

EC 826380			PN 2597104
27MAY83			

Printer Symptom Index

MAP 5000-1

5360 Systems Unit

PAGE 1 OF 1

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
No entry in this table			

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
1		5001	A
1		5004	A
1		5036	A

MAP DESCRIPTION:

This is the printer error symptom MAP. It goes to the correct MAP for the symptom indicated.

START CONDITIONS:

None

FRUs TESTED:

None

Select from the following symptoms:

```

*****
*                               | Exit *
*                               | To   *
*                               | MAP  *
*****|*****
* Printer power problems      |5004  *
*-----+-----*
* Cable interlock check      |5036  *
*-----+-----*
* For all other 3262         |      *
* printer error symptoms     |5001  *
*-----+-----*
* Intermittent problems      |0300  *
*-----+-----*
* Printer function           |      *
* test description (MIM 50-430) |None  *
*-----+-----*

```

- If you suspect that the problem is intermittent, run ERAP to aid in isolating the failure (MIM 01-360).

**Printer Entry MAP**

MAP 5001-1

**5360 Systems Unit**

PAGE 1 OF 2

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0101	A	1	001
0199	A	1	001
5000	A	1	001
5036	A	1	001

**EXIT POINTS**

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
2	005	5004	A

**001**

**(Entry Point A)**

Some symptoms of 3262 printer power problems are:  
 The printer fails to power on with system power on.  
 The printer powers on then powers off with system power on.  
 The printer remains powered on with system power off.

**MAP DESCRIPTION:**

This is the printer entry MAP. This MAP aids in determining the correct action to take in diagnosing failures in the printer and the printer attachment.

**START CONDITIONS:**

- The system and printer power are on.
- Ensure that the belt and ribbon are installed and that the forms are loaded in the printer.
  - Check that the throat is closed and the belt cover is fastened tightly.

**FRUs PARTIALLY TESTED:**

A-A2S2 and T2

**Are there any printer power problems indicated?**

Y N

|

**002**

**(Entry Point B)**

Obvious printer problems are:

- The forms are jammed.
- The type belt is broken.
- The ribbon is torn or jammed.
- Unusual noise, smoke or torn paper.

**Are there any obvious printer problems?**

Y N

|

|

|

© Copyright IBM Corp. 1983

15Feb84

PN 2596064

EC 826487

PEC 826380

2 2 2  
A B C

MAP 5001-1

C  
1

**Printer Entry MAP**  
**5360 Systems Unit**

PAGE 2 OF 2

003

(Entry Point C)

Note: You must have a dedicated system to take this path.

Run the printer MDI diagnostics as follows:

- Select mode E.
- Enter FFF0.
- Insert diskette DIAG21.
- Press the Load key.
- Wait for the main menu display and select MDI MAPs.
- When the next screen appears, select the 3252 Printer option.

Note: If a processor check occurs in the MDIs, the correct repair action is to:

- Reseat the cables from board A1 to A2.
- Reseat cards at A-A2S2 and A-A2T2 (printer attachment).

Bad card:

A-A2S2

---or---

A-A2T2 card (printer attachment).

- Check continuity of the channel interface signals from the channel card to the cards at A-A2S2 and A-A2T2 (printer attachment). See pages PS200 and PT200, in FLD Volume C.

If the printer MDI diagnostics have been run, The following information includes suggestions that might aid you in finding a machine problem:

- Use the MAP description and the supplemental column (right column) information in the MAPs to aid you in your analysis of the problem.
- Look at the error log recordings using ERAP. Use the error recording information (01-360) to help analyze the error history table information for the different areas. If the error recording information s (Step 003 continues)

A B  
1 1

MAP 5001-2

(Step 003 continued)  
applicable, go to the MAP indicated. If the error recording information fails to correct the problem, return here.

- If you are satisfied that the system is functioning properly, return it to the customer. If there is still a problem on the system, refer to the General MIM for other testing procedures.
- If the error recording information fails to find the cause of the problem or an error recording does not exist, and the General MIM does not provide any additional tests or procedures to isolate the problem, go to the Intermittent Failure Replacement List MAP (0300).

004

- Record the indicated error or symptom for use in the 3262 Printer Entry MAP.

Go to the 3262 printer entry MAP 0010, Entry Point A.

005

Go To Map 5004, Entry Point A.

15Feb84 PN 2596064

EC 826487 PEC 826380

MAP 5001-2

**Printout Analysis MAP**

MAP 5002-1

**5360 Systems Unit**

PAGE 1 OF 3

**001**

**(Entry Point A)**

- Remove the forms from the printer where you printed the printer function tests and observe the output using this MAP. For a description of the printer function tests, see MIM 50-430.

**MAP DESCRIPTION:**

This MAP will determine if the print transport mechanism is operating correctly. It will also analyze the print quality of the output.

**START CONDITIONS:**

None

**FRUs PARTIALLY TESTED:**

None

Paper clamp problems are not always easy to determine. MAP 5028, Entry Point B will analyze the (-activate paper clamp) circuit and interface line.

**Did the carriage go into forms run away?**

**Y N**



**002**

**Did the carriage space and skip correctly?**

**Y N**



**003**

Go to the 3262 printer entry MAP 0010, Entry Point A.

**004**

The following information will analyze the print quality of the output.

- See printer unit MIM (02-040).

**Is a ribbon problem indicated?**

**Y N**



**005**

**Is the printing smudged?**

**Y N**



**006**

**Is there a horizontal cutoff problem?**

**Y N**



© Copyright IBM Corp. 1983

15Feb84

PN 2596065

EC 826487

PEC 826380

3 3 2 2 2  
A B C D E

MAP 5002-1

E  
1

**Printout Analysis**  
**5360 Systems Unit**

PAGE 2 OF 3

007

Is there a vertical registration problem?

Y N

008

Is there a horizontal registration problem?

Y N

009

Are any print positions missing?

Y N

010

Are the print lines wavy?

Y N

011

This is the end of the printer good machine test path.

If there is still a printer problem  
The following information includes suggestions that might aid you in finding a machine problem:

- Use the MAP description and the supplemental column (right column) information in the MAPs to aid you in your analysis of the problem.
- Look at the error log recordings using ERAP. Use the error recording information (01-360) to help analyze the error history table information for the different areas. If the error recording information is applicable, go to the MAP indicated. If the error recording information fails to correct the problem, return here.
- If you are satisfied that the system is functioning properly, return it to the customer. If there is still a problem on the system, refer to the General MIM for (Step 011 continues)

F G H J

C D F G H J  
1 1

MAP 5002-2

(Step 011 continued)  
other testing procedures.

- If the error recording information fails to find the cause of the problem or an error recording does not exist, and the General MIM does not provide any additional tests or procedures to isolate the problem, go to the Intermittent Failure Replacement List MAP (0300).

012

Go to the 3262 printer entry MAP 0010, Entry Point A.

013

Go to the 3262 printer entry MAP 0010, Entry Point A.

014

Go to the 3262 printer entry MAP 0010, Entry Point A.

015

Go to the 3262 printer entry MAP 0010, Entry Point A.

016

Go to the 3262 printer entry MAP 0010, Entry Point A.

017

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596065  
EC 826487 PEC 826380  
MAP 5002-2

A B  
1 1

**Printout Analysis**

MAP 5002-3

**5360 Systems Unit**

PAGE 3 OF 3

**018**

Go to the 3262 printer entry MAP 0010, Entry Point A.

**019**

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84

PN 2596065

EC 826487

PEC 826380

MAP 5002-3

5360 Systems Unit

PAGE 1 OF 7

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E265	D	3	017
E269	A	1	001
E273	A	1	001
5000	A	1	001
5001	A	1	001
5020	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
5	037	5012	D
6	050	5012	D
6	049	5042	A
4	027	5042	B
6	048	5042	B

001

(Entry Point A)

- Observe and record the condition of the 3262 printer power on indicator (printer console) while performing the following steps:
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode 6.
- Press the Power key (power off).
- Wait for the Power light to go off.

Is the printer Power On indicator on when the system power is off?

Y N

002

- Observe the condition of the 3262 printer Power On indicator (printer console) while performing the following step.
- Press the Power key (power on).

Does the printer Power On indicator light appear when the system is powered on?

Y N

003

Go to Page 5, Step 038, Entry Point B.

MAP DESCRIPTION:

This MAP aids you in determining the cause of the printer power problem.

START CONDITIONS:

The system power is On. The printer unit emergency switch is in the power enable position.

FRUs PARTIALLY TESTED:

A-A2S2, T2 and V2

B  
1

**Printer Power On MAP**

**5360 Systems Unit**

PAGE 2 OF 7

004

Does the printer Power On indicator light appear and remain on?

Y N

005

Go to Page 7, Step 051, Entry Point C.

006

- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE28C which is the Printer Power On Latch Test.

Did the TU return a result byte of 0000?

Y N

007

Did the TU return a result byte of 4000?

Y N

008

Did the TU return a result byte of 8000?

Y N

009

Did the TU return a result byte of C000?

Y N

010

Bad card:

A-A2R2

---or---

A-A2T2

---or---

A-A2S2.

C D E F

MAP 5004-2

011

Bad card:

A-A2T2

---or---

A-A2S2.

012

Bad card:

A-A2S2.

013

Bad card:

A-A2S2.

014

- Set the printer Unit Emergency switch to the Power Off position.

- Select TE28C which is the Printer Power On Latch Test.

Did the TU return a result byte of C000?

Y N

015

Did the TU return a result byte of 0000?

Y N

016

Bad card:

A-A2T2

---or---

A-A2S2

---or---

A-A2R2.

C D E F

4 3  
G H

15Feb84

PN 2596066

EC 826487

PEC 826380

MAP 5004-2

H  
2

**Printer Power On MAP**  
**5360 Systems Unit**

PAGE 3 OF 7

017

**(Entry Point D)**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2J13 (-power complete).

**Are the lights correct?**

Y N

018

Bad card:  
A-A2T2.

019

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2J13 (-power complete).

**Are the lights correct?**

Y N

Vertical lines for Y and N columns.

J K

J K

MAP 5004-3

020

There is a printer power problem.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

021

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2J13 (-power complete).

**Are the lights correct?**

Y N

022

Bad card:  
A-A2S2.

Vertical lines for Y and N columns.

4  
L

15Feb84

PN 2596066

EC 826487

PEC 826380

MAP 5004-3

A G L  
1 2 3

## Printer Power On MAP

### 5360 Systems Unit

PAGE 4 OF 7

023

Bad cable at location A-A2V2

---or---

Bad -power complete net on I/O board A2 (FLD Page PT200).

024

- Look at the error log recording using ERAP. Use the error recording information (01-360) to analyze the error recording information for the 3262 printer.

Does the error log indicate that a Thermal Check 1 has occurred?

Y N

025

Does the error log indicate that a Thermal Check 2 has occurred?

Y N

026

Bad card:

A-A2T2

---or---

A-A2S2.

027

Go To Map 5042, Entry Point B.

028

Go to the 3262 printer entry MAP 0010, Entry Point A.

029

Is the CE-Mode Function indicator light on (yellow indicator located below the green Ready indicator on the printer console)?

Y N

5  
M N

N

MAP 5004-4

030

- Remove the 3262 printer attachment card at A-A2T2.  
Is the printer Power On indicator on (system power is off)?

Y N

031

Bad card:

A-A2T2.

032

- Remove the 3262 printer attachment card at A-A2S2.  
Is the printer Power On indicator on (system power is off)?

Y N

033

Bad card:

A-A2S2.

034

- Leave the printer Unit Emergency switch in the Power Enable position.

- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (MIM 50-230).

Is the printer Power On indicator on?

Y N

035

Bad cable at location A-A2V2

---or---

Bad -printer power on net on I/O board A2 (FLD Page PS200).

5  
P

15Feb84

PN 2596066

EC 826487

PEC 826380

MAP 5004-4

5360 Systems Unit

PAGE 5 OF 7

036

- Set the printer Unit Emergency switch to the Power Off position.

The -printer power on interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

037

The printer appears to be in CE-Mode.

Go To Map 5012, Entry Point D.

038

(Entry Point B)

Is the CE-Mode Function indicator light on (yellow indicator located below the green Ready indicator on the printer console)?

Y N

039

- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE262 which is the Printer Sense Test.

Did the TU return a result byte of x800 (Thermal Check 1)?

Y N

040

- Select TE265 which is the Switch Reg Sense Test.

Did the TU return a result byte of 0400 (Thermal Check 2)?

Y N

041

- Select mode 6.
- Press the Power key (power off).
- Check for an unseated card at A-A2T2, and unseated cables at locations:  
A-A2V2  
Printer cable 1 (blue), system cable tower (50-230).
- Press the Power key (power on).

Did the Power On indicator (printer console) appear and remain On?

Y N

6 6 6 6 6  
Q R S T U

15Feb84 PN 2596066

EC 826487 PEC 826380

MAP 5004-5

U  
5

# Printer Power On MAP

## 5360 Systems Unit

PAGE 6 OF 7

042

Probe A-A2T2J12 (-printer power on).

Gating used:

- Set probe switches.
- Gate Ref to +1.4 V.
- Latch to Down.

- Select mode 4.
- Press the System Reset key.

Up Light: Ignore  
Down Light: On

Are the lights correct?

Y N

043

Bad card:  
A-A2T2.

044

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between cable socket 3 pin B02 and A-A2T2J12 (-printer power on).

Was continuity OK?

Y N

045

Bad cable at location A-A2V2  
---or---  
Bad -printer power on net on I/O board A2 (FLD Page PT200).

Q R S T V  
5 5 5 5

MAP 5004-6

046

There is a printer power problem.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

047

The printer power problem is repaired.

048

Go To Map 5042, Entry Point B.

049

Go To Map 5042, Entry Point A.

050

The printer appears to be in CE-Mode.

Go To Map 5012, Entry Point D.

V

15Feb84 PN 2596066

EC 826487 PEC 826380

MAP 5004-6

**Printer Power On MAP**

**5360 Systems Unit**

PAGE 7 OF 7

**051**

**(Entry Point C)**

Probe A-A2TJ13 (-power complete)

Gating used:

- Set probe switches.
- Gate Ref to +1.4 V.
- Latch to Down.
  
- Select mode 4.
- Press the System Reset key.

Up Light: Ignore

Down Light: On

**Are the lights correct?**

**Y N**

**052**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between cable socket 3 pin B08 and A-A2T2J13 (-power complete).

**Was continuity OK?**

**Y N**

**053**

Bad cable at location A-A2V2

---or---

Bad -power complete net on I/O board A2 (FLD Page PT200).

**W X**

MAP 5004-7

**054**

The -power complete interface line is not at the expected level..

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**055**

Bad card:

A-A2T2.

**W X**

15Feb84 PN 2596066

EC 826487 PEC 826380

MAP 5004-7

**Printer Controller MAP**

MAP 5006-1

**5360 Systems Unit**

PAGE 1 OF 5

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E251	A	1	001
E251	D	5	026
E253	A	1	001
E259	A	1	001
E261	A	1	001
E269	A	1	001
E273	A	1	001

**EXIT POINTS**

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
4	025	0599	B

**001**

**(Entry Point A)**

- Ensure that the four top card connectors are correctly seated over the cards at A-A2R2, S2 and T2 (MIM 50-220).

The top card connectors in the W and X positions are different from those in the Y and Z positions.

**MAP DESCRIPTION:**

This is the printer controller error MAP.

**START CONDITIONS:**

The system and printer power are on.

- Ensure that the belt and ribbon are installed and that the forms are loaded in the printer.
- Check that the throat is closed and the belt cover is fastened tightly.

**FRUs PARTIALLY TESTED:**

A-A2R2, S2, T2, A1Z3, A1L2 or A1N2, A1M2

Are the four top card connectors installed correctly?

Y N

--	--

2 2  
A B

A B  
1 1

**Prtr Cntrl MAP**  
**5360 Systems Unit**

MAP 5006-2

PAGE 2 OF 5

**002**

- Select mode 6.
- Press the Power key (power off).
- Reseat the top card connectors between A-A2F12, A-A2S2 and A-A2T2.
- Press the Power key (power on).
- Select mode E.
- Enter FFF0.
- Insert diskette DIAG21.
- Press the Load key.
- Wait for the main menu display and select MDI MAPs.
- When the next screen appears, select the 3262 Printer option.
- Run the 3262 printer MDIs to verify the fix.

**003**

- Select mode 6.
- Press the Power key (power off).
- Remove top card connectors between A-A2R2, S2 and T2.
- Inspect each one for bent or broken pins.

**Are the top card connector pins OK?**

Y N

**004**

Bad top card connector.

**005**

- Reinstall top card connectors between A-A2R2, S2 and T2 logic cards.

Note: - Ensure that the 3262 printer attachment top card connectors are in the correct positions (50-220).

- Press the Power key (power on).
- Measure the voltages of the following Pins:

Pin	Minimum	Nominal
A2R2D03	+4.55V	(+5V)
A2S2D03	+4.55V	(+5V)
A2T2D03	+4.55V	(+5V)
A2R2S11	+7.68V	(+8.5V)
A2T2S11	+7.68V	(+8.5V)

(Step 005 continues)

(Step 005 continued)

**Are any of the voltages missing or less than the minimum voltage?**

Y N

**006**

Note: - Do not use the extension cable while probing 16 mhz signal.

- Probe the following:

Up Light: On or flashing  
Down Light: On or flashing

A-A2R2J02 (+16 mhz oscillator).

**Are the lights correct?**

Y N

**007**

Note: - Do not use the extension cable while probing 16 mhz signal.

- Probe the following:

Up Light: On or flashing  
Down Light: On or flashing

A-A2S2M05 (+16 mhz oscillator).

**Are the lights correct?**

Y N

**008**

Note: - Do not use the extension cable while probing 16 mhz signal.

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2R2.
- Press the Power key (power on).
- Probe the following:

Up Light: On or flashing  
Down Light: On or flashing

A-A2S2M05 (+16 mhz oscillator).

(Step 008 continues)

15Feb83 PN 2596067

EC 826487 PEC 826380

MAP 5006-2

4 3 3  
C D E

D E  
2 2

**Prtr Cntrl MAP**  
**5360 Systems Unit**

PAGE 3 OF 5

(Step 008 continued)  
**Are the lights correct?**

Y N

**009**

Bad card:  
A-A2S2.

**010**

Bad card:  
A-A2R2.

**011**

Bad +16 mhz oscillator net on I/O board A2 (FLD  
Page PS200).

**012**

**(Entry Point B)**

- Probe the following:

Up Light: On or flashing

Down Light: On or flashing

A-A2S2G07 (+131 msec clock).

**Are the lights correct?**

Y N

**013**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at  
A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: On or flashing

Down Light: On or flashing

A-A2S2G07 (+131 msec clock).

**Are the lights correct?**

Y N

F G H

F G H

MAP 5006-3

**014**

**Is there a card in location A-A1L2?**

Y N

**015**

+131 msec clock line is bad.

Bad card:

A1N2

---or---

Bad cable:

A1Z3.

**016**

+131 msec clock line is bad.

Bad card:

A1L2

---or---

Bad cable:

A1Z3.

**017**

Bad card:

A-A2S2.

**018**

**(Entry Point C)**

- Probe the following:

Up Light: On or flashing

Down Light: On or flashing

A-A2S2J12 (+512 usec clock).

**Are the lights correct?**

Y N

4 4  
J K

15Feb83

PN 2596067

EC 826487

PEC 826380

MAP 5006-3

K  
3

**Prtr Cntrl MAP**  
**5360 Systems Unit**  
PAGE 4 OF 5

C J  
2 3

MAP 5006-4

**019**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: On or flashing  
Down Light: On or flashing

A-A2S2J12 (+512 usec clock).

**Are the lights correct?**

Y N

**020**

**Is there a card in location A-A1L2?**

Y N

**021**

+512 Usec clock is bad.

Bad card:

A1N2

A1M2

---or---

Bad cable:

A1Z3.

**022**

+512 Usec clock is bad.

Bad card:

A1L2

---or---

Bad cable:

A1Z3.

**023**

Bad card:

A-A2S2.

**024**

Bad card:

A-A2R2

---or---

A-A2S2

---or---

A-A2T2.

**025**

**Go To Map 0599, Entry Point B.**

15Feb83 PN 2596067

EC 826487 PEC 826380

MAP 5006-4

**Prtr Cntrl MAP**  
**5360 Systems Unit**

MAP 5006-5

PAGE 5 OF 5

**026**

**(Entry Point D)**

A processor check occurred while running the 3262 printer MDIs.

- Complete the following repair actions until the problem is fixed:
  - Reseat the cables from board A1 to A2.
  - Reseat cards at A-A2S2 and A-A2T2 (printer attachment).

Bad card:

A2S2

---or---

A2T2.

- Check continuity of the channel interface signals from the channel card to the cards at A2S2 and A2T2 (FLD PS200 and PT200).
- Return to the system entry MAP to repair the cause of the processor check.

15Feb83      PN 2596067  
EC 826487    PEC 826380  
MAP 5006-5

# Printer Console Light MAP

MAP 5008-1

## 5360 Systems Unit

PAGE 1 OF 7

### ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E257	A	1	001
E257	B	3	012
E257	C	4	023
E257	D	6	034

#### 001

##### (Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin D09 and cable socket 2 pin B08 (G08 for 2 wide connectors/sockets ) (-check indicator jumpered to -impression control single shot).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D8.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y N

#### 002

- Continue to loop on test TE2D8.

Do results = 4000?

Y N

2 2 2  
A B C

#### MAP DESCRIPTION:

This is the printer console light error MAP.

This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

#### START CONDITIONS:

The system and printer power are on.

- Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
- Check that the throat and belt covers are closed.

Jumper PN 5785274 required.

#### FRUs PARTIALLY TESTED:

A-A2S2  
Board wiring  
System cables

© Copyright IBM Corp. 1983

15Feb84 PN 2596068

EC 826487 PEC 826380

MAP 5008-1

B C  
1 1

## Console Light MAP

### 5360 Systems Unit

PAGE 2 OF 7

**003**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off

Down Light: On

A-A2S2S02 (-check indicator).

**Are the lights correct?**

Y N

**004**

Bad card:  
A-A2S2.

**005**

Bad cable at location A-A2V2

---or---

Bad -check indicator net on I/O board A2 (FLD Page PS200).

**006**

- Continue to loop on test TE2D8.
- Remove the jumper.
- Install jumper between A-A2V2D09 and A-A2V3B08 (-check indicator jumpered to -impression control single shot).

**Do results = 4000?**

Y N

**007**

Bad cable at location A-A2V2.

A D  
1 1

MAP 5008-2

**008**

- Continue to loop on test TE2D8.
- Remove the jumper.
- Install jumper between A-A2S2S02 and A-A2V3B08 (-check indicator jumpered to -impression control single shot).

**Do results = 4000?**

Y N

**009**

Bad -check indicator net on I/O board A2 (FLD Page PS200).

**010**

Bad card:  
A-A2S2.

**011**

The -check indicator interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596068

EC 826487 PEC 826380

MAP 5008-2

D

**Console Light MAP**

**5360 Systems Unit**

PAGE 3 OF 7

**012**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin D12 and cable socket 2 pin B03 (G03 for 2 wide connectors/sockets ) (-forms indicator jumpered to -print subscans).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D7.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**013**

- Continue to loop on test TE2D7.

**Do results = 4000?**

**Y N**

**014**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 014 continues)

**F**

MAP 5008-3

(Step 014 continued)  
A-A2S2U02 (-forms indicator).

**Are the lights correct?**

**Y N**

**015**

Bad card:  
A-A2S2.

**016**

Bad cable at location A-A2V2

---or---

Bad -forms indicator net on I/O board A2 (FLD  
Page PS200).

**017**

- Continue to loop on test TE2D7.
- Remove the jumper.
- Install jumper between A-A2V2D12 and A-A2V3B03 (-forms indicator jumpered to -print subscans).

**Do results = 4000?**

**Y N**

**018**

Bad cable at location A-A2V2.

**019**

- Continue to loop on test TE2D7.
- Remove the jumper.
- Install jumper between A-A2S2U02 and A-A2V3B03 (-forms indicator jumpered to -print subscans).

**Do results = 4000?**

**Y N**

**020**

Bad -forms indicator net on I/O board A2 (FLD  
Page PS200).

**021**

Bad card:  
A-A2S2.

**Console Light MAP**  
**5360 Systems Unit**

MAP 5008-4

PAGE 4 OF 7

**022**

The -forms indicator interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**023****(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin D13 and cable socket 2 pin D11 (J11 for 2 wide connectors/sockets ) (-ready indicator jumpered to -home).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D9.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**024**

- Continue to loop on test TE2D9.

**Do results = 4000?**

**Y N**

**025**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 025 continues)

15Feb84 PN 2596068

EC 826487 PEC 826380

5 5  
G H

MAP 5008-4

H  
4

**Console Light MAP  
5360 Systems Unit**

PAGE 5 OF 7

(Step 025 continued)  
A-A2S2S03 (-ready indicator).

**Are the lights correct?**

Y N

**026**

Bad card:  
A-A2S2.

**027**

Bad cable at location A-A2V2

---or---

Bad -ready indicator net on I/O board A2 (FLD  
Page PS200).

**028**

- Continue to loop on test TE2D9.
- Remove the jumper.
- Install jumper between A-A2V2D13 and A-A2V3D11  
(-ready indicator jumpered to -home).

**Do results = 4000?**

Y N

**029**

Bad cable at location A-A2V2.

**030**

- Continue to loop on test TE2D9.
- Remove the jumper.
- Install jumper between A-A2S2S03 and A-A2V3D11  
(-ready indicator jumpered to -home).

**Do results = 4000?**

Y N

**031**

Bad -ready indicator net on I/O board A2 (FLD  
Page PS200).

**032**

Bad card:  
A-A2S2.

G  
4

MAP 5008-5

**033**

The -ready indicator interface line is not at the  
expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the  
3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power  
Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional  
microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596068

EC 826487 PEC 826380

MAP 5008-5

**Console Light MAP**

**5360 Systems Unit**

PAGE 6 OF 7

**034**

**(Entry Point D)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin D11 and cable socket 3 pin B08 (-interlock indicator jumpered to -power complete).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D3.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**035**

- Continue to loop on test TE2D3.

**Do results = 4000?**

**Y N**

**036**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2M13 (-interlock indicator).  
(Step 036 continues)

**K**

MAP 5008-6

(Step 036 continued)

**Are the lights correct?**

**Y N**

**037**

Bad card:  
A-A2S2.

**038**

Bad cable at location A-A2V2

---or---

Bad -interlock indicator net on I/O board A2 (FLD Page PS200).

**039**

- Continue to loop on test TE2D3.
- Remove the jumper.
- Install jumper between A-A2V2D11 and B08 (-interlock indicator jumpered to -power complete).

**Do results = 4000?**

**Y N**

**040**

Bad cable at location A-A2V2.

**041**

- Continue to loop on test TE2D3.
- Remove the jumper.
- Install jumper between A-A2S2M13 and A-A2V2B08 (-interlock indicator jumpered to -power complete).

**Do results = 4000?**

**Y N**

**042**

Bad -interlock indicator net on I/O board A2 (FLD Page PS200).

**043**

Bad card:  
A-A2S2.

15Feb84

PN 2596068

EC 826487

PEC 826380

MAP 5008-6

**044**

The -interlock indicator interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

# Printer Console Key Error MAP

MAP 5010-1

## 5360 Systems Unit

PAGE 1 OF 7

### ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E267	A	1	001
E267	B	3	012
E267	C	4	023
E267	D	6	034
E275	A	1	001
E275	B	3	012
E275	C	4	023
E275	D	6	034

#### 001

##### (Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin B05 and cable socket 1 pin D10 (-Carriage Space key jumpered to -fire tier 2).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E5.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y	N

2	2
A	B

#### MAP DESCRIPTION:

This is the printer console key error MAP. This MAP finds the failing FRU or goes to the correct 3262 Printer MAP if necessary.

#### START CONDITIONS:

The system and printer power are on.

- Ensure that the type belt and the ribbon are installed and that the forms are loaded in the printer.
  - Check that the throat and belt covers are closed.
- Jumper PN 5785274 required.

#### FRUs PARTIALLY TESTED:

A-A2S2  
 Board wiring  
 I/O cables  
 Printer cable

© Copyright IBM Corp. 1983

15Feb84 PN 2596069

EC 826487 PEC 826380

MAP 5010-1

B  
1

**Console Key Error MAP**  
**5360 Systems Unit**

PAGE 2 OF 7

002

- Continue to loop on test TE2E5.

**Do results = 4000?**

Y N

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2S12 (-Carriage Space key).

**Are the lights correct?**

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V2

---or---

Bad -Carriage Space key net on I/O board A2 (FLD Page PS200).

006

- Continue to loop on test TE2E5.
- Remove the jumper.
- Install jumper between A-A2V2B05 and A-A2V4D10 (-Carriage Space key jumpered to -fire tier 2).

**Do results = 4000?**

Y N

007

Bad cable at location A-A2V2.

C

A C  
1

MAP 5010-2

008

- Continue to loop on test TE2E5.
- Remove the jumper.
- Install jumper between A-A2S2S12 and A-A2V4D10 (-Carriage Space key jumpered to -fire tier 2).

**Do results = 4000?**

Y N

009

Bad -Carriage Space key net on I/O board A2 (FLD Page PS200).

010

Bad card:  
A-A2S2.

011

The -Carriage Space key interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596069

EC 826487 PEC 826380

MAP 5010-2

**Console Key Error MAP**

**5360 Systems Unit**

PAGE 3 OF 7

**012**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin D10 and cable socket 1 pin D11 (-Ready key jumpered to -fire tier 3).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E6.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**013**

- Continue to loop on test TE2E6.

**Do results = 4000?**

**Y N**

**014**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2P11 (-Ready key).  
(Step 014 continues)

**E**

MAP 5010-3

(Step 014 continued)

**Are the lights correct?**

**Y N**

**015**

Bad card:  
A-A2S2.

**016**

Bad cable at location A-A2V2

---or---

Bad -Ready key net on I/O board A2 (FLD Page PS200).

**017**

- Continue to loop on test TE2E6.
- Remove the jumper.
- Install jumper between A-A2V2D10 and A-A2V4D11 (-Ready key jumpered to -fire tier 3).

**Do results = 4000?**

**Y N**

**018**

Bad cable at location A-A2V2.

**019**

- Continue to loop on test TE2E6.
- Remove the jumper.
- Install jumper between A-A2S2P11 and A-A2V4D11 (-Ready key jumpered to -fire tier 3).

**Do results = 4000?**

**Y N**

**020**

Bad -Ready key net on I/O board A2 (FLD Page PS200).

**021**

Bad card:  
A-A2S2.

**022**

The -Ready key interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**023****(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin B12 and cable socket 1 pin D12 (-Stop/Reset key jumpered to -fire tier 4).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E7.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N

**024**

- Continue to loop on test TE2E7.

**Do results = 4000?**

Y N

**025**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2P12 (-Stop/Reset key).  
(Step 025 continues)

15Feb84 PN 2596069

EC 826487 PEC 826380

MAP 5010-4

G  
4

**Console Key Error MAP**  
**5360 Systems Unit**

PAGE 5 OF 7

(Step 025 continued)  
**Are the lights correct?**

Y N

**026**

Bad card:  
A-A2S2.

**027**

Bad cable at location A-A2V2

---or---

Bad -Stop/Reset key net on I/O board A2 (FLD  
Page PS200).

**028**

- Continue to loop on test TE2E7.
- Remove the jumper.
- Install jumper between A-A2V2B12 and A-A2V4D12  
(-Stop/Reset key jumpered to -fire tier 4).

**Do results = 4000?**

Y N

**029**

Bad cable at location A-A2V2.

**030**

- Continue to loop on test TE2E7.
- Remove the jumper.
- Install jumper between A-A2S2P12 and A-A2V4D12  
(-Stop/Reset key jumpered to -fire tier 4).

**Do results = 4000?**

Y N

**031**

Bad -Stop/Reset key net on I/O board A2 (FLD  
Page PS200).

**032**

Bad card:  
A-A2S2.

F  
4

MAP 5010-5

**033**

The -Stop/Reset key interface line is not at the  
expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the  
3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power  
Enable position.
- Select mode E.
- Enter FFOO.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional  
microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596069

EC 826487 PEC 826380

MAP 5010-5

**Console Key Error MAP**

**5360 Systems Unit**

PAGE 6 OF 7

**034**

**(Entry Point D)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin B06 and cable socket 1 pin D13 (-Carriage Restore key jumpered to -fire tier 5).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E8.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**035**

- Continue to loop on test TE2E8.

**Do results = 4000?**

**Y N**

**036**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off

Down Light: On

A-A2S2S13 (-Carriage Restore key).

(Step 036 continues)

**J**

MAP 5010-6

(Step 036 continued)

**Are the lights correct?**

**Y N**

**037**

Bad card:  
A-A2S2.

**038**

Bad cable at location A-A2V2

---or---

Bad -Carriage Restore key net on I/O board A2  
(FLD Page PS200).

**039**

- Continue to loop on test TE2E8.
- Remove the jumper.
- Install jumper between A-A2V2B06 and A-A2V4D13 (-Carriage Restore key jumpered to -fire tier 5).

**Do results = 4000?**

**Y N**

**040**

Bad cable at location A-A2V2.

**041**

- Continue to loop on test TE2E8.
- Remove the jumper.
- Install jumper between A-A2S2S13 and A-A2V4D13 (-Carriage Restore key jumpered to -fire tier 5).

**Do results = 4000?**

**Y N**

**042**

Bad -Carriage Restore key net on I/O board A2  
(FLD Page PS200).

**043**

Bad card:  
A-A2S2.

15Feb84

PN 2596069

EC 826487

PEC 826380

MAP 5010-6

7  
H J

**044**

The -Carriage Restore key interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

5360 Systems Unit

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E265	A	1	001
E265	B	3	012
E265	C	4	023
E273	D	6	034
E283	B	3	012
E283	D	6	034
5004	D	6	034

001

(Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
  - Select mode 6.
  - Press the Power key (power off).
  - Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
  - Install jumper between printer cable socket 3 pin B11 and cable socket 3 pin B02 (-carriage 8LPI jumpered to -printer power on).
  - Press the Power key (power on).
  - Select mode E.
  - Enter FF00.
  - Insert diskette DIAG21.
  - Press the Load key.
  - Select the TU select option.
  - Select the 3262 printer option.
  - Select TE2D5.
- The TU description should be displayed.
- Press the Enter key (system console).
  - Select option 2 (loop on test displaying results).

Do results = 0000?

Y N  
 | |  
 | |

2 2  
 A B

MAP DESCRIPTION:

This is the printer control switch and CE switch error MAP. This MAP finds the failing FRU or goes to the 3262 printer entry MAP.

START CONDITIONS:

- System and printer power are on.
- Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
  - Check that the throat and belt covers are closed.
- Jumper PN 5785274 required.

FRUs PARTIALLY TESTED:

- A-A2S2
- Board wiring
- System cables

B  
1

### Control Switch MAP

#### 5360 Systems Unit

PAGE 2 OF 7

002

- Continue to loop on test TE2D5.

Do results = 4000?

Y N

003

- Remove the jumper.
- Press the ATTN key to stop the test loop.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2S09 (-carriage 8LPI).

Are the lights correct?

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V2  
---or---  
Bad -carriage 8LPI net on I/O board A2 (FLD Page PS200).

006

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Install jumper between A-A2V2B11 and A-A2V2B02 (-carriage 8LPI jumpered to -printer power on).
- Select option 1 (Execute test, Display & Stop)

Do results = 4000?

Y N

007

Bad cable at location A-A2V2.

C

A C  
1

MAP 5012-2

008

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Install jumper between A-A2S2S09 and A-A2V2B02 (-carriage 8LPI jumpered to -printer power on).
- Loop on test TE2D5.

Do results = 4000?

Y N

009

Bad -carriage 8LPI net on I/O board A2 (FLD Page PS200).

010

Bad card:  
A-A2S2.

011

The -carriage 8LPI interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596070

EC 826487 PEC 826380

MAP 5012-2

## Control Switch MAP

### 5360 Systems Unit

PAGE 3 OF 7

012

#### (Entry Point B)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B02 (G02 for 2 wide connectors/sockets ) and cable socket 2 pin D06 (J06 for 2 wide connectors/sockets ) (+end of forms jumpered to +POR (power on reset)).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- select TE2DA.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N

013

- Continue to loop on test TE2DA.

**Do results = 4000?**

Y N

014

- Remove the jumper.
- Press the ATTN key to stop the test loop.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 014 continues)

E

MAP 5012-3

(Step 014 continued)  
A-A2S2S08 (+end of forms).

**Are the lights correct?**

Y N

015

Bad card:  
A-A2S2.

016

Bad cable at location A-A2V3

---or---

Bad +end of forms net on I/O board A2 (FLD Page PS200).

017

- Continue to loop on test TE2DA.
- Remove the jumper.
- Install jumper between A-A2V3B02 and D06 (+end of forms jumpered to +POR (power on reset)).

**Do results = 4000?**

Y N

018

Bad cable at location A-A2V3.

019

- Continue to loop on test TE2DA.
- Remove the jumper.
- Install jumper between A-A2S2S08 and A-A2V3D06 (+end of forms jumpered to +POR (power on reset)).

**Do results = 4000?**

Y N

020

Bad +end of forms net on I/O board A2 (FLD Page PS200).

021

Bad card:  
A-A2S2.

**022**

The +end of forms interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**023****(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B04 and (G04 for 2 wide connectors/sockets ) and cable socket 1 pin B04 (-throat closed jumpered to -data bit 2).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2DD.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**024**

- Continue to loop on test TE2DD.

**Do results = 8400?**

**Y N**

**025**

- Remove the jumper.
- Press the ATTN key to stop the test loop.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 025 continues)

15Feb84 PN 2596070

EC 826487 PEC 826380

MAP 5012-4

G  
4

**Control Switch MAP**  
**5360 Systems Unit**

PAGE 5 OF 7

(Step 025 continued)  
A-A2S2M03 (-throat closed).

**Are the lights correct?**

**Y N**

**026**

Bad card:  
A-A2S2.

**027**

Bad cable at location A-A2V3

---or---

Bad -throat closed net on I/O board A2 (FLD Page PS200).

**028**

- Continue to loop on test TE2DD.
- Remove the jumper.
- Install jumper between A-A2V3B04 and A-A2V4B04 (-throat closed jumpered to -data bit 2).

**Do results = 8400?**

**Y N**

**029**

Bad cable at location A-A2V3.

**030**

- Continue to loop on test TE2DD.
- Remove the jumper.
- Install jumper between A-A2S2M03 and A-A2V4B04 (-throat closed jumpered to -data bit 2).

**Do results = 8400?**

**Y N**

**031**

Bad -throat closed net on I/O board A2 (FLD Page PS200).

**032**

Bad card:  
A-A2S2.

F  
4

MAP 5012-5

**033**

The -throat closed interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84

PN 2596070

EC 826487

PEC 826380

MAP 5012-5

**Control Switch MAP**

**5360 Systems Unit**

PAGE 6 OF 7

**034**

**(Entry Point D)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B11 (G11 for 2 wide connectors/sockets ) and cable socket 1 pin D09 (-CE switch on jumpered to -fire tier 1).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E4.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**035**

- Continue to loop on test TE2E4.

**Do results = 4000?**

**Y N**

**036**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 036 continues)

**J**

MAP 5012-6

(Step 036 continued)  
A-A2S2B11 (-CE switch on).

**Are the lights correct?**

**Y N**

**037**

Bad card:  
A-A2S2.

**038**

Bad cable at location A-A2V3

---or---

Bad -CE switch on net on I/O board A2 (FLD Page PS200).

**039**

- Continue to loop on test TE2E4.
- Remove the jumper.
- Install jumper between A-A2V3B11 and A-A2V4D09 (-CE switch on jumpered to -fire tier 1).

**Do results = 4000?**

**Y N**

**040**

Bad cable at location A-A2V3.

**041**

- Continue to loop on test TE2E4.
- Remove the jumper.
- Install jumper between A-A2S2B11 and A-A2V4D09 (-CE switch on jumpered to -fire tier 1).

**Do results = 4000?**

**Y N**

**042**

Bad -CE switch on net on I/O board A2 (FLD Page PS200).

**043**

Bad card:  
A-A2S2.

15Feb84

PN 2596070

EC 826487

PEC 826380

MAP 5012-6

**Control Switch MAP****5360 Systems Unit**

PAGE 7 OF 7

**044**

The -CE switch on interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**Printer Belt Go Error MAP**

MAP 5014-1

**5360 Systems Unit**

PAGE 1 OF 5

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
M259	A	1	001
M285	A	1	001

**001**

**(Entry Point A)**

- Probe the following:

Up Light: Off  
Down Light: Off

A-A2S2M02 (-belt go).

**MAP DESCRIPTION:**

This is the printer -belt go error MAP.

This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

**START CONDITIONS:**

The system and printer power are on.  
- Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.  
- Check that the throat and belt covers are closed.  
Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

A-A2S2  
Board wiring  
System cables

**Are the lights correct?**

Y N

**002**

- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2M02 (-belt go).

**Are the lights correct?**

Y N

4 4 2  
A B C

© Copyright IBM Corp. 1983

15Feb84 PN 2596071

EC 826487 PEC 826380

MAP 5014-1

C  
1

**Printer Belt Go Error MAP**

**5360 Systems Unit**

PAGE 2 OF 5

003

- Run TU Select and loop on diagnostic test TE276.
- Probe the following:

Up Light: Off  
Down Light: Flashing

A-A2S2M02 (-belt go).

**Are the lights correct?**

Y N

004

- Press the ATTN key to stop the test loop.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2M02 (-belt go).

**Are the lights correct?**

Y N

005

- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2M02 (-belt go).

**Are the lights correct?**

Y N

4 4 3  
D E F G

G

MAP 5014-2

006

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between printer cable socket 2 pin D12 (J12 for 2 wide connectors/sockets) and A-A2S2M02 (-belt go).

**Was continuity OK?**

Y N

007

Bad cable at location A-A2V3

---or---

Bad -belt go net on I/O board A2 (FLD Page PS200).

008

The -belt go interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596071

EC 826487 PEC 826380

MAP 5014-2

## 5360 Systems Unit

PAGE 3 OF 5

## 009

- Set the printer Unit Emergency switch to the Power Off position.
- Leave the system power on.
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2M02 (-belt go).

Are the lights correct?

Y N

## 010

The -belt go interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

## 011

Bad cable at location A-A2V3

---or---

Bad -belt go net on I/O board A2 (FLD Page PS200).

A B D E  
1 1 2 2

## Printer Belt Go Error MAP

MAP 5014-4

### 5360 Systems Unit

PAGE 4 OF 5

012

Bad card:  
A-A2S2.

013

- Press the ATTN key to stop the test loop.

**Go to Step 017, Entry Point B.**

014

- Run TU Select and loop on diagnostic test TE:276.  
- Probe the following:

Note: - Observe the probe for several seconds.

Up Light: On or flashing  
Down Light: On or flashing

A-A2S2M02 (-belt go).

**Are the lights correct?**

Y N

015

- Press the ATTN key to stop the test loop.

Bad card:  
A-A2S2.

016

- Press the ATTN key to stop the test loop.

**Go to Step 017, Entry Point B.**

017

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between printer cable socket 2 pin D12 (J12 for 2 wide connectors/sockets) and A-A2S2M02 (-belt go).

**Was continuity OK?**

Y N

5 5  
H J

15Feb84 PN 2596071

EC 826487 PEC 826380

MAP 5014-4

H J  
4 4

## Printer Belt Go Error MAP

MAP 5014-5

### 5360 Systems Unit

PAGE 5 OF 5

#### 018

Bad cable at location A-A2V3

---or---

Bad -belt go net on I/O board A2 (FLD Page PS200).

#### 019

The -belt go interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FFO0.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84

PN 2596071

EC 826487

PEC 826380

MAP 5014-5

**5360 Systems Unit**

PAGE 1 OF 6

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E281	A	1	001
E281	C	4	023
E283	B	3	012
E297	C	4	023

**001**

**(Entry Point A)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin D13 (J13 for 2 wide connectors/sockets ) and cable socket 1 pin D07 (-printer busy jumpered to -hammer sample).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D4.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N



**002**

- Continue to loop on test TE2D4.

**Do results = 4000?**

Y N



2 2 2  
A B C

**MAP DESCRIPTION:**

This is the printer belt up to speed, ribbon check and printer busy error test MAP.

This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

**START CONDITIONS:**

- The system and printer power are on.
  - Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
  - Check that the throat and belt covers are closed.
- Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

- A-A2S2
- Board wiring
- System cables

B C  
1 1

## UTSPD-Rib Test MAP

### 5360 Systems Unit

PAGE 2 OF 6

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2P13 (-printer busy).

Are the lights correct?

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V3

---or---

Bad -printer busy net on I/O board A2 (FLD Page PS200).

006

- Continue to loop on test TE2D4.
- Remove the jumper.
- Install jumper between A-A2V3D13 and A-A2V4D07 (-printer busy jumpered to -hammer sample).

Do results = 4000?

Y N

007

Bad cable at location A-A2V2.

A D  
1 1

MAP 5016-2

008

- Continue to loop on test TE2D4.
- Remove the jumper.
- Install jumper between A-A2S2P13 and A-A2V4D07 (-printer busy jumpered to -hammer sample).

Do results = 4000?

Y N

009

Bad -printer busy net on I/O board A2 (FLD Page PS200).

010

Bad card:  
A-A2S2.

011

The -printer busy interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596072

EC 826487 PEC 826380

MAP 5016-2

D

**UTSPD-Rib Test MAP**

**5360 Systems Unit**

PAGE 3 OF 6

**012**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B09 (G09 for 2 wide connectors/sockets ) and cable socket 1 pin B06 (-ribbon check jumpered to -data bit 4).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2DF.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**013**

- Continue to loop on test TE2DF.

**Do results = 8400?**

**Y N**

**014**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 014 continues)

**F**

MAP 5016-3

(Step 014 continued)  
A-A2S2G08 (-ribbon check).

**Are the lights correct?**

**Y N**

**015**

Bad card:  
A-A2S2.

**016**

Bad cable at location A-A2V3

---or---

Bad -ribbon check net on I/O board A2 (FLD Page PS200).

**017**

- Continue to loop on test TE2DF.
- Remove the jumper.
- Install jumper between A-A2V3B09 and A-A2V4B06 (-ribbon check jumpered to -data bit 4).

**Do results = 8400?**

**Y N**

**018**

Bad cable at location A-A2V3.

**019**

- Continue to loop on test TE2DF.
- Remove the jumper.
- Install jumper between A-A2S2G08 and A-A2V4B06 (-ribbon check jumpered to -data bit 4).

**Do results = 8400?**

**Y N**

**020**

Bad -ribbon check net on I/O board A2 (FLD Page PS200).

**021**

Bad card:  
A-A2S2.

15Feb84 PN 2596072

EC 826487 PEC 826380

MAP 5016-3

5360 Systems Unit

022

The -ribbon check interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

023

(Entry Point C)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B12 (G12 for 2 wide connectors/sockets ) and cable socket 2 pin D09 (J09 for 2 wide connectors/sockets) (-belt up to speed jumpered to -close contactor).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D0.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y N

|

024

- Continue to loop on test TE2D0.

Do results = 4000?

Y N

|

5 5 5  
G H J

H J  
4 4

**UTSPD-Rib Test MAP**

**5360 Systems Unit**

PAGE 5 OF 6

**025**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2J10 (-belt up to speed).

**Are the lights correct?**

**Y N**

**026**

Bad card:  
A-A2S2.

**027**

Bad cable at location A-A2V3

---or---

Bad -belt up to speed net on I/O board A2 (FLD Page PS200).

**028**

- Continue to loop on test TE2D0.
- Remove the jumper.
- Install jumper between A-A2V3B12 and A-A2V3D09 (-belt up to speed jumpered to -close contactor).

**Do results = 4000?**

**Y N**

**029**

Bad cable at location A-A2V3.

K

G K  
4

MAP 5016-5

**030**

- Continue to loop on test TE2D0.
- Remove the jumper.
- Install jumper between A-A2S2J10 and A-A2V3D09 (-belt up to speed jumpered to -close contactor).

**Do results = 4000?**

**Y N**

**031**

Bad -belt up to speed net on I/O board A2 (FLD Page PS200).

**032**

Bad card:  
A-A2S2.

**033**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).

- Check continuity between printer cable socket 2 pin D12 (J12 for 2 wide connectors/sockets ) and A-A2S2M02 (-belt go).

**Was continuity OK?**

**Y N**

**034**

Bad cable at location A-A2V3

---or---

Bad -belt go net on I/O board A2 (FLD Page PS200).

6  
L

15Feb84

PN 2596072

EC 826487

PEC 826380

MAP 5016-5

**035**

The -belt up to speed interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**5360 Systems Unit**

PAGE 1 OF 4

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E281	A	1	001
E283	B	3	012

**001**

**(Entry Point A)**

- Set the printer Unit Emergency switch to the Power Off position.
  - Select mode 6.
  - Press the Power key (power off).
  - Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
  - Install jumper between printer cable socket 1 pin D04 and cable socket 1 pin B05 (-not print time jumpered to -data bit 3).
  - Press the Power key (power on).
  - Select mode E.
  - Enter FF00.
  - Insert diskette DIAG21.
  - Press the Load key.
  - Select the TU select option.
  - Select the 3262 printer option.
  - Select TE2DE.
- The TU description should be displayed.
- Press the Enter key (system console).
  - Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**



**002**

- Continue to loop on test TE2DE.

**Do results = 8400?**

**Y N**

2 2 2  
A B C

**MAP DESCRIPTION:**

This is the printer data parity check and power problem MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

**START CONDITIONS:**

- The system and printer power are on.
  - Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
  - Check that the throat and belt covers are closed.
- Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

A-A2S2, T2, board wiring, system cables

B C  
1 1

**Prtr Sense Err MAP**

**5360 Systems Unit**

PAGE 2 OF 4

**003**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2G12 (-not print time).

**Are the lights correct?**

Y N

**004**

Bad card:  
A-A2S2.

**005**

Bad cable at location A-A2V4

---or---

Bad -not print time net on I/O board A2 (FLD Page PS200).

**006**

- Continue to loop on test TE2DE.
- Remove the jumper.
- Install jumper between A-A2V4D04 and B05 (-not print time jumpered to -data bit 3).

**Do results = 8400?**

Y N

**007**

Bad cable at location A-A2V4.

A D  
1 1

MAP 5018-2

**008**

- Continue to loop on test TE2DE.
- Remove the jumper.
- Install jumper between A-A2S2G12 and A-A2V4B05 (-not print time jumpered to -data bit 3).

**Do results = 8400?**

Y N

**009**

Bad -not print time net on I/O board A2 (FLD Page PS200).

**010**

Bad card:  
A-A2S2.

**011**

The -not print time interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FFO0.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596073

EC 826487 PEC 826380

MAP 5018-2

D

**Prtr Sense Err MAP**

**5360 Systems Unit**

PAGE 3 OF 4

**012**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin D05 and cable socket 1 pin B03 (-data parity check jumpered to -data bit 1).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2DC.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**013**

- Continue to loop on test TE2DC.

**Do results = 8400?**

**Y N**

**014**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2S07 (-data parity check).  
(Step 014 continues)

**F**

MAP 5018-3

(Step 014 continued)  
**Are the lights correct?**

**Y N**

**015**

Bad card:  
A-A2S2.

**016**

Bad cable at location A-A2V4

---or---

Bad -data parity check net on I/O board A2 (FLD Page PS200).

**017**

- Continue to loop on test TE2DC.
- Remove the jumper.
- Install jumper between A-A2V4D05 and B03 (-data parity check jumpered to -data bit 1).

**Do results = 8400?**

**Y N**

**018**

Bad cable at location A-A2V4.

**019**

- Continue to loop on test TE2DC.
- Remove the jumper.
- Install jumper between A-A2S2S07 and A-A2V4B03 (-data parity check jumpered to -data bit 1).

**Do results = 8400?**

**Y N**

**020**

Bad -data parity check net on I/O board A2 (FLD Page PS200).

**021**

Bad card:  
A-A2S2.

**022**

The -data parity check interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**Printer Belt Timing Error MAP**

MAP 5020-1

**5360 Systems Unit**

PAGE 1 OF 5

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E279	A	1	001
E279	B	3	012
E279	C	4	023
E289	C	4	023
E297	A	1	001
E297	B	3	012
E297	C	4	023

**001**

**(Entry Point A)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B03 (G03 for 2 wide connectors/sockets ) and cable socket 3 pin D12 (-print subs cans jumpered to -forms indicator).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D7.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

<b>Y</b>	<b>N</b>

<b>2</b>	<b>2</b>
<b>A</b>	<b>B</b>

**MAP DESCRIPTION:**

This is the printer belt timing error MAP.

**START CONDITIONS:**

The system and printer power are on.

- Ensure that the forms are loaded in the printer.
- Check that the throat is closed and the belt cover is fastened tightly.

Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

A-A2S2, system cables and board wiring

B  
1

# Printer Belt Timing Error MAP

## 5360 Systems Unit

PAGE 2 OF 5

002

- Continue to loop on test TE2D7.

**Do results = 4000?**

Y N

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2S10 (-print subscans).

**Are the lights correct?**

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V3

---or---

Bad -print subscans net on I/O board A2 (FLD Page PS200).

006

- Continue to loop on test TE2D7.
- Remove the jumper.
- Install jumper between A-A2V3B03 and A-A2V2D12 (-print subscans jumpered to -forms indicator).

**Do results = 4000?**

Y N

007

Bad cable at location A-A2V3.

C

A C  
1

MAP 5020-2

008

- Continue to loop on test TE2D7.
- Remove the jumper.
- Install jumper between A-A2S2S10 and A-A2V2D12 (-print subscans jumpered to -forms indicator).

**Do results = 4000?**

Y N

009

Bad -print subscans net on I/O board A2 (FLD Page PS200).

010

Bad card:  
A-A2S2.

011

The -print subscans interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596074

EC 826487 PEC 826380

MAP 5020-2

**Printer Belt Timing Error MAP**

**5360 Systems Unit**

PAGE 3 OF 5

**012**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B08 (G08 for 2 wide connectors/sockets ) and cable socket 3 pin D09 (-impression control single shot jumpered to -check indicator).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D8.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**013**

- Continue to loop on test TE2D8.

**Do results = 4000?**

**Y N**

**014**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 014 continues)

**E**

MAP 5020-3

(Step 014 continued)

A-A2S2U06 (-impression control single shot).

**Are the lights correct?**

**Y N**

**015**

Bad card:  
A-A2S2.

**016**

Bad cable at location A-A2V3

---or---

Bad -impression control single shot net on I/O board A2 (FLD Page PS200).

**017**

- Continue to loop on test TE2D8.
- Remove the jumper.
- Install jumper between A-A2V3B08 and A-A2V2D09 (-impression control single shot jumpered to -check indicator).

**Do results = 4000?**

**Y N**

**018**

Bad cable at location A-A2V3.

**019**

- Continue to loop on test TE2D8.
- Remove the jumper.
- Install jumper between A-A2S2U06 and A-A2V2D09 (-impression control single shot jumpered to -check indicator).

**Do results = 4000?**

**Y N**

**020**

Bad -impression control single shot net on I/O board A2 (FLD Page PS200).

**021**

Bad card:  
A-A2S2.

15Feb84

PN 2596074

EC 826487

PEC 826380

MAP 5020-3

**Printer Belt Timing Error MAP**  
**5360 Systems Unit**

PAGE 4 OF 5

**022**

The -impression control single shot interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**023****(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin D11 (J11 for 2 wide connectors/sockets ) and cable socket 3 pin D13 (-home jumpered to -ready indicator).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D9.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**024**

- Continue to loop on test TE2D9.

**Do results = 4000?**

**Y N**

**025**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off

Down Light: On

(Step 025 continues)

15Feb84 PN 2596074

EC 826487 PEC 826380

G  
4

**Printer Belt Timing Error MAP**  
**5360 Systems Unit**

PAGE 5 OF 5

(Step 025 continued)  
A-A2S2U04 (-home).

**Are the lights correct?**

Y N

**026**

Bad card:  
A-A2S2.

**027**

Bad cable at location A-A2V3

---or---

Bad -home net on I/O board A2 (FLD Page PS200).

**028**

- Continue to loop on test TE2D9.
- Remove the jumper.
- Install jumper between A-A2V3D11 and A-A2V2D13 (-home jumpered to -ready indicator).

**Do results = 4000?**

Y N

**029**

Bad cable at location A-A2V3.

**030**

- Continue to loop on test TE2D9.
- Remove the jumper.
- Install jumper between A-A2S2U04 and A-A2V2D13 (-home jumpered to -ready indicator).

**Do results = 4000?**

Y N

**031**

Bad -home net on I/O board A2 (FLD Page PS200).

**032**

Bad card:  
A-A2S2.

F  
4

MAP 5020-5

**033**

The -home interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84

PN 2596074

EC 826487

PEC 826380

MAP 5020-5

# Printer Subscan Register Error MAP

MAP 5022-1

## 5360 Systems Unit

PAGE 1 OF 9

### ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E279	A	1	001
E279	B	3	014
E279	C	5	027
E279	D	6	040
E279	E	8	053
E289	A	1	001
E289	B	3	014
E289	C	5	027
E289	D	6	040
E289	E	8	053

#### 001

##### (Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
  - Select mode 6.
  - Press the Power key (power off).
  - Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
  - Install jumper between printer cable socket 1 pin D09 and cable socket 2 pin B11 (G11 for 2 wide connectors/sockets) (-fire tier 1 jumpered to -CE switch on).
  - Press the Power key (power on).
  - Select mode E.
  - Enter FF00.
  - Insert diskette DIAG21.
  - Press the Load key.
  - Select the TU select option.
  - Select the 3262 printer option.
  - Select TE2E4.
- The TU description should be displayed.
- Press the Enter key (system console).
  - Select option 2 (loop on test displaying results).
- (Step 001 continues)

##### MAP DESCRIPTION:

This is the fire tier (1-5) error MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

##### START CONDITIONS:

The system and printer power are on.

- Ensure that the type belt and the ribbon are installed and that the forms are loaded in the printer.
- Check that the throat and covers are closed.

Jumper PN 5785274 required.

##### FRUs PARTIALLY TESTED:

A-A2S2, T2, board wiring and system cables

**PSS Reg Error MAP**

**5360 Systems Unit**

PAGE 2 OF 9

MAP 5022-2

(Step 001 continued)  
Do results = 0000?

Y N

**002**

- Continue to loop on test TE2E4.

Do results = 4000?

Y N

**003**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P07 (-fire tier 1).

Are the lights correct?

Y N

**004**

Bad card:  
A-A2T2.

**005**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P07 (-fire tier 1).

Are the lights correct?

Y N

B C D

**006**

Bad card:  
A-A2S2.

**007**

Bad cable at location A-A2V4.

---or---

Bad -fire tier 1 net on I/O board A2 (FLD Page PT200).

**008**

- Continue to loop on test TE2E4.
- Remove the jumper.
- Install jumper between A-A2V4D09 and A-A2V3B11 (-fire tier 1 jumpered to -CE switch on).

Do results = 4000?

Y N

**009**

Bad cable at location A-A2V4.

**010**

- Continue to loop on test TE2E4.
- Remove the jumper.
- Install jumper between A-A2T2P07 and A-A2V3B11 (-fire tier 1 jumpered to -CE switch on).

Do results = 4000?

Y N

**011**

Bad -fire tier 1 net on I/O board A2 (FLD Page PT200).

**012**

Bad card:  
A-A2T2.

15Feb84 PN 2596075

EC 826487 PEC 826380

MAP 5022-2

3  
A B C D

## 013

The -fire tier 1 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

## 014

## (Entry Point B)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin D10 and cable socket 3 pin B05 (-fire tier 2 jumpered to -Carriage Space key).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E5.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y N

## 015

- Continue to loop on test TE2E5.

Do results = 4000?

Y N

## 016

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off

Down Light: On

A-A2T2P10 (-fire tier 2).

(Step 016 continues)

15Feb84

PN 2596075

EC 826487

PEC 826380

F  
3

**PSS Reg Error MAP**

**5360 Systems Unit**

PAGE 4 OF 9

(Step 016 continued)  
**Are the lights correct?**

Y N

**017**

Bad card:  
A-A2T2.

**018**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P10 (-fire tier 2).

**Are the lights correct?**

Y N

**019**

Bad card:  
A-A2S2.

**020**

Bad cable at location A-A2V4  
---or---  
Bad -fire tier 2 net on I/O board A2 (FLD Page PT200).

**021**

- Continue to loop on test TE2E5.
- Remove the jumper.
- Install jumper between A-A2V4D10 and A-A2V2B05 (-fire tier 2 jumpered to -Carriage Space key).

**Do results = 4000?**

Y N

**022**

Bad cable at location A-A2V4.

E G  
3

MAP 5022-4

**023**

- Continue to loop on test TE2E5.
- Remove the jumper.
- Install jumper between A-A2T2P10 and A-A2V2B05 (-fire tier 2 jumpered to -Carriage Space key).

**Do results = 4000?**

Y N

**024**

Bad -fire tier 2 net on I/O board A2 (FLD Page PT200).

**025**

Bad card:  
A-A2T2.

**026**

The -fire tier 2 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596075

EC 826487 PEC 826380

MAP 5022-4

G

**PSS Reg Error MAP**

**5360 Systems Unit**

PAGE 5 OF 9

**027**

**(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin D11 and cable socket 3 pin D10 (-fire tier 3 jumpered to -Ready key).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E6.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**028**

- Continue to loop on test TE2E6.

**Do results = 4000?**

**Y N**

**029**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P12 (-fire tier 3).  
(Step 029 continues)

6  
H J

J

MAP 5022-5

(Step 029 continued)  
**Are the lights correct?**

**Y N**

**030**

Bad card:  
A-A2T2.

**031**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P12 (-fire tier 3).

**Are the lights correct?**

**Y N**

**032**

Bad card:  
A-A2S2.

**033**

Bad cable at location A-A2V4

---or---

Bad -fire tier 3 net on I/O board A2 (FLD Page PT200).

**034**

- Continue to loop on test TE2E6.
- Remove the jumper.
- Install jumper between A-A2V4D11 and A-A2V2D10 (-fire tier 3 jumpered to -Ready key).

**Do results = 4000?**

**Y N**

**035**

Bad cable at location A-A2V4.

6  
K

15Feb84 PN 2596075

EC 826487 PEC 826380

MAP 5022-5

## 5360 Systems Unit

PAGE 6 OF 9

**036**

- Continue to loop on test TE2E6.
- Remove the jumper.
- Install jumper between A-A2T2P12 and A-A2V2D10 (-fire tier 3 jumpered to -Ready key).

**Do results = 4000?**

Y N

**037**

Bad -fire tier 3 net on I/O board A2 (FLD Page PT200).

**038**Bad card:  
A-A2T2.**039**

The -fire tier 3 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**040****(Entry Point D)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin D12 and cable socket 3 pin B12 (-fire tier 4 jumpered to -Stop/Reset key).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E7.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N

**041**

- Continue to loop on test TE2E7.

**Do results = 4000?**

Y N

**042**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: OnA-A2T2P09 (-fire tier 4).  
(Step 042 continues)

15Feb84 PN 2596075

EC 826487 PEC 826380

MAP 5022-6

M  
6

**PSS Reg Error MAP**  
**5360 Systems Unit**

PAGE 7 OF 9

(Step 042 continued)  
**Are the lights correct?**

Y N

**043**

Bad card:  
A-A2T2.

**044**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P09 (-fire tier 4).

**Are the lights correct?**

Y N

**045**

Bad card:  
A-A2S2.

**046**

Bad cable at location A-A2V4  
----or----  
Bad -fire tier 4 net on I/O board A2 (FLD Page PT200).

**047**

- Continue to loop on test TE2E7.
- Remove the jumper.
- Install jumper between A-A2V4D12 and A-A2V2B12 (-fire tier 4 jumpered to -Stop/Reset key).

**Do results = 4000?**

Y N

**048**

Bad cable at location A-A2V4.

N

L  
6

N  
MAP 5022-7

**049**

- Continue to loop on test TE2E7.
- Remove the jumper.
- Install jumper between A-A2T2P09 and A-A2V2B12 (-fire tier 4 jumpered to -Stop/Reset key).

**Do results = 4000?**

Y N

**050**

Bad -fire tier 4 net on I/O board A2 (FLD Page PT200).

**051**

Bad card:  
A-A2T2.

**052**

The -fire tier 4 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596075

EC 826487 PEC 826380

MAP 5022-7

**PSS Reg Error MAP**

**5360 Systems Unit**

PAGE 8 OF 9

**053**

**(Entry Point E)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin D13 and cable socket 3 pin B06 (-fire tier 5 jumpered to -Carriage Restore key).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E8.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**054**

- Continue to loop on test TE2E8.

**Do results = 4000?**

**Y N**

**055**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P11 (-fire tier 5).  
(Step 055 continues)

9  
P Q

Q

MAP 5022-8

(Step 055 continued)  
**Are the lights correct?**

**Y N**

**056**

Bad card:  
A-A2T2.

**057**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2P11 (-fire tier 5).

**Are the lights correct?**

**Y N**

**058**

Bad card:  
A-A2S2.

**059**

Bad cable at location A-A2V4  
---or---  
Bad -fire tier 5 net on I/O board A2 (FLD Page PT200).

**060**

- Continue to loop on test TE2E8.
- Remove the jumper.
- Install jumper between A-A2V4D13 and A-A2V2B06 (-fire tier 5 jumpered to -Carriage Restore key).

**Do results = 4000?**

**Y N**

**061**

Bad cable at location A-A2V4.

9  
R

15Feb84      PN 2596075  
EC 826487    PEC 826380  
MAP 5022-8

**5360 Systems Unit**

PAGE 9 OF 9

**062**

- Continue to loop on test TE2E8.
- Remove the jumper.
- Install jumper between A-A2T2P11 and A-A2V2B06 -fire tier 5 jumpered to -Carriage Restore key).

**Do results = 4000?**

**Y N**

**063**

Bad -fire tier 5 net on I/O board A2 (FLD Page PT200).

**064**

Bad card:  
A-A2T2.

**065**

The -fire tier 5 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**Printer Carriage Emitter MAP**

MAP 5024-1

**5360 Systems Unit**

PAGE 1 OF 6

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E259	A	1	001
E261	A	1	001
E271	B	3	012
E277	B	3	012
E285	B	3	012
E295	B	3	012

**001**

**(Entry Point A)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B07 (G07 for 2 wide connectors/sockets ) and cable socket 1 pin D06 (-carriage advance jumpered to -strobe).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2EA.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

Y	N
---	---

**2 2  
A B**

**MAP DESCRIPTION:**

This is the printer carriage advance test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

**START CONDITIONS:**

- The system and printer power are on.
  - Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
  - Check that the throat and beltcovers are closed.
- Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

- A-A2S2
- Board wiring
- I/O cables
- Printer cable

B  
1

**Carriage Emtr MAP**  
**5360 Systems Unit**  
PAGE 2 OF 6

002

- Continue to loop on test TE2EA.

Do results = 4000?

Y N

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2G10 (-carriage advance).

Are the lights correct?

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V3  
---or---  
Bad -carriage advance net on I/O board A2 (FLD  
Page PS200).

006

- Continue to loop on test TE2EA.
- Remove the jumper.
- Install jumper between A-A2V3B07 and A-A2V4D06 (-carriage advance jumpered to -strobe).

Do results = 4000?

Y N

007

Bad cable at location A-A2V3.

C

A C  
1

MAP 5024-2

008

- Continue to loop on test TE2EA.
- Remove the jumper.
- Install jumper between A-A2S2G10 and A-A2V4D06 (-carriage advance jumpered to -strobe).

Do results = 4000?

Y N

009

Bad -carriage advance net on I/O board A2 (FLD  
Page PS200).

010

Bad card:  
A-A2S2.

011

The -carriage advance interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

012

(Entry Point B)

- Probe the following:

Up Light: Off  
Down Light: Off

A-A2S2U13 (-carriage go).

Are the lights correct?

Y N

013

- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2U13 (-carriage go).

Are the lights correct?

Y N

014

- Run TU Select and loop on diagnostic test TE278.

- Probe the following:

Up Light: Off  
Down Light: Flashing

A-A2S2U13 (-carriage go).

Are the lights correct?

Y N

5 5 4  
D E F G

G

015

- Press the ATTN key to stop the test loop.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.

- Press the Power key (power on).
- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2U13 (-carriage go).

Are the lights correct?

Y N

016

- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2U13 (-carriage go).

Are the lights correct?

Y N

017

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between printer cable socket 2 pin D04 (J04 for 2 wide connectors/sockets) and A-A2S2U13 (-carriage go).

Was continuity OK?

Y N

4 4 4 4  
H J K L

15Feb84

PN 2596076

EC 826487

PEC 826380

MAP 5024-3

J K L  
3 3 3

**Carriage Emtr MAP**  
**5360 Systems Unit**

PAGE 4 OF 6

**018**

Bad cable at location A-A2V3

---or---

Bad -carriage go net on I/O board A2 (FLD Page PS200).

**019**

The -carriage go interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**020**

- Set the printer Unit Emergency switch to the Power Off position.
- Leave the system power on.
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2U13 (-carriage go).  
(Step 020 continues)

F H  
3 3

MAP 5024-4

(Step 020 continued)  
**Are the lights correct?**

Y N

**021**

The -carriage go interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**022**

Bad cable at location A-A2V3

---or---

Bad -carriage go net on I/O board A2 (FLD Page PS200).

**023**

Bad card:  
A-A2S2.

**024**

- Press the ATTN key to stop the test loop.
- Go to Page 5, Step 032, Entry Point C.

E  
3

**Carriage Emtr MAP**

**5360 Systems Unit**

PAGE 5 OF 6

**025**

- Run TU Select and loop on diagnostic test TE278.
- Probe the following:

Up Light: On or flashing  
 Down Light: On or flashing

A-A2S2U13 (-carriage go).

**Are the lights correct?**

Y N

**026**

- Press the ATTN key to stop the test loop.

Bad card:  
 A-A2S2.

**027**

- Press the ATTN key to stop the test loop.
- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between printer cable socket 2 pin D04 (J04 for 2 wide connectors/sockets) and A-A2S2U13 (-carriage go).

**Was continuity OK?**

Y N

**028**

Bad cable at location A-A2V3  
 ---or---  
 Bad -carriage go net on I/O board A2 (FLD Page PS200).

**029**

**Was a Carriage Check 4 indicated?**

Y N

M N

D M N  
3

MAP 5024-5

**030**

- The -carriage go interface line is not at the expected level.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
  - Select mode 6.
  - Press the Power key (power off).
  - Reinstall any cables removed earlier.
  - Reinstall any logic cards removed earlier.
  - Press the Power key (power on).
  - Set the printer Unit Emergency switch to the Power Enable position.
  - Select mode E.
  - Enter FF00.
  - Insert diskette DIAG21.
  - Press the Load key.
  - Select the TU Select option.
  - Select the 3262 Printer option.
  - Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**031**

**Go to Page 1, Step 001, Entry Point A.**

**032**

**(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between printer cable socket 2 pin D04 (J04 for 2 wide connectors/sockets) and A-A2S2U13 (-carriage go).

**Was continuity OK?**

Y N

6 6  
P Q

15Feb84 PN 2596076  
 EC 826487 PEC 826380  
 MAP 5024-5

P 0  
5 5

## Carriage Emtr MAP

MAP 5024-6

### 5360 Systems Unit

PAGE 6 OF 6

#### 033

Bad cable at location A-A2V3

---or---

Bad -carriage go net on I/O board A2 (FLD Page PS200).

#### 034

The -carriage go interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596076

EC 826487 PEC 826380

MAP 5024-6

**Print Data Wrap Error MAP**

MAP 5026-1

**5360 Systems Unit**

PAGE 1 OF 6

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E261	A	1	001
E261	B	3	008
E261	D	6	024
E273	C	4	013
E277	A	1	001
E277	B	3	008
E277	C	4	013

**001**

**(Entry Point A)**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Add a jumper between A-A2T2J08 (ground) and A-A2V2B02 (-printer power on).
- Press the Power key (power on).

If a Data Parity Check has been indicated or if the -Data parity check interface line is not at the expected level, we still want to analyze the Data bit 0-7, Parity bit, Strobe and Data Parity Check lines to ensure that they are not causing the problem.

- Probe the following:

Up Light: On  
Down Light: Off

A-A2T2M13 (-parity bit).

**Are the lights correct?**

<b>Y</b>	<b>N</b>

<b>2</b>	<b>2</b>
<b>A</b>	<b>B</b>

**MAP DESCRIPTION:**

This is the data bit (0-7) and parity bit wrap error MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

**START CONDITIONS:**

- The system and printer power are on.
- Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
  - Check that the throat and beltcovers are closed.

**FRUs PARTIALLY TESTED:**

A-A2S2, A-A2T2, Board wiring, System cables

B  
1

# Print Data Error MAP

## 5360 Systems Unit

PAGE 2 OF 6

### 002

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2M10 (-parity bit).

Are the lights correct?

Y N

### 003

- Set the printer Unit Emergency switch to the Power Off position.
- Leave the system power on.
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2M13 (-parity bit).

Are the lights correct?

Y N

### 004

The -parity bit interface line is not at the expected level.

- Remove all jumpers installed earlier.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.

(Step 004 continues)

A C D  
1

MAP 5026-2

(Step 004 continued)

- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

### 005

- Remove all jumpers installed earlier.

Bad cable at location A-A2V4

---or---

Bad -parity bit net on I/O board A2 (FLD Page PT200).

### 006

- Remove all jumpers installed earlier.

Bad card:

A-A2S2.

### 007

- Remove all jumpers installed earlier.

Bad card:

A-A2T2.

15Feb84

PN 2596077

EC 826487

PEC 826380

C D

MAP 5026-2

**Print Data Error MAP**

**5360 Systems Unit**

PAGE 3 OF 6

**008**

**(Entry Point B)**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Add a jumper between A-A2T2J08 (ground) and A-A2V2B02 (-printer power on).
- Press the Power key (power on).
  
- Probe the following:

Up Light: On  
Down Light: Off

- A-A2T2M04 (-data bit 0)
- M05 (-data bit 1)
- M06 (-data bit 2)
- M07 (-data bit 3)
- M08 (-data bit 4)
- M09 (-data bit 5)
- M10 (-data bit 6)
- M12 (-data bit 7).

**Are the lights correct for all of the above?**

**Y N**

**009**

- Set the printer Unit Emergency switch to the Power Off position.
- Leave the system power on.
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Probe the following:

Up Light: Off  
Down Light: Off

- A-A2T2M04 (-data bit 0)
- M05 (-data bit 1)
- M06 (-data bit 2)
- M07 (-data bit 3)
- M08 (-data bit 4)
- M09 (-data bit 5)
- M10 (-data bit 6)
- M12 (-data bit 7).

(Step 009 continues)

**E**

MAP 5026-3

(Step 009 continued)

**Are the lights correct for all of the above?**

**Y N**

**010**

- Remove all jumpers installed earlier.
- Bad cable at location A-A2V4
- or---
- Bad net on I/O board for one or more of the lines 'Data bits 0-7' (FLD Page PT200).

**011**

- Remove all jumpers installed earlier.
- One or more of the interface lines 'Data bits 0-7', is not at the expected level.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**012**

- Remove all jumpers installed earlier.
- Bad card:
- A-A2T2.

15Feb84 PN 2596077

EC 826487 PEC 826380

MAP 5026-3

**E**

**Print Data Error MAP**

**5360 Systems Unit**

PAGE 4 OF 6

MAP 5026-4

**013**

**(Entry Point C)**

- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2M03 (-strobe).

**Are the lights correct?**

**Y N**

**014**

The -strobe interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

F

**015**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2T2.
- Add a jumper between A-A2T2J08 (ground) and A-A2V2B02 (-printer power on).
- Press the Power key (power on).
- Probe the following:

Up Light: On  
Down Light: Off

A-A2T2M03 (-strobe).

**Are the lights correct?**

**Y N**

**016**

- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2J13 (-strobe).

**Are the lights correct?**

**Y N**

**017**

- Remove all jumpers installed earlier.
- The -strobe interface line is not at the expected level.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer (Step 017 continues)

15Feb84 PN 2596077

EC 826487 PEC 826380

MAP 5026-4

5 5  
G H

F

H  
4

**Print Data Error MAP**

**5360 Systems Unit**

PAGE 5 OF 6

(Step 017 continued)  
functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**018**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2J13 (-strobe).

**Are the lights correct?**

Y N

**019**

- Set the printer Unit Emergency switch to the Power Off position.
- Leave the system power on.
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2T2M03 (-strobe).

**Are the lights correct?**

Y N

J K L

G J K L  
4

MAP 5026-5

**020**

- Remove all jumpers installed earlier.
- The -strobe interface line is not at the expected level.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**021**

- Remove all jumpers installed earlier.
- Bad cable at location A-A2V4
- or---
- Bad -strobe net on I/O board A2 (FLD Page PT200).

**022**

- Remove all jumpers installed earlier.
- Bad card:  
A-A2S2.

**023**

- Remove all jumpers installed earlier.
- Bad card:  
A-A2T2.

15Feb84 PN 2596077

EC 826487 PEC 826380

MAP 5026-5

**Print Data Error MAP**

**5360 Systems Unit**

PAGE 6 OF 6

M N P

MAP 5026-6

**024**

**(Entry Point D)**

- Probe the following:

Up Light: Off  
Down Light: Off

A-A2S2S07(-data parity check).

**Are the lights correct?**

Y N

**025**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Check continuity between the following points:

Cable socket 1	A-A2T2	Net name
B02 and M04		-data bit 0
B03 and M05		-data bit 1
B04 and M06		-data bit 2
B05 and M07		-data bit 3
B06 and M08		-data bit 4
B07 and M09		-data bit 5
B08 and M10		-data bit 6
B09 and M12		-data bit 7
B10 and M13		-parity bit
D06 and M03		-strobe

Cable socket 1	A-A2S2	Net name
D05 and S07		-data parity check

**Was continuity OK?**

Y N

M N P

**026**

- Remove all jumpers installed earlier.
- Bad cable at location A-A2V4
- or---
- Bad net on I/O board A2 for -strobe, -data parity check or one or more of the lines Data bit 0-7,Parity bit (FLD Page PT200).

**027**

- Remove all jumpers installed earlier.
- One or more of the following interface lines is not at the expected level:
  - strobe
  - data parity check
  - Data bit 0-7,Parity bit
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**028**

Bad card:  
A-A2S2.

15Feb84 PN 2596077

EC 826487 PEC 826380

MAP 5026-6

5360 Systems Unit

PAGE 1 OF 4

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E259	A	1	001
E285	B	3	014

001

(Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin B06 (G06 for 2 wide connectors/sockets ) and cable socket 1 pin B07 (-Forms pulse jumpered to -data bit 5).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E0.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0800?

Y N

Y N

3 2  
A B

MAP DESCRIPTION:

This is the printer forms jam test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

START CONDITIONS:

The system and printer power are on.  
 - Ensure that the type belt and the ribbon are installed and that the forms are loaded in the printer.  
 - Check that the throat and belt covers are closed.  
 Jumper PN 5785274 required.

FRUs PARTIALLY TESTED:

A-A2S2  
 Board wiring  
 System cables

B  
1

**Forms Jam Test MAP**  
**5360 Systems Unit**

PAGE 2 OF 4

**002**

- Press the ATTN key to stop the test loop.
- Probe the following:

Up Light: On  
Down Light: Off

A-A2S2P07 (-Active Paper Clamp).

**Are the lights correct?**

**Y N**

**003**

The -Activate Paper Clamp interface line is not at the expected level.

**Go to Page 3, Step 014, Entry Point B.**

**004**

- Continue to loop on test TE2E0.

**Do results = 8400?**

**Y N**

**005**

The -Forms pulse interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

(Step 005 continues)

C

MAP 5028-2

(Step 005 continued)

Go to the 3262 printer entry MAP 0010, Entry Point A.

**006**

- Continue to loop on test TE2E0.
- Remove the jumper.
- Install jumper between A-A2V3B06 and A-A2V4B07 (-Forms pulse jumpered to -data bit 5).

**Do results = 8400?**

**Y N**

**007**

Bad cable at location A-A2V3.

**008**

- Continue to loop on test TE2E0.
- Remove the jumper.
- Install jumper between A-A2S2M04 and A-A2V4B07 (-Forms pulse jumpered to -data bit 5).

**Do results = 8400?**

**Y N**

**009**

Bad -Forms pulse net on I/O board A2 (FLD Page PS200).

**010**

Bad card:  
A-A2S2.

15Feb84 PN 2596078

EC 826487 PEC 826380

MAP 5028-2

C

A  
1

**Forms Jam Test MAP**

MAP 5028-3

**5360 Systems Unit**

PAGE 3 OF 4

**011**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2M04 (-Forms pulse).

**Are the lights correct?**

Y N

**012**

Bad card:  
A-A2S2.

**013**

Bad cable at location A-A2V3

---or---

Bad -Forms pulse net on I/O board A2 (FLD Page PS200).

**014**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin D07 (J07 for 2 wide connectors/sockets ) and cable socket 1 pin B12 (-activate paper clamp jumpered to -hammer echo return).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D1.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N

**015**

- Continue to loop on test TE2D1.

**Do results = 4000?**

Y N

**016**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

(Step 016 continues)

15Feb84 PN 2596078

EC 826487 PEC 826380

MAP 5028-3

4 4  
D E

**Forms Jam Test MAP****5360 Systems Unit**

PAGE 4 OF 4

(Step 016 continued)

A-A2S2P07 (-activate paper clamp).

**Are the lights correct?**

Y N

**017**Bad card:  
A-A2S2.**018**

Bad cable at location A-A2V3

---or---

Bad -activate paper clamp net on I/O board A2  
(FLD Page PS200).**019**

- Continue to loop on test TE2D1.
- Remove the jumper.
- Install jumper between A-A2V3D07 and A-A2V4B12  
(-activate paper clamp jumpered to -hammer echo return).

**Do results = 4000?**

Y N

**020**

Bad cable at location A-A2V3.

**021**

- Continue to loop on test TE2D1.
- Remove the jumper.
- Install jumper between A-A2S2P07 and A-A2V4B12  
(-activate paper clamp) jumpered to -hammer echo return).

**Do results = 4000?**

Y N

**022**Bad -activate paper clamp net on I/O board A2  
(FLD Page PS200).**023**Bad card:  
A-A2S2.**024**

The -activate paper clamp interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

5360 Systems Unit

PAGE 1 OF 3

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E269	A	1	001
E281	A	1	001
E283	A	1	001

001

(Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin B12 and cable socket 2 pin D07 (J07 for 2 wide connectors/sockets) (-hammer echo return jumpered to -activate paper clamp).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D1.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y N



2 2 2  
A B C

MAP DESCRIPTION:

This is the printer hammer echo return test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

START CONDITIONS:

The system and printer power are on.  
 - Ensure that type belt and the ribbon are installed and that the forms are loaded in the printer.  
 - Check that the throat and belt covers are closed.  
 Jumper PN 5785274 required.

FRUs PARTIALLY TESTED:

A-A2S2  
 Board wiring  
 System cables

B C  
1 1

**Hammer Echo Return  
5360 Systems Unit**

PAGE 2 OF 3

**003**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2S04 (-hammer echo return).

**Are the lights correct?**

Y N

**004**

Bad card:  
A-A2S2.

**005**

Bad cable at location A-A2V4  
---or---  
Bad -hammer echo return net on I/O board A2  
(FLD Page PS200).

**006**

- Continue to loop on test TE2D1.
- Remove the jumper.
- Install jumper between A-A2V4B12 and A-A2V3D07 (-hammer echo return jumpered to -activate paper clamp).

**Do results = 4000?**

Y N

**007**

Bad cable at location A-A2V4.

D

A D  
1

MAP 5030-2

**008**

- Continue to loop on test TE2D1.
- Remove the jumper.
- Install jumper between A-A2S2S04 and A-A2V3D07 (-hammer echo return jumpered to -activate paper clamp).

**Do results = 4000?**

Y N

**009**

Bad -hammer echo return net on I/O board A2  
(FLD Page PS200).

**010**

Bad card:  
A-A2S2.

**011**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Check continuity between the following points:

Cable socket	1	A-A2S2	net name
D09	and	U07	-fire tier 1
D10	and	U10	-fire tier 2
D11	and	U12	-fire tier 3
D12	and	U09	-fire tier 4
D13	and	U11	-fire tier 5.

**Was continuity OK?**

Y N

**012**

Bad cable at location A-A2V4  
---or---  
Bad net on I/O board A2 for one or more of the interface lines Fire tier 1-5 (FLD Page PS200).

3  
E

15Feb84 PN 2596079  
EC 826487 PEC 826380  
MAP 5030-2

**Hammer Echo Return****5360 Systems Unit**

PAGE 3 OF 3

013

The -hammer echo return interface line is not at the expected level.

Note: This problem may be serviced as an any hammer on check in the 3262 printer MAPs.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.



B  
1

**Printer Reset Test**  
**5360 Systems Unit**

PAGE 2 OF 4

002

- Continue to loop on test TE2DA.

Do results = 4000?

Y N

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2G13 (+POR (power on reset)).

Are the lights correct?

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V3

---or---

Bad +POR (power on reset) net on I/O board A2  
(FLD Page PS200).

006

- Continue to loop on test TE2DA.
- Remove the jumper.
- Install jumper between A-A2V3D06 and B02 (+POR (power on reset) jumpered to +end of forms).

Do results = 4000?

Y N

007

Bad cable at location A-A2V2.

A C  
1

MAP 5032-2

008

- Continue to loop on test TE2DA.
- Remove the jumper.
- Install jumper between A-A2S2G13 and A-A2V3B02 (+POR (power on reset) jumpered to +end of forms).

Do results = 4000?

Y N

009

Bad +POR (power on reset) net on I/O board A2  
(FLD Page PS200).

010

Bad card:  
A-A2S2.

011

The +POR (power on reset) interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596080

EC 826487 PEC 826380

MAP 5032-2

C

**Printer Reset Test**  
**5360 Systems Unit**

PAGE 3 OF 4

**012**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin D09 (J09 for 2 wide connectors/sockets ) and cable socket 2 pin B12 (G12 for 2 wide connectors/sockets ) (-close contactor jumpered to -belt up to speed).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D0.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**013**

- Continue to loop on test TE2D0.

**Do results = 4000?**

**Y N**

4  
D E F

E F

MAP 5032-3

**014**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2S05 (-close contactor).

**Are the lights correct?**

**Y N**

**015**

Bad card:  
A-A2S2.

**016**

Bad cable at location A-A2V3

---or---

Bad -close contactor net on I/O board A2 (FLD Page PS200).

**017**

- Continue to loop on test TE2D0.
- Remove the jumper.
- Install jumper between A-A2V3D09 and A-A2V3B12 (-close contactor jumpered to -belt up to speed).

**Do results = 4000?**

**Y N**

**018**

Bad cable at location A-A2V3.

4  
G

15Feb84      PN 2596080  
EC 826487    PEC 826380  
MAP 5032-3

D G  
3 3

## Printer Reset Test

MAP 5032-4

### 5360 Systems Unit

PAGE 4 OF 4

#### 019

- Continue to loop on test TE2D0.
- Remove the jumper.
- Install jumper between A-A2S2S05 and A-A2V3B12  
(-close contactor jumpered to -belt up to speed).

Do results = 4000?

Y N

#### 020

Bad -close contactor net on I/O board A2 (FLD Page PS200).

#### 021

Bad card:  
A-A2S2.

#### 022

The -close contactor interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596080

EC 826487 PEC 826380

MAP 5032-4

5360 Systems Unit

PAGE 1 OF 3

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E259	A	1	001
E269	A	1	001
E289	A	1	001

001

(Entry Point A)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 1 pin D07 and cable socket 2 pin D13 (J13 for 2 wide connectors/sockets) (-hammer sample jumpered to -printer busy).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2D4.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y N

|

002

- Continue to loop on test TE2D4.

Do results = 4000?

Y N

|

2 2 2  
A B C

MAP DESCRIPTION:

This MAP is the hammer sample test MAP. This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

START CONDITIONS:

- The system and printer power are on.
  - Ensure that the type belt and the ribbon are installed and that forms are loaded in the printer.
  - Check that the throat and belt covers are closed.
- Jumper PN 5785274 required.

FRUs PARTIALLY TESTED:

- A-A2S2
- Board wiring
- I/O cables
- Printer cable

B C  
1 1

### Hammer Sample Test

### 5360 Systems Unit

PAGE 2 OF 3

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2P02 (-hammer sample).

Are the lights correct?

Y N

004

Bad card:  
A2S2.

005

Bad cable at location A-A2V4  
---or---  
Bad -hammer sample net on I/O board A2 (FLD Page PS200).

006

- Continue to loop on test TE2D4.
- Remove the jumper.
- Install jumper between A-A2V4D07 and A-A2V3D13 (-hammer sample) jumpered to -printer busy).

Do results = 4000?

Y N

007

Bad cable at location A-A2V4.

D

A D  
1

MAP 5034-2

008

- Continue to loop on test TE2D4.
- Remove the jumper.
- Install jumper between A-A2S2P02 and A-A2V3D13 (-hammer sample jumpered to -printer busy).

Do results = 4000?

Y N

009

Bad -hammer sample net on I/O board A2 (FLD Page PS200).

010

Bad card:  
A-A2S2.

011

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Check continuity between the following points:

Cable socket	1	A-A2S2	net name
D09	and	U07	-fire tier 1
D10	and	U10	-fire tier 2
D11	and	U12	-fire tier 3
D12	and	U09	-fire tier 4
D13	and	U11	-fire tier 5.

Was continuity OK?

Y N

012

Bad cable at location A-A2V4  
---or---  
Bad net on I/O board A2 for one or more of the interface lines Fire tier 1-5 (FLD Page PS200).

3  
E

15Feb84 PN 2596081

EC 826487 PEC 826380

MAP 5034-2

**Hammer Sample Test****5360 Systems Unit**

PAGE 3 OF 3

**013**

The -hammer sample interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**Cable Interlock MAP**

MAP 5036-1

**5360 Systems Unit**

PAGE 1 OF 4

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E255	A	1	001
E259	A	1	001
E283	A	1	001
5000	A	1	001

**001**

**(Entry Point A)**

- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2U05 (+cable interlock).

**MAP DESCRIPTION:**

This is the cable interlock MAP. This MAP aids you in finding the cause of a cable interlock problem between the 3262 printer and the attachment.

**START CONDITIONS:**

System and printer power are on.

- Ensure that the belt and ribbon are installed and the forms are loaded in the printer.
- Check that the throat is closed and the belt cover is fastened tightly.

**FRUs PARTIALLY TESTED:**

A-A2R2 and S2

**Are the lights correct?**

**Y N**

**002**

- Set the printer Unit Emergency switch to the Power Off position.
- Leave the system power on.
- Check the printer interface cable connections at the system cable tower. See 50-230.
- Set the printer Unit Emergency switch to the Power Enable position.
- Probe the following:

Up Light: Off  
Down Light: On

(Step 002 continues)

© Copyright IBM Corp. 1983

15Feb84 PN 2596082

EC 826487 PEC 826380

MAP 5036-1

**Cable Intlk MAP**  
**5360 Systems Unit**

MAP 5036-2

PAGE 2 OF 4

(Step 002 continued)  
A-A2S2U05 (+cable interlock).

**Are the lights correct?**

Y N

**003**

**(Entry Point B)**

- Select mode 6.
- Press the Power key (power off).
- Check that the cables in the following list are seated correctly:

Cable at location A-A2V2 in the system  
Cable at location A-A2V3 in the system  
Cable at location A-A2V4 in the system  
(50-210).

- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2U05 (+cable interlock).

**Are the lights correct?**

Y N

**004**

- Select mode 6.
- Press the Power key (power off).
- Install the following jumpers:

A-A2V2D04 to V2B13  
A-A2V3D05 to V3B13  
A-A2V4D03 to V4B13.

- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2U05 (+cable interlock).

**Are the lights correct?**

Y N

Note: - Ensure that each cable is plugged into its correct socket.

4 4 3 3  
B C D E

15Feb84 PN 2596082  
EC 826487 PEC 826380  
MAP 5036-2

D E  
2 2

**Cable Intlk MAP**  
**5360 Systems Unit**

MAP 5036-3

PAGE 3 OF 4

**005**

- Remove all jumpers installed earlier.
- Bad +cable interlock net on I/O board A2 (FLD Page PS200).

**006**

- Remove all jumpers installed earlier.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2, and 3 (blue) at the system cable tower.
- Check continuity between the following points:

Note: for a system with 2 wide printer connector/sockets, for cable socket 2; pin B13 = pin G13 and pin D05 = pin J05.

Cable socket 3	A2 board	Net name
B13	and V2B13	Cable Interlock
D04	and V2D04	Cable Interlock

Cable socket 2	A2 board	Net name
B13 *	and V3B13	Cable Interlock
D05 *	and V3D05	Cable Interlock

\*see note

Cable socket 1	A2 board	Net name
B13	and V4B13	Cable Interlock
D03	and V4D03	Cable Interlock

Was continuity OK?

Y N

**007**

- Bad cable at location A-A2V2
- or---
- Bad cable at location A-A2V3
- or---
- Bad cable at location A-A2V4.

4  
F

A B C F  
1 2 2 3

**Cable Intlk MAP**  
**5360 Systems Unit**

MAP 5036-4

PAGE 4 OF 4

**008**

A +cable interlock check is indicated.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**009**

Go to MAP 5001, Entry Point A and run the printer MDI diagnostics to verify the fix.

**010**

Go to MAP 5001, Entry Point A and run the printer MDI diagnostics to verify the fix.

**011**

Bad card:  
A-A2S2.

**Wrap Return Bit Error MAP**

MAP 5038-1

**5360 Systems Unit**

PAGE 1 OF 5

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E261	B	3	012
E277	A	1	001
E277	C	4	023

**001**

**(Entry Point A)**

- Set the printer Unit Emergency switch to the Power Off position.
  - Select mode 6.
  - Press the Power key (power off).
  - Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
  - Install jumper between printer cable socket 3 pin D03 and cable socket 1 pin B08 (-wrap return 1 data bit 6 jumpered to -data bit 6).
  - Press the Power key (power on).
  - Select mode E.
  - Enter FF00.
  - Insert diskette DIAG21.
  - Press the Load key.
  - Select the TU select option.
  - Select the 3262 printer option.
  - Select TE2E1.
- The TU description should be displayed.
- Press the Enter key (system console).
  - Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N

**002**

- Continue to loop on test TE2E1.

**Do results = 8400?**

Y N

2	2	2
A	B	C

**MAP DESCRIPTION:**

This is the printer wrap, return bit error MAP. This MAP finds the failing FRU.

**START CONDITIONS:**

The system and printer power are on.  
Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

A-A2S2  
board wiring  
I/O cables

Note: The signal lines tested in this MAP are used for diagnostic purposes and do not go to the printer.

B C  
1 1

## Wrap Return Bit Error MAP

5360 Systems Unit

PAGE 2 OF 5

003

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2D13 (-wrap return 1 data bit 6).

Are the lights correct?

Y N

004

Bad card:  
A-A2S2.

005

Bad cable at location A-A2V2

---or---

Bad -wrap return 1 data bit 6 net on I/O board A2  
(FLD Page PS200).

006

- Continue to loop on test TE2E1.
- Remove the jumper.
- Install jumper between A-A2V2D03 and A-A2V4B08 (-wrap return 1 data bit 6 jumpered to -data bit 6).

Do results = 8400?

Y N

007

Bad cable at location A-A2V2.

A D  
1 1

MAP 5038-2

008

- Continue to loop on test TE2E1.
- Remove the jumper.
- Install jumper between A-A2S2D13 and A-A2V4B08 (-wrap return 1 data bit 6 jumpered to -data bit 6).

Do results = 8400?

Y N

009

Bad -wrap return 1 data bit 6 net on I/O board  
A2 (FLD Page PS200).

010

Bad card:  
A-A2S2.

011

The -wrap return 1 data bit 6 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596083

EC 826487 PEC 826380

MAP 5038-2

D

## Wrap Return Bit Error MAP

### 5360 Systems Unit

PAGE 3 OF 5

012

#### (Entry Point B)

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin D06 and cable socket 1 pin B09 (-wrap return 2 data bit 7 jumpered to -data bit 7).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E2.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

Do results = 0000?

Y N

013

- Continue to loop on test TE2E2.

Do results = 8400?

Y N

014

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2J11 (-wrap return 2 data bit 7).

(Step 014 continues)

F

MAP 5038-3

(Step 014 continued)  
Are the lights correct?

Y N

015

Bad card:  
A-A2S2.

016

Bad cable at location A-A2V2

---or---

Bad -wrap return 2 data bit 7 net on I/O board A2  
(FLD Page PS200).

017

- Continue to loop on test TE2E2.
- Remove the jumper.
- Install jumper between A-A2V2D06 and A-A2V4B09 (-wrap return 2 data bit 7 jumpered to -data bit 7).

Do results = 8400?

Y N

018

Bad cable at location A-A2V2.

019

- Continue to loop on test TE2E2.
- Remove the jumper.
- Install jumper between A-A2S2J11 and A-A2V4B09 (-wrap return 2 data bit 7 jumpered to -data bit 7).

Do results = 8400?

Y N

020

Bad -wrap return 2 data bit 7 net on I/O board A2  
(FLD Page PS200).

021

Bad card:  
A-A2S2.

4  
E F

15Feb84

PN 2596083

EC 826487

PEC 826380

MAP 5038-3

**Wrap Return Bit Error MAP**

MAP 5038-4

**5360 Systems Unit**

PAGE 4 OF 5

**022**

The -wrap return 2 data bit 7 interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**023****(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 3 pin B04 and cable socket 1 pin B10 (-wrap return 3 data bit P jumpered to -parity bit).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2E3.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

**Y N**

**024**

- Continue to loop on test TE2E3.

**Do results = 8400?**

**Y N**

**025**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A2S2G11 (-wrap return 3 data bit P).  
(Step 025 continues)

15Feb84 PN 2596083

EC 826487 PEC 826380

MAP 5038-4

H  
4

## Wrap Return Bit Error MAP

### 5360 Systems Unit

PAGE 5 OF 5

(Step 025 continued)

Are the lights correct?

Y N

#### 026

Bad card:  
A-A2S2.

#### 027

Bad cable at location A-A2V2

---or---

Bad -wrap return 3 data bit P net on I/O board A2  
(FLD Page PS200).

#### 028

- Continue to loop on test TE2E3.
- Remove the jumper.
- Install jumper between A-A2V2B04 and A-A2V4B10  
(-wrap return 3 data bit P jumpered to -parity bit).

Do results = 8400?

Y N

#### 029

Bad cable at location A-A2V2.

#### 030

- Continue to loop on test TE2E3.
- Remove the jumper.
- Install jumper between A-A2S2G11 and A-A2V4B10  
(-wrap return 3 data bit P jumpered to -parity bit).

Do results = 8400?

Y N

#### 031

Bad -wrap return 3 data bit P net on I/O board A2  
(FLD Page PS200).

#### 032

Bad card:  
A-A2S2.

G  
4

MAP 5038-5

#### 033

The -wrap return 3 data bit P interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84 PN 2596083

EC 826487 PEC 826380

MAP 5038-5



A B  
1 1

**Cable Test MAP**  
**5360 Systems Unit**

MAP 5040-2

PAGE 2 OF 4

**002**

- Continue to loop on test TE2DA.
- Remove the jumper.
- Install jumper between A-A2V3D06 and A-A2V3B02 (+POR (power on reset) jumpered to +end of forms).

**Do results = 4000?**

**Y N**

**003**

Bad cable at location A-A2V3.

**004**

- Continue to loop on test TE2DA.
- Remove the jumper.
- Install jumper between A-A2S2G13 and A-A2V3B02 (+POR (power on reset) jumpered to +end of forms).

**Do results = 4000?**

**Y N**

**005**

Bad +POR (power on reset) net on I/O board A2 (FLD Page PS200).

**006**

Bad card:  
A-A2S2.

**007**

- Press the ATTN key to stop the test loop.
  - Remove the jumper.
  - Install jumper between printer cable socket 2 pin D09 (J09 for 2 wide connectors/sockets ) and cable socket 2 pin B12 (G12 for 2 wide connectors/sockets ) (-close contactor jumpered to -belt up to speed).
  - Return to the main menu and select the TU Select option.
  - Select the 3262 Printer option.
  - Select TE2D0.
- The TU description should be displayed.
- Press the Enter key (system console).
  - Select option 2 (loop on test displaying results).

(Step 007 continues)

(Step 007 continued)

**Do results = 0000?**

**Y N**

**008**

- Continue to loop on test TE2D0.
- Remove the jumper.
- Install jumper between A-A2V3D09 and A-A2V3B12 (-close contactor jumpered to -belt up to speed).

**Do results = 4000?**

**Y N**

**009**

Bad cable at location A-A2V3.

**010**

- Continue to loop on test TE2D0.
- Remove the jumper.
- Install jumper between A-A2S2S05 and A-A2V3B12 (-close contactor jumpered to -belt up to speed).

**Do results = 4000?**

**Y N**

**011**

Bad -close contactor net on I/O board A2 (FLD Page PS200).

**012**

Bad card:  
A-A2S2.

15Feb84 PN 2596084

EC 826487 PEC 826380

MAP 5040-2

C  
2

**Cable Test MAP**

MAP 5040-3

**5360 Systems Unit**

PAGE 3 OF 4

013

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Install jumper between printer cable socket 1 pin B12 and cable socket 2 pin D07 (J07 for 2 wide connectors/sockets ) (-hammer echo return jumpered to -activate paper clamp).
- Return to the main menu and select the TU Select option.
- Select the 3262 Printer option.
- Select TE2D1.

The TU description should be displayed.

- Press the Enter key (system console).
- Select option 2 (loop on test displaying results).

**Do results = 0000?**

Y N

014

- Continue to loop on test TE2D1.
- Remove the jumper.
- Install jumper between A-A2V4B12 and A-A2V3D07 (-hammer echo return jumpered to -activate paper clamp).

**Do results = 4000?**

Y N

015

Bad cable at location A-A2V4.

016

- Continue to loop on test TE2D1.
- Remove the jumper.
- Install jumper between A-A2S2S04 and A-A2V3D07 (-hammer echo return jumpered to -activate paper clamp).

**Do results = 4000?**

Y N

017

Bad -hammer echo return net on I/O board A2 (FLD Page PS200).

4 4  
D E

15Feb84      PN 2596084  
EC 826487    PEC 826380  
MAP 5040-3

D E  
3 3

**Cable Test MAP**  
**5360 Systems Unit**

MAP 5040-4

PAGE 4 OF 4

**018**

Bad card:  
A-A2S2.

**019**

This problem may be serviced as an any hammer on check in the 3262 printer MAPs.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

The contactor may be bad.

The failing test indicates that one of the following interface lines may not be at the expected level:

- hammer echo return
- +POR (power on reset)
- close contactor

Go to the 3262 printer entry MAP 0010, Entry Point A.

15Feb84      PN 2596084  
EC 826487    PEC 826380  
MAP 5040-4

**Thermal and Carriage Pedestal Check**  
**5360 Systems Unit**

MAP 5042-1

PAGE 1 OF 4

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E275	B	2	006
E275	C	3	011
E281	A	1	001
E283	A	1	001
E283	B	2	006
5004	A	1	001
5004	B	2	006

**001**

**(Entry Point A)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Measure the resistance between A-A2S2M07 and A-A2S2P08 (-thermal check 1 and Ground).

**MAP DESCRIPTION:**

This is the thermal check and carriage pedestal check MAP.

This MAP finds the failing FRU or, if necessary, goes to the 3262 printer entry MAP.

**START CONDITIONS:**

The system and printer power are on.

- Ensure that the type belt and the ribbon are installed and that the forms are loaded in the printer.
  - Check that the throat and belt covers are closed.
- Jumper PN 5785274 required.

**FRUs PARTIALLY TESTED:**

A-A2S2  
 Board wiring  
 I/O cables

**Was a resistance of between 300 and 900 ohms measured?**

Y N

Two vertical lines for marking 'Y' or 'N'.

2 2  
 A B

A B  
1 1

**Thml and Carr Ped Chk**  
**5360 Systems Unit**

MAP 5042-2

PAGE 2 OF 4

**002**

Bad card:

A-A2S2

---or---

Bad cable at location A-A2V2

---or---

Bad -thermal check 1 net on I/O board A2 (FLD  
Page PS200).

**003**

- Check continuity between printer cable socket 3 pin  
B03 and A-A2S2M07 (-thermal check 1).

**Was continuity OK?**

Y N

**004**

Bad cable at location A-A2V2

---or---

Bad -thermal check 1 net on I/O board A2 (FLD  
Page PS200).

**005**

The -thermal check 1 interface line is not at the  
expected level.

- Record the indicated error or symptom for use in the  
3262 printer entry MAP.

- Select mode 6.

- Press the Power key (power off).

- Reinstall any cables removed earlier.

- Reinstall any logic cards removed earlier.

- Press the Power key (power on).

- Set the printer Unit Emergency switch to the Power  
Enable position.

- Select mode E.

- Enter FF00.

- Insert diskette DIAG21.

- Press the Load key.

- Select the TU Select option.

- Select the 3262 Printer option.

- Select TE217 which loads the 3262 printer functional  
microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**006**

**(Entry Point B)**

- Set the printer Unit Emergency switch to the Power  
Off position.

- Select mode 6.

- Press the Power key (power off).

- Disconnect printer cables 1, 2 and 3 (blue) at the  
cable tower (50-230).

- Measure the resistance between A-A2S2M08 and  
A-A2S2P08 (-thermal check 2 and Ground).

**Was a resistance of between 300 and 900 ohms  
measured?**

Y N

**007**

Bad card:

A-A2S2

---or---

Bad cable at location A-A2V2

---or---

Bad -thermal check 2 net on I/O board A2 (FLD  
Page PS200).

**008**

- Check continuity between printer cable socket 3 pin  
D05 and A-A2S2M08 (-thermal check 2).

**Was continuity OK?**

Y N

**009**

Bad cable at location A-A2V2

---or---

Bad -thermal check 2 net on I/O board A2 (FLD  
Page PS200).

15Feb84

PN 2596085

EC 826487

PEC 826380

MAP 5042-2

**Thml and Carr Ped Chk**  
**5360 Systems Unit**

PAGE 3 OF 4

**010**

The -thermal check 2 interface line is not at the expected level.

- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**011****(Entry Point C)**

- Set the printer Unit Emergency switch to the Power Off position.
- Select mode 6.
- Press the Power key (power off).
- Disconnect printer cables 1, 2 and 3 (blue) at the cable tower (50-230).
- Install jumper between printer cable socket 2 pin D10 (J10 for 2 wide connectors/sockets ) and cable socket 1 pin B02 (-carriage pedestal check jumpered to -data bit 0).
- Press the Power key (power on).
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU select option.
- Select the 3262 printer option.
- Select TE2DB.
- Loop on test TE2DB.

**Do results = 0000?**

**Y N**

**012**

- Continue to loop on test TE2DB.

**Do results = 4000?**

**Y N**

**013**

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
 Down Light: On

A-A2S2M09 (-carriage pedestal check).  
 (Step 013 continues)

15Feb84 PN 2596085

EC 826487 PEC 826380

MAP 5042-3

**Thml and Carr Ped Chk**  
**5360 Systems Unit**

PAGE 4 OF 4

(Step 013 continued)

**Are the lights correct?**

Y N

**014**

Bad card:  
A-A2S2.

**015**

Bad cable at location A-A2V3

---or---

Bad -carriage pedestal check net on I/O board A2  
(FLD Page PS200).

**016**

- Continue to loop on test TE2DB.
- Remove the jumper.
- Install jumper between A-A2V3D10 and A-A2V4B02  
(-carriage pedestal check jumpered to  
-data bit 0).

**Do results = 4000?**

Y N

**017**

Bad cable at location A-A2V3.

**018**

- Continue to loop on test TE2DB.
- Remove the jumper.
- Install jumper between A-A2S2M09 and A-A2T2M04  
(-carriage pedestal check jumpered to  
-data bit 0).

**Do results = 4000?**

Y N

**019**

Bad -carriage pedestal check net on I/O board A2  
(FLD Page PS200).

**020**

Bad card:  
A-A2S2.

**021**

The -carriage pedestal check interface line is not at the expected level.

- Press the ATTN key to stop the test loop.
- Remove the jumper.
- Record the indicated error or symptom for use in the 3262 printer entry MAP.
- Select mode 6.
- Press the Power key (power off).
- Reinstall any cables removed earlier.
- Reinstall any logic cards removed earlier.
- Press the Power key (power on).
- Set the printer Unit Emergency switch to the Power Enable position.
- Select mode E.
- Enter FF00.
- Insert diskette DIAG21.
- Press the Load key.
- Select the TU Select option.
- Select the 3262 Printer option.
- Select TE217 which loads the 3262 printer functional microcode into the printer controller.

Go to the 3262 printer entry MAP 0010, Entry Point A.

**Printer Data Protect Error MAP**

MAP 5044-1

**5360 Systems Unit**

PAGE 1 OF 3

**ENTRY POINTS**

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
E259	A	1	001

**001**

**(Entry Point A)**

- Select mode 6.
- Press the Power key (power off).
- Remove the 3262 printer attachment card at A-A2S2.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
 Down Light: On

A-A2S2B06 (- Data protect).

**Are the lights correct?**

Y N



**002**

Bad card:  
 A-A2S2

**003**

- Select mode 6.
- Press the Power key (power off).
- Disconnect cable at A-A1A5.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
 Down Light: On

A-A1A5D13 (- data protect).

**Are the lights correct?**

Y N



2 2  
 A B

**MAP DESCRIPTION:**

This is the printer - data protect MAP. This MAP finds the failing FRU.

**START CONDITIONS:**

The system and printer power are on.

**FRUs PARTIALLY TESTED:**

- A-A1C2, A1D2, A2C2, A2D2, A2S2
- Power protect card
- Board wiring
- System cables

A B  
1 1

**Printer Data Protect Error MAP**

**5360 Systems Unit**

PAGE 2 OF 3

**004**

Go to Page 3, Step 014, Entry Point B.

**005**

- Set CB1 to the Off position (05-215).
- Reinstall the cable. A1A5.
- Disconnect cable at A-A2Z4.
- Set CB1 to the On position (05-215).
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A1A5D13 (- data protect).

**Are the lights correct?**

Y N

**006**

Bad cable:  
A2Z4  
---or---

Bad board:  
A3.

**007**

- Select mode 6.
- Press the Power key (power off).
- Remove and identify the following cards if installed:  
A1C2  
A1D2  
A2C2  
A2D2.

- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A1A5D13 (- data protect).

**Are the lights correct?**

Y N

C D

C D

MAP 5044-2

**008**

- Select mode 6.
- Press the Power key (power off).
- Reinstall A1C2 or A2C2 removed in the preceding step.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A1A5D13 (- data protect).

**Are the lights correct?**

Y N

**009**

Bad card:  
A1C2  
---or---  
A2C2.

**010**

Bad card:  
A1D2  
---or---  
A2D2.

**011**

- Select mode 6.
- Press the Power key (power off).
- Disconnect cable at A1Z1.
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A1A5D13 (- data protect).

**Are the lights correct?**

Y N

3 3  
E F

15Feb84

PN 2596086

EC 826487

PEC 826380

MAP 5044-2

E F  
2 2

**Printer Data Protect Error MAP**

MAP 5044-3

**5360 Systems Unit**

PAGE 3 OF 3

**012**

Bad cable:  
A1Z1  
---or---  
Bad board:  
A2.

**013**

Bad board:  
A1.

**014**

**(Entry Point B)**

- Set CB1 to the Off position (05-215).
- Reinstall the cable: A1A5.
- Disconnect cable J4A (control panel).
- Set CB1 to the On position (05-215).
- Press the Power key (power on).
- Probe the following:

Up Light: Off  
Down Light: On

A-A1A5D13 (- data protect).

**Are the lights correct?**

**Y N**

**015**

Bad card:  
Power protect  
---or---  
Bad cable:  
J4D (control panel)  
---or---  
Bad control panel.

**016**

- Set CB1 to the Off position (05-215).
- Bad cable:  
J4A (control panel).

15Feb84

PN 2596086

EC 826487

PEC 826380

MAP 5044-3