

Section 1: Adjustments and Replacements

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Special Tools Required



Important

Use qualified personnel to service the SORTER.

TL-1387	ROLL PIN PUNCH
TL-1926	MAGNETIC POWER WARNING SIGN
TL-3346	GROUNDING KIT
TL-4430	PROM EXTRACTION TOOL
TL-4598	PIN EXTRACTION TOOL
TL-4740	INTERLOCK KEY



Warning

Dangerous Voltage. Before you replace electrical components, move the main wall CIRCUIT BREAKER to “OFF”. Lock the wall CIRCUIT BREAKER and attach a MAGNETIC POWER WARNING SIGN TL-1926 to warn others not to energize the PROCESSOR while you are performing service on the SORTER.

Electrostatic Discharge

Overview

ESD — electrostatic discharge — is a primary source of:

- product downtime
- lost productivity
- costly repairs

While one cannot feel a static charge of less than 3,500 volts, as few as 30 volts can damage or destroy essential components in electronic equipment.

Preventive Measures

- Always look for an ESD warning label before doing any procedure involving static-sensitive components such as CIRCUIT BOARDS. All static-sensitive components are marked with bright graphic labels, which frequently include instructions. Follow all label instructions.
- Wear a grounding strap when handling static-sensitive components. Always make certain that the clip remains attached to a properly grounded, unpainted, clean surface.
- Repair static-sensitive components at an ESD-protected work station or use a portable grounding mat. For help in setting up an ESD-protected work station, contact your Kodak representative.
- When moving static-sensitive components from one area to another, insert and transport the components in ESD-protective packaging. Transparent antistatic bags are available from a variety of manufacturers and will help shield components from ESD damage.

Service Overview

Position and Identification of Subassemblies

Figure 1-1 Identifying the Sides of the SORTER

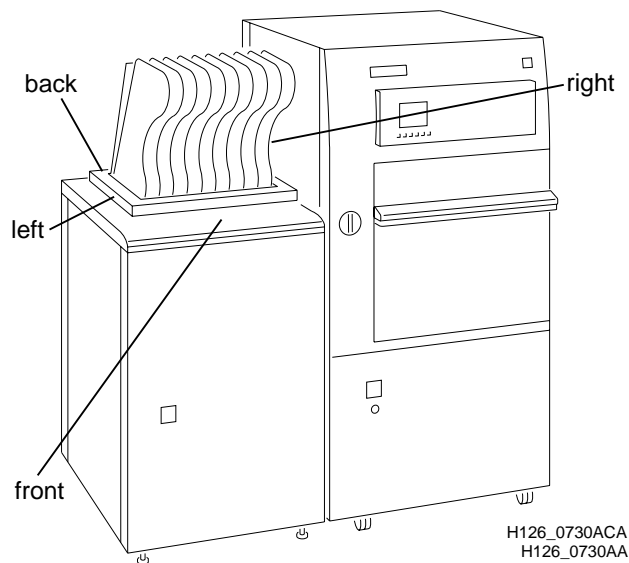


Figure 1-2
Identifying the MODULES

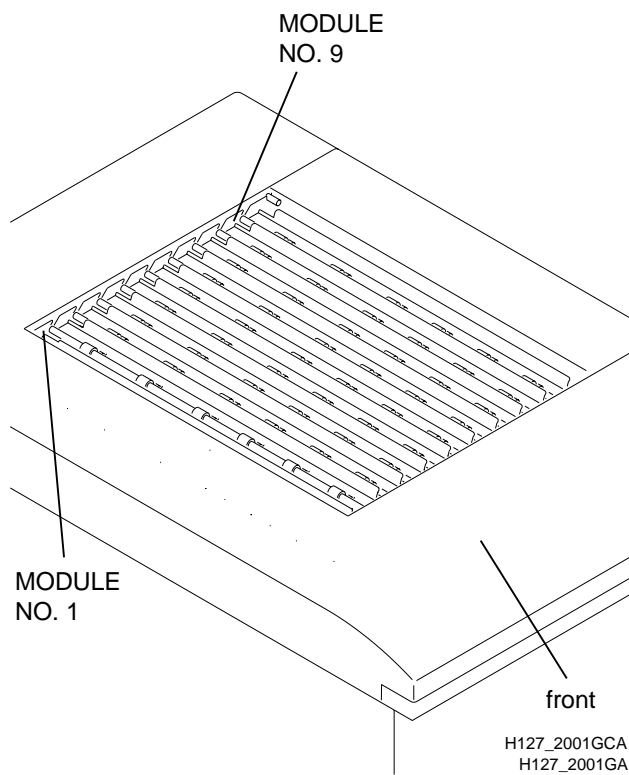
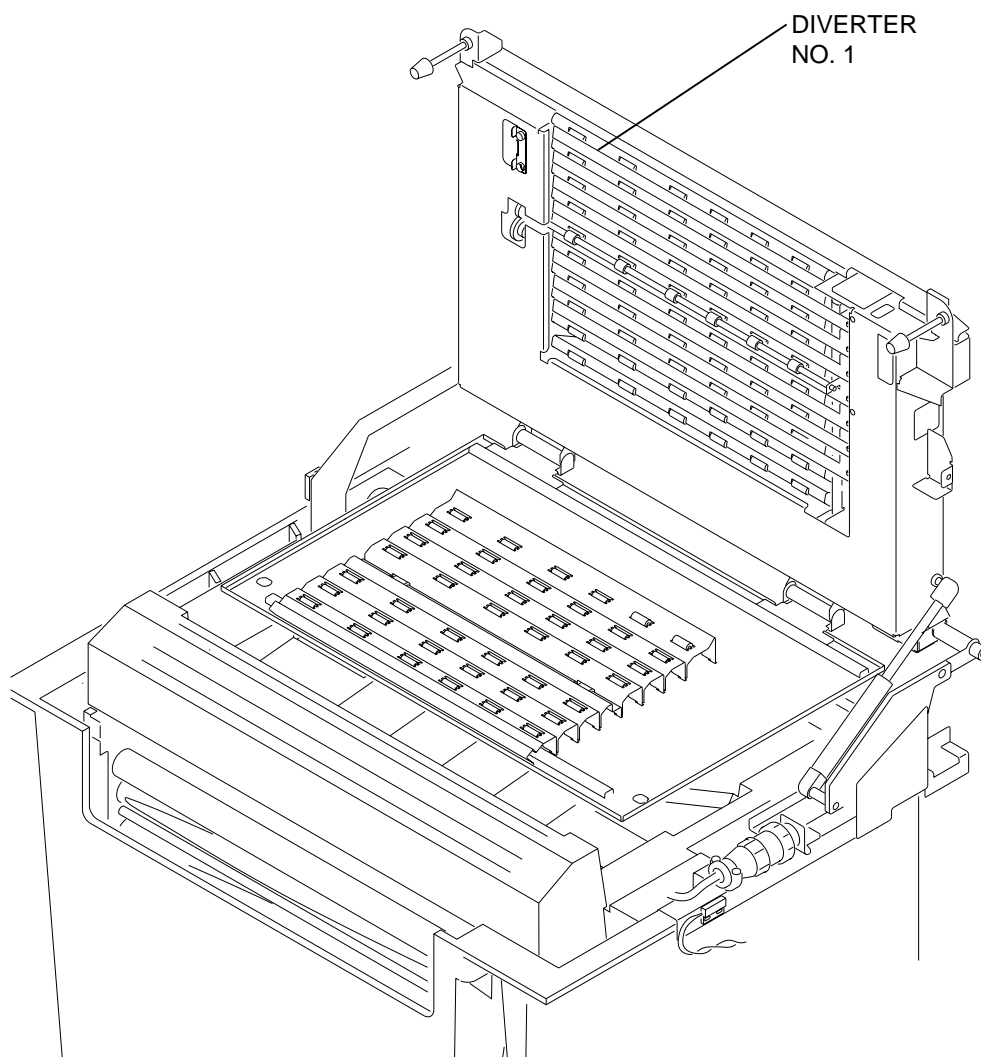
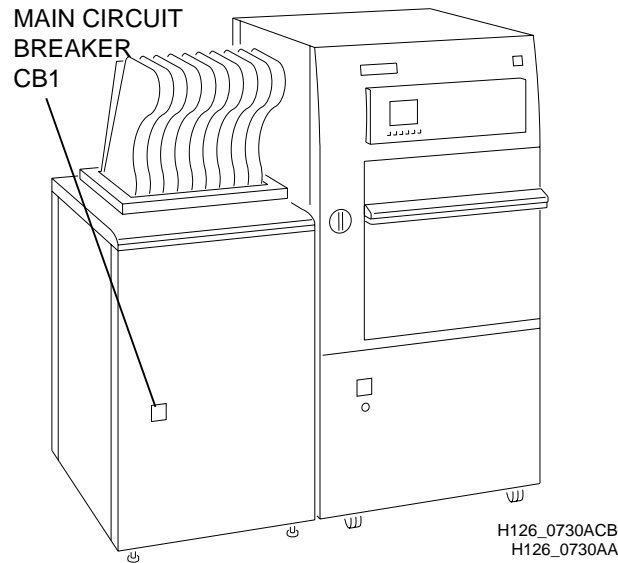


Figure 1-3 Identifying the DIVERTERS



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De-energizing and Energizing the PROCESSOR

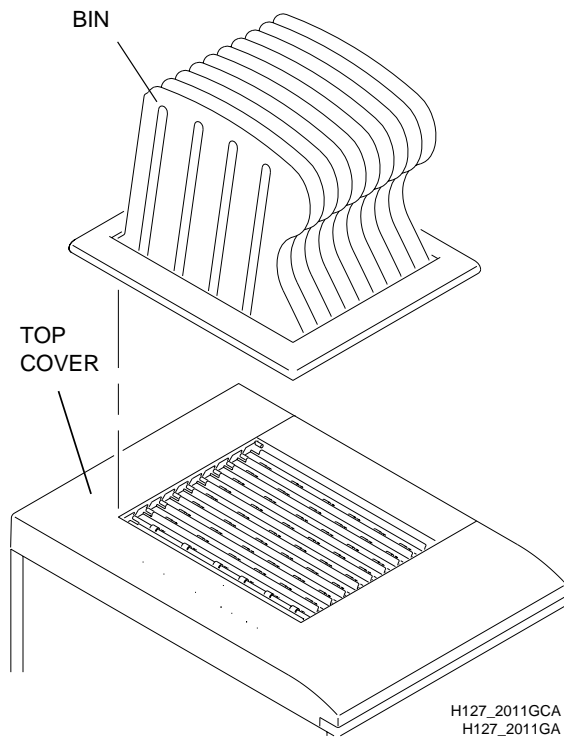


For most of the service procedures on the SORTER, the PROCESSOR must be de-energized. To **de-energize** the PROCESSOR, move the MAIN CIRCUIT BREAKER CB1 on the front of the PROCESSOR to the "O" position and the main wall CIRCUIT BREAKER to "OFF".

To **energize** the PROCESSOR, move the main wall CIRCUIT BREAKER to "ON" and the MAIN CIRCUIT BREAKER CB1 on the PROCESSOR to the "I" position.

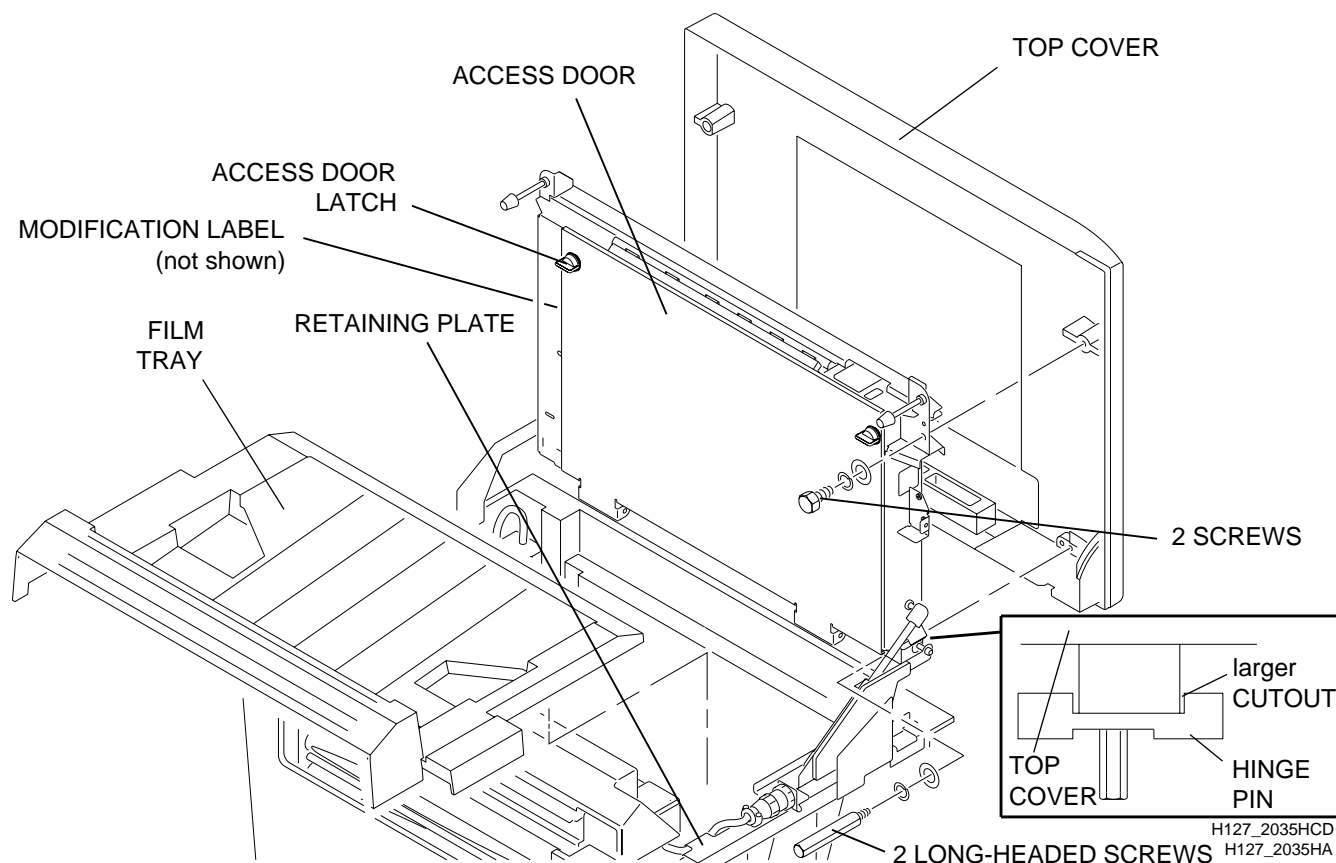
General Access to the SORTER or to the PROCESSOR

Figure 1-4 Removal of the BIN



- [1] De-energize the PROCESSOR. See above procedure.
- [2] Remove any films from the BIN.
- [3] Lift and remove the BIN.
- [4] Lift the TOP COVER.
- [5] For access to the PROCESSOR, remove the FILM TRAY.
- [6] To release the ACCESS DOOR, rotate each ACCESS DOOR LATCH counterclockwise. See Figure [1-5](#) on Page [1-7](#).
- [7] Remove:
 - 4 SCREWS
 - TOP COVER from the SORTER

Figure 1-5 Access to the SORTER or to the PROCESSOR

**Caution**

The SORTER has many small parts, that can fall into the processing section, RACKS, and TANKS of the PROCESSOR. During service, you may want to place a cloth over the processing section to catch falling parts.

Installing the TOP COVER

- [1] Install the FILM TRAY.
- [2] Rotate the 2 HINGE PINS until the larger CUTOUT is up, toward the TOP COVER. See Figure 1-5.
- [3] With the SORTER in the down position, place the TOP COVER of the SORTER in position.
- [4] Lift the SORTER and TOP COVER.
- [5] Install the 2 SCREWS and the 2 LONG-HEADED SCREWS.

* **Adjusting the ACCESS DOOR LATCHES** — See the Processor Installation section

* **Leveling the PROCESSOR** — See the Processor Installation section

* **Measuring and Adjusting the Height of the SORTER** — See the Processor Installation section

Replacement of the DIVERTERS or the BEARINGS

Note

For replacement of the SOLENOIDS, see Page [1-9](#).

[1] De-energize the PROCESSOR. See Page [1-5](#).

[2] Do the General Access procedure on Page [1-6](#) as required.



ESD

Possible damage from electrostatic discharge.

[3] Disconnect the CONNECTOR for the SOLENOID from the 100 BOARD.



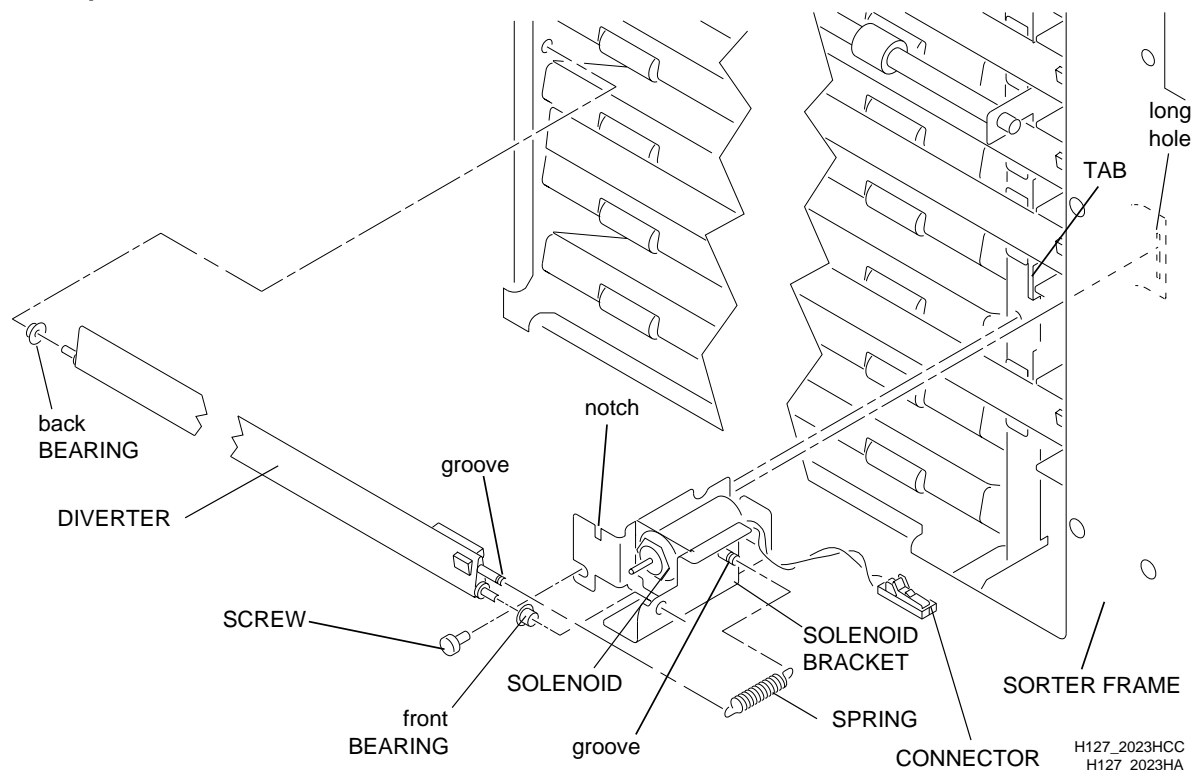
Caution

Do not allow the SCREW or the SPRING to fall. You may want to place a cloth over the processing section to catch falling parts.

[4] Remove:

- (a) SPRING and SCREW
- (b) SOLENOID with the SOLENOID BRACKET and the DIVERTER
- (c) DIVERTER from the SOLENOID BRACKET
- (d) front BEARING from the SOLENOID BRACKET
- (e) back BEARING from the SORTER FRAME

Figure 1-6 Replacement of a DIVERTER

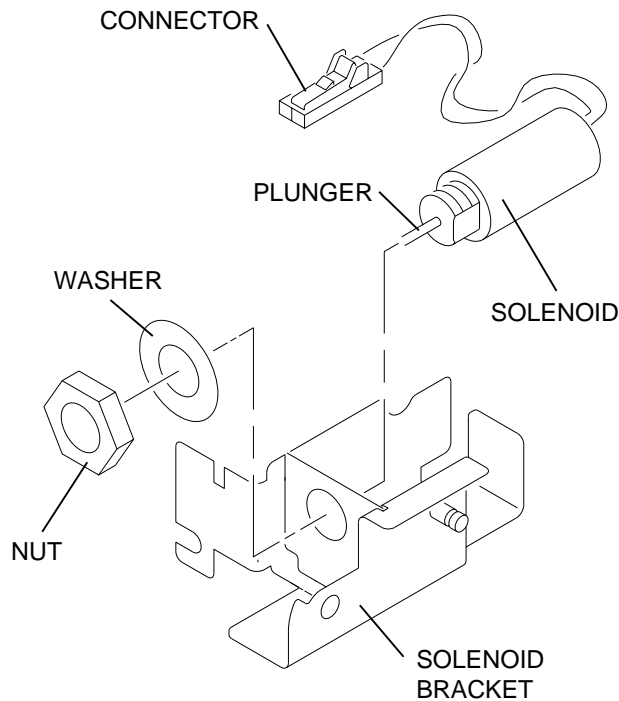


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[5] Reverse the above steps to install a new DIVERTER and BEARINGS. While installing, do the following:

- (a) Check that the SOLENOID BRACKET is inserted in the long hole in the SORTER FRAME.
- (b) Check that both ends of the SPRING are in the grooves.
- (c) When tightening the SCREW, hold the SOLENOID BRACKET so that the notch is fully seated around the locating TAB. See Figure [1-6](#).

Replacement of a SOLENOID



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- [1] Do Steps [1](#) - [4\(b\)](#) on Page [1-8](#) to remove the DIVERTER.

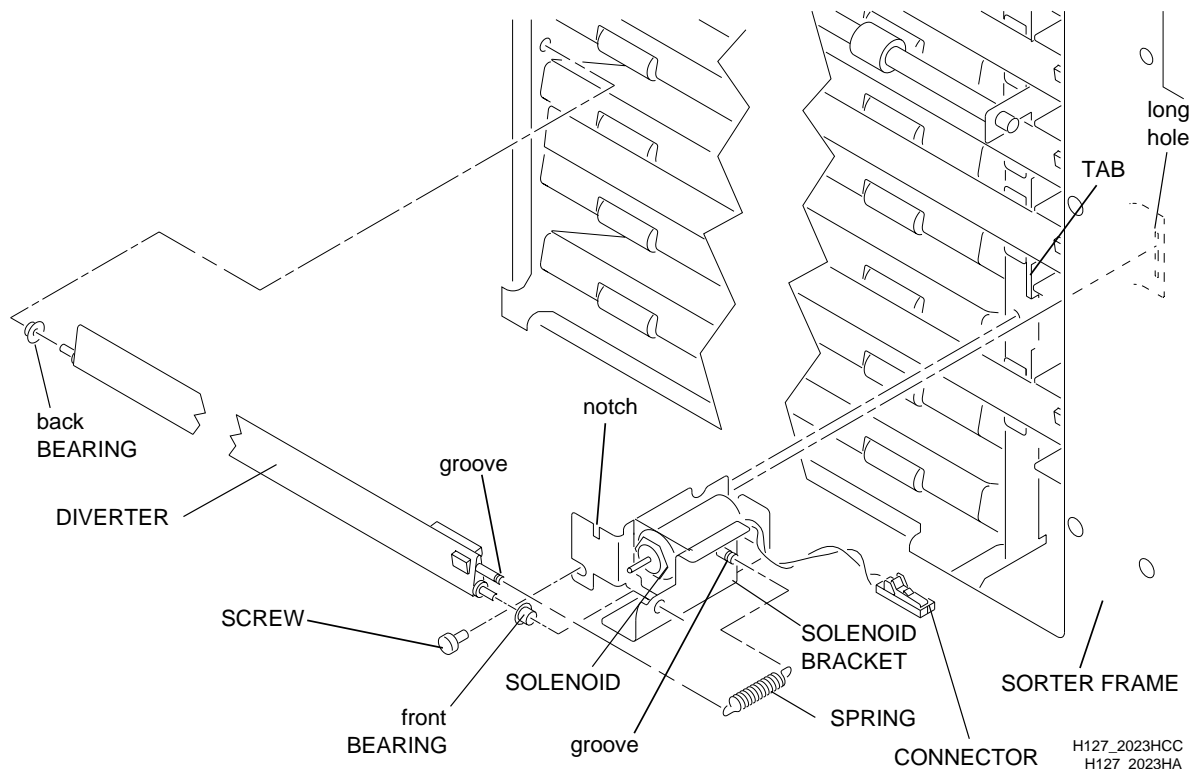


Important

The PLUNGER can fall out of the SOLENOID when you remove the SOLENOID from the BRACKET.

- [2] Remove the NUT, WASHER, and SOLENOID.
- [3] Reverse the above steps to install the new SOLENOID in the SOLENOID BRACKET. When installing the SOLENOID BRACKET, do the following:
- (a) Check that the SOLENOID BRACKET is in the long hole in the SORTER FRAME.
 - (b) Check that both ends of the SPRING are in the grooves.
 - (c) When tightening the SCREW, hold the SOLENOID BRACKET so that the notch is fully seated around the locating TAB.
 - (d) For minimum electromechanical interference, twist the wires by rotating the CONNECTOR for the SOLENOID 5 360° rotations before connecting the SOLENOID to the 100 BOARD.
 - (e) Check that the wires of the SOLENOID are in a position that will allow the SOLENOID to operate correctly.

Figure 1-7 Replacement of the SOLENOID

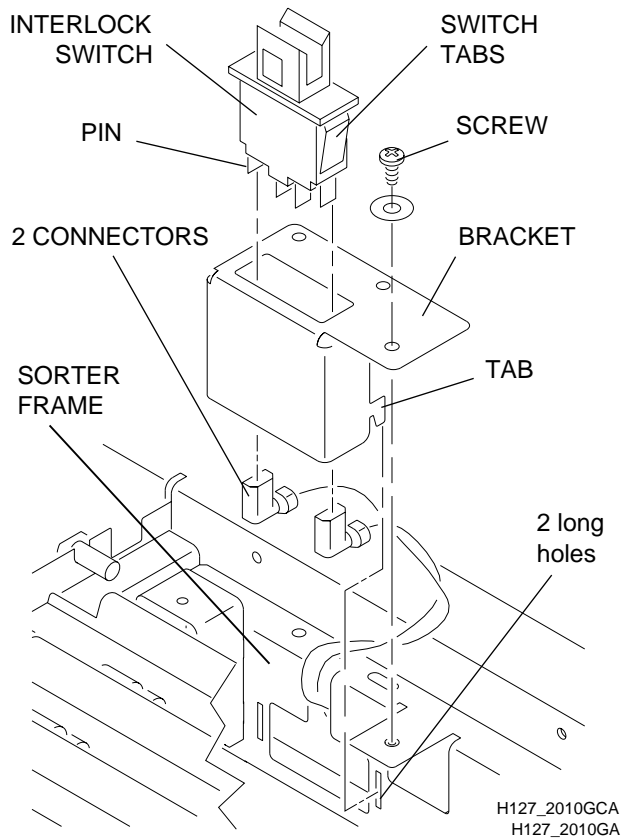


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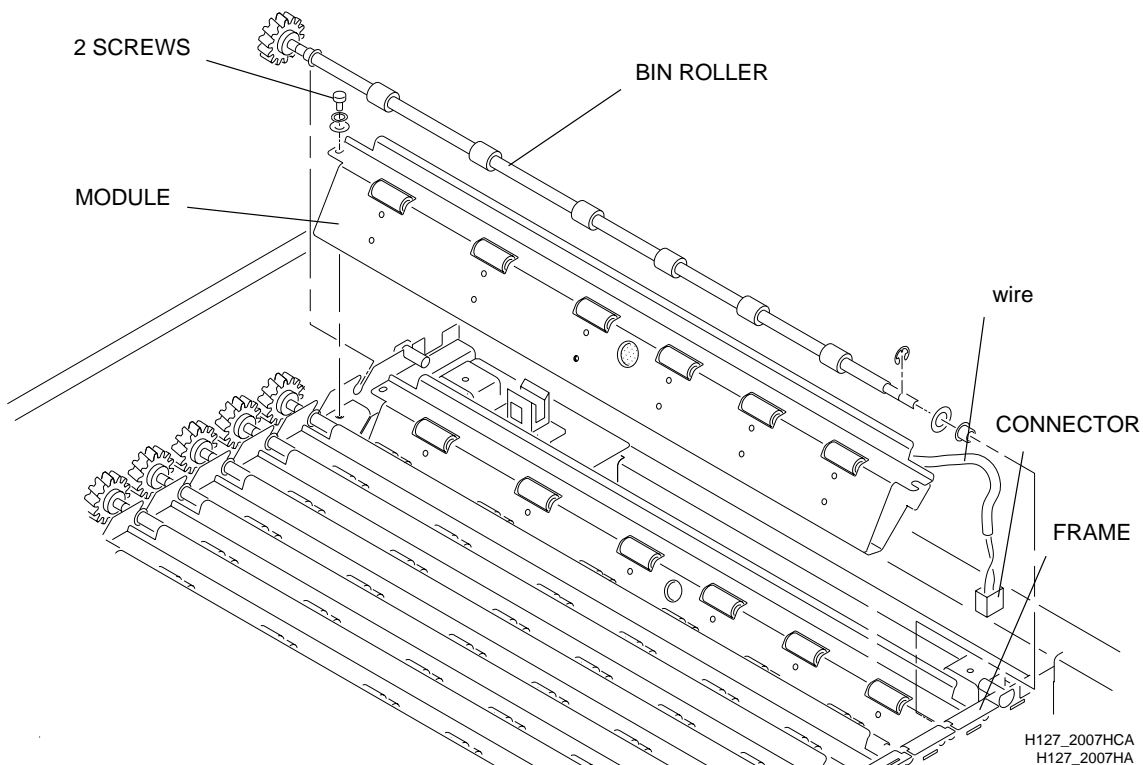
Replacement of the INTERLOCK SWITCH

Figure 1-8

Replacement of the INTERLOCK SWITCH



- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.
- [3] Remove the SCREW.
- [4] Remove the BRACKET from the SORTER.
- [5] Disconnect the 2 CONNECTORS.
- [6] Using a SCREWDRIVER, press on the SWITCH TABS to release the INTERLOCK SWITCH from the BRACKET.
- [7] Install the new INTERLOCK SWITCH in the BRACKET.
- [8] Connect the 2 CONNECTORS to the **2 PINS on the edges of** the new INTERLOCK SWITCH. See Figure [1-8](#).
- [9] Install the BRACKET.
- [10] Check that the TABS on the BRACKET are inserted in the 2 long holes in the SORTER FRAME.
- [11] Install the SCREW.

Figure 1-9 Replacement of a MODULE — See Page [1-11](#)

Replacement of a MODULE

Note

See Figure [1-9](#) on Page [1-10](#) for this procedure.



Caution

- Do not allow the SCREWS or WASHERS to fall. You may want to place a cloth over the processing section to catch falling parts
- This procedure is for removing and installing any MODULE: the TRANSPORT MODULE, the LEAD MODULE, or the MAIN MODULES.

- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.
- [3] Remove the BIN ROLLER that is **to the right** of the MODULE to be removed. See Page [1-17](#).

Note

If removing the MODULE No. 10, remove the INTERLOCK SWITCH instead of a BIN ROLLER. See Page [1-10](#).

- [4] Remove the 2 SCREWS.



ESD

Possible damage from electrostatic discharge.

- [5] Disconnect the CONNECTOR from the 100 BOARD. See Page [1-24](#).
- [6] Lift the MODULE and move it to the right to remove it from the SORTER.
- [7] Pull the wire toward the back until you can remove the wire from the FRAME.

Note

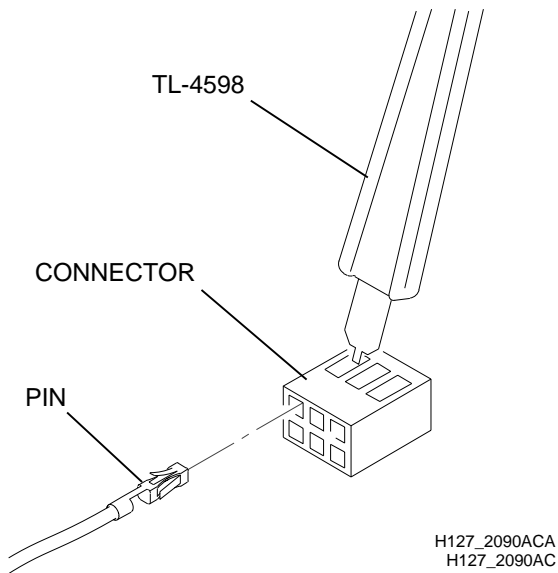
For easier removal from the FRAME, rotate the wire.

- [8] If necessary, remove other components on the MODULE and install new components. See Pages [1-12](#) through [1-16](#).
- [9] Reverse the procedure to install a new MODULE.
- [10] For minimum electromechanical interference, twist the wires by rotating the CONNECTOR for the MODULE 15 360° rotations before connecting the MODULE to the 100 BOARD.

Replacement of the SENSOR on a MODULE

Figure 1-10

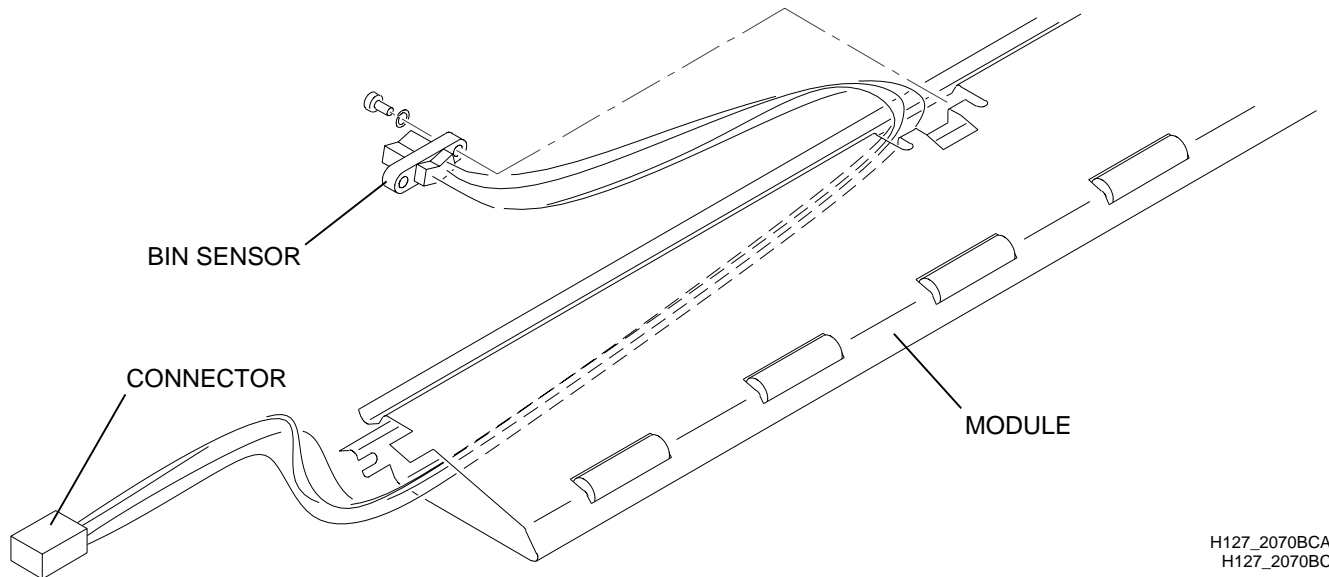
Removing the PINS from the CONNECTOR

**ESD**

Possible damage from electrostatic discharge.

- [1] Remove the MODULE. See Page [1-11](#).
- [2] Remove the 2 SCREWS.
- [3] Remove the CONNECTOR from the wires on the SENSOR:
 - (a) If the SENSOR will not be used again, cut the wires to remove the CONNECTOR.
 - (b) If the SENSOR will be used again, use a PIN EXTRACTION TOOL TL-4598 to remove the PINS from the CONNECTOR. See Figure [1-10](#).
- [4] Pull the wires through the MODULE.

Figure 1-11 Replacement of a SENSOR on a MODULE



[5] To install a new SENSOR:

- (a) Feed the wires of the new SENSOR through the MODULE.
- (b) Connect the PINS from the new SENSOR to the new CONNECTOR. See Figure 1-12.
- (c) Check that the positions of the wires are correct. See Figure 1-13.

Note

For easier routing of the CONNECTOR through the MODULE, use tape to fasten a piece of stiff wire to the wire connected to the SENSOR

Figure 1-12
Installing the PINS in the New CONNECTOR

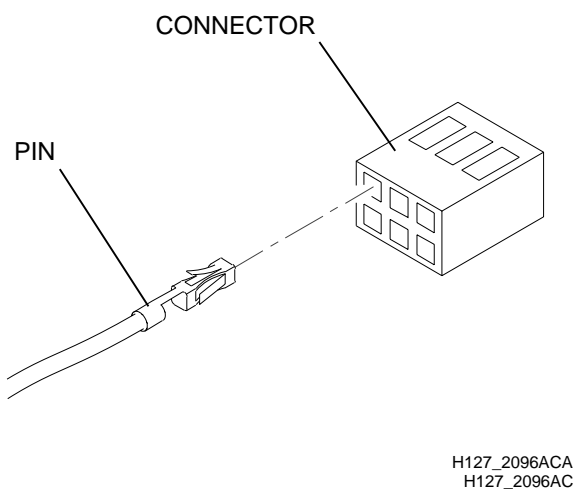
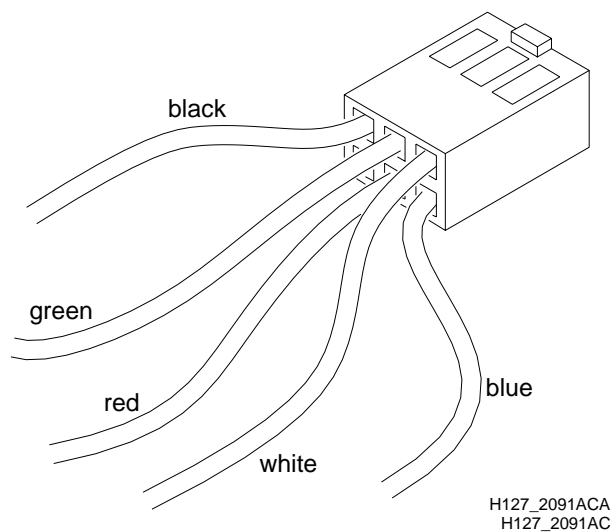


Figure 1-13 Positions of the PINS and Wires in the New CONNECTOR



Replacement of the ROLLERS on a LEAD or MAIN MODULE or on the ACCESS DOOR



Important

- Because you can easily cause damage to the O-RINGS, order new O-RINGS for this procedure.
- This procedure does not apply to the TRANSPORT MODULE.
- For ROLLERS on a LEAD or MAIN MODULE, see Figure 1-16 on Page 1-15. For ROLLERS on the ACCESS DOOR, see Figure 1-14.

[1] Open the ACCESS DOOR, or remove the MODULE. See Page 1-11 for the procedure to remove a MODULE.

[2] For access to the O-RING, move the SHAFT fully to one end.

[3] Remove the O-RING.

[4] To remove the SHAFT from the MODULE, move the SHAFT toward the other end.

[5] Discard the ROLLERS.



Note

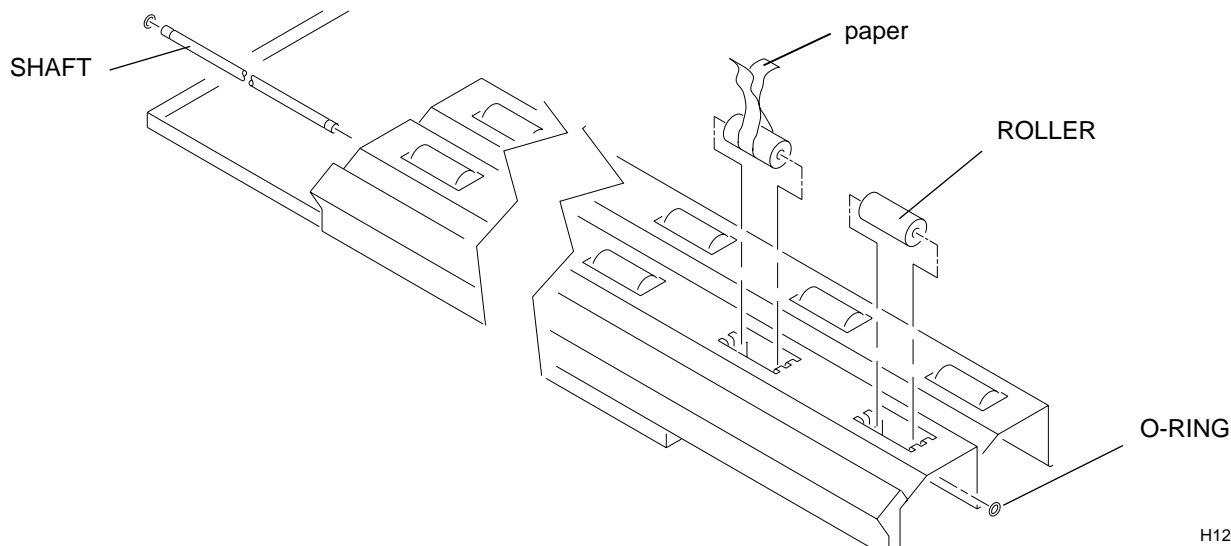
You can use the piece of paper wrapped around the new ROLLER to hold the ROLLER in position during installation.

[6] Place the new first ROLLER in position.

[7] Insert the SHAFT through the ROLLER.

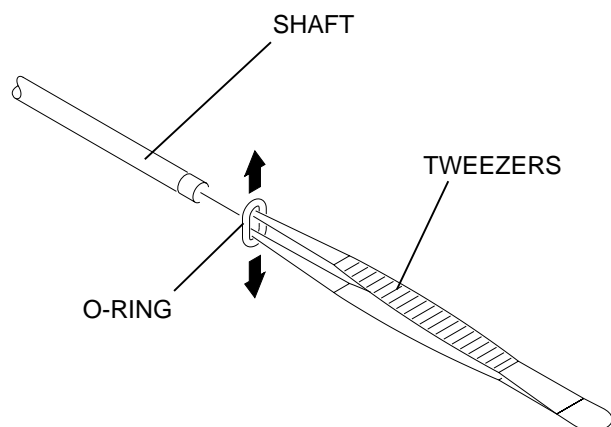
[8] Do Steps 6 - 7 for the other ROLLERS.

Figure 1-14 Replacement of the ROLLERS on the ACCESS DOOR



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Figure 1-15

Using TWEEZERS to Install an O-RING

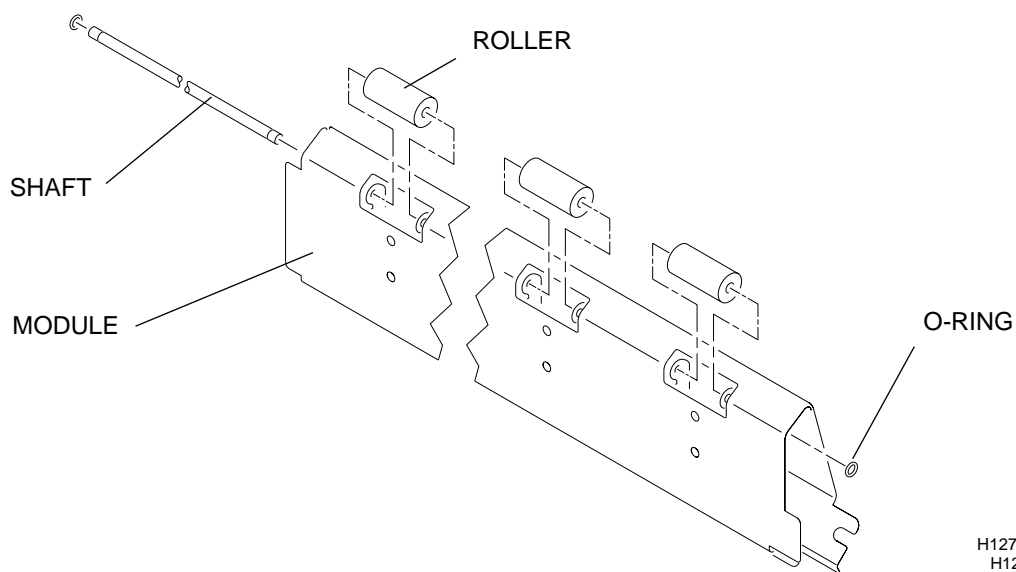
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[9] Install the O-RING.

Note

For easier installation of the O-RING, use TWEEZERS to stretch the O-RING over the SHAFT. See Figure 1-15.

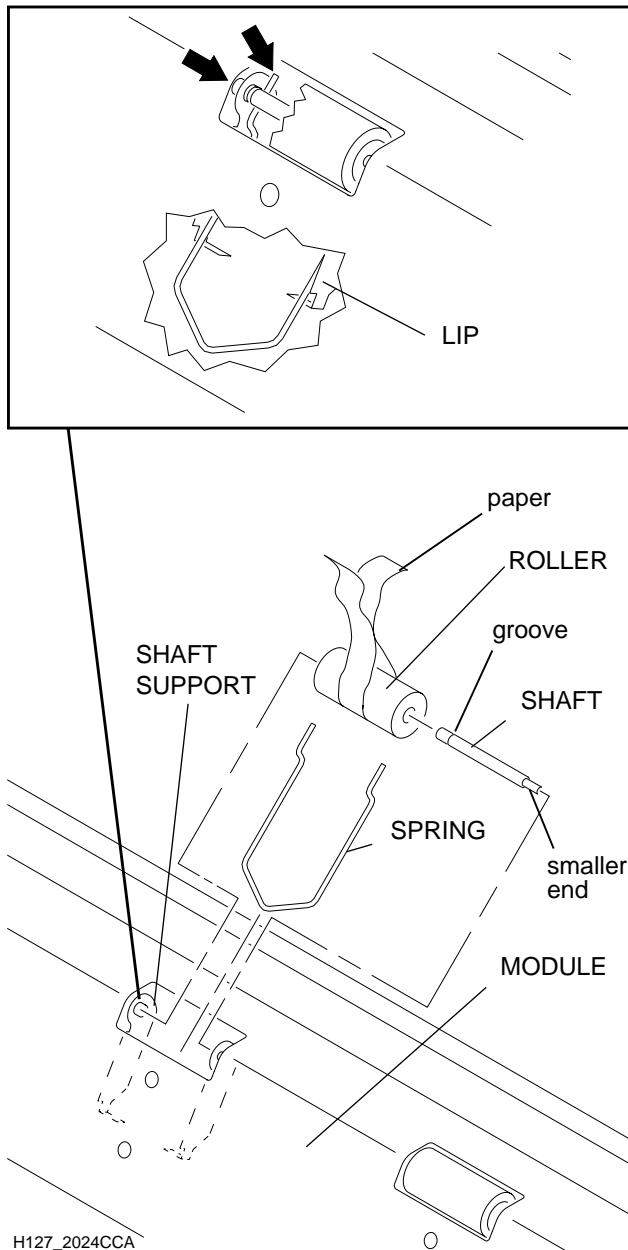
[10] For a MODULE, reverse the steps on Page 1-11 to install the MODULE in the SORTER.

Figure 1-16 **Replacement of the ROLLERS on a LEAD or MAIN MODULE**

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Replacement of the IDLER ROLLERS and SPRINGS on a MODULE

Figure 1-17 Replacement of the IDLER ROLLERS on a MODULE



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- [1] Remove the MODULE. See Page [1-11](#).
- [2] Use a small SCREWDRIVER to press down on the SPRING to remove it from the groove in the SHAFT.
- [3] Move the SHAFT toward the smaller end of the SHAFT until the larger end is removed from the SHAFT SUPPORT.
- [4] Tilt the ROLLER until the larger end of the SHAFT is above the SHAFT SUPPORT.
- [5] Remove the ROLLER from the SHAFT.
- [6] Remove the SHAFT.
- [7] To remove the SPRING, pull it up from the LIP.
- [8] Reverse the steps to install new ROLLERS or SPRINGS.
- [9] Check that the SPRING is between the LIP and the MODULE and in the groove on the SHAFT.
- [10] If necessary, remove other components on the MODULE and install new components. See Pages [1-11](#) through [1-14](#).
- [11] Reverse the steps on Page [1-11](#) to install the MODULE in the SORTER.

Note

You can use a piece of paper wrapped around the new ROLLER to hold the ROLLER in position during installation.

Replacement of the BIN ROLLER

Note

For replacement of the BEARINGS or the GEAR on the BIN ROLLERS, see the procedure at the bottom of this page and the procedure on Page [1-18](#).

- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.



Important

Do not allow the E-RING to fall.

- [3] Use NEEDLE-NOSE PLIERS to remove the E-RING from the BIN ROLLER.
- [4] Move the WASHER toward the back of the SORTER, beyond the groove on the BIN ROLLER.
- [5] Move the BIN ROLLER fully toward the front of the SORTER.
- [6] To remove the back BEARING from the SORTER FRAME, press it toward the front of the SORTER.

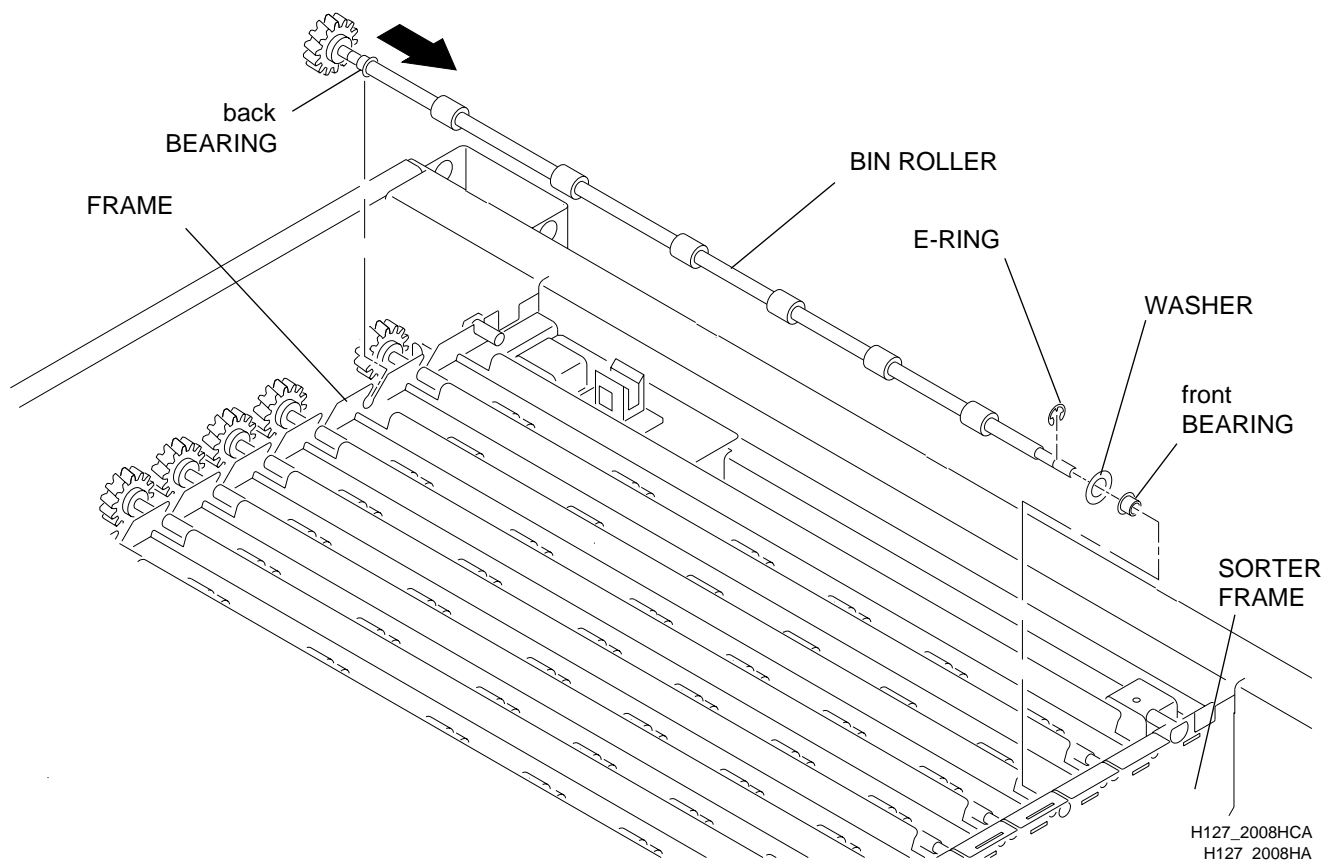


Important

Do not allow the WASHER to fall.

- [7] Lift the back of the BIN ROLLER, and move the BIN ROLLER toward the back of the SORTER to remove the BIN ROLLER from the SORTER.

Figure 1-18 Replacement of the BIN ROLLER and the BEARINGS



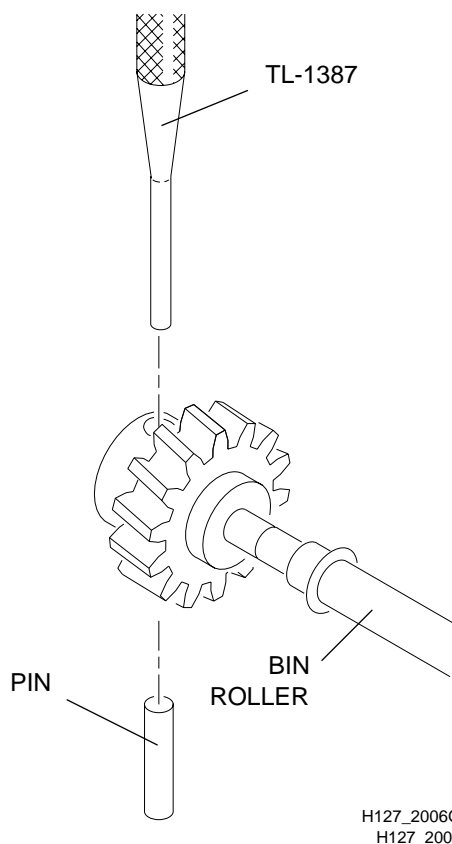
Replacement of the Front BEARING

- [1] Use the above procedure to remove the BIN ROLLER.
- [2] Pry the front BEARING from the FRAME.

Replacement of the GEAR or the Back BEARING

Figure 1-19

Removing the PIN from the BIN ROLLER



[1] Remove the BIN ROLLER. See Page [1-17](#).

[2] Use a ROLL PIN PUNCH TL-1387 to remove the PIN from the BIN ROLLER.

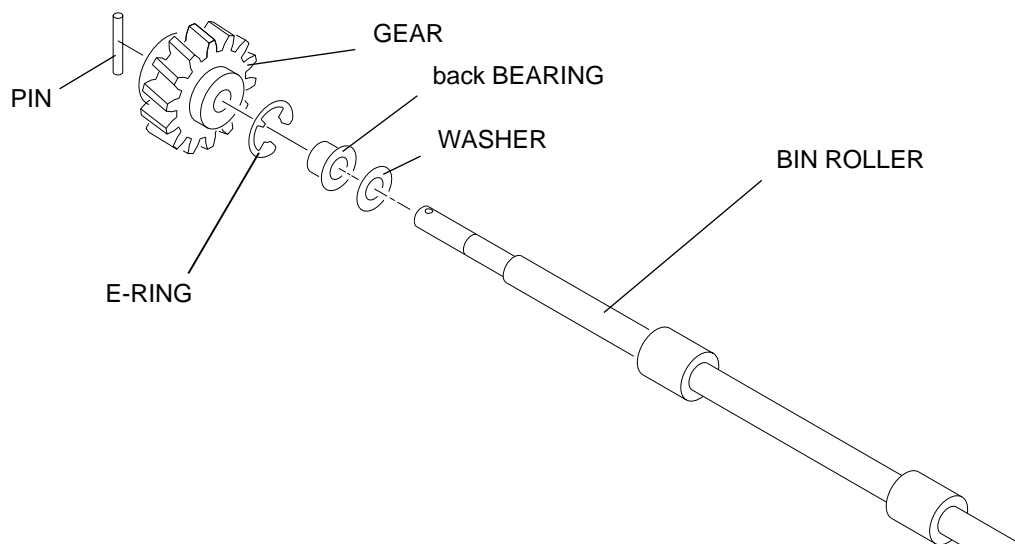
[3] Remove from the BIN ROLLER:

- GEAR
- E-RING
- BEARING

Note

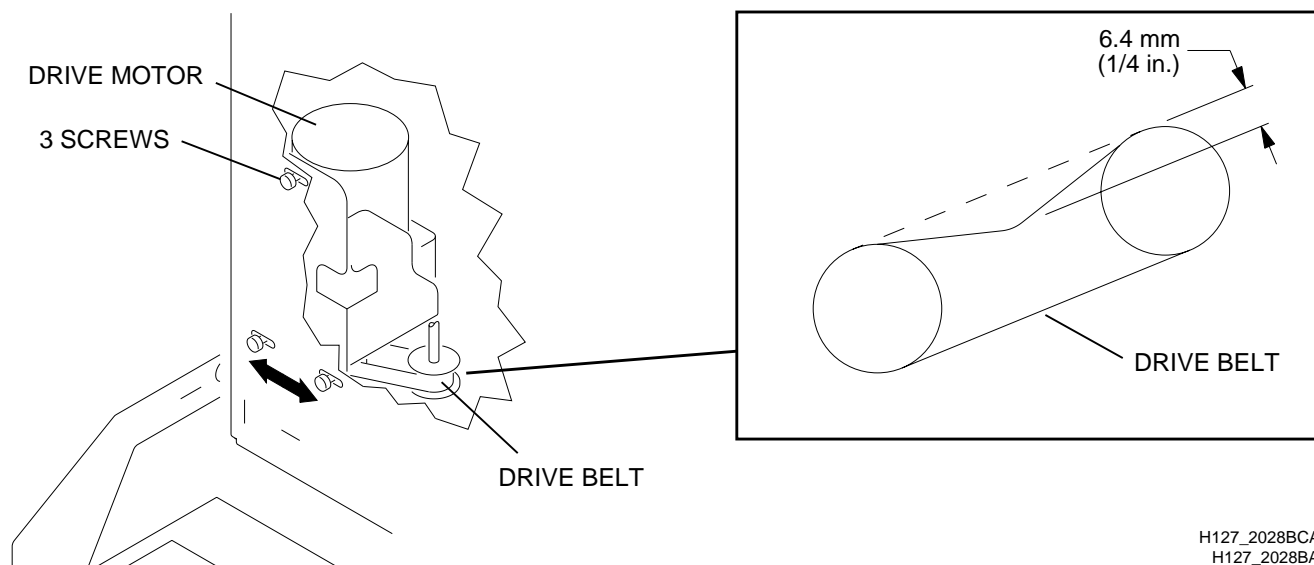
When installing the GEAR, use a new PIN and new E-RING.

Figure 1-20 Replacement of the GEAR or the Back BEARING



Replacement and Adjustment of the DRIVE BELT

Figure 1–21 **Adjusting the Tension on the DRIVE BELT**



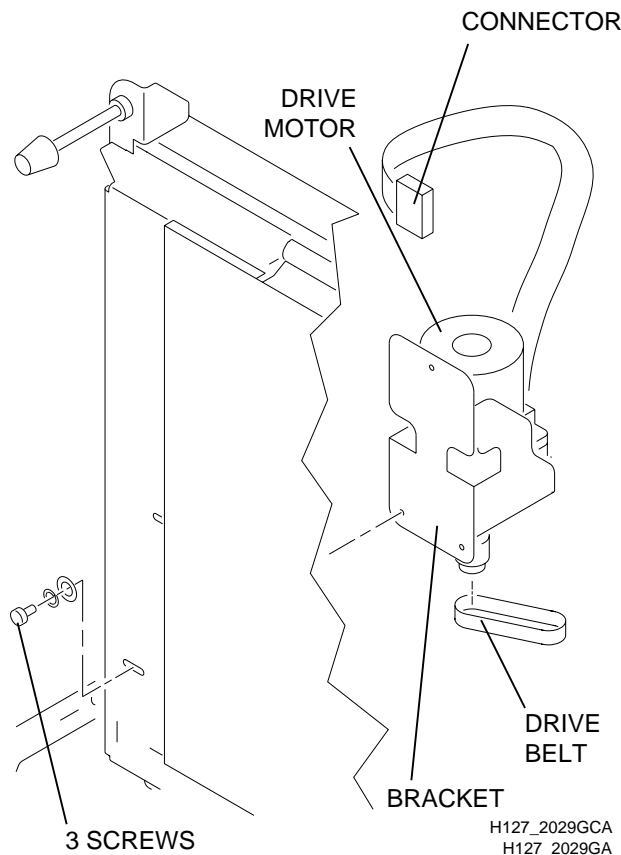
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- [1] De-energize the PROCESSOR. See Page [1–5](#).
- [2] Do the General Access procedure on Page [1–6](#) as required.
- [3] Loosen the 3 SCREWS that hold the DRIVE MOTOR. For access to 1 of the SCREWS, open the ACCESS DOOR. See Figure [1–5](#) on Page [1–7](#).
- [4] To loosen the DRIVE BELT, move the DRIVE MOTOR.
- [5] Remove the existing DRIVE BELT and install a new one.
- [6] Adjust the tension on the DRIVE BELT by moving the DRIVE MOTOR.
- [7] Press on the center of the DRIVE BELT until the deflection is 6.4 mm ($\frac{1}{4}$ in.).
- [8] Holding the DRIVE MOTOR in this position, tighten the 3 SCREWS.

Replacement of the DRIVE MOTOR or the GEARBOX

Figure 1-22

Replacement of the DRIVE MOTOR



Note

If necessary, to more easily disconnect the CONNECTOR, remove the BRACKET for the MOTOR CONTROLLER BOARD. See Page [1-24](#).

[1] Disconnect the CONNECTOR.

[2] Remove:

- 3 SCREWS that hold the BRACKET to the SORTER
- DRIVE BELT from the GEAR on the DRIVE MOTOR
- DRIVE MOTOR and BRACKET from the SORTER
- 4 SCREWS that hold the DRIVE MOTOR to the BRACKET
- GEARBOX from the DRIVE MOTOR

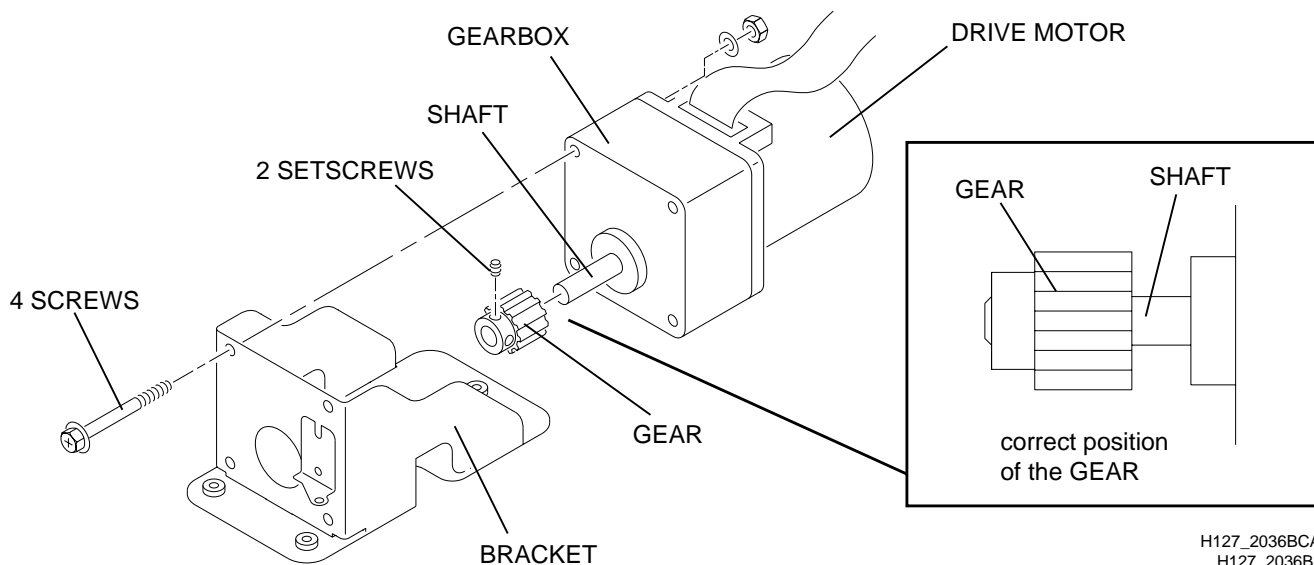
[3] If installing a new GEARBOX:

- (a) Loosen the 2 SETSCREWS and remove the GEAR from the SHAFT.
- (b) Install the GEAR on the SHAFT of the new GEARBOX in the correct position. See Figure [1-23](#).

[4] To install the new DRIVE MOTOR or GEARBOX, reverse the steps above.

[5] Adjust the tension on the DRIVE BELT. See Page [1-19](#).

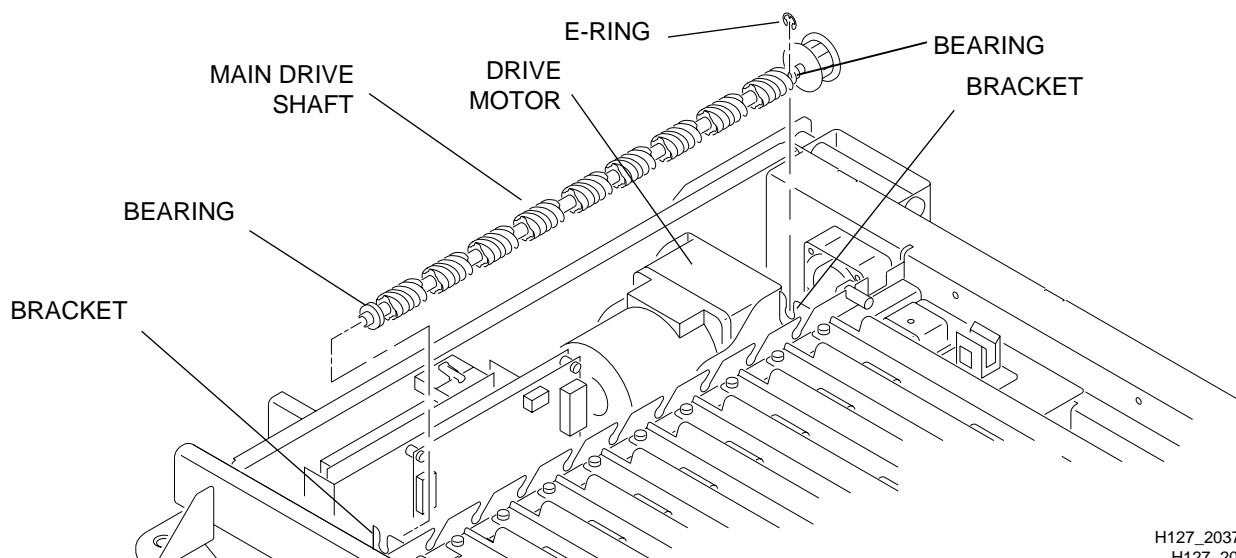
Figure 1-23 Removing the GEAR from the DRIVE MOTOR



Replacement of the MAIN DRIVE SHAFT

- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.
- [3] Loosen the 3 SCREWS that hold the DRIVE MOTOR. See Figure [1-21](#) on Page [1-19](#).
- [4] Remove:
 - DRIVE BELT; see Page [1-19](#)
 - 9 BIN ROLLERS; see Page [1-17](#)
 - E-RING that is adjacent to the BEARING from the right end of the MAIN DRIVE SHAFT
- [5] Press the BEARINGS and the MAIN DRIVE SHAFT to the right and out of the BRACKETS.
- [6] Lift the MAIN DRIVE SHAFT from the SORTER.
- [7] To install a new MAIN DRIVE SHAFT, reverse the above procedure.

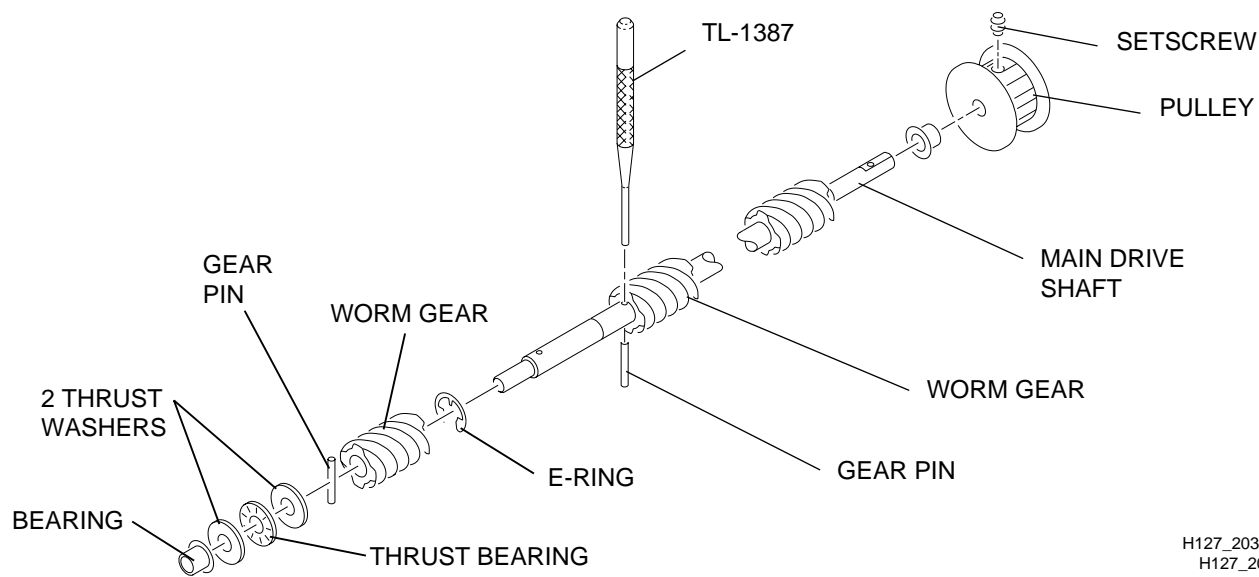
Figure 1-24 Replacement of the MAIN DRIVE SHAFT



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Replacement of the WORM GEARS

Figure 1–25 Removal of a WORM GEAR

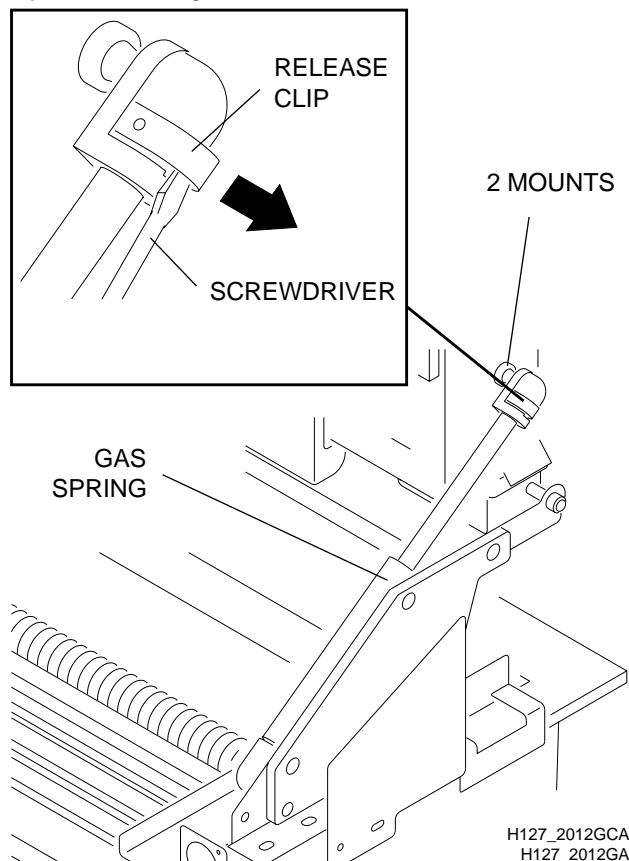


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- [1]** Remove the MAIN DRIVE SHAFT. See Page [1–21](#).
- [2]** Remove from the MAIN DRIVE SHAFT:
 - BEARING
 - 2 THRUST WASHERS and THRUST BEARING
 - E-RING that is adjacent to the first WORM GEAR
 - GEAR PIN from the first WORM GEAR
 - first WORM GEAR
- [3]** Do Step [2](#) for the other WORM GEARS.
- [4]** To install new WORM GEARS, reverse the steps above.

Replacement of the GAS SPRING

Figure 1-26 Replacement of the GAS SPRING



- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.
- [3] Lift the SORTER, and hold it with your left hand.



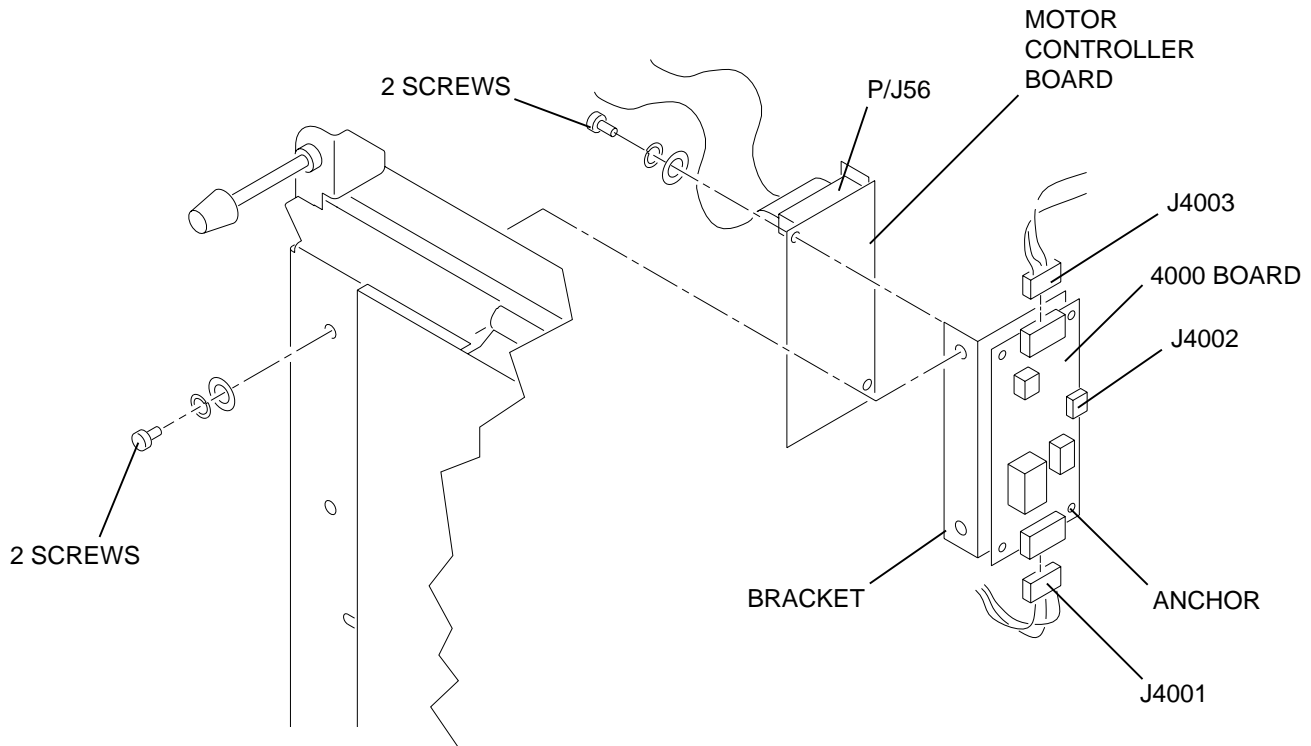
Warning

The SORTER weighs 20 kg (45 lb). Hold the SORTER while you release the GAS SPRING from the MOUNT.

- [4] **Continue holding the SORTER in the up position with your left hand**, and pry the RELEASE CLIP with a SCREWDRIVER while pulling the GAS SPRING from the top MOUNT. See the figure.
- [5] Continue holding the SORTER in the up position with your left hand, and release the RELEASE CLIP on the bottom MOUNT.
- [6] Remove the GAS SPRING from the SORTER.
- [7] Install the new GAS SPRING with the larger end down. See the figure.

Replacement of the 4000 BOARD or MOTOR CONTROLLER BOARD

Figure 1-27 Installation of a New BOARD



H127_2030HCA
H127_2030HA

- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.



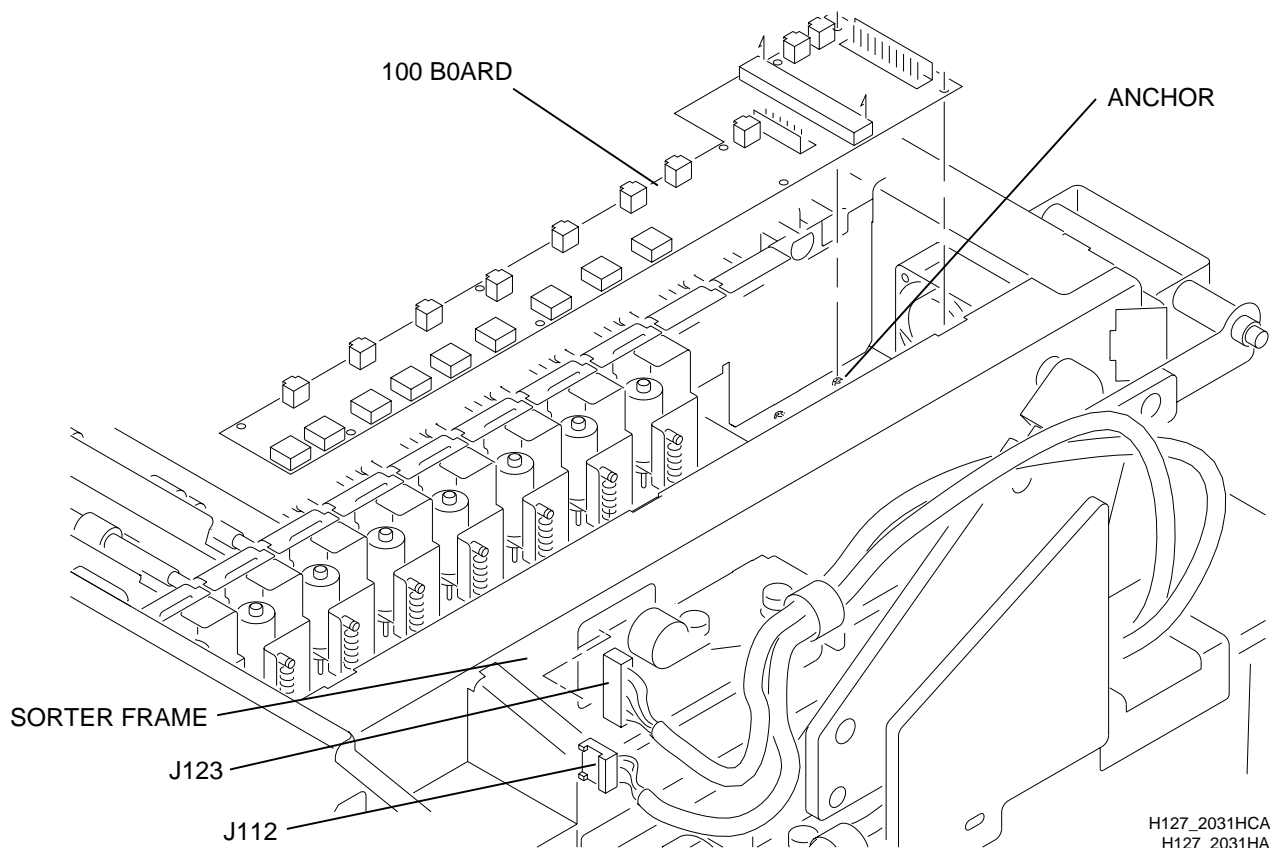
ESD

Possible damage from electrostatic discharge.

- [3] Remove the 2 SCREWS from the BRACKET.
- [4] For access to the CONNECTORS and BOARDS, lift the BRACKET from the PROCESSOR.
- [5] Disconnect CONNECTORS J4001, J4002, and J4003 from the 4000 BOARD or the CONNECTOR from the MOTOR CONTROLLER BOARD.
- [6] Release the ANCHORS and remove the 4000 BOARD or remove the 2 SCREWS and the MOTOR CONTROLLER BOARD.
- [7] Reverse the procedure to install a new 4000 BOARD or MOTOR CONTROLLER BOARD.

Replacement of the 100 BOARD

Figure 1–28 Installation of a New 100 BOARD



- [1] De-energize the PROCESSOR. See Page [1–5](#).
- [2] Do the General Access procedure on Page [1–6](#) as required.



ESD

Possible damage from electrostatic discharge.

- [3] Disconnect all the CONNECTORS from the 100 BOARD. See Figure [1–29](#) on Page [1–26](#).
- [4] Pull CONNECTORS J112 and J123 through the SORTER FRAME.



Important

- If necessary, pry the 100 BOARD off the ANCHOR. Be careful or the BOARD may break. To prevent damage to the conductive material on the BOARD, do not use tools that have sharp edges.
 - Component wires may break where they are mounted to the BOARD. Use caution when removing the 100 BOARD not to hit the components or wires.
- [5] Wrap electrical tape around the blade of a flat-head SCREWDRIVER.
 - [6] Place the blade as close as possible to an ANCHOR point under one end of the 100 BOARD.
 - [7] Carefully pry the 100 BOARD off one of the 9 ANCHORS.
 - [8] Continue down the 100 BOARD, prying the 100 BOARD from the ANCHORS.

Diverter Solenoid Positions	
100 Bd Connector	Diverter Solenoid No.
J101	1
J102	2
J103	3
J104	4
J105	5
J106	6
J107	7
J108	8

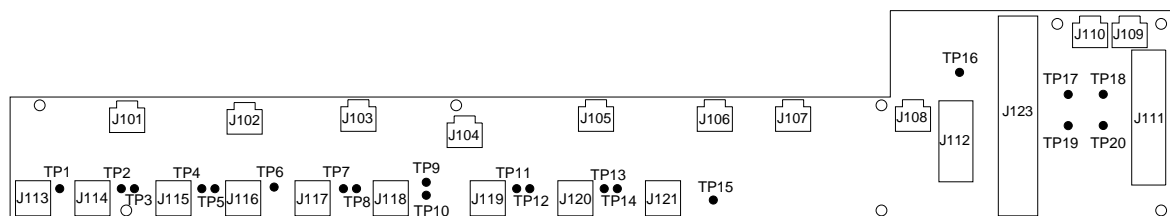
Bin Sensor Connector Positions	
100 Bd Connector	Bin Sensor No.
J113	1
J114	2
J115	3
J116	4
J117	5
J118	6
J119	7
J120	8
J121	9

Other Connector Positions	
J109	B11 Fan
J110	B12 Fan
J111	Sorter Harness
J112	Sorter Harness
J123	4000 Board Harness

Figure 1–29 Installation of a New 100 BOARD

[9] Install the new 100 BOARD:

- (a) Place the new 100 BOARD in position.
- (b) Carefully press near an ANCHOR point on the 100 BOARD until the 100 BOARD snaps onto the ANCHOR.
- (c) Press near each of the other ANCHORS.
- (d) Connect all the CONNECTORS to the 100 BOARD.



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Replacement of the IDLER GEARS

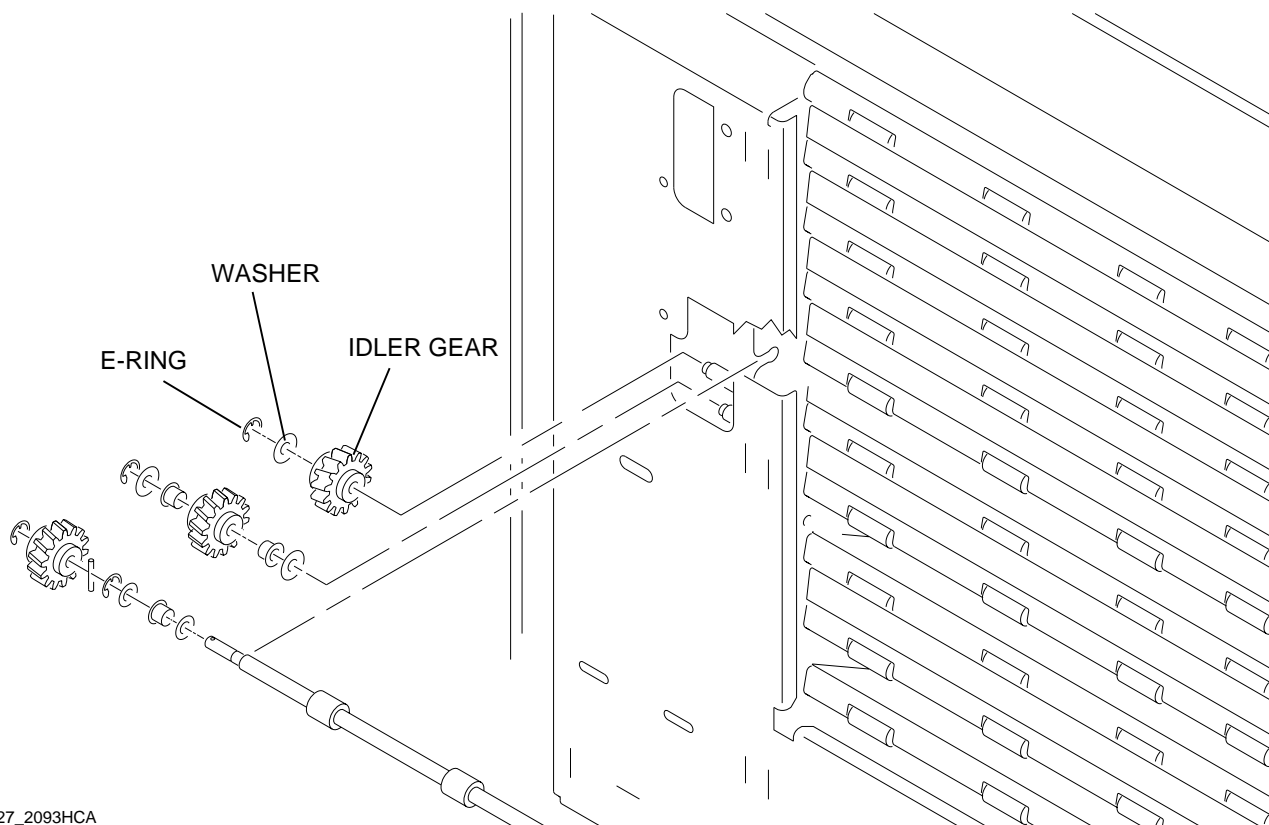
- [1] De-energize the PROCESSOR. See Page [1-5](#).
- [2] Do the General Access procedure on Page [1-6](#) as required.

**ESD**

Possible damage from electrostatic discharge.

- [3] Remove the 2 SCREWS from the BRACKET that holds the 4000 BOARD. See Figure [1-27](#) on Page [1-24](#).
- [4] For access to the 2 IDLER GEARS, move the BRACKET as necessary.
- [5] To remove the IDLER GEAR, remove:
 - E-RING
 - WASHER
 - IDLER GEAR
- [6] Install a new IDLER GEAR, WASHER, and E-RING.
- [7] Check that the IDLER GEARS engage.
- [8] Install the BRACKET AND BOARD ASSEMBLY.

Figure 1-30 **Installation of New IDLER GEARS**



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H127_2093HA

Preventive Maintenance

No preventive maintenance is necessary for the SORTER. Routine preventive maintenance on the PROCESSOR is, however, critical, especially cleaning the DRYER RACK and the EXIT RACK. RACKS that are not kept clean can cause delays in the transport of the film. Delays will affect the timing of when films are sensed by the SORTER and error codes E101 - E109.