000	EA		0972217-0500	FUSE, GLASS TUBE PIGTAIL, 1/2 AMP	-SEE DRAWING				
J005A					F1					
J006	00001.000	EA		0974805-0007	SURGE VOLTAGE PROTECTOR					
J006A					VS1					
J007	00004.000	EA		2210230-0001	THERMISTOR, DISK	015454-50-21				
J007A					RT1 RT2 RT3 RT4					
J008	00001.000	EA		0996287-0001	HEADER, PIN, SHORT SOLDER TAIL, 2 CIRCUITS	000779-350786-1				
J008A					J1					
J009	00001.000	EA		0996166-0003	HEADER, SOCKET, SHORT SOLDER TAIL, 4 CKTS	000779-350826-1				
J009A					J2					
J010	00001.000	EA		0996166-0006	HEADER, SOCKET, SHORT SOLDER T 9 CIRCUITS					
J010A					J3					
J011	00001.000	EA		0996287-0005	HEADER, PIN, SHORT SOLDER TAIL, 6 CKTS	000779-350711-1				
J011A					J4					
J012	00001.000	EA		0996166-0005	HEADER, SOCKET, SHORT SOLDER T 6 CIRCUITS	AMP - 350827-1				
J012A					J5					
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ENCODER CARD, LO VOLT, 17 SLOT CH. (100V)		
APPROV. ENG.		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7057		
							PROJECT NO.	LM 2265325-0001		
							PART NUMBER	LM 2265325-0001		
							REV	D		

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of 2		PART NUMBER LM 2265325-0001		REV D		
DATE 12/03/79										
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0013	00001.000	EA		0996287-0002	HEADER, PIN, SHORT SOLDER TAIL, 3 CIRCUITS	000779-350789-1				
0013A					J6					
0014	00001.000	EA		0996166-0001	HEADER, SOCKET, SHORT SOLDER T 2 CIRCUITS	AMP - 350824-1				
0014A					J7					
0015	00001.000	EA		0996456-0001	TAB, QUICK CONNECT	000779-621660001				
0016	00001.000	EA		0996955-0014	SEMS MACH SCREW, SLTD HXHD, 3/8L, 32UNC, 6	092550-SEE DRAWING				
0017	00001.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS					
0018	00001.000	EA		2265415-0001	PLATE MTG, POWER, LOW VOLT, 17 SLOT					
0019	00001.000	EA		0972046-0007	CIRCUIT BREAKER, 20 AMP, 123 CURVE	074193-JA2-A3-A-20-2				
0019A					CB1					
0020	00001.000	EA		2265431-0001	CORD, LINE, LOW VOLTAGE					
0021	00001.000	EA		2210408-0002	BUSHING, CABLE GRIP, .500 HUB	099730-2673				
0022	00001.000	EA		2265434-0001	CABLE ASSY, SWITCH, ENCODER CARD					
0023	00001.000	EA		2210406-0001	LOCKNUT, HEX, NPT HUB, 1/2 NPT	074545-003-22-001				
0025	00004.000	EA		0996955-0012	SEMS MACH SCREW, HXHD, 1/4"L, 6-32UNC	012624-SEE TI DWG				
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ENCODER CARD, LO VOLT, 17 SLOT CH. (100V)		
APPROV. ENG.		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2265325-0001		
							PART NUMBER	LM 2265325-0001		
							REV	D		



SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:
 • DIMENSIONS ARE IN INCHES
 • TOLERANCES: ANGLES ±1°
 3 PLACE DECIMALS ±.010
 2 PLACE DECIMALS ±.02
 • INTERPRET DRAWING PER M.I.D. 1000
 • REMOVE ALL BURRS AND SHARP EDGES
 • CONCENTRICITY MACHINED DIMENSIONS: .010 FIM
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 • PARENTHESES INFO FOR REF ONLY

HOLE TOLERANCE:
 .013 - .004 .126 - .005 .251 - .006
 THRU .001 THRU .001 THRU .001
 .50 - .048 .751 - .112 1.001 - .012
 .752 - .041 1.002 - .001 1.200 - .001

APPROVED: *C. KEELER* 3-13-79
 DESIGNED: *C. KEELER* 3-16-79
 DRAWN: *[Signature]* 3-21-79
 CHECKED: *[Signature]* 3-21-79

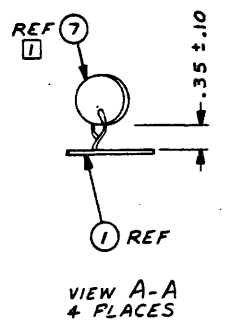
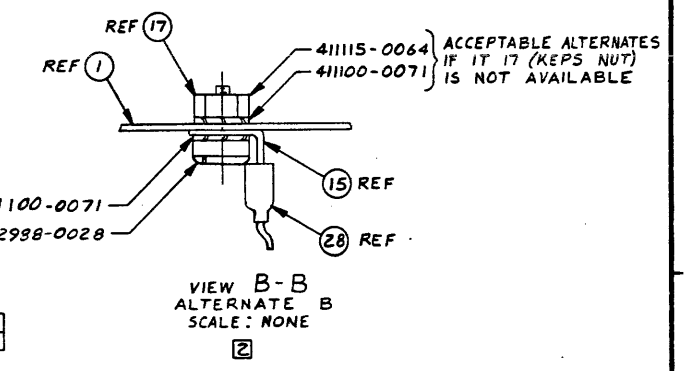
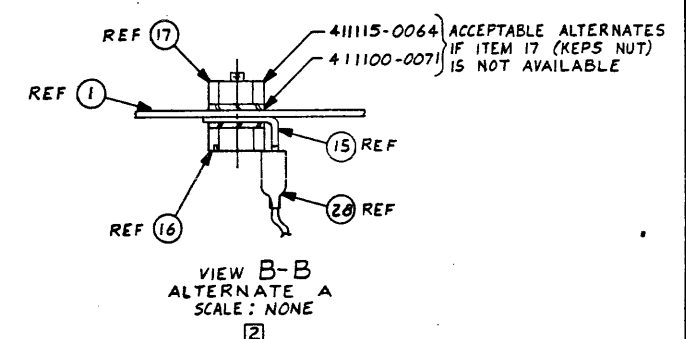
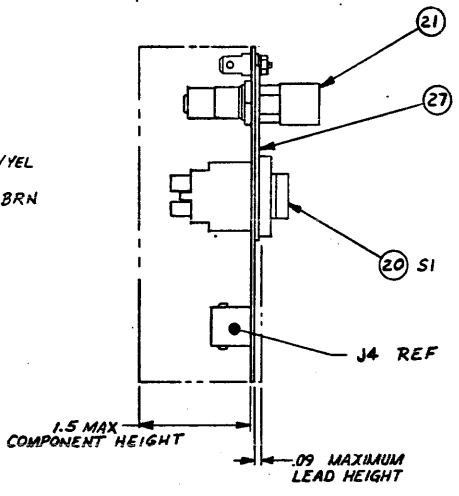
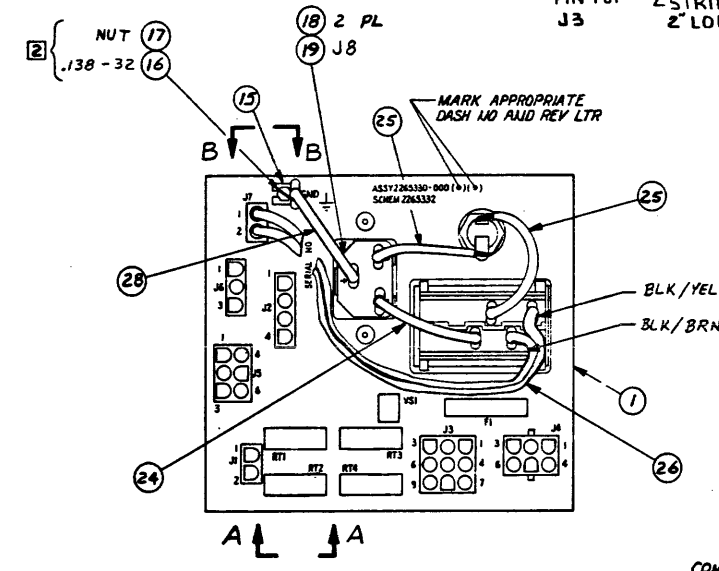
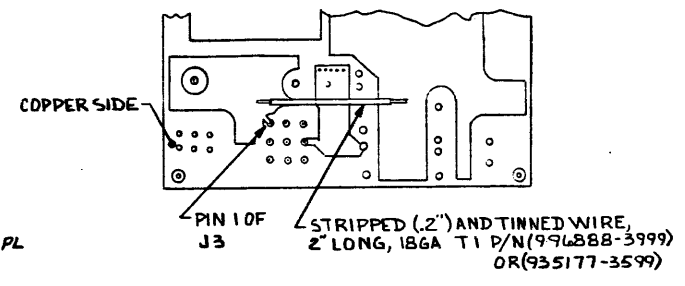
TEXAS INSTRUMENTS
 INCORPORATED
 Dallas, Texas

SCHEMATIC,
 ENCODER BOARD,
 LOW VOLTAGE

REV: *[Signature]* 3-21-79
 D96214 2265327

NOTES: UNLESS OTHERWISE SPECIFIED:

- 1 RT 1 THRU RT 4 MAY BE ROTATED TO FACILITATE MOUNTING AS LONG AS THE BODIES ARE SPACED A MINIMUM OF .25 INCHES APART
- 2 ACCEPTABLE ALTERNATES TO ITEM 16 (SEMS SCREW) ARE SCREW (P/N 972988-0028) AND WASHER (P/N 411100-0071). ACCEPTABLE ALTERNATES TO ITEM 17 (KEPS NUT) ARE WASHER (P/N 411100-0071) AND NUT (P/N 41115-0064)
- 3. REWORK ALL REV A PWB S(TI. NO. 226533) BY SOLDERING AWIRE FROM TETCH TO TETCH LOCATED AS SHOWN:



REV LEVEL	TEST PROC	2265333-9901	*	*	*	*	*
	LOGIC	2265332-9901	*	A	A	A	A
	PWB	2265331-0001	*	B	B	F	C
	ASSEMBLY	2265330-0001	*	A	B	C	D

ACCEPTABLE ALTERNATES IF ITEM 16 (SEMS SCREW) IS NOT AVAILABLE { 411100-0071 972988-0028 }

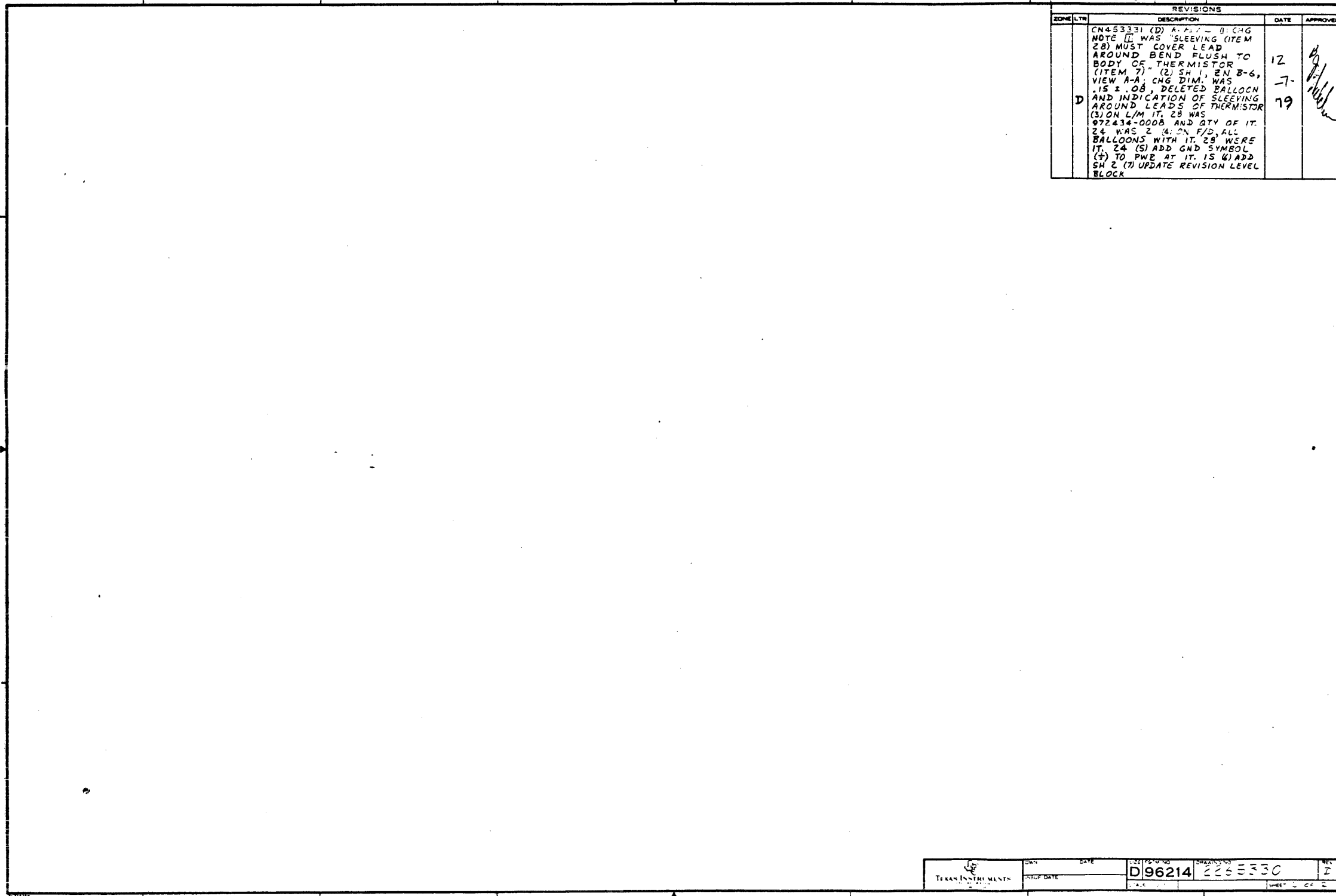
REVISION LEVEL	REV	D	D
OF SHEETS	SHEET	1	2

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES
3	MARK	100-02	21	HGT .09, CLR BLACK	
2	SLDR	127-01	00		
1	SLDR	124-02	00		

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			ENCODER CARD, HIGH VOLTAGE, 17 SLOT CHASSIS		
			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		
			D96214		
			2265330		

REV	DESCRIPTION	DATE	APPROVED
A	CN 454608 (C) R. Pad (1) IT. 22 WAS 2210402-0002 (2) IT. 23 WAS 2210403-0026 (3) IT. 29 WAS 2265398-0003 (4) DELETED -0002, -0003 & -0004 LM'S AND DASH NO. BLOCK FROM FIELD OF DWG (5) ADDED FLAG NOTE 2 (6) NEXT ASSY WAS 2265429 (7) UPDATED REVISION LEVEL BLOCK	6-20-79	[Signature]
B	CN 447061 (B) J. [unclear] (ADDED NOTE 3 REWORK NOTE FOR REV A (2) UPDATED REV LEVEL BLOCK)	8-9-79	[Signature]
C	CN 454401 (C) E. [unclear] (1) IN C-7, BALLOONS FOR ITEMS 16 & 17 WERE REVERSED (2) ADDED VIEW B-B (ALTERNATES 'A' & 'B') (3) UPDATED REVISION LEVEL BLOCK	8-30-79	[Signature]

CONTINUED SH 2 EN D-1 & 2

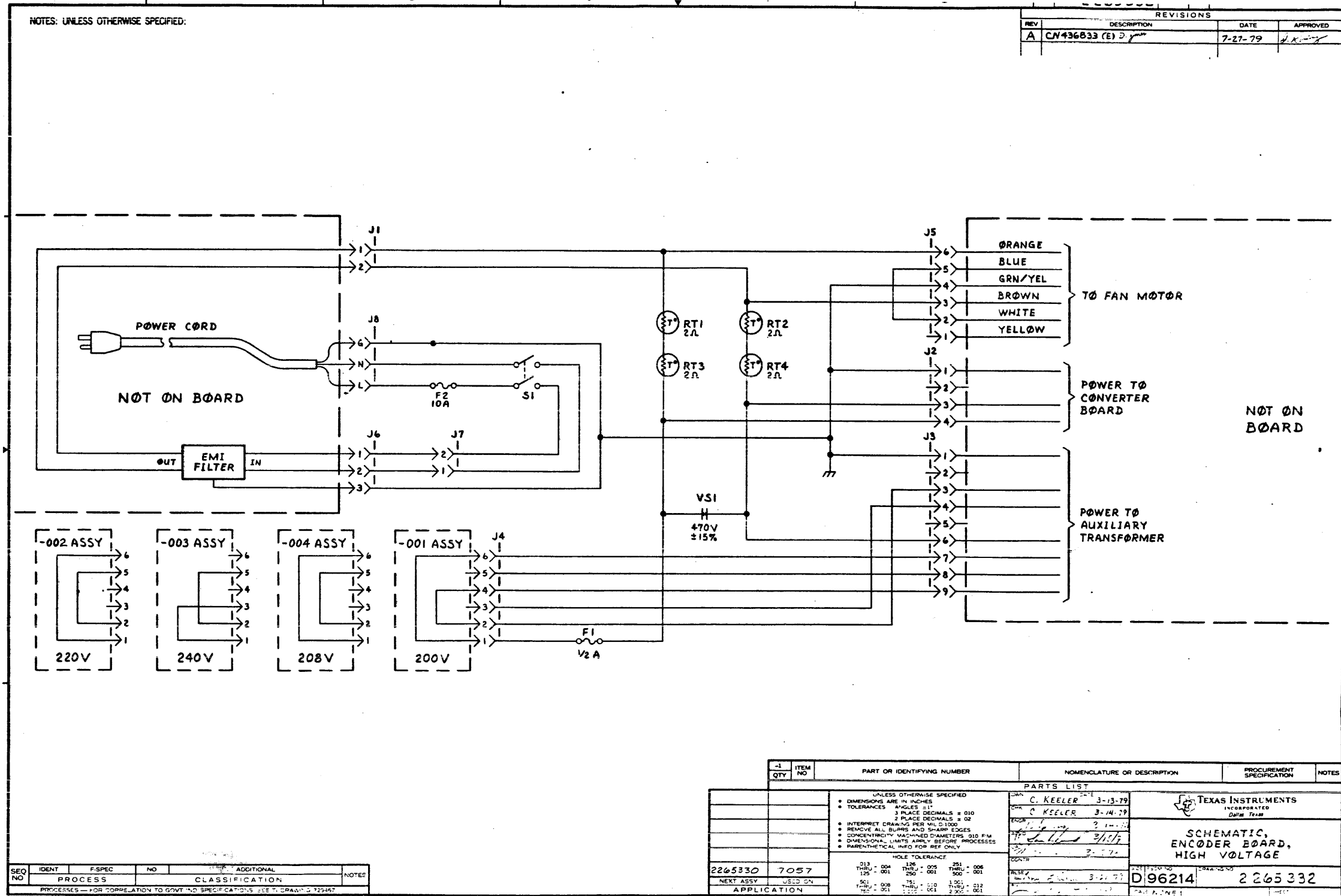


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		CN45331 (D) A. P. 1 - 01 CHG NOTE IT WAS SLEEVING (ITEM 28) MUST COVER LEAD AROUND BEND FLUSH TO BODY OF THERMISTOR (ITEM 7) (2) SH 1 EN B-6, VIEW A-A, CHG DIM. WAS .15 ± .08, DELETED BALLOON AND INDICATION OF SLEEVING AROUND LEADS OF THERMISTOR (3) ON L/M IT, 28 WAS 972414-0008 AND QTY OF IT, 24, WAS 2 (4) ON F/D, ALL BALLOONS WITH IT, 28, WERE IT, 24 (5) ADD GND SYMBOL (+) TO PWB AT IT, 15 (6) ADD SH 2 (7) UPDATE REVISION LEVEL BLOCK	12 -7- 79	<i>[Signature]</i>

TEXAS INSTRUMENTS	DATE	DESIGN NO.	ORGANIZATION	REV.
	ISSUE DATE	D 96214	2265330	2

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of 2		PART NUMBER LM 2265330-0001		REV D	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		2265331-0001	PWB, ENCODER CARD, HIGH VOLTAGE, 17 SLOT				
0002	REF	FA		2265332-9901	LOGIC DIAG, ENCODER CARD, HIGH VOLTAGE				
0003	REF	EA		2265333-9901	TEST PROC, ENCODER CARD, HIGH VOLTAGE				
0004	REF	FA		2265334-9901	SPEC, ENCODER CARD, HIGH VOLTAGE, 17 SLOT				
0005	00001.000	FA		0972217-0500	FUSE, GLASS TUBE PIGTAIL, 1/2 AMP	-SEE DRAWING			
0005A				F1					
0006	00001.000	FA		0974805-0013	SURGE VOLTAGE PROTFCTOR .295 X .012 5K	025088-82-8470			
0006A				VS1					
0007	00004.000	EA		2210230-0001	THERMISTOR, DISK	015454-5G-21			
0007A				RT1 RT2 RT3 RT4					
0008	00001.000	EA		0996287-0001	HEADER, PIN, SHORT SOLDER TAIL, 2 CIRCUITS	000779-350786-1			
0008A				J7					
0009	00001.000	EA		0996166-0003	HEADER, SOCKET, SHORT SOLDER TAIL, 4 CKTS	000779-350826-1			
0009A				J2					
0010	00001.000	EA		0996166-0006	HEADER, SOCKET, SHORT SOLDER T 9 CIRCUITS				
0010A				J3					
0011	00001.000	FA		0996287-0005	HEADER, PIN, SHORT SOLDER TAIL, 6 CKTS	000779-350711-1			
0011A				J4					
0012	00001.000	EA		0996166-0005	HEADER, SOCKET, SHORT SOLDER T 6 CIRCUITS	AMP - 350827-1			
0012A				J5					
DRAFTSMAN R. Paul		DATE 11/24/79	CHKD. BO	DATE 12-7-79	TITLE ENCODER CARD, HI VOLT, 17 SLOT CH. (200V)				
APPD. ENG. R. Paul		DATE 11/24/79	APPD. PROJECT ENGINEER BO	DATE 12-7-79	PROJECT NO. 7057	PART NUMBER LM 2265330-0001		REV D	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of 2		PART NUMBER LM 2265330-0001		REV D	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0013	00001.000	FA		0996287-0002	HEADER, PIN, SHORT SOLDER TAIL, 3 CIRCUITS	000779-350789-1			
0013A				J6					
0014	00001.000	EA		0996166-0001	HEADER, SOCKET, SHORT SOLDER T 2 CIRCUITS	AMP - 350824-1			
0014A				J1					
0015	00001.000	FA		0996456-0001	TAB, QUICK CONNECT	000779-621660001			
0016	00001.000	FA		0996955-0014	SEMS MACH SCREW, SLTD HXHD, 3/8L, 32UNC, 6				
0017	00001.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING			
0018	00002.000	EA		0972831-0003	RIVET, 1/8X.235, TUBULAR, STEEL, BLIND	019738-1821-0408			
0019	00001.000	FA		2210404-0003	RECPT, SNAP-IN, POWER, BLACK, .059 THK PNL	00KLAB-SEE DWG			
0019A				J8					
0020	00001.000	FA		2210410-0001	SWITCH, ROCKER, DPST	00BAER-SEE DWG			
0020A				S1					
0021	00001.000	FA		2210402-0001	FUSEHOLDER AND NUT ONLY	SCHURT-FEU 031.1653			
0024	00001.000	FA		2265433-0001	JUMPER, ENCODER CARD, HI VOLTAGE				
0025	00002.000	EA		2265432-0001	JUMPER, FUSE, ENCODER CARD, HI VOLTAGE				
0026	00001.000	FA		2265434-0001	CABLE ASSY, SWITCH, ENCODER CARD				
0027	00001.000	EA		2265418-0001	PLATE MTG, POWER, HIGH VOLT, 17 SLOT				
0028	00001.000	FA		2265491-0001	JUMPER, GROUND, ENCODER CARD				
DRAFTSMAN		DATE	CHKD. DRAFTSMAN	DATE	DESIGN ENGINEER	TITLE ENCODER CARD, HI VOLT, 17 SLOT CH. (200V)			
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	PROJECT NO.		PART NUMBER LM 2265330-0001	



SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT. NO. SPECIFICATIONS, SEE T. DRAWING 723457

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:
 • DIMENSIONS ARE IN INCHES
 • ANGLES = 1°
 • TOLERANCES = 3 PLACE DECIMALS ± 0.02
 • 2 PLACE DECIMALS ± 0.2
 • INTERPRET DRAWINGS PER MIL-D-1000
 • REMOVE ALL BURRS AND SHARP EDGES
 • CONCENTRICITY MACHINED DIAMETERS 0.10 P.M.
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 • PARENTHESES FOR REF ONLY

HOLE TOLERANCE:
 013 THRU 004 126 THRU 006
 126 THRU 001 250 THRU 001
 501 THRU 008 1.001 THRU 012
 1.001 THRU 001 2.000 THRU 001

APPROVED: *[Signature]* 3-13-79
 C. KEELER 3-14-79
 2/15/79
 3-21-79

TEXAS INSTRUMENTS
 INCORPORATED
 DALLAS, TEXAS

SCHEMATIC,
 ENCODER BOARD,
 HIGH VOLTAGE

D96214 2265332

-0001

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	ITEM NO
1	NO 20 AWG BLK		PI-1	PI-3	2
2	NO 20 AWG BLK		PI-1	PI-6	2

-0002

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	ITEM NO
1	NO 20 AWG BLK		PI-1	PI-3	2
2	NO 20 AWG BLK		PI-1	PI-5	2

-0003

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	ITEM NO
1	NO 20 AWG BLK		PI-1	PI-6	2
2	NO 20 AWG BLK		PI-2	PI-4	2

-0004

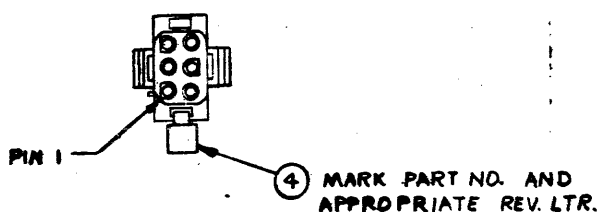
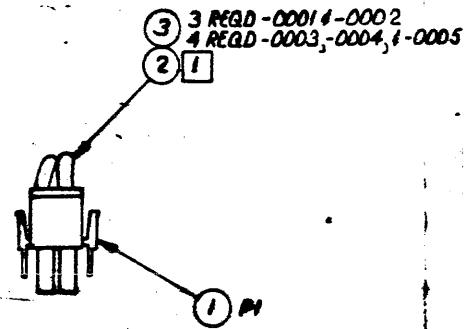
WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	ITEM NO
1	NO 20 AWG BLK		PI-1	PI-6	2
2	NO 20 AWG BLK		PI-2	PI-5	2

-0005

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	ITEM NO
1	NO 20 AWG BLK		PI-1	PI-3	2
2	NO 20 AWG BLK		PI-2	PI-5	2

NOTES:
 1 JUMPERS SHALL BE 5 INCHES LONG, MAXIMUM

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		CN 447605 (E) R. P. L. ON ALL DASH NO. L.M.'S; CHANGE "UNIT OF ISSUE" OF ITEM 2 FROM "EA" TO "FT"	3-2-79



PART NUMBER	DESCRIPTION
2265398-0005	240V, PLUG, PWR CONVERTOR
2265398-0004	200/220V PLUG, PWR CONVERTOR
2265398-0003	200V, PLUG, PWR CONVERTOR
2265398-0002	115V, PLUG, PWR CONVERTOR
2265398-0001	100V, PLUG, PWR CONVERTOR

PROCESSES:
 1. MARK PER F-100, METHOD VII,
 CLASS 12, COLOR BLACK, TYPE 6.

2265325	7057
2265330	7057
NEAT ASSY	USED ON
APPLICATION	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED			
<ul style="list-style-type: none"> DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES = 1° 3 PLACE DECIMALS = 010 2 PLACE DECIMALS = 02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIM DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHETICAL INFO FOR REF ONLY 			
DATE 12/15/78		TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	
3		PLUG, POWER CONVERTOR	
DATE 2-26-79		SIZE / ESCU NO C96214	
DATE 3-21-79		DRAWING NO 2265398	
DATE 3-20-79		SCALE 1/1	

TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM265398-0001		REV A	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	FA		0996009-0005	CONNECTOR HOUSING, MALE PLUG 6 CIRCUITS	AMP - 350715-1					
0001A					P1						
0002	00000.900	FT		2210016-4000	WIRE, ELEC, BLK, U/L 1431, 19 X 32, 20 AWG	090484-SEE DRAWING					
0003	00003.000	EA		0996007-0006	CONT, CONN, CRIMP STYLE, 20-14AWG, .200INSUL	000779-350537-3					
0004	00001.000	FA		0418231-0063	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PLUG, POWER CONVERTER, 100V				
R. Park	01.1.79	V. [Signature]	8-9-79				PROJECT NO.	PART NUMBER	REV		
APP'D - MFG	DATE	APP'D - PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		LM265398-0001	A		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM265398-0002		REV A	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	FA		0996009-0005	CONNECTOR HOUSING, MALE PLUG 6 CIRCUITS	AMP - 350715-1					
0001A					P1						
0002	00000.900	FT		2210016-4000	WIRE, ELEC, BLK, U/L 1431, 19 X 32, 20 AWG	090484-SEE DRAWING					
0003	00003.000	EA		0996007-0006	CONT, CONN, CRIMP STYLE, 20-14AWG, .200INSUL	000779-350537-3					
0004	00001.000	FA		0418231-0063	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PLUG, POWER CONVERTER, 115V				
							PROJECT NO.	PART NUMBER	REV		
APP'D - MFG	DATE	APP'D - PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		LM265398-0002	A		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM265398-0003		REV A	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	FA		0996009-0005	CONNECTOR HOUSING, MALE PLUG 6 CIRCUITS	AMP - 350715-1					
0001A					P1						
0002	00000.900	FT		2210016-4000	WIRE, ELEC, BLK, U/L 1431, 19 X 32, 20 AWG	090484-SEE DRAWING					
0003	00003.000	EA		0996007-0006	CONT, CONN, CRIMP STYLE, 20-14AWG, .200INSUL	000779-350537-3					
0004	00001.000	FA		0418231-0063	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	PLUG, POWER CONVERTER, 200V				
							PROJECT NO.	PART NUMBER	REV		
APP'D - MFG	DATE	APP'D - PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		LM265398-0003	A		

TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM2265398-0004		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	FA		0996009-0005	CONNECTOR HOUSING, MALE PLUG 6 CIRCUITS	AMP - 350715-1						
0001A					P1							
0002	00000.000	FT		2210016-4000	WIRE, ELEC, BLK, U/L 1431, 19 X 32, 20 AWG	090484-SEE DRAWING						
0003	00004.000	FA		0996007-0006	CONT, CONN, CRIMP STYLE, 20-14AWG, .200INSUL	000779-350537-3						
0004	00001.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	GPL-MS-3368-1-98						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE PLUG, POWER CONVERTER, 220V/208V					
APPROVING		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							PART NUMBER LM2265398-0004		REV A			

TEXAS INSTRUMENTS INCORPORATED		DATE 07/31/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM2265398-0005		REV A		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		0996009-0005	CONNECTOR HOUSING, MALE PLUG 6 CIRCUITS	AMP - 350715-1						
0001A					P1							
0002	00000.000	FT		2210016-4000	WIRE, ELEC, BLK, U/L 1431, 19 X 32, 20 AWG	090484-SEE DRAWING						
0003	00004.000	FA		0996007-0006	CONT, CONN, CRIMP STYLE, 20-14AWG, .200INSUL	000779-350537-3						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE PLUG, POWER CONVERTER, 240V					
APPROVING		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							PART NUMBER LM2265398-0005		REV A			

USER'S RESPONSE SHEET

Manual Title: Model 990 Computer Family Maintenance Drawings, Volume I, Computer Chassis and Enclosures (945421-9701)

Manual Date: 15 June 1980 Date of This Letter: _____

User's Name: _____ Telephone: _____

Company: _____ Office/Department: _____

Street Address: _____

City/State/Zip Code: _____

Please list any discrepancy found in this manual by page, paragraph, figure, or table number in the following space. If there are any other suggestions that you wish to make, feel free to include them. Thank you.

CUT ALONG LINE

Location in Manual	Comment/Suggestion
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
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INCORPORATED

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