TM02/TU16

CONTROL LOGIC TEST

MD-11-DZTUC-E

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AUTHOR:

R. B. BARNES

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1. ABSTRACT

THIS PROGRAM IS DESIGNED TO SEQUENTIALLY TEST ALL CONTROL LOGIC AND DATA FORMATTING WITHIN THE TM62 FORMATTER. EACH TEST WILL ATTEMPT TO ISOLATE FAILURES TO THE MODULE LEVEL AND PROVIDE PRINTOUT INFORMATION WHICH WILL IDENTIFY THE FAILING MODULE. THERE ARE TWO (2) MAJOR AREAS OF TESTING: CONTROL LOGIC AND DATA FORMATTING. THE CONTROL LOGIC SECTION (TEST 1-41 & 57-64) WILL TEST ALL ERROR AND STATUS CONDITIONS AS WELL AS ADDRESSING PROTOCOL AND OPERATIONAL LOGIC SEQUENCES. THE DATA FORMATTING SECTION (TESTS 42-56) WILL TEST ALL DATA FORMATS AND TRANSFER PATHS IN ALL POSSIBLE COMBINATIONS. THE LEVEL OF FAULT ISOLATION IS POSSIBLE BECAUSE OF TM62 THE STRUCTURE AND ITS MAINTAINENCE MODES.

2. REQUIREMENTS (HARDWARE)

- A. ANY PDP-11 PROCESSOR WITH OR WITHOUT A HARDWARE SWITCH REGISTER
- B. OK OF CORE
- C. CONSOLE TTY
- D. THEZ MAGTAPE CONTROLLER
- E. MASSBUS CONTROLLER (RH)
- F. TU16 MAGTAPE TRANSPORT
- 3. LOADING PROCEDURE

USE STANDARD PROCEDURE FOR LOADING BINARY PAPER TAPE.

4. STARTING PROCEDURE

THERE ARE TWO (2) STARTING ADDRESSES THAT MAY BE USED: 200(8) AND 210(8).

- A. 200(6): STARTING AT THIS ADDRESS WILL CAUSE A PROGRAM IDENTIFICATION HEADER TO BE PRINTED BEFORE TESTING IS BEGUN.
- B, 210(8): STARTING AT THIS ADDRESS WILL NOT PRINT THE IDENTIFICATION HEADER AND IS THEREFORE GENERALLY TO BE USED FOR RESTARTS RATHER THAN INITIAL START
- ***IF THE SOFTWARE SWITCH REGISTER IS USED THEN THE FOLLOWING MESSAGE WILL BE TYPED FIRST; SWR=XXXXXX NEW= THIS WILL ALLOW THE LOADING OF THE SOFTWARE SWITCH REGISTER LOC. 176 BEFORE THE TESTING IS STARTED. (REFER TO SECTION 5 FOR OPERATOR OPTION)

5. CONSOLE SWITCH SETTINGS

IF THE DIAGNOSTIC IS RUN ON A CPU WITHOUT A SWITCH REGISTER THEN A SOFTWARE SWITCH REGISTER IS USED WHICH ALLOWS THE USER THE SAME SWITCH OPTIONS AS THE HARDWARE SWITCH REGISTER. IF THE HARDWARE SWITCH REGISTER DOES NOT EXIST OR IF ONE DOES AND IT CONTAINS ALL ONES (177777) THEN THE SOFTWARE SWITCH REGISTER (LOC. 176) IS USED.

CONTROLE

THIS PROGRAM ALSO SUPPORTS THE DYNAMIC LOADING OF THE SOFTWARE SWITCH REGISTER (LOC. 176) FROM THE TTY, THIS CAN BE ACCOMPLISHED BY DOING THE FOLLOWING:

- 1) TYPE CONTROL G < G>; THIS WILL ALLOW THE TTY TO ENTER DATA INTO LOC. 176 AT SELECTED POINTS WITHIN THE PROGRAM.
- 2) THE MACHINE WILL THEN TYPE: SWR-XXXXXNEWS (XXXXXX IS THE OCTAL CONTENTS OF THE SOFTWARE SWITCH REGISTER.)
- 3) AFTER THE "NEWS" HAS BEEN TYPED THEN THE OPERATOR CAN DO ONE OF THE FOLLOWING AT THE TTY:
 - A) TYPE A NUMBER TO BE LOADED INTO LOC. 176 FOLLOWED BY A <CR>. (ONLY NUMBERS BETWEEN 8-7 WILL BE ACCEPTED AND ONLY 6 NUMBERS WILL BE ALLOWED)

 IF A <CR> IS THE FIRST KEY DEPRESSED THE SOFTWARE SWITCH REGISTER CONTENTS WILL NOT BE CHANGED.
 - B) IF A CONTROL U < U> IS DEPRESSED THEN THE PROGRAM WILL SEND YOU BACK TO STEP 2.

ALL SWITCHES ARE USED (0-15) AND THE NORMAL, OR DEFAULT, RUN IS DONE WITH ALL SWITCHES SET TO ZERO (0).
ALL SWITCHES ARE DYNAMIC AND MAY BE CHANGED AT ANY TIME.

AS STATED ABOVE UNDER CONTROL HEADING.

SW15(100000): 1=HALT ON ERROR

0=CONTINUE

SW14(040000): 1=LOOP ON ERROR (SCOPE)

@=CONTINUE

SW13(020000): 1=DO NOT PRINT ERRORS

8W12(010000): 1=INHIBIT ITERATIONS

GETTERATE EACH TEST ITS ASSIGNED AMOUNT

SW11(004000): 1=DO CONTINUOUS CYCLE

SW10(002000): 10HALT AT END OF CURRENT TEST

S-CONTINUE TO NEXT TEST

G-HALT AT END OF PASS

SW9(001000): 1=DO MANUAL ITERVENTION TESTS 0=INHIBIT MANUAL INTERVENTION

SWE(000400): 1=INHIBIT WRAP AROUND DATA CHECK

8=DO DATA CHECKS

SW7 (000200): 1=INHIBIT WRAP AROUND STATUS CHECK

0=DO STATUS CHECK

SW6(000100): 1=SELECTABLE WRAP DATA PATTERN (IN SINGLE TEST)

GEAUTO PATTERN

SW5-0: SELECT INDIVIDUAL TEST (1-64) ** 90=DO ALL TESTS

6, ERROR PRINTOUTS

ERROR PRINTOUTS WILL APPEAR IN TWO FORMS, ONE FOR THE CONTROL LOGIC TESTS AND ANOTHER FOR THE DATA TESTS.

CONTROL LOGIC PRINTOUTS WILL CONTAIN A HEADER WHICH CALLS
OUT THE TEST NUMBER, FUNCTION BEING TESTED, AND THE SUSPECT MODULE,
OR MODULES ON THE FIRST LINE. THE SECOND LINE WILL CONTAIN INFORMATION
AS TO THE ACTUAL ERROR. BOTH THE EXPECTED RESULT AND THE ACTUAL
RESULT OF THE TEST WILL BE GIVEN. LINE THREE WILL SHOW THE
CONTENTS OF THE MAJOR REGISTERS AT THE TIME OF THE ERROR AND
LINE FOUR WILL PRINT THE ITERATION NUMBER WHEN APPLICABLE.

DATA TESTS WILL PRINT A HEADER CONTAINING THE TEST NUMBER, AND A DESCRIPTION OF THE WRAP AROUND FUNCTION UNDER TEST. FOLLOWING THE HEADER WILL BE A LIST OF THE MAJOR REGISTERS WITH THE EXPECTED AND ACTUAL VALUES. ANY BAD DATA WILL BE PRINTED (PER CHARACTER) FOLLOWING THE REGISTER INFORMATION OR FOLLOWING THE HEADER IF NO STATUS ERRORS WERE ENCOUNTERED.

EXAMPLES:

1. THE FOLLOWING EXAMPLE SHOWS A TYPICAL ERROR PRINTOUT FOR THE ADDRESS TESTS (LT1-LT3).

LOGIC TEST 1: DRIVE ADDRESSING (M8989 OR RH) NON-EXIST DRIVE 3 EXPT-NOT RECVD ITER: 3

THIS PRINTOUT SHOWS THAT THE DRIVE ADDRESS (CS2 BITS 2,1,6)
RESULTED IN THE DETECTION OF NED (BIT 12 OF CS2) FOR DRIVE
THREE (3) WHEN THAT DRIVE SHOULD BE THERE. THIS ERROR OCCURRED
ON ITERATION THREE (3).

2. THIS EXAMPLE WILL SHOW A TYPICAL PRINTOUT OF ONE OF THE REGISTER BIT TESTS.

LOGIC TEST 7: FC BIT TEST (M8705) FC BITS 15-0 EXPT 177777 RECVD 177577

THIS PRINTOUT SHOWS THAT FRAME COUNT BIT SEVEN (7) WAS NOT SET WHEN IT SHOULD HAVE BEEN. NO ITERATION NUMBER IS DISPLAYED WHEN RUNNING WITH CONSOLE SWITCH TWELVE (12) SET TO A ONE (1).

3. THE FOLLOWING IS A TYPICAL PRINTOUT RESULTING FROM BAD STATUS DETECTION DURING A MANUAL INTERVENTION TEST (LT14-LT17)

LOGIC TEST 15: MANUAL STATUS TEST 2 BAD STATUS EXPT 100760 RCVD 000700 ITER: 0

> THIS SHOWS THAT ON THE FIRST TRY (ITER: 0) THE ACTION TAKEN BY THE OPERATOR DID NOT RESULT IN THE PROPER STATUS DETECTION BY THE HARDWARE (ATA IS NOT SET).

4. THE FOLLOWING FOUR (4) EXAMPLES SHOW EACH OF THE ERROR TYPES THAT CAN BE DETECTED BY ANY OF THE ERROR FORCING TESTS. NOTE THAT ONE OR MORE OF THE ERROR TYPES COULD BE DETECTED ON A SINGLE EXECUTION OF THE TEST.

LOGIC TEST 24: DPAR (M8906 RH)

DPAR EXPT EXPT-NOT RCV)

CS1 WC BA C CS2 DS ER AS MR TC

004260 000900 033726 200060 000100 010600 000000 177712 140300

THIS MESSAGE SHOWS THAT DPAR (BIT 5 OF ER) DID NOT SET.

LOGIC TEST 26: FCE (M8909)
ERR NOT SET
CS1 WC BA FC C82 D8 ER AS MR TC
004260 000000 001376 000000 000100 110600 001000 000001 000000 100300

THIS MESSAGE SHOWS THAT WHILE FCE (BIT 9 OF ER) WAS INDEED SET, THE COMPOSITE ERROR BIT (BIT 14 OF DS) WAS NOT.

LOGIC TEST 30: DTE (M8906 RH)
UNEXPTECTED ERROR BITS
CS1 WC BA FC CS2 DS ER AS MR TC
144260 002006 006600 000000 001300 150600 030000 000001 000017 100300

THIS MESSAGE SHOWS THAT WHILE THE PROPER ERROR BIT (DTE: BIT 12 OF ER) IS SET, OPI (BIT 13 OF ER) IS ALSO SET AND SHOULD NOT BE.

LOGIC TEST 32; UNS (M8989) NOT RESET BY DRIVE CLEAR

CS1 WC BA FC CS2 DS ER AS MR TC 144210 002006 006600 000000 001300 150000 240000 000001 000000 140307

THIS MESSAGE SHOWS THAT WHILE THE PROPER ERROR BITS WERE SET, THEY WERE NOT CLEARED BY A DRIVE CLEAR OPERATION.

5. THE FOLOWING ARE TWO EXAMPLES OF ERRORS DETECTED BY THE WRAP AROUND DATA TESTS, NOTE THAT EACH WRAP AROUND TEST MAY BE ACCOMPANIED BY EITHER A STATUS ERROR OF A DATA ERROR OR BOTH.

LOGIC TEST 42: WRAP 3, NRE, NORMAL, ODD BAD STATUS CS1 EXPT 004270 RCVD 144270 CS2 EXPT 000100 RCVD 000100 DS EXPT 010600 RCVD 150600 ER EXPT 000000 RCVD 000100

THIS MESSAGE INDICATES BAD STATUS OF VPE (BIT 6 OF ER)

LOGIC TEST 44: WRAP 2, NRZ, NORMAL, ODD BAD DATA CN:0
G: 11111111
B: 11111011
CN:10
G: 00000000
B: 00001000

THIS MESSAGE SHOWS THAT DATA RECEIVED WAS NOT AS EXPECTED. CHARACTER ZERO (CN: 8) SHOWS THAT BIT TWO (2) WAS DROPPED, WHILE CHARACTER TEN (CN: 18) SHOWS BIT THREE (3) HAS BEEN PICKED UP G: EXPECTED DATA (GOOD)

B: ACTUAL DATA (BAD)

7. OPERATION

THE PROCEDURES FOR OPERATING THIS PROGRAM ARE QUITE SIMPLE AND REQUIRE ONLY A FEW STEPS:

- 1. LOAD ADDRESS 200 OR 210
- 2. SET SWITCHES FOR DESIRED TEST CYCLE

***REFER TO SECTION 5 FOR DYNAMIC LOADING OF SOFTWARE SWITCH REGISTER. ***

3. PRESS START

ALL CONSOLE SWITCHES ARE DYNAMIC AND MAY BE CHANGED AT ANY TIME. THE NORMAL OPERATING SEQUENCE IS ALL SWITCHES DOWN (8). THE TEST WILL TAKE APPROXIMATELY 3 MINUTES TO RUN; HOWEVER, IF ITERATIONS ARE INHIBITED (\$W12=1) THE TEST WILL RUN IN ABOUT 30 SECONDS. THE END OF PASS IS NOTED BY A PRINTOUT STATING END OF PASS, AND THE NUMBER OF THAT PASS.

FOR THE DYNAMIC LOADING OF THE SOFTWARE SWITCH REGISTER REFER TO SECTION 5.

SINGLE TEST SELECTION: (8W6-8W5)

WHEN SWO-SWS ARE SET TO ZERO (00), THE SCHEDULAR WILL EXECUTE ALL TESTS (1-64) IN SEQUENCE. IF SWO-SWS ARE SET TO SOME SPECIFIC TEST NUMBER (1-64) THEN THAT PARTICULAR TEST ONLY WILL BE EXECUTED UNTIL THE TEST SELECT NUMBER IS CHANGED. WHEN YOU WISH TO SELECT A PARTICULAR TEST, SET SW10 TO A ONE (1) IN ORDER TO STOP AT THE END OF THE CURRENT TEST BEFORE SELECTING A DIFFERENT TEST NUMBER. YOU MAY SELECT THAT NUMBER IN ANY DIRECTION (HIGHER OR LOWER) BECAUSE EACH TEST IS SELF CONTAINED.

WRAP AROUND DATA PATTERNS MAY BE SELECTED VIA 8W6 WHEN IN SINGLE TEST MODE. A TELETYPE REQUEST IS MADE FOR THE DESIRED DATA PATTERN WHENEVER SWITCH TEN (8W10) AND SWITCH SIX (8W6) ARE SET TO A ONE (1) WHILE ONE OF THE WRAP TESTS IS SELECTED IN SWO-SWS.

PROGRAM HALTSOO

*** IF THE SOFTWARE SWITCH REGISTER IS USED AND THE PROGRAM HALTS THEN THE OPERATOR CAN PRESS A < G> CONTROL G BEFORE HITTING CONTINUE, THIS WILL ALLOW THE OPERATOR TO ENTER DATA INTO LOC. 176 (SWREG). THE FOLLOWING MESSAGE WILL BE TYPED OUT; SWR=XXXXXX NEWS (REFER TO SECTION 5 FOR OPERATOR OPTIONS).

. TEST DESCRIPTION

LOGIC TEST #1: DRIVE ADDRESSING

PURPOSE: VERIFY THE PRESENCE OF THOSE AT THE ADDRESSES SPECIFIED BY THE OPERATOR. TEST OCCURS IMMEDIATELY AFTER DRIVE SELECTION.

PROGRAMMED SEQUENCE: FOR EACH THOS ADDRESS (0-7) THE C1 REGISTER IS READ, AND THE NON-EXISTANT DRIVE (NED) BIT IS CHECKED, NED IS SET WHEN THE THOS DOES NOT RESPOND TO DEM BY ISSUING TRA. IN THIS TEST, NED IS EXPECTED FOR EACH ADDRESS NOT TYPED BY THE OPERATOR.

LIKELY FAULT LOCATIONS: MS964, CABLE, MS963, M8969

| CIRCUITS | PRINT REFERENCES |
|----------|---|
| ******** | *************************************** |

RH-DS BITS

RH-NED BIT

MASSBUS CABLE C(DEM, TRA, DS BITS)

DRIVE ADDRESS

CMB12)

DEM-TRA HANDSHAKE

(CSRB)

(MB3)

(MB12)

LOGIC TEST #2: REGISTER ADDRESSING

PURPOSE: CHECK THE REGISTER SELECT LINES

PROGRAMMED SEQUENCE: READ ALL 14 MASSBUS REGISTERS WHICH MAKE UP THE TAPE SYSTEM CHECKING FOR (1) CONTROL BUS PARITY ERROR AND (2) ILR BIT

LIKELY FAULT LOCATIONS: M5904, CABLE, M5903, M8909, M8905, M8903

| CIRCUITS | PRINT REFERENCE |
|----------|-----------------|
| ******* | ************* |

C-LINES
(MB1,2,3),(MBI3),(MBI4),(MBI5)
RH REGISTER SELECT
(BCTA)
TM02 REGISTER SELECT
(MBI2)
MASSBUS REGISTER SELECT LINES
(MB1,2)
PARITY TREE
(MBI4)
CPAR,ILR BITS
(MBI11)

(PAGE 9)

LOGIC TEST #3: CONTROL BUS

PURPOSE: VERIFY THAT ALL CONTROL LINES PROPERLY TRANSMIT ONES AND ZEROS.

PROGRAMMED SEQUENCE: WRITE FC REGISTER AND CHECK CPAR, READ FC AND CHECK MCPE, UPDATE DATA, REPEAT, DATA IS ALL 6'S, WALKING '1' BIT, ALL '6'S, 2 WALKING '1' BITS BEGINNING WITH BIT 9 AND 8 DATA IS CHECKED ALONG WITH ERROR BITS.

LIKELY FAULT LOCATIONS: M5984, CABLES, M5983YA, M8989, M8985, M8983

CIRCUITS

NCPE BIT

PRINT REFERENCE

C-LINES C-BUS MULTIPLEXERS ERROR BIT (MB1,2,3) (MB13,4,5,8)(TCCM7)(MR)

(MBI11) (PACA)

LOGIC TEST #4: SLAVE ADDRESSING

PURPOSE: VERIFY THE FUNCTIONING OF THE SLAVE ADDRESS BITS IN THE TAPE CONTROL REGISTER THE SLAVE ADDRESS BUS LINES, THE ADDRESS DECODE CIRCUIT IN THE TU16 AND THE SPR BIT.

LIT IS REQUIRED THAT ONLY ONE SLAVE BE POWERED UP WHEN
THIS TEST IS RUN,

PROGRAMMED SEQUENCE: THE SLAVE ADDRESS BITS IN THE TAPE CONTROL REGISTER ARE LOADED WITH ALL & COMBINATIONS AND SPR IS CHECKED FOR EACH ADDRESS.

LIKELY FAULTS LOCATIONS: M8905, M8907, CABLE, M9001, M8910, M9001YA, M8903

CIRCUITS

PRINT REFERENCE

REGISTER SELECT SLAVE ADDRESS BITS SLAVE ADDRESS LINES TU16 ADDRESS DECODE SPR BIT

(MBI2) (MR6) (M8907,2-2),(LAW6) (LAW6) (LAW6) (M9001YA)(TCCM7) LOGIC TEST #5: MAINTENANCE REGISTER BITS

PURPOSE: TO VERIFY THAT THE VARIOUS BITS OF THE MAINTENANCE REGISTER CAN BE WRITTEN INTO AND READ AND OTHERWISE BEHAVE AS EXPECTED.

PROGRAMMED SEQUENCE: IN THE FIRST SEQUENCE AN INCREMENTING DATA WORD (8-37) IS WRITTEN INTO THE MR, WITH THE CONTENTS OF BITS 8-4 BEING CHECKED AFTER EACH OPERATION, THEN 15 (OCTAL) IS WRITTEN INTO THE REGISTER WHICH SHOULD PERMIT BITS 7-15 TO BE WRITTEN FROM THE CONTROL BUS, THEN THE DATA WRITTEN INTO BITS 7-15 IS INCREMENTED AND CHECKED.

LIKELY FAULT LOCATIONS: NO905

CIRCUITS PRINT REFERENCE

C-LINES
MAINTENANCE REGISTER (MR2,3,5)
M.R. FUNCTION DECODE (MR5)
M.R. MULTIPLEXOR (MR4)

LOGIC TEST #6: TAPE CONTROL REGISTER BITS

PURPOSE: TO VERIFY THAT TAPE CONTROL BITS 0-11 CAN BE WRITTEN INTO AND READ AND THAT TOW BEHAVES AS EXPECTED:

PROGRAMMED SEQUENCE: ALL 6'S DATA PATTERN IS WRITTEN TO AND READ FROM THE TAPE CONTROL REGISTER, TCW IS CHECKED FOR A "ONE". THIS SEQUENCE IS REPEATED WITH ALL "1" DATA AND AGAIN WITH ALL "6"'S.

LIKELY FAULT LOCATIONS: M8909, M8905

CURCUITS PRINT REFERENCE
TM02 REGISTER SELECT (MBI2)
TC FLIP-FLOPS, MULTIPLEXERS (MR6)

LOGIC TEST #7: FRAME COUNT BIT TEST

PURPOSE: TO VERIFY THAT THE FRAME COUNT BITS CAN BE WRITTEN INTO AND READ FROM AND ARE NEITHER STUCK AT @ NOR STUCK AT 1.

PROGRAMMED SEQUENCE: DATA IS WRITTEN INTO THE FRAME COUNT REGISTER AND READ FROM IT, THE DATA PATTERN IS ALL ZEROS FOLLOWED BY ALL ONES FOLLOWED BY ALL ZEROS.

LIKELY FAULT LOCATIONS: M8909

CIRCUITS PRINT REFERENCE

TM02 REGISTER SELECT (MBI2)
FRAME COUNT REGISTER (MBI8)
FRAME COUNT MULTIPLEXERS (MBI10)

LOGIC TEST #10: FUNCTION CODE BIT TEST

PURPOSE: TO VERIFY THAT THE FUNCTION CODE BITS CAN BE WRITTEN INTO AND READ FROM AND ARE NEITHER STUCK AT 0 NOR STUCK AT 1.

PROGRAMMED SEQUENCE: THE C1 REGISTER IS WRITTEN WITH ALL ZEROS. DATA IS CHECKED ON THE 5 FUNCTION CODE BITS (BITS 1-5). BITS 1-5 ARE WRITTEN WITH ONES, CHECK AND REPEAT WITH ALL ZEROS.

LIKELY FAULT LOCATION: M8909, M8905

CIRCUITS PRINT REFERENCE

TM02 REGISTER SELECTION (MBI2)
FUNCTION CODE FLOPS (MBI5)
FUNCTION CODE MULTIPLEXERS (MR6)

LOGIC TEST #11: GO BIT SET, RESET

PURPOSE: TO VERIFY THAT THE GO BIT CAN BE SET IN A SIMULATED READ OPERATION AND CLEARED WITH AN INIT.

PROGRAMMED SEQUENCE: INIT AND CHECK THAT GO=0. SET UP A SIMULATED READ OPERATION BY LOADING A WAM3 15(OCTAL) INTO THE MAINTENANCE REGISTER, CLEARING THE FRAME COUNT REGISTER TO SET FCS, LOAD 1700 (FORMAT) INTO THE TAPE CONTROL REGISTER, SETTING READ COMMAND AND GO BIT, CHECK FOR GO=1. INIT AND CHECK THAT GO BIT=0.

LIKELY FAULT LOCATION: MASSBUS CABLE B(INIT), M8969, M8965

| CIRCUIT | PRINT REFERENCE |
|--------------------|-----------------|
| ••••• | •••••• |
| FCS | NDIO |
| SET ILF | MBI7 |
| SET NEF | MBI7 |
| GO BIT | MBIS |
| GO BIT MULTIPLEXER | MR6 |
| SET ILR | MBI2 |
| | |

LOGIC TEST #12: DRIVE READY BIT

TEST 12 IS AN EXACT REPEAT OF TEST 11 EXCEPT THAT DRIVE READY (DRY) IS CHECKED INSTEAD OF THE GO BIT, DRY IS SIMPLY GO L MULTIPLEXED ONTO THE C-LINES AS BIT SEVEN OF THE STATUS REGISTER.

PRINT REF TCCM7

LOGIC TEST #13: INTERRUPT TEST

PURPOSE: TO VERIFY THE OPERATION OF THE RH INTERRUPT LOGIC.

PROGRAMMED SEQUENCE: THE C1 REGISTER IS CLEARED, PRIORITY IS SET, THE INTERRUPT ENABLE BIT IS SET AND THE INTERRUPT IS AWAITED.

LIKELY FAULT LOCATION:

CIRCUITS

PRINT REFERENCE

INTERRUPT CONTROL

BCTF

MANUAL INTERVENTION TESTS 14,15,16,17

LOGIC TEST #14: STATUS AT BOT, ON LINE, LOADED, NO WRITE RING

PURPOSE: TO TEST FOR THE PRESENCE OF MOL, WRL, DPR, DRY, BOT.

PROGRAMMED SEQUENCE: THE OPERATOR IS INSTRUCTED TO LOAD THE DRIVE WITH A TAPE MINUS THE WRITE ENABLE RING AND PLACE THE DRIVE ON LINE AT BOT MOL, WRL, DPR, DRY, BOT ARE CHECKED.

LIKELY FAULT LOCATION: M8918, SLAVE CABLE, M8983

| CIRCUIT | PRINT REFERENCE |
|---------|---|
| ****** | *************************************** |

| | 교교 (10) (14) (14) (14) 전문 (17) (17) (17) (17) (17) (17) (17) (17) |
|-----|---|
| MOL | LAWS, TCCM7, M8988, M9881 YA, YC |
| WRL | LAWS, TCCM7, N8908, M9081YA, YC |
| DPR | TCCN7 |
| DRY | TCCM7 |
| BOT | LAW6, TCCM7, M8988YA, M8913, YA |

LOGIC TEST #15: STATUS AT BOT, OFFLINE, LOADED, NO WRITE RING

PURPOSE: TO TEST ATA, DPR, DRY, SSC

PROGRAMMED SEQUENCE: OPERATOR IS INSTRUCTED TO TAKE DRIVE OFFLINE: ATA, 88C, DPR, DRY ARE CHECKED.

LIKELY FAULT LOCATION: M8918, M8983, M8989, SLAVE CABLE

CIRCUIT

PRINT REFERENCE

SSC

LAW8, M8913, M8913YA, TCCM7 MBI3

LOGIC TEST #16: STATUS AT EOT, ON LINE, LOADED, NO WRITE RING

PURPOSE: TO TEST EOT, SSC, SLA

PROGRAMMED SEQUENCE: THE OPERATOR IS INSTRUCTED TO MOVE TO EOT AND PLACE THE DRIVE ON LINE. EOT, SSC, SLA ARE CHECKED IN ADDITION TO ATA, MOL, WEL, DPR, DRY

LIKELY FAULT LOCATION: M8910, SLAVE CABLE, M8983

CIRCUIT

PRINT REFERENCE

SSC

SLA

LAW8, M8913, M8913YA, TCCM7 LAW6, TCCM7, M8908YA, M8913YA LAW8, TCCM7, M9001YA, YC, M8908 LOGIC TEST #17: STATUS AT ONLINE LOADED

TEST 17 IS EXACTLY LIKE TEST 16 EXCEPT THAT THE DRIVE IS REVERSED OFF OF EOT AND THE WRITE ENABLE RING IS INSTALLED.

EACH OF THE NEXT 11 TESTS ARE DESIGNED TO VERIFY THE ABILITY TO SET SPECIFIC ERROR BITS.

LOGIC TEST #20: ILLEGAL FUNCTION

PROGRAMMED SEQUENCE: THE WORD COUNT IS SET TO -1. ALL CODES STORED IN THE ILLEGAL FUNCTION TABLE ARE LOADED AND ILF IS CHECKED FOR EACH ONE, THEN UNEXPECTED ERRORS ARE CHECKED.

LIKELY FAULT LOCATION: M8989

CIRCUIT

PRINT REFERENCE

SET ILF DECODE ILF FLOP ILF MULTIPLEXER MBI5, MBI7 MBI11 MBI10 LOGIC TEST #21: REGISTER MODIFICATION REFUSED

PROGRAMMED SEQUENCE: INIT, SELECT SLAVE AND DRIVE, LOAD 366 • TAPE CONTROL REGISTER LOAD WAMS IN THE MAINTENANCE REGISTER, LOAD THE C1 REGISTER WITH A READ COMMAND AND GO BIT, ATTEMPT TO WRITE THE FRAME COUNT REGISTER, READ ERROR REGISTER, CHECKING FOR RMR, CHECK FOR UNEXPECTED ERRORS WAIT FOR ACCL, DELAY, DO EOP CLEAR,

LIKELY FAULT LOCATION: M8909

CIRCUIT PRINT REFERENCE

RMR DECODE MBI2
RMR FLOP MBI11
RMR MULTIPLEXER MBI16

LOGIC TEST #22: CONTROL BUS PARITY (CPAR)

PROGRAMMED SEQUENCE: WRITE 20(8) INTO CS2. ENABLING THE WRITING OF EVEN PARITY ON MASSBUS. WRITE ALL ONES TO FRAME COUNT. RESET PAT. CHECK ERROR REGISTER FOR CPAR CHECK FOR OTHER UNEXPECTED ERRORS.

LIKELY FAULT LOCATIONS: M8989

CIRCUIT PRINT REFERENCE

MASSBUS PARITY TREE MBI4
CPAR FLOP MBI11
CPAR MULTIPLEXER MBI10

LOGIC TEST #23: FORMAT ERROR (FMT)

PROGRAMMED SEQUENCE: AN ILLEGAL FORMAT CODE IS LOADED INTO THE TAPE CONTROL REGISTER, WAM3 IS LOADED INTO THE MR READ COMMAND AND THE GO BIT IS SET, THE ERROR REGISTER IS CHECKED FOR FORMAT ERROR AND UNEXPECTED ERROR BITS, THIS SEQUENCE IS REPEATED FOR ALL ILLEGAL FORMAT CODES

LIKELY FAULT LOCATIONS: M8905, M8906, M8909

CIRCUIT PRINT REFERENCE

FORMAT BITS MR6
ILF DECODE BF3
ILF FLOP MBI11
ILF MULTIPLEXERS MBI10

LOGIC TEST #24: DATA BUS PARITY ERROR (DPAR)

PROGRAMMED SEQUENCE: SET UP A WRAP 2 AS FOLLOWS:
NORMAL FORMAT ---> TAPE CONTROL REGISTER, -10 ---> WORD
COUNT, -20 ---> FRAME COUNT, WAM2 ---> MAINTENANCE REGISTER, LOAD WRITE COMMAND AND GO BIT. SET PAT BIT IN
CS2. AFTER A DELAY MR IS LOADED 4 TIMES CAUSING 2 DATA
BUS TRANSFERS. DPAR AND CPAR ARE CHECKED. THEN A CHECK
FOR UNEXPECTED ERRORS IS MADE MASKING OPI.

LIKELY FAULT LOCATIONS: DBUS LINES, M8985, M8986

CIRCUIT PRINT REFERENCE

MM CLK
WRT CLK GENERATION
DPAR FLOP
DATA BUS PARITY TREE

MR5
TCCM4
MBI11
BF3

LOGIC TEST #25: NON-EXECUTABLE FUNCTION (NEF)

PROGRAMMED SEQUENCE: LOAD FC WITH -1. SET WAM 2. SET WRITE AND GO. ILF SHOULD SET DUE TO TOO SMALL INITIAL FRAME COUNT. CHECK ILF. CHECK FOR UNEXPECTED ERRORS.

LIKELY FAULT LOCATION: M8989

CIRCUIT PRINT REFERENCE

NEF FLOP MBI11 NEF MULTIPLEXER MBI10 SET NEF MBI7

LOGIC TEST #26: FRAME COUNT ERROR

PROGRAMMED SEQUENCE: SET WC TO -10, FC TO -20 WAM3 IN MAINTENANCE REGISTER, LOAD WRITE AND GO, DELAY ISSUE MM OR CLEAR. CHECK FCE AND CHECK FOR UNEXPECTED ERRORS. FRAME COUNT ERROR SHOULD BE SET BECAUSE A WRITE OPERATION WAS TERMINATED PRIOR TO A WORD COUNT OVERFLOW.

LIKELY FAULT LOCATIONS: M8969, MB CABLE, M8963, M8965

CIRCUITS PRINT REFERENCE

RUN LINE MB1
EBL PLS MB19
FCE FLOP MB111
SHUTDOWN LOGIC TCCMS
MAINT, FUNCTION DECODE MR5

LOGIC TEST #27: ILLEGAL REGISTER

PROGRAMMED SEQUENCE: IF THE RH HAS ALL MASSBUS REGISTER OPEN (MOST SYSTEM IN THE FIELD DON'T), ALL THE ILLEGAL REGISTER ADDRESSES ARE READ, CHECKING THE ILR BIT AFTER EACH ATTEMPT.

LIKELY FAULT LOCATIONS: MASSBUSS, Me969

CIRCUITS

PRINT REFERENCE

REGISTER SELECT LINES
REGISTER SELECT DECODE
ILR FLOP

MBI, MB2 MBI2 MBII1

LOGIC TEST #30: DRIVE TIMING ERROR

PROGRAMMED SEQUENCE:

THE MAINTENANCE REGISTER IS LOADED WITH A FUNCTION THAT IS DESIGNED TO CRIPPLE OCCUPIED. FRAME COUNT REGISTER IS CLEARED TO SET FCS LOAD WRITE COMMAND AND GO BIT. CHECK FOR DTE. THEN DRIVE IS INITIALIZED. FCS IS SET AND WRP 3 CODE IS LOADED INTO MR. WRITE COMMAND AND GO BIT ARE SET. AFTER DELAY FOR ACCELERATION, THE MR CLOCK IS GENERATED AND ANOTHER CHECK IS MADE FOR DTE. FINAL CHECK IS MADE FOR ERRORS OTHER THAN OPI. THE FIRST MAINTENANCE REGISTER CODE WHICH CRIPPLES THE OCCUPIED RECEIVER CAUSES OCCUPIED TO BE ASSERTED AND TESTS THE CIRCUITRY WHICH CHECKS FOR OCCUPIED WHEN A DATA TRANSFER COMMAND IS INITIATED. THE SECOND TEST UTILIZES THE FACT THAT THE MRP 3 CODE INHIBITS THE MASSBUS WCLK RECEIVER CREATING A SITUATION WHERE SCLK IS NOT FOLLOWED BY A WRITE CLOCK.

LIKELY FAULT LOCATIONS: M8989, M8985, M8986, MB CABLES

| CIRCUITS | PRINT REFERENCES |
|--|---|
| ••••• | *************************************** |
| DTE FLOP CRIPPLE OCCUPIED FUNCTION WRP 3 FUNCTION PREVIOUS OCCUPIED CHECK CHECK FOR WCLK | MBI11 MR5 MR5 MBI7 BF2 |
| MM CLK | MRS |

LOGIC TEST 31: OPERATION INCOMPLETE (OPI)

PROGRAMMED SEQUENCE:

SET UP INCLUDES FORMAT, WRP 2 (BIT FIDDLER WRITE), FCS. WRITE COMMAND AND GO BIT ARE SET AND THE PROGRAM DELAYS FOR OPI. A SECOND TEST INVOLVES SETTING UP WRP 3 AND ISSUING A READ COMMAND. ESSENTIALLY THIS TEST UTILIZES THE WRAPAROUND CODES TO PREVENT ANY RECORDS BEING DETECTED AFTER A READ OR A WRITE COMMAND IS ISSUED.

LIKELY FAULT LOCATIONS: M8983, M8989

CIRCUITS PRINT REFERENCES

OPI TIMER TCCMS
OPI FLOP MBI11
OPI TIMER CONTROL MBI7

LOGIC TEST 32: UNSAFE (UNS)

PROGRAMMED SEQUENCE:

A NON-EXISTANT SLAVE IS SELECTED AND A READ COMMAND IS ISSUED. UNSAFE ERROR IS CHECKED.

LIKELY FAULT LOCATIONS: MO909, MO910, SLAVE CABLE

CIRCUITS PRINT REFERENCES

UNSAFE FLOP MBI11
SET UNSAFE MBI7
MOL GENERATION LAW6

LOGIC TEST 33: POSITIONING IN PROGRESS (PIP)

PROGRAMMED SEQUENCE:

SET UP DRIVE AND SLAVE ARE SELECTED, FCS IS SET. A SPACE COMMAND IS ISSUED AND PIP IS CHECKED.

LIKELY FAULT LOCATIONS: M8989, M8983

CIRCUITS PRINT REFERENCES

SPACE FUNCTION DECODE MBIS
PIP GENERATION TCCM7
STATUS REGISTER TCCM7

LOGIC TEST 34: PHASE-ENCODED STATUS (PES)

PROGRAMMED SEQUENCE:

DENSITY CODES 6 - 4 ARE LOADED AND PES IS CHECKED FOR EACH CODE. IT IS EXPECTED ONLY FOR DENSITY 4.

LIKELY FAULT LOCATIONS: M8905, SLAVE BUS, M8911, M8903

CIRCUITS PRINT REFERENCES

DENSITY BITS MR6
DENSITY LINES SBC
PES CIRCUIT SC3
PES STATUS BIT TCCM7

LOGIC TEST 35: TAPE CONTROL WRITE (TCW)

PROGRAMMED SEQUENCE:

SETUP FORMAT AND WRP-3 ARE SET, READ COMMAND IS ISSUED. TOW IS CHECKED. DRIVE IS INITIALIZED, TAPE CONTROL REG-ISTER IS WRITTEN TO AND TOW IS CHECKED.

LIKELY FAULT LOCATION: M8985

CIRCUIT

PRINT REFERENCES

TCW

MR6

LOGIC TEST 36: FRAME COUNTER STATUS (FCS)

PROGRAMMED SEQUENCE:

DRIVE IS INITIALIZED, FCS IS CHECKED, DRIVE IS INITIALIZED, FRAME COUNTER IS WRITTEN TO, AND FCS IS CHECKED.

LIKELY FAULT LOCATIONS: M8909, M8903

CIRCUITS

PRINT REFERENCES

FCS BIT FCS MULTIPLEXER MBIS TCCM7 LOGIC TEST 37: ACCELERATION (ACCL)

PROGRAMMED SEQUENCE:

DRIVE IS INITIALIZED, FORMAT IS SET AND ACCL IS CHECKED FOR ONE, WAN 3 CODE IS LOADED, READ COMMAND IS ISSUED, AFTER A DELAY ACCL IS CHECKED FOR ZERO.

LIKELY FAULT LOCATIONS: M8983, M8911

CIRCUITS

PRINT REFERENCES

ACCL BIT, MOTION DELAY COUNTER CLOCK

TCCH3

LOGIC TEST 40: PE TAPE HARK (TM)

PROGRAMMED SEQUENCE:

DRIVE IS INITIALIZED, WAMS IS SET, WRITE TAPE MARK IS SET. AFTER DELAY TAPE MARK BIT IS CHECKED, WAMS MULTIPLEXES THE OUTPUT OF THE WRITE DATA GENERATOR ONTO THE RDA LINES. THE DATA SYNC MODULES SYNC ON THE DATA AND SEND ENVELOPE INFORMATION TO THE TAPE MARK DETECTOR ON M8982.

LIKELY FAULT LOC IONS: M8982, M8981, M8983, M8985

CIRCUITS

PRINT REFERENCES

TAPE MARK DETECTOR
TAPE MARK MULTIPLEXER
ENVELOPE SIGNALS
WRITE DATA SUFFER
RDA MULTIPLEXERS
WRITE TAPE MARK FUNCTION
WAMO SIGNAL

TCPE4, TCPES
TCCM7
D8 3, 5, 7
TCCM2
TCCM6
MBIS
MRS

LOGIC TEST 41: NRZ TAPE MARK (TM VPE, ITM)

PROGRAMMED SEQUENCE:

SAME AS TEST 40 EXCEPT NRZ DENSITY IS SELECTED.

LIKELY FAULT LOCATIONS: M8903, N8904

WRITE DATA BUFFER TCCM2
RSDØ MULTIPLEXER TCCM6
RDA MULTIPLEXERS TCCM6
TM DETECTOR CNRZ4
ILLEGAL TAPE MARK FLOP CNRZ4

SEE NOTE ON PAGE 22 FOR TESTS 42-56

LOGIC TEST 42: WRP3, NRZ, NORMAL, ODD (BIT FIDDLER READ)

PROGRAMMED SEQUENCE:

TAPE CONTROL REGISTER IS LOADED WITH DENSITY 3, FORMAT 14, ODD PARITY WRP3 IS LOADED IN MAINT, REGISTER, READ FUNCTION IS LOADED, EXECUTING WRAP3 CONSISTS LOADING DATA CHARACTERS INTO MAINT, REGISTER DATA FIELD, WHERE THERE ARE MULTI-PLEXERS TO BIT FIDDLER, MM CLK IS TOGGLED TO CREATE RDS. THE BIT FIDDLER TRANSMIT DATA ACCESS MASSBUS DATA LINES. WHEN ALL THE DATA HAS BEEN TRANSMITTED AN EOR CLK IS TRANSMITTED TO N REGISTER WHICH BRINGS OPERATION TO A CLOSE.

LIXELY FAULT LOCATIONS: M8906, M8905, MASSBUS P-LINES

| CIRCUITS | PRINT REFERENCES |
|----------------------------|---|
| ••••• | *************************************** |
| MASSBUS CHAR, ASSEMBLE | BF5 |
| CLK. GENERATOR | BF2 |
| MAINT, REGISTER DATA FIELD | MR2, MR3 |
| RDS GENERATION | MR5 |

LOGIC TEST 43: WARPS, PE, NORMAL, ODD

JUST LIKE TEST 42 EXCEPT FOR DENSITY BITS.

LOGIC TEST 44: WRAP2, NRE, NORMAL, ODD

PROGRAMMED SEQUENCE:

WRAP2 IS BIT FIDDLER WRITE, MM CLOCK IS MULTIPLEXED INTO WRT CLK SO THAT IT FORMS WRT STROBE. THE OUTPUT OF THE BIT FIDDLER IS CLOCKED INTO THE DATA FIELD OF THE MAINT-ENANCE REGISTER. SET UP CONSISTS OF MOVING NRZ, NORMAL FORMAT, ODD PARITY TO UNIT DESCRIPTION MAINT. REGISTER IS LOADED WITH WAM2 WRITE COMMAND IS ISSUED. AFTER THE ACCELERATION DELAY, MM CLOCK ARE GENERATED UNTIL ALL THE DATA HAS BEEN CLOCKED. SEQUENCE IS COMPLETED BY LOADING MANTENANCE REGISTER WITH EOR CLR. THE SEQUENCE IS REPEATED WITH VARYING DATA PATTERNS.

LIKELY FAULT LOCATIONS: M8906, M8905, M8903

CIRCUITS PRINT REFERENCES

BIT FIDDLER CHAR UNPACK
BIT FIDDLER DATA REQUEST
WRT STRB.
MAINT, REG, DATA FIELD
BF4
BF2
TCCM4
MR2, MR3

LOGIC TEST 45: WRP2, PE, NORMAL, ODD

THE TEST IS EXACTLY LIKE TEST 44 EXCEPT THAT PE WAT CLK ENDL L MUST BE ASSERTED BY M8982 TO ENABLE WAT TO STROBE. THIS DOES NOT HAPPEN UNTIL THE PE WRITE CONTROL CIRCUIT HAS CLOCKED THROUGH THE PREAMBLE.

CIRCUITS

PRINT REFERENCES

(IN ADDITION TO TEST 44)
PE WRITE CONTROL

TCPES

LOGIC TEST 46: WRP1, NRZ, NORMAL, ODD

THIS TEST IS EXACTLY LIKE TEST 44 EXCEPT THE WRITE BUFFER (TCCM2) IS MULTIPLEXED TO THE MAINTENANCE REGISTER.

LIKELY FAULT LOCATIONS: M8903, M8904 (CRC GENERATOR)

CIRCUITS

PRINT REFERENCES

WRITE BUFFER CRC GENERATOR TCCM2 CNRZ2

LOGIC TEST 47: WRAP1, PE, NORMAL, ODD

IN PE MODE BOTH THE PREAMBLE AND POSAMBLE ARE CLOCKED THROUGH THE WRITE BUFFER IN ADDITION TO PHASE ENCODED DATA.

LIKELY FAULT LOCATIONS: M8982 (WRITE CONTROL STATES), M8983

CIRCUITS

PRINT REFERENCE

WRITE BUFFER WRITE CONTROL TCCM2

LOGIC TEST 50: WRAPO, NORMAL, ODD

WRAP 8 IS THE MOST COMPLETE OF THE TM82 WRAPAROUND DATA PATH, IT CONSISTS OF A WRITE OPERATION IN WHICH THE OUT-PUT OF THE WRITE DATA BUFFER IS MULTIPLEXED TO THE READ DATA INPUTS, CHECKED AND LOADED INTO THE MAINTENANCE REGISTER FOR RETRIEVAL BY THE PROCESSOR. THE WHOLE OPERATION USES THE TYPE SYSTEM CLOCKS AND HAPPENS AT THE PROPER DATA RATES, MM CLK SERVES AS A FLAG ANNOUNCING WHEN A NEW CHARACTER HAS BEEN LOADED INTO THE MAINTENANCE REGISTER. IN PE MODE EVERY OTHER CHARACTER IS READ TO ALLOW SUFFICIENT PROCESSOR LOOP TIME. IN NRZ WRAP 8 IS EXPECTED TO PRODUCE LRC ERRORS BECAUSE THE TM82 DOES NOT WRITE THE LRC CHARACTER.

LIKELY FAULT LOCATIONS: M8984, M8983

| CIRCUITS | PRINT REFERENCES |
|------------------------|------------------|
| ••••• | ••••••• |
| CRC GENERATOR | CNR22 |
| CRC CHECKOUT | CNRZ3 |
| CRC, CRC STROBE | TCCH4 |
| READ LINE MULTIPLEXERS | TCCM6 |
| NN CLK | MRS |
| CRC READ TIMING | CNR24 |
| SHUTDOWN CIRCUITRY | TCCHS |

LOGIC TEST 51: WRPS, PE, NORMAL, ODD

REPEAT OF TEST 50 IN PE MODE.

LIKELY FAULT LOCATIONS: M8961, M8962, M8963

| CIRCUITS | PRINT REFERENCES |
|---------------------------------|------------------|
| ••••• | •••••• |
| DATA DISCRIMINATOR | D82, D84, D86 |
| PHASE LOCKED CLOCK | D83, D85, D87 |
| SKEW BUFFER | D83, D85, D87 |
| PE WRITE MAJOR STATES | TCPE3 |
| PE READ MAJOR STATES | TCPES |
| WRAP Ø CIRCUIT TO BLOCK RLT RDS | TCPE3 |
| DESKEW BUFFER READ COUNTER | TCPE4 |
| | |

LOGIC TEST 52: CORE DUMP WRITE, WAM2

REPEAT OF TEST 44 EXCEPT BIT FIDDLER OPERATES IN CORE DUMP HODE!

LIKELY FAULT LOCATION: N8906

LOGIC TEST 53: CORE DUMP READ, WAM3

REPEAT OF TEST 42 EXCEPT BIT FIDDLER OPERATES IN CORE DUMP MODE!

LIKELY FAULT LOCATION: M0906

LOGIC TEST 54: EVEN PARITY WRITE - WAM1

REPEAT OF TEST 46 EXCEPT EVEN PARITY IS SPECIFIED.

LIKELY FAULT LOCATION: M8903

LOGIC TEST 55: EVEN PARITY READ: WAME,

REPEAT OF TEST 50 EXCEPT EVEN PARITY IS USED.

LIKELY FAULT LOCATIONS: Me903, Me904

LOGIC TEST 56: READ REVERSE, WAND (M8986)

REPEAT OF TEST 42 EXCEPT READ REVERSE COMMAND IS ISSUED.

LIKELY FAULT LOCATIONS: M8968, M8969

.. NOTE: FOR TESTS 42-56.0

FOR THE MOST PART, THIS DIAGNOSTIC TESTS PARTICULAR AREAS OF THE TMO2 LOGIC INDEPENDENT OF THE TU16. HOWEVER THERE ARE A FEW SIGNALS WHICH ARE REQUIRED FROM THE TU16 TO COMPLETE THE TESTS, AND AT LEAST ONE CASE WHERE TU16 FAILURES INTERFERE WITH THE TESTS. THE KNOWN CASES ARE LISTED HERE AND SHOULD BE CHECKED AS PART OF THE DEBUGGING.

- 1. MOL(88)L: REQUIRED TO ENABLE CLOCK
- 2. CLOCK(SB)L: REQUIRED TO GENERATE ACCELERATION AND SHUTDOWN.
- 3. WRITE CLOCK(SB)L: USED IN WAMS TO GENERATE DATA AND REC(SB)L
- 4. REDØ(SB)L: SHOULD NOT OCCUR DURING WRAP AROUND TESTS, BUT WILL INTERFERE WITH THEIR OPERATION IF CAUSED BY A FAILURE SUCH AS A GROUNDED OUTPUT FROM THE GOSG.

THE NEXT 5 TESTS CONSISTS OF WRITING ON TAPE USING MAIN-TENANCE MODE FUNCTIONS TO FORCE ERROR CONDITIONS TO CHECK THE ERROR CHECKING CAPABILITIES. OCCASIONAL ERRORS MAY RESULT FROM TAPE DEFECTS. CONSTANT ERROR MAY BE THE RESULT OF PROBLEMS WITH ERROR CHECKING CIRCUITRY OR PROBLEMS WITH THE DRIVE. DEBUG OF THE PROBLEMS MAY BE EASIER USING DATA RELIABILITY OF UTILITY DRIVER.

LOGIC TEST 57: CYCLIC REDUNDANCY ERROR

PROGRAMMED SEQUENCE:

FIRST THE DIAGNOSTIC PERFORMS A WRAPS DESIGNED TO LOAD THE CRC CHECKER IN A KNOWN MANNER. CHECK ARE MADE FOR LRC ERROR AND THE CONTENT OF CRC REGISTER. THEN A WRITE OPERATION IS PERFORMED USING A MAINT, MODE (IICC) WHICH INHIBITS THE INITIALIZATION OF THE CRC CHECKER. THE CRC CHECKER LOGIC WHICH HAS NOT BEEN CLEARED SHOULD DETECT A CRC ERROR. UNEXPECTED ERROR BITS MAY INDICATE PROBLEMS WITH THE WRITE OPERATION.

LIKELY FAULT LOCATIONS: M8985, M8984, G856, SLAVE CABLE,

CIRCUITS

PRINT REFERENCES

MM FUNCTION DECODE CRC CHECK CIRCUIT MR5 CNRE3 LOGIC TEST 60: LRC

PROGRAMMED SEQUENCE:

A WRITE OPERATION IS PERFORMED WITH A MM FUNCTION (INC TMRL) WHICH ASSERTS WD(SB) SL THROUGHOUT THE RECORD. ALL ONES DATA IS USED SO THAT THE FUNCTION ONLY INTERFERES WITH THE WRITING OF THE LRC CHARACTER WHEN NONE OF THE TMG2 WRITE DATA LINES SHOULD BE ASSERTED.

LIKELY FAULT LOCATIONS: Meses, Meses, Meses, Meses, Meses

CIRCUITS

PRINT REFERENCES

MM FUNCTION DECODE WRITE LINE DRIVERS WRITE HEAD DRIVERS LRC CHECKING MRS TCCM2 LAW3, 4 CMRE3 (PAGE 31)

LOGIC TEST 61: PE CORRECTABLE DATA

PROGRAMMED SEQUENCE:

A PE WRITE OPERATION IS PERFORMED USING A FUNCTION WHICH WILL GROUND THE BIT STROBE LINE ON BIT 1. THIS SHOULD CAUSE THE BIT1 DEAD TRACK PLOP TO ASSERT AND CAUSE CORECTABLE DATA ERROR, THE DEAD TRACK REGISTER IS CHECKED FOR BIT 1.

LIKELY FAULT LOCATIONS: M8905, M8901, M8902

CIRCUITS PRINT REFERENCES

MM FUNCTION DECODE MRS
BIT STROBE CIRCUIT D84
DEAD TRACK FLOP D85, TCPE2
DEAD TRACK REGISTER MR4

LOGIC TEST 62: PE INCORRECTABLE DATA

REPEAT OF TEST 61, EXCEPT THAT THE MAINT, MODE FUNCTION GROUNDS BITS STROBE FOR BITS 1, 2 AND THE WD LINE FOR BIT 5 IN HELD ASSERTED, INC. DATA AND PCF ERRORS ARE EXPECTED.

LIKELY FAULT LOCATIONS: M8902, M8901

CIRCUIT PRINT REFERENCE

INC ERROR, PEF, TCPE2

(PAGE 32)

LOGIC TEST 63: PE FORMAT

THE MM FUNCTION USED IN THIS TEST INVERTS THE DATA USED IN PREAMBLE AND POSTAMBLE OF BIT ONE.

LIKELY FAULT LOCATIONS: M0902, M0903, M0905

CIRCUITS

PRINT REFERENCES

PEF. WRITE BUFFER NM DECODE

TCPE2 TCCM2 MR5

LOGIC TEST 64: FRAME COUNT OVERFLOW

THIS TEST USES A WRAP2 TO CHECK THE OVERFLOW OF FRAME COUNT REGISTER.

LIKELY FAULT LOCATION: M8909

FRAME COUNT REGISTER MBIS

. LISTING

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TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 1
DZTUCE.P11
```

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.TITLE TH02/TU16 CONTROL LOGIC TEST
                                             MAINDEC-11-DETUC-E-D
                                             121 OCT 75
                                             IR. BARNES
                                             PREVISED 21 APRIL 76 BY S. CARPENTER
                                                     TO SUPPORT THE DYNAMIC LOADING OF THE
                                                     SOFTWARE SWITCH REGISTER
                                             .ABS
10
11
                                             CONSOLE SWITCHES ......
12
                                             18W15: 1=HALT ON ERROR
14
                                                     SECONTINUE
15
                                             SW14: 1=LOOP ON ERROR
16
                                                     S=CONTINUE
17
                                             18W13: 1=DO NOT PRINT ERRORS
                                                     SOPRINT ERRORS
18
19
                                             18W12: 10INHIBIT ITERATIONS
                                                     CODO ITERATIONS
21
                                             18W111
                                                     1=CONTINUOUS CYCLE
                                                     SCHALT AT END OF PASS
23
                                                     1-HALT AT END OF EACH TEST
                                             18W101
24
25
                                                     8-CONTINUE
                                                     11=DO MANUAL INTERVENTION TESTS
                                             18W91
26
                                                     SEINHIBIT MANUAL INTERVENTION
27
28
29
30
31
                                                     18NO WRAP DATA CHECK
                                             18W8:
                                                     GODO WRAP DATA CHECK
                                             18W71
                                                     1=NO WRAP STATUS CHECK
                                                     BODO WRAP STATUS CHECK
                                             18W6:
                                                     10SELECTABLE WRAP DATA PATTERN (IN SINGLE TEST)
32
                                                     S-AUTO PATTERNS
                                             18WG-51 SELECT TEST NUMBER 11 GO-ALL TESTS
```

TM82/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 2 DZTUCE,P11

| | TU16 REGISTER BITS |
|--------|--|
| | ;15 ;14 ;13 ;12 ;11 ;10 ;09 ;00 ;07 ;06 ;05 ;04 ;03 ;02 ;01 ;00 ; ;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| , wcı | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| , DA1 | ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| ıFC1 | ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| 10831 | ;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| ;DS: | ; ATA; ERR; PIP; MOL; WRL; EOT; SPR; DPR; DRY; SSC; PES; SDN; IDB; TMK; SOT; SLA; |
| 1ER1 | ;CDE;UNB;OPI;DTE;NEF;CS;FCE;NSG;PEF;INC;DAT;FMT;CNT;RMR;ILR;ILF; ;CRC; ; ; ; ;ITM; ; ;LRC;VPE;BPE; ;BPE; ; ; ;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| | ; ATTENTION ; SUMMARY ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| | ; CHARACTER ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| , MR: | ; BUFFER ;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| ;DT: | ; 7; 6; 5; 4; 3; 2; 1; 0; P; CLK; CLK; 4; 3; 2; 1; GO; ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| 18N1 | ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| . 1101 | ; XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| | ; WC: ; BA: ; FC: ; C82: ; D8: ; ER: ; AT8: ; CC: ; DB: ; MR: ; DT: ; SN: |

```
DZTUCE, P11
   80
                                              REGISTER EQUIVS******
   81
   82
               000000
                                              R0=10
   83
               000001
                                              R1=81
   84
               000002
                                              R2=42
   85
               000003
                                              R3=83
   86
               000004
                                              R4=84
   87
                                              R5=45
               000005
   88
               000006
                                              SP=16
   89
               800007
                                              PC=87
   90
   91
                                              TRAP CATCHERS ......
   92
   93
               800000
                                              . =0
                                               REPT 200
   94
   95
                                              .+2
   96
                                              HALT
   97
                                               . ENDR
   98
   99
                                              TTY INTERRUPT VECTOR
  100
                                               .=60
  101
               000060
                                              TTINT
       000060 023602
                                                              TTY INTERRUPT HEADER ADDRESS
  102
  103
       000062 000000
  104
  105
                                              SOFTWARE SWITCH REGISTER LOC. 1760000000
  106
                                               .=176
  107
               000176
  108 000176 000000
                                              SWREG: 0
                                                                      SOFTWARE SWITCH REGISTER
  109
  110
  111
                                              START ADDRESS*******
  112
  113
               000200
                                               .=200
  114 000200
               005000
                                              CLR
  115 000202 000167 001206
                                               JMP
                                                       START
                                                              PROGRAM START
  116
  117
               000210
                                               .=210
  118 000210 012700 000001
                                              MOV
                                                      #1,R0
                                                                      SET NO HEADER FLAG
  119
      000214 000167 001174
                                              JMP
                                                      START
  120
  121
                                              TM02 INTERRUPT VECTOR++++++
  122
  123
               000224
                                               .=224
  124 000224 023570
                                              MTINT
                                                              TAPE INTERRUPT HANDLER ADDRESS
  125 000226 000340
                                              340
  126
```

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TM02/TU16 CONTROL LOGIC TEST

TM92/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 4 DZTUCE,P11

| 127 | | | | | |
|-----|--------|--------|--------|-----------|---------------------------|
| 128 | | 000510 | | .=510 | |
| 129 | | | | | REGISTER EQUIVS |
| 130 | | | | IMMOS DUG | KEATOTEK EAATABAAAAAAA |
| 131 | 000510 | 172448 | Cit | 172440 | |
| 132 | 000512 | 172442 | WCI | 172442 | |
| 133 | 000514 | 172444 | | 172444 | |
| 134 | 000516 | 172446 | BAI | | |
| 135 | | | FCI | 172446 | |
| | 999529 | 172450 | CS: | 172450 | |
| 136 | 000522 | 172452 | D8: | 172452 | |
| 137 | 000524 | 172454 | ERI | 172454 | |
| 138 | 000526 | 172456 | ASI | 172456 | |
| 139 | 000530 | 172468 | CC: | 172460 | |
| 140 | 000532 | 172462 | DB | 172462 | |
| 141 | 000534 | 172464 | HR: | 172464 | |
| 142 | 000536 | 172466 | DT: | 172466 | |
| 143 | 000540 | 172470 | SN: | 172470 | |
| 144 | 000542 | 172472 | TC: | 172472 | |
| 145 | | | | | |
| 146 | | | | ; ILLEGAL | FUNCTION CODES |
| 147 | | | | | |
| 148 | 000544 | 005405 | ILFT: | 5405 | |
| 149 | 000546 | 007415 | | 7415 | |
| 150 | 000550 | 016423 | | 16423 | |
| 151 | 000552 | 929437 | | 20437 | |
| 152 | 000554 | 022443 | | 22443 | |
| 153 | 000556 | 025447 | | 25447 | |
| 154 | 000560 | 631455 | | 31455 | |
| 155 | 000562 | 033465 | | 33465 | |
| 156 | 999564 | 036473 | | 36473 | |
| 157 | | | | •••• | |
| 158 | | | | CONSTANT | 800000000 |
| 159 | | | | , | |
| 160 | 000566 | 177776 | PSWI | 177776 | PROCESSOR STATUS |
| 161 | 000570 | 177570 | SWRI | 177570 | SWITCH REGISTER |
| 162 | 000572 | 177560 | TKSI | 177560 | TTY READER STATUS |
| 163 | 000574 | 177562 | TKB: | 177562 | TTY READ BUFFER |
| 164 | 000576 | 177564 | TPSI | 177564 | |
| 165 | 000600 | 177566 | TPBI | | TTY PUNCH STATUS |
| 166 | 000602 | 177777 | | 177566 | TTY PUNCH BUFFER |
| 167 | 000604 | | | 177777 | SERIAL NUMBER |
| 168 | 999696 | 000011 | DRYTP | 011 | DRIVE TYPE |
| | | 800020 | ITANTE | 20 | ITERATION AMOUNT |
| 169 | 000610 | 900224 | VECT | 224 | ; INTERRUPT VECTOR(RH) |
| 170 | 000612 | 172440 | REGS: | 172440 | STARTING REGISTER ADDRESS |
| | | | | | |

TM02/TU16 CONTROL LOGIC TEST NACY11 27(732) 18-MAR-76 13:16 PAGE 5 DZTUCE.P11

| | 171 | | | | IFLAGS | AND | COUNTERSOCCOCCO |
|---|-----|--------|--------|---------|--------|-----|-----------------|
| | 172 | | | | | | |
| | 173 | 000614 | 000000 | TOBS | | | |
| | 174 | 000616 | 000000 | TIBE | | | |
| | 175 | 000620 | 000000 | HDRFL: | | | |
| | 176 | 800622 | 000000 | EMADDR: | 0 | | |
| | 177 | 000624 | 000000 | DRVN: | 0 | | |
| | 178 | 000626 | 00000 | TROOT | | | |
| | 179 | 000630 | 000000 | TRO1: | | | |
| | 180 | 000632 | 000000 | TR02: | | | |
| | 101 | 000634 | 000000 | TROS | | | |
| | 182 | 000636 | 999999 | TRO4: | | | |
| | 183 | 000640 | 000000 | TROS: | | | |
| | 184 | 000642 | 000000 | TRO6: | | | |
| | 185 | 000644 | 000000 | TRO7: | | | |
| | 186 | 900646 | 000000 | TRIOI | 0 | | |
| | 187 | 000650 | 000000 | TRILL | | | |
| | 188 | 000652 | 888888 | TR12: | | | |
| | 189 | 000654 | 000000 | TR131 | | | |
| | 190 | 000656 | 000000 | TR141 | | | |
| | 191 | 000660 | 000000 | TR15: | | | |
| | | | | NRZOF: | | | |
| | 192 | 000662 | 00000 | | | | |
| | 193 | 000664 | 00000 | SLVN: | | | |
| | 194 | 909666 | 000000 | PFLGI | | | |
| | 195 | 000670 | 000000 | RTRN: | 9 | | |
| | 196 | 000672 | 000000 | ERADDI | 0 | | |
| | 197 | 000674 | 00000 | TEMP1 : | 0 | | |
| | 198 | 000676 | 00000 | TEMP2: | 0 | | |
| | 199 | 000700 | 00000 | TEMP3: | • | | |
| | 200 | 000702 | 00000 | ITCHT: | | | |
| | 201 | 000704 | 00000 | BAV11 | 0 | | |
| | 202 | 000706 | 00000 | SAV2: | 0 | | |
| | 203 | 000710 | 00000 | SAV3: | 0 | | |
| | 204 | 000712 | 00000 | SCOLP: | 0 | | |
| | 205 | 000714 | 000000 | ITRLP: | 0 | | |
| | 206 | 000716 | 000000 | EXFL: | 0 | | |
| | 207 | 000720 | 00000 | ATAF | 0 | | |
| | 208 | 000722 | 000000 | SLAF: | 0 | | |
| | 209 | 000724 | 000000 | SSCFI | | | |
| | 210 | 000726 | 000000 | ERRF: | 0 | | |
| | 211 | 000730 | 800000 | ASFI | 0 | | |
| | 212 | 000732 | 900000 | SCFI | 0 | | |
| | 213 | 000734 | 000000 | TREF: | 0 | | |
| | 214 | 000736 | 000000 | PEXFLE | | | |
| | 215 | 000740 | 000000 | STFLG: | 0 | | |
| | 216 | 000742 | 800000 | LTADD: | 0 | | |
| | 217 | 000744 | 000000 | T24FL: | 0 | | |
| | 218 | 000746 | 000000 | ADDFL | 0 | | |
| | 219 | 000750 | 888888 | WAMS | 0 | | |
| | 220 | 600752 | 000000 | PUN: | 0 | | |
| | 221 | 000754 | 000000 | DATE | 0 | | |
| | 222 | 000756 | 000000 | WTAD: | 0 | | |
| | 223 | 000760 | 000000 | DATAD: | 0 | | |
| | 224 | 000762 | 000000 | RDAD: | | | |
| | 225 | 000764 | 000000 | W2FLG: | | | |
| | 226 | 888766 | 000000 | DERFLI | 0 | | |
| m | | | | | | | |

```
DETUCE, P11
  227 600770 800000
                                      PREFLE
  228 888772 888888
                                      SERFLI
  229 000774
               ....
                                      CRCNT:
  230 000776
               800000
                                      UDES:
  231 001000
               999999
                                      WPGFLE
  232
       001002
               999999
                                      PATRN:
  233
       001004
               800000
                                      STATE
  234
       001006
               888888
                                      RDRVF
  235
       001010
               800000
                                      RCDP
  236
       001012 800000
                                      STATC:
       901014 900000
                                      SKAT:
  238
       001016 000000
                                      PCNTR:
                                                             PASS COUNTER
  239
  240
                                              PEXPT WRAP STATUSOGGOOG
  241
       001020
  242
               800000
                                      WC811
  243 001022
               000000
                                      WC821
  244
       001024
               000000
                                      WD8:
  245
       001026 000000
                                      WER:
  246
  247
                                              DATA PATTERN GENERATORS ....
  248
  249 001030 000000
                                      DATBL:
  250 001032 015400
                                      DATAO:
                                             DAT1
                                                      JALL ONE BITS
      001034 015422
  251
                                      DATA1:
                                                      FALL ZERO BITS
                                             DAT2
  252
      001036 015430
                                      DATA2:
                                             DATE
                                                     FALTERNATING ONE/ZERO BITS
  253
       001040 015440
                                      DATASI DAT4
                                                     FALL BITS 0-377
  254
  255
                                             CORE DUMP PATTERNS .....
  256
      001042 000005
  257
                                      WCDP2: 5
  258
      001044 000005
  259 001046 000012
                                             12
  260 001050
              800012
                                             12
  261 001052
              800000
  262 901054
              600017
                                      WCDPB:
                                             17
  263 001056
              800017
                                             17
  264
      001060
              000017
                                             17
  265
      001062
              800017
                                             17
  266 001064
              000000
```

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| 242 | | | | | | | |
|-----|--------|--------|----------|--------|------|-------|-----------------|
| 267 | | | | | | | |
| 268 | | | | POGIC | TEST | ENTRY | TABLESSSSSSSSSS |
| 269 | | | | | | | |
| 270 | 001066 | 000000 | TSTTBLE | | | | |
| 271 | 001070 | 000000 | | | | | |
| 272 | 001072 | 002310 | TIADE | LTI | | | |
| 273 | 001074 | | | | | | |
| | | 002310 | TILADI | LTI | | | |
| 274 | 001076 | 002540 | T2AD: | LT2 | | | |
| 275 | 001100 | 002540 | TZIAD: | LT2 | | | |
| 276 | 001102 | 002746 | TRADE | LT3 | | | |
| 277 | 001104 | 002750 | T3IAD: | LTBIT | | | |
| 278 | 001106 | 003132 | T4AD: | LT4 | | | |
| 279 | 001110 | 003132 | TALADI | LT4 | | | |
| | | | | | | | |
| 280 | 001112 | 003410 | TSAD: | LTS | | | |
| 201 | 001114 | 003416 | TSIAD: | LTSIT | | | |
| 282 | 901116 | 003612 | TEAD: | LT6 | | | |
| 203 | 001120 | 003614 | TOIAD: | LTGIT | | | |
| 284 | 001122 | 004024 | T7AD: | LT7 | | | |
| 285 | 001124 | 004026 | TTIADE | LTTIT | | | |
| 286 | | | | | | | |
| | 001126 | 004150 | TIGADE | LT10 | | | |
| 287 | 001130 | 004152 | TIGIAD: | | | | |
| 288 | 001132 | 804304 | TIIADE | LTII | | | |
| 289 | 001134 | 004306 | T11IAD: | LT11IT | | | |
| 298 | 001136 | 004546 | T12AD: | | | | |
| 291 | 001140 | 004550 | TIZIAD: | | | | |
| 292 | 001142 | 004754 | | | | | |
| | | | TIBADI | | | | |
| 293 | 001144 | 004764 | T13IAD: | | | | |
| 294 | 001146 | 005056 | T14AD: | | | | |
| 295 | 001150 | 005116 | T14IAD: | LT14IT | | | |
| 296 | 001152 | 005166 | T15AD: | LT15 | | | |
| 297 | 001154 | 005226 | TISIAD: | | | | |
| 298 | 001156 | 005276 | T16AD: | LT16 | | | |
| 299 | 001160 | 005336 | TIGIAD: | | | | |
| | | | | | | | |
| 300 | 001162 | 005406 | T17AD: | LT17 | | | |
| 301 | 001164 | 005446 | T17IAD: | | | | |
| 302 | 001166 | 005516 | T20AD: | LT20 | | | |
| 303 | 001170 | 005532 | TZGIAD: | LT20IT | | | |
| 304 | 001172 | 005662 | T21AD: | LT21 | | | |
| 305 | 001174 | 005676 | T21 IAD: | | | | |
| 306 | 001176 | 006026 | T22AD: | LT22 | | | |
| | | | | | | | |
| 307 | 001200 | 006042 | T22IAD: | | | | |
| 308 | 001202 | 006152 | T23AD: | LT23 | | | |
| 309 | 001204 | 006166 | T23IAD: | LT23IT | | | |
| 310 | 001206 | 006302 | T24AD: | LT24 | | | |
| 311 | 001210 | 006316 | T24IAD1 | LT24IT | | | |
| 312 | 001212 | 006626 | T25AD1 | LT25 | | | |
| | | | | | | | |
| 313 | 001214 | 006642 | T251AD: | | | | |
| 314 | 001216 | 006760 | T26AD: | LT26 | | | |
| 315 | 001220 | 206766 | T26IAD: | LT26IT | | | |
| 316 | 001222 | 007174 | T27AD: | LT27 | | | |
| 317 | 001224 | 997220 | T27IAD: | | | | |
| 310 | 001226 | 007312 | TOOADI | LT30 | | | |
| 319 | 001230 | 007334 | | | | | |
| | | | T30IAD: | | | | |
| 320 | 001232 | 007630 | T31AD: | LT31 | | | |
| 321 | 001234 | 007644 | TRITADE | | | | |
| 322 | 001236 | 010160 | T32AD1 | LT32 | | | |
| | | | | | | | |

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| 323 | 601240 | 010174 | T32IAD: | LT32IT |
|-----|--------|--------|---------|--------|
| 324 | 001242 | 010312 | TESADI | LT33 |
| | | | | |
| 325 | 001244 | 010326 | T33IAD: | |
| 326 | 001246 | 010414 | T34AD: | LT34 |
| 327 | 001250 | 010436 | T34IAD1 | |
| 328 | 001252 | 010556 | TISADI | LT35 |
| 329 | 001254 | 010572 | T35IAD: | LT35IT |
| 330 | 001256 | 010730 | T36AD: | LT36 |
| 331 | 001260 | 010744 | T36IAD: | LT36IT |
| 332 | 001262 | 011050 | T37AD: | LT37 |
| 333 | 001264 | 011064 | T37IAD: | |
| 334 | 001266 | 011220 | T40AD: | LT40 |
| 335 | 001270 | 011242 | T40IAD: | |
| 336 | 001272 | 011346 | TALADI | LT41 |
| 337 | 001274 | 011362 | TALIADE | |
| | | | | |
| 338 | 001276 | 011614 | T42AD: | LT42 |
| 339 | 001300 | 011614 | | LT42 |
| 340 | 001302 | 011726 | T43AD: | LT43 |
| 341 | 001304 | 011726 | | LT43 |
| 342 | 001306 | 012010 | T44AD: | LT44 |
| 343 | 001310 | 012010 | | LT44 |
| 344 | 001312 | 012116 | T45AD: | LT45 |
| 345 | 001314 | 012116 | | LT45 |
| 346 | 001316 | 012200 | T46AD: | LT46 |
| 347 | 001320 | 012200 | | LT46 |
| 348 | 001322 | 012306 | T47AD: | LT47 |
| 349 | 001324 | 012306 | | LT47 |
| 350 | 001326 | 012374 | TSOAD: | LTSe |
| 351 | 001330 | 012374 | | LTSO |
| 352 | 001332 | 012502 | T51AD1 | LTS1 |
| 353 | 001334 | 012502 | 191401 | LTS1 |
| | | | | |
| 354 | 001336 | 012564 | T52AD1 | LT52 |
| 355 | 001340 | 012564 | | LT52 |
| 356 | 001342 | 012676 | TS3AD: | LT53 |
| 357 | 001344 | 012676 | | LT53 |
| 350 | 001346 | 013024 | TS4AD: | LT54 |
| 359 | 001350 | 013024 | | LT54 |
| 360 | 001352 | 013074 | TSSAD: | LTSS |
| 361 | 001354 | 013074 | | LT55 |
| 362 | 001356 | 013144 | TSGAD: | LT56 |
| 363 | 001360 | 013144 | | LTS6 |
| 364 | 901362 | 013222 | TS7AD: | LTS7 |
| 365 | 001364 | 013252 | TS7IAD: | |
| 366 | 001366 | 013560 | T66AD: | LT60 |
| 367 | 001370 | 013600 | TOOTADE | |
| 368 | 001372 | 014006 | T61AD: | L761 |
| 369 | 001374 | 614034 | | |
| | | | TELLAD! | |
| 370 | 001376 | 014264 | T62AD1 | LT62 |
| 371 | 001400 | 014312 | T62IAD: | |
| 372 | 001402 | 014536 | T63AD: | LT63 |
| 373 | 001404 | 014564 | T631AD: | |
| 374 | 001406 | 015000 | T64AD: | LT64 |
| 375 | 001410 | 015014 | T64IAD: | LT64IT |
| 376 | 001412 | 000000 | TADX: | 0 |
| | | | | |

| 377 376 | | | | | | .EVEN | RAM START AND HOU | JSEKEEPING |
|------------|------------------|------------------|------------------|--------|--------|-------|-------------------|--|
| 379 | | | | | | | | |
| 300 | 001414 | 012777 | 000340 | 177144 | STARTE | MOV | #346, 0PSW | SET PRIORITY |
| 301 | 001422 | 012706 | 000200 | | | MOA | 1500, SP | ; SET STACK POINTER |
| 303 | 001426 | 013746 | 000006 | | SUSWR: | MOV | 006,-(SP) | SAVE VECTORS |
| 384 | 001432 | 013746 | 000004 | | 000-11 | MOV | 004,-(SP) | (onto tocopie |
| 385 | 001436 | 012737 | 001456 | 000004 | | MOV | 010,004 | JAET UP FOR TIMEOUT |
| 386 | 001444 | 022777 | 177777 | 177116 | | CHP | 0-1,08WR | REFERENCE HARDWARE SWITCH REGISTER |
| 387 | 001452 | 001402 | | | | BEQ | 26 | |
| 300 | 001454 | 000404 | | | | BR | 36 | |
| 389 | 001456 | 022626 | | | 181 | CMP | (8P)+,(8P)+ | ADJUST STACK |
| 390 | 001460 | 012767 | 000176 | 177102 | 281 | MOV | SWREG, SWR | POINT TO SOFTWARE SWITCH REG |
| 391 | 001466 | 012637 | 000004 | | 361 | MOA | (SP)+,004 | RESTORE VECTORS |
| 392 | 001472 | 012637 | 000006 | | | MOA | (SP)+,006 | |
| 393 | 001476 | 022767 | 000176 | 177964 | | CHP | SWREG, SWR | ; IS SWREG SELECTED |
| 394 | 001504 | 001002 | | | | BNE | 46 | |
| 395 | 001506 | 004767 | 023002 | | | JSR | PC, CNTLU | CHECK FOR CONTROL G |
| 396 | 001512 | 005700 | | | 481 | 181 | RO | |
| 397 | 001514 | 001136 | | | | BNE | 812 | |
| 398 | 001516 | 005067 | 177272 | | | CLR | SKAT | CLEAR SKIP ADDRESS TEST FLAG |
| 399 | 001522 | 812784 884767 | 025172 022312 | | | MOV | ##8G1,R4 | |
| 400 | 001526 001532 | 012704 | 027004 | | | JSR | PC,TTOUT | PRINT TITLE |
| 401 | 001536 | 884767 | 022302 | | | JSR | PC, TTOUT | REQUEST REGISTER ADDRESS |
| 403 | 001542 | 016703 | 177044 | | | MOV | REGS, R3 | I weeden wearersk waaren |
| 404 | 001546 | 004767 | 022434 | | | JSR | PC.OCTP | PRINT CURRENT ADDRESS |
| 405 | 001552 | 012705 | 000612 | | | NOV | OREGS, RS | SET ADDRESS SAVE LOC |
| 496 | 001556 | 012701 | 000006 | | | MOV | 06,R1 | ISET SIZE OF RESPONSE |
| 407 | 001562 | 012702 | 176400 | | | NOV | 0176400,R2 | ISET UPPER LIMIT |
| 400 | 001566 | 012703 | 172300 | | | NOV | 0172300,R3 | ISET LOWER LINIT |
| 409 | 801572 | 884767 | 022010 | | | JSR | PC, TTR | IGO GET RESPONSE |
| 410 | 001576 | 012704 | 027026 | | | NOV | #M8G45,R4 | |
| 411 | 001602 | 004767 | 022236 | | | JSR | PC, TTOUT | ; REQUEST VECTOR |
| 412 | 001606 | 016703 | 176776 | | | MOV | VECT, R3 | |
| 413 | 001612 | 884767 | 022370 | | | JSR | PC, OCTP | PRINT CURRENT VECTOR |
| 414 | 001616 | 012705 | 000610 | | | MOV | .VECT, RS | SET ADDRESS SAVE LOC |
| 415 | 001622 | 012701 | 000003 | | | MOA | 03,R1 | SET SIZE OF RESPONSE |
| 416 | 001626 | 012702 | 000224 | | | MOA | #224,R2 | SET UPPER LIMIT |
| 417 | 001632 | 012703 | 000150 | | | MOV | 0150,R3 | SET LOWER LIMIT |
| 410 | 001636 | 804767 | 021744 | | | JSR | PC,TTR | GO GET RESPONSE |
| 419 | 001642 | 816700 | 176742 | | | MOV | VECT, RO | GET VECTOR |
| 420 | 001646 | 012720 | 023570 | | | MOA | eMTINT, (RO)+ | LOAD INTERRUPT ADDRESS IN VECTOR |
| 421 | 001652 | 012710 | 000340 | | | MOV | #340, (RO) | ; LOAD PRIORITY ; GET START OF REGS |
| 422 | 001656 | 016700 | 176738 | | | MOV | REGS, RO | SET NUMBER OF REGS |
| 423 | 001662 | 012701 012702 | 000016 | | | MOV | 016,R1 0C1,R2 | GET START OF TABLE |
| 425 | 001672 | 010022 | 000310 | | 8701 | MOA | R0,(R2)+ | BUILD TABLE |
| 426 | 001674 | 862788 | 000062 | | 0.01 | ADD | 02,R0 | BUMP ADDRESS |
| 427 | 901700 | 005301 | 000002 | | | DEC | R1 | ISEE IF DONE |
| 420 | 001702 | 001373 | | | | BNE | 810 | IF NOTE BR |
| 429 | 001704 | 012702 | 000614 | | | MOV | STOB, R2 | |
| 430 | 001710 | 012700 | 000077 | | | MOV | \$77,R0 | |
| 431 | 001714 | 005022 | | | 8711 | CLR | (R2)+ | CLEAR FLAGS + COUNTERS |
| 432 | 001716 | 005300 | - | | | DEC | 2.0 | |

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| 433 | 001720 | 001375 | | | BNE | 871 | |
|-----|--------|--------|--------|------|-----|------------|---|
| 434 | 001722 | 012704 | 027254 | | MOV | #M8G52,R4 | |
| 435 | 001726 | 004767 | 022112 | | JSR | PC, TTOUT | PRINT NRE ONLY REQUEST |
| 436 | 001732 | 012705 | 000662 | | MOV | ONRZOF, RS | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 437 | 001736 | 812781 | 000001 | | NOV | 01.R1 | SET SIZE OF ENTRY |
| 438 | 001742 | 012702 | 000001 | | NOV | 01,R2 | ISET UPPER LINIT |
| 439 | 001746 | 012703 | 000000 | | NOV | 10,R3 | SET LOWER LIMIT |
| 440 | 001752 | 004767 | 021630 | | JSR | PC, TTR | IGO GET RESPONSE |
| 441 | 001756 | 012704 | 027363 | | NOV | ##8G56,R4 | |
| 442 | 001762 | 884767 | 022956 | | JSR | PC,TTOUT | REQUEST STATIC ONLY |
| 443 | 001766 | 012705 | 001012 | | NOV | #STATC, RS | SET ADDRESS OF STATIC FLAG |
| 444 | 001772 | 012701 | 000001 | | NOV | 01,R1 | ISET SIZE OF RESPONSE |
| 445 | 001776 | 012702 | 000001 | | NOV | 01,R2 | ISET UPPER LIMIT |
| 446 | 002002 | 012703 | 000000 | | MOV | 00,R3 | SET LOWER LIMIT |
| 447 | 002006 | 884767 | 021574 | | JSR | PC, TTR | GET RESPONSE |
| 448 | 002012 | 805067 | 177000 | 8T21 | CLR | PCNTR | CLEAR PASS COUNTER |

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| 449 | | | | | | | | | |
|-----|--------|--------|------------|--|--------|-------|----------------|---|--|
| 450 | | | | | | | SCHEDULAR | | |
| 451 | | | | | | 11001 | SCHEDOPWKAAAAA | | |
| 452 | 002016 | 005067 | 176756 | | TSCD: | CLR | WPGFL | -01710 4010 01004 0110 | |
| 453 | 002022 | 005067 | 176712 | | | CLR | | CLEAR WRAP PATRN FLAG | |
| 454 | 002026 | 017700 | 176536 | | | | STFLG | CLEAR SINGLE TEST PLAG | |
| 455 | 002032 | | 177700 | | | MOV | OSWR, RO | | |
| 456 | 002036 | 005700 | | | | BIC | 6177700,R0 | | |
| 457 | 002040 | 001051 | | | | TST | RO | | |
| 450 | 002042 | 012767 | 001066 | 176672 | | BNE | STSCD | GO SELECT SINGLE TEST | |
| 459 | 002050 | 062767 | 000004 | 176664 | | MOA | OTSTTBL, LTADD | | |
| 460 | 002056 | 016767 | 176660 | 176630 | TSCDOI | ADD | 44,LTADD | | |
| 461 | 002064 | 062767 | 000002 | The same of the sa | | MOV | LTADD, ITRLP | | |
| 462 | 002072 | 005777 | | 176622 | | ADD | 02, ITRLP | SET ITERATION ADDRESS | |
| 463 | 002076 | 001002 | 176644 | | | TST | OLTADD | | |
| 464 | | | | | | SHE | TSCD1 | | |
| | 002100 | 900167 | 000132 | | | JHP | TEND | GO TO END ROUTINE | |
| 465 | 002104 | 005067 | 176510 | | TSCD1: | CLR | HDRFL | CLEAR PRINT HEADER FLAG | |
| | 002110 | 017700 | 176626 | | | MOA | eltadd, Re | SET POINTER TO TEST | |
| 467 | 002114 | 000110 | | | | JMP | (Re) | IGO TO TEST | |
| 468 | 002116 | 004767 | 022320 | | TSCD2: | JSR | PC, CKSWR | CHECK FOR CHIL G | |
| 469 | 002122 | 032777 | 002000 | 176440 | | BIT | #2000, 08WR | JACE IF HALT ON TEST | |
| 470 | 002130 | 001404 | | | | BEQ | TECDS | IF NOTE BR | |
| 471 | 002132 | 004767 | 023024 | | | JSR | PC.STOP | | |
| 472 | 002136 | 005067 | 176636 | | | CLR | WPGFL | CLEAR WRAP DATA GENERATOR FLAG | |
| 473 | 002142 | 005767 | 176572 | | TSCD3: | TST | STFLG | ISE IF SINGLE TEST | |
| 474 | 002146 | 801740 | | | | BEQ | TSCDe | IT NOTE BR | |
| 475 | 002150 | 017700 | 176414 | | | MOV | OSWR, RO | | |
| 476 | 002154 | 942700 | 177700 | | | BIC | #177700,R0 | MASK TEST NUMBER | |
| 477 | 002160 | 005700 | | | | TST | RO | ISEE IF RETURN TO ALL | |
| 478 | 002162 | 001715 | ICA STREET | | | BEQ | TSCD | IIF SOI BR | |
| 479 | 002164 | 012767 | 000001 | 176546 | STSCDE | MOA | #1,STFLG | ISET SINGLE TEST PLAG | |
| 480 | 802172 | 822788 | 000065 | | | CHP | 065,R0 | ISEE IF EXCEEDED TESTS | |
| 481 | 002176 | 003417 | | | | BLE | TEND | IT SOL BR | |
| 482 | 002200 | 000241 | | | | CLC | | | |
| 483 | 002202 | 006100 | | | | ROL | RO | | |
| 484 | 002204 | 996199 | | | | ROL | RO | SET TABLE MODIFIER | |
| 485 | 002206 | 012767 | 001066 | 176526 | | MOV | eTSTTBL, LTADD | | |
| 486 | 002214 | 969967 | 176522 | | | ADD | RO, LTADD | ISET TEST POINTER | |
| 487 | 002220 | 016767 | 176516 | 176466 | | MOA | LTADD, ITRLP | | |
| 488 | 002226 | 062767 | 808082 | 176460 | | ADD | 02,ITRLP | SET ITERATION POINTER | |
| 489 | 002234 | 000723 | | | | BR | TSCD1 | | |
| 490 | 002236 | 012704 | 026644 | | TEND: | NOV | 8M8G41,R4 | | |
| 491 | 002242 | 884767 | 021576 | | | JSR | PC, TTOUT | PRINT END OF PASS | |
| 492 | 002246 | 016703 | 176544 | | | MOV | PCNTR, R3 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 493 | 002252 | 884767 | 021730 | | | JSR | PC, OCTP | PRINT PASS NUMBER | |
| 494 | 002256 | 032777 | 004000 | 176304 | | BIT | 44000,08WR | ISEE IF HALT ON PASS | |
| 495 | 002264 | 001002 | | | | BNE | TENDX | IF NOT: BR | |
| 496 | 002266 | 004767 | 022670 | | | JSR | PC, STOP | 10. 0011 01 | |
| 497 | 002272 | 012767 | 000001 | 176514 | TENDX: | MOV | 01,8KAT | SET SKIP ADDRESS TEST FLAG | |
| 498 | 002300 | 005267 | 176512 | | | INC | | | |
| 499 | 002304 | 800167 | | | | | | | |
| | | | 177506 | | | JMP | PCNTR | BUMP PASS COUNTER RESTART | |

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| 500 | | | | | | LOGI | C TEST 1: DRIVE | DRESSING |
|--|--------|--------|--------|--------|---------|------|-----------------|---------------------------|
| 502 | 002310 | 805767 | 176500 | | LTII | TST | SKAT | |
| 503 | 002314 | 001403 | | | | BEQ | LTIGO | ISEE IF SKIP ADDRESS TEST |
| 504 | 002316 | 005767 | 176416 | | | 787 | STFLG | IT NOT: BR |
| 505 | 002322 | 001504 | | | | BEQ | | SEE IF SINGLE TEST |
| 506 | 002324 | 012704 | 025315 | | | | LTIX | ; IF NOT: BR |
| 507 | 002330 | 004767 | 021510 | | LTIGO | MOV | MBG2A,R4 | |
| 500 | 002334 | 012767 | | | | JSR | PC, TTOUT | PRINT TEST INSTRUCTIONS |
| 509 | 002342 | | 027410 | 176260 | LT1G: | MOA | SHELTI, EMADDR | SET HEADER ADDRESS |
| The state of the s | | 012704 | 025276 | | | MOA | MBG2,R4 | |
| 510 | 002346 | 884767 | 021472 | | | JSR | PC,TTOUT | REQUEST DRIVE NUMBER |
| 511 | 002352 | 012705 | 000624 | | | MOA | ODRVN, RS | |
| 512 | 002356 | 012701 | 000001 | | | NOA | 01,R1 | |
| 513 | 002362 | 012702 | 000007 | | | MOA | 07,R2 | |
| 514 | 002366 | 012703 | 000000 | | | VON | 00,R3 | |
| 515 | 002372 | 884767 | 621216 | | | JSR | PC,TTR | GET DRIVE NUMBER |
| 516 | 002376 | 005767 | 176272 | | | TST | TENP1 | SEE IF ANOTHER DRIVE |
| 517 | 002402 | 001454 | | | | BEQ | LT1X | IF NOTE BR |
| 518 | 002404 | 005001 | | | | CLR | R1 | SELECT DRIVE . |
| 519 | 002406 | 012700 | 000010 | | | NOV | 010,R0 | SET NUMBER OF DRIVES |
| 520 | 002412 | 012777 | 000040 | 176100 | LTIAL | NOV | 040,0C8 | INIT |
| 521 | 002420 | 010177 | 176074 | | | MOY | R1,0C8 | SELECT DRIVE |
| 522 | 002424 | 805777 | 176060 | | | 787 | 0C1 | ACCESS DRIVE |
| 523 | 002430 | 032777 | 010000 | 176062 | | BIT | 010000,0C8 | ISEE IF NED |
| 524 | 002436 | 801005 | | | | BNE | LTIB | IF SOL BR |
| 525 | 002440 | 026701 | 176160 | | | CHP | DRYN, R1 | |
| 526 | 002444 | 001407 | | | | BEQ | LTIC | ISEE IF SHOULD BE NED |
| 527 | 002446 | 000167 | 000022 | | | JNP | LTIER | ; IF NOT; BR |
| 528 | 002452 | 026701 | 176146 | | LT18: | CHP | DRVN, R1 | JELSE GO TO ERROR |
| 529 | 002456 | 001002 | | | 2.10. | BNE | | SEE IF SHOULD BE NED |
| 530 | 002460 | 800167 | 000020 | | | - | LTIC | ; IF 80; BR |
| 531 | 002464 | 005300 | 200000 | | 1.710. | JMP | LTIERI | ;ELSE GO TO ERROR |
| 532 | 002466 | 001722 | | | LT1C: | DEC | RØ | |
| 533 | 002470 | 005201 | | | | BEQ | LTIG | ; IF DONE ALL: BR |
| 534 | 002472 | 800747 | | | | INC | R1 | SELECT NEXT DRIVE |
| 535 | 002474 | | 000004 | | | BR | LTIA | CONTINUE |
| | | 012767 | 000001 | 176214 | LT1ER: | MOA | 01,EXFL | PLAG EXPT |
| 536 | 002502 | 000403 | | | | BR | LT1ER2 | |
| 537 | 002504 | 012767 | 000002 | 176204 | LTIERII | | 02,EXFL | FLAG NOT EXPT |
| 538 | 002512 | 012767 | 025444 | 176152 | LT1ER2: | MOV | MSG3, ERADD | FLAG CONDITION |
| 539 | 002520 | 012767 | 002412 | 176164 | | MOV | OLTIA, SCOLP | SET SCOPE ADDRESS |
| 540 | 002526 | 004767 | 017262 | | | JSR | PC, LTGER | GO PRINT LOGIC TEST ERROR |
| 541 | 002532 | 800754 | | | | BR | LTIC | CONTINUE TEST |
| 542 | 002534 | 999167 | 177356 | | LT1X: | JMP | TSCD2 | RETURN TO SCHED |
| 543 | | | | | | | | |

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| 544 | | | | | | LOGIC | TEST 2: REGISTER | ADDRESSING |
|-----|--------|--------|--------|--------|---------|--|------------------|-------------------------------|
| 545 | | | | | | | | |
| 546 | 002540 | 000240 | | | LT21 | NOP | | |
| 547 | 002542 | 012777 | 000040 | 175750 | TLSIL! | MOV | #40,0C8 | INIT |
| 548 | 002550 | 016777 | 176050 | 175742 | | MOA | DRVN, OCS | SELECT DRIVE |
| 549 | 002556 | 012767 | 027464 | 176036 | | MOV | #MSLT2, EMADDR | ; SAVE LT2 HEADER ADDRESS |
| 550 | 002564 | 012705 | 000510 | | | MOV | #C1,R5 | SET ADDRESS OF FIRST REGISTER |
| 551 | 002570 | 012700 | 000016 | | | MOV | 016,R0 | SET NUMBER OF REGISTERS |
| 552 | 002574 | 012702 | 000626 | | | MOY | #TR00, R2 | ISET START OF REGISTER BUFFER |
| 553 | 002600 | 011501 | | | LT2A: | NOV | (R5),R1 | |
| 554 | 002602 | 011112 | | | | MOV | (R1),(R2) | READ REGISTER |
| 555 | 002604 | 032777 | 020000 | 175676 | | BIT | #20000, OC1 | SEE IF ERROR |
| 556 | 002612 | 001402 | | | | BEQ | LT28 | IF NOT: BR |
| 557 | 002614 | 004767 | 000024 | | | JSR | PC, LT2ER1 | ELSE GO TO ERROR 1 |
| 558 | 002620 | 032777 | 000002 | 175676 | LT2B: | BIT | 02,0ER | ISEE IF ILR |
| 559 | 002626 | 001402 | | | | BEQ | LT2C | IF NOT: BR |
| 560 | 002630 | 004767 | 000026 | | | JSR | PC, LT2ER2 | JELSE GO TO ERROR 2 |
| 561 | 002634 | 022225 | | | LT2C: | CMP | (R2)+,(R5)+ | BUMP ADDRESS |
| 562 | 002636 | 005300 | | | | DEC | RO | 100m morroo |
| 563 | 002640 | 001357 | | | | BNE | LT2A | CONTINUE FOR ALL REGISTERS |
| 564 | 002642 | 000435 | | | | BR | LT2X | Leaves tok was kearstown |
| 565 | 002644 | 012767 | 000002 | 176044 | LT2ER1: | MOV | #2,EXFL | FLAG NOT EXPECTED |
| 566 | 002652 | 012767 | 025466 | 176012 | D | MOV | MAG4, ERADD | POINT TO CONTROLLER ERROR |
| 567 | 002660 | 000415 | 020400 | | | BR | LT2ERG | GO TO ERROR |
| 568 | 002662 | 012767 | 000002 | 176026 | LT2ER2: | | #2,EXFL | |
| 569 | 902670 | 812767 | 025504 | 175774 | MISEKS. | MOY | MAGS, ERADD | FLAG NOT EXPECTED |
| 570 | 002676 | 800406 | 820384 | 1,9114 | | The state of the s | | POINT TO DRIVE ERROR |
| 571 | 602760 | 012767 | 000001 | 176010 | | BR | LTZERG | GO TO ERROR |
| 572 | | | 000001 | 176010 | LT2ER3: | | 01,EXFL | PLAG EXPECTED |
| | 002706 | 012767 | 025466 | 175756 | | MOV | #M8G4, ERADD | POINT TO DRIVE |
| 573 | 002714 | 012767 | 002730 | 175770 | LT2ERG: | | eLT2LP, SCOLP | SET SCOPE ADDRESS |
| 574 | 002722 | 004767 | 017066 | | | JSR | PC, LTGER | GO PRINT |
| 575 | 002726 | 000207 | | | | RTS | PC | ;ELSE CONTINUE |
| 576 | 002730 | 905726 | | | LT2LP: | 181 | (SP)+ | RESET STACK |
| 577 | 002732 | 000167 | 177642 | | | JMP | LT2A | 1 LOOP |
| 578 | 002736 | 004767 | 020456 | - | LT2X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 579 | 002742 | 000167 | 177150 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 500 | | | | | | POGIC | TEST 3: CONTROL | BU800000000 |
|-----|------------------|--------|--------|--------|---------|-------|-----------------|-----------------------------|
| 501 | 883944 | 000340 | | | | | | |
| 502 | 002746 002750 | 000240 | | | LT31 | NOP | | |
| | | 012767 | 027543 | 175644 | LT3IT: | MOA | MALTS, EMADDR | SET TEST HEADER |
| 504 | 002756 | 012701 | 000001 | | | MOA | 01,R1 | PRESET PATTERN 1 |
| 505 | 002762 | 012700 | 000020 | | | MOA | 020, RO | SET PATTERN CHANGE NUMBER |
| 506 | 902766 | 004767 | 020510 | | LTSA | JER | PC.INIT1 | IGO INIT |
| 587 | 002772 | 010177 | 175520 | | | MOA | R1, OFC | WRITE TO FC |
| 588 | 002776 | 032777 | 000010 | 175520 | | BIT | 010,0ER | ;SEE IF CPAR (THO2) |
| 509 | 003004 | 001013 | | | | BNE | LT3ER1 | 11F 80; BR |
| 590 | 003006 | 017702 | 175504 | | LT3B: | MOV | OFC,R2 | READ FC |
| 591 | 003012 | 032777 | 020000 | 175470 | | BIT | 020000,0C1 | ;SEE IF MCPE (RH) |
| 592 | 003020 | 001020 | | | | BNE | LT3ER2 | ; IF 80; BR |
| 593 | 003022 | 005300 | | | LT3C: | DEC | RO | SEE IF DONE PATTERN CHANGES |
| 594 | 003024 | 001427 | | | | BEQ | LT3X | 11F 801 BR |
| 595 | 003026 | 000241 | | | | CLC | | |
| 596 | 003030 | 006101 | | | | ROL | RI | CHANGE PATTERN |
| 597 | 003032 | 000755 | | | | BR | LT3A | CONTINUE |
| 598 | 003034 | 012767 | 025775 | 175630 | LT3ER11 | MOV | #MSG11, ERADD | SET ERROR CODE |
| 599 | 003042 | 012767 | 002766 | 175642 | | MOV | #LT3A, SCOLP | SET SCOPE ADDRESS |
| 600 | 003050 | 017702 | 175442 | | | NOV | OFC.R2 | GET DATA |
| 601 | 003054 | 094767 | 020074 | | | JSR | PC, LTGER1 | 1GO DO ERROR |
| 602 | 003060 | 000752 | | | | BR | LT3B | 100 DO DENOT |
| 603 | 003062 | 012767 | 925751 | 175602 | LT3ER2: | NOV | MAGIO, ERADD | ISET ERROR CODE |
| 604 | 003070 | 012767 | 003006 | 175614 | | MOV | eLT3B, SCOLP | ISET SCOPE ADDRESS |
| 605 | 003076 | 004767 | 020052 | | | JBR | PC.LTGER1 | IGO DO ERROR |
| 606 | 003102 | 888747 | | | | BR | LT3C | Lan Da Bush |
| 607 | 003104 | 105701 | | | LTIXI | TATE | RI | ISEE IF DONE PATTERN 2 |
| 608 | 003106 | 100405 | | | D1341 | BMI | LT3XX | |
| 609 | 003110 | 012701 | 000401 | | | - | | IF SO! BR |
| 610 | | 012700 | | | | MOY | 0401,R1 | SET PATTERN 2 |
| | 003114 | | 000010 | | | MOV | 910, R0 | SET PATTERN CHANGE NUMBER |
| 611 | 003120 | 000722 | 424272 | | | BR | LT3A | DO PATTERN 2 |
| 612 | 003122 | 004767 | 020272 | | LT3XXI | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 613 | 003126 | 000167 | 176764 | | | JMP | TSCD2 | RETURN TO SCHEDULAR |

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| 614 | | | | | | -1.0GT/ | - | DDRESSING |
|-----|--------|--------|--------|--------|---------|---------|------------------|----------------------------|
| | | | | | | Innati | TIEST 41 STAAF W | DDKF991u@aaaaaaaa |
| 616 | 443133 | 805767 | | | | | | |
| | 003132 | | 175656 | | LT41 | TST | SKAT | ISEE IF SKIP ADDRESS TESTS |
| 610 | 003136 | 001403 | | | | BEQ | LT4Ge | ; IF NOT: BR |
| 619 | 003140 | 005767 | 175574 | | | 181 | STPLG | ISEE IF SINGLE TEST |
| 620 | 003144 | 001517 | | | | BEQ | LT4X | ; IF NOT: BR |
| 621 | 003146 | 012704 | 025600 | | LT4G0: | MOA | MAGGA, R4 | |
| 622 | 003152 | 004767 | 020666 | | | JSR | PC,TTOUT | PRINT TEST INSTRUCTIONS |
| 623 | 003156 | 012704 | 025561 | | LT4G: | MOA | MAGO, R4 | |
| 624 | 003162 | 884767 | 020656 | | | JSR | PC, TTOUT | REQUEST SLAVE |
| 625 | 003166 | 012705 | 000664 | | | MOA | #SLVN, RS | |
| 626 | 003172 | 012701 | 000001 | | | MOA | 01,R1 | |
| 627 | 003176 | 012702 | 909097 | | | MOV | 07,R2 | |
| 628 | 003202 | 012703 | 000000 | | | MOA | 00,R3 | |
| 629 | 003206 | 004767 | 020374 | | | JSR | PC,TTR | GET SLAVE NUMBER |
| 630 | 003212 | 805767 | 175456 | | | TST | TENP1 | ISEE IF SLAVE |
| 631 | 003216 | 001472 | | | | BEO | LT4X | SIF NOTE BR |
| 632 | 003220 | 005001 | | | | CLR | R1 | SELECT SLAVE . |
| 633 | 003222 | 012700 | 000010 | | | NOV | 010,R0 | SET NUMBER OF SLAVES |
| 634 | 003226 | 012777 | 000040 | 175264 | LT4A: | MOV | 840,0C8 | INIT |
| 635 | 003234 | 016777 | 175364 | 175256 | | MOY | DRYN, OCS | SELECT DRIVE |
| 636 | 003242 | 010177 | 175274 | | | MOY | R1, OTC | SELECT SLAVE |
| 637 | 003246 | 017703 | 175264 | | | MOY | ODT, R3 | GET DT |
| 630 | 003252 | 020167 | 175406 | | | CHP | R1, SLVN | SEE IF SHOULD HAVE SPR |
| 639 | 003256 | 001405 | | | | BEQ | LT4B | IF SO: BR |
| 640 | 003260 | 032703 | 002000 | | | BIT | #2000,R3 | ISEE IF SPR |
| 641 | 003264 | 001417 | 002000 | | | BEQ | LT4D | :IF NOT: BR |
| 642 | 003266 | 888167 | 000044 | | | JHP | LT4ER1 | GO TO ERROR 1 |
| 643 | 003272 | 032703 | 002000 | | LT4B: | BIT | #2000,R3 | SEE IF SPR |
| 644 | 003276 | 001002 | 992999 | | nidal | BNE | | |
| 645 | 003300 | 888167 | 000042 | | | | LT4C | IF SOI BR |
| 646 | 003304 | | 000042 | | | JMP | LT4ER2 | ELSE GO TO ERROR |
| | | 012704 | 026466 | | LT4C: | MOV | #M8G30,R4 | |
| 647 | 003310 | 004767 | 020530 | | | JSR | PC,TTOUT | PRINT SERIAL NUMBER TAG |
| 648 | 003314 | 017703 | 175220 | | | MOA | 08N,R3 | |
| 649 | 203320 | 004767 | 021534 | | | JSR | PC. SNPT | PRINT SERIAL NUMBER |
| 650 | 003324 | 005300 | | | LT4D: | DEC | RØ | |
| 651 | 003326 | 001713 | | | | BEO | LT4G | IF DONE ALLE BR |
| 652 | 003330 | 005201 | | | | INC | R1 | BUMP SLAVE |
| 653 | 003332 | 000167 | 177670 | | | JMP | LT4A | CONTINUE |
| 654 | 003336 | 012767 | 000001 | 175352 | LT4ER11 | | #1,EXFL | FLAG EXPT: NOT RECEIVED |
| 655 | 003344 | 000403 | | | | BR | LT4ERG | |
| 656 | 003346 | 012767 | 999992 | 175342 | LT4ER21 | MOA | #2,EXFL | ;FLAG RECVD: NOT EXPT |
| 657 | 003354 | 012767 | 027625 | 175240 | LT4ERG: | | MSLT4, EMADDR | SET LT4 HEADER |
| 658 | 003362 | 912767 | 025727 | 175302 | | MOV | SHSG9, ERADD | SET ERROR CONDITION |
| 659 | 003370 | 012767 | 003226 | 175314 | | MOV | SLT4A, SCOLP | SET SCOPE ADDRESS |
| 660 | 003376 | 884767 | 016412 | | | JSR | PC, LTGER | GO TO ERROR |
| 661 | 003402 | 888758 | | | | BR | LT4D | IF NO SCOPE, BR |
| 662 | 003404 | 800167 | 176506 | | LT4X: | JMP | TSCD2 | RETURN TO SCHED |
| 663 | | | | | | | | |

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| 664 | | | | | | LOGI | C TEST 5: MAINTEN | ANCE REGISTER BIT TEST |
|-----|--------|--------|--------|--------|---------|------|-------------------|------------------------|
| 665 | | | | | | | | |
| 666 | 003410 | 012767 | 027704 | 175204 | LT51 | MOV | #MSLTS, EMADDR | SET TEST HEADER |
| 667 | 003416 | 004767 | 020060 | | LTSIT: | J8R | PC, INIT1 | GO INIT |
| 668 | 003422 | 012700 | 000032 | | | MOV | 032,R0 | SET LOOP FOR BITS 4-8 |
| 669 | 203426 | 005001 | | | | CLR | R1 | ; SET TEST WORD |
| 670 | | 010177 | 175100 | | LTSA | VOM | R1,0MR | SEND TEST WORD TO MR |
| 671 | 003434 | 017702 | 175074 | | | MOV | OMR, R2 | ; READ MR |
| 672 | 003440 | 042702 | 177740 | | | BIC | #177740,R2 | MASK BITS 4-0 |
| 673 | 003444 | 020102 | | | | CMP | R1, R2 | ; SEE IF EXPT . RECVD |
| 674 | 003446 | 001402 | | | | BEQ | LTSB | ; IF 80; BR |
| 675 | 003450 | 000167 | 000056 | | | JMP | LTSER1 | ELSE GO TO ERROR 1 |
| 676 | 003454 | 005300 | | | LTSB: | DEC | RO | |
| 677 | 003456 | 001402 | | | | BEQ | LTSC | ; IF DONE LOOP: BR |
| 678 | 003460 | 005201 | | | | INC | R1 | BUMP TEST WORD |
| 679 | 003462 | 800762 | | | | BR | LTSA | CONTINUE LOOP |
| 680 | 003464 | 012701 | 000015 | | LTSC: | MOV | #15,R1 | SET TEST WORD + WAM 3 |
| 681 | 003470 | 012700 | 001000 | | | MOV | #1000,R0 | SET LOOP FOR BITS 15-7 |
| 682 | 003474 | 010177 | 175034 | | LTSD: | MOV | R1, OMR | LOAD MR |
| 683 | 003500 | 017702 | 175030 | | | MOV | OMR, R2 | PREAD MR |
| 684 | 003504 | 042702 | 000140 | | | BIC | 0140,R2 | MASK OUT BITS 5,6 |
| 685 | 003510 | 020102 | | | | CMP | R1, R2 | SEE IF EXPT . RECVD |
| 686 | 003512 | 001402 | | | | BEQ | LTSE | 11F 801 BR |
| 687 | 003514 | 000167 | 000036 | | | JMP | LTSER2 | ELSE GO TO ERR 2 |
| 688 | 003520 | 005300 | 00000 | | LTSE | DEC | RO | lease on to sky ? |
| 689 | 003522 | 001427 | | | 0.50. | BEQ | LT5X | IF DONE LOOP! BR |
| 690 | 003524 | 062701 | 000200 | | | ADD | #200,R1 | BUMP TEST WORD |
| 691 | 003530 | 000761 | 000200 | | | BR | LTSD | CONTINUE LOOP |
| 692 | 003532 | 012767 | 026040 | 175132 | LTSER11 | | #MSG14, ERADD | SET ERROR CODE |
| 693 | 003540 | 012767 | 003430 | 175144 | PISEKII | MOV | *LTSA, SCOLP | SET SCOPE ADDRESS |
| 694 | 003546 | 004767 | 017402 | 1,2144 | | JSR | PC, LTGER1 | GO TO ERROR |
| 695 | 003552 | 000167 | 177676 | | | JMP | LTSB | |
| 696 | 003556 | 012767 | 026055 | 175106 | | | | CONTINUE |
| | | | | | LTSER2: | | #MSG15, ERADD | SET ERROR CODE |
| 697 | 003564 | 012767 | 003474 | 175120 | | MOV | #LTSD, SCOLP | ; SET SCOPE ADDRESS |
| 698 | 003572 | 004767 | 017356 | | | JSR | PC, LTGER1 | GO TO ERROR |
| 699 | 003576 | 000167 | 177716 | | | JMP | LTSE | CONTINUE |
| 700 | 003602 | 004767 | 017612 | | LT5X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 701 | 003606 | 000167 | 176304 | | | JMP | T8CD2 | RETURN TO SCHED |
| 702 | | | | | | | | |

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| 763 | | | | | | LOGIC | TEST 6: TC REGIS | TER BIT TEST |
|-----|--------|------------------|--------|--------|---------|-------|------------------|-----------------------|
| 705 | 003612 | 000240 | | | LT61 | NOP | | |
| 706 | 003614 | 012767 | 027750 | 175000 | LTGITE | MOV | MSLT6, EMADDR | POINT TO LTG HEADER |
| 797 | 003622 | 012700 | 000003 | 1,2000 | | NOV | #3, RO | |
| 700 | 003626 | 005001 | 000003 | | LT6A1: | CLR | R1 | SET NUMBER OF TESTS |
| 709 | 003630 | 004767 | 017646 | | LT6A: | JSR | | -00 - |
| 710 | 003634 | 010177 | 174702 | | LT6B: | MOV | PC, INIT1 | GO INIT |
| 711 | 903640 | 017702 | 174676 | | PIODI | HOV | R1, OTC | WRITE TC |
| 712 | 003644 | 042702 | 160000 | | | | OTC,R2 | FREAD TC |
| 713 | 003650 | 020102 | 100000 | | | BIC | #160000,R2 | MASK OUT TON |
| 714 | 003652 | | | | | CMP | R1, R2 | ; SEE IF EXPT - RECYD |
| 715 | 003654 | 901402 | 000034 | | | BEQ | LTCC | 11F 801 BR |
| 716 | 003660 | 000167 032777 | 000036 | | | JMP | LT6ER1 | ;ELSE GO TO ERROR |
| | | | 929999 | 174654 | LT6C: | BIT | \$20000, OTC | ISEE IF TOW SET |
| 717 | 003666 | 801002 | 000044 | | | BNE | LTGD | 11F 801 BR |
| | 003670 | 000167 | 000046 | | | JMP | LT6ER2 | ;ELSE GO TO ERROR |
| 719 | 003674 | 005300 | | | LT6D: | DEC | RO | |
| 720 | 003676 | 001446 | | | | BEQ | LT6X | FIF DONE ALLE BR |
| 721 | 093700 | 022700 | 999991 | | | CMP | 01,R0 | ISEE IF RESET TEST |
| 722 | 003704 | 001750 | | | | 950 | LT6A1 | ; IF 80: BR |
| 723 | 003706 | 012701 | 017777 | | | MOV | 017777,R1 | SET TEST WORD |
| 724 | 003712 | 000167 | 177712 | | | JNP | LTGA | DO SET TEST |
| 725 | 003716 | 012767 | 026117 | 174746 | LTGER1: | | #M8G18, ERADD | SET ERROR CODE |
| 726 | 003724 | 012767 | 003634 | 174760 | | MOA | eLT6B, SCOLP | SET SCOPE ADDRES |
| 727 | 003732 | 804767 | 017216 | | | JSR | PC, LTGER1 | GO TO ERROR |
| 720 | 003736 | 000167 | 177716 | | | JMP | LTGC | CONTINUE |
| 729 | 003742 | 012767 | 026103 | 174722 | LT6ER21 | | #MSG17, ERADD | SET ERROR CODE |
| 730 | 003750 | 010167 | 174730 | | | MOV | R1, SAV1 | ; SAVE R1 |
| 731 | 003754 | 012701 | 000001 | | | MOV | #1,R1 | # SET EXPT = 1 |
| 732 | 003760 | 005002 | | | | CLR | R2 | ;SET RECVD . 0 |
| 733 | 003762 | 012767 | 004004 | 174722 | | MOA | *LTGER4, SCOLP | SET SCOPE ADDRESS |
| 734 | 003770 | 884767 | 017160 | | | JSR | PC, LTGER1 | GO TO ERROR |
| 735 | 003774 | 016701 | 174704 | | | MOA | SAV1,R1 | |
| 736 | 004000 | 000167 | 177670 | | | JMP | LT6D | ; ELSE CONTINUE |
| 737 | 004004 | 005077 | 174532 | | LTGER4: | CLR | OTC . | WRITE TO TC |
| 730 | 004010 | 900167 | 177644 | | | JMP | LTGC | JLOOP ON ERROR |
| 739 | 004014 | 004767 | 017400 | | LT6X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 740 | 004020 | 900167 | 176972 | | | JMP | TSCD2 | RETURN TO SCHED |
| 741 | | | | | | | | |

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| 742 743 | | | | | | | TEST 7: FRAME CO | DUNT BIT TEST |
|------------|--------|--------|--------|--------|---------|-----|------------------|----------------------|
| 744 | 004024 | 000240 | | | LT7: | NOP | | |
| 745 | 004026 | 012700 | 000003 | | LT7IT: | MOV | #3,R0 | SET TEST NUMBER |
| 746 | 004032 | 812767 | 030014 | 174562 | LT7C1 | VOM | *MSLT7, EMADDR | SET TEST HEADER |
| 747 | 004040 | 005001 | | | | CLR | R1 | SET TEST WORD |
| 748 | 004042 | 884767 | 017434 | | LT7A: | JSR | PC, INIT1 | GO INIT |
| 749 | 004046 | 010177 | 174444 | | | MOV | R1, OFC | CLEAR FRAME COUNT |
| 750 | 004052 | 017702 | 174440 | | | NOV | OFC,R2 | IREAD FC |
| 751 | 004056 | 020102 | | | | CHP | R1, R2 | SEE IF EXPT - RECVD |
| 752 | 004060 | 001402 | | | | BEO | LT78 | 117 801 BR |
| 753 | 004062 | 000167 | 000022 | | | JMP | LTTERI | ELSE GO TO ERROR |
| 754 | 004066 | 005300 | | | LT78: | DEC | RO | SEE IF DONE ALL |
| 755 | 004070 | 001421 | | | | BEQ | LT7X | 117 801 BR |
| 756 | 004072 | 822788 | 000001 | | | CMP | 01,R0 | SEE IF RESET TEST |
| 757 | 004076 | 001755 | | | | BEQ | LT7C | 117 801 BR |
| 758 | 004100 | 012701 | 177777 | | | MOV | 0-1.R1 | SET TEST WORD TO -1 |
| 759 | 004104 | 000167 | 177732 | | | JMP | LT7A | CONTINUE |
| 760 | 004110 | 012767 | 026136 | 174554 | LT7ER1: | MOV | MAG19, ERADD | SET ERROR CODE |
| 761 | 004116 | 012767 | 004042 | 174566 | | MOV | *LT7A, SCOLP | SET SCOPE ADDRESS |
| 762 | 004124 | 004767 | 017024 | | | JSR | PC, LTGER1 | GO PRINT ERROR |
| 763 | 004130 | 800167 | 177732 | | | JMP | LT78 | ELSE CONTINUE |
| 764 | 004134 | 012700 | 000003 | | LT7X1 | MOV | 13,R0 | |
| 765 | 004140 | 004767 | 017254 | | MITAL | JSR | PC, ITER | RESET TEST ANT |
| 766 | 004144 | 888167 | 175746 | | | JMP | TSCD2 | GO SEE IF ITERATIONS |
| 767 | 204144 | | | | | OMP | 1000 | RETURN TO SCHED |

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| 768 769 | | | | | | PLOGIC | TEST 10: FUNCTIO | N CODE BIT TEST |
|------------|--------|--------|--------|--------|---------|--------|------------------|----------------------|
| 770 | 004150 | 000240 | | | LT10: | NOP | | |
| 771 | 004152 | 012767 | 030060 | 174442 | LTIGITE | MOV | MSLT10, EMADDR | SET TEST HEADER |
| 772 | 004160 | 012700 | 000003 | | | NOV | \$3,R0 | SET NUMBER OF TESTS |
| 773 | 004164 | 005001 | 000003 | | LTIGALI | CLR | RI | |
| 774 | 994166 | 012777 | 000040 | 174324 | LTIGAL | MOV | | SET TEST WORRD |
| 775 | 004174 | 016777 | 174424 | 174316 | PITONI | MOV | 040.0C8 | INIT |
| 776 | | | | 114310 | | | DRVN, OCS | SELECT DRIVE |
| | 004202 | 010177 | 174302 | | | MOA | R1,0C1 | JURITE C1 |
| 777 | 004206 | 017702 | 174276 | | | MOY | 0C1,R2 | FREAD C1 |
| 778 | 004212 | 042702 | 177701 | | | BIC | 0177701,R2 | MASK FUNCTION CODE |
| 779 | 004216 | 020102 | | | | CHP | R1, R2 | ISEE IF EXPT - RECYD |
| 786 | 004220 | 001402 | | | | BEQ | LT108 | 11F 801 BR |
| 781 | 004222 | 800167 | 000022 | | | JMP | LTIGEI | FELSE GO TO ERROR |
| 782 | 004226 | 005300 | | | LT10B: | DEC | RO | |
| 783 | 004230 | 001421 | | | | BEQ | LTIOX | ; IF DONE ALL: BR |
| 784 | 004232 | 922700 | 909991 | | | CMP | #1,R0 | ISEE IF RESET TEST |
| 785 | 004236 | 001752 | | | | BEQ | LT10A1 | ; IF 80; BR |
| 786 | 004240 | 012701 | 000076 | | | MOA | 076,R1 | SET TEST WORD |
| 787 | 004244 | 800167 | 177716 | | | JMP | LTICA | IDO SET TEST |
| 788 | 884258 | 012767 | 026155 | 174414 | LTIGETT | MOV | #MSG20, ERADD | SET ERROR CODE |
| 789 | 004256 | 012767 | 004166 | 174426 | | MOV | eLT10A, SCOLP | ISET SCOPE ADDRESS |
| 790 | 984264 | 004767 | 016664 | | | JSR | PC, LTGER1 | GO PRINT ERROR |
| 791 | 004270 | 000167 | 177732 | | | JMP | LT10B | ELSE CONTINUE |
| 792 | 004274 | 884767 | 017120 | | LT10X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 793 | 004300 | 000167 | 175612 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 794 795 796 | | | | | | LOGIC | TEST 11: GO BIT | SET RESET |
|-------------------|--------|--------|--------|--------|---------|-------|-----------------|----------------------|
| 797 | | 808248 | | | LT111 | NOP | | |
| 798 | | 012767 | 030133 | 174306 | LTILITE | - | OMSLT11, EMADDR | SET TEST HEADER |
| 799 | | 884767 | 017162 | 214300 | | JSR | PC, INIT1 | GO INIT |
| 800 | | 017702 | 174164 | | | MOV | 0C1,R2 | READ C1 |
| 801 | | 032702 | 000001 | | | BIT | 01,R2 | SEE IF GOOD |
| 802 | | 001402 | 000001 | | | BEQ | LTIIB | 11F 801 BR |
| 803 | | 000167 | 000066 | | | JMP | LTITET | ELSE GO TO ERROR 1 |
| 804 | | 012777 | 000015 | 174170 | LT11BI | MOV | 015,0MR | SELECT WAN 3 |
| 805 | | 005077 | 174146 | 114110 | n1110. | CLR | OFC | ASSURE FCS = 1 |
| 806 | | 052777 | 001700 | 174164 | | BIS | \$1700,0TC | |
| 807 | | 012777 | 000071 | 174124 | | MOV | | ASSURE FHT OK |
| 808 | | 017702 | 174120 | 114154 | | MOV | 871,8C1 | SET READ+GO |
| 809 | | 032702 | 000001 | | | | 0C1,R2 | READ C1 |
| 810 | | 001002 | 999991 | | | BIT | 01,R2 | ISEE IF GO =1 |
| 011 | | 000167 | - | | | BNE | LTIIC | ; IF 80; BR |
| 012 | | 004767 | 000054 | | | JMP | LT11E2 | IELSE GO TO ERROR 2 |
| | | | | | LT11C | JSR | PC, INIT1 | IGO INIT |
| 013 | | 017702 | 174076 | | | MOA | 0C1,R2 | READ C1 |
| 814 | | 032702 | 000001 | | | BIT | 01,R2 | SEE IF GOOD |
| 815 | | 001447 | 000064 | | | BEQ | LT11X | ; IF 80; BR |
| 816 | | 000167 | 000064 | | | JMP | LT11E3 | ELSE GO TO ERROR 3 |
| 817 | | 012767 | 026207 | 174240 | LTITETT | | MSG21, ERADD | SET ERROR CODE |
| 818 | | 012702 | 000001 | | | MOV | 01,A2 | SET REVD |
| 819 | | 005001 | | | | CLR | R1 | SET EXPT |
| 820 | | 012767 | 004306 | 174244 | | MOA | eLT11IT, SCOLP | SET SCOPE ADDRESS |
| 821 | 004446 | 004767 | 016502 | | | JSR | PC, LTGER1 | GO PRINT ERROR |
| 822 | | 000167 | 177660 | | | JMP | LT118 | ELSE CONTINUE |
| 823 | | 012767 | 026245 | 174206 | LT11E21 | | #MSG22, ERADD | SET ERROR CODE |
| 824 | | 005002 | | | | CLR | R2 | SET RCVD |
| 825 | | 012701 | 999991 | | | MOA | 01,R1 | ; SET EXPT |
| 826 | | 012767 | 994336 | 174212 | | MOV | eLT11B, SCOLP | SET SCOPE ADDRESS |
| 827 | | 004767 | 016450 | | | JSR | PC, LTGER1 | GO PRINT ERROR |
| 828 | 004504 | 800167 | 177672 | | | JMP | LT11C | ;ELSE CONTINUE |
| 829 | | 012767 | 026266 | 174154 | LT11E3: | | MSG23, ERADD | SET ERROR CODE |
| 830 | | 005001 | | | | CLR | R1 | SET EXPT |
| 831 | | 012702 | 000001 | | | MOV | 01,R2 | SET RCVD |
| 832 | | 012767 | 004402 | 174160 | | MOA | *LT11C, SCOLP | SET SCOPE ADDRESS |
| 833 | | 004767 | 016416 | | | JSR | PC, LTGER1 | GO PRINT ERROR |
| 834 | | 884767 | 016656 | | LT11X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 835 | 004542 | 000167 | 175350 | | | JMP | TSCD2 | FRETURN TO SCHED |

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| 836 | | | | | | | | |
|-----|--------|--------|--------|--------|---------|-------|------------------|----------------------------|
| 837 | | | | | | LOGIC | TEST 12: DRIVE R | EADY BITOGOGGGG |
| 838 | | | | | | | | |
| 839 | 004546 | 000240 | | | LT12: | NOP | | |
| 840 | 004550 | 012767 | 636266 | 174044 | LT12IT: | MOV | #MSLT12, EMADDR | SET TEST HEADER |
| 841 | 004556 | 884767 | 016720 | | | JSR | PC, INIT1 | GO INIT |
| 842 | 004562 | 032777 | 000200 | 173732 | | BIT | \$200,0DS | ISEE IF DRY=1 |
| 843 | 004570 | 001002 | | | | BNE | LT128 | IF SOI BR |
| 844 | 004572 | 800167 | 000062 | | | JMP | LT12E1 | ELSE GO TO ERROR 1 |
| 845 | 004576 | 012777 | 000015 | 173730 | LT12B: | MOV | 015,0MR | SET WAMS |
| 846 | 004604 | 005077 | 173706 | | | CLR | OFC | JASSURE PCS . 1 |
| 847 | 004610 | 052777 | 001700 | 173724 | | BIS | \$1700,0TC . | ASSURE FMT OK |
| 848 | 004616 | 012777 | 000071 | 173664 | | MOA | 071,0C1 | SET READ+GO |
| 849 | 004624 | 032777 | 000200 | 173670 | | BIT | #200, #DS | SEE IF DRY=0 |
| 850 | 004632 | 001402 | | | | BEQ | LT12C | ; IF 801 BR |
| 051 | 004634 | 800167 | 000042 | | | JMP | LT12E2 | ;ELSE GO TO ERROR 2 |
| 052 | 004640 | 884767 | 016636 | | LT12C: | JSR | PC, INIT1 | GO INIT |
| 053 | 884644 | 032777 | 000200 | 173650 | | BIT | #200, 0D8 | SEE IF DRYOL |
| 854 | 004652 | 001034 | | | | BNE | LT12X | 11F 801 BR |
| 855 | 004654 | 000167 | 000044 | | | JMP | LT12E3 | ; ELSE GO TO ERROR 3 |
| 856 | 004660 | 012767 | 026321 | 174004 | LT12E11 | MOV | MAG24, ERADD | SET ERROR CODE |
| 857 | 894666 | 012767 | 004550 | 174016 | | MOV | *LT12IT, SCOLP | SET SCOPE ADDRESS |
| 858 | 884674 | 884767 | 016246 | | | JSR | PC, LTGER2 | GO TO ERROR |
| 859 | 864788 | 800736 | | | | BR | LT12B | CONTINUE |
| 860 | 864762 | 012767 | 026347 | 173762 | LT12E2 | MOA | MSG25, ERADD | SET ERROR CODE |
| 861 | 004710 | 812767 | 004576 | 173774 | | MOV | *LT12B, SCOLP | SET LOOP ADDRESS |
| 862 | 804716 | 994767 | 016224 | | | JSR | PC, LTGER2 | GO PRINT ERROR |
| 863 | 004722 | 888746 | | | | BR | LT12C | CONTINUE |
| 864 | 004724 | 012767 | 026376 | 173740 | LT12E31 | MOV | #M&G25A, ERADD | SET ERROR CODE |
| 865 | 864732 | 012767 | 004648 | 173752 | | MOV | sLT12C, SCOLP | SET ERROR LOOP |
| 866 | 994749 | 004767 | 016202 | | | JSR | PC, LTGER2 | GET PRINT ERROR |
| 867 | 884744 | 004767 | 016450 | | LT12X: | JSR | PC, ITER | GO TO ITERATION SUBROUTINE |
| 868 | 004750 | 000167 | 175142 | | | JMP | T8CD2 | RETURN TO SCHED |

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| 869 | | | | | | LOGIC | TEST 13: INTERRU | PT TESTO |
|-----|--------|--------|--------|--------|---------|-------|------------------|-------------------------------------|
| 871 | | | | | | | | |
| 872 | 004754 | 005000 | | | LT13: | CLR | RO | |
| 873 | 004756 | 012767 | 030251 | 173636 | | MOV | SMSLT13, EMADDR | SET TEST HEADER |
| 874 | 004764 | 884767 | 016512 | | LT13IT: | JSR | PC, INITI | GO INIT, SELECT DRIVE, SELECT ABOVE |
| 875 | 004770 | 012767 | 005046 | 173672 | | MOV | OLT13X, RTRN | SET RETURN ADDRESS |
| 876 | 004776 | 005077 | 173506 | | | CLR | OC1 | ICLEAR CS1 |
| 877 | 005002 | 005077 | 173560 | | | CLR | OPSW | SET PRIORITY |
| 878 | 005006 | 052777 | 000100 | 173474 | | BIS | 0100,0C1 | IBIT SET IE |
| 879 | 005014 | 005300 | | | LT13At | DEC | RØ | , |
| 880 | 005016 | 001376 | | | | BNE | LTIJA | AWAIT INTERRUPT |
| 881 | 005020 | 012777 | 000340 | 173540 | LT13E1: | | #340,0PSW | RESET PRIORITY |
| 882 | 005026 | 012767 | 026423 | 173636 | ••••• | MOV | MAG26, ERADD | ISET ERROR CODE |
| 883 | 005034 | 012767 | 004764 | 173650 | | MOV | eLT13IT, SCOLP | ISET LOOP ADDRESS |
| 884 | 005042 | 004767 | 016100 | | | JSR | PC, LTGER2 | GO PRINT ERROR |
| 885 | 005046 | 884767 | 016346 | | LT13X1 | JSR | PC, ITER | GO TO ITERATION SUBROUTINE |
| 886 | 005052 | 000167 | 175040 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 887 | | | | | | | FYO A OFFICE ADD . | ANUAL INTERVENTION STATUS TESTS. | | | | | | | |
|-----|------------------|--------|--------|--------|---------|---|--------------------|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | |
| 889 | | | | | | THE OPERATOR WILL BE REQUIRED TO MANIPULATE THE TU16 CONTROL PANEL IN ACCORDANCE WITH TTY INSTRUCTIONS. | | | | | | | | | |
| 890 | | | | | | ICONINGE ANDE IN ACCOMMENCE WITH IT! INSTRUCTIONS. | | | | | | | | | |
| 891 | | | | | | | | | | | | | | | |
| 892 | | | | | | POGIC | TEST 14: STATUS | AT BOT ON LINE, LOADED, NO WRITE RINGO | | | | | | | |
| 893 | | | | | | | | | | | | | | | |
| 894 | 005056 | 032777 | 001000 | 173504 | LT141 | BIT | 01000,05WR | ISEE IF INHIB MAN TST | | | | | | | |
| 895 | 005064 | 001005 | | | | BNE | LT14A | ; IF NOT! BR | | | | | | | |
| 896 | 005066 | 005767 | 173646 | | | TST | STFLG | SEE IF SINGLE TEST | | | | | | | |
| 897 | 005072 | 001433 | | | | BEQ | LT14XX | IF NOTE BR | | | | | | | |
| 898 | 005074 | 800167 | 016362 | | | JMP | INNT | PELSE GO PRINT INHIB MAG | | | | | | | |
| 899 | 905100 | 012767 | 030316 | 173514 | LT14A: | MOV | MALTI4, EMADDR | | | | | | | | |
| 900 | 005106 | 012704 | 033237 | | | MOY | OMMSG1,R4 | SET INSTRUCTION ONE | | | | | | | |
| 901 | 005112 | 004767 | 016410 | | | JSR | PC, INST | GO DO INSTRUCTION | | | | | | | |
| 902 | 005116 | 004767 | 016360 | | LT14ITE | | PC, INIT1 | INIT, SELECT DRIVE + SLAVE | | | | | | | |
| 903 | 005122 | 012701 | 014602 | | | MOV | 014602,R1 | SET TEST WORD | | | | | | | |
| 904 | | 017702 | 173370 | | | HOY | 6D8, R2 | ASSURE MOL, WRL, DPR, DRY, BOT | | | | | | | |
| 905 | 005126 005132 | | 1,3310 | | | | | 1 woode wastakelaktaktiest | | | | | | | |
| | | 020102 | | | | CMP | R1,R2 | | | | | | | | |
| 906 | 005134 | 001410 | | | | BEQ | LT14X | ; IF 801 BR | | | | | | | |
| 907 | 005136 | 012767 | 005116 | 173546 | | MOA | eLT14IT, SCOLP | SET LOOP ADDRESS | | | | | | | |
| 908 | 005144 | 012767 | 026452 | 173520 | | MOA | MSG27, ERADD | SET ERROR CODE | | | | | | | |
| 909 | 005152 | 004767 | 015776 | | | JSR | PC, LTGER1 | GO PRINT ERROR | | | | | | | |
| 910 | 005156 | 004767 | 016236 | | LT14X1 | JSR | PC, ITER | GO SEE IF ITERATION | | | | | | | |
| 911 | 005162 | 000167 | 174730 | | LT14XX | JMP | TSCD2 | RETURN TO SCHED | | | | | | | |
| 912 | | | | | | | | | | | | | | | |

TM82/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 24 DETUCE,P11

| 913 914 | | | | | | LOGIC | TEST 15: STATUS | AT BOT, OFFLINE, LOADED, NO WRITE RINGOGOGOGOGO |
|------------|--------|--------|--------|--------|---------|--|-----------------|---|
| 915 | | ***** | | | | | ***** | |
| 916 | 005166 | 032777 | 881888 | 173374 | Pifat | BIT | 01000,08WR | JEEE IF INHIB MAN TET |
| 917 | 005174 | 001005 | | | | BNE | LTISA | IF NOTE BR |
| 918 | 005176 | 805767 | 173536 | | | TST | STFLG | SEE IF SINGLE TEST |
| 919 | 005202 | 001433 | | | | BEQ | LTISXX | IF NOTE BR |
| 920 | 005204 | 888167 | 016252 | | | JMP | INNT | PELSE GO PRINT INHIB MSG |
| 921 | 005210 | 012767 | 030364 | 173404 | LT15A: | NOV | MALTIS, EMADDR | JAET TEST HEADER |
| 922 | 005216 | 012704 | 033335 | | | NOV | MMSG2,R4 | 1001 1001 1001 |
| 923 | 005222 | 004767 | 016300 | | | All the same and t | PC, INST | PRINT INSTRUCTION |
| | | | | | | JSR | | |
| 924 | 005226 | 004767 | 016256 | | LT15IT: | JSR | PC, INTT2 | GO INIT, SELECT DRIVE, SLAV |
| 925 | 005232 | 012701 | 100700 | | | MOA | 0100700,R1 | JAET TEST WORD |
| 926 | 005236 | 017702 | 173260 | | | VON | 0D8, R2 | READ STATUS |
| 927 | 005242 | 020102 | | | | CMP | R1,R2 | SEE OF EXPTORCYD |
| 928 | 005244 | 001410 | | | | BEO | LT15X | |
| 929 | 005246 | 012767 | 005226 | 173436 | | MOV | SLT15IT, SCOLP | SET LOOP ADDRESS |
| 930 | 005254 | 012767 | 026452 | 173410 | | MOV | MSG27, ERADD | ISET ERROR CODE |
| 931 | 005262 | 884767 | 015666 | | | | PC, LTGER1 | GO PRINT ERROR |
| | | | | | | JSR | | |
| 932 | 005266 | 004767 | 016126 | | LT15X1 | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 933 | 005272 | 900167 | 174620 | | LTISXXI | JMP | 18CD2 | RETURN TO SCHED |

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| 934 | | | | | | | | | |
|-----|--------|--------|--------|--------|---------|-------------------|-----------------|---|--|
| 935 | | | | | | LOGIC | TEST 16: STATUS | AT EOT, OFFLINE LOADED, NO WRITE RINGOSSOSSOS | |
| 936 | | | | | | | | | |
| 937 | 005276 | 032777 | 001000 | 173264 | LT16: | BIT | \$1000,08WR | ISEE IF INHIB MAN TST | |
| 938 | 005304 | 001005 | | | | BNE | LT16A | IF NOT: BR | |
| 939 | 005306 | 005767 | 173426 | | | TST | STPLG | ISEE IF SINGLE TEST | |
| 940 | 005312 | 001433 | | | | BEQ | LT16XX | IF NOTE BR | |
| 941 | 005314 | 800167 | 016142 | | | JMP | INMT | PELSE GO PRINT INHIB MSG | |
| 942 | 905320 | 012767 | 030432 | 173274 | LT16At | MOV | SHELTIS, EMADOR | SET TEST HEADER | |
| 943 | 005326 | 012704 | 033356 | | | MOV | MMSG3,R4 | | |
| 944 | 005332 | 884767 | 016170 | | | JSR | PC, INST | GO PRINT INSTRUCTION | |
| 945 | 005336 | 004767 | 016146 | | LT16ITE | JSR | PC, INIT2 | SELECT DRIVE, SLAVE | |
| 946 | 005342 | 012701 | 116701 | | | MOV | 0116701,R1 | SET TEST WORD | |
| 947 | 005346 | 817782 | 173150 | | | MOY | 0D8, R2 | READ STATUS | |
| 948 | 005352 | 020102 | | | | CMP | R1, R2 | SEE IF EXPTORCYD | |
| 949 | 005354 | 001410 | | | | BEQ | LT16X | IF SO: BR | |
| 950 | 005356 | 012767 | 005336 | 173326 | | MOV | PLT16IT, SCOLP | SET LOOP ADDRESS | |
| 951 | 005364 | 012767 | 026452 | 173300 | | MOV | MSG27, ERADD | SET ERROR CODE | |
| 952 | 005372 | 884767 | 015556 | | | JSR | PC, LTGER1 | GO PRINT ERROR | |
| 953 | 005376 | 004767 | 016016 | | LT16XI | JSR | PC, ITER | GO SEE IF ITERATION | |
| 954 | 005402 | 000167 | 174510 | | LT16XX: | The second second | TSCD2 | RETURN TO SCHED | |
| 955 | | | | | | | | | |

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| 956 957 | | | | | | LOGIC | TEST 17: STATUS | AT ON LINE, LOADED |
|------------|--------|--------|--------|--------|---------|-------|-----------------|-------------------------|
| 958 | | ***** | | | | | | |
| 959 | 005406 | 032777 | 001000 | 173154 | LT17: | BIT | \$1000,05WR | ; SEE IF INHIB MAN TST |
| 960 | 005414 | 001005 | | | | BNE | LT17A | ; IF NOT: BR |
| 961 | 005416 | 005767 | 173316 | | | TST | STFLG | ; SEE IF SINGLE TEST |
| 962 | 005422 | 001433 | | | | BEQ | LT17XX | IIF NOTE BR |
| 963 | 005424 | 000167 | 016032 | | | JMP | INMT | FLEE GO PRINT INHIB MEG |
| 964 | 005430 | 012767 | 030500 | 173164 | LT17At | MOV | MSLT17, EMADDR | ISET TEST HEADER |
| 965 | 005436 | 012704 | 033414 | | | MOV | MMSG4,R4 | 1001 1001 1101001 |
| | | | | | | | | -60 |
| 966 | 005442 | 004767 | 016060 | | | JSR | PC, INST | GO PRINT INSTRUCTION |
| 967 | 005446 | 004767 | 016036 | | LT17IT: | JSR | PC, INIT2 | SELECT DRIVE, SLAVE |
| 968 | 005452 | 012701 | 110701 | | | MOV | 0110701,R1 | SET TEST WORD |
| 969 | 005456 | 017702 | 173040 | | | NOV | 6D8, R2 | READ STATUS |
| 970 | 005462 | 020102 | | | | CMP | R1,R2 | ; SEE IF EXPT=RCVD |
| 971 | 005464 | 001410 | | | | BEQ | LT17X | IIF SOL BR |
| 972 | 005466 | 012767 | 005446 | 173216 | | MOV | SLT17IT, SCOLP | ISET LOOP ADDRESS |
| 973 | 005474 | 012767 | 026452 | 173170 | | | | |
| | | | | 1,31,0 | | MOA | MSG27, ERADD | SET ERROR CODE |
| 974 | 005502 | 004767 | 015446 | | | JSR | PC, LTGER1 | TYES PRINT ERROR |
| 975 | 005506 | 004767 | 015706 | | LT17X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 976 | 005512 | 000167 | 174400 | | LT17XX: | JMP | TSCD2 | RETURN TO SCHED |

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| 977 978 979 980 981 982 | | | | | | SEQUE FOR E | RCING THEIR CONDI: | WILL TEST ALL POSSIBLE ERROR BITS TIONS THROUGH VARIOUS ILLEGAL PROGRAMMING E MAINTENANCE WILL MODES AVAILABLE WITH TM92 ON SET THE APPROPRIATE STATUS WILL BE SLA, SC ETC. |
|--|--------|--------|--------|--------|---------|----------------|--------------------|---|
| 983 | | | | | | LOGIC | TEST 20: ILLEGAL | FUNCTION (ILF) ************************************ |
| 984 | | | | | | | | |
| 985 | 005516 | 012767 | 030546 | 173076 | LT201 | MOV | MSLT20, ENADDR | SET TEST HEADER |
| 986 | 005524 | 012767 | 005544 | 173160 | -271 | MOV | *LT20A, SCOLP | SET LOOP ADDRESS |
| 987 | 005532 | 012700 | 000022 | | LT20IT: | | #22,R0 | SET NUMBER OF ILL CODES |
| 988 | 005536 | 012767 | 000544 | 173130 | | MOV | #ILFT, TEMP1 | POINT TO START IF TABLE |
| 989 | 005544 | 884767 | 015732 | | LT28A: | JSR | PC, INIT1 | GO INIT, SELECT SLAVE + DRIVE |
| 990 | 005550 | 012777 | 177777 | 172734 | | MOV | 0-1,0WC | ISET NC -1 |
| 991 | 005556 | 012701 | 000001 | | | MOV | 01,R1 | ISET TEST WORD |
| 992 | 005562 | 117777 | 173106 | 172720 | | NOVB | OTEMP1, OC1 | SET ILL CODE |
| 993 | 005570 | 017702 | 172730 | | | MOV | OER,R2 | READ ER |
| 994 | 005574 | 030102 | | | | BIT | R1, R2 | SEE IF EXPTORCYD |
| 995 | 005576 | 001011 | | | | BNE | LT208 | 11F 801 BR |
| 996 | 005600 | 012767 | 033677 | 173064 | | MOY | STHS17, ERADD | SET ERROR CODE |
| 997 | 905696 | 012767 | 000001 | 173102 | | NOV | #1.EXFL | SET EXPT FLG |
| 998 | 005614 | 004767 | 014166 | | | JSR | PC, LTGERO | GO PRINT ERROR |
| 999 | 005620 | 000404 | | | | BR | LT20C | Les Lieur Bullati |
| 1000 | 005622 | 020102 | | | LT20B: | CHP | R1, R2 | SEE UNEXPECTED ERRORS |
| 1001 | 005624 | 001402 | | | | BEO | LT20C | IF NOT: BR |
| 1002 | 005626 | 004767 | 014142 | | | JSR | PC, LTGER3 | PELSE PRINT ERROR |
| 1003 | 005632 | 005300 | | | LT26C: | DEC | RØ | SEE IF DONE ALL ILL CODES |
| 1004 | 005634 | 001404 | | | 2.200. | BEQ | LT20X | IIF 801 BR |
| 1005 | 005636 | 005267 | 173032 | | | INC | TENPI | BUMP ADDRESS |
| 1006 | 005642 | 000167 | 177676 | | | JMP | LT20A | CONTINUE |
| 1007 | 005646 | 004767 | 015546 | | LT20X: | JSR | PC, ITER | GO SEE IF ITERATION |
| 1008 | 005652 | 004767 | 014606 | | a.sex. | JSR | PC, DRVCLR | LAG BER TL TIRWITAL |
| 1009 | 005656 | 000167 | 174234 | | | JMP | TSCD2 | -DETURN TO SCHED |
| | | 200.07 | .,,,,, | | | UMP | 1000 | RETURN TO SCHED |

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| 1010 | | | | | | LOGIC | TEST 21: REGISTE | R MODIFICATION REFUSED(RMR) | ••• |
|------|--------|--------|--------|--------|---------|-------|------------------|------------------------------|-----|
| 1012 | 005662 | 012767 | 030625 | 172732 | LT21: | MOV | AMELES - FMADDO | ערומפה | |
| | 005670 | | | | D1211 | | MSLT21, EMADDR | SET TEST HEADER | |
| 1014 | | 012767 | 005676 | 173014 | | MOV | *LT21IT, SCOLP | SET SCOPE LOOP ADDRESS | |
| 1015 | 005676 | 884767 | 015600 | | LT21IT: | | PC, INIT1 | GO INIT, SELECT SLAVE, DRIVE | |
| 1016 | 005702 | 052777 | 000300 | 172632 | | BIS | #300, PTC | SET FORMAT | |
| 1017 | 005710 | 012777 | 000015 | 172616 | | MOA | 215,0MR | JET WANS | |
| 1010 | 005716 | 012777 | 000071 | 172564 | | MOV | #71,0C1 | ; SET READ+GO | |
| 1019 | 005724 | 005077 | 172566 | | | CLR | OFC | SATTEMPT WRITE TO FC | |
| 1020 | 005730 | 012701 | 000004 | | | MOV | 84,R1 | SET TEST WORD | |
| 1021 | 005734 | 017702 | 172564 | | | MOV | OER, R2 | GET ER | |
| 1022 | 005740 | 030102 | | | | BIT | R1,R2 | ISEE IF EXPTORCYD | |
| 1023 | 005742 | 001011 | | | | BNE | LT21A | 11F 801 BR | |
| 1024 | 005744 | 012767 | 033713 | 172720 | | MOV | STMS19, ERADD | SET ERROR CODE | |
| 1025 | 005752 | 012767 | 000001 | 172736 | | MOV | e1,EXPL | SET EXPT FLG | |
| 1026 | 005760 | 994767 | 014022 | | | JSR | PC, LTGERO | GO PRINT ERROR | |
| 1027 | 005764 | 000404 | | | | BR | LT218 | | |
| 1020 | 005766 | 020102 | | | LT21A: | CHP | R1,R2 | ; SEE IF UNEXPECTED ERRORS | |
| 1029 | 005770 | 001402 | | | | BEQ | LT21B | IF NOT: BR | |
| 1030 | 005772 | 804767 | 013776 | | | JSR | PC, LTGER3 | JELSE GO PRINT ERROR | |
| 1031 | 995776 | 994767 | 015416 | | LT21B: | JSR | PC, ITER | GO SEE IF ITERATION | |
| 1032 | 006002 | 012703 | 040000 | | | MOV | 140000,R3 | 700 300 11 1100011000 | |
| 1033 | 006006 | 005303 | | | LT21XA: | | R3 | DELAY FOR ALPHA | |
| 1034 | 006010 | 001376 | | | | BNE | LT21XA | Input LAK WALLE | |
| 1035 | 906012 | 004767 | 013560 | | | | | | |
| | | 004767 | | | | JSR | PC, EORPA | GO DO EOR CLEAR | |
| 1036 | 006016 | | 014442 | | | JSR | PC, DRVCLR | APPRION DA COUPA | |
| 1037 | 006022 | 000167 | 174070 | | | JMP | TSCD2 | RETURN TO SCHED | |

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| 1030 | | | | | | LOGIC | TEST 22: CONTROL | BUS PARITY (CPAR) ******* |
|------|--------|--------|--------|--------|---------|-------|------------------|---------------------------|
| 1040 | | | | | | | | |
| 1041 | 006026 | 012767 | 030661 | 172566 | LT221 | MOV | #MSLT22, EMADDR | SET TEST HEADER |
| 1042 | 006034 | 012767 | 006042 | 172650 | | MOV | *LT22IT, SCOLP | SET SCOPE LOOP ADDRESS |
| 1043 | 006042 | 004767 | 015434 | | LT22IT: | | PC, INIT1 | INIT, SELECT SLAVE+DRIVE |
| 1044 | 006046 | 052777 | 000020 | 172444 | | BIS | #20,0CS | ENABLE EVEN PARITY ON MB |
| 1045 | 006054 | 012777 | 177777 | 172434 | | MOV | 8-1,0FC | WRITE TO FC |
| 1046 | 006062 | 012701 | 000010 | | | MOV | #10,R1 | SET TEST WORD |
| 1047 | 006066 | 042777 | 000020 | 172424 | | BIC | #20,0CS | RESET PARITY TO ODD |
| 1048 | 996974 | 017702 | 172424 | | | MOV | OER, R2 | GET ER |
| 1049 | 006100 | 030102 | | | | BIT | R1,R2 | SEE IF EXPTORCYD |
| 1050 | 006102 | 001011 | | | | BNE | LT22A | IF SOI BR |
| 1051 | 006104 | 012767 | 033721 | 172560 | | MOV | TMS20, ERADD | SET ERROR CODE |
| 1052 | 006112 | 012767 | 000001 | 172576 | | MOV | #1,EXFL | SET EXPT FLG |
| 1053 | 006120 | 884767 | 013662 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1054 | 006124 | 000404 | | | | BR | LT22X | 100 then Bullon |
| 1055 | 006126 | 020102 | | | LT22A: | CMP | R1, R2 | SEE IF UNEXPECTED ERRORS |
| 1056 | 006130 | 001402 | | | | BEQ | LT22X | ; IF NOT: BR |
| 1057 | 006132 | 004767 | 013636 | | | JSR | PC, LTGER3 | ELSE GO PRINT ERROR |
| 1058 | 006136 | 004767 | 015256 | | LT22X: | JSR | PC, ITER | GO SEE IF ITERATION |
| 1059 | 006142 | 004767 | 014316 | | | JSR | PC, DRVCLR | , are |
| 1969 | 006146 | 000167 | 173744 | | | JMP | TSCD2 | RETURN TO SCHED |
| | | | | | | | | |

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| 1061 | | | | | | LOGIC | TEST 23: FORMAT | ERROR(FMT) ******** |
|------|--------|--------|--------|--------|---------|-------|-----------------|----------------------------|
| 1063 | | | | | | | | |
| 1064 | 006152 | 012767 | 030716 | 172442 | LT23: | MOV | #MSLT23, EMADDR | SET TEST HEADER |
| 1065 | 006160 | 012767 | 006166 | 172524 | | MOV | *LT23IT, SCOLP | SET SCOPE ADDRESS |
| 1966 | 006166 | 884767 | 015310 | | LT23IT: | JSR | PC, INIT1 | GO INIT SELECT DRIVE+SLAVE |
| 1967 | 006172 | 842777 | 000360 | 172342 | | BIC | #360, PTC | SET ILLEGAL FORMAT |
| 1068 | 006200 | 012701 | 000020 | | | MOV | #20,R1 | SET TEST WORD |
| 1069 | 006204 | 012777 | 000015 | 172322 | | MOV | 015,0MR | ISET WAN 3 |
| 1070 | 006212 | 012777 | 000071 | 172270 | | MOV | 071,0C1 | SET READ+GO |
| 1071 | 006220 | 017702 | 172300 | | | MOV | OER, R2 | READ ER |
| 1072 | 006224 | 030102 | | | | BIT | R1, R2 | SEE IF EXPTORCYD |
| 1073 | 906226 | 801011 | | | | BNE | LT23A | 11F 801 BR |
| 1074 | 006230 | 012767 | 633736 | 172434 | | MOV | STM821, ERADD | SET ERROR CODE |
| 1075 | 006236 | 012767 | 000001 | 172452 | | MOV | 01,EXFL | SET EXPT FLG |
| 1076 | 006244 | 004767 | 013536 | | | JSR | PC, LTGERO | GO PRINT ERROR |
| 1077 | 006250 | 000404 | | | | BR | LT23X | les tuens annou |
| 1078 | 006252 | 020102 | | | LT23At | CMP | R1, R2 | ; SEE IF UNEXPECTED ERRORS |
| 1079 | 006254 | 001402 | | | | BEQ | LT23X | ; IF NOT: BR |
| 1000 | 006256 | 094767 | 013512 | | | JSR | PC, LTGER3 | ELSE GO PRINT ERROR |
| 1001 | 006262 | 884767 | 015132 | | LT23X: | JSR | PC, ITER | GO SEE IF ITERATION |
| 1002 | 006266 | 884767 | 013304 | | D. 63A. | JBR | PC, EORPA | lan der st. struutson |
| 1003 | 006272 | 004767 | 014166 | | | | | |
| 1084 | 006276 | 800167 | 173614 | | | JSR | PC, DRVCLR | |
| 1004 | 000210 | 200101 | 113014 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 1005 | | | | | | LOGIC | TEST 241 DATA BU | S PARITY ERROR(DPAR) |
|------|------------------|------------------|------------------|--------|--------------------|-------|-----------------------------------|--|
| 1086 | 006303 | | 030360 | 177717 | | | | |
| 1000 | 006302 006310 | 012767 012767 | 030760 006316 | 172312 | P1541 | MOA | #MSLT24, ENADDR #LT24IT, SCOLP | SET TEST HEADER |
| 1009 | 896316 | 012767 | 000005 | 172262 | LT24IT: | | 05, ITANT | JOE: SCOLE WARKERS |
| 1090 | 006324 | 004767 | 015152 | 112202 | 2124111 | JSR | PC, INIT1 | 160 INIT, SELECT DRIVE+SLAVE |
| 1091 | 006330 | 052777 | 000300 | 172204 | | BIS | #300, FTC | SET NORMAL FORMAT |
| 1092 | 006336 | 012777 | 034144 | 172150 | | MOV | PWDATA, OBA | ISET BA |
| 1093 | 006344 | 012777 | 177760 | 172144 | | MOV | 0-20,0FC | ISET FC |
| 1094 | 006352 | 012777 | | 172132 | | MOV | 0-10,0WC | ISET WC |
| 1095 | 006360 | 012777 | | 172146 | | MOV | 013,0MR | SELECT WAN 2 |
| 1096 | 006366 | 012777 | 000061 | 172114 | | MOV | 061,0C1 | SET WRITE+GO |
| 1097 | 006374 | 052777 | 000020 | 172116 | | BIS | 020,0C8 | FORCE EVEN PARITY |
| 1098 | 006402 | 012701 | 000040 | | | MOV | #40,R1 | SET TEST WORD |
| 1099 | 806486 | 012703 | 000004 | | | NOV | 04,R3 | |
| 1100 | 006412 | 005000 | | | | CLR . | RØ | |
| 1101 | 806414 | 005300 | | | LT24A: | DEC | RO | |
| 1102 | 006416 | 001376 | | | | BNE | LT24A | DELAY |
| 1103 | 806420 | 005303 | | | | DEC | R3 | |
| 1104 | 006422 | 001374 | | | | BNE | LT24A | |
| 1105 | 006424 | 012700 | 000004 | | | MOV | 84, R0 | |
| 1106 | 006430 | 012777 | 000013 | 172076 | LT24B: | MOV | 013,0MR | CLOCK MR 4 TIMES |
| 1107 | 006436 | 005300 | | | | DEC | RO | |
| 1100 | 006440 | 022700 | 000002 | | | CMB | 02,R0 | ISEE IF DONE 1 BYTE |
| 1109 | 006444 | 001002 | | | | BNE | LT24B0 | ; IF NOT: BR |
| 1110 | 006446 | 017701 | 172062 | | | MOV | OMR, R1 | FLAE GET BYTE 1 |
| 1111 | 006452 | 005700 | | | LT24801 | TST | RO | ISEE IF BYTE 2 |
| 1113 | 006456 | 001365 | 172052 | | | BNE | LT24B | ; IF NOT: BR |
| 1114 | 006462 | 005000 | 1/2002 | | | CLR | OMR, R4 | GET BYTE 2 |
| 1115 | 006464 | 005300 | | | LT24C1 | DEC | RØ | |
| 1116 | 006466 | 001376 | | | | BNE | LT24C | IDELAY |
| 1117 | 006470 | 032777 | 000040 | 172026 | | BIT | \$40,0ER | ISEE IF DPAR IS SET |
| 1110 | 996476 | 001023 | | | | BNE | LT24D | IF SO: BR |
| 1119 | 006500 | 000301 | | | | SWAB | R1 | 100 000 |
| 1120 | 006502 | 042701 | 177400 | | | BIC | | GET LOW BYTE |
| 1121 | 006506 | 042704 | 000377 | | | BIC | #377,R4 | |
| 1122 | 006512 | 050401 | | | | BIS | R4,R1 | GET HIGH BYTE |
| 1123 | 006514 | 005267 | 172224 | | | INC | T24FL | ISET T24 FLAG |
| 1124 | 006520 | 012767 | 033736 | 172144 | | MOA | STMS22, ERADD | SET ERROR CODE |
| 1125 | 006526 | 012767 | 000001 | 172162 | | MOV | 01,EXFL | SET EXPT FLG |
| 1126 | 006534 | 004767 | 013246 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1127 | 006540 | 005067 | 172200 | | | CLR | T24FL | CLEAR FLAG |
| 1120 | 006544 | 808412 | | | | BR | LT24X | |
| 1129 | 006546 | 012701 | 000050 | | LT24D: | MOV | 050,R1 | |
| 1130 | 006552 | 017702 | 171746 | | | MOV | OER, R2 | GET ERROR REGISTER |
| 1131 | 006556 | 042702 | 020000 | | | BIC | #20000,R2 | MASK OPI |
| 1132 | 006562 | 020102 | | | | CMP | R1,R2 LT24X | ; SEE IF UNEXPECTED ERRORS ; IF NOT: BR |
| 1134 | 006566 | 884767 | 013202 | | | JSR | PC, LTGER3 | ELSE GO PRINT ERROR |
| 1135 | 006572 | 842777 | 000020 | 171720 | LT24XI | BIC | 620, 0C8 | RESET EVEN PARITY |
| 1136 | 006600 | 004767 | 012772 | 1,1,50 | D.5441 | JSR | PC, EORPA | GO DO EOR CLEAR |
| 1137 | 006604 | 004767 | 013654 | | | JSR | PC, DRVCLR | GO SEE IF DRIVE CLEAR OK |
| 1130 | 006610 | 004767 | 014604 | | | JSR | PC, ITER | GO SEE IF ITERATION |
| 1139 | 006614 | 012767 | 000020 | 171764 | | MOV | #20, ITANT | , |
| 1140 | 006622 | 000167 | 173270 | | EL STREET, SECTION | JMP | TACD2 | IDETUDE TO SCHED |

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| 1141 | | | | | | | | |
|------|--------|--------|--------|---|---------|-------|------------------|--------------------------|
| 1142 | | | | | | LOGIC | TEST 25: NON-EXE | CUTABLE FUNCTION(NEF) |
| 1143 | | | | | | , | | |
| 1144 | 006626 | 812767 | 031020 | 171766 | LT251 | MOV | MSLT25, EMADDR | ISET TEST HEADER |
| 1145 | 006634 | 012767 | 006642 | 172050 | | MOV | *LT25IT, SCOLP | SET LOOP ADDRESS |
| 1146 | 006642 | 004767 | 014634 | 112030 | LT25ITI | | | |
| | | | | | PISSIII | JSR | PC, INIT1 | INIT, SELECT DRIVE+SLAVE |
| 1147 | 996646 | 052777 | 000300 | 171666 | | BIS | #300, FTC | SET NORMAL FORMAT |
| 1148 | 006654 | 012777 | 177777 | 171634 | | MOV | 0-1, OFC | SET ITLLEGAL FC |
| 1149 | 006662 | 012777 | 000013 | 171644 | | MOV | 013, OMR | JET WAN 2 |
| 1150 | 806678 | 012777 | 000061 | 171612 | | MOV | #61,0C1 | ;LOAD WRITE+GO |
| 1151 | 006676 | 012701 | 994999 | | | MOV | 44000,R1 | ISET TEST WORD |
| 1152 | 006702 | 017702 | 171616 | | | MOV | BER, R2 | GET ER |
| 1153 | 806786 | 030102 | | | | BIT | R1, R2 | SEE IF EXPT=RCVD |
| 1154 | 606710 | 001011 | | | | BNE | LT25A | 11F 801 BR |
| 1155 | 006712 | 012767 | 034024 | 171752 | | NOV | STH831, ERADD | SET ERROR CODE |
| 1156 | 006720 | 012767 | 000001 | 171770 | | MOV | 01,EXFL | SET EXPT FLAG |
| 1157 | 006726 | 004767 | 013054 | • | | JSR | PC, LTGERO | GO PRINT ERROR |
| 1150 | 006732 | 000404 | | | | BR | LT25X | 144 Eugus Bundu |
| 1159 | 996734 | 020102 | | | | CHP | | 15 |
| | | | | | LT25A: | | R1,R2 | SEE IF UNEXPECTED ERRORS |
| 1160 | 006736 | 001402 | | | | BEQ | LT25X | ;IF NOT: BR |
| 1161 | 006740 | 004767 | 013030 | | | JSR | PC, LTGER3 | ELSE GO PRINT ERROR |
| 1162 | 996744 | 004767 | 014450 | | LT25X: | JSR | PC, ITER | GO SEE IF ITERATION |
| 1163 | 006750 | 004767 | 013510 | | | JSR | PC, DRVCLR | |
| 1164 | 006754 | 000167 | 173136 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 1165 | | | | | | LOGIC | TEST 261 FRAME C | OUNT ERROR(FCE) |
|------|--------|--------|--------|--------|---------|-------|------------------|--|
| 1167 | 006760 | 012767 | 031054 | 171634 | LT261 | MOV | #MSLT26, EMADDR | SET TEST HEADER |
| 1169 | 996766 | 004767 | 014510 | 1,1034 | LT26ITI | JSR | PC, INITI | ; INIT, SELECT DRIVE+SLAVE |
| 1170 | 006772 | 005000 | 014310 | | 8120111 | CLR | RO | ITHIT, BEDECT DRIVE-BUNYE |
| 1171 | 996774 | 005300 | | | LT26Ws | DEC | RO | |
| 1172 | 006776 | 001376 | | | P15emi | BNE | LT26W | -14170 007 00000 |
| 1173 | 007000 | 052777 | 000300 | 171534 | | BIS | #300,0TC | ; AWAIT OPI RESET ; SET NORMAL FORMAT |
| 1174 | 887886 | 012777 | 177770 | 171476 | | MOV | 8-10, OMC | SET WC-16 |
| 1175 | 007014 | 612777 | 177760 | 171474 | | HOV | 0-20,0FC | |
| 1176 | 887822 | 012777 | 000013 | 171504 | | MOY | #13, ONR | ISET FC=-20 ISET WAM 3 |
| 1177 | 007030 | 012777 | 000061 | 171452 | | MOY | 061,0C1 · | LOAD WRITE+GO |
| 1178 | 007036 | 012701 | 001000 | 1.1425 | | MOV | #1000,R1 | SET TEST WORD |
| 1179 | 007042 | 805000 | 001000 | | | CLR | RO | 1951 1591 MOKO |
| 1100 | 007044 | 005300 | | | LT26A1 | DEC | RO | |
| 1101 | 907946 | 001376 | | | DISON! | BNE | LT26A | 1DELAY |
| 1102 | 007050 | 012777 | 000025 | 171456 | | MOV | 025, OMR | LOAD MM EOR CLEAR |
| 1103 | 007056 | 105077 | 171452 | 1,1420 | | CLRB | ONR | RESET HR |
| 1104 | 007062 | 012703 | 000004 | | | MOV | 64,R3 | lugger uk |
| 1105 | 007066 | 005000 | 500004 | | | CLR | RO | |
| 1186 | 007070 | 032777 | 001000 | 171426 | LT26B: | BIT | 01000, 0ER | ISEE IF FCE SET |
| 1187 | 007076 | 001022 | 001000 | 111480 | | BNE | LT26C | 11F 801 BR |
| 1100 | 007100 | 005300 | | | | DEC | RO | 111 001 01 |
| 1109 | 007102 | 001372 | | | | BNE | LT26B | DELAY |
| 1190 | 007104 | 005303 | | | | DEC | R3 | Incour |
| 1191 | 007106 | 001370 | | | | BNE | LT26B | |
| 1192 | 007110 | 017702 | 171410 | | | MOV | OER, R2 | GET ER |
| 1193 | 007114 | 012767 | 006766 | 171570 | | HOY | eLT26IT, SCOLP | SET SCOPE ADDRESS |
| 1194 | 007122 | 012767 | 034003 | 171542 | | HOV | +TMS28, ERADD | leer acote wookede |
| 1195 | 007130 | 012767 | 000001 | 171560 | | MOV | 01,EXFL | SET EXPT PLG |
| 1196 | 007136 | 804767 | 012644 | | | JSR | PC. LTGERØ | GO PRINT ERROR |
| 1197 | 007142 | 000406 | | | | BR | LT26X | 140 Lugus Bunnu |
| 1198 | 007144 | 017702 | 171354 | | LT26C1 | MOV | OER, R2 | GET ERROR REGISTER |
| 1199 | 007150 | 020102 | | | | CMP | R1, R2 | SEE IF UNEXPECTED ERRORS |
| 1200 | 007152 | 001402 | | | | BEQ | LT26X | IF NOT: BR |
| 1201 | 007154 | 004767 | 012614 | | | JSR | PC, LTGER3 | ELSE GO PRINT ERROR |
| 1202 | 007160 | 884767 | 014234 | | LT26XI | JSR | PC, ITER | GO SEE IF ITERATION |
| 1203 | 007164 | 894767 | 013274 | | | JSR | PC, DRVCLR | , |
| 1204 | 007170 | 800167 | 172722 | | | JMP | TSCD2 | RETURN TO SCHED |
| | | | | | | | | , |

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| 1205 | | | | | | | | |
|------|--------|--------|--------|--------|---------|-------|------------------|------------------------------|
| 1206 | | | 1 | | | LOGIC | TEST 27: ILLEGAL | REGISTER(ILR) ******** |
| 1207 | | | | | | | | |
| 1200 | 007174 | 022767 | 172400 | 171306 | LT271 | CMP | 0172480,C1 | ; SEE IF ADDRESSES OPEN |
| 1209 | 907202 | 001041 | | | | BNE | LT27XX | IF NOT: BR |
| 1210 | 007204 | 012767 | 007230 | 171500 | | HOV | PLT27A, SCOLP | ISET SCOPE ADDRESS |
| 1211 | 007212 | 012767 | 031110 | 171402 | | MOV | MSLT27, EMADOR | SET TEST HEADER |
| 1212 | 007220 | 012700 | 000020 | | LT27IT: | MOV | 020, RO | SET NUMBER OF ILR TESTS |
| 1213 | 007224 | 012701 | 172434 | | | MOV | 0172434,R1 | ISET FIRST ILR ADDRESS |
| 1214 | 007230 | 004767 | 014246 | | LT27At | JSR | PC, INIT1 | 1GO INIT, SELECT DRIVE+SLAVE |
| 1215 | 007234 | 011103 | | | | MOV | (R1),R3 | JATTEMPT ILR READ |
| 1216 | 997236 | 032777 | 000002 | 171260 | | BIT | 02,0ER | JEEE IF ILROI |
| 1217 | 007244 | 001010 | | | | BNE | L1278 | 117 801 BR |
| 1210 | 007246 | 012767 | 000001 | 171442 | | MOV | 01,EXFL | SET EXPT-NOT RCVD FLAG |
| 1219 | 007254 | 012767 | 033625 | 171410 | | MOV | OTHS10, ERADD | SET ERROR CODE |
| 1220 | 007262 | 004767 | 012526 | *.** | | JSR | PC, LTGER | GO PRINT ERROR |
| 1221 | | 005300 | 019350 | | | DEC | | |
| | 007266 | | | | LT2781 | | RO | SEE IF DONE ALL |
| 1222 | 007270 | 001402 | | | | DEG | LT27X | ; IF 80; BR |
| 1223 | 007272 | 005721 | | | | TST | (R1)+ | BUMP ADDRESS |
| 1224 | 007274 | 000755 | | | | BR | LT27A | CONTINUE TESTS |
| 1225 | 007276 | 004767 | 014116 | | LT27XI | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 1226 | 007302 | 004767 | 013156 | | | JSR | PC, DRVCLR | |
| 1227 | 007306 | 000167 | 172604 | | LT27XX: | JMP | TSCD2 | RETURN TO SCHED |
| | | | | | | | | |

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| 1220 | | | | | | | | |
|------|------------------|------------------|--------|--------|---------|-------|----------------------|---|
| 1229 | | | | | | LOGIC | TEST 34. DRIVE T | IMING ERROR |
| 1230 | | | | | | , | 1001 301 04116 1 | THE EKKOKANANANANANANANANANANANANANANANANANAN |
| 1231 | 007312 | 012767 | 034032 | 171352 | LT30: | MOV | eTHS32, ERADD | SET ERROR CODE |
| 1232 | 007320 | 012767 | 031144 | 171274 | | MOY | MALTIO, ENADDR | SET TEST HEADER |
| 1233 | 907326 | 012767 | 007334 | 171356 | | MOV | *LT38IT, SCOLP | SET SCOPE ADDRESS |
| 1234 | 007334 | 004767 | 014142 | | LT30IT: | | PC, INITI | ; INIT, SELECT DRIVE + SLAVE |
| 1235 | 007340 | 052777 | 000300 | 171174 | | BIS | #300,0TC | ISET NORMAL FORMAT |
| 1236 | 007346 | 012701 | 010000 | | | MOV | 010000,R1 | SET TEST WORD |
| 1237 | 007352 | 012777 | 000017 | 171154 | | MOV | 017,0MR | CRIPPLE OCCUPIED |
| 1230 | 007360 | 005077 | 171132 | | | CLR | OFC | ISET FC3 |
| 1239 | 007364 | 012777 | 000061 | 171116 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1240 | 007372 | 032777 | 010000 | 171124 | | BIT | #10000, OER | ISEE IF DIE SET |
| 1241 | 007400 | 001005 | | | | BNE | LTJOA | 11F 801 BR |
| 1242 | 007402 | 012767 | 000001 | 171306 | | MOV | 01,EXPL | SET EXPT FLG |
| 1243 | 007410 | 004767 | 012372 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1244 | 007414 | 884767 | 014062 | | LT30A: | JBR | PC, INIT1 | GO INIT SELECT DRIVE, SLAVE |
| 1245 | 007420 | 052777 | 000300 | 171114 | | BIS | 4300,0TC | SET FORMAT |
| 1246 | 007426 | 012701 | 010000 | | | MOV | #10000,R1 | ISET TEST WORD |
| 1247 | 007432 | 005077 | 171060 | | | CLR | OFC | ISET FCS |
| 1240 | 007436 | 012777 | 000015 | 171070 | | MOV | 015,0MR | SET WRAP 3 |
| 1249 | 007444 | 012777 | 000061 | 171036 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1250 | 007452 | 012704 | 040000 | | | MOV | 149000,R4 | |
| 1251 | 007456 | 005777 | 171060 | | LT30B: | TST | OTC | ISEE IF ALPHA |
| 1252 | 007462 | 100015 | | | | BPL | LT30C | JAWAIT ALPHA |
| 1253 | 007464 | 805300 | | | | DEC | RO | |
| 1254 | 997466 | 001373 | | | | BNE | LT308 | |
| 1255 | 007470 | 016704 | 171126 | | | MOA | EMADDR, R4 | |
| 1256 | 997474 | 884767 | 014344 | | | JSR | PC, TTOUT | PRINT HEADER |
| 1257 | 007500 | 012704 | 027206 | | | MOA | MAG50,R4 | |
| 1250 | 007504 | 884767 | 014334 | | | JSR | PC, TTOUT | PRINT ALPHA ERROR |
| 1259 | 007510 | 004767 | 013660 | | | JSR | PC.SCOPE | |
| 1260 | 007514 | 000435 | | | | BR | LT30X | |
| 1261 | 007516 | 012777 | 000015 | 171010 | LT30C: | MOA | 015,0MR | ICLOCK HR |
| 1262 | 007524 | 012777 | 000015 | 171002 | | MOA | 015,0MR | ICLOCK MR |
| 1263 | 007532 | 005000 | | | | CLR | RO | |
| 1264 | 007534 | 005300 | | | LT30D: | DEC | RO | |
| 1265 | 007536 | 001376 | | | | BNE | LT30D | DELAY |
| 1266 | 907546 907546 | 632777 | 010000 | 170756 | | BIT | #10000, DER | SEE IF DTE SET |
| | | 001006 | | | | BNE | LT30E | 11F 801 BR |
| 1268 | 007550 007556 | 012767 004767 | 000001 | 171140 | | MOA | 01,EXFL | SET EXPT PLG |
| 1270 | 007562 | 000412 | 012224 | | | JSR | PC, LTGERO | IGO PRINT ERROR |
| 1271 | 007564 | 012701 | 010000 | | | BR | LT30X | |
| 1272 | 007570 | 017702 | 170730 | | LT30E1 | MOV | #10000,R1 | SET TEST WORD |
| 1273 | 007574 | 042702 | 020000 | | | BIC | OER,R2 | GET ERROR REGISTER |
| 1274 | 007600 | 020102 | 0.0000 | | | CMP | #20000, R2 R1, R2 | ; MASK OPI ; SEE IF UNEXPECTED ERRORS |
| 1275 | 007602 | 001402 | | | | BEO | LT30X | ; IF NOTE BR |
| 1276 | 007604 | 004767 | 012164 | | | JSR | PC, LTGER3 | ;ELSE GO PRINT ERROR |
| 1277 | 007610 | 004767 | 013604 | | LT30X1 | JSR | PC, ITER | GO SEE IF ITERATION |
| 1270 | 007614 | 004767 | 011756 | | 2.30A. | JSR | PC, EORPA | GO CLEAR GO BIT |
| 1279 | 007620 | 004767 | 012640 | | | JSR | PC, DRVCLR | , count or set |
| 1200 | 007624 | 000167 | 172266 | | | JMP | TSCD2 | RETURN TO SCHED |
| 1281 | | | | | | | | |

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| 1202 | | | | | | LOGIC | TEST 31: OPERATI | ON INCOMPLETE(OPI) |
|------|------------------|------------------|--------|--------|---------|-------|------------------|----------------------------|
| 1204 | 007630 | 812767 | 031202 | 170764 | | MAY | | |
| 1286 | 007636 | | 007644 | | LT311 | MOV | eMSLT31, EMADDR | SET TEST HEADER |
| 1207 | 007644 | 012767 | 000005 | 171046 | | MOV | PLT31IT, SCOLP | SET SCOPE ADDRESS |
| 1288 | 007652 | 012767 004767 | 013624 | 1/0/34 | LT31IT: | | #5, ITAMT | SET REDUCED ITER COUNT |
| 1289 | 007656 | 005000 | 013054 | | | JSR | PC, INITI | ; INIT, SELECT DRIVE+SLAVE |
| 1290 | 007660 | 005300 | | | LT31W: | CLR | RO | |
| 1291 | 007662 | 001376 | | | P13144 | BNE | LT31W | JAWAIT OPI RESET |
| 1292 | 007664 | 052777 | 000300 | 170650 | | BIS | 0300,0TC | SET FORMAT |
| 1293 | 007672 | 012777 | 000013 | 170634 | | HOV | 013,0MR | ISET WAN 2 |
| 1294 | 997788 | 005077 | 170612 | | | CLR | OFC | ISET FCS |
| 1295 | 007704 | 012777 | 000061 | 170576 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1296 | 007712 | 012701 | 020000 | | | MOV | #20000,R1 | SET TEST WORD |
| 1297 | 007716 | 012703 | 000004 | | | MOV | 64,R3 | 100 |
| 1298 | 007722 | 005000 | | | | CLR | RØ | |
| 1299 | 007724 | 032777 | 020000 | 170572 | LT31A: | BIT | 120000, DER | ISEE IF OPI SET |
| 1300 | 007732 | 001015 | | | | BNE | LT318 | IIF SOI BR |
| 1301 | 007734 | 005300 | | | | DEC | RO | 71. 001 0. |
| 1302 | 007736 | 001372 | | | | BNE | LT31A | IDELAY |
| 1303 | 007740 | 005303 | | | | DEC | R3 | |
| 1304 | 007742 | 001370 | | | | BNE | LT31A | |
| 1305 | 007744 | 012767 | 034046 | 170720 | | MOV | THE 33A, ERADD | SET ERROR CODE |
| 1306 | 007752 | 012767 | 000001 | 170736 | | MOV | e1,EXFL | SET EXPT FLG |
| 1307 | 007760 | 004767 | 012022 | | | JSR | PC, LTGERS | GO PRINT ERROR |
| 1300 | 007764 | 900464 | | | | BR | LT31X | |
| 1309 | 007766 | 017702 | 170532 | | LT31B: | NOV | OER, R2 | GET ERROR REGISTER |
| 1310 | 007772 | 020102 | | | | CMP | R1, R2 | ISEE IF UNEXPECTED ERRORS |
| 1311 | 007774 | 001403 | | | | BEQ | LT31C | ; IF NOT: BR |
| 1312 | 887776 | 004767 | 011772 | | | JSR | PC, LTGER3 | ELSE PRINT ERROR |
| 1313 | 010002 | 000455 | | | | BR | LT31X | |
| 1314 | 010004 | 884767 | 013472 | | LT31C: | JSR | PC, INIT1 | GO INIT |
| 1315 | 010010 | 005000 | | | | CLR | RO | |
| 1316 | 010012 | 005300 | | | LT31W1: | | RO | |
| 1317 | 010014 | 001376 | | | | BNE | LT31W1 | AWAIT OPI RESET |
| 1310 | 010016 | 052777 | 000300 | 170516 | | BIS | #300,0TC | SET FORMAT |
| 1319 | 010024 | 012777 | 000015 | 170502 | | MOA | #15,0MR | SET WRAP 3 |
| 1320 | 010032 | 012777 | 000071 | 170450 | | MOA | 671.0C1 | LOAD READ+GO |
| 1321 | 010040 | 012701 | 020000 | | | MOA | #20000,R1 | SET TEST WORD |
| 1322 | 010044 | 012703 | 000100 | | | MOA | 0100,R3 | |
| 1323 | 010050 | 005000 | | | | CLR | RO | |
| 1324 | 010052 | 032777 | 020000 | 170444 | LT31D: | BIT | 920000, BER | ISEE IF OPI SET |
| 1325 | 010060 | 001020 | | | | BNE | LT31E | ; IF SO: BR |
| 1326 | 010062 | 005300 | | | | DEC | RO | |
| 1327 | 010064 | 001372 | | | | BNE | LT31D | DELAY |
| 1320 | 010066 | 005303 | | | | DEC | R3 | |
| 1329 | 010070 | 001370 | | | | BNE | LT31D | |
| 1330 | 010072 | 012767 | 010004 | 170612 | | MOA | *LT31C, SCOLP | SET SCOPE ADDRESS |
| 1331 | 010100 | 012767 | 034062 | 170564 | | MOV | #TM833B, ERADD | ISET ERROR CODE |
| 1332 | 010106 | 012767 | 000001 | 170602 | | MOA | OI, EXFL | ISET EXPT FLG |
| 1333 | 010114 | 884767 | 911666 | | | JSR | PC, LTGERO | JGO PRINT ERROR |
| 1334 | 010120 | 000406 | 170374 | | | BR | LT31X | -455 50000 00414050 |
| 1336 | 010122 010126 | 017702 | 170376 | | LT31E: | MOV | OER, R2 | JGET ERROR REGISTER |
| 1337 | 010130 | 020102 | | | | CMP | R1,R2 LT31X | ISEE IF UNEXPECTED ERRORS |
| | -10130 | 201405 | _ | | | BEQ | | 111 |

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|------------|---------|-------|------|--------|---------|-----------|-------|------|----|
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| 1339 | 010136 | 004767 004767 004767 | 013256 | | LT31XI | JSR JSR JSR | PC, LTGER3 PC, ITER PC, DRVCLR | ; ELSE PRINT ERROR ; GO SEE IF ITERATIONS |
|------|--------|----------------------------|--------|--------|--------|-------------------|--------------------------------------|--|
| | | 012767 000167 | | 170432 | | JMP | #20, ITAMT TSCD2 | RETURN TO SCHED |

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| 1343 | | | | | | LOGIC | TEST 32: UNSAFE(| UNS) ****** |
|------|--------|--------|--------|--------|---------|-------|------------------|----------------------------|
| 1345 | 010160 | 012767 | 031236 | 120434 | 1.000. | MOV | | |
| | | | | 170434 | LT32: | | #MSLT32, EMADDR | SET TEST HEADER |
| 1347 | 919166 | 012767 | 010174 | 170516 | | MOV | *LT32IT, SCOLP | ISET SCOPE ADDRESS |
| 1348 | 010174 | 884767 | 013302 | | LT32IT: | JSR | PC, INIT1 | ; INIT, SELECT DRIVE +SLAV |
| 1349 | 010200 | 016700 | 170460 | | | MOA | SLVN, RO | GET SLAVE NUMBER |
| 1350 | 010204 | 005100 | | | | COM | RO | JAET MONEXISTANT SLAVE |
| 1351 | 010206 | 042700 | 177770 | | | BIC | #177776,R6 | MASK SLAVE NUMBER |
| 1352 | 010212 | 052700 | 000300 | | | BIS | #300,R0 | ISET FORMAT |
| 1353 | 610216 | 010077 | 170320 | | | MOV | RO, OTC | SELECT ILLEGAL SLAVE |
| 1354 | 010222 | 012777 | 000071 | 170260 | | MOV | 071,0C1 | LOAD READ+GO |
| 1355 | 010230 | 012701 | 040000 | | | MOV | 040000,R1 | ISET TEST WORD |
| 1356 | 010234 | 017702 | 170264 | | | MOV | OER, R2 | READ ER |
| 1357 | 010240 | 030102 | | | | BIT | R1,R2 | ISEE IF EXPTORCYD |
| 1350 | 010242 | 001011 | | | | BNE | LT32A | IT SOL BR |
| 1359 | 010244 | 012767 | 034075 | 170420 | | NOV | eTH834, ERADO | SET ERROR CODE |
| 1360 | 010252 | 012767 | 000001 | 170436 | | MOV | 01,EXFL | SET ERROR CODE |
| 1361 | 010260 | 884767 | 011522 | | | JSR | PC, LTGERS | GO PRINT ERROR |
| 1362 | 010264 | 000404 | | | | BR | LT32X | 100 butus purou |
| 1363 | 010266 | 020102 | | | | | | |
| | | | | | LT32A: | CMB | R1,R2 | SEE IF UNEXPECTED ERRORS |
| 1364 | 010270 | 001402 | | | | BEQ | LT32X | ; IF NOT: BR |
| 1365 | 010272 | 004767 | 011476 | | | JSR | PC, LTGER3 | FELSE PRINT ERROR |
| 1366 | 010276 | 004767 | 013116 | | LT32XI | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 1367 | 010302 | 004767 | 012156 | | | JSR | PC, DRVCLR | |
| 1368 | 010306 | 000167 | 171604 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 1369 1370 1371 1372 1373 | | | | | | PRIVE | STATUS(DS) AND T | ERTAIN CONDITONS WHICH DO NOT |
|--------------------------------------|--------|--------|--------|--------|---------|-------|------------------|-------------------------------|
| 1375 | | | | | | LOGIC | TEST 11: POSITIO | NING IN PROGRESS(PIP) |
| 1376 | | | | | | , | | Sur Phoopsed (Pop) |
| 1377 | 010312 | 012767 | 031272 | 170302 | LT33: | MOY | MSLT33, EMADDR | ISET TEST HEADER |
| 1370 | 010320 | 012767 | 010326 | 170364 | | MOV | *LT33IT, SCOLP | ISET SCOPE ADDRESS |
| 1379 | 010326 | 004767 | 013150 | | LT33IT: | JSR | PC, INIT1 | INIT, SELECT DRIVE+SLAVE |
| 1300 | 010332 | 012777 | 000013 | 170174 | | MOV | 013,0MR | ISET WAN 2 |
| 1381 | 010340 | 012777 | 177777 | 170150 | | MOV | e-1, erc | ISET FCS |
| 1382 | 010346 | 012777 | 000031 | 170134 | | MOV | #31, #C1 | LOAD SPACE FORWARD+GO |
| 1303 | 010354 | 032777 | 020000 | 170140 | | BIT | \$20000, \$DS | ISEE IF PIPOL |
| 1384 | 010362 | 001010 | | | | BNE | LT33X | IF SOI BR |
| 1385 | 010364 | 012767 | 033655 | 170300 | | MOV | STM814, ERADD | ISET ERROR CODE |
| 1386 | 010372 | 012767 | 000001 | 170316 | | NOV | 01,EXPL | ISET ERROR CODE |
| 1307 | 010400 | 884767 | 011402 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1300 | 010404 | 884767 | 013010 | | LT33X: | JSR | PC, ITER | IGO SEE IF ITERATIONS |
| 1389 | 010410 | 889167 | 171502 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 1390 | | | | | | LOGIC | TEST 34: PHASE E | NCODED STATUS(PES) |
|------|--------|--------|--------|--------|---------|-------|------------------|-----------------------------|
| 1392 | 010414 | 005767 | 170242 | | LT341 | TST | HREOF | SEE IF MRE ONLY |
| 1394 | | | 110242 | | n1341 | BNE | | |
| | 010420 | 001054 | | | | | LT34XX | 11F 801 BR |
| 1395 | 010422 | 012767 | 033575 | 170242 | | MOA | oTMS6, ERADD | SET ERROR CODE |
| 1396 | 010430 | 012767 | 031326 | 170164 | | MOA | MALT34, EMADDR | SET TEST HEADER |
| 1397 | 010436 | 012700 | 000004 | | LT34IT: | | 14,R0 | |
| 1398 | 010442 | 884767 | 013034 | | LT34A11 | JSR | PC, INIT1 | GO INIT, SELECT DRIVE+SLAVE |
| 1399 | 010446 | 042777 | 003400 | 170066 | | BIC | #3400,0TC | SELECT NRII |
| 1400 | 010454 | 032777 | 000040 | 170040 | LT34A: | BIT | 140,0D8 | ISEE IF PESOS |
| 1401 | 010462 | 001410 | | | | BEQ | LT34B | IT SOI BR |
| 1402 | 010464 | 012767 | 000002 | 170224 | | MOV | 02,EXPL | SET RCVD-NOT EXPT |
| 1403 | 010472 | 012767 | 010442 | 170212 | | MOV | OLT34A1, SCOLP | SET SCOPE ADDRESS |
| 1404 | 910500 | 884767 | 011302 | | | JSR | PC, LTGERO | GO PRINT ERROR |
| 1405 | 010504 | 062777 | 000400 | 170030 | LT34B: | ADD | 1400,0TC | BUMP DENSITY |
| 1406 | 010512 | 005300 | | | | DEC | RØ | SEE IF DONE ALL NREI |
| 1407 | 010514 | 001357 | | | | BNE | LT34A | IF NOT: BR |
| 1408 | 010516 | 032777 | 000040 | 167776 | LT34C1 | BIT | | |
| 1409 | | | 000040 | 101110 | DISACI | | 040,0D8 | :SEE IF PES-1 |
| | 010524 | 001010 | | | | BNE | LT34X | 11F 801 BR |
| 1410 | 010526 | 012767 | 010516 | 170156 | | MOA | eLT34C, SCOLP | SET SCOPE ADDRESS |
| 1411 | 016534 | 012767 | 000001 | 170154 | | HOY | 01,EXPL | ; SET EXPT-NOT RCVD FLAG |
| 1412 | 010542 | 884767 | 011240 | | | JSR | PC, LTGERO | GO PRINT ERROR |
| 1413 | 010546 | 004767 | 012646 | | LT34X1 | JSR | PC, ITER | GO SEE IF ITERATION |
| 1414 | 010552 | 999167 | 171340 | | LT34XX: | JMP | TSCD2 | RETURN TO SCHED |

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| 1415 | | | | | | , LOGIC | TEST 35: TAPE CO | NTROL WRITE(TCW) |
|------|---------------|--------|--------|--------|---------|---------|------------------|----------------------------|
| 1417 | | | | | | | | |
| 1418 | 010556 | 012767 | 034120 | 170106 | LT351 | MOA | OTH837, ERADD | |
| 1419 | 010564 | 012767 | 031362 | 170030 | | MOA | MALTIS, EMADOR | |
| 1420 | 010572 | 884767 | 012704 | | LT35ITE | JSR | PC, INIT1 | ; INIT SELECT DRIVE, SLAVE |
| 1421 | 010576 | 032777 | 000020 | 167716 | 101 | BIT | 020,0D8 | ISEE IF SOWN IS RESET |
| 1422 | 010604 | 001374 | | | | BNE | 18 | IF NOT: BR |
| 1423 | 010606 | 052777 | 000300 | 167726 | | 818 | 0300,0TC | ISET FORMAT |
| 1424 | 010614 | 012777 | 000015 | 167712 | | HOY | 015,0MR | ISET WAN 3 |
| 1425 | 010622 | 012777 | 000071 | 167660 | | | | |
| | | | | | | MOA | 071,0C1 | LOAD READ+GO |
| 1426 | 010630 | 032777 | 020000 | 167704 | | BIT | #20000,0TC | ISEE IF TOWN |
| 1427 | 010636 | 001410 | | | | 920 | LT35A |) IF 801 BR |
| 1420 | 010640 | 012767 | 000002 | 170050 | | MOA | 02,EXPL | SET RCV-NOT EXPT PLAG |
| 1429 | 010646 | 012767 | 010572 | 170036 | | HOY | eLT35IT, SCOLP | SET SCOPE ADDRESS |
| 1430 | 010654 | 004767 | 011126 | | | JSR | PC, LTGERS | GO PRINT ERROR |
| 1431 | 010660 | 004767 | 017,16 | | LT35A: | JSR | PC, INIT1 | TINIT |
| 1432 | 010664 | 005077 | 167652 | | | CLR | OTC | WRITE TO TC |
| 1433 | 910670 | 032777 | 020000 | 167644 | | BIT | #20000, OTC | ISEE IF TOWN |
| 1434 | 010676 | 001010 | | | | BNE | LT35X | ; IF 80; BR |
| 1435 | 010700 | 012767 | 010660 | 170004 | | NOV | OLT35A, SCOLP | SET SCOPE ADDRESS |
| 1436 | 010706 | 012767 | 000001 | 170002 | | HOV | 01,EXFL | |
| | | | | | | | | ISE EXPT-NOT RCVD PLAG |
| 1437 | 010714 | 004767 | 011066 | | | JBR | PC, LTGERO | GO PRINT ERROR |
| 1430 | 010720 | 004767 | 012474 | | LT35X: | JBR | PC, ITER | |
| 1439 | 010724 | 000167 | 171166 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 1440 | | | | | | LOGIC | TEST 36: FRAME C | COUNTER STATUS(FCS) |
|------|--------|--------|--------|--------|---------|-------|------------------|----------------------------|
| 1442 | | | | | | | | |
| 1443 | 010730 | 012767 | 031424 | 167664 | LT361 | MOV | MSLT36, EMADDR | |
| 1444 | 010736 | 012767 | 034126 | 167726 | | MOV | #TMS38, ERADD | SET ERROR CODE |
| 1445 | 010744 | 004767 | 012532 | | LT36IT: | JSR | PC, INIT1 | ; INIT, SELECT DRIVE+SLAVE |
| 1446 | 010750 | 032777 | 040000 | 167564 | | BIT | \$40000, OTC | ISEE IF FCS=0 |
| 1447 | 010756 | 001410 | | | | BEO | LT36A | IF SO: BR |
| 1448 | 010760 | 012767 | 010744 | 167724 | | MOV | *LT36IT, SCOLP | SET SCOPE ADDRESS |
| 1449 | 010766 | 012767 | 000002 | 167722 | | MOV | #2,EXFL | SET RCVD-NOT EXPT |
| 1450 | 010774 | 004767 | 911006 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1451 | 011000 | 004767 | 012476 | | LT36A: | JSR | PC, INIT1 | INIT |
| 1452 | 011004 | 005077 | 167506 | | 213011 | CLR | OFC | WRITE TO FC |
| 1453 | 011010 | 032777 | 040000 | 167524 | | BIT | \$40000,0TC | ISEE IF FCS=1 |
| 1454 | 011016 | 001010 | | | | BNE | LT36X | IF SOL BR |
| 1455 | 011020 | 012767 | 011000 | 167664 | | MOV | PLT36A, SCOLP | SET SCOPE ADDRESS |
| 1456 | 011026 | 012767 | 000001 | 167662 | | MOV | #1,EXFL | SET EXPT-NOT RCVD |
| 1457 | 011034 | 004767 | 010746 | 20,002 | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1458 | 011040 | 004767 | 012354 | | LT36X: | JSR | PC, ITER | 100 PKINI ERROR |
| 1459 | 011044 | 000167 | 171046 | | DIJOXI | JMP | TSCD2 | RETURN TO SCHED |

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| 1460 | | | | | | | | |
|-------|--------|--------|------------|--------|---------|--------|------------------|----------------------------|
| | | | | | | Inogic | TEST 3/1 ACCEPEN | ATION(ACCL) |
| 1462 | | | | | | | | |
| 1463 | 011050 | 012767 | 031466 | 167544 | LT37: | MOA | #MSLT37, EMADDR | |
| 1464 | 011056 | 012767 | 034134 | 167606 | | NOV | #TMS39, ERADD | SET ERROR CODE |
| 1465 | 011064 | 004767 | 012412 | | LT37IT: | JSR | PC, INIT1 | ; INIT, SELECT DRIVE+SLAVE |
| 1466 | 011070 | 052777 | 000300 | 167444 | | BIS | #300,0TC | ISET FORMAT |
| 1467 | 011076 | 905777 | 167440 | | | TST | OTC | ISEE IF ACCL=1 |
| 1468 | 011102 | 100410 | | | | BMI | LT37A | 117 801 BR |
| 1469 | 011104 | 012767 | 000001 | 167604 | | MOV | #1,EXFL | 14. 001 0 |
| 1470 | 011112 | 012767 | 011064 | 167572 | | MOV | *LT37IT, SCOLP | SET SCOPE ADDRESS |
| 1471 | 011120 | 004767 | 010662 | | | JSR | PC, LTGERØ | |
| 1472 | 011124 | 004767 | 012352 | | LT37A: | JSR | | GO PRINT ERROR |
| 1473 | 011130 | 052777 | 000300 | 147404 | DISTAL | | PC, INIT1 | INIT |
| | | | | 167404 | | BIS | #300, #TC | SET FORMAT |
| 1474 | 011136 | 012777 | 000015 | 167370 | | MOA | 015,0MR | SET WAN 3 |
| 1475 | 011144 | 012777 | 000071 | 167336 | | MOA | 071,0C1 | ; LOAD READ+GO |
| 1476 | 011152 | 012700 | 100000 | | | MOV | #100000, RO | 18ET ACCL DELAY |
| 1477 | 011156 | 005777 | 167360 | | LT37B: | TST | OTC | SEE IF ACCL=0 |
| 1470 | 011162 | 100012 | | | | BPL | LT37X | ; IF 80: BR |
| 1479 | 011164 | 005300 | | | | DEC | RO | |
| 1480 | 011166 | 001373 | | | | BNE | LT37B | DELAY |
| 1481 | 011170 | 012767 | 011124 | 167514 | | MOV | *LT37A, SCOLP | SET SCOPE ADDRESS |
| 1402 | 011176 | 912767 | 000002 | 167512 | | MOV | #2,EXFL | , 30010 |
| 1483 | 011204 | 004767 | 010576 | | | JSR | PC. LTGERO | IGO PRINT ERROR |
| 1484 | 011210 | 004767 | 012204 | | LT37X1 | JSR | PC, ITER | 140 Lugus Puron |
| 1405 | 011214 | 000167 | 170676 | | 213/41 | JMP | | |
| . 405 | | 200101 | . / 00 / 6 | | | UMP | TSCD2 | RETURN TO SCHED |
| | | | | | | | | |

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| 1486 | | | | | | LOGIC | TEST 40: PE TAPE | MARK (TM) |
|--|--------|--------|--------|--------|---------|-------|------------------|----------------------------|
| 1488 | | | | | | | | |
| 1409 | 011220 | 005767 | 167436 | | LT40: | TST | NRZOF | SEE IF NRE ONLY |
| 1490 | 011224 | 991946 | | | | BNE | LT46XX | IF SOI BR |
| 1491 | 011226 | 012767 | 011242 | 167456 | | MOV | *LT40IT, SCOLP | SET SCOPE ADDRESS |
| 1492 | 011234 | 012767 | 031531 | 167360 | | MOV | MSLT40, EMADDR | LOST SCOLE MANKEDS |
| 1493 | 011242 | 004767 | 012234 | 201300 | LT40IT: | JSR | | |
| The same of the sa | | | 012234 | | PIGOTII | | PC, INIT1 | ; INIT, SELECT DRIVE+SLAVE |
| 1494 | 011246 | 005000 | | | | CLR | RO | |
| 1495 | 011250 | 005300 | | | LT40W: | DEC | RO | |
| 1496 | 011252 | 001376 | | | | BNE | LT40W | DELAY FOR OPI RESET |
| 1497 | 011254 | 052777 | 002300 | 167260 | | BIS | #2300,0TC | |
| 1498 | 011262 | 012777 | 000007 | 167244 | | MOV | 07, ONR | ; SET WAM 0 |
| 1499 | 011270 | 012777 | 000027 | 167212 | | MOV | 027,0C1 | LOAD WRITE TAPE MARK+GO |
| 1500 | 011276 | 012700 | 100000 | | | MOV | 0100000,R6 | ISET DELAY |
| 1501 | 011302 | 032777 | 000004 | 167212 | LT40A: | BIT | 04,0D8 | ISEE IF THE1 |
| 1502 | 011310 | 001012 | | | | BNE | LT40X | IF SOL BR |
| 1503 | 011312 | 005300 | | | | DEC | RØ | 121 001 01 |
| 1504 | 011314 | 001372 | | | | BNE | | |
| | | | | 469946 | | | LT40A | DELAY |
| 1505 | 011316 | 012767 | 033553 | 167346 | | MOV | #TM83, ERADD | |
| 1506 | 011324 | 012767 | 000001 | 167364 | | MOY | 01,EXFL | |
| 1507 | 011332 | 884767 | 010450 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1508 | 011336 | 004767 | 012056 | | LT40X: | JSR | PC, ITER | |
| 1509 | 011342 | 000167 | 170550 | | LT40XX: | JMP | TSCD2 | RETURN TO SCHED |
| | | | | | | | | |

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| 1510 | | | | | | | | |
|------|--------|--------|--------|--------|---------|-------|------------------|-----------------------------|
| 1511 | | | | | | LOGIC | TEST 41: NRE TAP | E MARK (TH, VPE, ITH) |
| 1512 | | | | | | | | |
| 1513 | 011346 | 012767 | 011362 | 167336 | LT411 | NOV | *LT41IT, SCOLP | ; SET SCOPE ADDRESS |
| 1514 | 011354 | 912767 | 031576 | 167240 | | NOV | #HSLT41, EMADDR | |
| 1515 | 011362 | 884767 | 012114 | | LT41ITE | JSR | PC.INIT1 | ; INIT, SELECT DRIVE, SLAVE |
| 1516 | 011366 | 004767 | 005226 | | | JSR | PC, BOTT | GO ASSURE NOT AT BOT |
| 1517 | 011372 | 052777 | 001700 | 167142 | | BIS | #1700.0TC | ISET NRE+NORMAL FORMAT |
| 1518 | 011400 | 012777 | 177760 | 167110 | | MOY | 0-20,0FC | ISET FCS |
| 1519 | 011406 | 012777 | 800007 | 167120 | | MOV | #7, OMR | ISET WAN O |
| 1520 | 011414 | 012777 | 000027 | 167066 | | MOA | 027,0C1 | ;LOAD WRITE TAPE MARK+GO |
| 1521 | 011422 | 805000 | | | | CLR | RO | |
| 1522 | 011424 | 032777 | 000004 | 167070 | LT41A: | BIT | #4, 0DS | ISEE IF THE1 |
| 1523 | 011432 | 001012 | | | | BNE | LT41B | ; IF 80; BR |
| 1524 | 011434 | 805300 | | | | DEC | RO | |
| 1525 | 011436 | 001372 | | | | BNE | LT41A | DELAY |
| 1526 | 011440 | 012767 | 033553 | 167224 | | MOA | erado | SET ERROR CODE |
| 1527 | 011446 | 812767 | 000001 | 167242 | | MOA | #1,EXFL | |
| 1528 | 011454 | 004767 | 010326 | | | JER | PC, LTGERS | GO PRINT ERROR |
| 1529 | 011460 | 032777 | 002000 | 167036 | LT41B: | BIT | #2000, 0ER | ISEE IF ITHEL |
| 1530 | 011466 | 001010 | | | | BNE | LT41C | ; IF 80; BR |
| 1531 | 011470 | 012767 | 034016 | 167174 | | MOV | eTMS30, ERADD | SET ERROR CODE |
| 1532 | 011476 | 012767 | 000001 | 167212 | | NOV | e1,EXFL | |
| 1533 | 011504 | 994767 | 010276 | | | JSR | PC, LTGERS | GO PRINT ERROR |
| 1534 | 011510 | 032777 | 000100 | 167006 | LT41C1 | BIT | #100,0ER | ISEE IF VPE=1 |
| 1535 | 011516 | 001011 | | | | BNE | LT41D | ; IF 80; BR |
| 1536 | 011520 | 012767 | 034003 | 167144 | | MOV | THS28, ERADD | SET ERROR CODE |
| 1537 | 011526 | 012767 | 000001 | 167162 | | MOA | *1,EXFL | |
| 1538 | 011534 | 884767 | 010246 | | | JBR | PC, LTGERØ | GO PRINT ERROR |
| 1539 | 011540 | 000410 | | | | BR | LT41X | |
| 1540 | 011542 | 012701 | 002100 | | LT41D: | MOV | #2100,R1 | SET EXPT ERROR BITS |
| 1541 | 011546 | 017702 | 166752 | | | MOA | OER, R2 | GET ERROR REGISTER |
| 1542 | 011552 | 020102 | | | | CHP | R1, R2 | SEE IF UNEXPECTED ERRORS |
| 1543 | 011554 | 001402 | | | | BEQ | LT41X | ; IF NOT: BR |
| 1544 | 011556 | 004767 | 010212 | | | JSR | PC, LTGER3 | ELSE PRINT ERROR |
| 1545 | 011562 | 005002 | | | LT41X: | CLR | R2 | ISET TIMER |
| 1546 | 011564 | 032777 | 000200 | 166730 | 161 | BIT | #200, PDS | ISEE IF DRY SET |
| 1547 | 011572 | 001002 | | | | BNE | 26 | ; IF 80; BR |
| 1540 | 011574 | 005302 | | | | DEC | R2 | AWAIT DRY |
| 1549 | 011576 | 001372 | | | | BNE | 16 | DELAY |
| 1550 | 011600 | 004767 | 011614 | | 281 | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 1551 | 011604 | 004767 | 010654 | | | JSR | PC, DRVCLR | GO DO DRIVE CLEAR |
| 1552 | 011610 | 000167 | 170302 | | | JMP | TSCD2 | RETURN TO SCHED |

TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 46 DETUCE.P11 1553 THE FOLLOWING 13 TESTS WILL CHECK DATA FORMATTING 1554 AND TRANSFER THROUGH THE THOS WRAP AROUND MODES 1555 1556 ; LOGIC TEST 42: WRAP 3, NRE, NORMAL ODD 1557 1558 012767 984278 167176 LT421 NOV 011614 84270, WC81 SET EXPT CS1 1559 011622 012767 000100 167172 NOV 0100, WC82 :SET EXPT CS2 1560 011630 012767 010600 167166 MOV \$10600, WDS ISET EXPT DS NOV 1561 011636 012767 000000 167162 .O. WER ISET EXPT ER 012767 031645 166750 MOV SMSLT42, EMADDR 1562 011644 ISET HEADER 812767 001700 VOM 01700, UDES 1563 011652 167116 ISET WAZ, NORMAL, ODD 1564 911660 005067 167116 LT42A: CLR PATRN POINT TO PATTERN 8 012767 167828 1565 011664 011672 MOV #LT42B, SCOLP ISET SCOPE ADDRESS 1566 011672 004767 003706 LT428: JSR PC, WANS 160 DO WRAP 3 1567 005267 167100 INC PATRN BUMP PATTERN POINTER 011676 000004 167072 BIT 1568 011702 032767 04, PATRN SEE IF DONE 1569 011710 001770 BEQ LT42B ; IF NOT: BR 1570 011712 884767 011502 JSR PC, ITER 160 SEE IF ITERATIONS 1571 011716 005067 167064 CLR RDRYF CLEAR REVENUE FLAG 1572 011722 000167 170170 JMP TSCD2 RETURN TO SCHEDULAR

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| 1573 1574 | | | | | | LOGIC | TEST 43: WRAP 3, | PE, NORMAL, ODD |
|--------------|--------|--------|--------|--------|--------|-------|------------------|-----------------------|
| 1575 | 011726 | 005767 | 166730 | | LT431 | TST | NRZOF | SEE IF MRE ONLY |
| 1577 | 011732 | 001402 | | | | BEQ | LT43A | IF NOT: BR |
| 1578 | 011734 | 000167 | 170156 | | | JMP | TSCD2 | RETURN TO SCHED |
| 1579 | 011740 | 012767 | 984278 | 167052 | LT43At | MOA | 84276, WC81 | ISET EXPT CS1 |
| 1580 | 011746 | 012767 | 666196 | 167046 | | MOV | #100, WC82 | ISET EXPT CS2 |
| 1501 | 011754 | 012767 | 010640 | 167042 | | MOV | *10640, WD8 | SET EXPT DS |
| 1502 | 011762 | 012767 | 000000 | 167036 | | MOV | 40, WER | SET EXPT WER |
| 1503 | 011770 | 012767 | 031714 | 166624 | | MOV | MALT43, EMADDR | ISET HEADER |
| 1584 | 011776 | 012767 | 002300 | 166772 | | MOV | #2300, UDES | SET PE, NORMAL, ODD |
| 1585 | 012004 | 000167 | 177650 | | | JMP | LT42A | EXECUTE TEST SEQUENCE |

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| 1586 1587 1588 | | | | | | LOGIC | TEST 44: WRAP 2, | NRE, NORMAL, ODD |
|----------------------|--------|--------|--------|--------|--------|-------|------------------|--------------------------|
| 1509 | 012010 | 012767 | 004260 | 167002 | LT441 | MOV | #4260, WC81 | ISET EXPT CS1 |
| 1590 | 012016 | 012767 | 000100 | 166776 | | MOV | #100, WC82 | SET EXPT CS2 |
| 1591 | 012024 | 012767 | 010600 | 166772 | | MOV | 010600, WDS | SET EXPT DS |
| 1592 | 012032 | 012767 | 000000 | 166766 | | MOV | 00, WER | SET EXPT WER |
| 1593 | 012040 | 012767 | 031762 | 166554 | | MOV | MALT44, EMADDR | SET HEADER |
| 1594 | 012046 | 012767 | 001700 | 166722 | | MOV | 61788, UDES | ISET TO NRZ, NORMAL, ODD |
| 1595 | 012054 | 005067 | 166722 | | LT44A: | CLR | PATRN | POINT TO PATTERN 6 |
| 1596 | 012060 | 012767 | 012066 | 166624 | | MOY | eLT44B, SCOLP | SET SCOPE ADDRESS |
| 1597 | 012066 | 004767 | 003446 | | LT44B: | JSR | PC, WAN2 | GO DO WRAP 2 |
| 1598 | 012072 | 005267 | 166704 | | | INC | PATRN | BUMP POINTER |
| 1599 | 012076 | 032767 | 000004 | 166676 | | BIT | 04, PATRN | SEE IF DONE |
| 1600 | 012104 | 001770 | | | | BEQ | LT44B | IF NOTE BR |
| 1601 | 012106 | 004767 | 011306 | | | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 1602 | 012112 | 000167 | 170000 | | | JMP | TSCD2 | RETURN TO SCHEDULAR |

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| 1603 | | | | | | LOGIC | TEST 45: WRAP 2, | PE, NORMAL, ODD |
|------|------------------|------------------|--------|--------|--------|-------|---------------------------|---------------------------|
| 1605 | 012116 | 805767 | 166540 | | LT45: | TST | NRZOF | SEE IF NRE ONLY |
| 1607 | 012122 | 001402 | | | | BEQ | LT45A | ; IF NOT: BR |
| 1609 | 012124 | 999167 912767 | 167766 | 166662 | LT45A1 | JMP | TSCD2 | RETURN TO SCHED |
| 1610 | 012136 | 012767 | 000100 | 166656 | PIGONI | MOA | #4260, WC81 #100, WC82 | SET EXPT CS1 |
| 1611 | 012144 | 012767 | 010640 | 166652 | | NOV | #10640, WDS | SET EXPT DS |
| 1612 | 012152 | 012767 | 000000 | 166646 | | MOV | OO, WER | JAET EXPT WER |
| 1613 | 012160 012166 | 012767 012767 | 032031 | 166434 | | MOA | #MSLT45, EMADDR | SET HEADER |
| 1615 | 012174 | 000167 | 177654 | | | JMP | LT44A | GO EXECUTE TEST SEQUENCES |

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| 1616 | | | | | | ·LOGIC | | NRZ, NORMAL, ODD |
|------|--------|--------|--------|--------|--------|---------|------------------|-----------------------|
| 1618 | | | | | | , 20020 | rear dat munh 11 | HRE, HURHAL, UDDESSES |
| 1619 | 012200 | 012767 | 004260 | 166612 | LT46: | MOV | 04260, WC81 | ISET EXPT CS1 |
| 1620 | 012206 | 012767 | 000100 | 166606 | | MOV | #100, WC82 | ISET EXPT CA2 |
| 1621 | 012214 | 012767 | 010600 | 166602 | | MOV | #10600, WDS | ISET EXPT DS |
| 1622 | 012222 | 012767 | 000000 | 166576 | | MOV | 00, WER | ISET EXPT WER |
| 1623 | 012230 | 012767 | 032077 | 166364 | | MOV | MALT46, EMADDR | ISET HEADER |
| 1624 | 012236 | 012767 | 001700 | 166532 | | MOV | #1700, UDES | SET NRE, NORMAL, ODD |
| 1625 | 012244 | 005067 | 166532 | | LT46A1 | CLR | PATRN | POINT TO PATTERN ZERO |
| 1626 | 012250 | 012767 | 012256 | 166434 | | NOV | *LT46B, SCOLP | ISET SCOPE ADDRESS |
| 1627 | 012256 | 884767 | 003244 | | LT46B: | JSR | PC, WAM1 | JGO DO WRAP 1 |
| 1620 | 012262 | 005267 | 166514 | | | INC | PATRN | BUMP POINTER |
| 1629 | 012266 | 032767 | 000004 | 166506 | | BIT | #4. PATRN | ISEE IF DONE |
| 1630 | 012274 | 001770 | | | | BEQ | LT46B | JIF NOT: BR |
| 1631 | 012276 | 004767 | 011116 | | | JSR | PC, ITER | IGO SEE IF ITERATIONS |
| 1632 | 012302 | 000167 | 167610 | | | JMP | TSCD2 | RETURN TO SCHEDULAR |

| TM02/TU ZTUCE. | P11 | or rocic | TEST | NACY11 | 27(732) | 18-MAR | -76 13:16 PAGE | 51 |
|-------------------|--------|----------|--------|--------|---------|--------|------------------|---------------------------|
| 1633 | | | | | | | | |
| 1634 | | | | | | POGIC | TEST 471 WRAP 1, | PE, NORMAL, ODD |
| 1635 | | | | | | | | |
| 1636 | 012306 | 005767 | 166350 | | LT47: | TST | NRZOF | ISEE IF NRZ ONLY |
| 1637 | 012312 | 001402 | | | | BEQ | LT47A | IF NOTE BR |
| 1630 | 012314 | 000167 | 167576 | | | JMP | TSCD2 | RETURN TO SCHED |
| 1639 | 012320 | 004767 | 007202 | | LT47A: | JSR | PC, PPGEN | GO GENERATE PRE/POSTAMBLE |
| 1640 | 012324 | 012767 | 004260 | 166466 | | MOV | #4260, WC81 | ISET EXPT CS1 |
| | | | | | | | | |
| 1641 | 012332 | 012767 | 000100 | 166462 | | MOA | #100, WC82 | SET EXPT C82 |
| 1642 | 012340 | 012767 | 010640 | 166456 | | VOM | #10640, WDS | SET EXPT DS |
| 1643 | 012346 | 012767 | 000000 | 166452 | | MOV | WER | SET EXPT WER |
| 1644 | 012354 | 012767 | 632146 | 166240 | | MOV | MALT47, EMADDR | SET HEADER |
| 1645 | 012362 | 012767 | 002300 | 166406 | | MOV | #2300, UDES | SET PE, NORMAL, ODD |
| 1646 | 012370 | 000167 | 177650 | | | JMP | LT46A | IGO EXECUTE TEST SEQUENCE |
| | | | | | | | | |

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| 1647 | | | | | | -10010 | | NEE NORMAL ODD |
|------|--------|--------|--------|--------|--------|--------|------------------|-----------------------|
| 1648 | | | | | | Innerc | TEST SET MENT S' | NRZ, NORMAL, ODD |
| 1649 | | | | | | | | |
| 1650 | 012374 | 012767 | 144260 | 166416 | LT50: | MOV | #144260, WC81 | ; SET EXPT CS1 |
| 1651 | 012402 | 012767 | 000100 | 166412 | | NOV | 0100, WC82 | ISET EXPT CS2 |
| 1652 | 012410 | 012767 | 150600 | 166406 | | MOV | #150600, WDS | ISET EXPT DS |
| 1653 | 012416 | 012767 | 000200 | 166402 | | MOV | 0200, WER | SET EXPT ER |
| 1654 | 012424 | 012767 | 032214 | 166170 | | MOV | MALTSO, EMADDR | SET HEADER |
| 1655 | 012432 | 012767 | 001700 | 166336 | | NOV | 01786, UDES | ISET NRZ, NORMAL, ODD |
| 1656 | 012440 | 005067 | 166336 | | LTSOA: | CLR | PATRN | POINT TO PATTERN . |
| 1657 | 012444 | 012767 | 012452 | 166240 | | MOV | *LTSOB, SCOLP | SET SCOPE ADDRESS |
| 1658 | 012452 | 004767 | 003004 | | LTSOB: | JSR | PC, WAME | 1GO DO WRAP 6 |
| 1659 | 012456 | 995267 | 166320 | | | INC | PATRN | BUMP POINTER |
| 1660 | 012462 | 832767 | 000004 | 166312 | | BIT | 04, PATRN | SEE IF DONE |
| 1661 | 012470 | 801778 | | | | BEQ | LTSOB | ; IF NOT: BR |
| 1662 | 012472 | 004767 | 010722 | | | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 1663 | 012476 | 000167 | 167414 | | | JMP | TSCD2 | RETURN TO SCHEDULAR |

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| 1664 | | | | | | | | |
|--|--------|--------|--------|--------|--------|-------|------------------|--|
| | | | | | | | | |
| 1665 | | | | | | POGIC | TEST 51: WHAP 0, | PE, NORMAL, ODD |
| 1666 | | | | | | | | |
| 1667 | 012502 | 005767 | 166154 | | LT511 | TST | NRZOF | ; SEE IF MRE ONLY |
| 1668 | 012506 | 001402 | | | | BEQ | LT51A | |
| | | | | | | | | ; IF NOT: BR |
| 1669 | 012510 | 800167 | 167402 | | | JMP | TSCD2 | RETURN TI SCHED |
| 1670 | 012514 | 812767 | 004260 | 166276 | LT51At | MOV | #4260, WC81 | SET EXPT CS1 |
| 1671 | 012522 | 012767 | 000100 | 166272 | | HOY | #100, WC82 | ISET EXPT CS2 |
| | | | | | | | | |
| 1672 | 012530 | 012767 | 019640 | 166266 | | MOV | #10640, WDS | ISET EXPT DS |
| 1673 | 012536 | 012767 | 000000 | 166262 | | MOV | WER | SET EXPT ER |
| 1674 | 012544 | 012767 | 032263 | 166050 | | NOV | MALTS1, EMADDR | ISET HEADER |
| 1675 | 012552 | 812767 | 002300 | 166216 | | | | |
| The same of the sa | | | | 100210 | | MOA | #2300, UDES | ISET PE, NORMAL, ODD |
| 1676 | 012560 | 000167 | 177654 | | | JMP | LTSOA | GO EXECUTE TEST SEQUENCE |
| | | | | | | | | 내가 주는 가는 가는 가는 하면 하면서 하면 하는 것이다. 그렇게 하는 것이 그는 것이 하는 것이 모든 것이 모든 것이 없다. |

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| | | | | | LOGIC | TEST 52: CORE DU | MP WRITE. WAMPAGAGAG |
|----------|----------|--|---|--|--|------------------|--|
| | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | ne masse, management |
| | 912767 | 004260 | 166226 | LTS21 | MOV | 04260, WC81 | ISET EXPT CS1 |
| 1 012572 | 012767 | 000100 | 166222 | | MOY | #160, WC82 | ISET EXPT CS2 |
| 2 012600 | 012767 | 010600 | 166216 | | the same of the sa | | ISET EXPT DA |
| 3 012606 | 012767 | 000000 | | | | | JAET EXPT ER |
| | | | | | | | ISET HEADER |
| | | | | | | | SET MRE, CORE DUMP, ODD |
| | | | | | | | POINT TO PATTERN . |
| | | | 166050 | | | | ISET SCOPE ADDRESS |
| | | | | LTS2A1 | | | 1GO DO WAM 2 |
| | | | 166126 | | | | ISEE IF DONE |
| | | | | | | | IF SOI BR |
| | | 000002 | 166116 | | | | SELECT PATTERN 2 |
| | | | | | | | CONTINUE |
| | | 010526 | | 1.75374 | The state of the s | | |
| | | | | DIGEN | | | GO SEE IF ITERATIONS |
| | 000101 | 10/220 | | | Out | 19002 | RETURN TO SCHEDULES |
| | 1 012572 | 0 012564 012767 1 012572 012767 12 012600 012767 13 012606 012767 14 012614 012767 15 012622 012767 16 012630 005067 17 012634 012767 18 012642 004767 19 012646 022767 10 012654 001404 11 012656 012767 12 012664 000766 13 012666 004767 | 0 012564 012767 004260 11 012572 012767 000100 12 012600 012767 010600 13 012606 012767 000000 14 012614 012767 001720 15 012622 012767 001720 16 012630 005067 166146 17 012634 012767 012642 18 012642 004767 012642 19 012646 022767 000002 10 012654 001404 11 012656 012767 000002 12 012664 000766 13 012666 004767 010526 | 0 012564 012767 004260 166226 11 012572 012767 000100 166222 12 012600 012767 010600 166216 13 012606 012767 000000 166212 14 012614 012767 032331 166000 15 012622 012767 001720 166146 16 012630 005067 166146 17 012634 012767 012642 166050 18 012642 004767 012642 166050 19 012646 022767 000002 166126 10 012654 001404 11 012656 012767 000002 166116 | 0 012564 012767 004260 166226 LT52; 1 012572 012767 000100 166222 12 012600 012767 010600 166216 13 012606 012767 000000 166212 14 012614 012767 032331 166000 15 012622 012767 001720 166146 16 012630 005067 166146 17 012634 012767 012642 166050 18 012642 004767 002672 LT52A1 19 012646 022767 000002 166126 10 012654 001404 11 012656 012767 000002 166116 12 012664 000766 13 012666 004767 010526 LT52X1 | | ### ### ############################## |

TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 55 DETUCE, P11

| 1696 | | | | | | | | |
|------|--------|--------|--------|--------|--------|-------|------------------|----------------------------|
| 1697 | | | | | | LOGIC | TEST 53: CORE DU | MP READ, WAM 30000 |
| 1698 | | | | | | | | |
| 1699 | 012676 | 012767 | 004270 | 166114 | LT53: | MOV | #4270, WCS1 | SET EXPT CS1 |
| 1700 | 012704 | 012767 | 000100 | 166110 | | MOV | #100, WCS2 | ISET EXPT CS2 |
| 1701 | 012712 | 012767 | 010600 | 166104 | | MOV | *10600, WDS | ISET EXPT DS |
| 1702 | 012720 | 012767 | 000000 | 166100 | | NOV | .O. WER | ISET EXPT ER |
| 1703 | 012726 | 012767 | 032402 | 165666 | | MOV | #MSLT53, EMADDR | SET HEADER |
| 1704 | 012734 | 012767 | 001720 | 166034 | | MOV | #1720, UDES | SELECT NRE, CORE DUMP, ODD |
| 1705 | 012742 | 005067 | 166034 | | | CLR | PATRN | SELECT PATTERN 0 |
| 1706 | 012746 | 012767 | 012762 | 165736 | | MOV | #LT53A, SCOLP | ISET SCOPE ADDRESS |
| 1707 | 012754 | 012767 | 001054 | 166026 | | MOV | #WCDPØ, RCDP | POINT TO PATTERN 0 |
| 1708 | 012762 | 004767 | 002616 | | LT53AI | JSR | PC, WAM3 | IGO DO WAM3 |
| 1709 | 012766 | 022767 | 000002 | 166006 | | CMP | #2, PATRN | ISEE IF DONE |
| 1710 | 012774 | 001407 | | | | BEQ | LT53X | ; IF 80; BR |
| 1711 | 012776 | 012767 | 000002 | 165776 | | MOV | #2, PATRN | SELECT PATTERN 2 |
| 1712 | 013004 | 012767 | 001042 | 165776 | | MOV | #WCDP2, RCDP | POINT TO PATTERN 2 |
| 1713 | 013012 | 000763 | | | | BR | LT53A | CONTINUE |
| 1714 | 013014 | 004767 | 010400 | | LT53X: | JSP | PC, ITER | GO SEE IF ITERATION |
| 1715 | 013020 | 000167 | 167072 | | | JMP | TSCD2 | RETURN TO SCHEDULE |

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| 1716 1717 1710 | | | | | | LOGIC | TEST 54: EVEN PA | ARITY WRITE: WAM 1(M8983)***** |
|----------------------|------------------|------------------|--------|--------|-------|-------|----------------------|---|
| 1719 | 013024 013032 | 012767 012767 | 004260 | 165766 | LT54: | MOV | 04260, WC81 | SET EXPT CS1 |
| 1721 | 013040 | 012767 | 010600 | 165756 | | MOV | #10600, WD8 | SET EXPT CS2 |
| 1723 | | 012767 012767 | 000000 | 165752 | | MOV | MSLTS4, EMADDR | ; SET EXPT ER ; SET HEADER |
| 1724 | 013062 013070 | 012767 000167 | 177150 | 165706 | | JMP | #1710, UDES LT46A | ; SET NRZ, NORMAL, EVEN ; GO EXECUTE WAM 1 |

TM82/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 57 DZTUCE,P11

| 1726 1727 1728 | | | | | | LOGIC | TEST 551 EV | VEN PARITY | READ! WAI | 0 (H8983 | H8984)**** |
|----------------------|--------------------------------------|----------------------------|--------------------------------------|--------------------------------------|-------|-------------------|---|------------|--|----------|------------|
| 1729 | 013074 013102 013110 013116 | | 144260 000100 150600 000200 | 165716 165712 165706 165702 | L755; | MOV MOV MOV | #144260, WC #160, WC #150600, WD #200, WER | DS ISET | EXPT CS: EXPT CS: EXPT DS EXPT ER | | |
| 1733 1734 1735 | 013124 013132 013140 | 012767 012767 000167 | 032533 001710 177274 | 165470 | | MOV JMP | MALTSS, EM 01710, UDEA LTSOA | S ISET | HEADER NRZ, NOI DO WAM Ø | MAL, EVE | • |

TM82/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 58 DZTUCE,P11

| 1736 1737 1730 | | | | | | LOGIC | TEST 561 READ RE | VERSE: WAN 3(M8986)**** |
|----------------------|--------|--------|--------|--------|-------|-------|------------------|-------------------------|
| 1739 | 013144 | 812767 | 004276 | 165646 | LT561 | MOV | 04276, WC81 | ISET EXPT CS1 ' |
| 1740 | 013152 | 012767 | 000100 | 165642 | | MOV | 0100, WC82 | ISET EXPT-CS2 |
| 1741 | 013160 | 012767 | 010640 | 165636 | | HOV | #10640, WD8 | ISET EXPT DS |
| 1742 | 013166 | 012767 | 000000 | 165632 | | NOV | .O. WER | ISET EXPT ER |
| 1743 | 013174 | 012767 | 032612 | 165420 | | NOV | MALTS6, EMADDR | SET HEADER |
| 1744 | 013202 | 012767 | 002300 | 165566 | | MOV | 02300, UDES | SELECT PE, NORMAL, ODD |
| 1745 | 013210 | 012767 | 000001 | 165570 | | MOV | #1,RDRVF | SET READ REVERSE FLAG |
| 1746 | 013216 | 000167 | 176436 | | | JMP | LT42A | 160 DO WAM 3, REVERSE |
| 1747 | | | | | | | | |

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| 1748 | | | | | | THE P | OLLOWING SIX(6) T | EST WILL REQUIRE TAPE MOVEMENT. EACH |
|------|------------------|------------------|--------|--------|---------|--|-------------------|--|
| 1750 | | | | | | TEST | WILL PERFORM A TA | PE WRITE WHILE IN A PARITICULAR MAINTENANCE |
| 1751 | | | | | | HODE | IN ORDER TO FORCE | THE REMAINING ERROR CONDITIONS. |
| 1752 | | | | | | | | PERINDAMEN PROPERTY AND ADDRESS OF THE PERINDAMENT AND ADDRESS |
| 1753 | | | | | | Inogic | test 241 cichic | REDUNDANCY ERROR(CRC) |
| 1755 | 013222 | 884767 | 001742 | | LTS7: | JSR | PC, STATIC | GO SEE IF STATIC ONLY |
| 1756 | 013226 | 012700 | 001000 | | | MOV | 01000,R0 | 700 000 11 014116 0401 |
| 1757 | 013232 | 005300 | | | LTS7PS: | and the same of th | RO | |
| 1750 | 613234 | 001376 | | | | BNE | LT57P8 | 1 PAUSE |
| 1759 | 013236 | 012767 | 032657 | 165356 | | MOA | #MSLTS7, EMADDR | |
| 1760 | 013244 | 012767 | 013252 | 165440 | | MOA | \$LTS7IT, SCOLP | SET SCOPE ADDRESS |
| 1761 | 013252 013256 | 004767 052777 | 010224 | 165356 | LT57IT: | The second secon | PC, INIT1 | ; INIT SELECT DRIVE+SLAVE |
| 1763 | 013264 | 012777 | 177770 | 165256 | | MOV | #1700,0TC | SET NRZ + NORMAL FORMAT |
| 1764 | 013272 | 612777 | 177760 | 165216 | | MOV | 0-20,0FC | SET FC=26 |
| 1765 | 013300 | 012777 | 034144 | 165206 | | MOV | OWDATA, OBA | ISET BUS ADDRESS |
| 1766 | | 012777 | 000007 | 165220 | | MOV | 07,0MR | ISET MM CODE |
| 1767 | 013314 | 812777 | 000061 | 165166 | | MOY | #61, #C1 | ; LOAD WRITE+GO |
| 1768 | 013322 | 005000 | | | | CLR | RO | |
| 1769 | 013324 | 032777 | 000200 | 165170 | LT57A: | BIT | *200,0D8 | ISEE IF DRY-1 |
| 1770 | 013332 | 001002 | | | | BNE | LT57B | 11F 801 BR |
| 1771 | 013334 | 005300 | | | | DEC | RO | .00114 |
| 1772 | 013336 013340 | 001372 022777 | 000200 | 165156 | LTS7B: | CMP | LT57A #200,0ER | SEE IF LRC ERROR ONLY |
| 1774 | 013346 | 001007 | 000.00 | 103130 | 8.3.00 | BNE | LT5781 | JIF NOTE BR |
| 1775 | 013350 | 017702 | 165154 | | | MOV | OCC,R2 | GET CHECK CHAR |
| 1776 | 013354 | 042702 | 177000 | | | BIC | 0177000,R2 | HASK CRC |
| 1777 | 013360 | 022702 | 000777 | | | CMP | 0777,R2 | SEE IF SETUP CRC IS CORRECT |
| 1778 | 013364 | 001410 | | | | BEQ | LTS7B2 | 11F 801 BR |
| 1779 | 013366 | 004767 | 006402 | | LT57B1: | | PC, LTGER3 | ; ELSE PRINT ERROR SETUP |
| 1780 | 013372 | 012704 | 027313 | | | MOA | ##8G55,R4 | |
| 1781 | 013376 | 004767 | 010442 | | | JSR | PC, TTOUT | PRINT SETUP ERROR MSG |
| 1782 | 013402 013406 | 000167 | 166510 | | LT57821 | JMP | TSCD2 | RETURN TO SCHED |
| 1784 | 013412 | 052777 | 010070 | 165122 | 213/021 | BIS | PC, INIT1 | JGO INIT JSET FORMAT+NRZ |
| 1785 | 013420 | 012777 | 177770 | 165064 | | MOV | 0-10,0WC | ISET MC |
| 1786 | 013426 | 012777 | 177760 | 165062 | | MOV | 0-20,0FC | ISET FC |
| 1787 | 013434 | 012777 | 034144 | 165052 | | MOV | SWDATA, OBA | ISET BA |
| 1788 | 013442 | 012777 | 000021 | 165064 | | MOV | 821,0MR | ISET HM |
| 1789 | 013450 | 012777 | 000061 | 165032 | | MOA | #61.0C1 | ; LOAD WRITE+GO |
| 1790 | 013456 | 005000 | | | | CLR | RO | |
| 1791 | 013460 | 032777 | 000200 | 165034 | LTS/C: | BIT | #200, ODS | SEE IF DRY |
| 1792 | 013466 013470 | 001002 | | | | DEC | LTS7D RO | IIF SOL BR |
| 1794 | 013472 | 001372 | | | | BNE | LTS7C | JAWAIT DRY |
| 1795 | 013474 | 005777 | 165024 | | LT57D: | TST | DER | SEE IF CRC=1 |
| 1796 | 013500 | 100411 | | | | BMI | LTS7E | IF SOI BR |
| 1797 | 013502 | 012767 | 034112 | 165162 | | MOV | STM836, ERADD | ISET ERROR CODE |
| 1790 | 013510 | 012767 | 000001 | 165200 | | MOV | #1,EXFL | |
| 1799 | 013516 | 004767 | 006264 | | | JSR | PC, LTGERØ | GO PRINT ERROR |
| 1800 | 013522 | 000410 | | | | BR | LT57X | |
| 1801 | 013524 | 012701 | 100200 | | LT57E: | MOV | #100200,R1 | ISET EXPT ERROR BITS |
| 1002 | 013530 013534 | 017702 020102 | 164770 | | | CMB | OER,R2 | GET ERROR REGISTER |
| , | 013334 | 040104 | | | | - | | |

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| 1805 1806 1807 | 013544 013550 | 804767 804767 804767 | 006230 007650 006710 166336 | LTS7X1 | JSR JSR JSR | LTS7X PC,LTGER3 PC,ITER PC,DRVCLR | ; IF NOT: BR ; ELSE PRINT ERROR ; DO ITERATIONS |
|----------------------|------------------|----------------------------|--------------------------------------|--------|-------------------|--|---|
| | 013334 | 200101 | 100330 | | JMP | TSCD2 | FRETURN TO SCHED |

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| 1809 | | | | | | | | |
|------|--------|--------|--------|--------|---------|-------|------------------|----------------------------|
| 1010 | | | | | | LOGIC | TEST 60: LONGITU | ALINAL REDUNDANCY(LRC) |
| 1011 | | | | | | | | |
| 1012 | 013560 | 804767 | 001404 | | LT60: | JSR | PC, STATIC | GO SEE IF STATIC ONLY |
| 1013 | 013564 | 012767 | 013600 | 165120 | | MOV | *LT60IT, SCOLP | SET SCOPE ADDRESS |
| 1014 | 013572 | 012767 | 032713 | 165022 | | MOV | MALTON, EMADDR | |
| 1015 | 013600 | 004767 | 997676 | | LT60IT: | | PC, INIT1 | ; INIT, SELECT DRIVE+SLAVE |
| 1816 | 013604 | 052777 | 000300 | 164730 | | BIS | #300, PTC | SET FORMAT+NRE |
| 1017 | 013612 | 012777 | 000023 | 164714 | | MOV | 023,0MR | SET NH |
| 1818 | 013620 | 012777 | 177770 | 164664 | | MOA | 0-10,0WC | SET WC |
| 1819 | 013626 | 012777 | 177760 | 164662 | | MOA | 0-20, OFC | ISET FC |
| 1820 | 013634 | 012777 | 034144 | 164652 | | MOV | OWDATA, OBA | ISET BA |
| 1821 | 013642 | 012777 | 000061 | 164640 | | MOY | 961,9C1 | LOAD WRITE+GO |
| 1822 | 013650 | 005000 | | | | CLR | RO | |
| 1823 | 013652 | 032777 | 000200 | 164642 | LT60C: | BIT | +200, 0DS | :SEE IF DRY |
| 1824 | 013660 | 001002 | | | | BNE | LTGOD | IF SOL BR |
| 1825 | 013662 | 805300 | | | | DEC | RØ | |
| 1826 | 013664 | 001372 | | | | BNE | LT68C | AWAIT DRY |
| 1827 | 013666 | 032777 | 000200 | 164630 | LT60D: | BIT | #200,0ER | ISEE IF LRC=1 |
| 1828 | 013674 | 001011 | | | | BNE | LTGOE | 11F 801 BR |
| 1829 | 013676 | 012767 | 033767 | 164766 | | MOV | #THS26, ERADD | ISET ERROR CODE |
| 1830 | 013704 | 012767 | 000001 | 165004 | | MOV | 01,EXPL | TOOL ORNOR GOOD |
| 1831 | 013712 | 884767 | 005070 | | | JSR | PC, LTGERØ | GO PRINT |
| 1832 | 013716 | 000425 | | | | BR | LTGOX | 100 1111 |
| 1833 | 013720 | 017702 | 164610 | | LT60E: | MOV | OMR, R2 | |
| 1034 | 013724 | 842782 | 000177 | | 410001 | BIC | 0177,R2 | MASK LRC |
| 1835 | 013730 | 012701 | 157600 | | | MOY | 0157600,R1 | SET EXPT LRC |
| 1836 | 013734 | 020102 | 121000 | | | CMP | R1, R2 | ISEE IF EXPT - RCVD |
| 1837 | 013736 | 001405 | | | | BEQ | LTGOF | |
| 1838 | 013740 | 012767 | 027270 | 164724 | | MOV | | 11F 801 BR |
| 1839 | 013746 | | | 104154 | | | #MSG53, ERADD | SET ERROR CODE |
| | | 004767 | 007202 | | | JSR | PC, LTGER1 | PRINT ERROR |
| 1840 | 013752 | 017702 | 164546 | | LT60F: | VOM | OER,R2 | GET ERROR REGISTER |
| 1841 | 013756 | 012701 | 000200 | | | MOV | 0200,R1 | SET EXPT ERROR BITS |
| 1842 | 013762 | 020102 | | | | CMP | R1, R2 | ISEE IF UNEXPECTED ERRORS |
| 1843 | 013764 | 001402 | | | | BEQ | LTGOX | IF NOT: BR |
| 1844 | 013766 | 004767 | 006002 | | | JSR | PC, LTGER3 | ELSE PRINT ERROR |
| 1845 | 013772 | 004767 | 007422 | | LT60X: | JSR | PC, ITER | |
| 1846 | 013776 | 004767 | 006462 | | | JSR | PC, DRVCLR | |
| 1847 | 014002 | 000167 | 166110 | | | JMP | TSCD2 | RETURN TO SCHED |

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| 1848 | | | | | | | | |
|------|--------|--------|--------|--------|---------|------|------------------|------------------------------|
| 1849 | | | | | | LOGI | TEST 61: PE CORR | ECTABLE DATA (CORR) |
| 1850 | | | | | | | | |
| 1051 | 014006 | 005767 | 164650 | | LT61: | TST | NREOF | ; SEE IF NRE ONLY |
| 1052 | 014012 | 001122 | | | | BNE | LT61XX | IIF 801 BR |
| 1053 | 014014 | 004767 | 001150 | | | JSR | PC, STATIC | GO SEE IF STATIC ONLY |
| 1854 | 014020 | 012767 | 032747 | 164574 | | MOV | MSLT61, EMADDR | |
| 1055 | 014026 | 012767 | 014034 | 164656 | | MOV | *LT61IT, SCOLP | |
| 1856 | 014034 | 004767 | 007442 | | LT61IT: | JSR | PC, INIT1 | ; INIT, SELCT DRIVE+SLAVE |
| 1857 | 014040 | 052777 | 002300 | 164474 | | BIS | #2300,0TC | ISET PE, NORMAL |
| 1050 | 014046 | 012777 | 177600 | 164436 | | MOV | 0-200, OHC | 18ET WC=200 |
| 1859 | 014054 | 012777 | 177400 | 164434 | | MOV | 0-400, OFC | ISET FC=400 |
| 1860 | 014062 | 012777 | 034144 | 164424 | | MOV | OWDATA, OBA | ISET BASTART OF WRITE BUFFER |
| 1861 | 014070 | 012777 | 000061 | 164412 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1862 | 014076 | 005000 | | | | CLR | RO | Anna Merrano |
| 1863 | 014100 | 005777 | 164412 | | LT61A: | TST | OFC | ISEE IF FC=0 |
| 1864 | 014104 | 001402 | | | | BEQ | LT61A1 | 117 801 BR |
| 1865 | 014106 | 005300 | | | | DEC | RØ | 11. 001 01 |
| 1866 | 014110 | 001373 | | | | BNE | LT61A | IDELAY FOR FC-0 |
| 1867 | 014112 | 012777 | 000021 | 164414 | LT61A1: | | 021,0MR | SET MAINT CODE |
| 1868 | 014120 | 005000 | | | | CLR | RØ | JOET WEINT CORE |
| 1869 | 014122 | 032777 | 000200 | 164372 | LT61B: | BIT | 0200, 0DS | 12 000 14 400 |
| 1870 | 014130 | 001002 | | | | BNE | LT61C | SEE IF DRY IS SET |
| 1871 | 014132 | 005300 | | | | DEC | RO | ; IF SO; BR |
| 1872 | 014134 | 001372 | | | | BNE | LT61B | |
| 1873 | 014136 | 805777 | 164362 | | LT61C: | TST | | AWAIT DRY |
| 1874 | 014142 | 100410 | | | 210161 | BMI | OER . | SEE IF CORREL |
| 1875 | 014144 | 012767 | 034103 | 164520 | | MOV | LT61D | ; IF 80; BR |
| 1876 | 014152 | 012767 | 999991 | 164536 | | MOV | STMS35, ERADD | SET ERROR CODE |
| 1077 | 014160 | 004767 | 005622 | 104230 | | | 01,EXFL | |
| 1878 | 014164 | 000240 | 003022 | | | JSR | PC, LTGERO | IGO PRINT ERROR |
| 1879 | 014166 | 000240 | | | LT61D: | NOP | | |
| 1880 | 014170 | 122777 | 000000 | | LT61E: | NOP | | |
| 1001 | 014176 | 001414 | 000002 | 164332 | | CMPB | 02,0CC | ISEE IF DEAD TRACK BIT 1 |
| 1002 | 814200 | 117702 | 444344 | | | BEQ | LT61F | 11F 801 BR |
| 1003 | 014204 | | 164324 | | | MOVB | OCC,R2 | SAVE RCVD |
| | | 042702 | 177000 | | | BIC | 0177000,R2 | MASK OUT CRC |
| 1004 | 014210 | 112701 | 000002 | | | MOVB | #2,R1 | JEAVE EXPT |
| | 014214 | 012767 | 026663 | 164450 | | MOA | #MSG42, ERADD | SET ERROR CODE |
| 1886 | 014222 | 004767 | 006726 | | | JSR | PC, LTGER1 | GO PRINT ERROR |
| 1887 | 014226 | 000410 | | | | BR | LT61X | |
| 1000 | 014230 | 617762 | 164270 | | LT61F: | MOA | OER, R2 | GET ERROR REGISTER |
| 1889 | 014234 | 012701 | 100000 | | | MOV | #100000,R1 | SET EXPT ERROR BITS |
| 1898 | 014240 | 020102 | | | | CHP | R1,R2 | SEE IF UNEXPECTED ERRORS |
| 1891 | 014242 | 001402 | | | | BEQ | LT61X | ; IF NOT: BR |
| 1892 | 014244 | 004767 | 005524 | | | JSR | PC, LTGER3 | ELSE PRINT ERROR |
| 1893 | 014250 | 004767 | 007144 | | LT61XI | JSR | PC, ITER | |
| 1894 | 014254 | 004767 | 006204 | | | JSR | PC, DRVCLR | |
| 1895 | 014260 | 000167 | 165632 | | LT61XX: | | TSCD2 | RETURN TO SCHED |
| 1896 | | | | | | | | |

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| 1897 | | | | | | | | |
|------|--------|--------|--------|--------|---------|-------|------------------|-------------------------------|
| 1898 | | | | | | LOGIC | TEST 62: PE INCO | RRECTABLE DATA(INC,) |
| 1899 | | | | | | | | |
| 1900 | 014264 | 005767 | 164372 | | LT62: | TST | NRZOF | ISEE IF HRE ONLY |
| 1901 | 014270 | 801120 | | | | BNE | LT62XX | IIF SOI BR |
| 1902 | 014272 | 004767 | 000672 | | | JSR | PC, STATIC | 'IGO SEE IF STATIC ONLY |
| 1903 | 014276 | 812767 | 033027 | 164316 | | MOV | MALTEZ, EMADDR | |
| 1904 | 014304 | 012767 | 014312 | 164400 | | MOV | .LT62IT, SCOLP | |
| 1905 | 014312 | 004767 | 007164 | | LT62IT: | JSR | PC, INIT1 | ; INIT SELECT DRIVE SLAVE |
| 1906 | 014316 | 012777 | 177600 | 164166 | | NOV | 4-280, OWC | 18ET WC=200 |
| 1907 | 014324 | 012777 | 177400 | 164164 | | MOV | 0-400, OFC | ISET FC=400 |
| 1908 | 014332 | 012777 | 034144 | 164154 | | MOV | SWDATA, OBA | ISET BARSTART OF WRITE BUFFER |
| 1909 | 014340 | 052777 | 002300 | 164174 | | BIS | #2300,0TC | SET TO PE, NORMAL |
| 1910 | 014346 | 012777 | 000061 | 164134 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1911 | 014354 | 005000 | | | | CLR | RO | |
| 1912 | 014356 | 005777 | 164134 | | LT62E: | TST | OFC | ; AWAIT FC=0 |
| 1913 | 014362 | 001402 | | | | BEQ | LT62E1 | |
| 1914 | 014364 | 005300 | | | | DEC | RO | |
| 1915 | 014366 | 001373 | | | | BNE | LT62E | ; AWAIT FC=0 |
| 1916 | 014370 | 012777 | 000023 | 164136 | LT62E11 | MOV | #23, #HR | SET MAINT CODE |
| 1917 | 014376 | 005000 | | | | CLR | RO | |
| 1918 | 014400 | 032777 | 000200 | 164114 | LT62A1 | BIT | .200, ODS | ISEE IF DRY IS SET |
| 1919 | 014406 | 001002 | | | | BNE | LT62B | IIF SOL BR |
| 1920 | 014410 | 005300 | | | | DEC | RO | |
| 1921 | 014412 | 001372 | | | | SHE | LT62A | AWAIT DRY |
| 1922 | 014414 | 032777 | 000100 | 164102 | LT62B: | BIT | #100,0ER | ISEE IF INCOL |
| 1923 | 014422 | 001010 | | | | BNE | LT62D | IF SOIBR |
| 1924 | 014424 | 012767 | 033745 | 164240 | | MOV | TM823, ERADD | ISET ERROR CODE |
| 1925 | 014432 | 012767 | 000001 | 164256 | | MOV | 01,EXFL | |
| 1926 | 014440 | 004767 | 005342 | | | JSR | PC, LTGERO | GO PRINT ERROR |
| 1927 | 014444 | 017702 | 164060 | | LT62D: | MOA | OCC,R2 | JGET CHECK CHAR |
| 1928 | | 042702 | 177000 | | | BIC | 0177000,R2 | IMASK CHECK CHAR |
| 1929 | 014454 | 012701 | 999946 | | | MOA | 046,R1 | ISET EXPT CK |
| 1930 | | 020102 | | | | CMB | R1,R2 | ISEE IF EXPT = RCVD |
| 1931 | 014462 | 001405 | | | | BEQ | LT62F | ; IF 80; BR |
| 1932 | 014464 | 012767 | 027302 | 164200 | | MOV | MAGS4, ERADD | |
| 1933 | 014472 | 004767 | 006456 | | | JSR | PC, LTGER1 | ;ELSE GO PRINT ERROR |
| 1934 | 014476 | 017702 | 164022 | | LT62F: | MOA | OER, R2 | |
| 1935 | 014502 | 042702 | 100600 | | | BIC | *100600,R2 | MASK NSG AND CORR |
| 1936 | 014506 | 012701 | 000100 | | | MOA | #100,R1 | SET EXPT ERROR BITS |
| 1937 | 014512 | 020102 | | | | CMB | R1,R2 | ISEE IF UNEXPECTED ERRORS |
| 1938 | 014514 | 001402 | | | | BEQ | LT62X | ; IF NOT: BR |
| 1939 | 014516 | 884767 | 005252 | | | JSR | PC, LTGER3 | FELSE PRINT ERROR |
| 1940 | 014522 | 884767 | 006672 | | LT62X: | JSR | PC, ITER | |
| 1941 | 014526 | 004767 | 005732 | | | JSR | PC, DRVCLR | |
| 1942 | 014532 | 000167 | 165360 | | LT62XXI | JMP | TSCD2 | FRETURN TO SCHED |
| | | | | | | | | |

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| 1984 | 014774 | 000167 | 165116 | | LT63XX: | JMP | TSCD2 | RETURN TO SCHED |
|------|--------|--------|--------|--------|---------|--------|------------------|--|
| 1983 | 014770 | 004767 | 005470 | | | JSR | PC, DRVCLR | |
| 1982 | 014764 | 804767 | 006430 | | LT63X: | JSR | PC, ITER | |
| 1981 | 014760 | 004767 | 005010 | | | JSR | PC, LTGER3 | ;ELSE PRINT ERROR |
| 1980 | 014756 | 001402 | | | | BEQ | LT63X | ; IF NOT: BR |
| 1979 | 014754 | 020102 | | | | CMP | R1, R2 | ISEE IF UNEXPECTED ERRORS |
| 1978 | 014750 | 012701 | 000600 | | | MOV | 8600,R1 | SET EXPT ERROR BITS |
| 1977 | 014744 | 017702 | 163554 | | LT63D: | MOV | OER,R2 | GET ERROR REGISTER |
| 1976 | 014742 | 800410 | | | | BR | LT63X | |
| 1975 | 014736 | 884767 | 005044 | | | JSR | PC, LTGERO | GO PRINT ERROR |
| 1974 | 014730 | 012767 | 000001 | 163760 | | MOV | 01,EXFL | SET EXPT FLAG |
| 1973 | 014722 | 012767 | 933761 | 163742 | | VOM | #THS25, ERADD | SET ERROR TAG |
| 1972 | 014720 | 001011 | | | | BNE | LT63D | IF SOI BR |
| 1971 | 014712 | 032777 | 000200 | 163684 | LT63C1 | BIT | 0200, OER | ISEE IF PEF SET |
| 1970 | 014710 | 001372 | | | | BNE | LT63B | ; AWAIT DRY |
| 1969 | 014706 | 005300 | | | | DEC | RO | |
| 1968 | 014704 | 001002 | | | | BNE | LT63C | IIF SOI BR |
| 1967 | 014676 | 032777 | 000200 | 163616 | LT63B: | BIT | #200,0D8 | ; SEE IF DRY SET |
| 1966 | 014672 | 012700 | 004000 | | | MOV | 14000.R0 | |
| 1965 | 914664 | 012777 | 000027 | 163642 | | MOV | 027, OHR | SET MM CODE TO KILL PEF |
| 1964 | 014662 | 801774 | | | | BEQ | 36 | |
| 1963 | 014654 | 032777 | 000100 | 163652 | 38: | BIT | 0100, ONR | |
| 1962 | 014652 | 001374 | | | | BNE | 28 | |
| 1961 | 014644 | 032777 | 000100 | 163662 | 28: | BIT | 0100,0MR | |
| 1960 | 014642 | 001774 | | | | BEQ | 18 | TIME DELAY |
| 1959 | 014634 | 032777 | 000100 | 163672 | 10: | BIT | #100,0MR | |
| 1958 | 014632 | 001375 | | | | BNE | LTG3A | AWAIT FC 0 |
| 1957 | 014626 | 005777 | 163664 | | LT63A: | TST | OFC | , |
| 1956 | 014620 | 012777 | 000061 | 163662 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1955 | 014612 | 012777 | 034144 | 163674 | | MOV | OWDATA, OBA | SET BA-START OF WRITE BUFFER |
| 1954 | 014604 | 052777 | 002300 | 163730 | | BIS | #2300,0TC | SET TO PE, NORMAL |
| 1953 | 014576 | 012777 | 177760 | 163712 | | MOV | 0-20,0FC | SET FC-20 |
| 1952 | 014570 | 012777 | 177770 | 163714 | 2103111 | MOV | #-10,0WC | ; INITIALIZE ; SET WC=10 |
| 1951 | 014564 | 004767 | 006712 | 104150 | LT63IT: | | PC, INIT1 | |
| 1950 | 014556 | 012767 | 014564 | 164126 | | MOV | *LT63IT, SCOLP | SET SCOPE ADDRESS |
| 1949 | 014550 | 012767 | 033111 | 164944 | | MOV | #HBLT63, EMADDR | SET HEADER |
| 1948 | 014544 | 994767 | 000420 | | | JSR | PC, STATIC | GO SEE IF STATIC ONLY |
| 1947 | 014542 | 001114 | 104120 | | 21031 | BNE | LT63XX | ;IF SO: BR |
| 1946 | 014536 | 805767 | 164120 | | LT63: | TST | NRZOF | SEE IF NRE ONLY |
| 1944 | | | | | | Progre | TEST 631 PE FORM | AT ERROR(PEF, NSG) |
| | | | | | | -10010 | MPAR 43. OF MARK | IN PRODUCTOR WALLER TO THE TOTAL TOT |

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| DETUCE. | P11 | | | | | | | |
|---------|--------|--------|--------|--------|---------|--------|------------------|----------------------------|
| 1985 | | | | | | LOGIC | TEST 641 FRAME C | OUNT OVERFLOW(M8985)****** |
| 1986 | | | | | | | | |
| 1987 | 015000 | 012767 | 033145 | 163614 | LT641 | MOA | MSLT64, EMADDR | SET TEST HEADER |
| 1988 | 015006 | 012767 | 015014 | 163676 | | NOV | *LT64IT, SCOLP | SET SCOPE ADDRESS |
| 1989 | 015014 | 004767 | 006462 | | LT64ITE | JSR | PC, INIT1 | ; GO INIT |
| 1990 | 015020 | 012777 | 177770 | 163464 | | MOV | 9-10,0WC | SET WC = 10 |
| 1991 | 015026 | 012777 | 177760 | 163462 | | MOA | #-20,0FC | SET FC = 20 |
| 1992 | 015034 | 052777 | 801788 | 163500 | | BIS | \$1700,0TC | SET TO NRE, NORMAL, ODD |
| 1993 | 015042 | 012777 | 034144 | 163444 | | MOA | ewDATA, eBA | SET BUS ADDRESS |
| 1994 | 015050 | 012777 | 000013 | 163456 | | MOV | #13,0MR | SET WRAP 2 |
| 1995 | 015056 | 012777 | 000061 | 163424 | | MOV | 061,0C1 | LOAD WRITE+GO |
| 1996 | 015064 | 012700 | 040000 | | | MOY | \$40000,R0 | |
| 1997 | 015070 | 005777 | 163446 | | LT64A: | TST | OTC . | ISEE IF ALPHA |
| 1998 | 015074 | 100002 | | | | BPL | LT64B | IF SOL BR |
| 1999 | 015076 | 005300 | | | | DEC | RO | |
| 2000 | 015100 | 901373 | | | | BNE | LT64A | AWAIT ALPHA |
| 2001 | 015102 | 012700 | 000020 | | LT64B: | MOV | #20,R0 | ISET CLK CNT |
| 2002 | 015106 | 052777 | 000040 | 163420 | LT64C: | BIS | 840, 0HR | |
| 2003 | 015114 | | 000040 | 163412 | | BIC | 840, 9MR | CLOCK MR |
| 2004 | 015122 | 005300 | | | | DEC | RO | |
| 2005 | 015124 | 001370 | | | | BNE | LT64C | ; IF NOT DONE ALL: BR |
| 2006 | 015126 | 017702 | 163364 | | | MOV | OFC,R2 | |
| 2007 | 015132 | 005001 | | | | CLR | R1 | SET TEST WORD |
| 2008 | 015134 | 626162 | | | | CMP | R1, R2 | ISEE IF EXPT . RCVD |
| 2009 | 015136 | 901410 | | | | BEQ | LT64X | IIF SOI BR |
| 2010 | 015140 | 012767 | 026136 | 163524 | | MOV | #MSG19, ERADD | SET ERROR CODE |
| 2011 | 015146 | 012767 | 000001 | 163542 | | MOA | #1,EXFL | SET EXPT FLAG |
| 2012 | 015154 | 004767 | 905774 | | | JSR | PC.LTGER1 | GO PRINT ERROR |
| 2013 | 015160 | 004767 | 006234 | | LT64X: | JSR | PC, ITER | GO SEE IF ITERATIONS |
| 2014 | 015164 | 000167 | 164726 | | | JMP | TSCD2 | RETURN TO SCHEDULAR |
| 2015 | | | | | | | | |
| 2016 | | | | | | STATIC | TESTS ONLY SUBR | OUTINE |
| 2017 | | | | | | | | |
| 2018 | 015170 | 005767 | 163544 | | STATIC: | TST | STFLG | ISEE IF SINGLE TEST ONLY |
| 2019 | 015174 | 801006 | | | | BNE | STATX | IIF SOI BR |
| 2020 | 015176 | 005767 | 163610 | | | TST | STATC | SEE IF STATIC ONLY |
| 2021 | 015202 | 001403 | | | | BEQ | STATX | IF NOT: BR |
| 2022 | 015204 | 005726 | | | | TST | (8P)+ | RESET STACK |
| 2023 | 015206 | 000167 | 164704 | | | JMP | TSCD2 | RETURN TO SCHEDULAR |
| 2024 | 015212 | 800207 | | | STATE | RTS | PC | RETURN TO TEST |
| 2025 | | | | | | | | |

TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 66 DZTUCE,P11

| 2026 2027 2020 | | | | | | | SETUP ROUTINE: | ••••••• |
|----------------------|------------------|------------------|--------|--------|--------|-------|----------------|-------------------------------|
| 2029 2030 2031 | | | | | | | | TO GENERATE THE DATA PATTERNS |
| 2032 | | | | | | 10000 | ************* | *********************** |
| 2033 | 415314 | 005767 | 163830 | | Dello. | | 4001.6 | -400 10 41961 - 5040 |
| 2034 | 015214 015220 | 005767 | 163520 | | DSUP: | TST | STFLG | ISEE IF SINGLE TEST |
| 2036 | 015222 | 001431 032777 | 000100 | 163340 | | BIT | D80 | ; IF NOT: BR |
| 2037 | 015230 | 001425 | 000.00 | | | BEQ | \$100,05WR | ; SEE IF SELECT PATTERN |
| 2038 | 015232 | 012704 | 034562 | | | MOV | #WHSG3,R4 | lat wort av |
| 2039 | 015236 | 004767 | 886682 | | | JSR | PC,TTOUT | REQUEST PATTERN NUMBER |
| 2040 | 015242 | 016703 | 163534 | | | MOV | PATRN, R3 | INPAREST LUTTERM MANDER |
| 2041 | 015246 | 004767 | 006734 | | | JSR | PC, OCTP | PRINT PATTERN NUMBER |
| 2042 | 015252 | 012705 | 001002 | | | MOV | PATRN, RS | GET ADDRESS OF PATRN ENTRY |
| 2043 | 015256 | 012701 | 000001 | | | MOV | 01,R1 | ISET SIZE OF ENTRY |
| 2044 | 015262 | 012702 | 000003 | | | MOV | 43,R2 | SET UPPER LIMIT |
| 2045 | 015266 | 012703 | 000000 | | | MOY | 00,R3 | SET LOWER LIMIT |
| 2046 | 015272 | 804767 | 006310 | | | JSR | PC, TTR | GO GET PATTERN NUMBER |
| 2047 | 015276 | 012767 | 000001 | 163474 | | HOV | 01, WPGFL | ISET FLAG |
| 2040 | 015304 | 012703 | 035472 | | D801 | MOV | #WBUFF,R3 | 183 - ADDRS OF WRITE BUFFER |
| 2049 | 015310 | 016701 | 163466 | | | MOV | PATRN, R1 | IRI - PATTERN SELECTOR |
| 2050 | 015314 | 062701 | 000001 | | | ADD | 01,R1 | BUMP POINTER |
| 2051 | 015320 | 800241 | | | | CLC | | |
| 2052 | 015322 | 006101 | | | | ROL | Ri | MAKE PATTERN SELECTOR EVEN |
| 2053 | 015324 | 000171 | 001030 | | | JMP | ODATBL(R1) | GO GENERATE PATTERN |
| 2054 | 015330 | 032777 | 010000 | 163200 | D811 | BIT | #10000, ODT | SEE IF SEVEN TRACK |
| 2055 | 015336 | 001410 | | | | BEQ | D83 | IF NOTE BR |
| 2056 | 015340 | 012702 | 000202 | | | MOV | 9202,R2 | ISET BUFFER SIZE |
| 2057 | 015344 | 012701 | 035472 | | | MOV | SWBUFF, R1 | SET START OF BUFFER |
| 2050 | 015350 | 042721 | 140300 | | D821 | BIC | #140300, (R1)+ | MASK FOR 7 CH |
| 2059 | 015354 | 005302 | | | | DEC | R2 | ISEE IF DONE |
| 2060 | 015356 | 001374 | | | | BNE | D82 | ; IF NOT; BR |
| 2061 | 015360 | 012702 | 000202 | | D83: | MOV | #202,R2 | 1R2-BUFFER SIZE +2 |
| 2062 | 915364 | 012701 | 036104 | | | MOV | #RBUFF, R1 | FRI=READ DATA START |
| 2063 | 015370 | 005021 | | | D\$41 | CLR | (R1)+ | CLEAR BUFFER |
| 2064 | 015372 | 005302 | | | | DEC | R2 | SEE IF DONE ALL |
| 2065 | 015374 | 001375 | | | | BNE | D84 | IF NOT: BR |
| 2066 | 015376 | 000207 | | | | RTS | PC | PEXIT |
| 2067 | | | | | | | | |
| 2068 | | | | | | ; ALL | DNES | |
| 2069 | | | | | | | | |
| 2070 | 015400 | 012701 | 177777 | | DATIS | MOV | 0-1,R1 | ;R1=DATA |
| 2071 | 015404 | 012702 | 000202 | | DATIA: | MOV | 0202,R2 | R2=WORD COUNT +2 |
| 2072 | 015410 | 010123 | | | DATIBE | MOV | R1,(R3)+ | LOAD BUFFER |
| 2073 | 015412 | 005302 | | | | DEC | R2 | SEE IF DONE |
| 2074 | 015414 | 001375 | | | | BNE | DATIB | JIF NOTE BR |
| 2075 | 015416 | 000167 | 177706 | | | JMP | DS1 | RETURN |
| 2076 | | | | | | | | |

| DZTUCE, | | or rocic | | MACY11 27(732) | 18-MAF | R-76 13:16 PAG | iE 67 | |
|------------------------------|--------------------------------------|--------------------------------------|--------|----------------|----------------------------|-------------------------------|---|--|
| 2077 2078 2079 | | | | | IALL I | LEROS | | |
| 2000 | 015422 015424 | 005001 000167 | 177754 | DATES | CLR | R1 DATIA | ;R1=DATA ;LOAD BUFFER | |
| 2002 2003 2004 | | | | | ;ONE/I | EERO IN ALTERNAT | ING CHARACTERS | |
| 2005 2006 2007 | 015430 015434 | 012701 000167 | 125125 | DATE | JNP | 0125125,R1 DATIA | ;R1=DATA ;LOAD BUFFER | |
| 2088 | | | | | | SITS 8-377***** | | |
| 2090 | 015440 015442 | 005001 012702 | 000404 | DATA | CLR | R1 0404,R2 | ;R1=STARTING DATA ;R2=CHARACTER COUNT | |
| 2092 2093 2094 2095 | 015446 015450 015452 015454 | 110123 105201 005302 001374 | | DATAAI | NOVB INCB DEC BNE | R1,(R3)+ R1 R2 DAT4A | ;LOAD BUFFER ;BUMP DATA ;SEE IF DONE ;IF NOT: BR | |
| 2096 2097 | 015456 | 000167 | 177646 | | JMP | DS1 | RETURN | |

DZTUCE.P11 2098 2099 WRAP AROUND MODE & GLOBAL 2100 2101 015462 012767 000006 163260 WAMO: MOV . G. WAM SET WAM NUMBER 2102 015470 012767 000060 163254 WAM01: MOV #60, FUN 2103 015476 005067 163252 CLR DATC 2104 015502 012767 035472 163250 MOV *WBUFF, DATAD SET BUFFER ADDRESS 015510 012767 036104 2105 163244 MOV *RBUFF, RDAD ISET POINTER TO READ BUFFER 2106 015516 004767 000170 JSR PC. SETUP 1GO SET UP 2107 015522 000167 000516 JMP EXEC 2108 2109 WRAP AROUND MODE 1 WRITE BUFFEROSSOSS 2110 015526 012767 000010 163214 WAM1: 2111 VOM #10. WAM 2112 015534 000167 177730 JMP WAMD1 2113 2114 WRAP AROUND MODE 2 BIT FIDDLER WRITE----2115 2116 015540 012767 000012 163202 WAM2: MOV 012, WAM 2117 015546 012767 000060 163176 MOV #60, FUN 2118 015554 005067 163174 CLR DATC 2119 015560 012767 035472 163172 MOV SWBUFF, DATAD 2120 015566 012767 036104 163166 MOV eRBUFF, RDAD 015574 004767 000112 2121 WAM2A1 JSR PC, SETUP 2122 015600 000167 000440 JMP EXEC 2123 2124 WRAP AROUND MODE 3 BIT FIDDLER READ 2125 015604 012767 000014 163136 MOV 2126 WAM3: 814, WAM ISET WAM NUMBER 2127 015612 012767 000070 163132 VOM \$70, FUN SET FUNCTION 015620 2128 012767 036104 163132 MOV *RBUFF, DATAD SET BUFFER ADDRESS 035472 163122 2129 015626 012767 MOV *WBUFF, WTAD ISET POINTER TO WRITE BUFFER 2130 015634 005767 163146 TST RDRVF 2131 015640 001411 BEQ WAMBA 2132 015642 062767 000376 163110 ADD #376, DATAD 2133 015650 062767 000377 163100 ADD #377, WTAD 2134 015656 012767 000076 163066 MOV 876. FUN SET READ REVERSE CODE 2135 015664 032767 000020 163104 WAM3A: BIT #20. UDES 2136 015672 001403 BEQ WAM3B 2137 015674 016767 163110 MOV 163054 RCDP, WTAD 2138 015702 004767 000004 WAM3B: PC, SETUP JSR GO SET UP 2139 015706 000167 000332 JMP EXEC GO EXECUTE 2140

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| 2141 | | | | | | REGIS | STER SETUP ROUTIN | E**** |
|------|------------------|------------------|--------|--------|--------|-------|-------------------|--------------------------------------|
| 2143 | 015712 | 005767 | 163022 | | SETUP: | TST | STFLG | |
| 2144 | 015716 | 001403 | | | 02.01. | BEQ | SETO | ; SEE IF SINGLE TEST ; IF NOT: BR |
| 2145 | 015720 | 005767 | 163054 | | | TST | WPGFL | |
| 2146 | 015724 | 001002 | | | | BNE | SET1 | ISEE IF HAVE SELECTED PATTERN |
| 2147 | 015726 | 004767 | 177262 | | SETO: | JSR | PC, DSUP | GO DO DATA SETUP |
| 2148 | 015732 | 004767 | 005544 | | SET11 | JSR | PC, INIT1 | GO INIT SELECT DRIVE, SLAVE |
| 2149 | 015736 | 804767 | 000656 | | | JSR | PC, BOTT | GO ASSURE NOT AT BOT |
| 2150 | 015742 | 012777 | 177400 | 162546 | | MOV | 1-400, OFC | SET FC-WCX2 |
| 2151 | 015750 | 032767 | 000020 | 163020 | | BIT | #20.UDES | ISEE IF CORE DUMP |
| 2152 | 015756 | 001403 | | | | BEQ | SET2 | IF NOTE BR |
| 2153 | 915768 | 012777 | 177000 | 162530 | | MOV | 0-1000, OFC | ISET FC-WCX4 |
| 2154 | 015766 | 012777 | 177600 | 162516 | SET2: | MOV | #-200, BHC | ISET WC |
| 2155 | 015774 | 016777 | 162760 | 162512 | | MOV | DATAD, OBA | ISET BUS ADDRESS |
| 2156 | 016002 | 032777 | 010000 | 162510 | | BIT | *10000, 0CS | ASSURE DRIVE THERE |
| 2157 | 016010 | 001420 | | | | BEQ | SP1 | ; IF 80; BR |
| 2150 | 016012 | 032777 | 929999 | 162550 | | BIT | #20000, 05WR | ISEE IF PRINT ERRORS |
| 2159 | 016020 | 001004 | | | | BNE | 8P01 | IF NOTI BR |
| 2160 | 016022 | 012704 | 034603 | | | MOV | OWNSG4,R4 | |
| 2161 | 016026 | 004767 | 006012 | | | JSR | PC, TTOUT | PRINT NON-EXISTANT DRIVE |
| 2162 | 016032 | 032777 | 100000 | 162530 | SP011 | BIT | \$100000,05WR | ISEE IF HALT ON ERROR |
| 2163 | 016046 | 001402 | | | | BEQ | SPO | ; IF NOT: BR |
| 2164 | 016042 | 884767 | 007114 | | | JSR | PC, STOP | |
| 2165 | 016046 | 000167 | 177660 | | SPOI | JMP | SET1 | RESETUP |
| 2166 | 016052 | 022767 | 000014 | 162670 | 8P11 | CHP | 014, WAN | 18EE IF WAN 3 |
| 2167 | 916060 | 001026 | | | | BNE | 8P1B | ; IF NOT: BR |
| 2169 | 016062 016070 | 117767 | 162670 | 162664 | | MOVB | OWTAD, DATC | GET FIRST CHAR |
| 2170 | 016076 | 042767 | 177400 | 162656 | | BIC | #177400, DATC | |
| 2171 | 016102 | 000367 005767 | 162652 | | | SWAB | DATC | |
| 2172 | 016106 | 001403 | 102/00 | | | TST | RDRVF | ISEE IF READ REVERSE |
| 2173 | 016110 | 005367 | 162642 | | | BEO | SP1A | JIF NOT: BR |
| 2174 | 016114 | 000410 | 102042 | | | DEC | WTAD | DECREMENT POINTER |
| 2175 | 016116 | 005267 | 162634 | | | BR | SP18 | |
| 2176 | 016122 | 032767 | 000020 | 162646 | SPIAI | BIT | WTAD #20.UDES | BUMP POINTER |
| 2177 | 016130 | 001402 | 000000 | .02040 | | BEQ | | SEE IF CORE DUMP |
| 2178 | 016132 | 005267 | 162620 | | | INC | SP1B WTAD | ; IF NOT! BR |
| 2179 | 016136 | 056777 | 162634 | 162376 | 8P1B: | BIS | UDES, OTC | BUMP POINTER AGAIN |
| 2180 | 016144 | 052777 | 000001 | 162362 | 07.01 | BIS | 01,0MR | SET UNIT DESCRIPTION (DEN, PAR, FMT) |
| 2181 | 016152 | 056777 | 162572 | 162354 | | BIS | WAM, OMR | SET WAM |
| 2182 | 016160 | 856777 | 162570 | 162346 | | BIS | DATC, OMR | SET DATA |
| 2183 | 016166 | 016777 | 162560 | 162314 | | HOV | FUN, OC1 | SET FUNCTION |
| 2184 | 016174 | 032777 | 040000 | 162320 | | BIT | #40000, 0DS | JASSURE NO ERROR |
| 2185 | 016202 | 001001 | | | | BNE | 8P3 | IF NOT: BR |
| 2186 | 016204 | 888287 | | | | RTS | PC | RETURN |
| 2107 | 016206 | 032777 | 020000 | 162354 | 5P3: | BIT | #20000, #SWR | SEE IF PRINT ERRORS |
| 2188 | 016214 | 001004 | | | | BNE | 8P4 | IF NOT: BR |
| 2189 | 016216 | 012704 | 034544 | | | MOV | OWNSG2,R4 | |
| 2190 | 016222 | 994767 | 005616 | | | JSR | PC, TTOUT | PRINT SETUP ERROR |
| 2191 | 016226 | 032777 | 100000 | 162334 | SP41 | BIT | #100000, #SWR | ISEE IF HALT ON ERROR |
| 2192 | 016234 | 001402 | | | | BEQ | 8P5 | IF NOT: BR |
| 2193 | 016236 | 884767 | 006720 | | | JSR | PC, STOP | |
| 2194 | 016242 | 000207 | | | SP5: | RTS | PC | RETURN |
| | | | | | | | | |

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| 2195 | | | | | | PEXECU | TE WAN ROUTINES | ••• |
|------|------------------|------------------|--------|--------|--------|--------|-----------------|--------------------------------|
| 2196 | | | | | | | | |
| 2197 | 016244 | 032777 | 000040 | 162262 | EXEC: | BIT | 140, ONR | |
| 2198 | 016252 | 001403 | | | | BEQ | EXO | JASSURE MAINT CLOCK IS ZERO |
| 2199 | 016254 | 042777 | 000040 | 162252 | | BIC | 940, OMR | ; IF NOT: CLEAR IT |
| 2200 | 016262 | 022767 | 000010 | 162460 | EXOI | CMP | 010, WAM | ISEE IF WAN 1 OR 2 OR 3 |
| 2201 | 016270 | 003402 | | | | BLE | EX1 | ; IF 80: BR |
| 2202 | 016272 | 000167 | 000364 | | | JMP | EXM5 | 1GO DO WAN O |
| 2203 | 016276 | 052777 | 000001 | 162204 | EX1: | BIS | 01,0C1 | JAET GO BIT |
| 2204 | 016304 | 905000 | | | | CLR | RØ | |
| 2205 | 016306 | 012701 | 000002 | | | MOV | #2,R1 | SET DELAY |
| 2206 | 016312 | 032777 | 100000 | 162222 | EX1A: | BIT | #100000, OTC | 18EE IF ALPHA |
| 2207 | 016320 | 001404 | | | | BEQ | EX3 | ; IF 80; BR |
| 2200 | 016322 | 005300 | | | | DEC | RO | |
| 2209 | 016324 | 001372 | | | | BNE | EXIA | AWAIT ALPHA |
| 2210 | 016326 | 005301 | | | | DEC | RI | |
| 2211 | 016330 | 001370 | ***** | | | BNE | EXIA | |
| 2212 | 016332 | 005077 | 162230 | | EX31 | CLR | 0P8W | |
| 2213 | 016336 | 012701 032767 | 000400 | 143434 | | MOV | 4400,R1 | SET NUMBER OF CLKS |
| 2214 | 016342 | | 000020 | 162426 | | BIT | #20, UDES | SEE IF CORE DUMP |
| 2215 | 016350 016352 | 001402 | 801086 | | | BEQ | EX3 | ; IF NOT: BR |
| 2217 | 016356 | 012701 022767 | 991999 | 163364 | | MOV | #1000,R1 | ISET CLOCKS LWCX4 |
| 2218 | 016364 | 001413 | 000014 | 162364 | EX3: | CMP | 014, WAN | ISEE IF WAN 3 |
| 2219 | 016366 | 032767 | 002000 | 162402 | | BEQ | EXSA | ; IF SO; BR |
| 2220 | 016374 | 001405 | 002000 | 102402 | | BEQ | \$2000, UDES | ISEE IF PE |
| 2221 | 016376 | 000241 | | | | | EXS | ; IF NOT PE; BR |
| 2222 | 016400 | 006101 | | | | CLC | | |
| 2223 | 016402 | 062701 | 000246 | | | ADD | R1 0246,R1 | PAR BOT (BASSING) |
| 2224 | 016406 | 000402 | 000240 | | | BR | EXSA | SET TO ALLOW FOR PRE/POSTANBLE |
| 2225 | 016410 | 062701 | 000010 | | EX5: | ADD | 010,R1 | ; ADD CLOCKS FOR CRC AND LRC |
| 2226 | 016414 | 022767 | 000014 | 162326 | EXSA | CMP | 914, WAM | SEE IF WAM 3 |
| 2227 | 016422 | 001044 | 000014 | .02320 | | BNE | EXSC | IF NOT: BR |
| 2228 | 016424 | 117700 | 162326 | | | MOVB | OWTAD, RO | Jar Hott BK |
| 2229 | 016430 | 842700 | 177400 | | | BIC | 0177400,R0 | |
| 2230 | 016434 | 995767 | 162346 | | | TST | RDRVF | ; SEE IF REVERSE |
| 2231 | 016440 | 001403 | | | | BEQ | EX5A1 | JIF NOT: BR |
| 2232 | 016442 | 005367 | 162310 | | | DEC | WTAD | DEC POINTER |
| 2233 | 016446 | 000416 | | | | BR | EXSB | 1000 10211.01 |
| 2234 | 016450 | 005267 | 162302 | | EXSA11 | INC | WTAD | |
| 2235 | 016454 | 032767 | 000020 | 162314 | | BIT | #20, UDES | ;SEE IF CORE DUMP |
| 2236 | 016462 | 001410 | | | | BEQ | EX5B | ; IF NOT; BR |
| 2237 | 016464 | 005267 | 162266 | | | INC | WTAD | BUMP POINTER |
| 2238 | 016470 | 005777 | 162262 | | | TST | OWTAD | SEE IF END |
| 2239 | 016474 | 001003 | | | | BNE | EX5B | ; IF NOT: BR |
| 2240 | 016476 | 162767 | 000010 | 162252 | | SUB | #10, WTAD | RESTORE POINTER |
| 2241 | 016504 | 052777 | 000040 | 162022 | EXSB: | BIS | 840, OMR | CLOCK UP |
| 2242 | 016512 | 017702 | 162016 | | | MOV | OMR, R2 | JREAD MR |
| 2243 | 016516 | 042702 | 177400 | | | BIC | #177400,R2 | MASK OUT DATA |
| 2244 | 016522 | 000300 | | | | SWAB | RØ | POSITION DATA |
| 2245 | 016524 | 050002 | | | | BIS | RØ, R2 | LOAD NEW DATA |
| 2246 | 016526 | 010277 | 162002 | | | MOV | R2,0MR | CLOCK DOWN AND LOAD NEW DATA |
| 2247 | 016532 | 000426 | | | | BR | EXSD | |
| 2248 | 016534 | 052777 | 800040 | 161772 | EXSC: | 818 | 040,0HR | CLOCK UP |
| 2249 | 016542 | 042777 | 000040 | 161764 | | BIC | 940, OHR | CLOCK DOWN |
| 2250 | 016550 | 017700 | 161760 | | | MOV | AND DO | IGET MR |

| DETUCE, | - | or rocic | TEST | MACY11 | 27(732) | 18-MAR- | 76 13116 | PAGE 71 |
|---------|--------|----------|--------|--------|---------|----------|------------|----------------------|
| 2251 | 016554 | 000300 | | | | SWAB | RØ | |
| 2252 | 016556 | 032767 | 000010 | 162212 | | BIT | 110, UDES | ISEE IF EVEN PAR |
| 2253 | 916564 | 001405 | | | | BEQ | EXSCO | IF NOT: BR |
| 2254 | 016566 | 010077 | 162170 | | | MOV | RO, ORDAD | |
| 2255 | 016572 | 005267 | 162164 | | | INC | RDAD | |
| 2256 | 016576 | 000402 | | | | BR | EXSC1 | |
| 2257 | 016600 | 110077 | 162156 | | EXSCO: | HOVB | RO, ORDAD | PUT CHAR IN CORE |
| 2250 | 016604 | 005267 | 162152 | | EXSC1: | INC | RDAD | 1101 011111 211 0012 |
| 2259 | 016610 | 005301 | | | EXSDE | DEC | R1 | SEE IF DONE CLKS |
| 2260 | 016612 | 001300 | | | 2 | BNE | EXSA | IF NOT: BR |
| 2261 | 016614 | 800167 | 002762 | | | JMP | EORP | GO DO EOR |
| 2262 | | | | | | 0 | FAKE | 100 DO BOK |
| 2263 | | | | | | . ASSURE | NOT AT BOT | FOR WRAP TESTS |
| 2264 | | | | | | , , , , | NO. N. DO. | FOR WAR ISSISTED |
| 2265 | 016620 | 632777 | 000002 | 161674 | BOTT: | BIT | #2, #DS | SEE IF BOT |
| 2266 | 016626 | 001414 | 000002 | | | BEQ | BOTTX | IF NOT: BR |
| 2267 | 016630 | 052777 | 001700 | 161704 | | 818 | \$1700.0TC | SET NRZ |
| 2268 | 016636 | 012777 | 000025 | 161644 | | MOV | #25, #C1 | DO ERASE |
| 2269 | 016644 | 032777 | 000200 | | BOTTA: | BIT | | ING PROP |
| 2270 | 016652 | 001774 | 000200 | 161650 | POLINE | | #200, DS | |
| | | | 004600 | | | BEQ | BOTTA | AWAIT DRY |
| 2271 | 016654 | 004767 | 004622 | | | JSR | PC, INIT1 | INIT |
| 2272 | 016660 | 000207 | | | BOTTX | RTS | PC | RETURN |
| 2273 | | | | | | | | |

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| 2274 | | | | | | EXECU | TE WAM 8 | |
|------|--------|--------|--------|--------|---------|-------|---------------|---|
| 2275 | 016662 | 012767 | 017034 | 162000 | EXW2: | MOV | OEXW2H, RTRN | SET INTERRUPT RETURN ADDRESS |
| 2277 | 916679 | 812781 | 000200 | 102000 | BAW21 | MOV | 0200,R1 | SET NUMBER OF CLOCKS = FC/2 |
| 2270 | 016674 | 032767 | 002000 | 162074 | | BIT | #2000, UDES | ISEE IF PE |
| 2279 | 016702 | 001402 | 002000 | 102014 | | BEQ | EXM3V | IF NOT: BR |
| 2280 | 016704 | 012701 | 000100 | | | MOV | #160,R1 | ELSE SET CLKS = FC/4 |
| 2281 | 016710 | 016702 | 162046 | | EXW2A1 | MOV | RDAD, R2 | SET BUFFER ADDRESS |
| 2282 | 016714 | 012777 | 600161 | 161566 | | NOV | #161, #C1 | SET WRITE+GO |
| 2203 | 016722 | 005077 | 161640 | .0.500 | | CLR | OPSW | ALLOW INTERRUPT |
| 2284 | 016726 | 032777 | 000040 | 161600 | EXW2B: | BIT | 940, OMR | Images suspends |
| 2285 | 016734 | 001774 | | | | BEQ | EXH2B | JAWAIT CLOCK UP |
| 2206 | 016736 | 017722 | 161572 | | | MOV | OMR, (R2)+ | GET DATA |
| 2287 | 016742 | 032777 | 000040 | 161564 | EXW2C: | BIT | 140, OHR | , |
| 2288 | 016750 | 001374 | | | | BNE | EXW2C | AWAIT CLOCK DOWN |
| 2289 | 016752 | 017722 | 161556 | | | MOV | OMR, (R2)+ | GET DATA |
| 2290 | 016756 | 005301 | | | | DEC | R1 | SEE IF DONE ALL |
| 2291 | 016760 | 001362 | | | | BNE | EXW2B | IF NOTE BR |
| 2292 | 016762 | 012701 | 000003 | | EXW2E: | MOV | 03,R1 | 101 1011 01 |
| 2293 | 016766 | 005000 | | | | CLR | RO | SET DELAY |
| 2294 | 016770 | 005300 | | | EXW2F: | DEC | RO | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 2295 | 016772 | 001376 | | | | BHE | EXW2F | |
| 2296 | 016774 | 005301 | | | | DEC | R1 | |
| 2297 | 016776 | 001374 | | | | BNE | EXW2F | DELAY |
| 2298 | 017000 | 032777 | 929999 | 161562 | | BIT | #20000, #8WR | ISEE IF ERROR PRINT |
| 2299 | 017006 | 001004 | | | | BNE | EXW2G | IF NOT: BR |
| 2300 | 017010 | 012704 | 035006 | | | MOV | OWNSG24,R4 | 7 |
| 2301 | 017014 | 004767 | 005024 | | | JSR | PC, TTOUT | PRINT NO INTERUPT |
| 2302 | 017020 | 032777 | 100000 | 161542 | EXW2G: | BIT | #100000, 05WR | SEE IF HALT ON ERROR |
| 2303 | 017026 | 001402 | | | | BEQ | EXMSH | JIF NOT: BR |
| 2304 | 017030 | 894767 | 006126 | | | JSR | PC, STOP | |
| 2305 | 017034 | 012701 | 036104 | | EXW2H: | MOV | eRBUFF, R1 | GET START OF READ BUFFER |
| 2306 | 017040 | 012700 | 000400 | | | MOV | 0400,R0 | ISET SIZE |
| 2307 | 017044 | 010102 | | | | MOV | R1, R2 | |
| 2308 | 017046 | 012203 | | | EXW2J: | MOV | (R2)+,R3 | |
| 2309 | 017050 | 000303 | | | | SWAB | R3 | |
| 2310 | 017052 | 032767 | 000010 | 161716 | | BIT | e10, UDES | SEE IF EVEN PAR |
| 2311 | 017060 | 001402 | | | | BEQ | EXW2J0 | ; IF NOT: BR |
| 2312 | 017062 | 010321 | | | | MOV | R3,(R1)+ | ISAVE PAR + DATA |
| 2313 | 017064 | 000401 | | | | BR | EXW2J1 | |
| 2314 | 017066 | 110321 | | | EXW2Je: | MOVB | R3,(R1)+ | ; ASSEMBLE DATA IN BYTES |
| 2315 | 017070 | 005300 | | | EXW2J11 | DEC | RO | |
| 2316 | 017072 | 901365 | | | | BNE | EXW2J | CONTINUE FOR ALL |
| 2317 | 017074 | 032777 | 000200 | 161466 | | BIT | #200, #SWR | ISEE IF STATUS CHECK |
| 2318 | 017102 | 001002 | | | | BNE | EXMSK | ; IF NOT: BR |
| 2319 | 017104 | 004767 | 888816 | | | JSR | PC, WSTCK | PELSE GO CHECK STATUS |
| 2320 | 017110 | 032777 | 000400 | 161452 | EXW2K1 | BIT | 1400,08WR | SEE IF DATA CHECK |
| 2321 | 017116 | 001002 | | | | BNE | EXW2X | JIF NOT: BR |
| 2322 | 017120 | 004767 | 999272 | | | JSR | PC, DCHK | ELSE GO CHECK DATA |
| 2323 | 017124 | 898287 | | | EXM5X: | RTS | PC | PEXIT |
| | | | | | | | | |

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| 2324 | | | | | | | | |
|------|--------|--------|-------------|--------|--------|------|-------------------|-------------------------------|
| 2325 | | | | | | WRAP | AROUND STATUS CHI | ECK ROUTINE |
| 2326 | | | | | | | | |
| 2327 | 017126 | 993967 | 161640 | | WSTCK: | CLR | SERFL | ICLEAR ERROR FLAG |
| 2320 | 017132 | 005067 | 161462 | | | CLR | HORFL | CLEAR HEADER FLAG |
| 2329 | 017136 | 012767 | 034630 | 161526 | | MOV | OWNSG6, ERADD | SET CODE=CS1 |
| 2330 | 017144 | 017702 | 161340 | | | MOY | OC1.R2 | IGET RCVD C81 |
| 2331 | 017150 | 016705 | 161644 | | | MOV | WC81,RS | GET EXPT CAL |
| 2332 | 017154 | 004767 | 000114 | | | JSR | PC, WATG | 1GO CHK |
| 2333 | 017160 | 012767 | 034655 | 161504 | | MOV | OWNSGED, ERADD | SET CODE=C82 |
| 2334 | 017166 | 017702 | 161326 | | | MOV | OC8, R2 | ISET RCVD CS2 |
| 2335 | 017172 | 016705 | 161624 | | | MOV | WC82,RS | IGET EXPT CA2 |
| 2336 | 017176 | 056705 | 161422 | | | BIS | DRYN, RS | ISET DRIVE NUMBER IN EXPT C82 |
| 2337 | 017202 | 004767 | 000066 | | | JSR | PC, WSTG | JGO CHK |
| 2330 | 017206 | 012767 | 034663 | 161456 | | MOV | #WHSGGE, ERADD | SET CODE=DS |
| 2339 | 017214 | 017702 | 161302 | | | MOV | eDS,R2 | SET RCVD DS |
| 2340 | 017220 | 016705 | 161600 | | | HOY | WDS, RS | GET EXPT DS |
| 2341 | 017224 | 004767 | 000044 | | | JSR | PC, WSTG | 160 CHK |
| 2342 | 017230 | 012767 | 034670 | 161434 | | MOV | WHSG6F, ERADD | SET CODE=ER |
| 2343 | 017236 | 017702 | 161262 | | | MOY | OER, R2 | GET RCVD ER |
| 2344 | 017242 | 016705 | 161560 | | | NOV | WER, RS | GET EXPT ER |
| 2345 | 017246 | 994767 | 000022 | | | JSR | PC, WSTG | 160 CHK |
| 2346 | 017252 | 005767 | 161514 | | | TST | SERFL | ISEE IF ANY ERRORS |
| 2347 | 017256 | 001456 | | | | BEQ | WSTX | JIF NOTI BR |
| 2348 | 017260 | 005777 | 161304 | | | 787 | OSWR | ISEE IF HALT ON ERROR |
| 2349 | 017264 | 100053 | 127 13 1 10 | | | BPL | WSTX | IF NOT: BR |
| 2350 | 017266 | 004767 | 985678 | | | JSR | PC, STOP | |
| 2351 | 017272 | 000450 | | | | BR | WSTX | CONTINUE |
| 2352 | 017274 | 020205 | | | WSTG: | CHP | R2,R5 | ISEE IF EXPTORCYD |
| 2353 | 017276 | 001446 | | | | BEQ | WSTX | 117 80; BR |
| 2354 | 017300 | 005267 | 161466 | | | INC | SERFL | ISET ERROR FLAG |
| 2355 | 017304 | 032777 | 020000 | 161256 | | BIT | #20000, #SWR | ISEE IF PRINT ERRORS |
| 2356 | 017312 | 001040 | | | | BNE | WSTX | JIF NOT: BR |
| 2357 | 017314 | 005767 | 161300 | | | TST | HDRFL | SEE IF DONE HEADER |
| 2350 | 017320 | 001010 | | | | BNE | WSTGO | IF SOI BR |
| 2359 | 017322 | 016704 | 161274 | | | MOV | EMADDR, R4 | |
| 2360 | 017326 | 884767 | 004512 | | | JSR | PC, TTOUT | PRINT TEST HEADER |
| 2361 | 017332 | 012704 | 034772 | | | MOV | WHSG23,R4 | |
| 2362 | 017336 | 004767 | 004502 | | | JSR | PC, TTOUT | PRINT STATUS TAG |
| 2363 | 017342 | 012767 | 000001 | 161250 | WSTGO: | MOA | #1, HDRFL | ISET HEADER FLAG |
| 2364 | 017350 | 016704 | 161316 | | | MOV | ERADD, R4 | |
| 2365 | 017354 | 804767 | 004464 | | | JSR | PC, TTOUT | PRINT CODE |
| 2366 | 017360 | 012704 | 026022 | | | MOV | #M8G12,R4 | |
| 2367 | 017364 | 994767 | 004454 | | | JSR | PC, TTOUT | PRINT EXPT TAG |
| 2368 | 017370 | 010503 | | | | MOV | R5, R3 | |
| 2369 | 017372 | 004767 | 004610 | | | JSR | PC, OCTP | PRINT EXPT STATUS |
| 2370 | 017376 | 012704 | 026031 | | | MOV | ##8G13,R4 | |
| 2371 | 017402 | 004767 | 004436 | | | JSR | PC, TTOUT | PRINT RCVD TAG |
| 2372 | 017406 | 010203 | | | | NOV | R2, R3 | |
| 2373 | 017410 | 004767 | 004572 | | | JSR | PC, OCTP | PRINT RCVD STATUS |
| 2374 | 017414 | 000207 | | | WSTX: | RTS | PC | RETURN |
| 2375 | | | | | | | | |

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| 2376 | | | | | | | | |
|------|------------------|--------|--------|--------|----------|-------|----------------|-------------------------------|
| 2377 | | | | | | IDATA | CHECK ROUTINE | |
| 2378 | | | | | | | | |
| 2379 | 017416 | 005967 | 161176 | | DCHK: | CLR | HDRFL | CLEAR HEADER FLAG |
| 2380 | 017422 | 905067 | 161340 | | | CLR | DERFL | ICLEAR DATA ERROR FLAG |
| 2301 | 917426 | 005067 | 161342 | | | CLR | CRCNT | ICLEAR CHAR CHTR |
| 2382 | 017432 | 032767 | 900010 | 161336 | | BIT | e10, UDES | ISEE IF EVEN PARITY |
| 2303 | 917449 | 001402 | | | | BEQ | DCHKAO | IF NOT: BR |
| 2384 | 017442 | 888167 | 000602 | | | JMP | DCHKE | ELSE GO CHECK EVEN |
| 2305 | 017446 | 022767 | 000010 | 161274 | DCHKAG: | | 010, WAM | JACE IF WAN 1 |
| 2386 | 017454 | 001006 | | | | BNE | DCHKA | JIF HOT: BR |
| 2307 | 017456 | 032767 | 002000 | 161312 | | BIT | #2000, UDES | ISEE IF PE |
| 2388 | 017464 | 001402 | | | | BEG | DCHKA | IF NOTE BR |
| 2389 | 017466 | 900167 | 001202 | | | JMP | PRCHK | IGO CHK DATA |
| 2390 | 017472 | 012700 | 177400 | | DCHKA: | MOV | 1-400, RO | ISET NUMBER OF CHARACTERS |
| 2391 | 017476 | 022767 | 000012 | 161244 | | CMP | #12, WAM | |
| 2392 | 017504 | 001006 | | | | BNE | DCHKA1 | ; IF NOT WRAP 2: BR |
| 2393 | 017506 | 032767 | 999929 | 161262 | | BIT | #26, UDES | |
| 2394 | 017514 | 001402 | | | | BEO | DCHKA1 | IF NOT CORE DUMP! BR |
| 2395 | 017516 | 012700 | 177000 | | | MOV | 0-1000, RO | |
| 2396 | 017522 | 822767 | 000006 | 161220 | DCHKA1 8 | CMP | 06, WAM | |
| 2397 | 017530 | 001007 | | | | BNE | DCHKA2 | |
| 2398 | 017532 | 032767 | 002000 | 161236 | | BIT | \$2000, UDES | ; SEE IF PE MODE |
| 2399 | 017540 | 001430 | | | | BEQ | DCHKB | ; IF NOT: BR |
| 2400 | 017542 | 012700 | 177600 | | | VOM | 4-200, RO | ISET CHAR CHTR TO FC/2 FOR PE |
| 2401 | 017546 | 800425 | | | | BR | DCHKB | |
| 2402 | 017550 | 022767 | 000012 | 161172 | DCHKA2: | CMP | 912, WAM | ISEE IF WRAP 2 |
| 2403 | 017556 | 001021 | | | | BNE | DCHKB | ; IF NOT: BR |
| 2404 | 017560 | 032767 | 002000 | 161210 | | BIT | #2000, UDES | ISEE IF PE |
| 2405 | 017566 | 001415 | | | | BEQ | DCHKB | ; IF NOT: BR |
| 2406 | 017570 | 012700 | 177653 | | | MOV | 0-125,R0 | POINT TO START OF DATA |
| 2407 | 017574 | 012767 | 000001 | 161162 | | MOV | 01,W2FLG | ISET WRAP 2 FLAG |
| 2408 | 017602 | 004767 | 000014 | | | JSR | PC, DCHKB | IGO CHECK DATA |
| 2409 | 017606 | 004767 | 001362 | | | JSR | PC, W1DCHK | GO CHECK WRAP 1 DATA |
| 2410 | 017612 | 005067 | 161146 | | | CLR | W2FLG | |
| 2411 | 017616 | 000167 | 000362 | | | JMP | DCHKX | |
| 2412 | 017622 | 905967 | 161140 | | DCHKB! | CLR | DERFL | |
| 2413 | 017626 | 012701 | 035472 | | | MOA | #WBUFF, R1 | SET GOOD POINTER |
| 2414 | 017632 | 012702 | 036104 | | | MOV | PRBUFF, R2 | SET READ POINTER |
| 2415 | 017636 | 032767 | 000020 | 161132 | | BIT | e20, UDES | ISEE IF CORE DUMP |
| 2416 | 017644 | 001416 | | | | BEQ | DCHKO | ; IF NOT: BR |
| 2417 | 017646 | 022767 | 000012 | 161074 | | CMP | 012, WAM | ISEE IF WAM 2 |
| 2418 | 017654 | 001011 | | | | BNE | DCHKD | ; IF NOT: BR |
| 2419 | 017656 | 005767 | 161120 | | | TST | PATRN | SEE IF PATTERN 6 |
| 2420 | 017662 | 001003 | | | | BNE | DCHKC | ; IF NOT: BR |
| 2421 | 017664 | 012701 | 001054 | | | MOA | OWCDPO, R1 | SET CORE DUMP PATTERN 0 |
| 2422 | 017670 | 800404 | | | | BR | DCHKO | GO CHECK DATA |
| 2423 | 017672 | 012701 | 001042 | | DCHKC . | MOA | SWCDP2, R1 | SET CORE DUMP WRITE PATTERN 2 |
| 2424 | 017676 | 600401 | | | | BR | DCHKO | GO CHECK DATA |
| 2425 | 017700 | 000240 | | | DCHKD: | NOP | | |
| 2426 | 017702 | 121112 | | | DCHK0: | CMPB | (R1),(R2) | SEE IF DATA OK |
| 2427 | 017704 | 001466 | 020000 | 140454 | | DEG | DCHK5 | ; IF SO; BR |
| 2429 | 917796 917714 | 032777 | 020000 | 160654 | | BIT | #20000, #SWR | SEE IF PRINT ERRORS |
| 2430 | 017716 | 001062 | 160676 | | | TST | DCHK3 | ; IF NOT: BR |
| 2431 | 017722 | 001004 | .00076 | | | BNE | HDRFL DCHK1 | SEE IF DONE HEADER |
| -44. | | 001004 | | | | OHE | Mi- Dill | |

| 2432 | 017724 | 016704 | 160672 | | | HOV | EMADDR, R4 | |
|------|--------|--------|--------|--------|---------|--|---------------|-----------------------------------|
| 2433 | 017730 | 994767 | 004110 | | | JSR | PC, TTOUT | PRINT HEADER |
| 2434 | 017734 | 005767 | 161026 | | DCHK1: | TST | DERFL | ISEE IF FIRST ERROR |
| 2435 | 017740 | 001014 | | | | BNE | DCHK1A | IF NOT: BR |
| 2436 | 017742 | 012704 | 034740 | | | HOV | OWNSG16,R4 | 111 4011 01 |
| 2437 | 017746 | 004767 | 004072 | | | JSR | | |
| 2438 | 017752 | | | | | | PC,TTOUT | PRINT DATA ERROR TAG |
| | | 012704 | 035165 | | | MOA | OWMSG32,R4 | |
| 2439 | 017756 | 004767 | 004062 | | | JSR | PC,TTOUT | PRINT PATRN TAG |
| 2440 | 017762 | 016703 | 161014 | | | MOA | PATRN, R3 | |
| 2441 | 017766 | 004767 | 004214 | | | JSR | PC,OCTP | PRINT PATTERN NUMBER |
| 2442 | 017772 | 912767 | 000001 | 160620 | DCHK1A: | MOV | #1, HDRFL | SET HEADER FLAG |
| 2443 | 920000 | 012767 | 000001 | 160760 | | MOV | #1,DERFL | SET DATA ERROR FLAG |
| 2444 | 020006 | 012704 | 034764 | | | MOV | #WM8G21,R4 | |
| 2445 | 020012 | 804767 | 004026 | | | JSR | PC,TTOUT | PRINT CHARACTER NUMBER TAG |
| 2446 | 020016 | 016703 | 160752 | | | MOV | CRCNT, R3 | |
| 2447 | 020022 | 004767 | 004160 | | | JSR | PC, OCTP | PRINT CHARACTER NUMBER |
| 2448 | 020026 | 012704 | 034752 | | | MOV | SWHSG17,R4 | |
| 2449 | 020032 | 884767 | 004006 | | | JSR | PC,TTOUT | PRINT GOOD TAG |
| 2450 | 020036 | 111103 | | | | HOVB | (R1),R3 | , |
| 2451 | 020040 | 004767 | 004706 | | | JSR | PC, DOUT | PRINT GOOD DATA |
| 2452 | 020044 | 012704 | 034757 | | | MOV | #W8G20, R4 | ILMINI GOOD DWIN |
| 2453 | 020050 | 004767 | 003770 | | | The second secon | | |
| | | | 003//0 | | | JSR | PC,TTOUT | PRINT BAD TAG |
| 2454 | 020054 | 111203 | | | | MOVB | (R2),R3 | |
| 2455 | 020056 | 804767 | 004670 | | Danke. | JSR | PC.DOUT | PRINT BAD DATA |
| 2456 | 020062 | 005767 | 160676 | | DCHK5: | TST | W2FLG | |
| 2457 | 020066 | 001020 | | | | BHE | DCHK38 | |
| 2450 | 020070 | 005201 | | | | INC | R1 | BUMP POINTER |
| 2459 | 020072 | 032767 | 000020 | 160676 | | BIT | •20, UDES | ; SEE IF CORE DUMP |
| 2460 | 020100 | 001413 | | | | BEQ | DCHK2B | ; IF NOT: BR |
| 2461 | 020102 | 022767 | 000012 | 160640 | | CMP | \$12, WAM | ISEE IF WAM 2 |
| 2462 | 020110 | 001006 | | | | BNE | DCHK2A | ; IF NOT: BR |
| 2463 | 020112 | 005201 | | | | INC | R1 | BUMP POINTER |
| 2464 | 020114 | 005711 | | | | TST | (R1) | SEE IF END OF PATTERN |
| 2465 | 020116 | 001004 | | | | BNE | DCHK2B | IF NOT: BR |
| 2466 | 020120 | 162701 | 000010 | | | SUB | 010,R1 | RESET POINTER TO START OF PATTERN |
| 2467 | 020124 | 900401 | | | | BR | DCHK2B | CONTINUE CHECK |
| 2460 | 020126 | 000240 | | | DCHK2A: | | | 100 |
| 2469 | 020130 | 005202 | | | DCHK28: | | R2 | |
| 2470 | 020132 | 022767 | 000006 | 160610 | Denkau. | CMP | 06, WAH | SEE IF WAM O |
| 2471 | 020140 | 001005 | 000000 | | | BNE | DCHK3 | , |
| 2472 | | | 002000 | 160626 | | | | |
| | 020142 | 032767 | 902000 | 160626 | | BIT | \$2000, UDES | ISEE IF PE |
| 2473 | 020150 | 001401 | | | | BEQ | DCHK3 | ; IF NOT PE; BR |
| 2474 | 020152 | 005201 | | | | INC | RI | BUMP WRITE DATA ADDRESS |
| 2475 | 020154 | 005267 | 160614 | | DCHK3: | INC | CRCNT | BUMP CHAR CHTR |
| 2476 | 020160 | 032777 | 000400 | 160402 | | BIT | 1400,05WR | SEE IF CONT DATA CHK |
| 2477 | 020166 | 001006 | | | | BNE | DCHKX | ; IF NOT: BR |
| 2478 | 020170 | 005200 | | | | INC | RO | SEE IF DONE |
| 2479 | 020172 | 001243 | | | | BNE | DCHKO | IF NOT: BR |
| 2480 | 020174 | 895767 | 160564 | | | TST | W2FLG | |
| 2481 | 020200 | 001401 | | | | BEQ | DCHKX | |
| 2482 | 020202 | 000207 | | | | RTS | PC | |
| 2403 | 020204 | 032777 | 100000 | 160356 | DCHKXI | BIT | #100000, #SWR | ISEE IF HALT ON ERROR |
| 2484 | | | | .00350 | DEMNA | | | |
| | 929212 | 001405 | 140544 | | | BEQ | DCHKX1 | JIF NOTE BR |
| 2485 | 020214 | 005767 | 160546 | | | TST | DERFL | ISEE IF DATA ERROR OCCURED |
| | 020220 | 001402 | | | | BEQ | DCHKX1 | JIF NOT: BR |
| 2486 | 020222 | 894767 | 004734 | | | JAR | DC STOR | 7 |

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| 2491 | | 005067 | 160542 160362 160524 160522 | DCHKX1: | CLR CLR CLR CLR RTS | CRCNT HORFL DERFL PREFL PC | CLEAR CHAR CHIR CLEAR HEADER FLAG CLEAR DATA ERROR FLAG CLEAR PREAMBLE FLAG RETURN |
|------|--|--------|--------------------------------------|---------|---------------------------------|--|--|
|------|--|--------|--------------------------------------|---------|---------------------------------|--|--|

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| 2 | 493 | | | | | | | | |
|---|------------|------------------|--|--|--------|-----------------------------------|------------|-----------------|--------------------------------------|
| | 494 | | | | | | PEVEN | PARITY DATA CHE | CK0000 |
| 2 | 495 | | | | | | | | |
| | 496 | 020250 | 912700 | 177400 | | DCHKE: | MOV | 0-400, RO | SET NUMBER OF CHARACTERS |
| | 497 | 020254 | 012701 | 035472 | | | NOV | #WBUFF,R1 | IRISTART OF WRITE BUFFER |
| | 498 | 929269 | 012702 | 036104 | | | MOV | PRBUFF, R2 | ;R2=START OF READ BUFFER |
| | 499 | 020264 | 111105 | | | DCKEO: | HOVB | (R1),R5 | GET EXPT DATA |
| | 500 | 020266 | 005003 | | | | CLR | R3 | |
| | 501 | 020270 | 012704 | 000010 | | | VON | #10,R4 | SET NUMBER OF BITS |
| | 502 | 020274 | 032705 | 000001 | | DCKE11 | BIT | #1,R5 | ISEE IF ONE BIT |
| | 503 | 020300 | 001401 | | | | BEQ | DCKE3 | ; IF NOT: BR |
| | 504 | 020302 | 005203 | | | | INC | R3 | COUNT ONE BITS FOR PARITY CHECK |
| | 505 | 020304 | 005304 | | | DCKE3: | DEC | R4 | ISEE IF DONE |
| | 506 | 020306 | 001402 | | | | BEQ | DCKE3 | ; IF 80; BR |
| | 507 | 020310 | 006005 | | | | ROR | R5 | POINT TO NEXT BIT |
| | 508 | 020312 | 888778 | | | | BR | DCKE1 | |
| | 509 | 020314 | 111105 | | | DCKE31 | HOVB | (R1), R5 | GET EXPT DATA |
| | 510 | 020316 | 042705 | 177400 | | | BIC | #177400,R5 | MASK DATA FIELD |
| | 511 | 020322 | 005703 | | | | TST | R3 | |
| | 512 | 020324 | 001003 | | | | BNE | DCKE4 | ; IF NO ONE BITS SET; BR |
| | 513 | 020326 | 012705 | 100020 | | | MOA | \$100020,R5 | |
| | 14 | 020332 | 000405 | | | | BR | DCKES | |
| | 515 | 020334 | 032703 | 000001 | | DCKE41 | BIT | 01,R3 | ISEE IF ODD NUMBER OF ONE BITS |
| | 116 | 020340 | 001402 | | | | 926 | DCKES | JIF NOTE BR |
| | 517 | 020342 | 052705 | 100000 | | | BIS | #100000,R5 | SET EVEN PARITY BIT-1 |
| | 510 | 020346 | 042712 | 977400 | | DCKES: | BIC | 677400, (R2) | MASK DATA FIELD |
| | 119 | 020352 | 020512 | | | | CMP | R5,(R2) | SEE IF DATA + PARITY GOOD |
| | 320 | 020354 | 001474 | 020000 | 160304 | | BEQ | DCKE10 | ; IF 80: BR |
| | 321 | 020356 020364 | 032777 001070 | 929999 | 160204 | | BIT | #20000, #SWR | SEE IF ERROR PRINT |
| | 522 523 | 020366 | 005767 | 160226 | | | BNE | DCKE10 HDRFL | ; IF NOT: BR ; SEE IF DONE HEADER |
| | 524 | 020372 | 001004 | 160226 | | | TST BNE | DCKE6 | ; IF SO! BR |
| | 525 | 020374 | 016704 | 160222 | | | MOV | EMADDR, R4 | 115 OOL DK |
| | 526 | 020400 | 004767 | 003440 | | | JSR | PC, TTOUT | PRINT HEADER |
| | 527 | 020404 | 005767 | 160356 | | DCKE6: | TST | DERFL | SEE IF FIRST BAD CHAR |
| | 528 | 020410 | 001014 | 100330 | | DCKEG. | BNE | DCKE7 | ; IF NOT: BR |
| | 529 | | | 034740 | | | VON | #WHSG16,R4 | 111 HATE BK |
| | 530 | 020416 | 004767 | 003422 | | | JSR | PC, TTOUT | PRINT BAD DATA TAG |
| | 331 | 020422 | 012704 | 035165 | | | MOV | #WM8G32,R4 | 116.0.1 200 2010 100 |
| | 332 | 020426 | 004767 | 003412 | | | JSR | PC, TTOUT | PRINT PATTERN TAG |
| | 333 | 020432 | 016703 | 160344 | | | MOV | PATRN, R3 | Irrani Fattonii Inc |
| | 534 | 020436 | 884767 | 003544 | | | JSR | PC, OCTP | PRINT PATTERN NUMBER |
| | 535 | 020442 | 012767 | 000001 | 160316 | DCKE71 | MOV | #1,DERFL | SET DATA ERROR FLAG |
| | 336 | 020450 | 012767 | 000001 | 160142 | | MOV | #1, HDRFL | SET HEADER FLAG |
| | 537 | 020456 | 012704 | 034764 | | | MOV | OWMSG21,R4 | 1001 |
| | 538 | 020462 | 004767 | 003356 | | | JSR | PC, TTOUT | PRINT CHAR NUMBER TAG |
| | 339 | 020466 | 016703 | 160302 | | | MOV | CRCNT, R3 | Trans dunk monock the |
| | 540 | 020472 | 884767 | 003510 | | | JSR | PC, OCTP | ORINT CHAR NUMBER |
| | 541 | 020476 | 012704 | 034752 | | | MOV | SWMSG17,R4 | |
| | 542 | 020502 | 004767 | 003336 | | | JSR | PC, TTOUT | PRINT GOOD DATA TAG |
| | 543 | 020506 | 110503 | | | | MOVB | RS,R3 | |
| | 544 | 020510 | 004767 | 004236 | | | JSR | PC, DOUT | PRINT EXPT DATA |
| | 545 | 020514 | 010503 | | | | MOV | RS,R3 | |
| | 546 | 020516 | 004767 | 000064 | | | JSR | PC, DCKEP | GO PRINT PARITY BIT |
| | 547 | 020522 | 012704 | 034757 | | | MOY | #WM8G20,R4 | |
| | 540 | 020526 | 004767 | 003312 | | | JSR | PC. TTOUR | PRINT BAD TAG |
| | - | | and the last of th | Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner, | | CONTRACTOR OF THE PERSON NAMED IN | Section 1 | | |

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| 2549 | 020532 | 111203 | | | | HOVB | (R2),R3 | |
|------|--------|--------|---------------|--------|---------|------|------------|----------------------------|
| 2550 | 020534 | 804767 | 004212 | | | JSR | PC, DOUT | PRINT BAD DATA |
| 2551 | 020540 | 011203 | | | | MOV | (R2),R3 | 11 200 2010 |
| 2552 | 020542 | 004767 | 000040 | | | JSR | PC, DCKEP | GO PRINT PARITY BIT |
| 2553 | 020546 | 005201 | 200040 | | DCKE10. | | | lan burnt buurtt att |
| | | | | | DCKE10: | INC | R1 | |
| 2554 | 020550 | 005722 | | | | TST | (R2)+ | BUMP POINTERS |
| 2555 | 020552 | 005267 | 160216 | | | INC | CRCNT | BUMP CHAR CHTR |
| 2556 | 020556 | 032777 | 000400 | 160004 | | BIT | \$400,08WR | SEE IF CONTINUE DATA CHECK |
| 2557 | 020564 | 001402 | | | | BEQ | DCKE11 | ; IF 80: BR |
| 2558 | 020566 | 000167 | 177412 | | | JMP | DCHKX | GO TO END OF DATA CHECK |
| 2559 | 020572 | 005200 | • · · · · · · | | DCKE11: | INC | RO | ISEE IF DONE |
| 2560 | 020574 | | | | DCKETT! | | | |
| | | 001402 | | | | BEQ | DCKE12 | 11F 801 BR |
| 2561 | 020576 | 000167 | 177462 | | | JMP | DCKEG | FLAE CONTINUE |
| 2562 | 020602 | 000167 | 177376 | | DCKE131 | JMP | DCHKX | GO TO END OF DATA CHECK |
| 2563 | 020606 | 012767 | 000240 | 160000 | DCKEP: | NOV | #240, TOB | |
| 2564 | 929614 | 004767 | 003340 | | | JBR | PC, TOG | 1 SPACE |
| 2565 | 020620 | 012767 | 000260 | 157766 | | MOV | #260, TOB | ISET PARSO |
| 2566 | 020626 | 005703 | 000200 | 231100 | | | | |
| | | | | | | TST | R3 | SEE IF PARITY REALLY=0 |
| 2567 | 020630 | 100002 | | | | BPL | DCKEPO | 11F 501 BR |
| 2568 | 020632 | 905267 | 157756 | | | INC | 108 | FELSE SET TO 1 |
| 2569 | 020636 | 004767 | 003316 | | DCKEP#: | JSR | PC, TOG | PRINT PARITY BIT |
| 2570 | 020642 | 000207 | | | | RTS | PC | RETURN |
| 2571 | | | | | | | | 1,000,000 |
| | | | | | | | | |

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| 2572 | | | | | | | | |
|------|------------------|--------|--------|--------|--------|-------|----------------------|-------------------------------------|
| 2573 | | | | | | PREAM | PLE/POSTAMPLE C | HECKOOOOO |
| 2574 | | | | | | | | |
| 2575 | 020644 | 012700 | 000051 | | PSCHK: | MOA | 051,R0 | ISET SIZE OF POSTANBLE |
| 2576 | 020650 | 012701 | 035350 | | | MOA | PPOST, R1 | ISET POINTER TO POSTAMBLE |
| 2577 | 929654 | 995967 | 157740 | | | CLR | HDRFL | CLEAR HEADER PLAG |
| 2578 | 020660 | 005067 | 160110 | | | CLR | CRCNT | CLEAR CHAR CHTR |
| 2579 | 828664 | 005067 | 160076 | | | CLR | DERFL | CLEAR DATA ERROR FLAG |
| 2580 | 020670 | 000167 | 000016 | | | JMP | PDO | JGO CHECK POSTAMPLE |
| 2581 | | | | | | | | |
| 2582 | 020674 | 812700 | 000051 | | PRCHK: | MOV | 051,R0 | ISET SIZE OF PREAMBLE |
| 2583 | 820708 | 012701 | 035226 | | | MOV | OPRE, R1 | SET POINTER TO PREAMBLE |
| 2584 | 020704 | 012702 | 036104 | | | MOV | PRBUFF, R2 | SET POINTER TO START OF READ BUFFER |
| 2585 | 020710 | 022122 | | | | CMP | (R1)+, (R2)+ | BUMP ADDRESS POINTERS |
| 2586 | 020712 | 121112 | | | PD0: | CMPB | (R1),(R2) | CHECK DATA |
| 2587 | 828714 | 001004 | | | | BNE | PD1 | JIF NOT GOOD! BR |
| 2588 | 020716 | 126162 | 000001 | 000001 | | CMPB | 1(R1),1(R2) | COMPARE COMPLIMENT BYTE |
| 2589 | 020724 | 001477 | | | | BEQ | PDS | IF GOOD: BR |
| 2590 | 020726 | 032777 | 020000 | 157634 | PD1: | BIT | #20000, #8WR | ISEE IF PRINT INHIBIT |
| 2591 | 020734 | 001073 | | | | BNE | PDS | 11F 801 BR |
| 2592 | 020736 | 005767 | 157656 | | | TST | HDRFL | ISEE IF DONE HEADER |
| 2593 | 020742 | 001020 | | | | BNE | PD4 | 11F 801 BR |
| 2594 | 020744 | 016704 | 157652 | | | NOV | EHADDR, R4 | |
| 2595 | 020750 | 004767 | 003070 | | | JSR | PC, TTOUT | PRINT TEST HEADER |
| 2596 | 020754 | 005767 | 160010 | | | 787 | PREFL | SEE IF PREAMBLE CHECK |
| 2597 | 020760 | 001403 | | | | BEQ | PD2 | IF NOT: BR |
| 2598 | 020762 | 012704 | 035111 | | | MOV | #WM8G29,R4 | ISET POSTAMBLE HEADER |
| 2599 | 020766 | 000402 | | | | BR | PD3 | Lagrange introdu |
| 2600 | 929779 | 012704 | 035073 | | PD2: | MOV | 0 MM8G20, R4 | ISET PREAMBLE HEADER |
| 2601 | 020774 | 004767 | 003044 | | PD3: | JSR | PC, TTOUT | PRINT HEADER |
| 2602 | 021000 | 005267 | 157614 | | | INC | HDRFL | Man manage |
| 2603 | 021004 | 012704 | 834764 | | PD41 | MOV | OWNSG21,R4 | |
| 2604 | 021010 | 004767 | 003030 | | | JSR | PC, TTOUT | PRINT CHAR NUMBER TAG |
| 2605 | 021014 | 016703 | 157754 | | | MOA | CRCNT, R3 | ILVENT CHAP HOUSEY ING |
| 2606 | 021020 | 004767 | 003162 | | | JSR | PC, OCTP | PRINT CHAR NUMBER |
| 2607 | 021024 | 012704 | 034752 | | | MOA | #WMSG17.R4 | ILVANT CHAN MANDEN |
| 2608 | 021030 | 004767 | 003010 | | | JSR | PC, TTOUT | PRINT GOOD TAG |
| 2609 | 021034 | 116103 | 000001 | | | MOVB | 1(R1),R3 | ILMINI GOOD ING |
| 2610 | 021040 | 094767 | 003706 | | | JSR | PC, DOUT | PRINT GOOD CHAR |
| 2611 | 021044 | 012767 | 000240 | 187542 | | MOA | | JAKTUI GOOD CHAK |
| 2612 | 021052 | 004767 | 003102 | 157542 | | JSR | #240, TOB PC, TOG | |
| | | | 003102 | | | | | |
| 2613 | 021056 021060 | 111103 | 003666 | | | MOVB | (R1), R3 | - PRINT COMPLINENT |
| 2615 | 021064 | 012704 | 034757 | | | JSR | PC, DOUT | PRINT COMPLIMENT |
| | | | | | | MOV | #WMSG20,R4 | -00740 040 040 |
| 2616 | 021070 | 004767 | 002750 | | | JSR | PC, TTOUT | PRINT BAD TAG |
| 2617 | 021074 | 116203 | 000001 | | | MOVB | 1(R2),R3 | |
| 2618 | 921100 | 004767 | 003646 | | | JSR | PC.DOUT | PRINT BAD CHAR |
| 2619 | 021104 | 012767 | 000240 | 157502 | | MOA | #240, TOB | |
| 2620 | 021112 | 994767 | 003042 | | | JSR | PC, TOG | |
| 2621 | 921116 | 111203 | | | | MOVB | (R2),R3 | |
| 2622 | 021120 | 004767 | 003626 | | | JSR | PC, DOUT | PRINT COMPLIMENT |
| 2623 | 021124 | 022122 | | | PD5: | CMP | (R1)+,(R2)+ | BUMP ADDRESS POINTERS |
| 2624 | 021126 | 005267 | 157642 | | | INC | CRCNT | BUMP CHAR NUMBER |
| 2625 | 021132 | 005300 | | | | DEC | RO | ISEE IF DONE |
| 3626 | 021134 | 001266 | | | | BNE | PDO | JIF NOT: BR |
| 2627 | 021136 | 005767 | 157626 | | | TAT | DREFT | ISPE TP BOPAMALE |
| | | | | | | | | |

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| 2628 | 021142 | 801402 | | | BEQ | PD6 | |
|------|--------|--------|--------|------|-----|--------|------------------------|
| | | | | | | | ; IF 80; BR |
| 2629 | 021144 | 000167 | 177034 | | JMP | DCHKX | GO TO EXIT ROUTINE |
| 2630 | 021150 | 005267 | 157614 | PD61 | INC | PREFL | ISET PREAMBLE PLAG |
| 2631 | 021154 | 003067 | 157440 | | CLR | HORFL | CLEAR HEADER FLAG |
| 2632 | 021160 | 005067 | 157610 | | CLR | CRCNT | CLEAR CHAR CHTR |
| 2633 | 021164 | 005067 | 157576 | | CLR | DERFL | ICLEAR DATA ERROR FLAG |
| 2634 | 021170 | 000167 | 000000 | | JMP | WIDCHK | GO CHECK WRAP 1 DATA |
| 2428 | | | | | | | |

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| 2636 | | | | | | | | |
|--------------|------------------|--------|------------------|--------|---------|-------|---------------------|-----------------------------|
| 2637 | | | | | | . WAM | 1 PE DATA CHECK+ | ••• |
| 2638 | | | | | | , | . I'D DAIL CHOCKE | |
| 2639 | 021174 | 012700 | 177400 | | W1DCHK: | MOV | 0-400,R0 | SET NUMBER OF CHAR TO CHECK |
| 2640 | 921200 | 012701 | 035472 | | | MOV | WBUFF, R1 | SET WRITE DATA POINTER |
| 2641 | 021204 | 012702 | 036104 | | | MOV | #RBUFF,R2 | SET READ DATA POINTER |
| 2642 | 021210 | 062702 | 000124 | | | ADD | #124,R2 | POINT TO START OF DATA |
| 2643 | 021214 | 005767 | 157544 | | | TST | W2FLG | ISEE IF WRAP 2 |
| 2644 | 021220 | 001401 | | | | BEQ | WIDO | IIF NOT WAM 21 BR |
| 2645 | 021222 | 005302 | | | | DEC | R2 | RESET POINTER |
| 2646 | 021224 | 111105 | | | W1D0: | MOVB | (R1),R5 | |
| 2647 | 021226 | 120512 | | | | CMPB | R5,(R2) | CHECK DATA |
| 2648 | 021230 | 001007 | | | | BNE | W1D1 | IF NOT GOODICE |
| 2649 | 021232 | 005767 | 157526 | | | TST | W2FLG | ; SEE IF WRAP |
| 2650 | 021236 | 001001 | | | | BNE | WIDOA | ; IF SO: BR |
| 2651 | 021240 | 105105 | | | | COMB | R5 | COMPLIMENT EXPT DATA |
| 2652 | 021242 | 120562 | 000001 | | WIDOA: | CMPB | R5,1(R2) | CHECK COMPLIMENT DATA |
| 2653 | 021246 | 901510 | | | | BEQ | W1D3 | ; IF GOOD: BR |
| 2654 | 021250 | 032777 | 020000 | 157312 | W1D1: | BIT | #20000, #SWR | SEE IF PRINT INHIBIT |
| 2655 | 021256 | 001104 | | | | BNE | W1D3 | ; IF 80; BR |
| 2656 | 021260 | 005767 | 157334 | | | TST | HDRFL | SEE IF DONE HEADER |
| 2657 | 021264 | 001020 | | | | BNE | W1D2 | ; IF SO: BR |
| 2658 | 021266 | 016704 | 157330 | | | MOV | EMADDR, R4 | |
| 2659 | 021272 | 004767 | 002546 | | | JSR | PC, TTOUT | PRINT TEST HEADER |
| 2660 | 021276 | 012704 | 034740 | | | MOV | # WM8G16, R4 | |
| 2661 2662 | 021302 021306 | 004767 | 002536 | | | JSR | PC, TTOUT | PRINT BAD DATA TAG |
| 2663 | 021312 | 004767 | 035165 002526 | | | MOV | WMSG32,R4 | |
| 2664 | 021316 | | 157460 | | | JSR | PC,TTOUT | PRINT PATRN TAG |
| 2665 | 021322 | 004767 | 902660 | | | JSR | PATRN, R3 | - DDING DARREN WINDER |
| 2666 | 021326 | 012767 | 000001 | 157264 | W1D21 | MOV | PC,OCTP #1,HDRFL | PRINT PATTERN NUMBER |
| 2667 | 021334 | 012704 | 034764 | 13/204 | 41021 | MOV | #WMSG21,R4 | JOET HEADER FUNG |
| 2668 | 021340 | 004767 | 002500 | | | JSR | PC, TTOUT | PRINT CHAR NUMBER TAG |
| 2669 | 021344 | 016703 | | | | MOV | CRCNT, R3 | PERTUI CHAR HONDER ING |
| 2670 | 021350 | | 002632 | | | JSR | PC, OCTP | PRINT CHAR NUMBER |
| 2671 | 021354 | 012704 | | | | MOV | #WM8G17,R4 | Threat curk nousek |
| | | 004767 | | | | JSR | PC, TTOUT | PRNT GOOD TAG |
| 2673 | 021364 | 111105 | | | | MOVB | (R1),R5 | / |
| 2674 | 021366 | 110503 | | | | MOVB | R5, R3 | GET GOOD CHAR |
| 2675 | 021370 | 005767 | 157370 | | | TST | W2FLG | ISEE IF WRAP 2 |
| 2676 | 021374 | 001001 | | | | BNE | W1D2A | IF SO: BR |
| 2677 | 021376 | 105103 | | | | CONB | R3 | ELSE COMPLIMENT CHAR |
| 2678 | 021400 | 004767 | 003346 | | W1D2A: | JSR | PC, DOUT | PRINT CHARACTER |
| 2679 | 021404 | 012767 | 000240 | 157202 | | MOV | #240, TOB | |
| 2680 | 021412 | 004767 | 002542 | | | JSR | PC, TOG | SPACE |
| 2681 | 021416 | 110503 | | | | MOVB | R5, R3 | |
| 2682 | 021420 | 004767 | 003326 | | | JSR | PC, DOUT | PRINT CHAR |
| 2683 | 021424 | 012704 | 034757 | | | MOV | #WM8G20,R4 | |
| 2684 | 021430 | 004767 | 002410 | | | JSR | PC, TTOUT | PRINT BAD TAG |
| 2685 | 021434 | 116203 | 000001 | | | MOVB | 1(R2),R3 | |
| 2686 | 021440 | 004767 | 003306 | | | JSR | PC, DOUT | PRINT BAD CHAR |
| 2687 | 021444 | 012767 | 000240 | 157142 | | MOV | #240,TOB | |
| 2688 | 021452 | 994767 | 002502 | | | JSR | PC, TOG | SPACE |
| 2609 | 021456 | 111203 | | | | MOVB | (R2),R3 | |
| 2690 | 021460 | 004767 | 003266 | | | JSR | PC, DOUT | PRINT CHAR |
| 2691 | 021464 | 005267 | 157276 | | | INC | DERFI | IST DARK FRANCE |

| DZTUCE, | | or rogic | TEST | MACY11 27(732) | 18-MAR- | 76 13116 PAGE | 02 |
|---------|--------|----------|--------|----------------|---------|-----------------|-----------------------|
| 2692 | 021470 | 122122 | | W1D31 | CMPB | (R1)+,(R2)+ | BUMP ADDRESS |
| 2693 | 021472 | 105722 | | | TSTB | (R2)+ | BUMP ADDRESS |
| 2694 | 021474 | 005267 | 157274 | | INC | CRCNT | BUMP CHAR CHTR |
| 2695 | 021500 | 000406 | | | BR | W1D5 | |
| 2696 | 021502 | 005767 | 157256 | W1D4: | TST | W2FLG | ISEE IF WRAP 2 |
| 2697 | 021506 | 001401 | | | BEQ | W1D4A | IF NOTE BR |
| 2698 | 021510 | 999297 | | | RTS | PC | ELSE RETURN |
| 2699 | 021512 | 000167 | 177126 | WID4A: | JMP | PSCHK | GO CHECK POSTAMBLE |
| 2700 | 021516 | 005200 | | W1D51 | INC | RØ | ,00 00 |
| 2701 | 021520 | 001770 | | | BEQ | W1D4 | |
| 2702 | 021522 | 000167 | 177476 | | JMP | WIDO | |
| 2703 | | | | | | | |
| 2704 | | | | | PREAMBI | LE/POSTANBLE GE | NERATE SUBROUTINE |
| 2705 | | | | | , | | |
| 2706 | 021526 | 012700 | 000050 | PPGEN: | MOV | #50,R0 | SET SIZE OF PREAMBLE |
| 2707 | 021532 | 012701 | 035226 | | MOV | PRE, RI | 100- 0100 01 1104.000 |
| 2700 | 021536 | 005721 | | | TST | (R1)+ | SET ADDRESS OF PRE |
| 2709 | 021540 | 012721 | 177400 | PPG0: | MOV | #177400, (R1)+ | FILL TABLE |
| 2710 | 021544 | 005300 | | | DEC | RO | SEE IF DONE |
| 2711 | 921546 | 001374 | | | BNE | PPGO | IF NOTE BR |
| 2712 | 021550 | 012701 | 035350 | | MOV | POST, R1 | ISET ADDRESS OF POST |
| 2713 | 021554 | 012700 | 000050 | | MOV | 450, RO | ISET SIZE OF POST |
| 2714 | 021560 | 012721 | 000377 | | MOV | #377,(R1)+ | SET SYNC CHAR |
| 2715 | 021564 | 012721 | 177400 | PPG11 | MOV | 0177400, (R1)+ | FILL TABLE |
| 2716 | 021570 | 005300 | | | DEC | RØ | SEE IF DONE |
| 2717 | 021572 | 001374 | | | BNE | PPG1 | IF NOT: BR |
| 2718 | 021574 | 000207 | | | RTS | PC | |
| | ~~~~ | 200401 | | | K10 | | RETURN |

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| 2719 | | | | | | | | |
|------|--------|--------|--------|--------|---------|---------|---------------|------------------------------|
| 2721 | | | | | | SEND OF | RECORD FORCE | SUBROUTINE |
| 2722 | 021576 | 005269 | | | | | | |
| 2723 | 021602 | 005267 | 157074 | | EORPA: | INC | TEMP2 | 18ET WRAP FLAG |
| 2724 | 021606 | | 156726 | | EORPI | MOV | OHR, RO | JGET MAINT REG |
| 2725 | | 042700 | 000036 | | | BIC | #36,R0 | CLEAR CURRENT OP CODE |
| 2726 | 021612 | 052700 | 000024 | | | BIS | #24,R0 | SET EOR CLEAR OP CODE |
| 2727 | 021616 | 010077 | 156712 | | | MOA | RO, OMR | DO EOR |
| | 921622 | 842777 | 000037 | 156704 | | BIC | #37,0MR | CLEAR EOR AND MM |
| 2728 | 021630 | 005000 | | | | CLR | RO | |
| 2729 | 021632 | 612701 | 000002 | | | MOV | #2,R1 | |
| 2730 | 021636 | 032777 | 000001 | 156644 | EORP1: | BIT | 01,0C1 | SEE IF GO GONE |
| 2731 | 021644 | 001431 | | | | BEQ | EORP2 | 11F 801 BR |
| 2732 | 921646 | 005300 | | | | DEC | RO | |
| 2733 | 021650 | 001372 | | | | BNE | EORP1 | ; AWAIT GO RESET |
| 2734 | 021652 | 005301 | | | | DEC | R1 | |
| 2735 | 021654 | 901370 | | | | BNE | EORP1 | |
| 2736 | 021656 | 032777 | 020000 | 156704 | | BIT | #20000, #8WR | ; SEE IF ERROR PRINT INHIBIT |
| 2737 | 821664 | 001021 | | | | BNE | EORP2 | 11F 801 BR |
| 2730 | 021666 | 005767 | 156726 | | | 787 | HDRFL | SEE IF DONE HEADER |
| 2739 | 021672 | 861884 | | | | BNE | EORP1A | IIF SO: BR |
| 2740 | 021674 | 016704 | 156722 | | | MOV | ENADDR, R4 | |
| 2741 | 021700 | 884767 | 002140 | | | JSR | PC, TTOUT | PRINT HEADER |
| 2742 | 021704 | 012704 | 035130 | | EORP1A: | MOV | OWNSG31,R4 | |
| 2743 | 021710 | 004767 | 002130 | | | JSR | PC, TTOUT | PRINT EOR GO BIT ERROR |
| 2744 | 021714 | 632777 | 100000 | 156646 | | BIT | #100000, #SHR | SEE IF HALT ON ERROR |
| 2745 | 021722 | 001402 | | | | BEQ | EORP2 | IF NOT: BR |
| 2746 | 021724 | 884767 | 003232 | | | JSR | PC. STOP | , |
| 2747 | 021730 | 005767 | 156742 | | EORP2: | TST | TENP2 | JAEE IF WAM |
| 2748 | 021734 | 001014 | | | | BNE | EORPX | IT NOTE BR |
| 2749 | 021736 | 032777 | 000200 | 156624 | | BIT | 1200, 08WR | SEE IF STATUS CHECK |
| 2750 | 021744 | 001002 | | | | BNE | EORP3 | IIF NOTE BR |
| 2751 | 921746 | 004767 | 175154 | | | JSR | PC, WSTCK | ELSE GO CHECK STATUS |
| 2752 | 021752 | 032777 | 000400 | 156610 | EORP3: | BIT | 4400,08WR | , SEE IF DATA CHECK |
| 2753 | 021760 | 001002 | | | | BNE | EORPX | IF NOT: BR |
| 2754 | 621762 | 884767 | 175430 | | | JSR | PC, DCHK | ELSE GO CHECK DATA |
| 2755 | 021766 | 005067 | 156704 | | EORPX: | CLR | TEMP2 | CLEAR FLAG |
| 2756 | 021772 | 000207 | | | | RTS | PC | RETURN |
| 2757 | | | | | | | • | 1 ve t Avu |
| 2757 | | | | | | | | JACTORN . |

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| 2758 | | | | | | LOGIC | TEST ADDRESSING | ERROR SUBROUTINE |
|------|--------|--------|--------|--------|---------|-------|-----------------|----------------------------|
| 2759 | | | | | | | | |
| 2760 | 021774 | 605067 | 156716 | | LTGER3: | | EXFL | |
| 2761 | 022000 | 012767 | 027225 | 156664 | | MOV | MAGS1, ERADD | |
| 2762 | 922996 | 012767 | 000001 | 156732 | LTGERØ: | | #1,ADDFL | SET NO ADDRESS FLAG |
| 2763 | 022014 | 005067 | 156646 | | LTGER | CLR | PFLG | ICLEAR PRINT PLAG |
| 2764 | 022020 | 032777 | 020000 | 156542 | | BIT | 120000, 08WR | ISEE IF SHOULD PRINT |
| 2765 | 022026 | 001402 | | | | BEQ | LTGA | 11F 801 BR |
| 2766 | 022030 | 000167 | 000224 | | | JMP | LTGX | ;ELSE GO TO EXIT |
| 2767 | 022034 | 005767 | 156560 | | LTGA: | TST | HDRFL | SEE IF PRINTED HEADER |
| 2768 | 022040 | 001004 | | | | BNE | LTGA1 | ; IF 80; BR |
| 2769 | 022042 | 016704 | 156554 | | | MOV | ENADDR, R4 | |
| 2770 | 022046 | 004767 | 001772 | | | JSR | PC, TTOUT | PRINT TEST HEADER |
| 2771 | 022052 | 012767 | 000001 | 156540 | LTGA1: | MOA | 01, HDRFL | SET HEADER FLAG |
| 2772 | 022060 | 016704 | 156606 | | | MOA | ERADD, R4 | |
| 2773 | 022064 | 004767 | 001754 | | | JSR | PC, TTOUT | PRINT CONDITION ERROR |
| 2774 | 022070 | 005767 | 156652 | | | TST | ADDFL | |
| 2775 | 022074 | 001003 | | | | BNE | LTGA2 | |
| 2776 | 022076 | 010103 | | | | MOA | R1, R3 | |
| 2777 | 022100 | 994767 | 002102 | | | JSR | PC, OCTP | PRINT ADDRESS |
| 2778 | 022104 | 005767 | 156606 | | LTGA21 | TST | EXPL | |
| 2779 | 022110 | 001412 | | | | BEQ | LTGC | ; IF NO STATUS: BR |
| 2780 | 022112 | 012704 | 025524 | | | MOV | #MSG6,R4 | |
| 2781 | 022116 | 022767 | 000001 | 156572 | | CMP | 01,EXFL | ;EXPT-NOT RCVD |
| 2782 | 022124 | 001402 | | | | BEQ | LTGB | |
| 2783 | 022126 | 012704 | 025543 | | | MOA | #MSG7,R4 | RCVD-NOT EXPT |
| 2704 | 022132 | 004767 | 001706 | | LTGB: | JSR | PC, TTOUT | PRINT STATUS |
| 2705 | 022136 | 005267 | 156524 | | LTGC: | INC | PFLG | |
| 2786 | 022142 | 005767 | 156600 | | | TST | ADDFL | ISEE IF ADD TST |
| 2787 | 022146 | 001430 | | | | BEQ | LTGD | ; IF SO; BR |
| 2788 | 022150 | 805767 | 156570 | | | TST | T24FL | ISEE IF TEST 24 |
| 2789 | 022154 | 001423 | | | | BEQ | LTGCO | ; IF NOT; BR |
| 2798 | 022156 | 012704 | 035060 | | | MOA | #WMSG27,R4 | |
| 2791 | 022162 | 004767 | 001656 | | | JSR | PC, TTOUT | PRINT DATA TAG |
| 2792 | 022166 | 012704 | 026022 | | | MOA | 8M8G12,R4 | |
| 2793 | 022172 | 004767 | 001646 | | | JSR | PC, TTOUT | PRINT EXPT TAG |
| 2794 | 022176 | 012703 | 177777 | | | MOA | 0-1,R3 | |
| 2795 | 022202 | 004767 | 001770 | | | JSR | PC, OCTPE | PRINT EXPT |
| 2796 | 022206 | 012704 | 026031 | | | MOA | ##8G13,R4 | |
| 2797 | 022212 | 004767 | 001626 | | | JSR | PC, TTOUT | PRINT RCVD TAG |
| 2798 | 022216 | 010103 | | | | MOA | R1, R3 | GET RCVD |
| 2799 | 022220 | 804767 | 001752 | | | JSR | PC, OCTPE | PRINT RCVD |
| 2800 | 022224 | 004767 | 000102 | | LTGCO | JSR | PC, REGP | PRINT REGISTERS |
| 2001 | 022230 | 032777 | 010000 | 156332 | LTGD: | BIT | #10000, 08WR | |
| 2002 | 022236 | 001010 | | | | BNE | LTGX | |
| 2803 | 022240 | 012704 | 026073 | | | MOA | ##8G16,R4 | |
| 2804 | 022244 | 004767 | 001574 | | | JSR | PC, TTOUT | |
| 2005 | 022250 | 016703 | 156426 | | | MOV | ITCNT, R3 | PRINT ITERATION |
| 2006 | 022254 | 004767 | 001726 | | | JSR | PC, OCTP | |
| 2807 | 822268 | 005777 | 156304 | | LTGX: | TST | 08WR | |
| 2800 | 022264 | 100002 | | | | BPL | LTGXA | ; IF NOT STOP ON ERROR: BR |
| 2809 | 022266 | 884767 | 002670 | | | JSR | PC, STOP | |
| 2010 | 022272 | 005767 | 156370 | | LTGXA: | TST | PFLG | |
| 2011 | 022276 | 001006 | | | | BNE | LTGXX | IF PRINTED: BR |
| 2012 | 022300 | 032777 | 020000 | 156262 | | BIT | #20000, #8WR | |
| 2013 | 022306 | 001002 | - | | | BHE | LTGYY | TE STILL NA BRINT. BR |
| | | | | | | | | |

DZTUCE, P11 2814 022310 000167 177520 JMP LTGA ; ELSE GO PRINT ERROR 2815 022314 005067 156426 LTGXX: CLR ADDFL CLEAR ADDRESS FLAG 2816 022320 005067 156372 CLR EXFL 2817 022324 000167 001044 JMP SCOPE 2818 022330 000207 RTS PC PEXIT 2019 2820 SUBROUTINE TO PRINT MAJOR REGISTERS 2821 022332 MOV 2822 012704 027050 REGPI 8M8G46, R4 2023 022336 994767 JSR PC, TTOUT 001502 PRINT REGISTER HEADER 022342 2824 017703 156142 MOV 0C1.R3 2825 022346 004767 001624 JSR PC, OCTPE 2026 022352 017703 156134 MOV OWC, R3 2027 022356 884767 001614 JSR PC, OCTPE 2828 822362 017703 156126 MOV OBA, R3 2029 022366 004767 001604 JSR PC. OCTPE 2830 922372 917703 156120 VOM OFC, R3 2031 022376 004767 001574 JSR PC, OCTPE 2832 022402 817783 156112 MOV OCS.R3 2833 022406 884767 901564 JSR PC, OCTPE 2834 022412 017703 156104 MOV 0D8, R3 2835 022416 004767 001554 JSR PC. OCTPE PRINT REGISTERS 2036 022422 017703 156076 MOV OER, R3 2837 001544 PC, OCTPE 022426 004767 JSR 2838 022432 017703 156070 MOV OAS, R3 2839 822436 884767 001534 JSR PC, OCTPE 2840 022442 017703 156066 MOV OMR, R3 2841 022446 004767 001524 PC. OCTPE JSR 2842 022452 017703 156064 MOV OTC.R3 2843 022456 004767 001514 JSR PC, OCTPE 2844 022462 000207 RTS 2845 2846

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| 2847 | | | | | | DRIVE | CLEAR SUBROUTINE | [00000000 |
|------|------------------|--------|--------|--------|---------|------------|------------------|---|
| 2848 | 822464 | 012704 | 040000 | | DRVCLRE | NOV | 140000,R4 | |
| 2050 | 022470 | 005304 | 940000 | | DCD: | DEC | R4 | |
| 2051 | 022472 | 001376 | | | 000. | BNE | DCD | DELAY |
| 2852 | 022474 | 005067 | 156166 | | | CLR | PFLG | 10000 |
| 2053 | 022500 | 004767 | 000222 | | | JSR | PC, ATTN | GO SEE OF ATTN SET |
| 2054 | 022504 | 012777 | 000011 | 155776 | | MOV | 011,0C1 | ISSUE DRIVE CLEAR |
| 2055 | 022512 | 005000 | | | | CLR | RO | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 2056 | 022514 | 032777 | 000200 | 156000 | DCAS | BIT | #200,0D8 | ISEE IF DRY |
| 2057 | 022522 | 001002 | | | | BNE | DCAO | |
| 2050 | 022524 | 005300 | | | | DEC | RO | |
| 2859 | 022526 | 001372 | | | | BNE | DCA | WAIT FOR DRY |
| 2860 | 022530 | 032777 | 040000 | 155764 | DCA01 | BIT | 44000, ODS | ISEE IF ERR RESET |
| 2861 | 022536 | 001024 | | | | BNE | DCE | ; IF NOT: BR |
| 2862 | 022540 | 005777 | 155760 | | | TST | OER . | SEE IF ERROR REGISTER RESET |
| 2863 | 022544 | 001021 | | | | BNE | DCE | IF NOT! BR |
| 2864 | 022546 | 005777 | 155750 | | | TST | 008 | ISEE IF ATA RESET |
| 2865 | 022552 | 100416 | | | | BMI | DCE | ; IF NOT: BR |
| 2866 | 022554 | 012703 | 000001 | | | MOV | #1,R3 | ISET TEST BIT |
| 2867 | 022560 022564 | 016704 | 156040 | | | MOV | DRYN, R4 | GET DRIVE NUMBER |
| 2869 | 022566 | 005704 | | | | TST | R4 DCC | SEE IF DRIVE O |
| 2870 | 022570 | 000241 | | | DCB: | CFC | Dec | 11F 801 BR |
| 2871 | 022572 | 006103 | | | ocs. | ROL | R3 | POSITION TEST BIT PER DRIVE NUMBER |
| 2872 | 022574 | 005304 | | | | DEC | R4 | SEE IF DONE |
| 2873 | 022576 | 001374 | | | | BNE | DCB | ; IF NOT: BR |
| 2874 | 022600 | 030377 | 155722 | | DCC: | BIT | R3,0A5 | ISEE IF ATTEN IS RESET |
| 2875 | 022604 | 001001 | | | | BNE | DCE | IF NOT: BR |
| 2876 | 022606 | 000207 | | | | RTS | PC | RETURN |
| 2877 | 022610 | 032777 | 929999 | 155752 | DCE: | BIT | #20000, #8WR | ISEE IF ERROR PRINT INHIBIT |
| 2878 | 022616 | 801017 | | | | BNE | DCEX | 11F 801 BR |
| 2879 | 022620 | 005767 | 155774 | | | TST | HDRFL | ISEE IF PRINT HEADER |
| 5880 | 022624 | 901004 | | | | BNE | DCEA | ; IF NOT: BR |
| 2881 | 022626 | 016704 | 155770 | | | MOA | EMADDR, R4 | |
| 2882 | 022632 | 004767 | 001206 | | | JSR | PC,TTOUT | PRINT HEADER |
| 2003 | 022636 | 012704 | 027154 | | DCEA: | MOA | #M8G47,R4 | |
| 2004 | 022642 | 004767 | 001176 | | | JSR | PC, TTOUT | PRINT DRIVE CLEAR ERROR |
| 2885 | 022646 | 004767 | 177460 | | | JSR | PC, REGP | PRINT REGISTERS |
| 2886 | 022652 | 005267 | 156010 | | | INC | PFLG | SET PRINTED FLAG |
| 2887 | 022656 022662 | 100002 | 155706 | | DCEX: | TST BPL | 98WR DCEXA | ; SEE IF HALT ON ERROR ; IF NOT: BR |
| 2889 | 022664 | 884767 | 002272 | | | JSR | PC, STOP | Itt woll ok |
| 2890 | 022670 | 005767 | 155772 | | DCEXAL | TST | PFLG | ; SEE IF HAVE PRINTED |
| 2091 | 022674 | 001006 | | | 202441 | BNE | DCEXX | ; IF SO: BR |
| 2892 | 022676 | 032777 | 020000 | 155664 | | BIT | 42/000, 08WR | SEE IF SHOULD PRINT |
| 2893 | 022704 | 001002 | | | | BNE | DCEXX | IF NOT: BR |
| 2894 | 022706 | 000167 | 177676 | | | JMP | DCE | ELSE PRINT THIS ERROR |
| 2895 | 022712 | 012767 | 022464 | 155772 | DCEXX: | MOV | *DRVCLR, SCOLP | SET SCOPE LOOP ADDRESS |
| 2896 | 822728 | 800167 | 000450 | | | JMP | SCOPE | 1GO DO SCOPE LOOP |
| 2897 | 022724 | 898287 | | | | RTS | PC | RETURN |
| | | | | | | | | - Barana - B |

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| 384 | | | | | | | | |
|--------------|--------|------------------|--------|--------|--------|-------------------|-------------------|----------------------------|
| 2898 | | | | | | COMP | OSITE ERROR CHECK | SUBROUTINE |
| 2899 | 822726 | 005777 | 155570 | | | | 404 | |
| | | | 155570 | | ATTN: | TST | •DS | ISEE IF ATA SET |
| 2901 | 022732 | 001005 | | | | BNE | ATTA | ;IF SO; BR |
| 2903 | 022734 | 012767 | 026512 | 155736 | | MOA | MAG32, TEMP3 | |
| 2903 | 022742 | 000167 | 000064 | | | JMP | ATTP | ;ELSE PRINT ERROR |
| 2904 | 022746 | 032777 | 949999 | 155546 | ATTAL | BIT | #40000, 0D8 | ISEE IF COMPOSITE ERROR SE |
| 2905 | 022754 | 001005 | | | | BNE | ATTB | 11F 801 BR |
| 2906 | 022756 | 012767 | 026474 | 155714 | | MOA | OMSG31, TEMP3 | |
| 2997 | 022764 | 000167 | 000042 | | | JMP | ATTP | ; ELSE PRINT ERROR |
| 2908 | 022770 | 012703 | 000001 | | ATTB: | MOA | 01,R3 | ISET TEST BIT |
| 2909 | 022774 | | | 155676 | | MOA | #MSG33, TEMP3 | |
| 2910 | 023002 | | 155616 | | | MOY | DRYN, R4 | GET DRIVE NUMBER |
| 2911 | 023006 | 005704 | | | | TST | R4 | ISEE IF DRIVE . |
| 2912 | 023010 | 001404 | | | | BEQ | ATTD | IF SOI BR |
| 2913 | 023012 | 800241 | | | ATTC: | CLC | | |
| 2914 | 023014 | 006103 | | | | ROL | R3 | POSITION TEST BIT |
| 2915 | 023016 | 005304 | | | | DEC | R4 | SEE IF DONE |
| 2916 | 023020 | 001374 | | | | BNE | ATTC | IF NOT: BR |
| 2917 | 023022 | 030377 | 155500 | | ATTD: | BIT | R3, GAS | ISEE IF ATTEN SUMMARY SET |
| 2918 | 023026 | 001401 | | | | BEQ | ATTP | IF NOT: BR |
| 2919 | 023030 | 000207 | | | | RTS | PC | IELSE RETURN |
| 2920 | 023032 | 032777 | 020000 | 155530 | ATTP: | BIT | #20000, #8WR | SEE IF PRINT INHIBIT |
| 2921 | 023040 | 001021 | | | | BNE | ATTX | IF SO: BR |
| 2922 | 023042 | 005767 | 155552 | | | TST | HDRFL | SEE IF DONE HEADER |
| 2923 | 023046 | 001004 | | | | BNE | ATTPA | 117 801 BR |
| 2924 | 023050 | 016704 | 155546 | | | MOY | EMADDR. R4 | 10. 00. 0. |
| 2925 | 023054 | 004767 | 000764 | | | JSR | PC, TTOUT | PRINT HEADER |
| 2926 | 023060 | 016704 | 155614 | | ATTPAL | MOV | TEMP3, R4 | 114041 11011011 |
| 2927 | 023064 | 004767 | 000754 | | | JSR | PC, TTOUT | PRINT ERROR TYPE |
| 2928 | 023070 | 004767 | 177236 | | | JSR | PC, REGP | PRINT REGISTERS |
| 2929 | 023074 | 005267 | 155566 | | | INC | PFLG | ISET PRINT FLAG |
| 2930 | 023100 | 005267 | 155514 | | | INC | HDRFL | SET HEADER FLAG |
| 2931 | 023104 | 005777 | 155460 | | ATTX: | TST | 98WR | |
| 2932 | 023110 | 100002 | 133400 | | WILV. | BPL | | SEE IF HALT ON ERROR |
| | | | 002044 | | | The second second | ATTXA | ; IF NOT: BR |
| 2933 2934 | 023112 | 004767 005767 | 002044 | | | JSR | PC. STOP | |
| 2935 | 023116 | | 155544 | | ATTXA | TST | PFLG | ISEE IF DONE PRINT |
| | 023122 | 001006 | | | | BNE | ATTXX | ; IF SO; BR |
| 2936 | 023124 | 032777 | 020000 | 155436 | | BIT | 120000,08WR | SEE IF SHOULD PRINT |
| 2937 | 023132 | 001002 | | | | BNE | ATTXX | ; IF NOT: BR |
| 2930 | 023134 | 000167 | 177672 | | | JMP | ATTP | ELSE PRINT ERROR |
| 2939 | 023140 | 005067 | 155522 | | ATTXX | CLR | PFLG | ICLEAR PRINT FLAG |
| 2940 | 023144 | 000207 | | | | RTS | PC | RETURN |

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| 2941 2942 | | | | | | LOGIC | TEST REGISTER | IT ERROR SUBROUTIINE |
|--------------|--------|--------|--------|--------|---------|-------|---------------|---|
| 2943 | 023146 | 012767 | 000001 | 155562 | LTGER2: | MOV | #1,PEXFL | SET FLAG |
| 2944 | 023154 | 005067 | 155506 | | LTGER11 | | PFLG | CLEAR PRINT PLAG |
| 2945 | 023160 | 032777 | 920000 | 155402 | 0.000 | BIT | 120000, 05WR | SEE IF PRINT ERRORS |
| 2946 | 023166 | 001402 | 5.0000 | | | BEO | LTGIA | 11F 801 BR |
| 2947 | 023170 | 000167 | 000132 | | | JMP | LTGIX | ELSE GO TO EXIT |
| 2948 | 023174 | 005767 | 155420 | | LTG1A: | TST | HDRFL | SEE IF PRINT HEADER |
| 2949 | 023200 | 001004 | | | | BNE | LTGIB | IF NOTE BR |
| 2950 | 023202 | 016704 | 155414 | | | MOV | EMADDR, R4 | 111 HOLL BK |
| 2951 | 023206 | 004767 | 000632 | | | JSR | PC, TTOUT | PRINT HEADER |
| 2952 | 023212 | 012767 | 000001 | 155400 | LTG18: | NOV | 01, HDRFL | SET FLAG |
| 2953 | 023220 | 016704 | 155446 | | | MOV | ERADD, R4 | 1001 1000 |
| 2954 | 023224 | 894767 | 000614 | | | JSR | PC, TTOUT | PRINT ERROR CODE |
| 2955 | 023230 | 005767 | 155502 | | | TST | PEXFL | SEE IF PRINT EXPT-RCVD |
| 2956 | 023234 | 001016 | | | | BNE | LTGIT | IF NOTE BR |
| 2957 | 023236 | 012704 | 026022 | | | MOV | #M8G12,R4 | 101 4011 00 |
| 2958 | 023242 | 004767 | 000576 | | | JSR | PC, TTOUT | PRINT EXPT TAG |
| 2959 | 023246 | 010103 | 0000.0 | | | MOV | R1,R3 | Ithen out in |
| 2960 | 023250 | 004767 | 000732 | | | JSR | PC, OCTP | PRINT EXPT |
| 2961 | 023254 | 012704 | 026031 | | | MOV | ##8G13,R4 | ILLEN PALT |
| 2962 | 023260 | 004767 | 999569 | | | JSR | PC, TTOUT | PRINT RCVD TAG |
| 2963 | 023264 | 010203 | | | | MOV | R2,R3 | Trans vere sue |
| 2964 | 023266 | 004767 | 000714 | | | JSR | PC, OCTP | PRINT RCVD |
| 2965 | 023272 | 032777 | 010000 | 155270 | LTG1T: | BIT | #10000, #8WR | Tracks Nove |
| 2966 | 023300 | 001010 | | | | BNE | LTGIC | |
| 2967 | 023302 | 012704 | 026073 | | | MOV | #MSG16,R4 | |
| 2968 | 023306 | 004767 | 000532 | | | JSR | PC, TTOUT | |
| 2969 | 023312 | 016703 | 155364 | | | MOV | ITCNT, R3 | |
| 2970 | 023316 | 004767 | 000664 | | | JSR | PC, OCTP | PRINT ITERATION |
| 2971 | 023322 | 005267 | 155340 | | LTG1C: | INC | PFLG | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 2972 | 023326 | 005777 | 155236 | | LTG1X: | TST | OSWR | |
| 2973 | 023332 | 100002 | | | | BPL | LTG1X1 | IF NOT STOP ON ERROR: BR |
| 2974 | 023334 | 004767 | 001622 | | | JSR | PC, STOP | , at mot brot on among on |
| 2975 | 023340 | 005767 | 155322 | | LTG1X1: | | PFLG | |
| 2975 | 023344 | 001006 | | | | BNE | LTG1XX | ; IF HAVE PRINTED; BR |
| 2977 | 023346 | 032777 | 020000 | 155214 | | BIT | 920000, 05WR | , |
| 2978 | 023354 | 001002 | | | | BNE | LTG1XX | ; IF STILL NO PRINT: BR |
| 2979 | 023356 | 000167 | 177612 | | | JMP | LTG1A | ELSE PRINT ERROR |
| 2980 | 023362 | 005067 | 155350 | | LTG1XX: | | PEXFL | CLEAR EXPT-RCVD FLAG |
| 2981 | 823366 | 000167 | 000002 | | | JMP | SCOPE | GO TO SCOPE |
| 2982 | 023372 | 000207 | | | | RTS | PC | RETURN |
| 2983 | | | | | | | | |
| | | | | | | | | |

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| 2984 | | | | | | SCOPE | LOOP ON ERROR | SUBROUTINE |
|------|--------|--------|--------|--------|---------|----------|----------------|-----------------------------|
| 2986 | | | | | | | | |
| 2987 | 923374 | 884767 | 001042 | | SCOPES | JSR | PC, CKSWR | CHECK FOR CONTROL G |
| 2988 | 023400 | 032777 | 040000 | 155162 | | BIT | 140000, 08WR | ISEE IF LOOP ON ERROR |
| 2989 | 023406 | 001001 | 040000 | | | BNE | SCOPE1 | IF SO: BR |
| 2990 | 023410 | 000207 | | | | | | |
| 2991 | 023412 | 005726 | | | | RTS | PC | ELSE EXIT |
| | | | | | SCOPE1: | | (8P)+ | RESET STACK |
| 2992 | 023414 | 800177 | 155272 | | | JMP | 08COLP | ; LOOP ON ERROR |
| 2993 | | | | | | | | |
| 2994 | | | | | | I TEST I | TERATION SUBRO | UTINEOGGOGGOGG |
| 2995 | | | | | | | | |
| 2996 | 023420 | 032777 | 016000 | 155142 | ITER: | BIT | 010000, 08WR | ISEE IF ITERATIONS |
| 2997 | 023426 | 001403 | | | | BEO | ITER1 | ; IF SO; BR |
| 2998 | 023430 | 005067 | 155246 | | ITERO: | CLR | ITCHT | CLEAR ITERATION COUNTER |
| 2999 | 023434 | 000207 | | | | RTS | PC | PELSE EXIT |
| 3000 | 023436 | 005267 | 155240 | | ITER1: | INC | ITCNT | IBUMP COUNTER |
| 3001 | 023442 | 026767 | 155234 | 155136 | | CMP | ITCHT, ITAMT | SEE IF DONE ALL |
| 3002 | 023450 | 001767 | ••••• | | | BEO | ITERO | 11F 501 BR |
| 3003 | 023452 | 005726 | | | | 787 | (8P)+ | RESET STACK |
| 3004 | 023454 | 017700 | 155234 | | | MOY | OITRLP, RO | SET ITERATION POINTER |
| 3005 | 023460 | 000110 | | | | JMP | (RO) | |
| 3006 | 023400 | | | | | UNF | () | GO ITERATE |
| | | | | | | - WANIOS | | |
| 3007 | | | | | | IMAMUAL | INTERACULTON | INHIBITeeeeeee |
| 3000 | | | | | | | | |
| 3009 | 023462 | 012704 | 026700 | | INMT: | MOA | 9M8G43,R4 | |
| 3010 | 023466 | 994767 | 000352 | | | JSR | PC,TTOUT | GO PRINT INHIB MSG |
| 3011 | 023472 | 004767 | 001464 | | | JSR | PC, STOP | |
| 3012 | 023476 | 000167 | 156414 | | | JMP | TSCD2 | RETURN TO SCHED |
| 3013 | | | | | | | | 아보다 이 경우 보다 내가 있다면 되었다. 사이지 |

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| 3014 3015 3016 | | | | | | INITIA | LIZE SUBROUT | [NE | |
|----------------------|--------|--------|--------|--------|--------|----------|---------------|---|---------------|
| 3017 | 023502 | 012777 | 000040 | 155010 | INIT1: | MOV | 840,0C8 | PINIT | |
| 3010 | 023510 | 016777 | 155110 | 155002 | INIT2: | MOV | DRVN, OCS | SELECT | DRIVE |
| 3019 | 023516 | 016777 | 155142 | 155016 | | MOV | SLVN, OTC | SELECT | |
| 3020 | 023524 | 808287 | | 100010 | | RTS | PC | RETURN | |
| 3021 | | | | | | | | 1 2000 | |
| 3022 | | | | | | MANUAL | INSTRUCTION | SUBROUTINE | ******* |
| 3023 | | | | | | | | | |
| 3024 | 923526 | 804767 | 000312 | | INST | JSR | PC, TTOUT | IPRINT | INSTRUCTION |
| 3025 | 023532 | 012704 | 033212 | | | MOV | MMSG0,R4 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 3026 | 023536 | 004767 | 000302 | | | JSR | PC, TTOUT | PRINT | REPLY |
| 3027 | 023542 | 012705 | 000700 | | | MOV | OTEMP3, RS | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 3028 | 023546 | 012701 | 000001 | | | MOV | 01,R1 | | |
| 3029 | 023552 | 012702 | 177777 | | | MOV | 0-1,R2 | | |
| 3030 | 023556 | 012703 | 000000 | | | MOV | 00,R3 | | |
| 3031 | 023562 | 004767 | 000020 | | | JSR | PC, TTR | TIAWALT | DEDLY |
| 3032 | 023566 | 000207 | | | | RTS | PC | EXIT | noru. |
| 3033 | | | | | | | | , | |
| 3034 | | | | | | · MAG TA | PE INTERRUPT | HANDI FRANCE | ***** |
| 3035 | | | | | | 1 | LE THIENKOLT | UNUDDEKAAAA | |
| 3036 | 023570 | 822626 | | | MTINTE | CHP | (SP)+,(SP)+ | .05457 | STACK POINTER |
| 3037 | 023572 | 000240 | | | | NOP | (00),,,(00), | 14505. | 914FU LATHIBU |
| 3038 | 023574 | 000240 | | | | NOP | | | |
| 3039 | 023576 | 000177 | 155066 | | | JMP | ORTRN | . DETUNN | TO CALLER |
| 3040 | 023310 | 000111 | 133000 | | | OWL | 4414W | INSTAN | to curren |
| 3041 | | | | | | TTY IN | TERRUPT HANDI | FD | |
| 3042 | | | | | | 1111 | TEKLALI HWAR | Proceedings | |
| 3043 | 023602 | | | | TTINTE | | | | |
| 3044 | 023602 | 899249 | | | ****** | NOP | | | |
| 3045 | 023604 | 808082 | | | | | | | |
| | 823084 | 966665 | | | | RTI | | | |
| 3046 | | | | | | | | | |

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023742

023744

023750

023752

023732

006100

000241

006100

842767

056700

005301

001332

920002

101402

000167

020300

101402

000167

010015

000207

177770

154672

000014

000004

154676

THIS SUBROUTINE IS USED BY THE TEST CONDITION
SENTRY ROUTINE TO READ THE RESPONSE ENTERED
SAT THE TTY AND CHECK THEM FOR LEGALITY AND
SLIMITS. ALL RESPONSE MUST BE TYPED IN OCTAL
S(0-7) AND MUST FALL WITHIN THE LIMITS SET BY
STHE CALLING ROUTINE.
SIF AN ENTRY IS ILLEGAL OR OUTSIDE THE LIMITS,
SA GUESTION MARK IS TYPED (?) AND THE RESPONSE
SMAY BE REENTERED.
SENTRIES MAY NOT EXCEED SIX (6) CHARACTERS AND
SMAY BE TERMINATED AT LESS THAN SIX BY TYPING A
SCARRIAGE RETURN

3063 3064 923606 005067 155062 TIRE CLR TEMP1 ICLEAR FIRST CHARACTER FLAG 3965 023612 005000 CLR RO 3066 023614 884767 000152 TTRO: PC, TTIN JSR GO READ CHARACTER 3067 023620 122767 000215 CMPB 154770 #215, TIB ISEE IF CR 3068 023626 001005 BNE TTR1 IF NOT: BR 3069 005767 023630 155040 TST TEMP1 ISEE IF FIRST CHARACTER 3070 023634 001446 BEQ TTRS IF SO: BR 3071 023636 000167 000066 JMP TTR2 FELSE GO LOAD VALUE 3072 823642 122767 154746 TTR11 000260 CHPB #260.TIB ISEE IF CHAR IS LESS THAN . 3073 023650 101402 BLOS TIRIA IF NOTE BR 3074 023652 000167 000076 JMP TINER FELSE GO TO ERROR 3075 023656 122767 000270 154732 TTR1A: CMPB 0270, TIB ISEE IF CHAR IS GREATER THAN 7 3076 023664 101002 BHI TTRIB IF NOT: BR 3077 023666 000167 000062 JMP TINER ELSE GO TO ERROR 3078 023672 005267 154776 TTRIB: INC TEMP1 ISET FIRST CHARACTER FLAG 3079 023676 900241 CLC 3080 023700 006100 ROL RO 3081 023702 000241 CLC

ROL

CLC

ROL

BIC

BIS

DEC

BNE

CMP

BLOS

JMP

CMP

JMP

MOV

RTS

BLOS

TTR2:

TTR3:

TTR41

TTR5:

RO ; SHIFT 3 LEFT #177770.TIB STRIP ASCII TIB, RO LOAD CHARACTER : SEE IF DONE TTRO IF NOT: BR RO, R2 ; SEE IF EXCEEDED MAXIMUM LIMIT TTR3 JIF NOTE BR TINER ;ELSE GO TO ERROR R3. R0 ISEE IF BELOW MINIMUM LIMIT TTR4 IIF NOTE BR TINER PELSE GO TO ERROR LOAD VALUE RØ, (R5) TIXE

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| 3098 | | | | | | | | |
|------|--------|--------|--------|--------|---------|-------|------------------|-------------------------------------|
| 3099 | | | | | | ITTY | ENTRY ERROR SUBR | OUTINE |
| 3100 | | | | | | | | |
| 3101 | | 012704 | 026640 | | TINER | MOV | #M8G48,R4 | |
| 3102 | 023760 | 884767 | 000060 | | | JSP | PC, TTOUT | ;PRINT? |
| 3103 | | 162716 | 000020 | | | SUB | 020, (8P) | PRESET SP TO START OF VALUE ROUTINE |
| 3104 | 023770 | 000207 | | | | RTS | PC | FREDO VALUE ENTRY |
| 3105 | | | | | | | | |
| 3106 | | | | | | .TTY | READ SUBROUTINE | ******* |
| 3107 | | | | | | | | |
| 3100 | | 005077 | 154574 | | TTIN: | CLR | OTKS | |
| 3109 | | 005077 | 154572 | | | CLR | OTKB | |
| 3110 | | 005067 | 154610 | | | CLR | TIB | |
| 3111 | | 005277 | 154560 | | | INC | OTKS | |
| 3112 | | 105777 | 154554 | | TTIN1: | TSTB | OTK8 | |
| 3113 | | 100375 | | | | BPL | TTINI | |
| 3114 | | 017767 | 154550 | 154570 | | MOV | OTKB, TIB | |
| 3115 | | 105777 | 154544 | | TTIN2: | TATE | OTP8 | |
| 3116 | | 100375 | | | | BPL | TTIN2 | |
| 3117 | | 116777 | 154556 | 154536 | | HOVB | TIB, OTPB | |
| 3118 | | 000207 | | | | RTS | PC | |
| 3119 | | | | | | | | |
| 3120 | | | | | | ITTY | OUTPUT SUBROUTIN | E |
| 3121 | | | | | | | | |
| 3122 | | 112467 | 154544 | | TTOUTS | HOVB | (R4)+, TOB | |
| 3123 | | 122767 | 000043 | 154536 | | CHPB | 043, TOB | |
| 3124 | | 801446 | | | | BEQ | TEX | |
| 3125 | | 122767 | 000045 | 154526 | | CMPB | 045, TOB | |
| 3126 | | 001403 | | | | BEQ | TCRLF | |
| 3127 | 024070 | 004767 | 000064 | | | JSR | PC, TOG | |
| 3128 | | 000763 | | | | BR | TTOUT | |
| 3129 | | 112767 | 000015 | 154510 | TCRLF | MOVB | 015, TOB | |
| 3130 | | 004767 | 000050 | | | JSR | PC, TOG | |
| 3131 | 024110 | 012703 | 999994 | | | MOV | #4,R3 | |
| 3132 | | 005067 | 154474 | | TCRLFA: | | TOB | |
| 3133 | | 004767 | 000034 | | | JSR | PC, TOG | |
| 3134 | | 005303 | | | | DEC | R3 | |
| 3135 | | 901372 | | | | BNE | TCRLFA | 100 FILLERS |
| 3136 | | 112767 | 000012 | 154456 | | MOVB | 012,TOB | 100 1100000 |
| 3137 | 024136 | 004767 | 000016 | | | JSR | PC, TOG | |
| 3138 | | 105767 | 000272 | | | TSTB | RDSW | |
| 3139 | | 100401 | | | | BMI | 10 | |
| 3140 | | 000735 | | | | BR | TTOUT | |
| 3141 | | 005067 | 000262 | | 181 | CLR | RDSW | |
| 3142 | | 000406 | | | | BR | TEX | |
| 3143 | | 105777 | 154412 | | TOGS | TSTB | OTPS | |
| 3144 | | 100375 | | | | BPL | TOG | |
| 3145 | | 116777 | 154422 | 154404 | | MOVB | TOB, OTPB | |
| 3146 | | 000207 | | | TEX: | RTS | PC | |
| 3147 | | | | | | | | |
| 3148 | | | | | | | | |
| 3149 | | | | | | POCTA | L OUTPUT SUBROUT | INE |
| 3150 | | | | | | , | | |
| 3151 | 024176 | 012767 | 000001 | 000226 | OCTPE: | MOV | #1,OFL | |
| 3152 | | 000402 | | -, | | BR | OCTPE1 | |
| 3153 | | 005067 | 009220 | | OCTP | CLR | OFL | CLEAR FLAC FOR LEADING SERA |
| | | | | | | | | |

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|------------------------------|----------------|-----------|-------|---------|
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| 3209 | | | | | | | C.176. | BC.CKANA |
|--------------|------------------|------------------|--------|--------|---------|--|--------------------|--------------------------|
| 3207 3200 | | | | | | | | ROUTINE, CHECKS FOR "G T |
| 3205 | | | | | | | | |
| 3204 | 024432 | 000000 | | | OFLE | | | FIRST CHAR FLAG |
| 3202 | 024426 024430 | 010304 | | | | MOV RTS | R3,R4 PC | |
| 3201 | 024422 | 004767 | 177532 | | | JSR | PC, TOG | |
| 3200 | 024416 | 010467 | 154172 | | | MOA | R4, TOB | |
| 3199 | 024412 | 052704 | 000260 | | OCTPG1: | | 0260,R4 | |
| 3198 | 024406 | 005267 | 000020 | | OCTPGE | The state of the s | OFL | |
| 3197 | 024404 | 000207 | | | | RTS | PC | |
| 3196 | 024402 | 001001 | 000030 | | | BNE | OFL OCTPG0 | |
| 3194 | 024374 024376 | 001004 | 000030 | | | BNE | OCTPGØ | |
| 3193 | 024370 | 042704 | 177770 | | OCTPG: | BIC | 0177770,R4 | |
| 3192 | 024366 | 000207 | | | 00000 | RTS | PC | PEXIT |
| 3191 | 024362 | 004767 | 177572 | | | JSR | PC. TOG | PRINT SPACE |
| 3190 | 024354 | 012767 | 000240 | 154232 | OCTP3: | MOV | #240, TOB | |
| 3109 | 024350 | 884767 | 000014 | | | JSR | PC, OCTPG | PRINT DIGIT 5 |
| 310 | #24346 | 010304 | | | | MOV | R3, R4 | |
| 3187 | 024342 | 004767 | 000022 | | | JSR | PC, OCTPG | |
| 3106 | 024340 | 006004 | | | | ROR | R4 R4 | |
| 3104 | 024334 024336 | 006004 | | | | ROR | R4 | |
| 3103 | 024332 | 010304 | | | | MOA | R3, R4 | |
| 3102 | 024326 | 804767 | 000036 | | | JSR | PC, OCTPG | PRINT DIGIT 4 |
| 3101 | 024324 | 000304 | | | | SWAB | R4 | |
| 3100 | 024322 | 006104 | | | | ROL | R4 | |
| 3179 | 024320 | 006104 | | | | ROL | R4 | |
| 3170 | 024316 | 010304 | 000032 | | | MOV | R3, R4 | Abraul Orott 3 |
| 3176 | 024310 024312 | 999394 994767 | 000052 | | | JER | R4 PC,OCTPG | PRINT DIGIT 3 |
| 3175 | 024306 | 906004 | | | | ROR | R4 | |
| 3174 | 024304 | 010304 | | | | MOA | R3,R4 | |
| 3173 | 024300 | 004767 | 000964 | | | JSR | PC, OCTPG | PRINT DIGIT 2 |
| 3172 | 024276 | 000304 | | | | SWAB | R4 | |
| 3171 | 024274 | 006004 | | | | ROR | R4 | |
| 3170 | 024272 | 006004 | | | | ROR | R4 | POSITION DIGIT |
| 3169 | 024270 | 006004 | | | | ROR | R4 | |
| 3168 | 024266 | 006004 | | | OCTP2: | NOV | R3, R4 R4 | |
| 3166 | 924269 924264 | 004767 | 000104 | | 00000 | JSR | PC.OCTPG | PRINT 0 |
| 3165 | 024256 | 005004 | | | OCTP1: | CLR | R4 | |
| 3164 | 024252 | 000167 | 000006 | | | JMP | OCTP2 | |
| 3163 | 024246 | 884767 | 000116 | | | JSR | PC, OCTPG | PRINT 1 |
| 3162 | 024242 | 812784 | 000001 | | | MOV | 01,R4 | |
| 3161 | 024240 | 001406 | | | | BEQ | OCTP1 | IF NOTE BR |
| 3160 | 024234 | 032704 | 100000 | | OCTPO | BIT | #100000,R4 | ISEE IF MSD = 1 |
| 3159 | 024230 | 800167 | 000120 | | | JMP | PC,OCTPG1 OCTP3 | SPACE AND EXIT |
| 3157 3150 | 024222 024224 | 001004 | 000162 | | | JSR | OCTPO | ; IF 80; BR |
| 3156 | 024216 | 005767 | 000210 | | | 181 | OFL | ISEE IF PRINT ALL O |
| 3155 | 024214 | 001007 | | | | BNE | OCTPO | JIF NOT ZERO: BR |
| 3455 | | | | | | | | |

CHECK SWITCH REGISTER ROUTINE, CHECKS FOR "G TO ALLOW CHANGING FOF LOC. 176.

TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 94 DZTUCE,P11

| 3210 | | | | | | | ONS USED: | |
|------|------------------|--------|--------|--------|--------|----------------|--------------|--|
| 3211 | 024434 | 000000 | | | | TEMPST: | | |
| 3212 | 024436 | 000000 | | | | COUNT: | WORD 0 | |
| 3213 | 024440 | 000000 | | | | RDSW: | .WORD 0 | |
| 3214 | 024442 | 022767 | 000176 | 154120 | CKSWR: | CMP | *SWREG, SWR | SOFTWARE SWITCH REG PRESENT |
| 3215 | 024450 | 001037 | | | | BNE | OUT | INO, GET OUT |
| 3216 | 024452 | 105777 | 154114 | | | TSTB | OTKS | YES, WAIT FOR |
| 3217 | 024456 | 100034 | | | | BPL | OUT | READY, GET CHARACTER |
| 3218 | 024460 | 017767 | 154110 | 154130 | | MOV | OTKB, TIB | ; AND STRIP OFF |
| 3219 | 024466 | 042767 | 177600 | 154122 | | BIC | #177600,TIB | THE GARBAGE |
| 3220 | 024474 | 022767 | 000007 | 154114 | | CMP | e7,TIB | ; IS IT A <°G> |
| 3221 | 024502 | 001022 | | | | BNE | OUT | |
| 3222 | 024504 | 012704 | 035175 | | | MOV | SECNTG, R4 | |
| 3223 | 024510 | 004767 | 177330 | | | JSR | PC, TTOUT | |
| 3224 | 024514 | 012704 | 035201 | | CNTLU: | MOV | SSMSWR, R4 | |
| 3225 | 024520 | 004767 | 177320 | | | JSR | PC, TTOUT | |
| 3226 | 024524 | 017703 | 154040 | | | MOV | eswr, R3 | |
| 3227 | 024530 | 004767 | 177442 | | | JSR | PC, OCTPE | |
| 3228 | 024534 | 012704 | 035210 | | | MOV | SEMNEW, R4 | |
| 3229 | 024540 | 004767 | 177300 | | | JSR | PC, TTOUT | |
| 3230 | 024544 | 004767 | 999992 | | A | JSR | PC. SREAD | IGO READ A LINE |
| 3231 | 024550 | 000207 | | | OUT: | RTS | PC | RETURN TO MAIN BODY OF PROGRAM |
| 3232 | | 205067 | | | | | | |
| 3233 | 024552 | 005067 | 177656 | 177680 | SPEAD: | CLR | TEMPST | |
| 3234 | 024556 | 012767 | 000007 | 177652 | | MOV | 87, COUNT | -CO DEAD A CHARACTER |
| 3235 | 024564 024570 | 004767 | 177202 | 154020 | 18: | JSR | PC, TTIN | GO READ A CHARACTER |
| | 024576 | 122767 | | 154020 | | BIC | \$177600,TIB | STRIP OFF GARBAGE |
| 3237 | 024604 | 001002 | 000025 | 154012 | | CMPB | #25,TIB | IS IT A "U? |
| 3239 | 024606 | 005726 | | | 20. | BNE | 28 | BRANCH IF NOT |
| 3240 | 024610 | 000741 | | | 381 | TST BD CNTI | (SP)+ | POP THE STACK |
| 3241 | 024612 | 122767 | 000015 | 153776 | 281 | BR CNTL | | START OVER |
| 3242 | 024620 | 001013 | 000013 | 193776 | 201 | BNE | #15,TIB | IS IT A <cr>? BRANCH IF NOT</cr> |
| 3243 | 024622 | 212767 | 000200 | 177610 | | MOV | \$200,RDSW | JORANCH IF NOT |
| 3244 | 024630 | 004767 | 177242 | 1,,010 | | JSR | PC, TCRLF | ;ECHO IT WITH <lf></lf> |
| 3245 | 024634 | 022767 | 000007 | 177574 | | CMP | 87, COUNT | WAS IT FIRST CHARACTER |
| 3246 | 024642 | 001037 | 000001 | | | BNE | 78 | CHANGE SWR IF NOT FIRST ONE |
| 3247 | 024644 | 005726 | | | 881 | TST | (SP)+ | POP THE STACK |
| 3248 | 024646 | 000740 | | | ••• | BR | OUT | GET OUT |
| 3249 | 024650 | 122767 | 000060 | 153740 | 481 | CMPB | #60,TIB | 1051 001 |
| 3250 | 024656 | 003004 | 000000 | 203140 | | BGT | 58 | |
| 3251 | 024660 | 122767 | 000067 | 153730 | | CMPB | 867, TIB | |
| 3252 | 024666 | 002005 | 000001 | | | BGE | 68 | |
| 3253 | 024670 | 012704 | 035220 | | 581 | MOV | .SQUEST, R4 | |
| 3254 | 024674 | 004767 | 177144 | | | JSR | PC, TTOUT | |
| 3255 | 024700 | 000742 | | | | BR | 36 | START OVER IF NOT LEGAL CHARACTER |
| 3256 | 024702 | 006367 | 177526 | | 681 | ASL | TEMPST | Joseph Committee of the |
| 3257 | 024706 | 006367 | 177522 | | | ASL | TEMPST | |
| 3258 | 024712 | 006367 | 177516 | | | ASL | TEMPST | |
| 3259 | 024716 | 142767 | 000060 | 153672 | | BICB | #60,TIB | GET NITTY-GRITTY |
| 3260 | 024724 | 156767 | 153666 | 177502 | | BISB | TIB, TEMPST | 140 |
| 3261 | 024732 | 005367 | 177500 | | | DEC | COUNT | ONLY WANT 6 DIGITS |
| 3262 | 024736 | 001754 | | | | BEQ | 58 | 7 |
| 3263 | 024740 | 000711 | | | | BR | 10 | |
| 3264 | 024742 | 016777 | 177466 | 153620 | 781 | MOV | TEMPST, OSWR | CHANGE SWITCH REGISTER CONTENTS |
| 3265 | 024750 | 000735 | | | | BR | 84 | Townson Bussell Margarett Coursell |
| | | | | | - | | | |

TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 95 DZTUCE.P11 3266 3267 DATA CHARACTER OUTPUT SUBROUTINE 3268 3269 024752 005067 153636 DOUT: CLR TOB 3270 024756 812784 000010 MOV 010,R4 SET NUMBER TO PRINT 3271 024762 110367 153626 MOVB R3, TOB 3272 024766 105777 153604 DOUT1: TSTB OTPS 3273 024772 100375 BPL DOUT1 3274 024774 132767 000200 153612 BITB \$200, TOB 3275 025002 801484 BEQ DOUT2 3276 025004 012777 999961 MOV 153566 #061, 0TPB 3277 025012 000403 DOUT3 BR 3278 025014 012777 999969 153556 DOUT2: MOV 9960, 9TPB 3279 025022 306167 153566 DOUT3: ROL TOB 3280 025026 005304 DEC R4 3201 025030 601356 BNE DOUT1 3282 025032 800207 RTS PC 025034 3283 016703 153640 DOUTD: MOV TEMP3, R3 3284 025040 000303 SWAB R3 3285 025042 884767 177784 JSR PC. DOUT 3286 825846 016703 153626 MOV TEMP3, R3 3287 025052 994767 177674 JSR PC, DOUT 3288 025056 888287 RTS PC 3289 3290 TU16 SERIAL NUMBER PRINT SUBROUTINE 3291 3292 025060 010304 SNPT: MOV R3. R4 3293 025062 000304 SWAB R4 3294 025064 006004 ROR R4 3295 025066 006004 ROR R4 3296 025070 006004 ROR R4 3297 025072 006004 ROR R4 GET FIRST DIGIT 3298 025074 004767 000036 JSR PC. SNPG PRINT 3299 025100 010304 MOV R3, R4 3300 025102 000304 SWAB R4 GET SECOND DIGIT 3301 025104 994767 JSR PC. SNPG PRINT 3302 025110 010304 MOV R3. R4 3303 025112 006004 ROR R4 3304 025114 006004 ROR R4

ROR

ROR

JSR

MOV

JSR

RTS

VOM

BIC

BIS

JSR

RTS

HALT

JSR

RTS

STOP:

R4

PC, SNPG

PC, SNPG

\$260, TOB

R4, TOB

PC, TOG

HALT HANDLENGOODOO

PC, CKSWR

PC

PC

\$177760.R4

R3, R4

PRINT THIRD DIGIT

PRINT FOURTH DIGIT

CHECK FOR CONTROL G

; SET BASE . 0

MASK DIGIT

ISET ASCII

RETURN

TYPE DIGIT

PEXIT

3305

3306

3307

3308

3309

3310

3311

3312

3313

3314

3315

3316

3318

3320

3321

025116

025120

025122

025126

025130

025134

025136

025144

025150

025154

025160

025162

025164

025170

006004

006004

004767

010304

004767

900207

012767

042704

050467

004767

000207

000000

884767

000207

000010

000002

000260

177760

153440

177000

177252

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| 3324 025172 022445 046525 035055 035 | | | | | | | MESSAG | E TABLE |
|--|-----|--------|--------|--------|--------|--------|---------|--|
| 3326 025206 047563 052116 047522 3327 025214 025116 047523 052123 3327 025212 02406 051506 052306 3328 025220 02406 051506 052306 3329 025220 02406 047117 026123 3331 025220 04406 047117 044506 3331 025220 04406 02700 044506 3331 025220 04406 02700 044506 3331 025220 04406 02700 044506 3331 025220 04406 02700 044506 3331 025220 04406 02700 044506 3331 025220 04406 02700 044506 3331 025220 04406 02700 044506 3331 025220 04406 04502 04502 04502 3331 025230 04606 04502 04602 04602 3340 025312 04600 04602 04602 04602 3340 025313 04600 04602 04602 04602 3340 025314 025316 02504 04602 04602 3340 025316 02504 04602 04602 04602 3340 025316 02504 04602 04602 04602 3340 025316 02504 04602 04602 04602 04602 3340 025316 02504 04602 04 | 332 | 025172 | | | | MSG1: | .ASCII | /%%TM02-TU16 CONTROL LOGIC TEST (DETUC-E)*/ |
| 3327 035214 02514 047514 04551 04552 04522 04522 04522 055105 04523 04525 04523 04525 0452 | | | | | | | | |
| 3320 025222 02103 022405 055140 05514 | | | | | | | | |
| 3329 025230 024040 05516 04552 02455 | | | | | | | | |
| 3313 025243 109 065216 05116 051165 ,ASCII /EMTER COMDITIONS IN OCTALGO/ 3313 025250 044524 047117 020123 3313 025250 044524 047117 020123 3313 025272 046181 027445 04522 042525 3313 025272 046181 027445 04522 042526 3313 025272 046181 021445 3313 025276 042045 046522 042526 04522 042526 3313 025272 046181 021445 3314 025231 047045 046522 042526 3314 025231 047045 046522 042526 3314 025231 040446 04612 04252 3314 025231 040446 04612 04252 3314 025234 03524 047045 04522 042526 3314 025234 02524 04622 04622 042526 3314 02524 02624 04622 | | | | | | | | |
| 3332 02325 04440 047117 04450 43111 20123 3334 02324 047111 021423 3334 02324 047111 021425 3334 02327 046101 021445 3335 02327 046101 021445 3336 02327 046101 021445 3336 02327 046101 021445 3336 02327 046101 021445 3336 02327 046101 021445 3336 02328 042640 046522 04252 3336 023312 02312 04000 046525 042320 3336 023312 02312 04000 04622 04232 3340 023312 02344 023524 04202 04232 04232 3340 02334 023524 04032 04232 04232 3340 02334 023524 04032 04232 04232 3340 02334 02032 04040 04522 04232 3340 02334 02032 04040 04522 04232 3340 02336 02002 040432 04232 3340 02337 026122 04040 04522 04236 3340 02337 026122 04040 04522 04236 3340 02337 026122 04040 04522 04236 3350 02340 04740 046124 05103 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 05109 3350 02340 04740 046124 04610 04610 04610 3350 02340 04610 04610 04610 04610 04610 3350 02340 0461 | | 025236 | | | 043 | | | |
| 3333 023256 044524 047117 027042 082123 3334 023272 046101 1 047040 046525 3335 023272 046101 027040 046525 3335 023272 046101 027040 046525 3335 023312 023312 047040 046525 042502 3336 023312 023312 047040 046525 042502 3340 023312 046101 047040 046525 042502 3340 023310 04640 047040 047040 047040 047040 3340 023310 04640 047040 047040 047040 3340 023310 04640 047040 047040 047040 3340 023310 047040 047040 047040 047040 3340 023310 047040 047040 047040 047040 3340 023340 023340 047040 047040 047040 3340 023340 047040 047040 046525 047040 3340 023340 047040 046525 047040 046525 047040 3340 023376 047040 047040 046525 047040 3340 023376 047040 046525 047040 3340 023376 047040 047040 046525 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 3350 023404 047040 047040 047040 047040 047040 3350 023404 047040 0 | | | | | | | .ASCII | /ENTER CONDITIONS IN OCTALSS/ |
| 3334 02324 04711 047440 24822 MSG2: ASCII /ADRIVE NUMBER 0/ 3336 02327 046101 021445 3336 02327 046101 021445 3336 02327 046101 021445 3337 023314 047040 046523 042502 3338 023312 02312 040304 046523 042502 3338 023312 02312 040040 041040 04202 3340 023320 040040 041040 040020 3340 023320 040040 041040 040020 3340 023320 040040 041040 040020 3340 023340 023040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040020 3340 023340 020040 040020 040040 3340 023340 040040 040040 040040 3340 023340 040040 040040 040040 3350 020400 040020 040020 0400040 3350 020400 040020 040020 040040 3350 020400 040020 040020 040040 3350 020400 040020 040020 040040 3350 020400 040020 040020 040040 3350 020400 040020 040020 040040 3350 020400 040020 0400040 3350 020400 040020 0400040 3350 020400 040020 0400040040 3350 020400 040020 0400040040 3350 020400 040020 04000400400400400400400400400400400400 | | | | | | | | |
| 3335 025276 840181 021445 3336 025276 840245 844522 042526 3337 025304 047040 046525 042522 3337 025315 045 044625 042522 3339 025315 045 044625 042522 3431 025310 040440 042104 042104 3314 025310 040440 042104 042104 3314 025310 035324 035324 3343 025344 035324 3343 025344 035324 3343 025344 035324 3344 025346 02632 042524 3350 025376 026122 040440 042124 3350 025376 026122 040440 042124 3350 025376 026122 040440 042124 3350 025404 047045 04124 04104 04114 3350 025440 047045 04124 04104 04114 3350 025440 047045 04124 04104 04114 3350 025440 047045 04124 04104 04104 3350 025440 047045 04124 04104 04104 3350 025440 047045 04104 04104 04104 3350 025440 047045 04104 04104 04104 3350 025440 047045 04104 04104 04104 3350 025440 047045 04104 04104 04104 3350 025440 04104 04104 04104 04104 3350 025440 047045 047045 04104 04104 3350 025440 04502 042524 042510 3350 025440 04502 042524 042510 3350 025440 04502 042524 042510 3350 025440 04502 042524 042510 3350 025440 04502 042524 042510 3350 025440 04502 042524 042510 3350 025540 04502 042524 04250 042040 3350 025540 04504 04504 04104 | | | | | | | | |
| 3336 025276 042040 046522 042526 3337 025310 047040 046522 042526 3338 025315 045 043040 046522 042526 3340 025315 045 043040 046522 042526 3340 025323 042040 046522 042526 3340 025330 0464040 042522 042526 3340 025330 0464040 042522 042526 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055524 3340 025340 055420 044522 042526 3340 025340 055420 044522 042526 3340 025340 054540 046522 042526 3340 025340 055440 046522 042526 3340 025340 055440 046522 042526 3350 025422 045340 055415 045620 042521 3350 025422 045340 055415 045620 042521 3350 025420 046540 046522 042526 045140 0451405 3350 025440 056404 046520 042520 042526 3350 025440 056404 046520 042520 042526 3350 025440 056404 046520 042520 042526 3350 025440 056404 046520 042520 042526 3350 025440 056404 045404 046124 0451405 3350 025440 056404 045404 046124 0451405 3350 025440 056404 045404 046124 0451405 3350 025440 056404 04522 042520 042520 3350 025440 056404 04522 042520 042520 3350 025440 056404 04522 042520 042520 3350 025440 056404 04522 042520 042520 3350 025440 056404 04522 042520 042520 3350 025540 042524 045240 045240 0451405 3350 025540 042524 045404 0551005 3360 025550 045516 025640 042524 055100 3360 025550 045516 025640 042524 055100 3360 025550 045516 025640 045240 045105 3360 025550 045516 025640 045240 045105 3360 025550 045516 025640 045240 045105 3370 025540 04252 045105 045105 045105 3370 025540 042540 045240 045105 045105 3370 025540 042540 045420 055105 3370 025540 042540 045540 045105 025106 3370 025540 042540 04540 045105 | | | | | 032103 | | | |
| 3337 025304 047940 04523 043045 3330 025312 02122 04240 04522 04232 3340 025312 02132 042440 04522 04232 3340 025314 025320 042440 04522 043325 3340 025344 035524 3340 025344 035524 3340 025344 026240 045252 042326 3341 025340 026240 045252 042326 3342 025344 026240 045252 042326 3343 025344 02622 046240 045252 042326 3344 025362 042440 045254 046325 042382 3344 025362 042440 04524 046144 3340 025464 047440 046324 04634 05631 3350 025440 047440 046344 05634 05634 05634 3350 025440 04542 044324 05634 | | | | | 842526 | MSG2: | ASCII | ADRIVE NUMBER 4/ |
| 3338 025315 026122 042040 044522 042326 3340 025325 042040 044522 042326 3341 025330 040404 042104 042322 3342 025330 040404 042104 042322 3342 025330 040404 042104 042322 3343 025340 035324 33524 035324 3343 025340 035324 3343 025340 035324 3343 025340 035324 3344 025340 026045 047105 052120 3346 025350 042040 044522 042326 3346 025370 047940 044525 042326 3340 025370 047940 044525 042326 3340 025370 047940 044525 042326 3340 025370 047940 044525 042326 3340 025370 047940 044525 042326 3340 025370 047940 044524 051105 3350 025440 047440 044124 051105 3350 025440 047945 042111 041040 020105 3350 025440 047945 042111 041040 020105 3350 025440 047945 047117 042455 045105 3350 025440 047945 047117 042455 045105 3350 025440 047945 047117 042455 045105 3350 025440 047945 047117 042455 045105 3350 025440 047945 045104 045104 052105 3350 025440 047945 045104 045104 052105 3350 025440 047945 045104 045104 045104 3350 025440 045104 052103 042040 3350 025440 045104 052103 042040 3350 025440 045104 052103 042040 3350 025450 045104 052103 042040 3350 025450 045104 052103 042040 3350 025500 045104 052103 042040 3360 025500 045104 052103 042040 3360 025500 045104 052103 042040 3360 025500 045104 052104 045104 052105 3360 025500 045104 052104 045104 052104 3360 025500 045104 052104 045104 052104 3370 025500 045104 052104 045104 3370 025500 045104 052104 045104 3370 025500 045104 052104 045104 3370 025500 045104 052104 045104 3370 025500 045104 052104 054104 3370 025500 045104 052104 054104 3370 025500 045104 052104 054104 3370 025500 045104 052104 054104 3370 025500 045104 052104 054104 3370 025500 045104 052104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 054104 054104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 045104 054104 3370 025500 045104 045104 054104 054104 3370 025500 045104 04 | | | | | | | | |
| 3340 025336 04404 04210 043525 2336 04404 042104 042525 2336 05153 051540 051524 051505 3343 025346 051524 051505 3343 025346 025346 025346 025346 025346 025346 025346 025346 025346 025346 025354 026322 044052 04522 044052 04522 044052 04522 044052 04525 042506 3340 025376 047040 046525 042502 3340 025376 047040 046525 042502 3340 025376 047040 046525 042502 3340 025376 047040 04652 042502 3350 025440 04704 044124 051105 3350 025440 04704 044124 051105 3350 025440 04704 044124 051105 3350 025440 04704 044124 0491105 3350 025440 04704 044124 049105 3351 04940 044124 04940 040105 3351 04940 044124 04940 040105 3351 04940 044124 04940 040105 3351 04940 044124 04940 040105 3351 04940 044524 04940 040105 3351 04940 044524 04940 040105 3351 04940 044524 04940 040105 3351 04940 044524 04940 049 | | | | | | | | |
| 3341 025336 95324 051521 95240 651595 3343 025346 92536 952520 952304 947195 942524 3343 025346 92536 92045 947195 942524 3345 025356 92045 947195 942526 3346 925356 92045 947195 942526 3347 025370 047049 945525 942592 3340 025370 047049 945525 942592 3340 025370 047049 945525 942592 3340 025370 047049 945525 942592 3340 025370 047049 945525 942592 3340 025370 047049 04124 051185 3350 025402 04711 041040 025117 3351 025402 04211 041040 0261185 3350 025402 047151 040524 052118 3350 025440 047045 047117 042455 3356 025542 04539 052123 0421040 3358 025440 047045 047117 042455 3356 0255440 047045 047117 042455 3356 025540 04522 042520 021400 3358 025440 04522 042520 021400 3358 025440 04522 042520 021400 3360 025550 047150 02010 042504 3360 025550 047150 052120 042504 3360 025550 047150 052120 047055 3360 025550 047151 052120 047055 3360 025550 047151 020124 054105 3360 025550 047151 052120 047055 3360 025550 047151 020124 054105 3360 025550 047151 020124 054105 3360 025550 047151 020124 054105 3360 025550 047151 020124 054105 3360 025550 047151 020124 054105 3377 025561 045 04512 051104 051104 3377 025561 045 04512 051104 051105 3377 025560 042124 054105 3377 025560 042124 054105 3377 025560 042124 054105 3377 025560 042124 054105 3377 025560 042124 054105 3377 025560 042124 054105 3377 025560 042124 054105 3377 025560 042121 045104 051105 3377 025560 042124 051105 3377 025560 042124 051104 051104 3377 025560 042124 051105 3377 025560 042124 051105 3377 025560 042124 051105 3377 025560 042124 051105 3377 025560 042124 051105 3377 025560 042121 045104 051104 3377 025560 042124 051105 3377 025560 042121 045104 051105 3377 025560 042121 045104 051104 3377 025560 042121 045104 051104 3377 025560 042121 045104 051104 3377 025560 042121 045104 051104 3377 025560 042121 045104 051104 3377 025560 042124 045105 3377 025560 042124 045105 3377 025560 042124 045105 3377 025560 042124 045105 3377 025560 042124 045105 3377 025560 042124 045105 3377 025560 042120 042124 045105 3377 025560 042120 042145 3377 025560 042120 042145 | | | | | | MSG2A: | .ASCII | /%%FOR DRIVE ADDRESS TEST:/ |
| 3342 025346 05524 3344 025346 020045 047105 042224 3346 025354 020045 047105 042224 3346 025354 020045 04522 042526 3347 025370 047040 04452 04252 3348 025376 026122 040440 046114 3359 025404 047140 044124 051105 3359 025412 02124 040440 046114 3359 025404 047140 044124 051105 3350 025412 02124 040440 020105 3351 025400 04715 026514 045140 020105 3351 025400 04717 04054 3351 025400 04717 04054 3351 025400 04717 04054 3351 025400 04522 042526 3351 025400 04522 042526 3351 025400 04522 042526 3351 025400 04522 042526 3351 025400 04522 042526 3350 025400 04522 042526 3350 025400 04522 042526 3350 025400 04522 042526 3350 025500 04522 042526 3360 025500 04522 042526 3360 025500 04522 040526 3360 025500 05110 04052 3360 025500 05110 04052 3360 025500 05110 04052 3360 025500 05120 3360 025500 05120 3360 025500 05150 3377 025501 347 025501 347 025501 348 02500 052500 347 025501 348 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 347 02500 052500 348 02500 052500 | | | | | | | | |
| 3343 925344 935524 3345 925345 920925 954195 952129 3346 925352 942196 944522 942526 3347 925376 947949 944522 942526 3349 925376 967194 944522 942526 3349 925376 967194 94452 942526 3349 925376 967194 94452 942526 3359 925412 92123 944124 955195 3350 925412 92123 942116 94194 945114 3350 92542 92136 947516 925216 92516 3353 925446 947945 94717 942455 NSG91 3358 925446 947945 952123 942549 3358 925446 94795 952123 942549 3358 925446 94795 952123 942549 3359 925474 96252 92213 942219 3369 925592 921449 3360 925592 921449 3360 925592 921449 3361 925594 942126 921449 3362 925512 942596 942126 92149 3363 925594 942186 94795 952129 3364 925594 942186 952129 3369 925596 94716 952129 947955 NSG91 ASCII /\$TM92 DETECTED 8/ 3369 925598 942196 921449 3360 925598 942196 921449 3360 925598 942126 921449 3360 925598 942126 921449 3360 925598 942126 921449 3360 925598 942126 921449 3360 925598 942126 921449 3360 925598 942126 921449 3360 925598 942126 921449 3360 925598 942126 94195 3377 925648 942126 94195 3377 925648 942198 921448 94195 3377 925648 942198 921448 94191 941915 3377 925648 942126 94191 941915 3377 925648 942126 94191 941915 3377 925648 942126 942126 94191 941915 3377 925648 942126 942128 942524 942524 94318 | | | | | | | | |
| 3344 025346 026122 04105 042526 32120 3346 025357 025120 045625 025120 045625 025120 045625 042526 3347 025370 047040 046525 042592 3340 025370 047040 046525 042592 3340 025370 047040 046525 042592 3340 025370 047040 046525 042592 3340 0253412 026123 046123 052517 3351 025412 026123 046123 052517 3351 025412 026123 046123 052517 3351 025426 047516 026156 054105 3353 025426 047515 040524 04124 041040 026105 3353 025426 047516 026156 054105 3353 025426 047515 040524 04117 042455 040524 04117 042455 040524 04117 042455 04117 042455 04117 042455 04117 042456 04117 042456 04117 042456 04117 042456 04117 042456 04117 042456 04117 042454 04104 041 | | | | 932949 | 051505 | | | |
| 3345 | | | | 947195 | 842524 | | ASCIT | /S ENTED EVET DELVE NUMBER. ALL OTHERS SHOULD BE NON-EXISTANT.S. |
| 3346 #23362 942040 944522 04256 3347 #25370 947409 94652 94256 3348 #25370 947409 94652 94256 3349 #25370 947409 94412 955105 3350 #25402 942112 94412 955105 3351 #252402 942112 944121 95217 3351 #252402 942113 944121 95217 3351 #252402 942114 941940 #25185 3353 #252402 942145 #25213 94254 3355 #252402 942145 #25213 94254 3355 #252402 94530 95213 942940 3358 #252402 94530 95213 942940 3358 #252402 94530 94212 942940 #3661 | | | | | | | ****** | A CHICK CALL DESTO MONDON'S WAS OTHERD SHOULD BE MON-PASSIVATION |
| 3347 @25376 @47040 @4452 | | | | | | | | |
| 3349 | | | | | | | | |
| 3356 025412 020123 044124 020185 3351 025426 047516 026516 054105 3353 025434 051511 040524 052116 3354 025442 021456 3355 025444 047045 047117 04245 3356 025452 04530 052121 042040 3357 025460 044522 042526 021440 3358 023466 051045 028110 042904 3359 025474 042524 032013 3360 025502 021440 3360 025502 021440 3361 025504 04522 042526 030115 020662 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 MSGG: "ASCII /ATM02 DETECTED 0/ 3365 025512 042504 042524 052103 3366 025550 047056 052120 047055 MSGG: "ASCII /EXPT-NOT RECVD0/ 3366 025550 047516 020124 054105 3366 025550 047516 020124 054105 3367 025543 122 053103 026504 MSG7: "ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 025550 052127 053104 041505 3369 025550 052127 053104 054105 3369 025550 052120 043 3369 025550 052120 043 3369 025550 052120 043 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3369 025550 052127 053104 054105 3370 025560 046123 053104 052105 3371 025660 046123 053104 052105 3373 025610 04210 053104 052105 3374 025600 046123 053104 052105 | | | | | | | | |
| 3351 025420 042114 041040 020105 3352 025424 051511 040524 052116 3354 025442 021456 3355 025444 047045 047117 042455 NSG3: .ASCII /\(\delta\)NON-EXIST DRIVE 0/ 3356 025452 044530 052123 042040 3357 025460 044522 042526 021440 3359 025466 051045 020110 042504 NSG4: .ASCII /\(\delta\)RG DETECTED 0/ 3359 025474 042524 052103 042105 3360 025540 052045 030115 020062 MSG5: .ASCII /\(\delta\)RG DETECTED 0/ 3361 025504 052045 030115 020062 MSG5: .ASCII /\(\delta\)RG DETECTED 0/ 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 MSG6: .ASCII /\(\delta\)RG PETECTED 0/ 3366 025540 042126 043 3367 025543 122 053103 026504 MSG7: .ASCII /\(\delta\)RCVD-NOT EXPT0/ 3369 025556 052120 043 3370 025566 046123 053101 MSG8: .ASCII /\(\delta\)RCVD-NOT EXPT0/ 3371 025566 020145 052140 043115 3372 025574 051105 021440 3373 025606 046123 053101 020105 3376 025606 046123 053101 020105 3377 025606 046123 053101 020105 3378 025606 046123 053101 020105 3379 025606 046123 053101 020105 3370 025614 042101 051104 051005 3371 025606 046123 053101 020105 3372 025614 042101 051104 051005 3373 025606 046123 053101 020105 3374 025606 046123 053101 020105 3376 025606 046123 053101 020105 3377 025614 042101 051104 051005 | | | | | | | | |
| 3352 025426 047516 026516 05116 3353 02542 05115 3363 025442 05116 3354 025442 047654 04717 042455 MSG3: .ASCII /ANON-EXIST DRIVE 0/ 3356 025444 047645 044520 042526 021440 3357 025466 051045 020119 042546 3359 025474 042524 052109 342105 3360 025562 021440 3361 025504 042524 052103 042105 3361 025504 042524 052103 042526 051045 021440 3361 025504 042524 052103 042504 052615 021440 3363 025520 042105 021440 3363 025520 042105 021440 3363 025520 042105 021440 3364 025524 052103 042524 052103 042524 052103 042524 052103 042524 052103 042524 052103 042524 052103 042524 052103 042524 052103 042524 052103 042524 042524 052103 042524 052103 042524 042 | | | | | | | | |
| 3353 | | | | | | | | |
| 3354 025442 021456 3355 025444 047045 047117 042455 MSG3: .ASCII /\(\delta\)NON-EXIST DRIVE 0/ 3356 025452 044530 052123 042040 3357 025460 045122 042526 021440 3359 025466 051945 0220110 042594 MSG4: .ASCII /\delta\)RH DETECTED 0/ 3360 025562 021440 3360 025562 021440 3360 025562 021440 3361 025594 052045 030115 020062 MSG5: .ASCII /\delta\)RHO2 DETECTED 0/ 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 042105 021440 3365 025540 042126 043 3366 025540 042126 043 3367 025550 047516 020124 054105 3368 025550 052120 043 3370 025556 026105 052120 043 3371 025566 026105 052160 041115 3372 025574 051105 021440 3373 025560 042126 04101 051104 051505 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025602 042101 051104 051505 3376 025602 042101 051104 051505 3376 025602 042101 051104 051505 3376 025602 042101 051104 051505 3376 025602 042101 051104 051505 3376 025602 042101 051104 051505 3376 025602 020123 042224 052123 | | | | | | | | |
| 3356 025452 044530 052123 042040 3357 025466 044522 04226 021440 3358 025466 051945 020110 042504 MSG4: .ASCII /\text{RRH DETECTED 0}/ 3359 025474 042524 052103 042105 3360 025502 021440 3361 025504 052045 030115 020062 MSG5: .ASCII /\text{ | | | | | | | | |
| 3357 025466 051045 020110 042504 MSG4: ASCII /\text{ARH DETECTED 0}/ 3359 025466 051045 020110 042504 MSG4: ASCII /\text{ARH DETECTED 0}/ 3359 025464 042524 052103 042105 3360 025502 021440 3361 025504 052045 030115 020062 MSG5: ASCII /\text{ARH DETECTED 0}/ 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 MSG6: ASCII /EXPT-NOT RECVD0/ 3365 025532 052117 051040 041505 3366 025540 042126 041 3367 025543 122 053103 026504 MSG7: ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 025556 052120 043 3370 025566 046123 053101 MSG8: ASCII /RSGN: ASCII /\text{RSGN: | | | | | 042455 | MSG3: | .ASCII | /ANON-EXIST DRIVE 0/ |
| 3358 025464 051045 052010 042504 M8G4: ,ASCII /RH DETECTED 0/ 3359 025547 042524 052103 042105 3361 025502 021440 3361 025504 052045 030115 020062 M8G5: ,ASCII /RTM02 DETECTED 0/ 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 M8G6: ,ASCII /EXPT-NOT RECVD0/ 3365 025540 04216 043 3366 025540 04216 043 3367 025540 04216 043 3369 025550 047516 020124 054105 3369 025550 047516 020124 054105 3370 025561 045 046123 053101 M8G0: ,ASCII /RCVD-NOT EXPT0/ 3371 02566 046123 053101 MSG0: ,ASCII /RSLAVE NUMBER 0/ 3373 025600 022445 047506 020122 M8G0A: ,ASCII /RSLAVE NUMBER 0/ 3374 025600 04245 047506 020122 M8G0A: ,ASCII /RRFOR SLAVE ADDRESS TEST;/ 3375 025644 042101 051104 051505 3375 025642 042123 042524 055213 | | | | | | | | |
| 3359 025502 021440 3361 025504 052045 030115 020062 NSGS: ,ASCII /%TM02 DETECTED 0/ 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 MSG6: ,ASCII /EXPT-NOT RECVD0/ 3365 025520 052117 051040 041505 3366 025540 042126 043 3367 025543 122 053103 026504 M8G7: ,ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 025556 052120 043 3370 025561 045 046123 053101 MSG8: ,ASCII /%SLAVE NUMBER 0/ 3371 025566 022445 047506 020124 054105 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A: ,ASCII /%%FOR SLAVE ADDRESS TEST;/ 3376 025622 020123 042524 055105 3376 025622 020123 042524 055105 | | | 044522 | 942526 | | Mec. | | AND DESCRIPTION AND |
| 3360 025502 021440 3361 025504 052045 030115 020062 MSGS: .ASCII /\text{ | | | | | | M9641 | . ASCII | YERN DETECTED BY |
| 3361 025504 052045 030115 020662 MSGS; .ASCII /%TM02 DETECTED 0/ 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 MSG6; .ASCII /EXPT-NOT RECVD0/ 3365 025532 052117 051040 041505 3366 025540 042126 043 3367 025543 122 053103 026504 MSG7; .ASCII /RCVD-NOT EXPT0/ 3369 025556 052120 043 3370 025561 045 046123 053101 MSG8; .ASCII /%SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG0A; .ASCII /%\$FOR SLAVE ADDRESS TEST;/ 3376 025622 020123 042524 052123 | | | | 832163 | 845183 | | | |
| 3362 025512 042504 042524 052103 3363 025520 042105 021440 3364 025524 054105 052120 047055 MSG6: ,ASCII /EXPT-NOT RECVD0/ 3365 025532 052117 051040 041505 3366 025540 042126 043 3367 025543 122 053103 026504 M8G7: ,ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 025550 052120 043 3370 025561 045 046123 053101 MSG8: ,ASCII /&SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025606 046123 053101 020105 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | 030115 | 020062 | MSG5: | .ASCII | /STM02 DETECTED 0/ |
| 3364 025524 054105 052120 047055 MSG6: .ASCII /EXPT-NOT RECVD0/ 3365 025532 052117 051040 041505 3366 025540 042126 043 3367 025543 122 053103 026504 MSG7: .ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 02555 052120 043 3370 025561 045 046123 053101 MSG8: .ASCII /&SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A: .ASCII /&FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | | | | |
| 3365 025532 052117 051040 041505 3366 025540 042126 043 3367 025543 122 053103 026504 M8G7: .ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 025556 052120 043 3370 025561 045 046123 053101 MSG8: .ASCII /&SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A: .ASCII /&FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 028622 020123 042524 052123 | | | | | | | | |
| 3366 025540 042126 043 3367 025543 122 053103 026504 M8G7: ,ASCII /RCVD-NOT EXPT0/ 3368 025550 047516 020124 054105 3369 025556 052120 043 3370 025561 045 046123 053101 M8G8: ,ASCII /&SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 M8G8A: ,ASCII /&FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | | MSG6: | .ASCII | /EXPT-NOT RECVD#/ |
| 3367 025543 122 053103 026504 MsG7: ,ASCII /RCVD-NOT EXPT0/ 3360 025550 047516 020124 054105 3369 025556 052120 043 3370 025561 045 046123 053101 MsG8: ,ASCII /&SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MsG8A: ,ASCII /&FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 028622 020123 042524 052123 | | | | | 041505 | | | |
| 3368 025550 047516 020124 054105 3369 025556 052120 043 3370 025561 045 046123 053101 MSG8; .ASCII /48LAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A; .ASCII /48FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | 026504 | MEGT. | ASCIT | ADCUD-NAT EXPERA |
| 3369 025556 052120 043 3370 025561 045 046123 053101 MSG8; ,ASCII /&SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A; ,ASCII /&FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | | mourt | | ACTO-NOT BYLLEY |
| 3370 025561 045 046123 053101 MSG8: ,ASCII /\SLAVE NUMBER 0/ 3371 025566 020105 052516 041115 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A: ,ASCII /\SFOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | | | | |
| 3372 025574 051105 021440 3373 025600 022445 047506 020122 MSG8A: ASCII /%%FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | 053101 | MSG8: | .ASCII | /ASLAVE NUMBER 0/ |
| 3373 025600 022445 047506 020122 MSG8A: .ASCII /%%FOR SLAVE ADDRESS TEST;/ 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | 337 | 025566 | | 052516 | | | | 아들이 얼마나 얼마나 나는 아니는 그들은 아내는 아내는 아내는 아내는 아내는 아내는 아내는 것이다. |
| 3374 025606 046123 053101 020105 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | | | | |
| 3375 025614 042101 051104 051505 3376 025622 020123 042524 052123 | | | | | | MSGBAI | .ASCII | /SEFOR SLAVE ADDRESS TEST:/ |
| 3376 025622 020123 042524 052123 | | | | | | | | |
| | | | | | | | | |
| | | | | - | | | | |

647567 641646 MSG22: ARCII /RGO BIT-NOT SET A/

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TM82/TU16 CONTROL LOGIC TEST

TM82/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 99 DZTUCE, P11 .ASCII /RESELECT AND PRESS CONTINUES / MSG44: ASCII / REGISTER START: 0/ MSG45: ASCII / EVECTOR ADDRESS: 0/ 027034 020122 MSG46: .ASCII /9CS1 WC BA FC C82 D8 A8/ 027106 031123 027114 051504 027122 042440 .ASCII / TC80/ .ASCII /QNOT RESET BY DRIVE CLEARS/ 051040 M8G47: 040510 MSG50: .ASCII /SALPHA NOT SETO/ MSG51: .ASCII /QUNEXPECTED ERROR BITS#/ 027246 841040 027254 047045 MSG52: .ASCII /ENRZ ONLY: 0/ MSG53: ,ASCII /BAD LRC 0/ 041440 M8G54: .ASCII /&BAD CK #/ 052524 MSG55: ASCII /&SETUP ERROR: CHECK WRAP @ WITH TEST 500/ MSG56: .ASCII /ASTATIC TESTS ONLY: 0/

3546 027404 035131 021440

TM02/TU16 CONTROL LOGIC TEST NACY11 27(732) 18-MAR-76 13:16 PAGE 101 DZTUCE,P11

| 3547 | | | | | | TEST I | HEADER | ***** | | | | | |
|--------------|------------------|------------------|------------------|------------------|---------|---------|------------|-------|-------|----------|-----------|-------------|---------|
| 3548 | | | | | | | | | | | | | |
| 3549 | 027410 | 022445 | 047514 | 044507 | MSLT1: | . ASCII | /88LOGIC | TEST | 11 DI | RIVE A | DDRESSING | G (M8989 RI | 1)0/ |
| 3550 | 027416 | 020103 | 942524 | 052123 | | | | | | | | | |
| 3551 | 027424 | 030440 | 020072 | 051104 | | | | | | | | | |
| 3552 | 027432 | 053111 | 020105 | 042101 | | | | | | | | | |
| 3553 | 027440 | 051104 | 051505 | 044523 | | | | | | | | | |
| 3554 | 027446 | 043516 | 024040 | 034115 | | | | | | | | | |
| 3555 | 027454 | 030071 | 020071 | 044122 | | | | | | | | | |
| 3556 | 027462 | 021451 | | | | | | | | | | | |
| 3557 | 027464 | 022445 | 647514 | 944597 | HSLT21 | . ABCII | \##FOGIC | TEST | 21 R | EGISTE | R ADDRES | SING (M8909 | RH) 0/ |
| 3558 3559 | 027472 | 020103 | 042524 | 052123 | | | | | | | | | |
| 3560 | 027500 027506 | 031040 044507 | 020072 052123 | 042522 | | | | | | | | | |
| 3561 | 027514 | 040440 | 042104 | 051105 042522 | | | | | | | | | |
| 3562 | 027522 | 051523 | 047111 | 020107 | | | | | | | | | |
| 3563 | 027530 | 046450 | 034470 | 034460 | | | | | | | | | |
| 3564 | 027536 | 051040 | 024510 | 043 | | | | | | | | | |
| 3565 | 027543 | 045 | 046045 | 043517 | MSLT3: | -ASCIT | /BBLOGIC | TEST | 31 0 | ONTROL | | T (RH H8905 | H894014 |
| 3566 | 027550 | 041511 | 052040 | 051505 | | | ,,,,,,,,,, | | | on ! Was | | I (Mu masas | ,, |
| 3567 | 027556 | 020124 | 035063 | 041440 | | | | | | | | | |
| 3568 | 027564 | 047117 | 051124 | 046117 | | | | | | | | | |
| 3569 | 027572 | 041040 | 051525 | 052040 | | | | | | | | | |
| 3570 | 027600 | 051505 | 020124 | 051050 | | | | | | | | | |
| 3571 | 027606 | 020110 | 034115 | 030071 | | | | | | | | | |
| 3572 | 027614 | 020065 | 034115 | 030071 | | | | | | | | | |
| 3573 | 027622 | 024471 | 043 | | | | | | | | | | |
| 3574 | 027625 | 045 | 046045 | 043517 | MSLT4: | . ASCII | /88LOGIC | TEST | 41 81 | LAVE A | DDRESSING | G (M8985 M8 | 903)0/ |
| 3575 | 027632 | 841511 | 052040 | 051505 | | | | | | | | | |
| 3576 | 927649 | 020124 | 035064 | 051440 | | | | | | | | | |
| 3577 | 927646 | 040514 | 042526 | 040440 | | | | | | | | | |
| 3578 | 027654 | 842184 | 042522 | 051523 | | | | | | | | | |
| 3579 | 027662 | 047111 | 020107 | 046450 | | | | | | | | | |
| 3500 | 027670 | 034470 | 032460 | 046440 | | | | | | | | | |
| 3581 | 027676 027704 | 034470 022445 | 031460 | 021451 | He- 94. | | /8810505 | | | | | | |
| 3583 | 027712 | 020103 | 042524 | 044507 | MOPISE | .wecli | \##FOCIC | 1631 | 31 MI | K BII | IFRI (MA | 905)0/ | |
| 3584 | 027720 | 032440 | 020072 | 052123 051115 | | | | | | | | | |
| 3585 | 027726 | 041040 | 052111 | 052040 | | | | | | | | | |
| 3586 | 027734 | 051505 | 020124 | 046450 | | | | | | | | | |
| 3587 | 027742 | 034470 | 032460 | 021451 | | | | | | | | | |
| 3588 | 027750 | 022445 | 047514 | 044507 | MSLT6: | .ASCII | /SSLOGIC | TEST | 61 70 | | TEST (MRS | 96510/ | |
| 3589 | 027756 | 020103 | 042524 | 052123 | | | | | | | (110) | | |
| 3590 | 027764 | 033040 | 020072 | 041524 | | | | | | | | | |
| 3591 | 027772 | 041040 | 052111 | 052040 | | | | | | | | | |
| 3592 | 030000 | 051505 | 020124 | 046450 | | | | | | | | | |
| 3593 | 030006 | 034470 | 032460 | 021451 | | | | | | | | | |
| 3594 | 030014 | 022445 | 847514 | 044507 | MSLT7: | . ASCII | /%%LOGIC | TEST | 7: FC | BIT | TEST (NBS | 905)0/ | |
| 3595 | 030022 | 620103 | 042524 | 052123 | | | | | | | | | |
| 3596 | 030030 | 033440 | 020072 | 041506 | | | | | | | | | |
| 3597 | 030036 | 841848 | 052111 | 052040 | | | | | | | | | |
| 3590 | 030044 | 051505 | 020124 | 046450 | | | | | | | | | |
| 3599 | 030052 | 034470 | 032460 | 021451 | | | | | | | | | |
| 3600 | 030060 | 022445 | 047514 | 044507 | MSLT10: | .ASCII | /88 LOGIC | TEST | 101 | FUNCTI | ON BIT TE | EST (M8905) | 10/ |
| 3601 | 030066 | 020103 | 042524 | 052123 | | | | | | | | | |
| 3602 | 030074 | 030440 | 835060 | 943949 | | | | | _ | | | | |
| | | | | | | | | | | | | | |

| TM02/T | U16 CONT | ROL LOGIC | TEST | MACY11 | 27(732) | 10-MAR | -76 13:16 | PAGE | 103 | |
|--------------|------------------|------------------|------------------|------------------|----------|---------|-----------|--------|--------|---------------------|
| 3659 | 030562 | 031040 | 038060 | | | | | | | |
| 3660 | 030570 | 046114 | 035060 043505 | 944449 | | | | | | |
| 3661 | 030576 | 043040 | 047125 | 046101 052103 | | | | | | |
| 3662 | 030604 | 047511 | 020116 | 042524 | | | | | | |
| 3663 | 030612 | 052123 | 024040 | 034115 | | | | | | |
| 3664 | 030620 | 030071 | 024471 | 043 | | | | | | |
| 3665 | 030625 | 045 | 046045 | | MSLT21: | .ASCII | /SSLOGIC | TEST | 211 | RMR(M8989)#/ |
| 3666 | 030632 | 041511 | 052040 | 051505 | | • | | | ••• | MAK (MOSOS) () |
| 3667 | 030640 | 020124 | 030462 | 020072 | | | | | | |
| 3660 | 030646 | 046522 | 024122 | 034115 | | | | | | |
| 3669 | 030654 | 030071 | 024471 | 043 | | | | | | |
| 3670 | 030661 | 045 | 046045 | 043517 | MSLT22: | .ASCII | /%%LOGIC | TEST | 221 | CPAR(M8989)#/ |
| 3671 | 030666 | 041511 | 052040 | 051505 | | | | | | |
| 3672 3673 | 030674 | 020124 | 031062 | 020072 | | | | | | |
| 3674 | 030702 030710 | 050103 034470 | 051101 | 046450 | | | | | | |
| 3675 | 030716 | 022445 | 034460 047514 | 021451 | HE. 800. | | | | | |
| 3676 | 030724 | 020103 | 042524 | 044507 052123 | MOLT231 | . ABCII | \##FOGIC | TEST | 231 | FHT(H8905 H8906) 0/ |
| 3677 | 030732 | 031040 | 035063 | 043040 | | | | | | |
| 3678 | 030740 | 052115 | 046450 | 034470 | | | | | | |
| 3679 | 030746 | 032460 | 046440 | 034470 | | | | | | |
| 3680 | 030754 | 033060 | 021451 | | | | | | | |
| 3681 | 030760 | 022445 | 047514 | 944507 | MSLT241 | .ASCII | /&&LOGIC | TEST | 241 [| PAR(M8986 RH)8/ |
| 3682 | 030766 | 020103 | 842524 | 052123 | | | | | •••• | rantaose kayer |
| 3683 | 030774 | 031040 | 035064 | 042040 | | | | | | |
| 3684 | 031002 | 040520 | 024122 | 934115 | | | | | | |
| 3685 | 031010 | 030071 | 020066 | 044122 | | | | | | |
| 3686 | 031016 | 021451 | | | | | | | | |
| 3687 | 031020 | 022445 | 947514 | 044507 | MSLT25: | .ASCII | /##FOCIC | TEST | 251 F | EF(H8989)8/ |
| 3689 | 031026 031034 | 020103 | 042524 | 052123 | | | | | | |
| 3690 | 031042 | 031040 043105 | 035065 | 847848 | | | | | | |
| 3691 | 031050 | 034460 | 046450 | 034470 | | | | | | |
| 3692 | 031054 | 022445 | 047514 | 044507 | MS1.726. | ASCTT | /881 0010 | **** | | |
| 3693 | 031062 | 020103 | 042524 | 052123 | 4001201 | | , agrooff | 1591 | 201 1 | CE(H8989) 0/ |
| 3694 | 031070 | 031040 | 035066 | 043040 | | | | | | |
| 3695 | 031076 | 042503 | 046450 | 034470 | | | | | | |
| 3696 | 031104 | 934469 | 021451 | | | | | | | |
| 3697 | 031110 | 022445 | 047514 | 844587 | MSLT27: | .ASCII | /88LOGIC | TEST | 27: 1 | LR(M8989)0/ |
| 3698 | 031116 | 020103 | 042524 | 052123 | | | | | | |
| 3699 | 031124 | 031040 | 035067 | 044440 | | | | | | |
| 3700 | 031132 | 051114 | 046450 | 034470 | | | | | | |
| 3702 | 031140 | 934469 | 021451 | | Mer | | | | | |
| 3703 | 031152 | 022445 020103 | 047514 042524 | 044507 | MSLT301 | . ABCII | \##FOGIC | TEST | 301 DT | E(M8986 RH) 8/ |
| 3704 | 031160 | 031440 | 035060 | 052123 052104 | | | | | | |
| 3705 | 031166 | 024105 | 034115 | 030071 | | | | | | |
| 3706 | 031174 | 020066 | 044122 | 021451 | | | | | | |
| 3707 | 031202 | 022445 | 047514 | 044507 | MS1.7311 | -ASCIT | /BBLOGIC | TEST | | PI(M0903)0/ |
| 3708 | 031210 | 020103 | 042524 | 052123 | | | | | 0 | - 4 (NO 3 / 4 / |
| 3709 | 031216 | 031440 | 035061 | 047440 | | | | | | |
| 3710 | 031224 | 844528 | 046450 | 034470 | | | | | | |
| 3711 | 031232 | 031460 | 021451 | | | | | | | |
| 3712 | 031236 | 022445 | 047514 | 044507 | MSLT321 | .ASCII | /SSLOGIC | TEST : | 32: U | NS(M8909)0/ |
| 3713 | 031244 | 020103 | 042524 | 052123 | | | | | | |
| 3714 | 031252 | 031440 | 035062 | 052440 | | | | | | |
| | | | | | | | | | | |

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|----------------------|------------------|------------------|-------------------|------------------|----------|---------------|----------|----------|----------------------------|
| 3715 | 031260 | 051516 | 046450 | 034470 | | | | | |
| 3716 | 031266 | | 021451 | | | | | | |
| 3717 | | 022445 | 047514 | 844597 | MSLT33: | .ASCII | /88LOGIC | TEST 33: | PIP(M8989)#/ |
| 3718 | | 020103 | 042524 | 052123 | | | | | |
| 3719 | 031306 | 031440 | 035063 | 950040 | | | | | |
| 3720 | 031314 | 050111 | 046450 | 034470 | | | | | |
| 3721 | 031322 | 034460 | 021451 | | HAT 854. | | ****** | | |
| 3722 3723 | 031326 | 022445 | 047514 | 044507 | | .wecii | \eerocic | IEST 341 | PES(M8911)0/ |
| 3724 | 031334 031342 | 020103 031440 | 042524 | 052123 050040 | | | | | |
| 3725 | 031350 | 051505 | 046450 | 034470 | | | | | |
| 3726 | 031356 | 030461 | 021451 | | | | | | |
| 3727 | 031362 | 022445 | 047514 | 844587 | HELTIST | .ASCII | /SSLOGIC | TEST 35: | TCW(M8903 M8905)0/ |
| 3728 | 031370 | 020103 | 042524 | 052123 | | | | | |
| 3729 | 031376 | 031440 | 035065 | 052040 | | | | | |
| 3730 | 031404 | 053503 | 046450 | 034470 | | | | | |
| 3731 | 031412 | | 046440 | 034470 | | | | | |
| 3732 | 031420 | | 021451 | | | | | | |
| 3733 | 031424 | | 047514 | 044507 | | .ASCII | \##FOCIC | TEST 36: | FC8(M8983 H8985)8/ |
| 3734 | 031432 | | 042524 | 052123 | | | | | |
| 3735 | 031440 | | 035066 | 043040 | | | | | |
| 3736 | 031446 | 051503 | 046450 | 934470 | | | | | |
| 3737 3730 | 031454 | | 046440 | 034470 | | | | | |
| 3739 | 031462 031466 | | 021451 | 044507 | H41.937. | ARCTT | /BBLOGTC | **** *** | ACCL(M8983 M8985)8/ |
| 3740 | 031474 | | 042524 | 052123 | | | \eepootc | 1501 3/1 | WCCT(W6362 W6362)61 |
| 3741 | 031502 | | 035067 | 040440 | | | | | |
| 3742 | 031510 | | 024114 | 034115 | | | | | |
| 3743 | 031516 | | 020063 | 034115 | | | | | |
| 3744 | 031524 | | 024465 | 043 | | | | | |
| 3745 | 031531 | | 046045 | 043517 | MSLT40: | .ASCII | /%%LOGIC | TEST 40: | PE TAPE HARK(M8982)8/ |
| 3746 | 031536 | | 052040 | 051505 | | | | | |
| 3747 | 031544 | 020124 | 930064 | 020072 | | | | | |
| 3748 | 031552 | 042520 | 052040 | 050101 | | | | | |
| 3749 | 031560 | | 040515 | 045522 | | | | | |
| 3750 3751 | 031566 031574 | 046450 021451 | 034470 | 031060 | | | | | |
| 3752 | 031576 | 022445 | 047514 | 844597 | M81.941. | ASCTT | /BALOGIC | | NRZ TAPE MARK (M8984) 0/ |
| 3753 | 031604 | 020103 | 042524 | 052123 | HODIATI | | \44F00IC | 1201 411 | HET TUBE HOUR (HEARS) 61 |
| 3754 | 031612 | 032040 | 035061 | 047040 | | | | | |
| 3755 | 031620 | 055122 | 052040 | 050101 | | | | | |
| 3756 | 931626 | | 040515 | 045522 | | | | | |
| 3757 | 031634 | 024040 | 034115 | 030071 | | | | | |
| 3758 | 031642 | 824464 | 943 | | | | | | |
| 3759 | 031645 | 045 | 046045 | 043517 | MSLT42: | .ASCII | /88LOGIC | TEST 421 | WRAP 3, NRZ, NORMAL, ODDs/ |
| 3760 | 031652 | 041511 | 052040 | 051505 | | | | | |
| 3761 | 031660 | | 031064 | 020072 | | | | | |
| 3762 | 931666 | | 050101 | 931449 | | | | | |
| 3763 3764 | 931674 | 047054 | 055122 | 947954 | | | | | |
| 3765 | 031702 | | 040515 | 026114 | | | | | |
| 3766 | 031710 | 042117 022445 | 021504 | 944597 | M81.943. | ARCTT | /AALOGTC | TEAT 434 | WRAP 3, PE, NORMAL, ODDe/ |
| 3767 | 031722 | | 042524 | 052123 | | , | \44m0q1c | 1501 431 | **** 31 PE, NURMAN, UUUS/ |
| 3768 | 031730 | | 035063 | 053440 | | | | | |
| 3769 | 031736 | | 020120 | 026063 | | | | | |
| 3770 | 031744 | 042520 | 047054 | 051117 | | | | | |
| The same of the same | | | The second second | | | Marie Control | | | |

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TM02/TU16 CONTROL LOGIC TEST

050115 <u>051040</u>

DZTUCE, P11 MSLTS4: .ASCII /%%LOGIC TEST 54: EVEN PARITY WRITE (M8903 M8904)0/ MSLT55: .ASCII /%%LOGIC TEST 55: EVEN PARITY READ(M8903 M8904)0/ MSLT56: ASCII /%%LOGIC TEST 56: READ REVERSE(M8986)0/ MSLT57: ASCII /8%LOGIC TEST 57: CRC(M8904)0/ MSLT60: ASCII /8%LOGIC TEST 60: LRC(M8904) 0/ MSLT61: ASCII /8%LOGIC TEST 61: CORRECTABLE DATA (M8982 M8981)#/ MSLT62: .ASCII /88LOGIC TEST 62: INCORRECTABLE DATA (M8902 M8964) 0/ 043517 Malt63: ,ASCII /88LOGIC TEST 63: PEF(M0902)0/

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TM02/TU16 CONTROL LOGIC TEST

TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 107 DZTUCE,P11

| | 3883 | 033124 | 020124 | 031466 | 020072 | | | | | | | | | |
|---|------|--------|--------|--------|--------|---------|--------|----------|------|-----|----|----------|-----------|--|
| | 3884 | 033132 | 042520 | 024106 | 034115 | | | | | | | | | |
| | 3885 | 033140 | 030071 | 024462 | 043 | | | | | | | | | |
| | 3886 | 033145 | 045 | 046045 | 043517 | MSLT64: | .ASCII | /%%LOGIC | TEST | 641 | FC | OVERFLOW | (M8905)0/ | |
| 1 | 3887 | 033152 | | 052040 | | | | | | | | | | |
| | | | | 032066 | | | | | | | | | | |
| | | | 041506 | | 042526 | | | | | | | | | |
| | 3890 | 033174 | 043122 | 047514 | 020127 | | | | | | | | | |
| | 3891 | 033202 | 046450 | 034470 | 032460 | | | | | | | | | |
| | 3892 | 033210 | 021451 | | | | | | | | | | | |

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| | 3893 | | | | | | | |
|---|------|------------------|------------------|------------------|--------|--------|---------|--|
| | 895 | | | | | | MANUAL | INSTRUCTION |
| | 3896 | 033212 | 052045 | 050131 | 020105 | MMSG0: | ASCIT | /STYPE CR WHEN READY; 0/ |
| | 8897 | 033220 | 051103 | 053440 | 042510 | | | THE CL WILLIAM KONDISTY |
| | 898 | 033226 | 020116 | 042522 | 042101 | | | |
| | 899 | 033234 | 035531 | 043 | | | | |
| | 900 | 033237 | 045 | 046445 | 052517 | MM8G11 | -ASCII | /SEMOUNT TAPE WITH NO WRITE RING, LOAD TO BOT, SET TO ON LINE: 0/ |
| | 1901 | 033244 | 052116 | 052040 | 050101 | | | Actions the mess we where wend move to post on the principle |
| | 902 | 033252 | 020105 | 044527 | 044124 | | | |
| | 903 | 033260 | 047040 | 020117 | 051127 | | | |
| | 904 | 033266 | 052111 | 020105 | 044522 | | | |
| | 905 | 033274 | 043516 | 020054 | 047514 | | | |
| 3 | 906 | 033302 | 042101 | 052040 | 020117 | | | |
| 3 | 1907 | 033310 | 047502 | 026124 | 051440 | | | |
| 3 | 908 | 033316 | 052105 | 052040 | 020117 | | | |
| 3 | 909 | 033324 | 847117 | 046040 | 047111 | | | |
| 3 | 910 | 033332 | 035105 | 043 | | | | |
| | 911 | 033335 | 045 | 042523 | 020124 | MMSG2: | .ASCII | /SET TO OFFLINE:0/ |
| | 1912 | 033342 | 847524 | 847448 | 043106 | | | H. 1982 (18 10) 1983 (1982 - 1982 - 1982 - 1982 (1982 - 1982 - 1982 - 1982 - 1982 (1982 - 1982 - 1982 - 1982 - |
| | 1913 | 033350 | 044514 | 042516 | 021472 | | | |
| | 1914 | 033356 | 046445 | 053117 | 020105 | MMSG3: | .ASCII | /SMOVE FORWARD TO EOT, ONLINE: 8/ |
| | 1915 | 033364 | 047506 | 053522 | 051101 | | | |
| | 916 | 033372 | 020104 | 047524 | 042440 | | | |
| | 1917 | 033400 | 052117 | 020054 | 047117 | | | |
| | 918 | 033406 | 044514 | 042516 | 021472 | | | [HOLD NOTE TO SEE STATE OF THE SECOND SE |
| | 919 | 033414 | 047445 | 043106 | 046040 | MM8G4: | . ASCII | /AOFF LINE REVERSE PAST EOT, INSERT WRITE RING, ON LINES/ |
| | 920 | 033422 | 047111 | 020105 | 042522 | | | |
| | 921 | 033430 | 042526 | 051522 | 020105 | | | |
| | 922 | 033436 | 848528 | 052123 | 842448 | | | |
| | 923 | 033444 | 052117 | 020054 | 047111 | | | |
| | 924 | 033452 | 042523 | 052122 | 053440 | | | |
| | 925 | 033460 | 044522 | 042524 | 051040 | | | |
| | 926 | 033466 | 847111 | 026107 | 847448 | | | |
| | 927 | 033474 | 020116 | 044514 | 042516 | | | |
| | 928 | 033502 033503 | 043 | 04444 | | MMece. | | ANAMANE STAR SA BAR. ON LINES |
| | 930 | | 045 | 046445 | 053117 | MM8G5: | , wacii | /88MOVE TAPE TO BOT; ON LINEs/ |
| | 931 | 033510 033516 | 020105 052040 | 040524 020117 | 942529 | | | |
| | 932 | 033524 | 035524 | | 047502 | | | |
| | 933 | | 044514 | 047440 | 920116 | | | |
| 3 | ,,,, | 033532 | 944214 | 042516 | 043 | | | |

SEQ 0146

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| 3934 | | | | | | | |
|------|------------------|------------|--------|--------|--------|---------|-----------|
| 3935 | | | | | | TAG ME | ***** |
| 3936 | | | | | | IINO HE | SOAGE |
| 3937 | 033537 | 045 | 046123 | 020101 | THS1: | .ASCII | /98LA 0/ |
| 3938 | 033544 | 043 | 040123 | 929191 | | | /40UA */ |
| 3939 | 033545 | 045 | 047502 | 020124 | TH821 | ASCII | /8BOT #/ |
| 3940 | 033552 | 043 | 041302 | 020124 | | | ,4001 41 |
| 3941 | 033553 | 045 | 046524 | 021440 | TM831 | ASCII | /STH 0/ |
| 3942 | 033560 | 844445 | 041104 | 021440 | TM84: | ASCII | /SIDB 0/ |
| 3943 | 033566 | 051445 | 053504 | 020116 | TM85: | ASCII | /88DWN 0/ |
| 3944 | 033574 | 043 | | | | | |
| 3945 | 033575 | 045 | 042520 | 020123 | TMS6: | ASCII | /4PES 0/ |
| 3946 | 033602 | 043 | | | | • | |
| 3947 | 033603 | 045 | 051523 | 020103 | TM87: | .ASCII | /488C 1/ |
| 3948 | 033610 | 043 | | | | | |
| 3949 | 033611 | 045 | 051104 | 020131 | TMS8: | .ASCII | /SDRY 0/ |
| 3950 | 933616 | 043 | | | | | |
| 3951 | 033617 | 045 | 050104 | 020122 | TMS9: | ASCII | /8DPR 0/ |
| 3952 | 033624 | 043 | | | | | |
| 3953 | 033625 | 045 | 052116 | 020114 | TM8101 | .ASCII | /SNTL S/ |
| 3954 | 033632 | 043 | | | | | |
| 3955 | 033633 | 045 | 047505 | 020124 | TMS11: | . ASCII | /SEOT #/ |
| 3956 | 033640 | 043 | | | | | |
| 3957 | 033641 | 045 | 051127 | 020114 | TM5121 | .ASCII | /8WRL 0/ |
| 3958 | 933646 | 043 | | | | | |
| 3959 | 033647 | 045 | 047515 | 020114 | TM813: | .ASCII | SHOT 61 |
| 3960 | 033654 | 043 | | | | | |
| 3961 | 033655 | 045 | 044520 | 020120 | TM8141 | , ASCII | /SPIP s/ |
| 3962 | 033662 | 043 | | | | | 40500 44 |
| 3963 | 033663 | 045 | 051105 | 020122 | TM815: | .ASCII | /SERR 0/ |
| 3964 | 033670 033671 | 043 045 | | 020101 | TM8161 | ACCTT | /8175 4/ |
| 3966 | 033676 | 043 | 052101 | 020101 | 149141 | .ASCII | /SATA S/ |
| 3967 | 033677 | 045 | 946111 | 020106 | TM817: | .ASCII | /SILF 0/ |
| 3968 | 033704 | 043 | | 020100 | | | ,4101 47 |
| 3969 | 033705 | 045 | 046111 | 020122 | TM818: | .ASCII | /%ILR 0/ |
| 3970 | 033712 | 043 | | | | | |
| 3971 | 033713 | 045 | 046522 | 020122 | TM819: | .ASCII | /8RMR 0/ |
| 3972 | 033720 | 043 | | | | | |
| 3973 | 033721 | 045 | 050103 | 051101 | TM8201 | . ASCII | /SCPAR S/ |
| 3974 | 033726 | 021440 | | | | | |
| 3975 | 033730 | 043045 | 052115 | 021440 | TM8211 | .ASCII | /SFHT 0/ |
| 3976 | 033736 | 042045 | 040520 | 020122 | TM8221 | . ASCII | /SDPAR S/ |
| 3977 | 033744 | 043 | | | | | |
| 3978 | 033745 | 045 | 047111 | 020103 | TM823: | . ASCII | /SINC D/ |
| 3979 | 033752 | 043 | | | | | |
| 3980 | 033753 | 045 | 050126 | 020105 | TM8241 | .ASCII | /AVPE #/ |
| 3981 | 033760 | 043 | | | | | |
| 3982 | 033761 | 045 | 042520 | 020106 | TM8251 | .ASCII | /APEF #/ |
| 3983 | 033766 | 043 | | | | | |
| 3984 | 033767 | 045 | 051114 | 020103 | TMS261 | ,ASCII | /%LRC 8/ |
| 3985 | 033774 | 043 | | | | | |
| 3986 | 033775 | 045 | 051516 | 020107 | TM8271 | .ASCII | /SNSG 0/ |
| 3987 | 034002 | 043 | - | | | | - |
| 3989 | 034003 | 045 | 041506 | 020105 | TM8281 | .ASCII | /SFCE 0/ |
| 3707 | 034010 | 043 | _ | | | | |

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TM02/TU16 CONTROL LOGIC TEST
                              MACY11 27(732) 18-MAR-76 13116 PAGE 110
DZTUCE, P11
 3990 034011
                  045 051503
                              021440
                                     TM829:
                                              .ASCII /9CS #/
               044445 046524
                              021440
                                      TM830:
                                              .ASCII
                                                     /% ITH #/
 3992 034024
               047045
                      043105
                                             . ASCII
                              021440
                                      TM831:
                                                     /SHEF 0/
 3993 034032
               042045
                      042524
                              021440
                                      TM8321
                                             ASCII
                                                     /SDTE S/
 3994 034040
               047445
                      844528
                              021440
                                      TM833: .ASCII
                                                     /80PI #/
 3995
       034046
               053445
                      044522
                              042524
                                      THESSA: . ASCII
                                                     /SWRITE OPI #/
 3996
       034654
               047440
                      044520
                              021440
 3997 034062
               051045
                      040505
                              020104
                                     TMS33B: .ASCII /READ OPI #/
 3998 034070
               050117
                      020111
                                 043
 3999 034075
                      647125 620123
                 045
                                     TH834: .ASCII /SUNS #/
 4000 034102
                  643
 4001 034103
                  045
                      047503 051122 TM835: .ASCII /4CORR 0/
 4002 034110
               821448
 4003 034112
              841445
                      041522 021440
                                     TM836:
                                             .ASCII /SCRC #/
 4004 034120
               052045
                      053503 021440
                                     TM837:
                                             .ASCII
 4005 034126 043045
                      051503 021440
                                             ASCII /SFCS 0/
                                     TM838:
 4006 034134
              848445 841583 828114 TM8391
                                             .ASCII /SACCL 0/
 4007 034142
               043
 4008
 4009
               034144
                                             . EVEN
 4010
                                             WRITE BUFFER
 4011
 4012
      034144
                                     WDATA: , REPT
                                                     100
 4013
                                             -1
 4014
                                             ENDR
 4015
 4016
 4017
                                             READ BUFFER
 4018
 4019
      034344
                                   RDATA: , REPT
                                                    100
 4020
 4021
                                             . ENDR
 4022
 4023
                                             WRAP AROUND MESSAGES
 4024
      034544 051445 052105 050125 WMSG2: ,ASCII /8SETUP ERRORSO/
 4025
      034552 042440 051122 051117
 4026
      034560 021445
 4027
 4028
      034562 050045 052101 047122
                                     WMSG3: ,ASCII /&PATRN NUMBER = 0/
 4029
      034570 047040
                     046525
                              042502
 4030
      034576
              020122
                      020075
                                043
 4031
      034603
                 045
                      047516
                             026516
                                     WMSG4: ,ASCII / NON-EXISTANT DRIVES:/
 4032 034610
              054105
                      051511
                             040524
 4033 034616
              052116
                      942949
                             044522
 4034 034624
              042526
                      021445
 4035 034630
                             021440 WMSG6: .ASCII
              841445
                      030523
                                                    /8C81 0/
 4036
              053445 020103
      034636
                                043
                                     WM8G6A: .ASCII
 4037 034643
                 045 040502
                             021440
                                    WM8G6B: ASCII
                                                    /8BA 0/
 4038 034650
              043045 020103
                                043 WHSG6C: ASCII /AFC 0/
 4039 034655
                 045 051503
                             020062
                                     WM8G6D: ASCII /9C82 8/
 4040 034662
                 043
 4041 034663
                 045
                     051504
                             021440
                                     WMSG6E: . ASCII
                                                    /8D8 0/
 4042 034670
              042445 020122
                                043
                                     WM8G6F: .ASCII
                                                    /SER 6/
 4043 034675
                 045 051501
                             021440
                                     WHSGGG: . ASCII /SAS 0/
 4044 034702 041445 020103
                                043
                                     WM8G6HI .ASCII /9CC #/
 4045 034707
                 045 841104 021440 WMSG6I: ASCIT /ADR A/-
```

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TM02/TU16 CONTROL LOGIC TEST MACY11 27(732) 18-MAR-76 13:16 PAGE 111
DZTUCE.P11
       034714
                                       WMBG6J: .ASCII
               046445 020122
                                   043
                                                       /8HR 0/
       034721
                  045
                      052104
                               021440
                                       WM8G6K: .ASCII
                                                        /8DT #/
  4048
               052045
                                       WM8G6L: . ASCII
       034726
                       020103
                                  043
                                                       /8TC 0/
  4049
       034733
                   045 047123
                                                       /88N 0/
                               021440
                                       WM8G6M1 .ASCII
       034740
               041045
                       042101
                               942949
                                       WM8G16: .ASCII
                                                       /SBAD DATAS/
  4051
       034746
               052101
                       021501
  4052
       034752
               843445
                       020072
                                  043
                                       WM8G17: .ASCII
                                                        /8G1 0/
                               021440
  4053
       034757
                  045
                       035102
                                       WM8G201 .ASCII
                                                        /8B: 0/
               841445
  4054
       034764
                       035116
                               021440
                                       WM8G21: .ASCII
                                                       /8CN: 0/
 4055
       034772
               041045
                       042101
                              951440
                                       WM8G23: .ASCII
                                                       /SBAD STATUSO/
 4056
       035000
               848524
                       052524
                               021523
 4057
       035006
               847845
                       020117
                               047111
                                       WM8G24: .ASCII / NO INTERRUPTO/
 4058
      035014
               042524
                       051122
                               050125
 4059
      035022
               821524
 4060
      035024
               047045
                       020117 046103
                                       WM8G25: ASCII / NO CLOCK UP#/
 4061
      035032
               041517
                       020113 050125
 4062
       035040
                  043
 4063
       035041
                  045
                       047516
                               841448
                                       WM8G26: .ASCII /NO CLOCK DOWNS/
               847514
 4064
       035046
                       045503
                               042040
 4065
      035054
               053517
                       021516
 4066
      035060
               042045 052101
                               020101
                                       WM8G27: ASCII /QDATA PAT:0/
 4067 035066
               848528
                       035124
                                  043
 4068 035073
                  045
                       040502
                               020104
                                       WMSG28: ,ASCII /&BAD PREAMBLES/
 4069 035100
               051120
                       040505
                               041115
 4070 035106
                          043
               042514
 4071 035111
                       040502
                  045
                               020104
                                       WMSG29: ASCII /ABAD POSTAMBLE:/
      035116
               047520
                       052123
 4072
                               046501
 4073
      035124
               046192
                       021505
 4074
      035130
               042445
                       051117
                                       WMSG31: .ASCII /GEOR CLEAR DID NOT CLEAR GOGO/
                               041440
 4075
      035136 042514 051101
                               042040
 4076
                       047040
      035144
               042111
                               052117
 4077
      035152
               841448
                       042514
                               051101
 4078
      035160
               843448
                       022517
                                  043
 4079 035165
                  040
                       040520
                               951124 WM8G32: .ASCII / PATRN 8/
 4080
      035172
               020116
                          843
 4081
 4082
       035175
                  045
                       043536
                                  043 SCNTG: ASCII /8°G0/
 4083
       035201
                  045
                       053523
                               036522 $MSWR: .ASCII /$SWR# #/
 4084
       035206
               021440
 4085
      035210 020040
                       042516 036527 SMNEW: .ASCII / NEWs 0/
      035216 021440
 4087
       035220 037440
                                  043 SQUEST: ASCII / ? 40/
                       022440
 4088
 4009
               035226
                                                . EVEN
       035226 000000
 4090
                                       PREI
 4091
                                               REPT
                                                       50
 4092
                                                ENDR
 4093
 4094
       035350 000000
                                       POSTI
 4095
                                               REPT
                                                       50
 4096
 4097
                                               . ENDR
 4098
       035472
               000000
                                       WBUFF:
 4099
                                               .-.+410
               036104
 4100
       036104
              999999
                                       RBUFF:
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SEQ 0149

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000001

. END

| TH02/TU16 CONTROL LOGIC TEST | MACY11 27(732) | 18-MAR-76 | 13116 | PAGE | 114 |
|------------------------------|----------------|-----------|-------|------|-----|
| DZTUCE.P11 SYMBOL TABLE | | | | | |

| ADDFL | 000746 | DCHKA1 | 017522 | ER | 000524 | LTGER | 022014 | LT14 | 005056 |
|--------|--------|------------|--------|---------|--------|--------|--------|---------|--------|
| AS | 000526 | DCHKA2 | 017550 | ERADD | 000672 | LIGERO | 022006 | LT14A | 005100 |
| ASF | 600730 | DCHKB | 017622 | ERRF | 000726 | LTGER1 | 023154 | LT14IT | 005116 |
| ATAF | 000720 | DCHKC | 017672 | EXEC | 016244 | LTGER2 | 023146 | LT14X | 005156 |
| ATTA | 022746 | DCHKD | 017700 | EXFL | 000716 | LTGER3 | 021774 | | 005162 |
| ATTB | 022770 | DCHKE | 020250 | EXM5 | 016662 | LTGX | 022260 | LT14XX | |
| ATTC | 023012 | DCHKX | 020204 | EXWZA | 016710 | | | LT15 | 005166 |
| ATTD | 023022 | DCHKX1 | 020226 | | | LTGXA | 022272 | LTISA | 005210 |
| ATTN | 022726 | DCHKO | 017702 | EXW28 | 016726 | LTGXX | 022314 | LTISIT | 005226 |
| ATTP | 023032 | DCHK1 | 017734 | EXM3C | 016742 | LTG1A | 023174 | LTISX | 005266 |
| ATTPA | 023060 | DCHK1A | | EXMSE | 016762 | LTGIB | 023212 | LTISXX | 005272 |
| | 023104 | | 017772 | EXW2F | 016770 | LTG1C | 023322 | LT16 | 005276 |
| ATTX | 023116 | DCHK3 | 020062 | EXW2G | 017020 | LTG1T | 023272 | LTIGA | 005320 |
| ATTXA | | DCHK3V | 020126 | EXM3H | 017034 | LTGIX | 023326 | PATER | 005336 |
| ATTXX | 023140 | DCHK2B | 020130 | EXM37 | 017046 | LTGIXX | 023362 | LT16X | 005376 |
| BA | 000514 | DCHK3 | 020154 | EXM370 | 017066 | LTG1X1 | 023340 | LT16XX | 005402 |
| BOTT | 016620 | DCKEP | 020606 | EXW2J1 | 017070 | LT1 | 002310 | LT17 | 005406 |
| BOTTA | 016644 | DCKEPO | 020636 | EXM3K | 017110 | LTIA | 002412 | LT17A | 005430 |
| BOTTX | 016660 | DCKES | 020264 | EXM5X | 017124 | LTIB | 002452 | LT17IT | 005446 |
| CC | 000530 | DCKE1 | 020274 | EXO | 016262 | LTIC | 002464 | LT17X | 005506 |
| CKSWR | 024442 | DCKE10 | 020546 | EX1 | 016276 | LTIER | 002474 | LT17XX | 005512 |
| CNTLU | 024514 | DCKE11 | 020572 | EXIA | 016312 | LT1ER1 | 002504 | LT2 | 002540 |
| COUNT | 024436 | DCKE12 | 020602 | EX3 | 016332 | LT1ER2 | 002512 | P13V | 002600 |
| CRCNT | 000774 | DCKE3 | 020304 | EX3 | 016356 | LTIG | 002334 | LT28 | 002620 |
| CS | 000520 | DCKE3 | 020314 | EXS | 016410 | LT1G0 | 002324 | LT2C | 002634 |
| CI | 000510 | DCKE4 | 020334 | EXSA | 016414 | LTIX | 002534 | LT2ERG | 002714 |
| DATAD | 000760 | DCKES | 020346 | EXSA1 | 016450 | LT10 | 004150 | LT2ER1 | 002644 |
| DATAG | 001032 | DCKES | 020404 | EXSB | 016504 | LTICA | 004166 | LTZER2 | 002662 |
| DATA1 | 001034 | DCKE7 | 020442 | EXSC | 016534 | LT10A1 | 004164 | LT2ER3 | 002700 |
| DATAS | 901036 | DERFL | 000766 | EXSCO | 016600 | LTIOS | 004226 | PASTA. | 002542 |
| DATAS | 001040 | DOUT | 024752 | EXSC1 | 016604 | LTIGET | 004250 | LTZLP | 002730 |
| DATBL | 001030 | DOUTD | 025034 | EXSD | 016610 | LTIGIT | 004152 | LT2X | 002736 |
| DATC | 000754 | DOUT1 | 024766 | FC | 000516 | LTIOX | 004274 | LTZO | 005516 |
| DATI | 015400 | DOUT2 | 025014 | FUN | 000752 | LT11 | 004304 | LTZOA | 005544 |
| DATIA | 015404 | DOUTS | 025022 | HDRFL | 000620 | LTIIB | 004336 | LT208 | 005622 |
| DATIB | 015410 | DRVCLR | 022464 | ILFT | 000544 | LTIIC | 004402 | LT20C | 005632 |
| DATE | 015422 | DRVN | 000624 | INITA | 023502 | LTILES | 004424 | LTZelT | 005532 |
| DATE | 015430 | DRVTP | 000604 | INIT2 | 023510 | LTI1E2 | 004456 | LTZOX | 005646 |
| DAT4 | 015440 | DS | 000522 | INMT | 023462 | LT11E3 | 004510 | LT21 | 005662 |
| DAT4A | 015446 | DAUP | 015214 | INST | 023526 | | 004306 | | 005766 |
| DB | 000532 | D80 | 015304 | ITANT | 000606 | LTILIT | | LT21A | |
| DCA | 022514 | DS1 | 015330 | ITCHT | | LTILX | 004536 | LT218 | 005776 |
| DCAO | 022530 | | | | 000702 | LT12 | 004546 | PASTIL. | 005676 |
| | 022570 | D82 D83 | 015350 | ITER | 023420 | LT12B | 004576 | LT21XA | 006006 |
| DCB | | | 015360 | ITERO . | 023430 | LT12C | 004640 | LT22 | 006026 |
| DCC | 022600 | D84 | 015370 | ITER1 | 023436 | LT12E1 | 004660 | LT22A | 006126 |
| DCD | 022470 | DT | 000536 | ITRLP | 000714 | LT12E2 | 004702 | LT221T | 006042 |
| DCE | 022610 | EMADDR | 000622 | LTADD | 000742 | LT12E3 | 004724 | LT22X | 006136 |
| DCEA | 022636 | EORP | 021602 | LTGA | 022034 | LT12IT | 004550 | LT23 | 006152 |
| DCEX | 022656 | EORPA | 021576 | LTGAI | 022052 | LT12X | 004744 | LT23A | 006252 |
| DCEXA | 022670 | EORPX | 021766 | LTGAZ | 022104 | LT13 | 004754 | TIS311 | 006166 |
| DCEXX | 022712 | EORP1 | 021636 | LTGB | 022132 | LT13A | 005014 | LT23X | 006262 |
| DCHK | 017416 | EORP1A | 021704 | LTGC | 022136 | LT13E1 | 005020 | LT24 | 006302 |
| DCHKA | 017472 | EORP2 | 021730 | LTGCO | 022224 | LT13IT | 004764 | LT24A | 006414 |
| DCHKAG | 017446 | EORP3 | 021752 | LTGD | 022230 | LT13X | 005046 | LT24B | 006430 |
| | | | | | | | | | |

| TM02/TU16 CONTROL LOGIC TEST | MACY11 27(732) | 18-MAR-76 | 13116 | PAGE | 115 |
|------------------------------|----------------|-----------|-------|------|-----|
| DZTUCE.P11 SYMBOL TABLE | | | | | |

| LT2480 | 006452 | LT33 | 010312 | LT44 | 012010 | LT6ER4 | 004004 | ***** | |
|--------|--------|--------|------------------|--------|--------|----------------|--------|--------|--------|
| LT24C | 006464 | LT33IT | 010326 | LT44A | 012054 | LTGIT | 003614 | MMSG1 | 033237 |
| LT24D | 006546 | LT33X | 010404 | LT44B | 012066 | LTGX | | MM8G2 | 033335 |
| LT24IT | 006316 | LT34 | 010414 | LT45 | 012116 | LTGO | 004014 | MMSG3 | 033356 |
| LT24X | 006572 | LT34A | 010454 | LT45A | 012130 | LTGOC | 013566 | MMSG4 | 033414 |
| LT25 | 006626 | LT34A1 | 010442 | LT46 | 012200 | | 013652 | MMSGS | 033503 |
| LT25A | 006734 | LT34B | 010504 | LT46A | 012244 | LT60D LT60E | 013666 | MR | 000534 |
| LT25IT | 006642 | LT34C | 010516 | LT46B | 012256 | | 013720 | MSG1 | 025172 |
| LT25X | 006744 | LT34IT | 010436 | LT47 | 012306 | LTGOF | 013752 | MAGIO | 025751 |
| LT26 | 006760 | LT34X | 010546 | LT47A | 012320 | LTGOIT | 013600 | MSG11 | 025775 |
| LT26A | 007044 | LT34XX | 010552 | LTS | 003410 | LTGOX | 013772 | M&G12 | 026022 |
| LT26B | 907070 | LT35 | 010556 | LTSA | 003430 | LT61 | 014006 | MSG13 | 026031 |
| LT26C | 007144 | LT35A | 010660 | LTSB | 003454 | LTGIA | 014100 | MSG14 | 026040 |
| LT26IT | 006766 | LT35IT | 010572 | LTSC | 003464 | LT61A1 | 014112 | HSG15 | 026055 |
| LT26W | 006774 | LT35X | 010720 | LTSD | 003474 | LT618 | 014122 | M8G16 | 026073 |
| LT26X | 007160 | LT36 | 010730 | LTSE | 003520 | LT61C | 014136 | MSG17 | 026103 |
| LT27 | 907174 | LT36A | 011000 | LTSER1 | 003532 | LT61D | 014164 | MSG18 | 026117 |
| LT27A | 007230 | LT36IT | 010744 | LTSER2 | 003556 | LT61E | 014166 | Mag19 | 026136 |
| LT27B | 007266 | LT36X | 011040 | LTSIT | 003416 | LT61F | 014230 | H8G2 | 025276 |
| LT27IT | 007220 | LT37 | 011050 | LTSX | 003602 | LTGIIT | 014034 | MSG2A | 025315 |
| LT27X | 007276 | LT37A | 011124 | LTSO | | LT61X | 014250 | H8G20 | 026155 |
| LT27XX | 007306 | LT37B | 011156 | LTSOA | 012374 | LT61XX | 014260 | M8G21 | 026207 |
| LT3 | 002746 | LT37IT | 011064 | LTSOB | 012440 | LT62 | 014264 | MSG22 | 026245 |
| LT3A | 002766 | LT37X | 011210 | | 012452 | LT62A | 014400 | M8G23 | 026266 |
| LT3B | 003006 | LT4 | 003132 | LT51 | 012502 | LT62B | 014414 | M8G24 | 026321 |
| LT3C | 003022 | LT4A | 003226 | LTSIA | 012514 | LT62D | 014444 | MSG25 | 026347 |
| LT3ER1 | 003034 | LT4B | 003272 | LT52 | 012564 | LT62E | 014356 | M&G25A | 026376 |
| LT3ER2 | 003062 | LT4C | 003304 | LT52A | 012642 | LT62E1 | 014370 | MSG26 | 026423 |
| LTSIT | 002750 | LT4D | 003324 | LT52X | 012666 | LT62F | 014476 | M8G27 | 026452 |
| LT3X | 003104 | LT4ERG | 003354 | LT53 | 012676 | P4e514 | 014312 | M8G3 | 025444 |
| LT3XX | 003122 | LT4ER1 | 003336 | LTSJA | 012762 | LT62X | 014522 | MSG30 | 026466 |
| LT30 | 007312 | LT4ER2 | 003346 | LT53X | 013014 | LT62XX | 014532 | MBG31 | 026474 |
| LT30A | 007414 | LT4G | 003156 | LT54 | 013024 | LT63 | 014536 | MSG32 | 026512 |
| LT30B | 007456 | LT4G0 | 003146 | LTSS | 013074 | LT63A | 014626 | M8G33 | 026530 |
| LT30C | 007516 | LT4X | 003404 | LT56 | 013144 | LT63B | 014676 | MBG34 | 026551 |
| LT30D | 007534 | LT40 | 011220 | LT57 | 013222 | LT63C | 014712 | MSG35 | 026566 |
| LT30E | 007564 | LT40A | 011302 | LTS7A | 013324 | LT63D | 014744 | MSG36 | 026604 |
| LT30IT | 007334 | LT40IT | 011242 | LT57B | 013340 | LT63IT | 014564 | MSG37 | 026622 |
| LT30X | 007610 | LT40W | 011250 | LTS781 | 013366 | LT63X | 014764 | MSG4 | 025466 |
| LT31 | 007630 | LT40X | 011336 | LT5782 | 013406 | LT63XX | 014774 | MSG40 | 026640 |
| LT31A | 007724 | LT40XX | 011342 | LT57C | 013460 | L764 | 015000 | M8G41 | 026644 |
| LT31B | 007766 | LT41 | 011346 | LT57D | 013474 | LT64A | 015070 | M8G42 | 026663 |
| LT31C | 010004 | LT41A | 011424 | LT57E | 013524 | LT64B | 015102 | MSG43 | 026700 |
| LT31D | 010052 | LT41B | 011460 | LTS7IT | 013252 | LT64C | 015106 | MSG44 | 027004 |
| LT31E | 010122 | LT41C | 011510 | LTS7P8 | 013232 | LT64IT | 015014 | MSG45 | 027026 |
| LTBILT | 007644 | LT41D | | LTS7X | 013544 | LT64X | 015160 | MSG46 | 027050 |
| LT31W | 007660 | LT41IT | 011542 | LT6 | 003612 | LT7 | 004024 | MSG47 | 027154 |
| LT31W1 | 010012 | LT41X | 011362 | LT6A | 003630 | LT7A | 004042 | M&G5 | 025504 |
| LT31X | 010136 | LT42 | 011562 | LT6A1 | 003626 | LT7B | 004066 | MSG50 | 027206 |
| LT32 | 010160 | LT42A | 011614 | LT6B | 003634 | LT7C | 004032 | MSG51 | 027225 |
| LT32A | 010266 | LT428 | 011660 | LT6C | 003660 | LT7ER1 | 004110 | MSG52 | 027254 |
| LT32IT | 010174 | LT43 | 011672 011726 | LT6D | 003674 | LT71T | 004026 | MSG53 | 027270 |
| LT32X | 010276 | LT43A | | LT6ER1 | 003716 | LT7X | 004134 | MSG54 | 027302 |
| | | 0.438 | 011740 | LT6ER2 | 003742 | MMSGO | 033212 | MSG55 | 027313 |
| | | | | | | | | | |

| TM02/TU16 CONTROL LOGIC TEST | MACY11 27(732) | 18-HAR-76 | 13116 | PAGE 116 |
|------------------------------|----------------|-----------|-------|----------|
| DZTUCE.P11 SYMBOL TABLE | | | | |

| MSG56 | 027363 | MSLT | 1 032747 | R4 | -1000004 | TEND | 002236 | **** | 000626 |
|--------|--------|-------|-----------|--------|----------|--------|--------|--------|--------|
| MSG6 | 025524 | MSLT | 2 033027 | R5 | -1000005 | TENDX | 002272 | TROO | |
| MSG7 | 025543 | MSLT | | SAV1 | 000704 | TEX | | TRO1 | 000630 |
| Mage | 025561 | HSLTE | | SAV2 | 000706 | | 024174 | TR02 | 000632 |
| MSGBA | 025600 | HSLT7 | | SAVS | | TIB | 000616 | TROJ | 000634 |
| MSG9 | 025727 | MTINT | | | 000710 | TINER | 023754 | TR04 | 000636 |
| MSLT1 | 027410 | NRZOF | | SCF | 000732 | TKB | 000574 | TROS | 000640 |
| MSLTIO | 030060 | | | SCOLP | 000712 | TKS | 000572 | TR06 | 000642 |
| MSLT11 | 030133 | OCTP | 024206 | SCOPE | 023374 | TMS1 | 033537 | TRO7 | 000644 |
| MSLT12 | | OCTPE | | SCOPE | | TH810 | 033625 | TRIO | 000646 |
| | 030200 | OCTPE | | SERFL | 000772 | TM811 | 033633 | TR11 | 000650 |
| MSLT13 | 030251 | OCTPG | | SERNUR | 000602 | TM812 | 033641 | TRIZ | 000652 |
| MSLT14 | 030316 | OCTPG | | SETUP | 015712 | TH513 | 033647 | TR13 | 000654 |
| MSLT15 | 030364 | OCTPG | | SETO | 015726 | TH814 | 033655 | TR14 | 000656 |
| MSLT16 | 030432 | OCTPO | 024234 | SET1 | 015732 | TH815 | 033663 | TRIS | 000660 |
| MSLT17 | 030500 | OCTP1 | 024256 | SET2 | 015766 | THELE | 033671 | | |
| MSLT2 | 027464 | OCTP2 | | SKAT | 001014 | TH817 | 033677 | TSCD | 003016 |
| MSLT20 | 030546 | OCTP3 | | SLAF | 000722 | THEIS | 033705 | TSCDe | 002050 |
| MSLT21 | 030625 | OFL | 024432 | SLVN | 000664 | | | TECDI | 002104 |
| MBLT22 | 030661 | OUT | 024550 | 8N | | TM819 | 033713 | TSCD2 | 002116 |
| MSLT23 | 030716 | PATRN | | SNPG | 000540 | TM82 | 033545 | TSCD3 | 002142 |
| HSLT24 | 030760 | PC | =3000007 | | 025136 | TM820 | 033721 | TATTOL | 001066 |
| HSLT25 | 031020 | PCNTR | | SNPT | 025060 | TM821 | 033730 | TTIN | 023772 |
| MSLT26 | 031054 | | | | -1000006 | TH822 | 033736 | TTINT | 023602 |
| MSLT27 | | PDO | 020712 | SPO | 016046 | TM823 | 033745 | TTIN1 | 024012 |
| | 031110 | PD1 | 020726 | SP01 | 016032 | TH824 | 033753 | TTIN2 | 024026 |
| MSLT3 | 027543 | PD3 | 020770 | 8P1 | 016052 | TM825 | 033761 | TTOUT | 024044 |
| MSLT30 | 031144 | PD3 | 020774 | SPIA | 016116 | TM826 | 033767 | TTR | 023606 |
| MSLT31 | 031202 | PD4 | 021004 | 8P18 | 016136 | TM827 | 033775 | TTRO | 023614 |
| MSLT32 | 031236 | PD5 | 021124 | 8P3 | 016206 | TH828 | 034003 | TTRI | 023642 |
| MSLT33 | 031272 | PD6 | 021150 | 8P4 | 016226 | TH829 | 034011 | TTRIA | 023656 |
| MSLT34 | 031326 | PEXFL | 000736 | 8P5 | 016242 | THES | 033553 | | |
| MSLT35 | 031362 | PFLG | 000666 | SSCF | 000724 | THESE | | TTRIB | 023672 |
| MSLT36 | 031424 | POST | 035350 | START | 001414 | TH831 | 034016 | TTR2 | 023730 |
| MSLT37 | 031466 | PPGEN | | STATE | 001012 | | 034024 | TTR3 | 023740 |
| HSLT4 | 027625 | PPGØ | 021540 | STATE | 001004 | TM832 | 034032 | TTR4 | 023750 |
| MSLT40 | 031531 | PPG1 | 021564 | STATIC | | TH833 | 034040 | TTRS | 023752 |
| MSLT41 | 031576 | PRCHK | | | | THESSA | 034046 | TIAD | 001072 |
| MSLT42 | 031645 | PRE | 035226 | STATE | 015212 | TH833B | 034062 | TIIAD | 001074 |
| MSLT43 | 031714 | PREFL | 000770 | STFLG | 000740 | TH834 | 034075 | TIGAD | 001126 |
| HSLT44 | 031762 | PSCHK | | STOP | 025162 | TH835 | 034103 | TIGIAD | 001130 |
| MSLT45 | 032031 | | | STSCD | 002164 | TH836 | 034112 | TIIAD | 001132 |
| MSLT46 | | PSW | 000566 | 810 | 001672 | TM837 | 034120 | TILIAD | 001134 |
| | 032077 | RBUFF | 036104 | 8T1 | 001714 | TM538 | 034126 | TIZAD | 001136 |
| MSLT47 | 032146 | RCDP | 001010 | 812 | 002012 | TH839 | 034134 | TIZIAD | 001140 |
| MSLT5 | 027704 | RDAD | 000762 | SUSWR | 001426 | TH84 | 033560 | TIJAD | 001142 |
| MALTSO | 032214 | RDATA | 034344 | SWR | 000570 | TMSS | 033566 | TIJIAD | 001144 |
| MSLT51 | 032263 | RDRYF | 001006 | SWREG | 000176 | THE | 033575 | T14AD | 001146 |
| MSLT52 | 032331 | RDSW | 024440 | TADX | 001412 | TM87 | 033603 | | |
| MSLT53 | 032402 | REGP | 022332 | TC | 000542 | THSO | 033611 | TIAIAD | 001150 |
| MSLT54 | 032452 | REGS | 000612 | TCRLF | 024076 | TM89 | | TISAD | 001152 |
| MSLT55 | 032533 | RTRN | 000670 | TCRLFA | 024114 | | 033617 | TISIAD | 001154 |
| M<56 | 032612 | RO | =\$000000 | TEMPST | | TOB | 000614 | TIGAD | 001156 |
| MSLT57 | 032657 | R1 | =1000001 | | 024434 | TOG | 024160 | TIGIAD | 001160 |
| MSLT6 | 027750 | R2 | -1000002 | TEMP1 | 000674 | TPB | 000600 | T17AD | 001162 |
| M<68 | 032713 | R3 | | TEMP2 | 000676 | TPS | 000576 | T17IAD | 001164 |
| | | Ka | =1000003 | TEMP3 | 000700 | TREF | 000734 | TZAD | 001076 |
| | | | | | | | | | |

| DETUCE, P11 SYMBOL TABLE | MACY11 27(732) | 10-MAR-76 | 13116 PAGE | 117 | | | |
|--------------------------|----------------|-----------|------------|--------|------------------|--------|--------|
| T21AD 001100 T341A | D 001250 | TS7IAD | 001364 | WCDP2 | 001042 | WMSG6G | 034675 |
| T20AD 001166 T35AD | 001252 | TEAD | 001116 | WC81 | 001020 | WASGEH | |
| T20IAD 001170 T35IA | | TELAD | 001120 | WC82 | 001022 | WMSG61 | 034702 |
| T21AD 001172 T36AD | | TOOAD | 001366 | WDATA | 034144 | WMSGAJ | 034707 |
| T211AD 001174 T361A | | TODIAD | 001370 | WDS | 001024 | WMSGGK | 034714 |
| T22AD 001176 T37AD | | TELAD | 001372 | WER | 001026 | WMSG6L | 034721 |
| T22IAD 001200 T37IA | D 001264 | TELIAD | 001374 | WMSG16 | 034740 | WMSGEM | 034726 |
| T23AD 001202 T4AD | 001106 | TESAD | 001376 | WM8G17 | 034752 | | 034733 |
| T231AD 001204 T41AD | | TESTAD | 001400 | WM8G2 | 034544 | WPGFL | 001000 |
| T24AD 001206 T40AD | | TESAD | 001402 | WMSG20 | 034757 | WATCK | 017126 |
| T24FL 000744 T46IA | | TESTAD | 001404 | WHSG21 | 034764 | Ward | 017274 |
| T24IAD 001210 T41AD | | T64AD | 001406 | WM8G23 | 034772 | WSTGO | 017342 |
| T25AD 001212 T41IA | | T64IAD | 001410 | WM8G24 | 035006 | WSTX | 017414 |
| T25IAD 001214 T42AD | | TTAD | 001122 | WM8G25 | 035024 | WTAD | 000756 |
| T26AD 801216 T43AD | | TTIAD | 001124 | WM8G26 | 035041 | WIDCHK | 021174 |
| T261AD 001220 T44AD | 001306 | UDES | 000776 | WHSG27 | 035060 | WIDO | 021224 |
| T27AD 001222 T45AD | 001312 | VECT | 000610 | WM8G28 | 035073 | WIDOA | 021242 |
| T27IAD 001224 T46AD | 001316 | WAN | 000750 | WH8G29 | 035111 | WIDI | 021250 |
| T3AD 001102 T47AD | 001322 | WAND | 015462 | WMSG3 | | W1D2 | 021326 |
| T31AD 001104 T5AD | 001112 | WAHO1 | 015470 | WM8G31 | 034562 035130 | MIDSA | 021400 |
| T30AD 001226 T5IAD | 001114 | WANI | 015526 | WH8G32 | | W1D3 | 021470 |
| T301AD 001230 T50AD | 001326 | WANS | 015540 | WH8G4 | 035165 034603 | W1D4 | 021502 |
| T31AD 001232 T51AD | 001332 | WAMZA | 015574 | WH&G6 | 034630 | WIDAA | 021512 |
| T311AD 001234 T52AD | 001336 | WAMS | 015604 | WH8G6A | 034636 | WIDS | 021516 |
| T32AD 001236 T53AD | 001342 | WAMSA | 015664 | WM8G6B | 034643 | MSLTC | 000764 |
| T32IAD 001240 T54AD | 001346 | WANDS | 015702 | WH8G6C | 034650 | SCHTG | 035175 |
| T33AD 001242 T55AD | 001352 | WBUFF | 035472 | WM8G6D | 034655 | SHNEW | 035210 |
| T331AD 801244 T56AD | 001356 | WC | 000512 | WM8G6E | 034663 | | 035201 |
| T34AD 801246 T57AD | 001362 | WCDPO | 001054 | WMSG6F | 034670 | SQUEST | 035220 |
| . = 036106 | | | | | 034070 | SREAD | 024552 |

ERRORS DETECTED: 0
DEFAULT GLOBALS GENERATED: 0

*DSKM;DZTUDC,DZTUD/SOL_DSKM;DZTUCE.P11
RUN-TIME: 11 25 2 SECONDS
RUN-TIME RATIO: 184/39=4.6
CORE USED: 7K (13 PAGES)