## "DATASPEED*" 40/3

## WITH 9140 STATION CONTROLLER

## DISASSEMBLY/REASSEMBLY AND PARTS

## 1. GENERAL

1.01 This practice covers the DATASPEED 40/3 Station Arrangements, and provides the information necessary to disassemble and reassemble DATASPEED 40/3 and associated equipment.

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

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1.03    The following warnings and danger are to be used as safety measures for the apparatus and the craftsperson.

*Warning 1:    Turn off all the power and signal sources before removing or replacing any component.*

*Warning 2:    To avoid possible internal damage to circuitry, wear a 346392 static discharge strap connected to ground to allow static discharge before handling circuit cards for removal or replacement. Avoid touching circuit lands or components as much as possible.*

Attach static ground strap tightly to wrist.    Attach clip end of static discharge strap to frame ground.

*Danger:    Safety glasses must be worn whenever monitor cover is removed or whenever monitor is replaced.*

*Warning 3:    Place listed card in an RM150592 static bag immediately after removal from unit. Do not place any printer paper in the bag with the card. Keep the card in the static bag at all times. Never handle the card outside the bag without wearing a properly grounded 346392 static ground strap.*

### Cards List

Printer (410071, 410072, 410076, 410640 and 410729)
Controller — All Cards
(Not Monitor Cards)
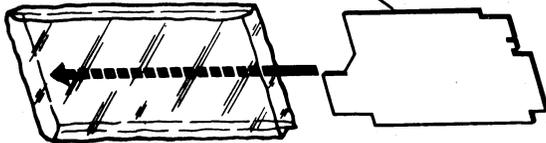
1.04    Disassembly and parts information for individual components in the 40/3 Station can be found in the following BSPs:

582-210-702 DATASPEED 40 Printer
582-211-700 DATASPEED 40 Operator Console
582-212-700 DATASPEED 40 Cabinets
582-213-701 DATASPEED 40 Display Monitor
582-214-700 DATASPEED 40 Power Supplies

1.05    Reverse the disassembly instructions in order to reassemble the station components.

1.06    Disassembly information in this section is divided into ROP, and KD or KDP information. If your station arrangement is a KD-ROP, KD&ROP, or KDP&ROP, use the ROP information in this section for the ROP portion of your station, and the KD or KDP information of this section for the KD or KDP portions of your station.

## 2.    KD AND KDP

*Caution:    Remove all power from the set before performing any component replacement or conversions. This does not apply to cover removal for access to test switches, or to power on adjustments of the monitor.*

### MONITOR

① Removal of entire monitor unit from set:
Grasp monitor by sides near supports and simply lift up. Electrical cable connectors are part of support assembly.

② Removal of monitor housing:
Tilt monitor back and disengage latch.
Slide housing back partially.
Position monitor to its normal position making sure it locks in that position.
Remove housing completely.
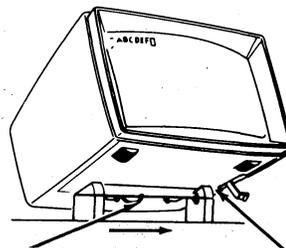
LATCH RELEASE

TILT RELEASE
(When Housing is Removed)
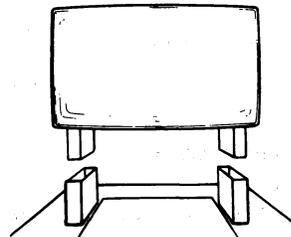
WEAR SAFETY GLASSES

## OPERATOR CONSOLE

①Place thumb on inward tab of console (both sides).

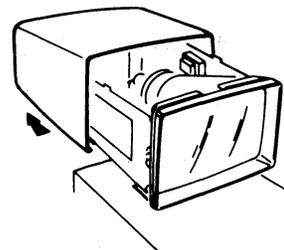②Press downward into unlatched position (each side).

③Remove console. (When replacing console, make sure locating pins are fully engaged before pushing latchlevers upward into locked position.)



LATCHLEVER

40K101/CAK
(KD or KDP Applications)

ALIGN
(Each Side)

## ELECTRONICS PACKAGE AND POWER SUPPLY

A.  KD or KDP (Logic Under Monitor)

To remove cards or power supply:

①Open lid.

②Insert fingers as shown and lift then pull module forward.

*Note:*  Do not attempt to lift at opcon (if present).
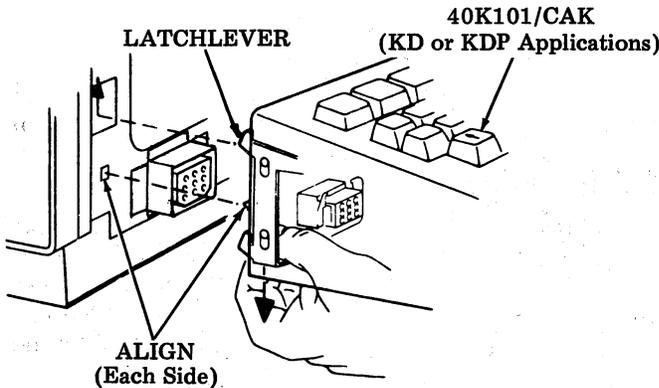
③Move module forward until blocked by latch to provide sufficient clearance for card removal.



To remove circuit cards (see below):

①Lift handle(s) carefully.

②Remove circuit card.

To remove and replace power supply (see below):

①Disconnect ac power cord.

②Remove insulator.

③Remove 5 screws. Remove cable and wires from terminal strip.

④Loosen screw sufficient to raise and turn retaining bracket away from handle.

⑤Use handle to lift out power supply.

⑥Replace power supply making sure to seat on locating pins.

⑦Replace wires and just start screws. Then slip in cable terminals and tighten screws.

⑧Replace insulator and plug in ac power cord and reposition retaining bracket.



BLUE
RED
BLACK
YELLOW
WHITE

To remove electronics package:

④ Early Design Only
Raise 401783 bracket
enough to slide 341891
monitor cable underneath.

⑥ Release latch on right side of
cabinet and slide module out
of cabinet.

⑤ Remove † 341891 monitor cable
from grooves in fan assembly
frame and display logic frame.
Lower 401783 bracket and engage
clip to side of module.

Belted Fan Assembly

① Slide module out of
40CAB251/AB
cabinet far enough
to engage latch on
right side of cabinet.

40CAB251/AB
LOGIC CABINET

② Reach in and disconnect
† 401633 ac power cable
attached to back of fan
assembly.

† 400599
AC DISTRIBUTION
ASSEMBLY

Receptacle for 341891
cable plug.

Beltless Fan Assembly

③ Loosen 341819 shoulder screw attached to
fan assembly frame where the guide in the
display logic aligns with tapped hole in fan
assembly. Slide clip attached to 341891 cable
out from under lip of display logic frame.
Remove cable.

341819

DISPLAY LOGIC
FRAME

341891 CABLE
TO MONITOR
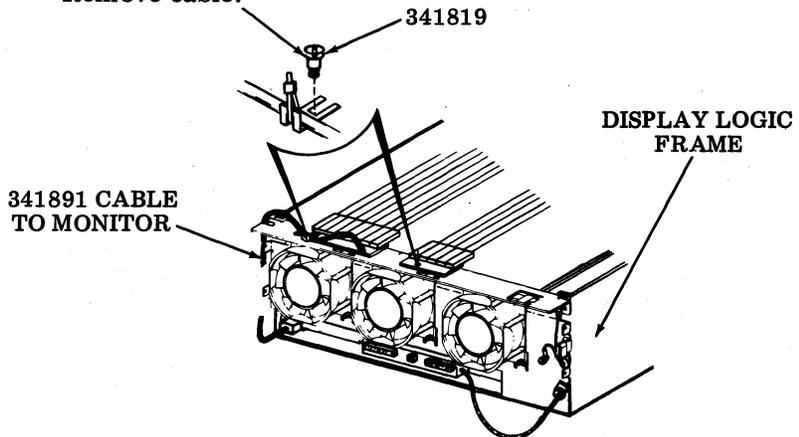
† Supplied with cabinet

**B. KDP (Logic in Pedestal)**

BLUE
RED
BLACK
YELLOW
WHITE

Colors

③ Open cover (2 screws) and engage wire hook unless module is being removed.

**Display Logic:**
Perform ① , ② , ③ , ⑥ , ⑦ , ⑧ , ⑨ , and ⑩ . Remove 2 screws (see WIRED FRAME — Page 7).

② Disconnect cables if module is to be removed.

‡ <u>Power Supply:</u>
Perform ① and ③ .
⑥ Remove 2 cables.
⑦ Remove 115 V ac connector.
⑧ Lift out power supply by its handle.

<u>Fan Assembly:</u>
Perform ① , ② , ③ , and ⑦ .
⑨ Remove 4 screws from the rear of fan assembly.

④ If desired remove 9140 Station Controller (Page 18).

⑩ <u>Controller:</u>
Perform ① , ② , ③ , ⑥ , ⑦ , and ⑨ . Remove short cable and 2 screws (see WIRED FRAME — Page 6).

① Slide tabs inward and open panel CAREFULLY (attached electronics package weighs approximately 50 lbs). Handle latches.

<u>Electronics Package Enclosure:</u>
Perform ① , ② , and ③ .
⑤ Remove 2 screws on bracket. Lift bracket up and remove.

‡ To reinstall power supply, seat it on locating pins in the base of the enclosure. Cables are routed over handle.

341893 MONITOR CABLE

345603 9140 INTERFACE CABLE

341895 PRINTER CABLE

*Note:* If terminal is KD-ROP, 341896 cable is used.

*Note:* If terminal is KD&ROP or KDP&ROP, 345613 cable is used.

401641 OPCON CABLE
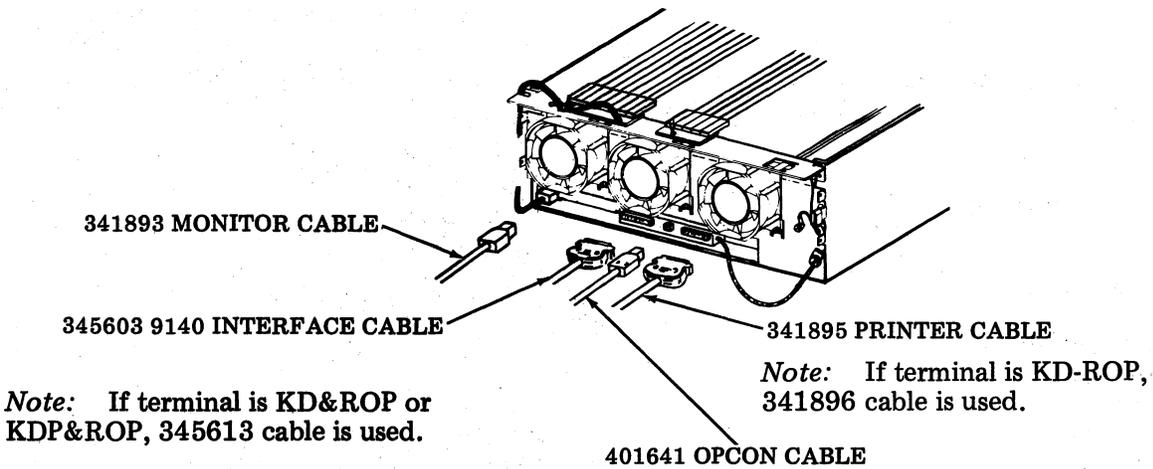
WIRED FRAME

A. KD or KDP (Logic Under Monitor)
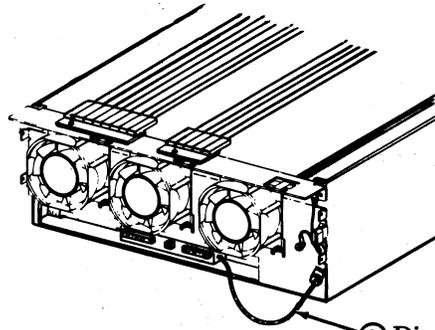
② Disconnect braided ground strap.

① Remove 341819 shoulder screws.

125015

3598

2191

198670
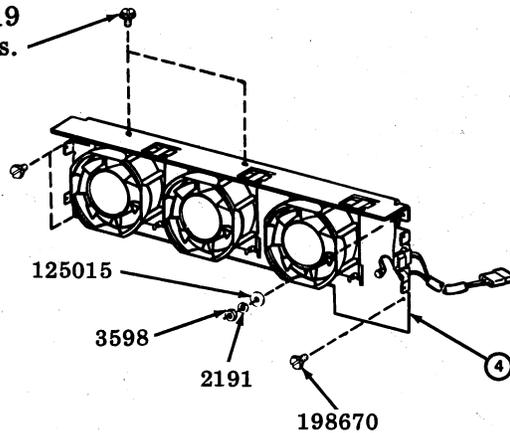
④ Remove fan assembly mounting hardware.

*Note:* Fan assembly may be earlier design belted fan assembly.

⑤ Remove power supply.
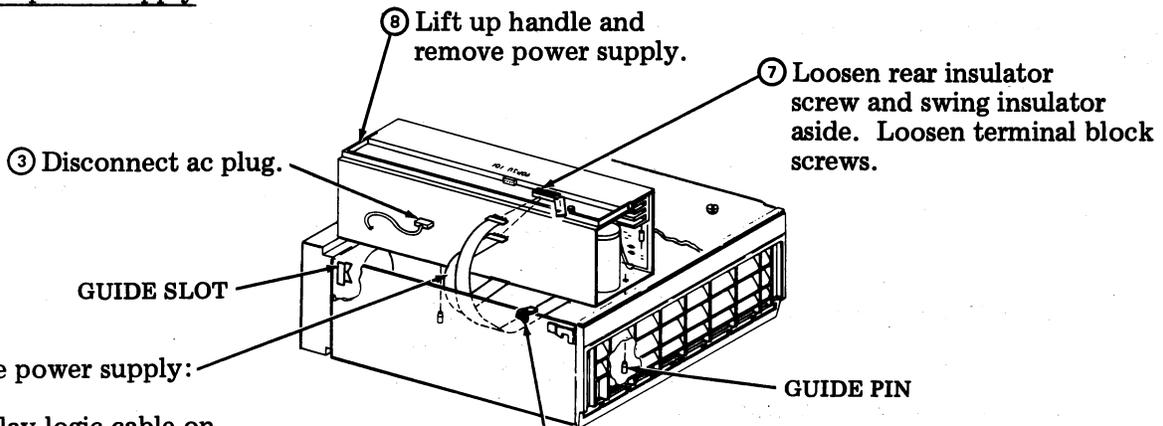
⑧ Lift up handle and remove power supply.

③ Disconnect ac plug.

⑦ Loosen rear insulator screw and swing insulator aside. Loosen terminal block screws.

GUIDE SLOT

To replace power supply:

Place display logic cable on terminal strip (flat terminals) and then controller cable (formed terminals) on top, and tighten screws.

GUIDE PIN

⑥ Loosen 401688 clamp screw and swing 401710 clamp aside.

① Remove 401253 bracket.

② Dislodge opcon connector from bracket.

③ Remove 402166 cable protector (if present). Feed 341860 opcon cable carefully out of cable tray.

④ Remove 341740 ribbon cable.

⑤ Remove controller wired frame. (Frame may still have cards mounted.)

⑥ Remove display logic wired frame. (Frame may still have cards mounted.)
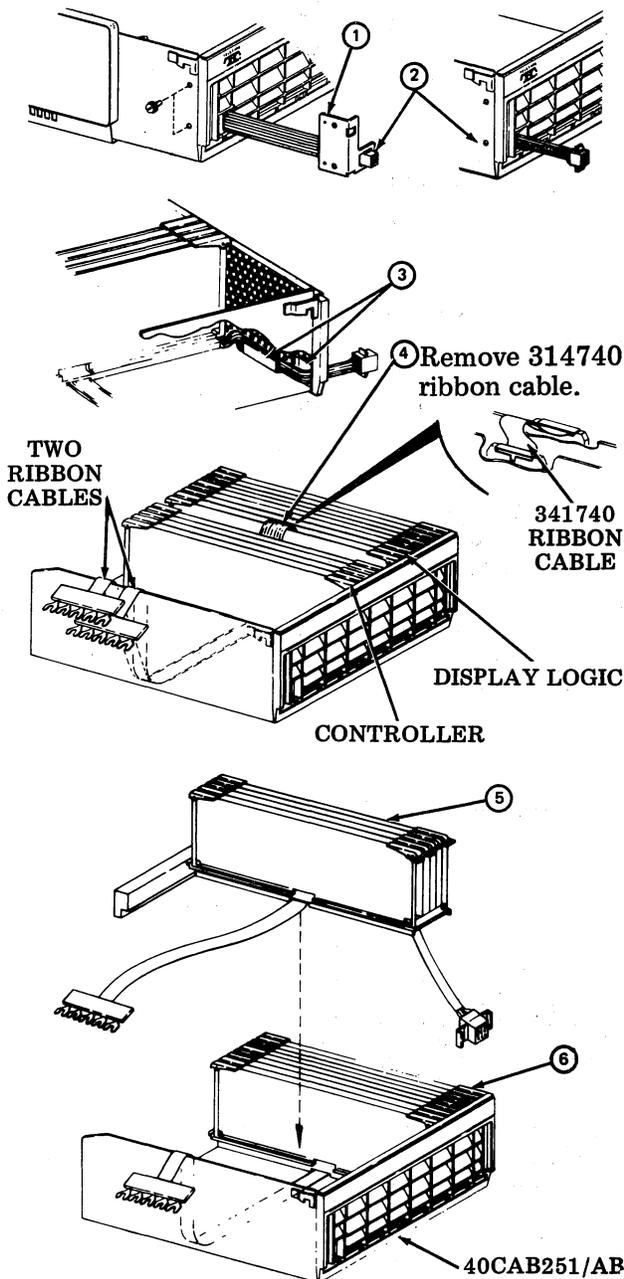
B. KDP (Logic in Pedestal)

① Remove four hinge screws, then loosen two thumbscrews and remove cover.

② Disconnect ac plug.

③ Remove fan and shroud.

*Note:* Fan assembly may be earlier design belted fan assembly.

④ Loosen rear insulator screw and swing insulator aside. Loosen terminal block screws. Remove ribbon cables.

⑤ Lift up handle and remove power supply.
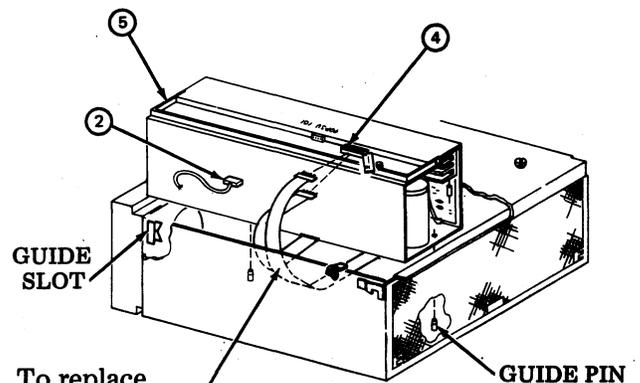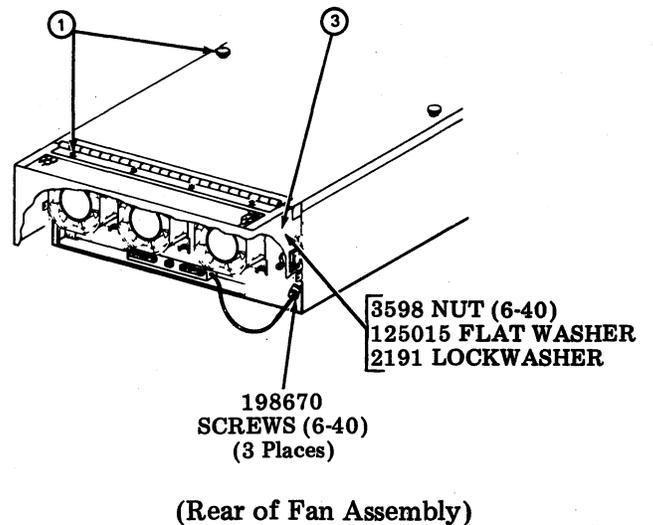
3598 NUT (6-40)
125015 FLAT WASHER
2191 LOCKWASHER

198670
SCREWS (6-40)
(3 Places)

(Rear of Fan Assembly)

TWO RIBBON CABLES

④ Remove 314740 ribbon cable.

341740 RIBBON CABLE

DISPLAY LOGIC

CONTROLLER

40CAB251/AB

GUIDE SLOT

GUIDE PIN

To replace power supply:

Place display logic cable on terminal strip (flat terminals) and then controller cable (formed terminals) on top, and tighten screws.

CIRCUIT CARDS

If any field options are to be changed or checked for proper position, turn off power and remove cards using the following procedures.

The station feature and option record or W—DJOAC should be marked to show any options that differ from factory furnished and should be filled in to indicate what features have been provided in the set or station.

① Extracting circuit card.

CIRCUIT CARD
PART NUMBER

EXTRACTOR
HANDLE

CIRCUIT CARD
POSITION LABEL

CIRCUIT CARD BRACKET

CIRCUIT CARD

② Activating options.

OPTION SWITCHES

ORANGE STICK

SWITCH NUMBERS

A. Controller

410676
SEND VARIATIONS

410672 OPCON EIA

05
04
03
02
01
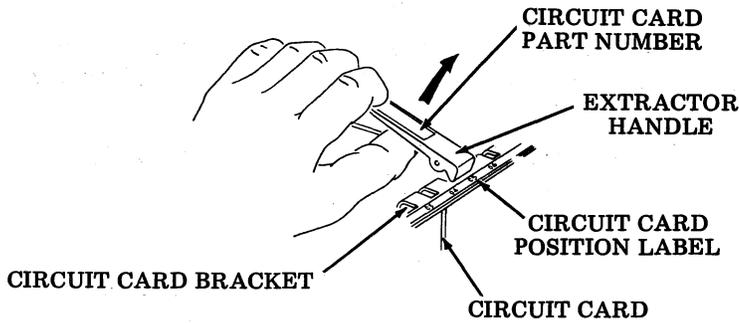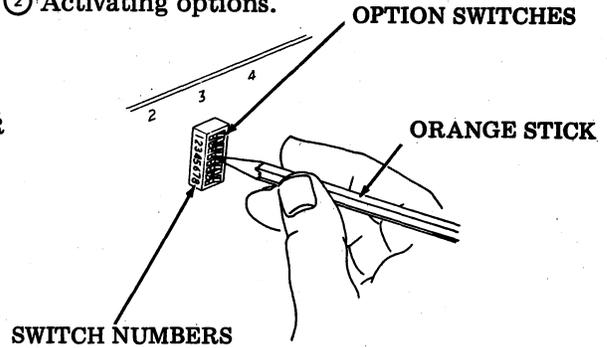
See chart for wired
frame number.
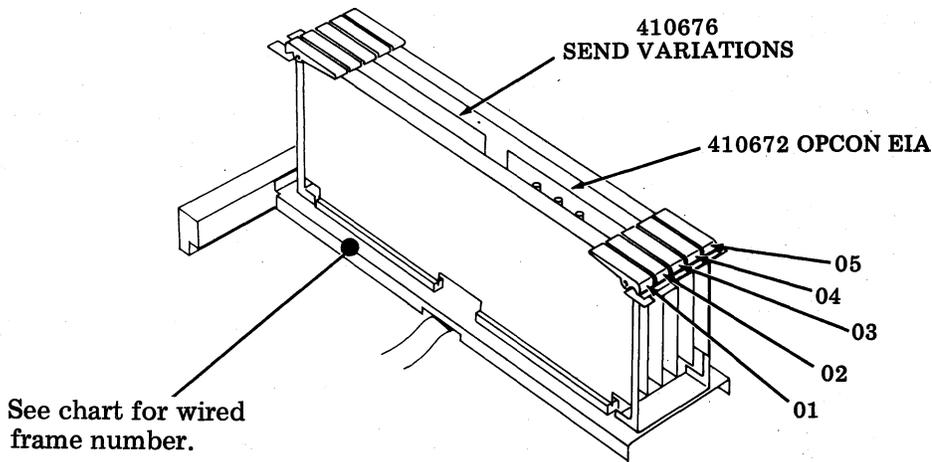
| Position | 40C202/BE | 40C202/BF | Card Description |
|----------|-----------|-----------|------------------|
| 01 | | 410770 | Printer Interface |
| 02 | 410771 | 410771 | 9140 Interface |
| 03 | 410672 | 410672 | Opcon Interface |
| | 410676 | 410676 | Send Variations |
| 04 | 410675 | 410675 | Message Control |
| 05 | 410674 | 410674 | Data Bus and Decode |
| Wired Frame | 341909 | 341909 | |

B. Display Logic

410003
ADDRESS
COUNTER

AUXILIARY    MEMORY

SEGMENT NO. 1

SEGMENT NO. 2        (See chart below for the
circuit cards installed
per set coding.)

SEGMENT NO. 3

410001 EDIT OR
410009 OR 410018
CONTINUOUS SCROLLING

See Character Generator
chart below.

410855
VIDEO GENERATOR

410002
DATA CONTROL

341672
WIRED FRAME

POWER CABLE

014
013
012 — NO. 3
011 — NO. 2
010 — NO. 1
09
08
07
06
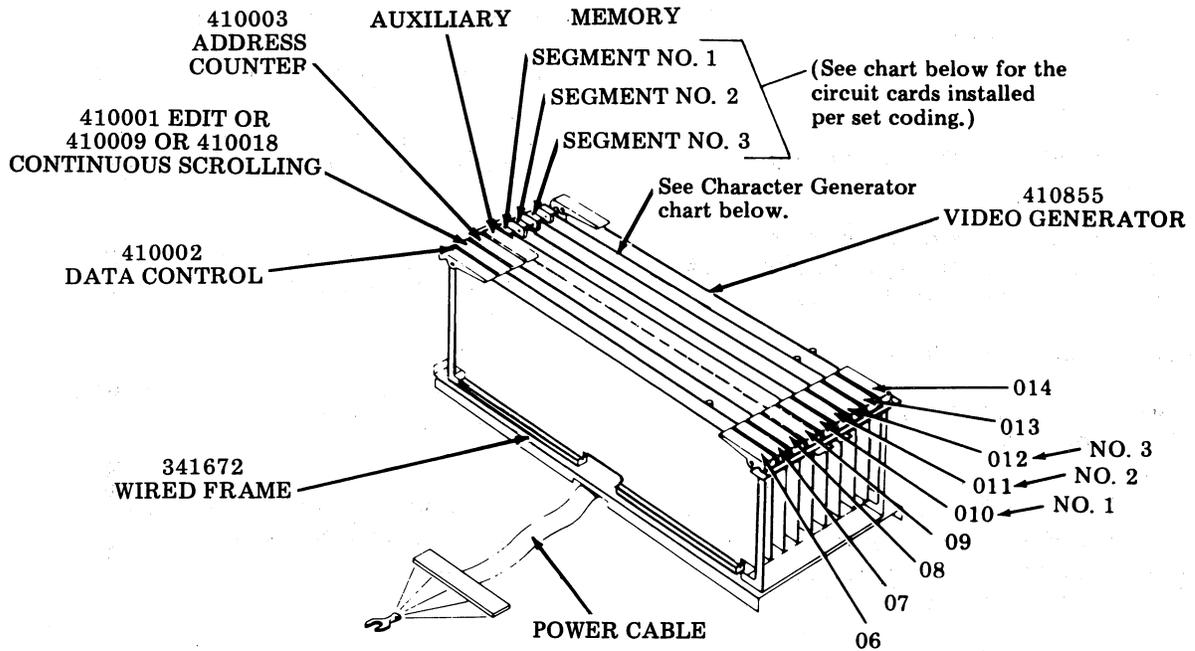
| POSITION NUMBER | 40DL291/ZZ | 40DL291/BR | 40DL291/BS | CIRCUIT CARD DESCRIPTION |
|---|---|---|---|---|
| 06 | 410002 | 410002 | 410002 | Data Control |
| 07 | 410001 | 410018 | ¶ | Edit |
| 08 | 410003 | 410003 | 410003 | Address Counter |
| 09 | — | — | — | — |
| 010 | — | — | — | Memory Segment No. 1 § |
| 011 | — | — | — | Memory Segment No. 2 § |
| 012 | — | — | — | Memory Segment No. 3 § |
| 013 | 410657 | 410657 | 410657 | Cache and Character Generator |
| 014 | 410855 | 410855 | 410855 | Video Generator |
| Wired Frame | 341672 | 341672 | 341672 | — |

§ Memory circuit cards (410014 or 410004 — basic edit, 410015 or 410005 — full edit) are ordered separately. The 410014 and 410004 circuit cards are physically and functionally interchangeable, and similarly 410015 and 410005 are physically and functionally interchangeable.

¶ Edit circuit cards (410001 or 410018 which also provides continuous scrolling features) are ordered separately for 40DL291/BS display logic. The 410009 circuit card is manufacture discontinued.

Various cache and character generator circuit cards are available as indicated in the following chart.

| CHARACTER GENERATOR OPTIONS | |
|---|---|
| POSITION 013 | DISPLAY TYPE |
| 410657 | Standard ASCII |
| 410020 | Line Drawing |
| 410021 | Fractions |
| 410022 | Weather |

PRINTER

A. KDP (Adjacent Printer)

Friction Feed Printer

To remove and replace entire printer assembly:

*Note:* The circuit card can be removed after step 4 of disassembly. If printer is not being removed omit steps 2 and 3.

① Turn power off. Open cover.

② Disconnect the interlock cable (P106) connector.

③ Remove paper roll.

④ Release printer and raise to the tilt position by depressing the left and right release levers and lifting printer.

⑤ Disconnect the 115 V ac connector.

⑥ Disconnect SSI cable (P103) from printer cable.

⑦ Release (push in) the printer slide detents and pull the printer out by grasping it by the frame (front bottom).
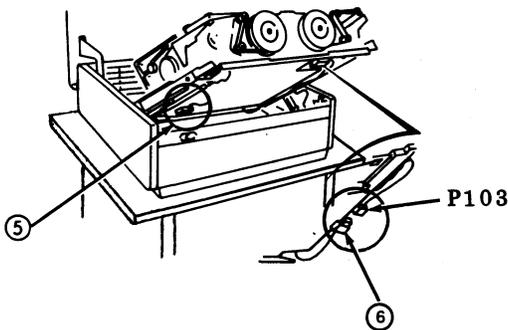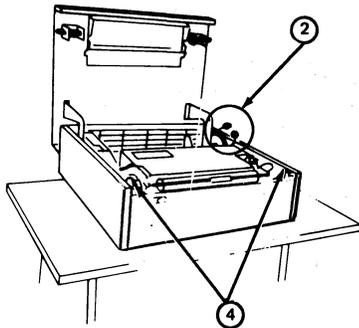




Tractor Feed Printer—80-and 132-Column Printers (Printer shown is 80-Column.)

① Turn power off. Open cover.

② Remove paper by releasing paper guide and opening forms tractors.

③ Release printer to tilt position by pressing left and right latchlevers to rear.

④ Insert screwdriver in right mounting track and pry up detent.

⑤ Pull printer forward by grasping handle at top, and slide off mounting tracks.
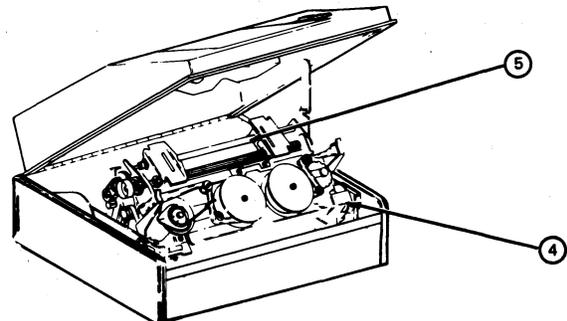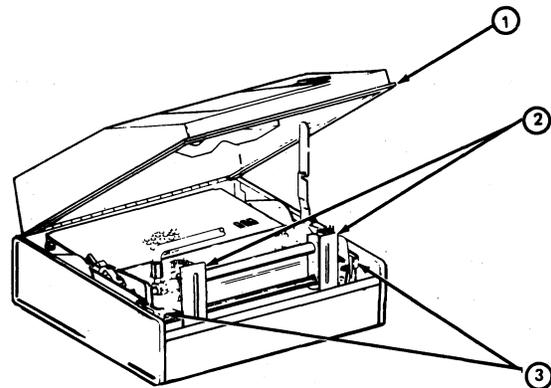




In reassembly make sure connectors at rear are fully connected.

B.    KDP (Printer Under Monitor)

Friction Feed Printer

①  Turn pedestal and cabinet power OFF.  (Depress lower half.)

②  Open lid.  Lift slide release latches and slide printer module forward about three inches.

③  Release paper latch and remove paper.  Keep spindle with printer.

④  Disconnect cabinet interlock switch connector.

⑤  Depress release levers and raise printer.

⑥  Disconnect ac power connector.

⑦  Disconnect SSI connector.

⑧  Depress detents and slide printer out.

C.  Circuit Card Removal

Friction Feed (410076 or 410640 Circuit Card)

*Danger:  Service personnel should wear 346392 protective ground strap for this procedure.*

FINGER HOLD

PULL
POINT

GRIP
HERE

④

SSI

③ Using finger hold and a firm grip of card edge on opposite side as shown, use an even pulling force and unplug printer logic card from two rows of magnet assembly contacts.

④ Carefully lift bottom edge of card out from metal channel and unplug J3 connector from edge contacts of card. Remove card.

② Disconnect printer P103 cable connector from the SSI connector (400921).

CARD

CHANNEL

① With the printer in the "ribbon changing or maintenance position", remove two screws that secure paper chute to bottom of printer and allow the chute to hinge down.

*Note 1:*  During reassembly, make certain that the J3 connector is plugged onto the card and that the card is located within the channel before plugging it into the two rows of magnet assembly contacts. Apply slight pressure at both ends and middle of card to fully seat it on magnet contacts.

*Note 2:*  If a new 410076 or 410640 circuit card is replaced, perform the Impeller Shaft Sensor and the Flag Sensor adjustment after card is mounted in printer.

Tractor Feed (410071, 410072, 410076, 410640 or 410729)

*Note:*  If a new printer logic card is replaced, perform the Impeller Shaft Sensor and the Flag Sensor adjustments after card is mounted in the printer.

① Remove two screws.

④ 80-Column:
410076 or 410640 circuit card — Remove connector from card and using pull points shown above, pull card down and out.

410071 circuit card — Use procedure under heading "132-Column".

132-Column:
410072 or 410729 circuit card — Unplug P109 flat cable from left side of printer logic circuit card. Slide to left. Lift left-hand side of circuit card away from printer to a 90° position. Unplug P106 sensor and P103 power supply cable from logic card.

③ Slide plate out.

② Loosen three screws.

3. ROP

PRINTER

A. Removal and Replacement of Entire Printer Assembly

*Note:* The 410640 circuit card can be removed when printer is in maintenance position.

① Open cover.

② Disconnect interlock cable connector P106.

③ Remove paper roll.

④ Release printer to tilt position by depressing left and right release levers.

⑦ Release (push in) printer slide detents and pull printer out by grasping it by the frame (front bottom).

⑤ Disconnect 115 V ac connector J100.

⑥ Disconnect SSI cable from printer cable.

⑧ Reverse the order to install printer.

P103

⑨ To remove printer cabinet from pedestal, disconnect two cables and withdraw ac power cord from pedestal after unplugging from convenience receptacle.

AC POWER CORD
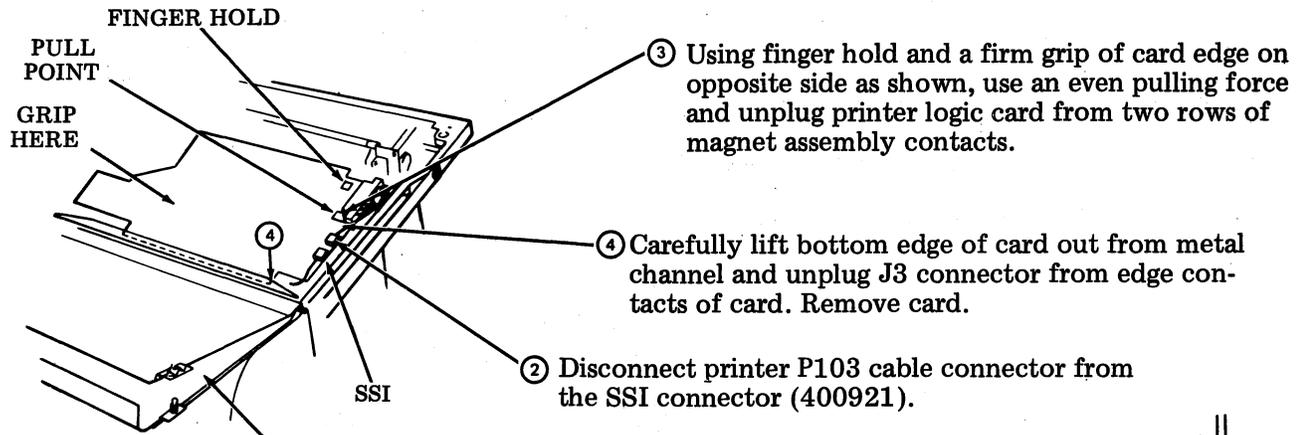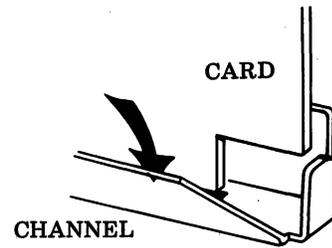
B.   Circuit Card Removal

Friction Feed (410076 or 410640 Circuit Card)

*Danger:   Service personnel should wear 346392 protective ground strap for this procedure.*

FINGER HOLD

PULL
POINT

GRIP
HERE

④

SSI

③ Using finger hold and a firm grip of card edge on opposite side as shown, use an even pulling force and unplug printer logic card from two rows of magnet assembly contacts.

④ Carefully lift bottom edge of card out from metal channel and unplug J3 connector from edge contacts of card. Remove card.

② Disconnect printer P103 cable connector from the SSI connector (400921).

CARD

CHANNEL

① With the printer in the "ribbon changing or maintenance position", remove two screws that secure paper chute to bottom of printer and allow the chute to hinge down.
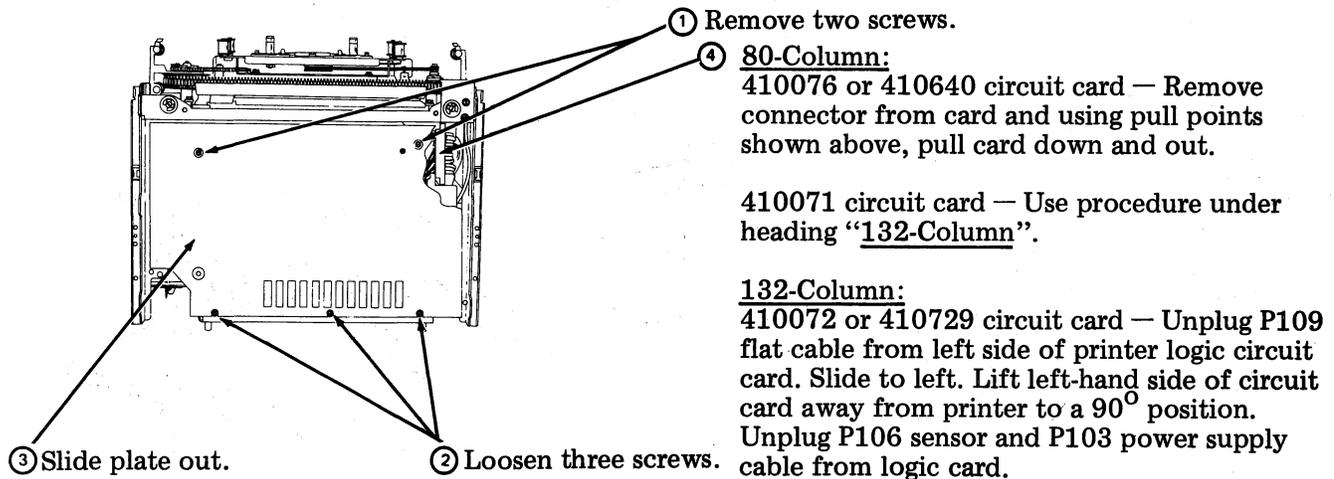
*Note 1:*   During reassembly, make certain that the J3 connector is plugged onto the card and that the card is located within the channel before plugging it into the two rows of magnet assembly contacts. Apply slight pressure at both ends and middle of card to fully seat it on magnet contacts.

*Note 2:*   If a new 410076 or 410640 circuit card is replaced, perform the Impeller Shaft Sensor and the Flag Sensor adjustment after card is mounted in printer.

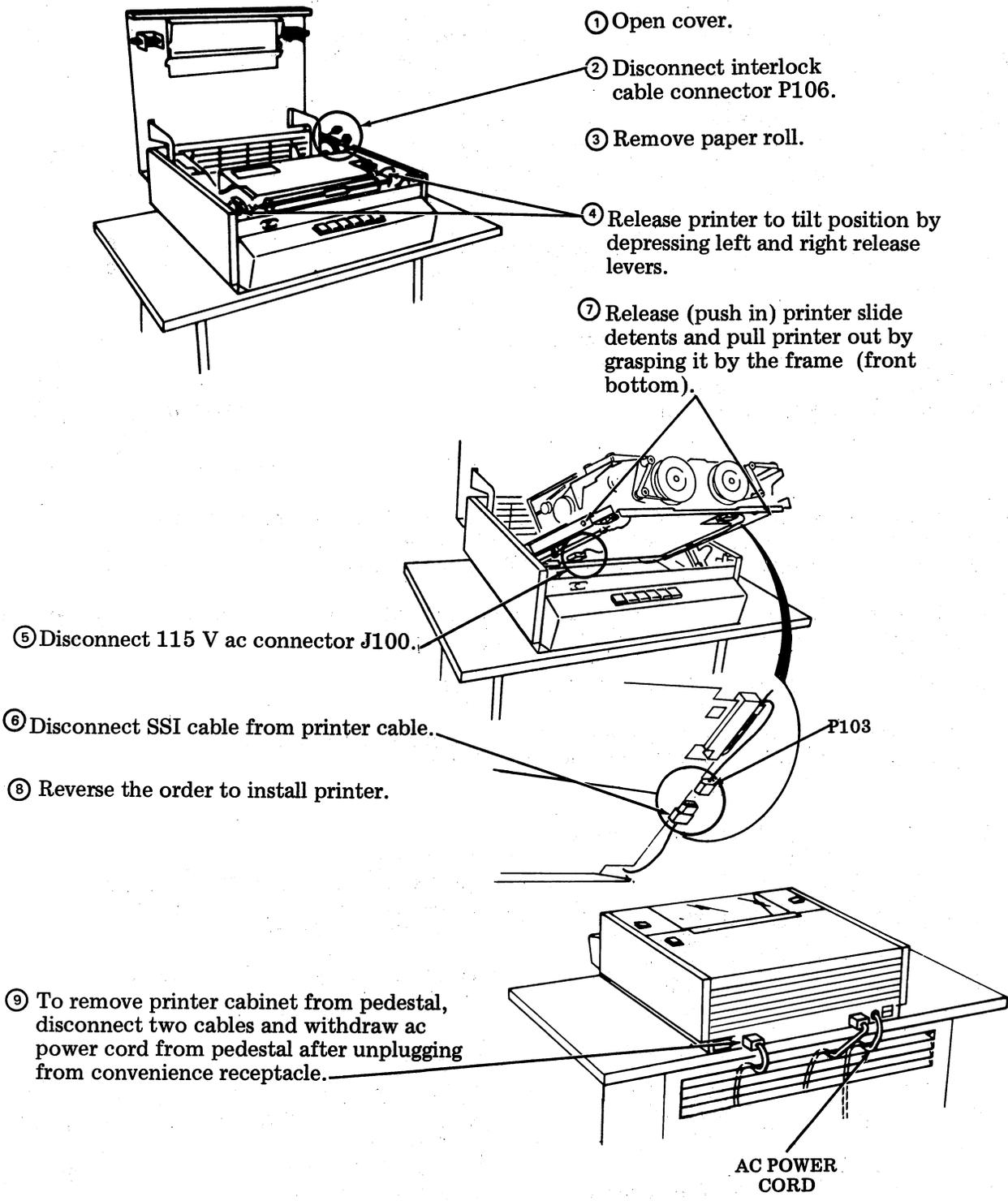Tractor Feed (410071, 410072, 410076, 410640 or 410729)

*Note:*   If a new printer logic card is replaced, perform the Impeller Shaft Sensor and the Flag Sensor adjustments after card is mounted in the printer.

① Remove two screws.

④ 80-Column:
410076 or 410640 circuit card — Remove connector from card and using pull points shown above, pull card down and out.

410071 circuit card — Use procedure under heading "132-Column".

132-Column:
410072 or 410729 circuit card — Unplug P109 flat cable from left side of printer logic circuit card. Slide to left. Lift left-hand side of circuit card away from printer to a 90° position. Unplug P106 sensor and P103 power supply cable from logic card.

③ Slide plate out.

② Loosen three screws.

OPERATOR CONSOLE

40K001/AAA

LATCHLEVER

ALIGN
(Each Side)

① Place thumb on inward tab of console (both sides).

② Press downward into unlatched position (each side).

③ Remove console.  (When replacing console, make sure locating pins are fully engaged **before pushing** latchlevers upward into locked position.)

ELECTRONICS PACKAGE AND POWER SUPPLY

EXTRACTOR
HANDLE

③ Remove retaining bar
(two screws).

② Disconnect cables from
fan assembly.

Extracting Circuit Card Book

Fan Assembly:
Perform ①,②, and⑥.
⑧ Remove four screws
from rear of fan
assembly.

Controller:
Perform ① and ③.
⑨ Lift extractor to remove.

Electronics Package Enclosure:
Perform ① and ②.
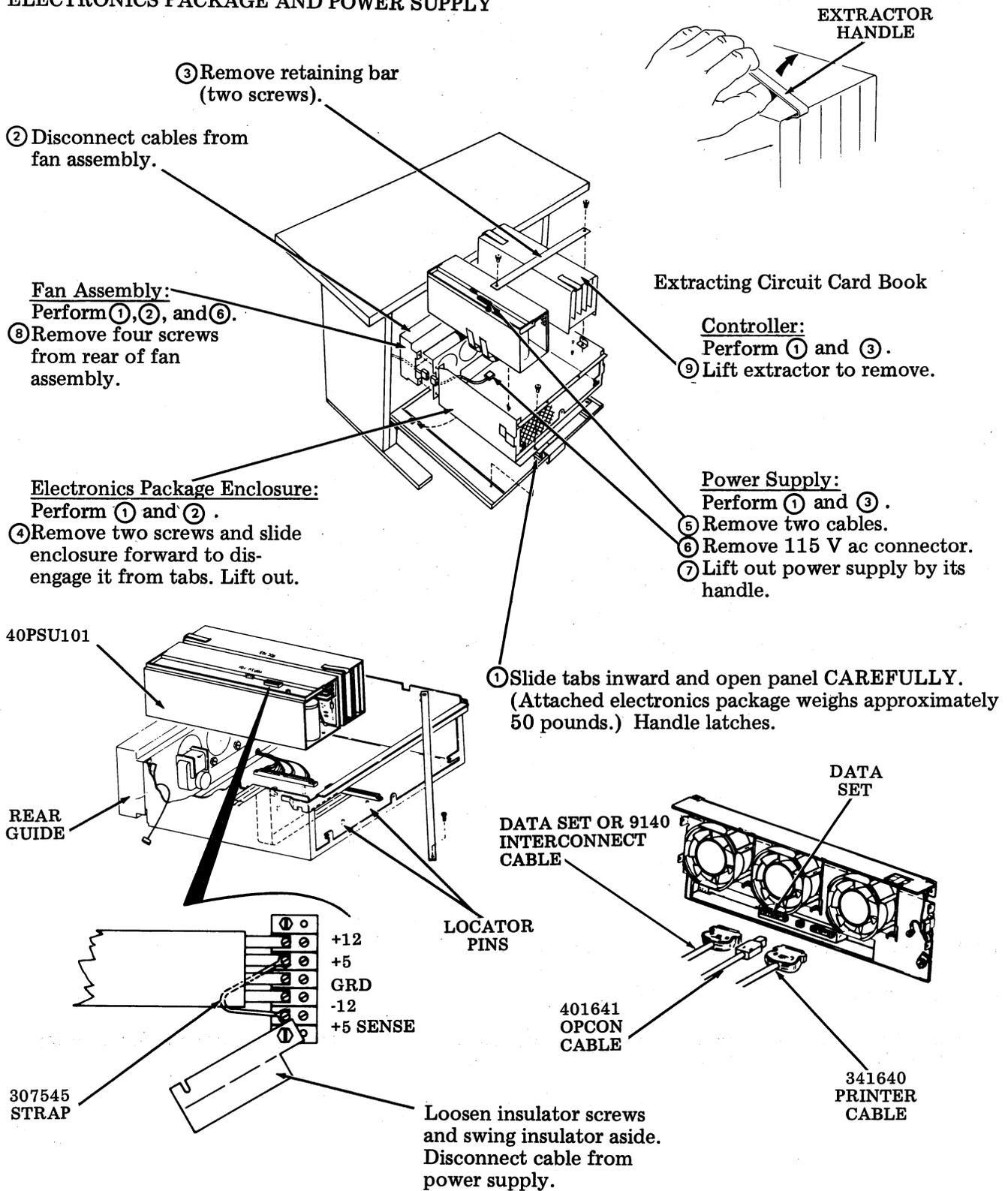④ Remove two screws and slide
enclosure forward to dis-
engage it from tabs. Lift out.

Power Supply:
Perform ① and ③.
⑤ Remove two cables.
⑥ Remove 115 V ac connector.
⑦ Lift out power supply by its
handle.

40PSU101

① Slide tabs inward and open panel CAREFULLY.
(Attached electronics package weighs approximately
50 pounds.) Handle latches.

DATA
SET

REAR
GUIDE

DATA SET OR 9140
INTERCONNECT
CABLE

LOCATOR
PINS

+12
+5
GRD
-12
+5 SENSE

401641
OPCON
CABLE

341640
PRINTER
CABLE

307545
STRAP

Loosen insulator screws
and swing insulator aside.
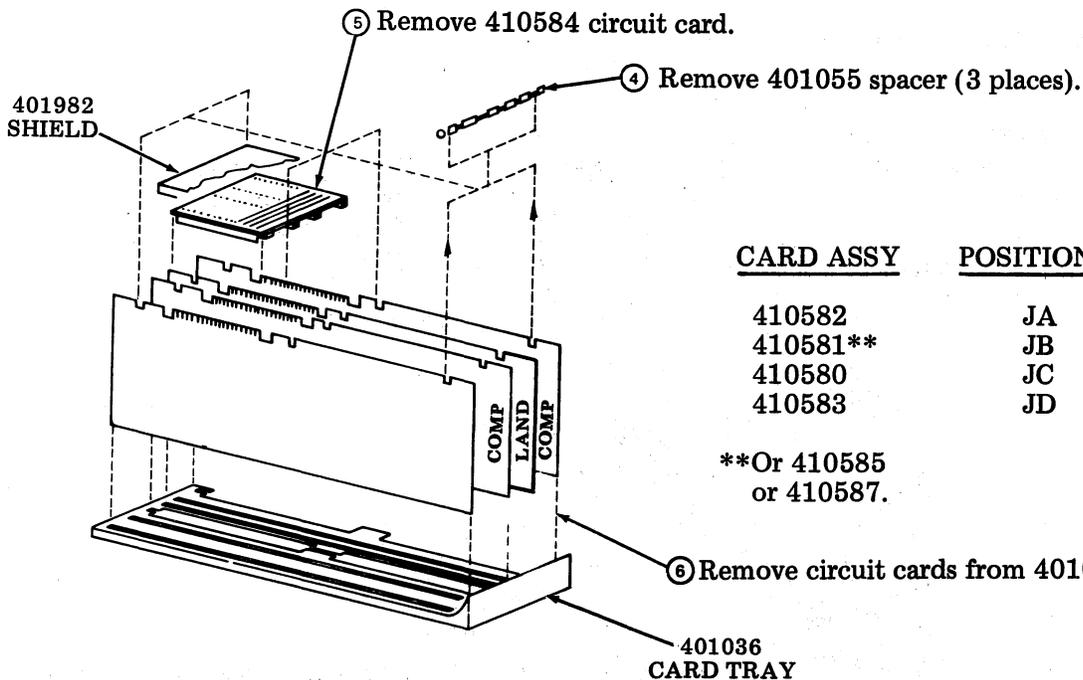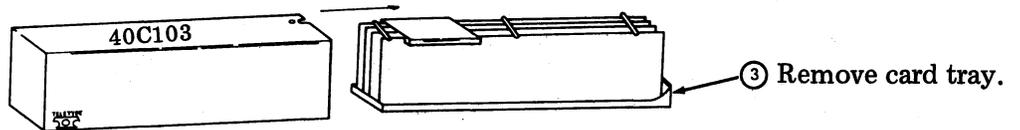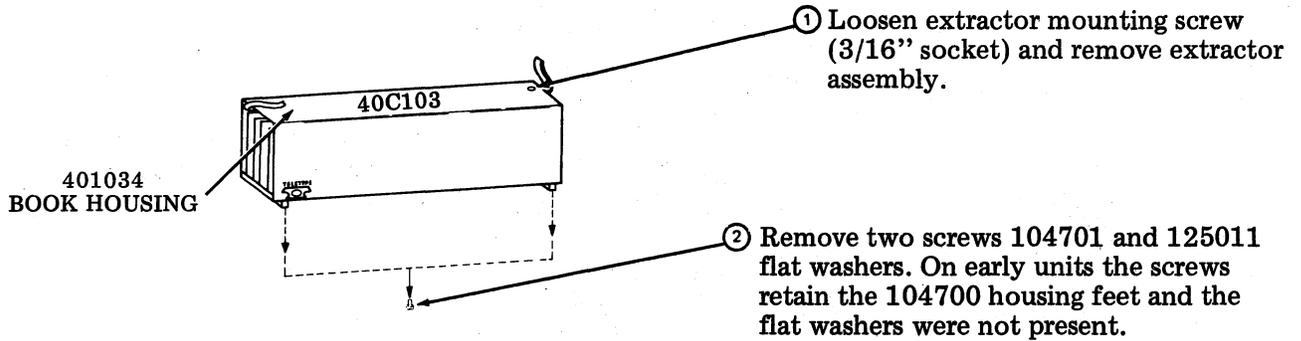Disconnect cable from
power supply.

*Note:* To reinstall power supply, seat it on the locating pins in the base of the enclosure. The cables are
routed over the handle.

## ROP CONTROLLER (40C103/AD OR 40C103/AE)

To disassemble the controller, refer to procedure shown. Circled numbers indicate order of disassembly.

① Loosen extractor mounting screw (3/16" socket) and remove extractor assembly.

40C103

401034
BOOK HOUSING

② Remove two screws 104701 and 125011 flat washers. On early units the screws retain the 104700 housing feet and the flat washers were not present.

40C103

③ Remove card tray.

⑤ Remove 410584 circuit card.

④ Remove 401055 spacer (3 places).

401982
SHIELD

| CARD ASSY | POSITION |
|-----------|----------|
| 410582 | JA |
| 410581** | JB |
| 410580 | JC |
| 410583 | JD |

**Or 410585
or 410587.

COMP  LAND  COMP

⑥ Remove circuit cards from 401036 card tray.

401036
CARD TRAY
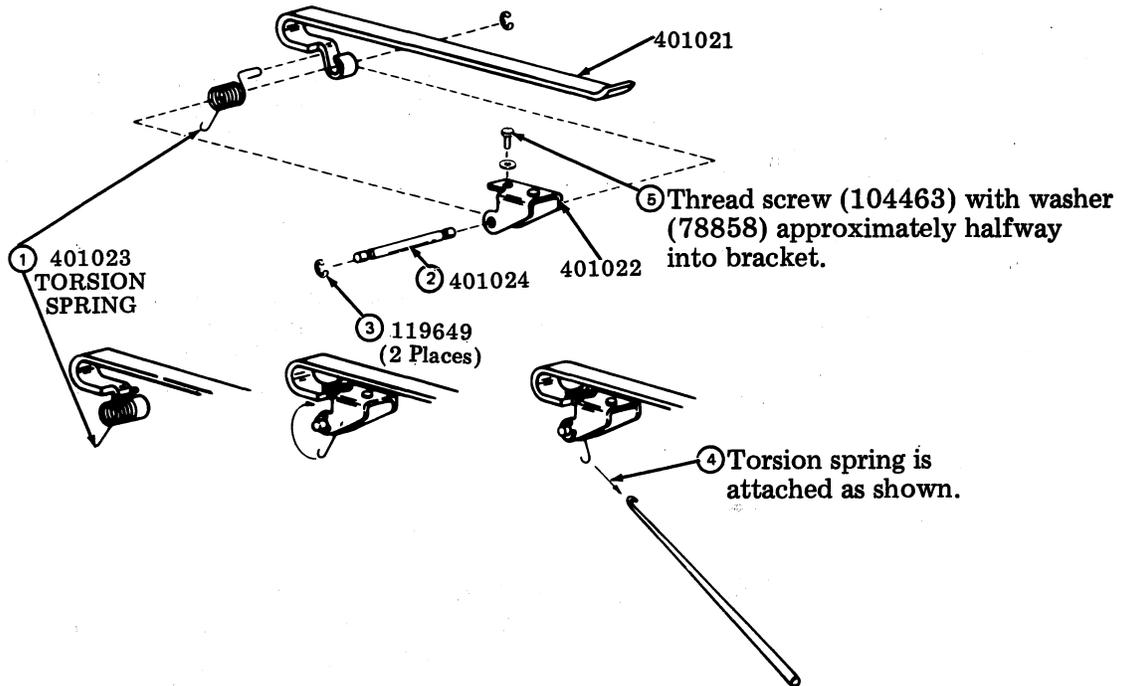
**410581 and 410585 are interchangeable and are used in 40C103/AD. 410587 used in 40C103/AE.

*Note:*    Issue 1 through 4A of 410580 are compatible only with Issue 1 of 410584.
Issue 5A and later of 410580 are compatible only with Issue 2A and later of 410584.
Issue 3A and later of 410587 are compatible only with Issue 3A and later of 410584.
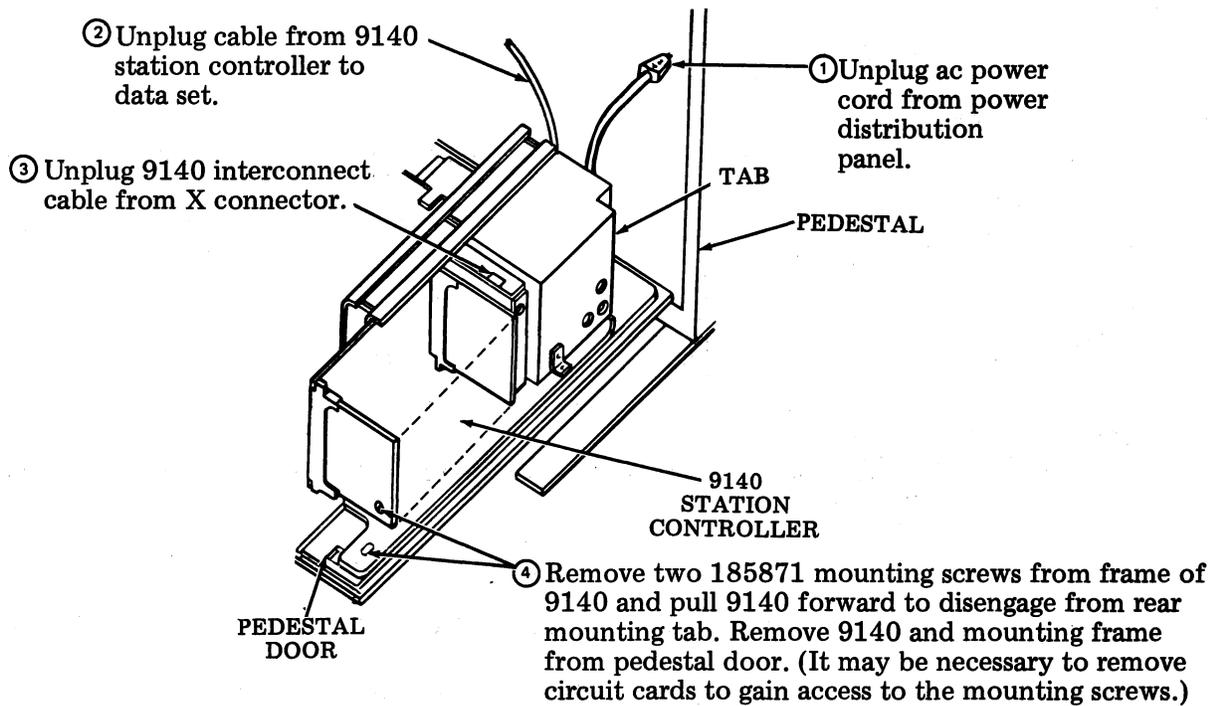
It is not intended that the extractor assembly be disassembled for access to the controller cards.



① 401023
TORSION
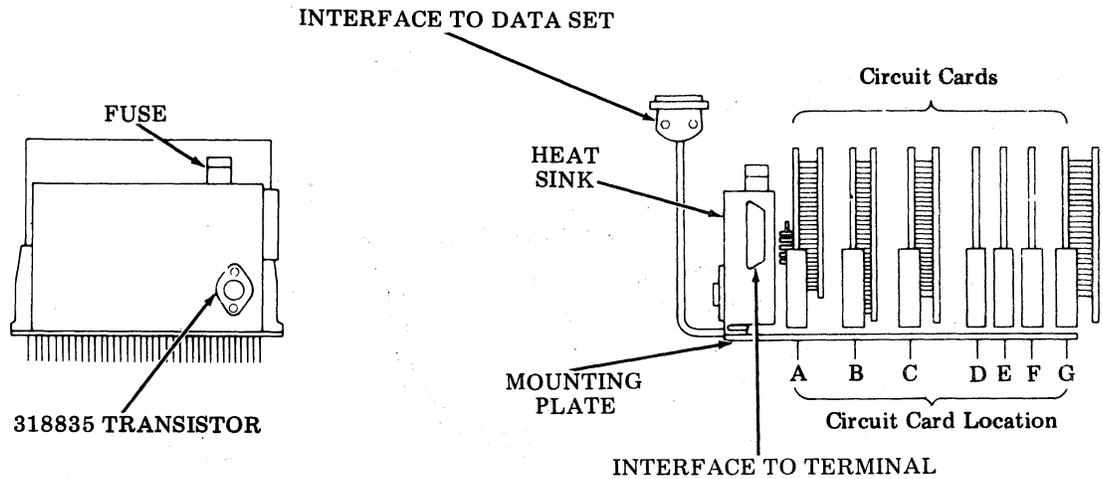SPRING

② 401024    401022

③ 119649
(2 Places)

④ Torsion spring is
attached as shown.

⑤ Thread screw (104463) with washer
(78858) approximately halfway
into bracket.

401021

## 4.   9140 STATION CONTROLLER

## ELECTRONICS PACKAGE AND MOUNTING FRAME



② Unplug cable from 9140
station controller to
data set.

③ Unplug 9140 interconnect
cable from X connector.

① Unplug ac power
cord from power
distribution
panel.

TAB

PEDESTAL

9140
STATION
CONTROLLER

PEDESTAL
DOOR

④ Remove two 185871 mounting screws from frame of
9140 and pull 9140 forward to disengage from rear
mounting tab. Remove 9140 and mounting frame
from pedestal door. (It may be necessary to remove
circuit cards to gain access to the mounting screws.)

CIRCUIT CARDS



| CIRCUIT CARDS | CIRCUIT CARD LOCATION | PART NO. | FUNCTION |
|---|---|---|---|
| A | A | 322010 | CDC Detector-Up to 1200 Baud |
| ‡‡A-1 <br> A2 | Mounted on Card A | 322409 <br> 322685 | Third CDC Detector <br> CDC Detector-1800 and 2400 Baud |
| A-3C <br> or <br> A-3E <br> or <br> §§A-3G | Mounted on Card A | 303805 <br><br> 303839 <br><br> 303864 | 1050 Baud Timer <br><br> 1200 Baud Timer <br><br> 2400 Baud Timer |
| B | B | 322011 | R/T Distributor |
| B-1 | Mounted on Card B | 322411 | Parity Error Detection |
| C2 | C | 322013 | REC Control Logic |
| C2-2 | Mounted on Card C2 | 322442 | A/B and Motor Control (Selected) |
| D1 | D | 322014 | Send/Receive Logic |
| E2 | E | 322451 | EIA Interface |
| F1 <br> or <br> F2 | F | 322017 <br><br> 322018 | Character Recognition <br><br> Character Recognition and Substitute Character |
| G3 | G | 322083 | Channel Control |
| ††MC641 | Mounted on Card G3 | 322641 | Alarm/Parity Error Response |
| R | Under Heat Sink | 303808 | Voltage Regulator |

††Part of 345625 alarm modification kit which is optional. The other parts of 345625 modification kit are the 345626 alarm assembly and mounting hardware.
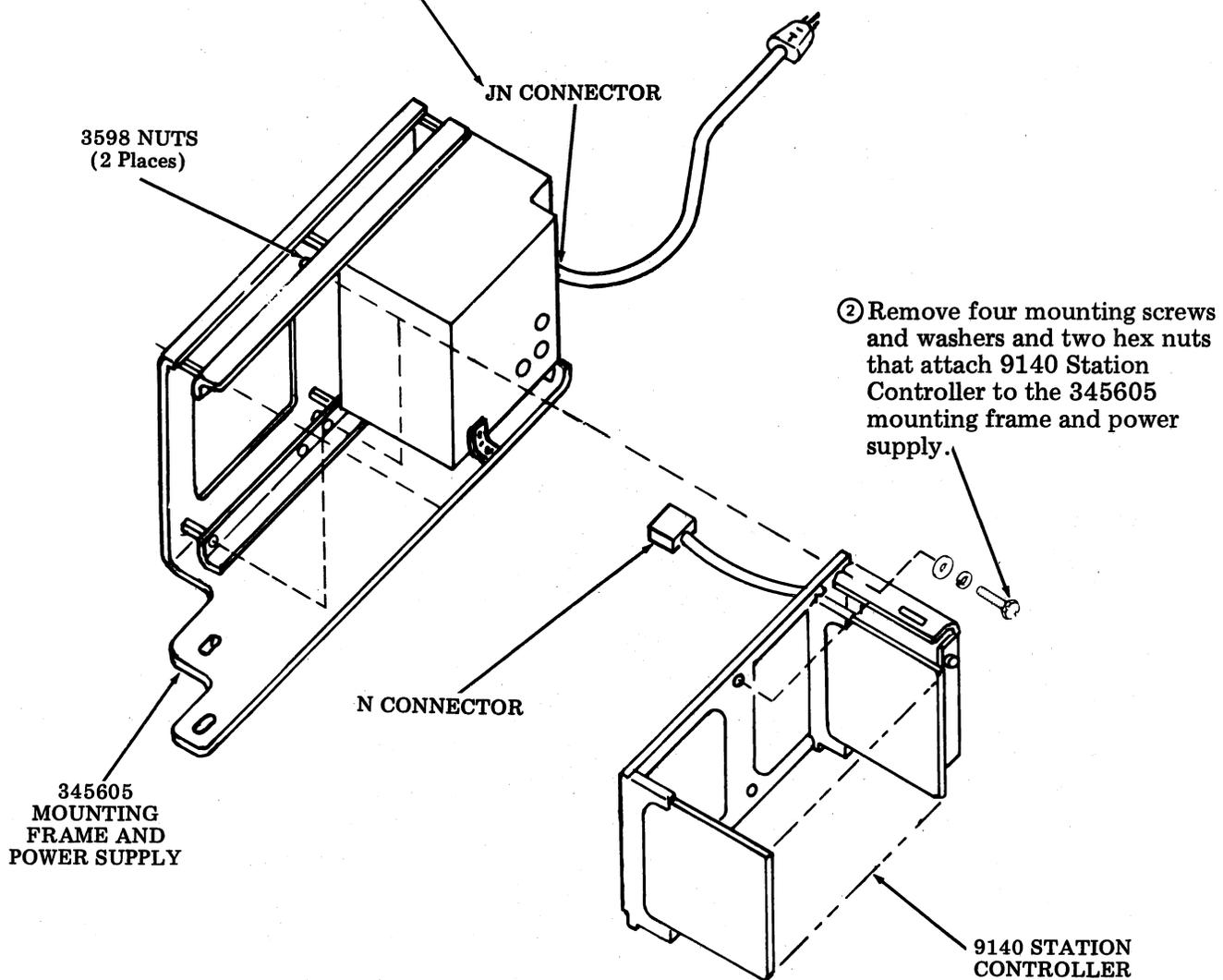
‡‡322409 third CDC circuit card assembly which is optional.

§§402326 modification kit updates a 9140 station controller to operate at 2400 baud isochronous operation with a parity detect and alarm feature.

## DISASSEMBLY INFORMATION

A.   9140 Station Controller

① Unplug N connector from
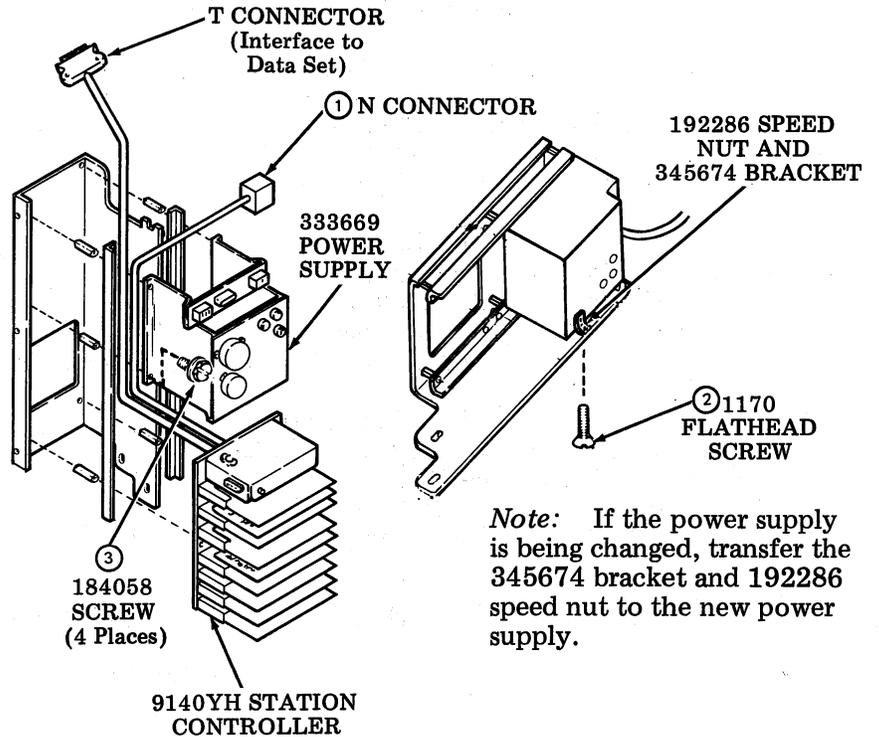    JN connector on power supply.

JN CONNECTOR

3598 NUTS
(2 Places)

② Remove four mounting screws
    and washers and two hex nuts
    that attach 9140 Station
    Controller to the 345605
    mounting frame and power
    supply.

N CONNECTOR

345605
MOUNTING
FRAME AND
POWER SUPPLY

9140 STATION
CONTROLLER

B.    Power Supply

① Unplug N connector and ac cord from power supply.

② Remove 1170 flathead screw from bottom of mounting frame.

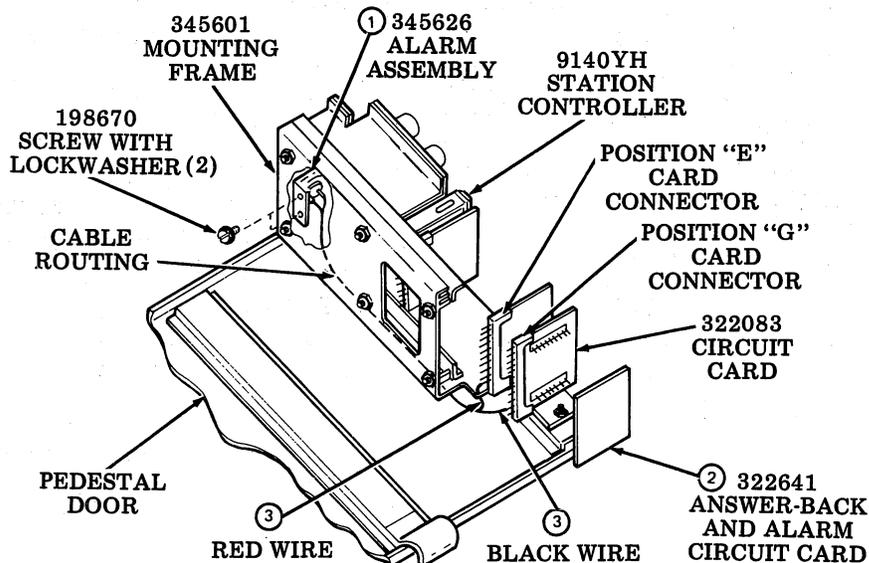③ Remove four 184058 screws that attach power supply to mounting frame.

Power Supply Fuses
1/2A — 117176
3/8A — 159269
2A    — 120166

T CONNECTOR
(Interface to Data Set)

① N CONNECTOR

192286 SPEED NUT AND 345674 BRACKET

333669 POWER SUPPLY

② 1170 FLATHEAD SCREW

*Note:*    If the power supply is being changed, transfer the 345674 bracket and 192286 speed nut to the new power supply.

③

184058 SCREW (4 Places)

9140YH STATION CONTROLLER

C.    345625 Alarm/Parity Response Modification Kit

① The 345626 alarm assembly is held to 345601 mounting frame with two 198670 screws with lockwashers.

② The 322641 answer-back and alarm circuit card is required on 322083 circuit card in position G.

③ Cable of 345626 alarm assembly is routed between mounting posts and 345601 mounting frame. Slip-on terminal of red wire on pin B35 of card connector in position E and terminal of black wire on pin B33 of card connector in position G must be seated firmly.

345601 MOUNTING FRAME

① 345626 ALARM ASSEMBLY

9140YH STATION CONTROLLER

198670 SCREW WITH LOCKWASHER (2)

POSITION "E" CARD CONNECTOR

POSITION "G" CARD CONNECTOR

CABLE ROUTING

322083 CIRCUIT CARD

PEDESTAL DOOR

③ RED WIRE

③ BLACK WIRE

② 322641 ANSWER-BACK AND ALARM CIRCUIT CARD

D.   344555 Individual Receiver Selection Modification Kit — IRS

① Turn pedestal and cabinet power OFF for the
KD (or KDP) and ROP. Unplug ac power cord
from power distribution panel for the 9140
Station Controller (in the KD or KDP pedestal)
and the IRS Controller (in the ROP pedestal).

② KD or KDP:   Disconnect the "X 9140"
connector of the 344545 cable from the
"X" connector of the 9140 and "X TERM"
connector of the 344545 cable from the
345603 data set cable of the KD (or KDP).

ROP:   Disconnect the "X TERM" connector
of the 344545 cable from the data set connector
of the ROP controller and the "X IND. REC."
connector of the 344545 cable from the "X"
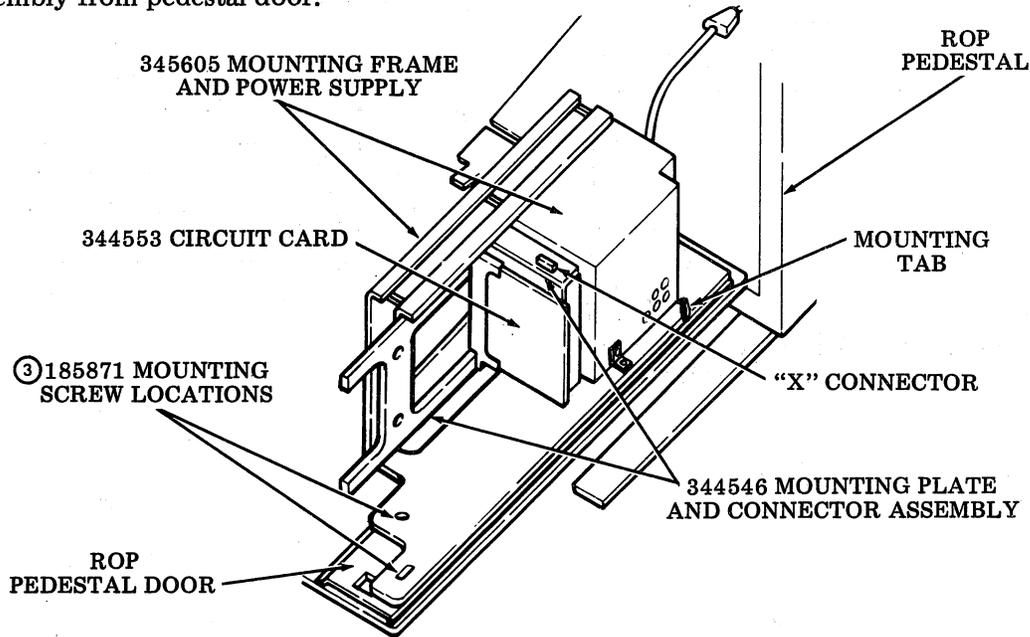connector of the IRS modification kit.



OFF
(2 PEDESTALS)
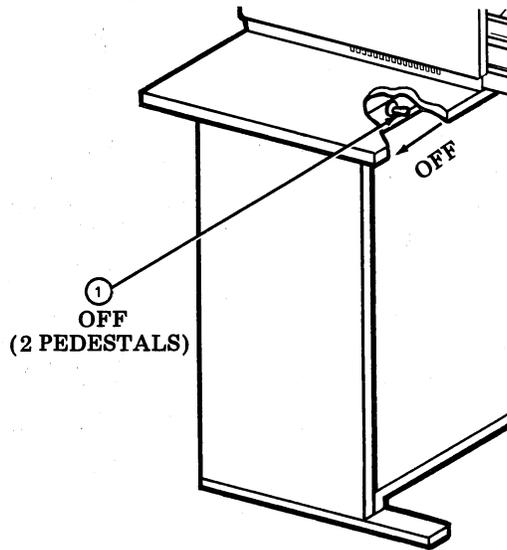
**KD-ROP STATION EQUIPPED WITH INDIVIDUAL RECEIVER SELECTION MODIFICATION KIT**

(Rear View)
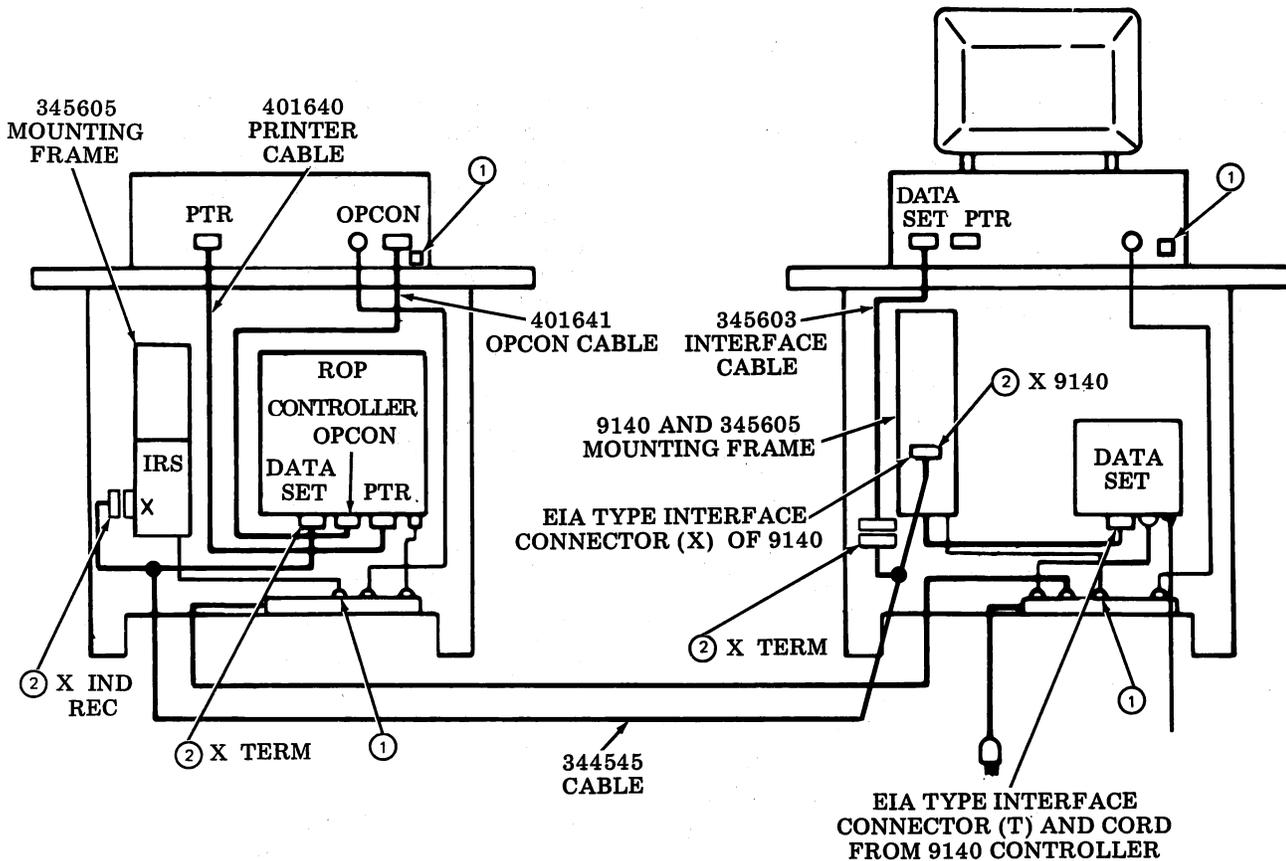
③ Remove two 185871 mounting screws from 345605 mounting frame and power supply and pull IRS controller assembly forward to disengage rear mounting tab. Remove assembly from pedestal door.
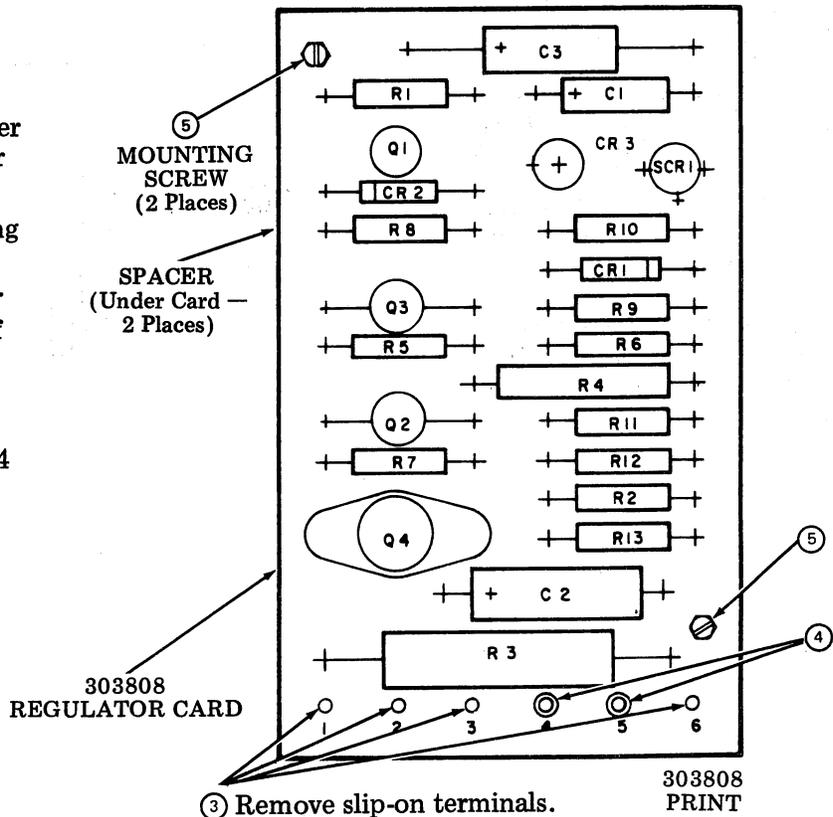
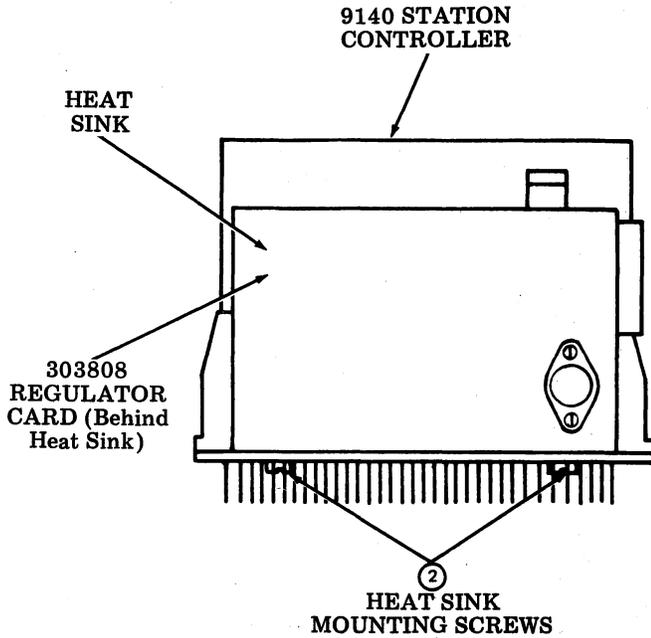④ For further disassembly/reassembly refer to Specification 50,800S.

345605 MOUNTING FRAME AND POWER SUPPLY

ROP PEDESTAL

344553 CIRCUIT CARD

MOUNTING TAB

③ 185871 MOUNTING SCREW LOCATIONS

"X" CONNECTOR

344546 MOUNTING PLATE AND CONNECTOR ASSEMBLY

ROP PEDESTAL DOOR

## COMPONENT REMOVAL

A. 303808 Regulator Card

① Remove 9140 Station Controller from its mounting frame. Refer to Page 20.

② Remove two heat sink mounting screws from bottom of 9140 Station Controller wired frame.

③ Pull the slip-on terminals off of posts 1, 2, 3, and 6 on the bottom of the 303808 regulator card.

④ Unsolder the wires from posts 4 and 5 on the bottom of the regulator card.

⑤ Remove the two mounting screws that attach the 303808 regulator card to the heat sink.

⑤ MOUNTING SCREW (2 Places)

SPACER (Under Card — 2 Places)

C3
R1    +C1
Q1    CR 3
CR2   SCR1
R8    R10
CR1
Q3    R9
R5    R6
R4
Q2    R11
R7    R12
R2
Q4    R13
C2
R3
1  2  3  4  5  6

303808 REGULATOR CARD

③ Remove slip-on terminals.

303808 PRINT

HEAT SINK

9140 STATION CONTROLLER

303808 REGULATOR CARD (Behind Heat Sink)

HEAT SINK MOUNTING SCREWS

Wire Location

| Post No. | Wire Color |
|----------|------------|
| 1 | Red |
| 2 | Slate |
| 3 | White |
| 4 | Blue and Yellow (2 wires) |
| 5 | Black |
| 6 | Purple |

B. 318835 Power Transistor

①Remove 9140 Station Controller from its mounting frame. Refer to Page 20.

②Remove two heat sink mounting screws from bottom of 9140 Station Controller wired frame.

③Unsolder slate wire from transistor base lead and blue wire from emitter lead.

④Remove two mounting screws, washers, red collector wire, mica insulator, and transistor from heat sink.



9140 STATION CONTROLLER

POWER TRANSISTOR

HEAT SINK

HEAT SINK MOUNTING SCREWS
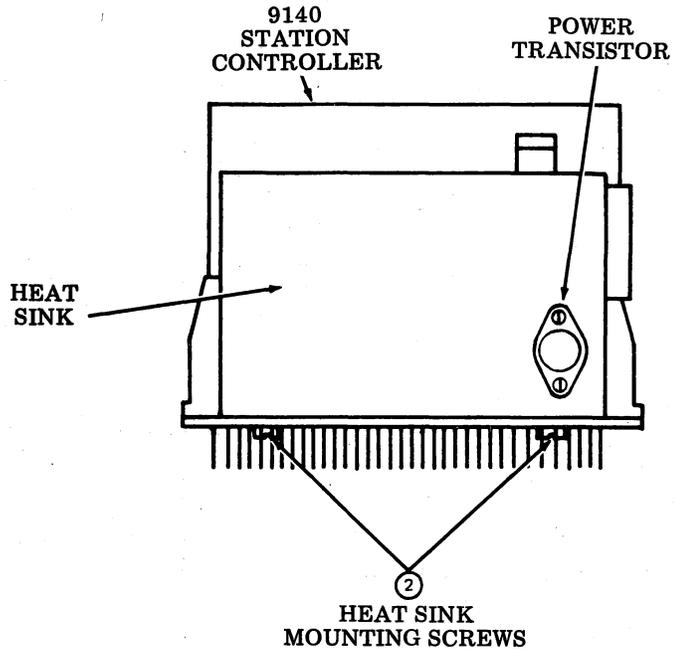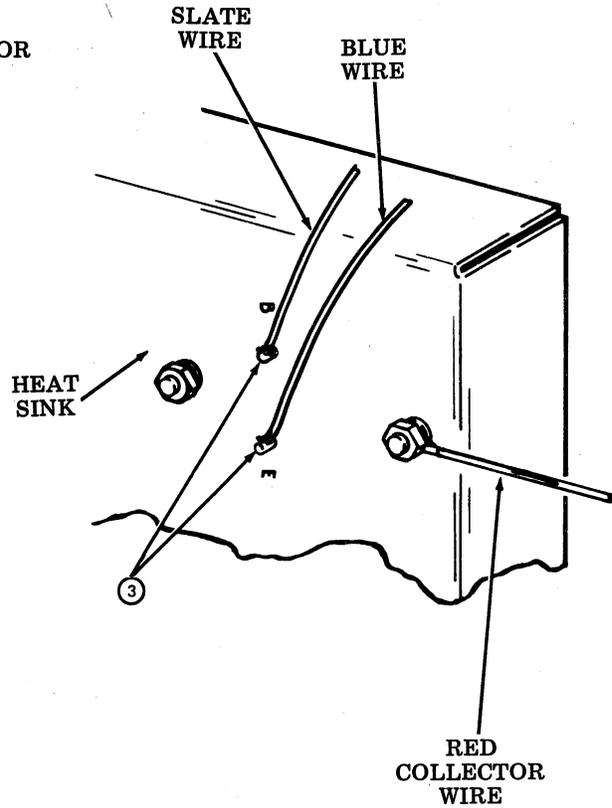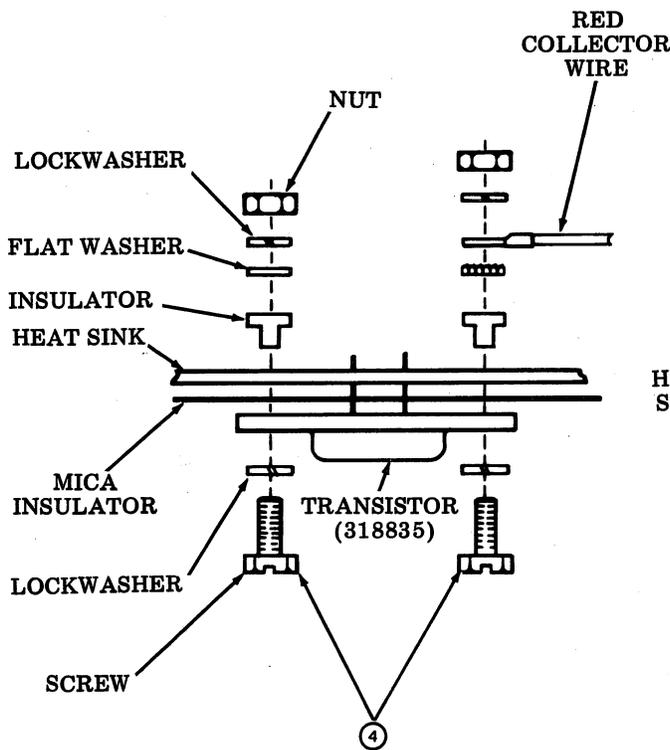
## 5. PARTS

5.01    For parts information on interconnect cables of the 40/3 type Station, refer to Section 582-200-403.

5.02    Parts information for individual components (printer, monitor, etc) are not illustrated in this section. Refer to the appropriate BSP section in Service Manual 325-057.