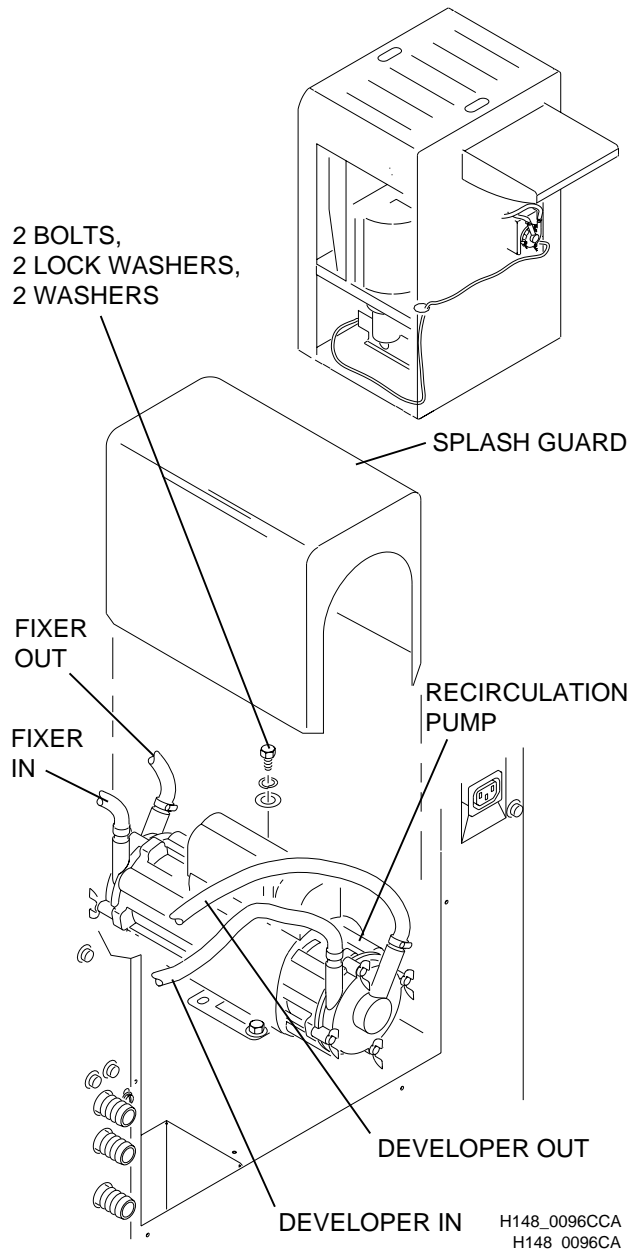


Section 5: Plumbing

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Removing the RECIRCULATION PUMP B5



[1] De-energize the PROCESSOR.

[2] Remove:

- TOP COVER
- NONDRIVE and DRIVE PANELS
- RECEIVING BIN
- ELECTRICAL BOX ACCESS PANEL



Important

To help you do the next step, see the Service Overview in Section 1:

- Routing of the CABLE HARNESS
- Identifying Connections on the COMPONENT PLATE

[3] Disconnect CONNECTOR P/J13 from the COMPONENT PLATE.

[4] Remove the SPLASH GUARD from the RECIRCULATION PUMP.

[5] Place a CLAMP TL-2170 on each of the 4 RECIRCULATION HOSES.



Important

In the next step, place a mark on each HOSE as you remove it to help you identify it later.

[6] Loosen and disconnect the HOSE CLAMPS of the 4 RECIRCULATION HOSES:

- DEVELOPER IN
- DEVELOPER OUT
- FIXER IN
- FIXER OUT

[7] Remove:

- 2 BOLTS, 2 LOCK WASHERS, and 2 WASHERS
- RECIRCULATION PUMP

[8] Install the new RECIRCULATION PUMP.

[9] Connect:

- 4 RECIRCULATION HOSES
- CONNECTOR P/J13

[10] Remove the CLAMPS TL-2170.

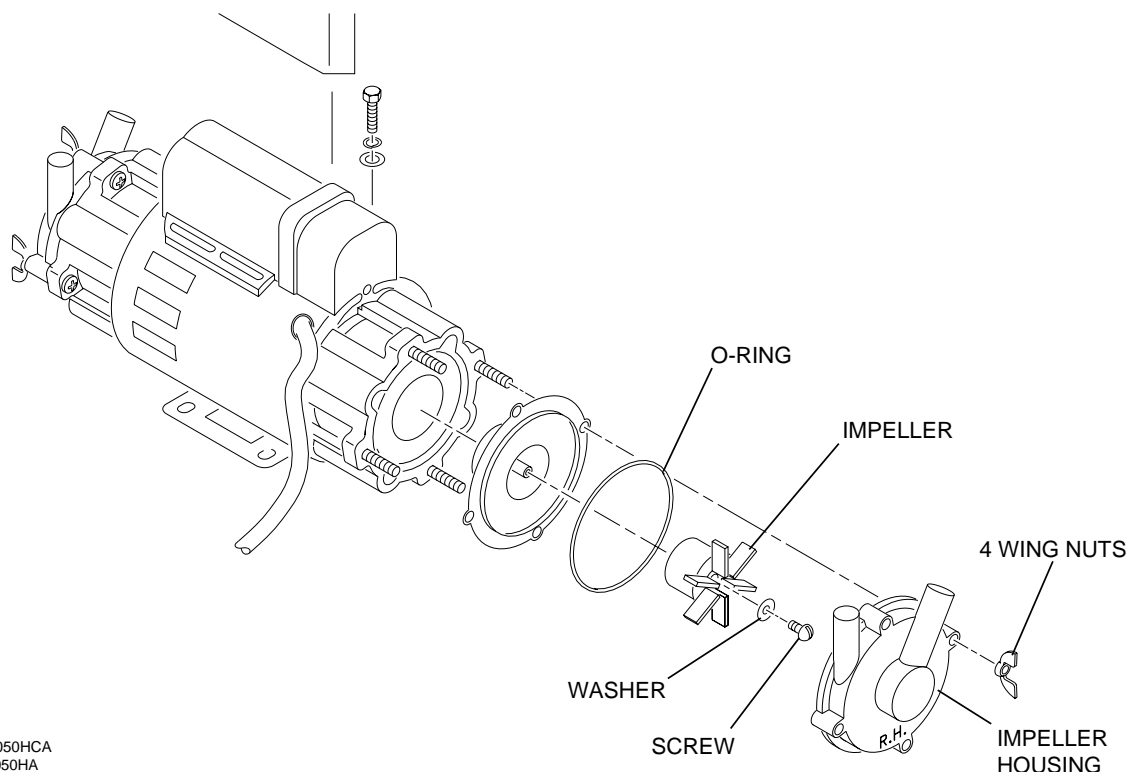
[11] Energize the PROCESSOR.

[12] Observe the surface of the solution for movement to check that recirculation occurs.

[13] Check for leakage.

[14] Assemble the PROCESSOR.

Removing the IMPELLER or the IMPELLER HOUSING



H148_0050HCA
H148_0050HA

[1] Remove the RECIRCULATION PUMP B5.

[2] Remove:

- 4 WING NUTS
- IMPELLER HOUSING



Caution

To prevent chemical contamination, do *not* interchange the IMPELLERS or the IMPELLER HOUSINGS for developer and fixer.

[3] Remove:

- SCREW
- WASHER
- IMPELLER



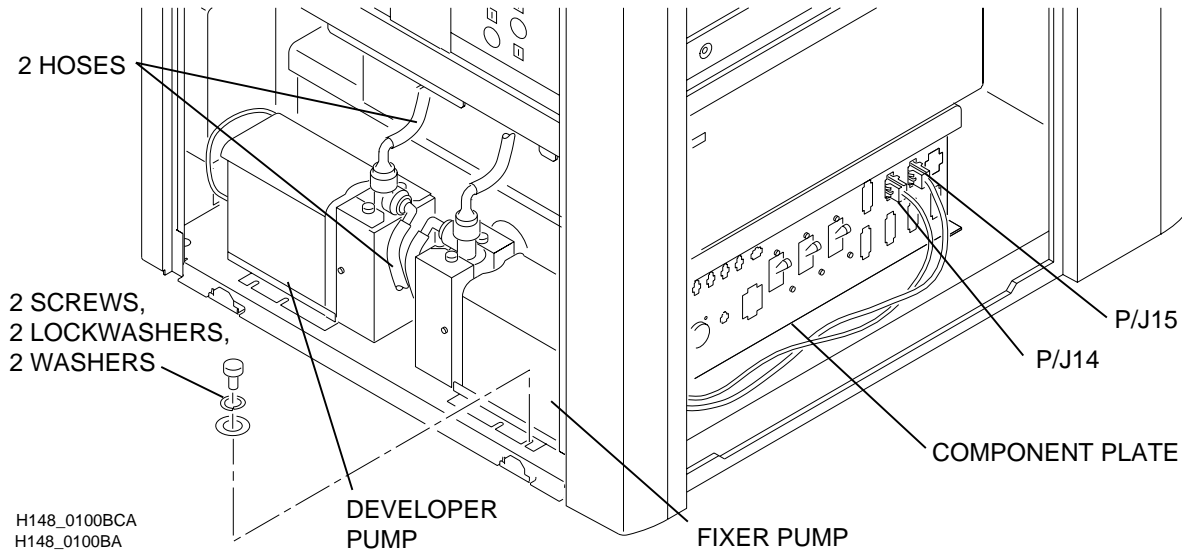
Caution

To prevent leakage, the O-RING must seat correctly.

[4] Check the O-RING for wear. If necessary, install a new O-RING.

[5] Assemble the PROCESSOR and check that it operates correctly.

Removing the REPLENISHMENT PUMPS: B3 and B4



[1] De-energize the PROCESSOR.

[2] Remove:

- TOP COVER
- DRIVE SIDE PANEL
- RECEIVING BIN
- ELECTRICAL BOX ACCESS PANEL



Important

To help you do the next 2 steps, see the Service Overview in Section 1:

- Routing of the CABLE HARNESS
- Identifying connections on the COMPONENT PLATE
- Installing the CLAMP TL-2170

[3] To remove the

- DEVELOPER PUMP B3, disconnect P/J14
- FIXER PUMP B4, disconnect P/J15

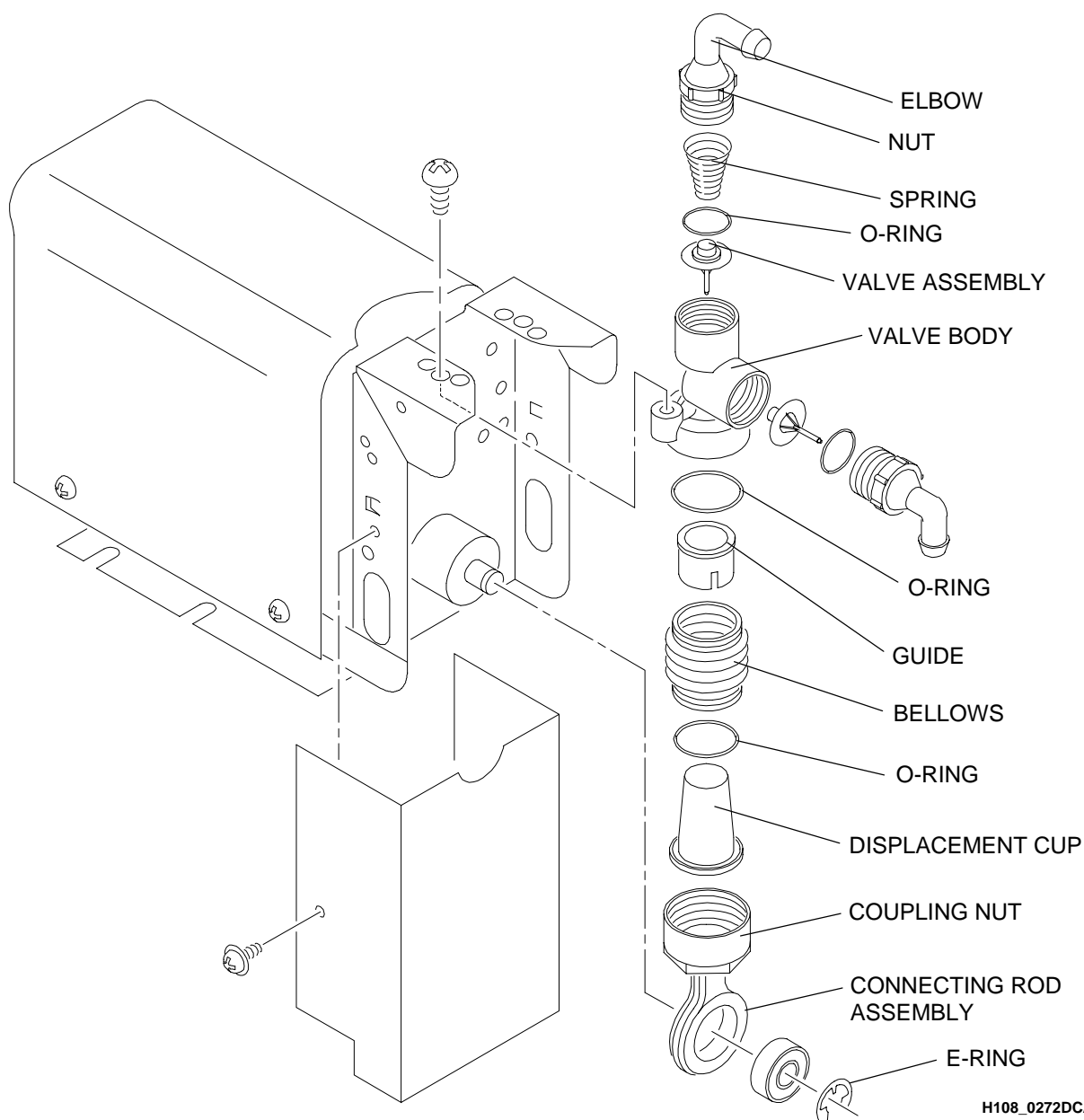
[4] Install a CLAMP TL-2170 on each of the 2 HOSES of the correct REPLENISHMENT PUMP:

- DEVELOPER PUMP
- FIXER PUMP

[5] Loosen the HOSE CLAMPS and remove the 2 HOSES from the PUMP.

[6] Remove:

- 2 SCREWS
- REPLENISHMENT PUMP



H108_0272DCA
H108_0272DA

[7] Check the PUMP for damaged parts.

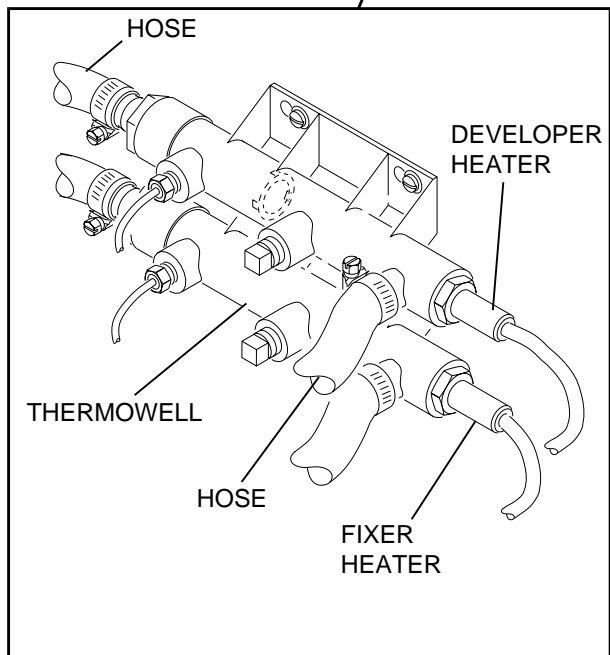
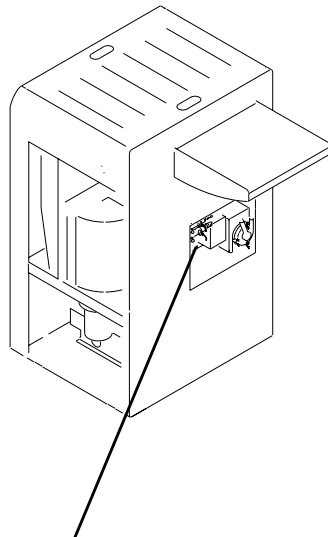


Caution

The SPRING must be installed correctly for correct replenishment rates and calibration.

- [8] If necessary, install new parts or install a new REPLENISHMENT PUMP.
- [9] Install all parts removed in previous steps and make necessary connections.
- [10] Remove the CLAMP TL-2170 from each of the REPLENISHMENT HOSES.
- [11] See the Operator Manual and calibrate the PUMPS.
- [12] Assemble the PROCESSOR and check that it operates correctly.

Removing the HEATER for the Developer or Fixer



H148_0121CCA
H148_0121CA

[1] De-energize the PROCESSOR.

[2] Remove:

- TOP COVER
- NONDRIVE and DRIVE SIDE PANELS
- RECEIVING BIN
- MIDDLE ACCESS PANEL
- ELECTRICAL BOX ACCESS PANEL

[3] For the developer or the fixer, do either a or b:

- a. Drain the TANK by opening the DRAIN VALVE for either the developer or fixer.
- b. Place a CLAMP TL-2170 on each of the 2 HOSES for the correct THERMOWELL.



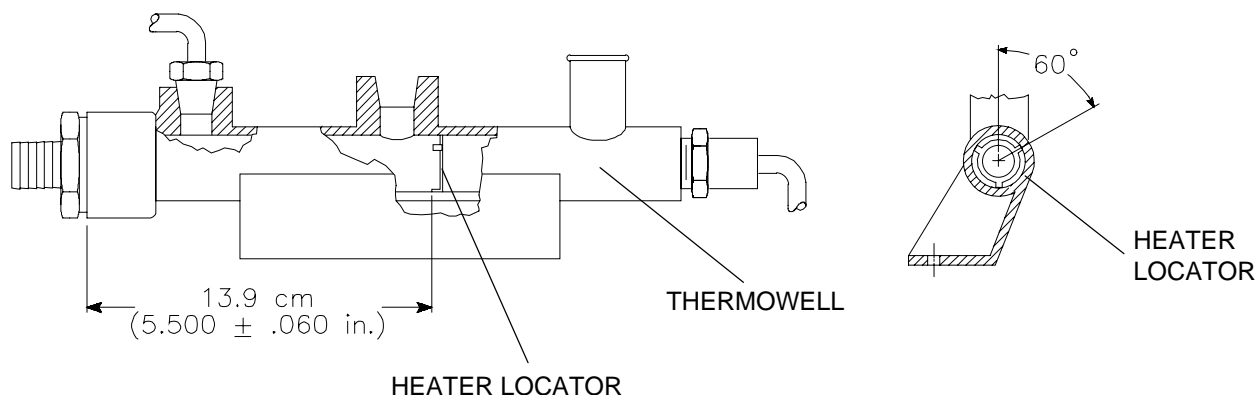
Important

To help you do the next step, see the Service Overview in Section 1:

- Routing of the CABLE HARNESS
- Identifying Connections on the COMPONENT PLATE
- Installing the CLAMP TL-2170

[4] Disconnect the CONNECTOR from the COMPONENT PLATE:

- Developer: P/J18
- Fixer: P/J19



H108_0120BCA
H108_0120BA



Caution

A small amount of solution will spill when you remove the DEVELOPER HEATER or the FIXER HEATER.

[5] Remove the correct HEATER from the THERMOWELL:

- DEVELOPER HEATER
- FIXER HEATER



Caution

- When you install the HEATER, use SEALANT TL-3230. A different SEALANT might cause damage to the plastic in the THERMOWELL. Check the instructions packed with the SEALANT.
- To prevent cracks in the THERMOWELL do *not* overtighten the HEATER.

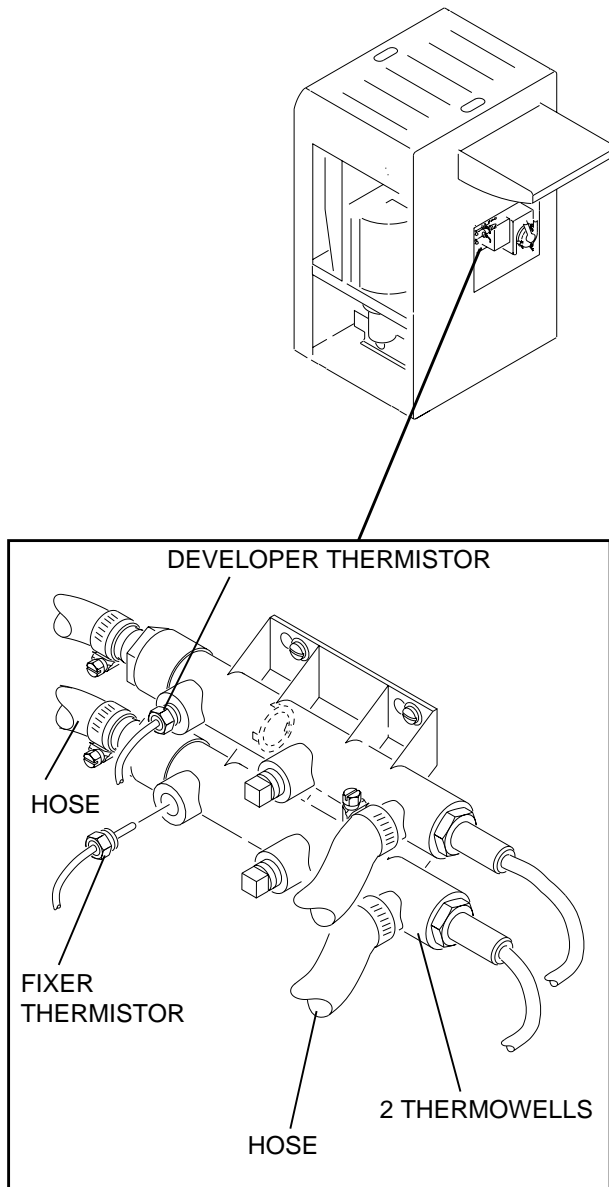
[6] Check that the HEATER LOCATOR is 13.9 cm (5.5 in.) from the end opposite the HEATER.

[7] Install the new HEATER. Tighten by hand plus 1/2 rotation.

[8] Check for leakage from the THERMOWELL.

[9] Assemble the PROCESSOR and check that it operates correctly.

Removing the THERMISTOR for the Developer or Fixer



H148_0104CCA
H148_0104CA

[1] De-energize the PROCESSOR.

[2] Remove:

- TOP COVER
- NONDRIVE and DRIVE SIDE PANELS
- RECEIVING BIN
- MIDDLE ACCESS PANEL
- ELECTRICAL BOX ACCESS PANEL

[3] For the developer or the fixer, do either (a) or (b):

- (a) Drain the TANK by opening the DRAIN VALVE for either the developer or fixer.
- (b) Place a CLAMP TL-2170 on each of the 2 HOSES for the correct THERMOWELL.



Important

To help you do the next step, see the Service Overview in Section 1:

- Routing of the CABLE HARNESS
- Identifying Connections on the COMPONENT PLATE

[4] Disconnect the CONNECTOR from the COMPONENT PLATE:

- Developer: P/J6
- Fixer: P/J7



Caution

- A small amount of solution will spill when you remove the THERMISTOR.
- To prevent cracks in the THERMOWELL, use caution when you remove or install the THERMISTOR.
- When you install the HEATER, use SEALANT TL-3230. A different SEALANT might cause damage to the plastic in the THERMOWELL. Check the instructions packed with the SEALANT.

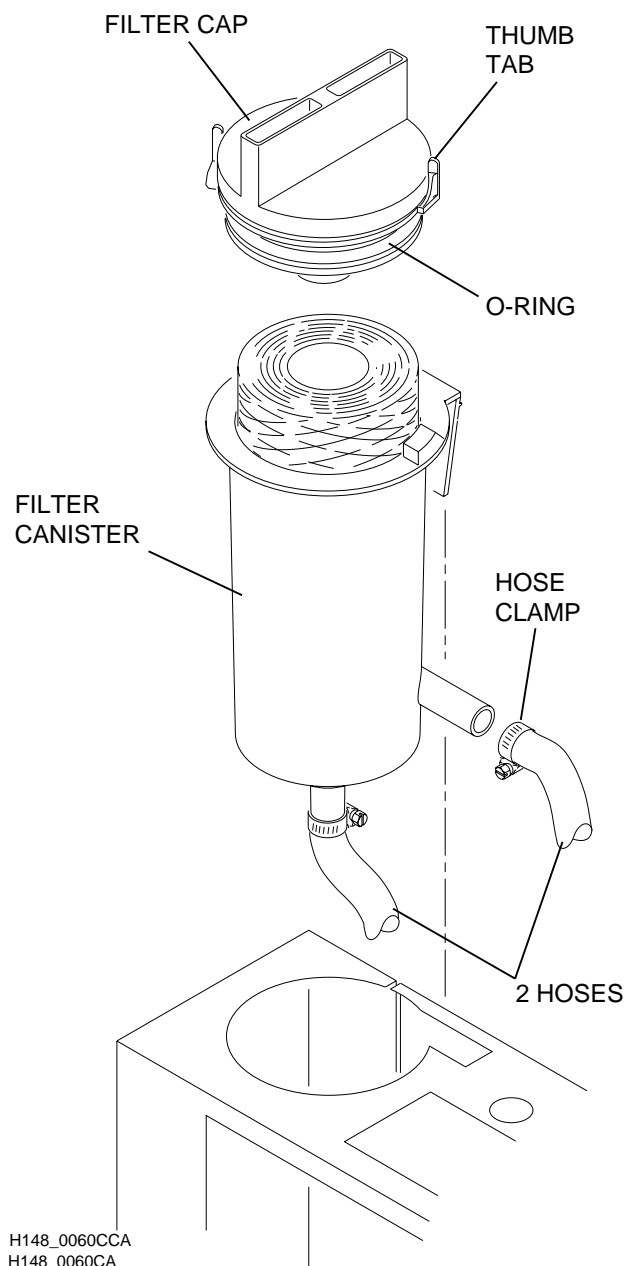
[5] Loosen and remove the THERMISTOR.

[6] Insert the replacement THERMISTOR and tighten it by hand 1/2 rotation.

[7] Apply SEALANT TL-3230.

[8] Assemble the PROCESSOR and check that it operates correctly.

Removing the DEVELOPER FILTER CANISTER



- [1] De-energize the PROCESSOR.
- [2] Remove:
 - TOP COVER
 - DRIVE SIDE PANEL
- [3] Do either a or b:
 - a. Drain the TANK by opening the DRAIN VALVE for the developer.
 - b. Place a CLAMP TL-2170 on each of the 2 HOSES.
- [4] Remove:
 - FILTER CAP
 - DEVELOPER FILTER.
- [5] Loosen the HOSE CLAMPS and remove the 2 HOSES from the FILTER CANISTER.
- [6] Remove the FILTER CANISTER.
- [7] Check the O-RING for damage and that the O-RING seats correctly.
- [8] Install the new FILTER CANISTER.
- [9] Connect the 2 HOSES to the FILTER CANISTER.

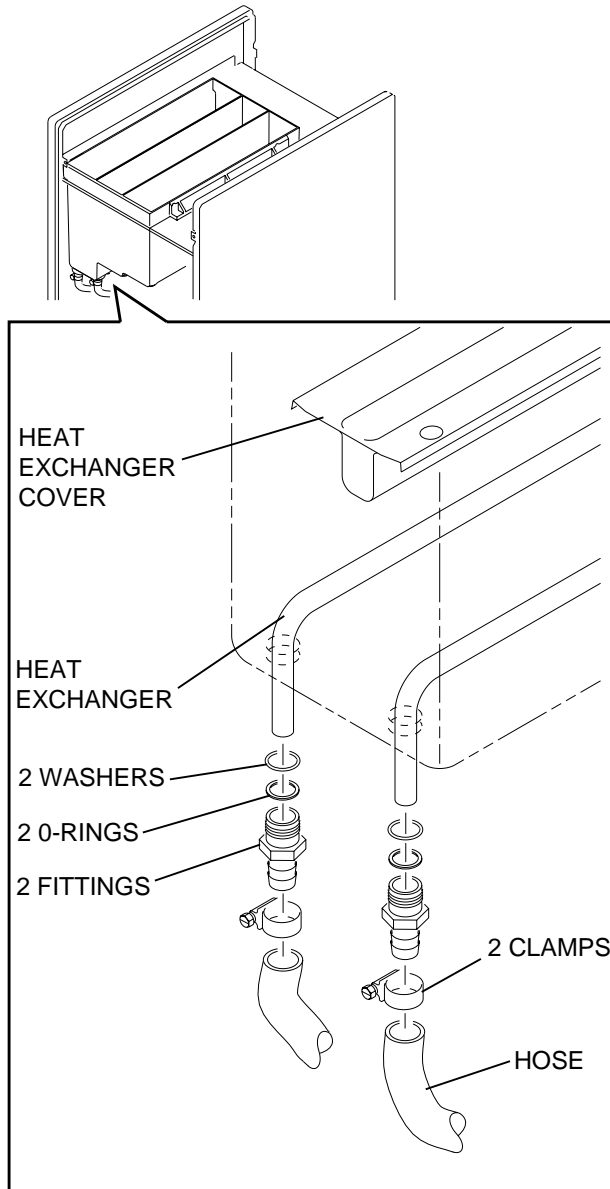


Caution

To prevent leakage, the FILTER CAP must be installed tightly.

- [10] Install the new DEVELOPER FILTER.
- [11] Install the existing FILTER CAP:
 - a. Rotate the FILTER CAP until it is tight.
 - b. Rotate the THUMB TAB clockwise until it is tight.
- [12] Assemble the PROCESSOR.

Removing the DEVELOPER HEAT EXCHANGER



H148_0064CCA
H148_0064CA

- [1] De-energize the PROCESSOR.
- [2] Shut off the water to the PROCESSOR.
- [3] Remove:
 - TOP COVER
 - NONDRIVE SIDE PANEL
 - MIDDLE ACCESS PANEL



Caution

Prevent damage from spills of solution on the MOTORS and electrical connections.

- [4] Drain the DEVELOPER TANK.

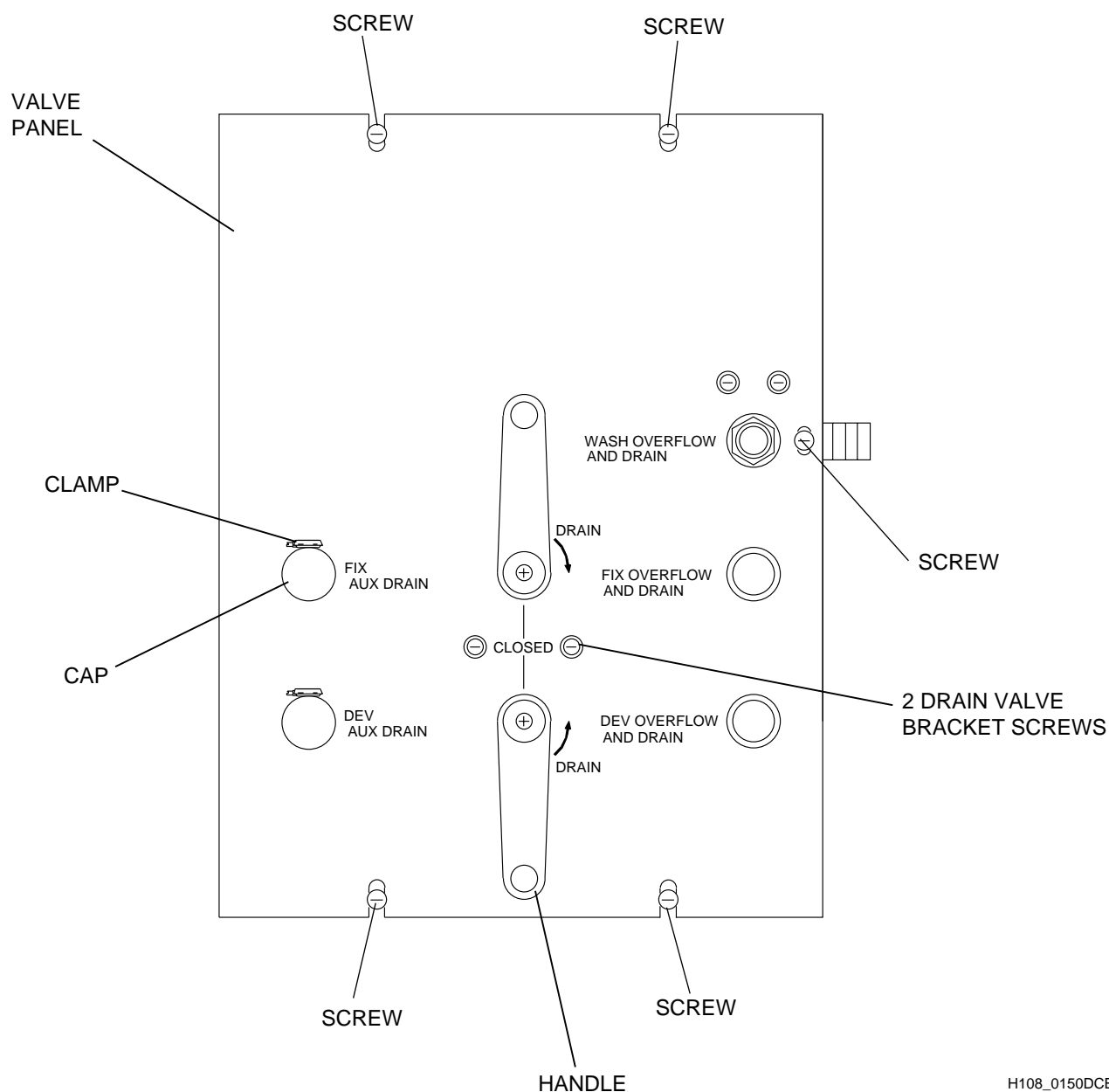


Caution

Use the correct procedures to remove CROSSOVERS and RACKS. See the Service Overview in Section 1.

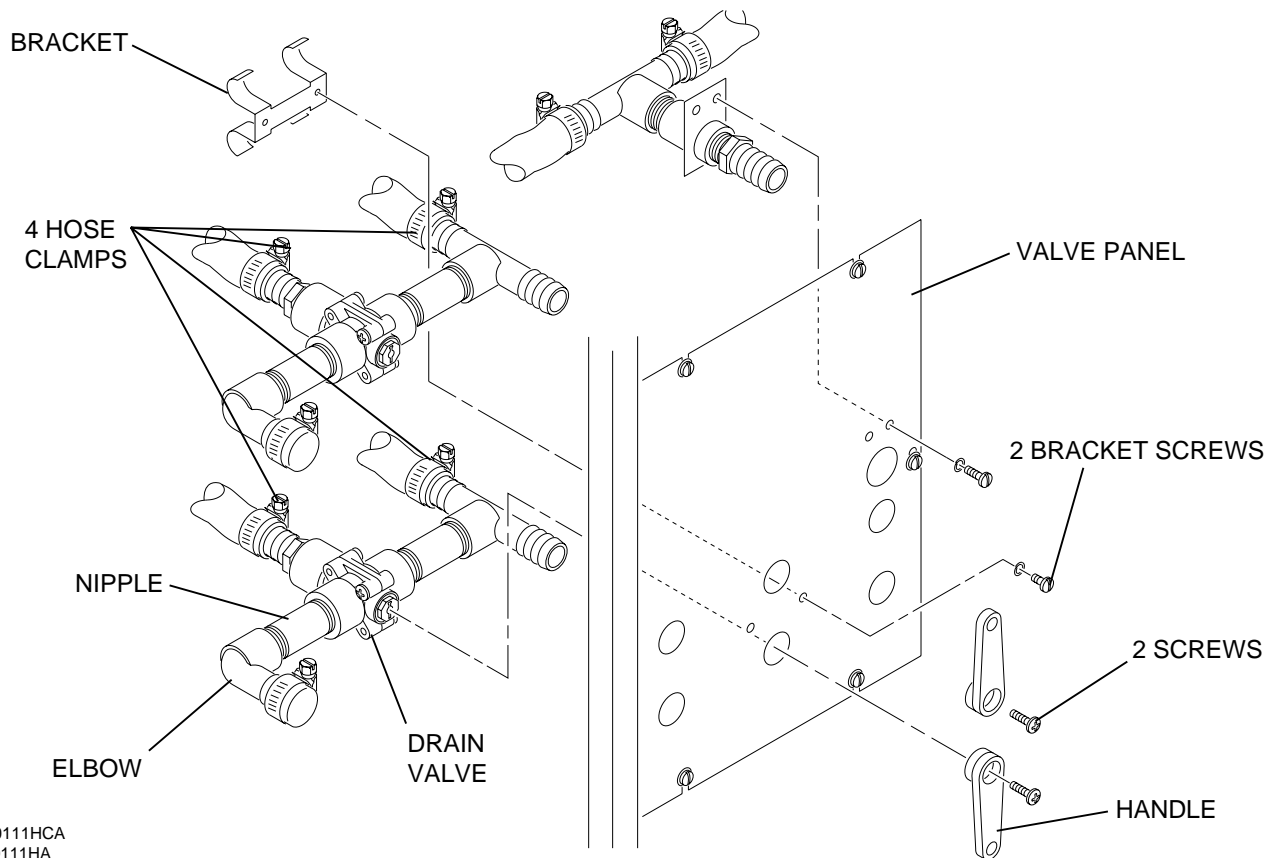
- [5] Remove the
 - DEVELOPER EVAPORATION COVER
 - ENTRANCE DETECTOR
 - YOKE
 - DEVELOPER/FIXER CROSSOVER
 - DEVELOPER RACK
 - HEAT EXCHANGER COVER
- [6] Loosen the CLAMP on each of the 2 HOSES of the HEAT EXCHANGER. Remove the 2 HOSES.
- [7] Remove the 2 FITTINGS. Keep the O-RINGS and WASHERS.
- [8] Remove the HEAT EXCHANGER.
- [9] Install the new HEAT EXCHANGER.
- [10] Assemble the PROCESSOR and check that it operates correctly.

Removing the DRAIN VALVES for the Developer and Fixer



H108_0150DCB
H108_0150DC

- [1] De-energize the PROCESSOR.
- [2] Shut off the water to the PROCESSOR.
- [3] Remove:
 - NONDRIVE and DRIVE SIDE PANELS
 - MIDDLE ACCESS PANEL
- [4] Drain the TANKS for both the developer and fixer.
- [5] Remove the 2 HANDLES.
- [6] Remove the 2 CLAMPS and the 2 CAPS.
- [7] Remove the 5 SCREWS from the DRAIN PANEL.
- [8] Remove:
 - 2 DRAIN VALVE BRACKET SCREWS
 - 2 SCREWS above the WASH OVERFLOW AND DRAIN



H148_0111HCA
H148_0111HA

[9] Remove the VALVE PANEL.

[10] Loosen and remove the 3 HOSE CLAMPS on the DRAIN VALVE ASSEMBLY.

[11] Remove the DRAIN VALVE.



Important

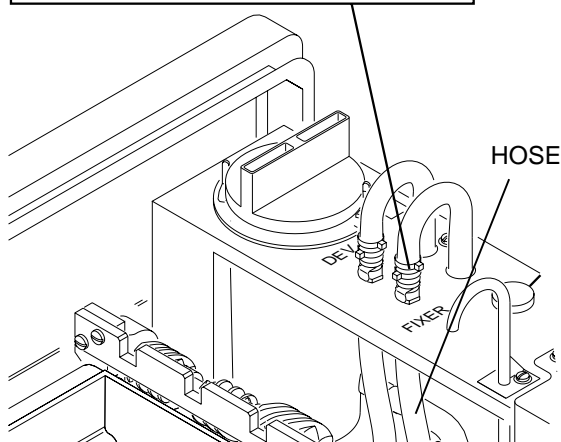
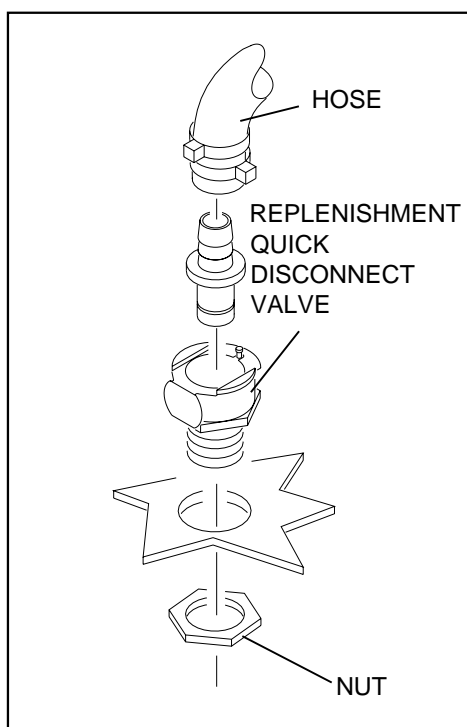
When you install the following replacements, use the SEALANT TL-3230. A different SEALANT might cause damage to the plastic parts. Check the instructions packed with the SEALANT.

[12] As necessary, repair or install replacement parts:

- 2 NIPPLES
- 2 ELBOWS
- TEE
- DRAIN VALVE

[13] Assemble the PROCESSOR and check that it operates correctly.

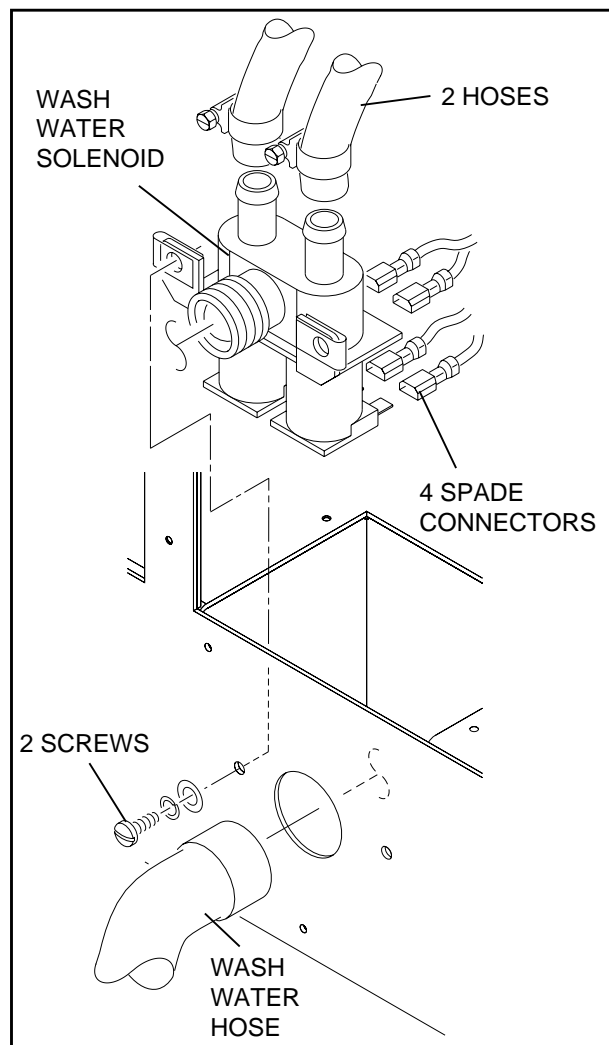
Removing the REPLENISHMENT QUICK DISCONNECT VALVES



H148_0125CCA
H148_0125CA

- [1] De-energize the PROCESSOR.
- [2] Remove:
 - TOP COVER
 - DRIVE SIDE PANEL
- [3] Place a CLAMP TL-2170 on the input and output HOSES of the REPLENISHMENT QUICK DISCONNECT VALVE.
- [4] Disconnect the REPLENISHMENT QUICK DISCONNECT VALVE.
- [5] Loosen the 2 HOSE CLAMPS and remove the 2 HOSES.
- [6] Remove the NUT.
- [7] Remove the REPLENISHMENT QUICK DISCONNECT VALVE.
- [8] Install the new REPLENISHMENT QUICK DISCONNECT VALVE.
- [9] Remove the CLAMPS TL-2170.
- [10] Assemble the PROCESSOR and check that it operates correctly.

Removing the WASH WATER SOLENOID L1



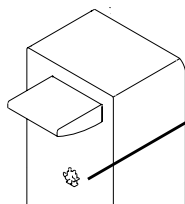
- [1] De-energize the PROCESSOR.
- [2] Remove the MIDDLE ACCESS PANEL.
- [3] Shut off the water to the PROCESSOR.



Caution

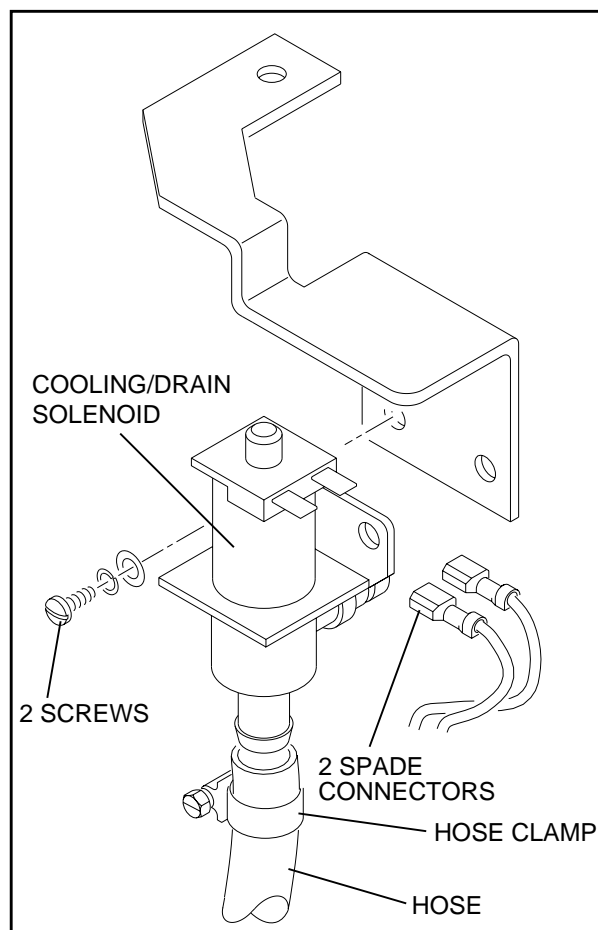
To release the pressure in the WASH WATER HOSE, disconnect it slowly.

- [4] Remove the WASH WATER HOSE.
- [5] Remove the 2 SCREWS.
- [6] Lift and remove the WASH WATER SOLENOID.
- [7] Disconnect the 4 SPADE CONNECTORS.
- [8] Loosen the 2 HOSE CLAMPS and remove the 2 HOSES.
- [9] Install the new WASH WATER SOLENOID.
- [10] Assemble the PROCESSOR and check that it operates correctly and that no leakage occurs.



H148_0099CCA
H148_0099CA

Removing the COOLING/DRAIN SOLENOID L2



H148_0098CCA
H148_0098CA

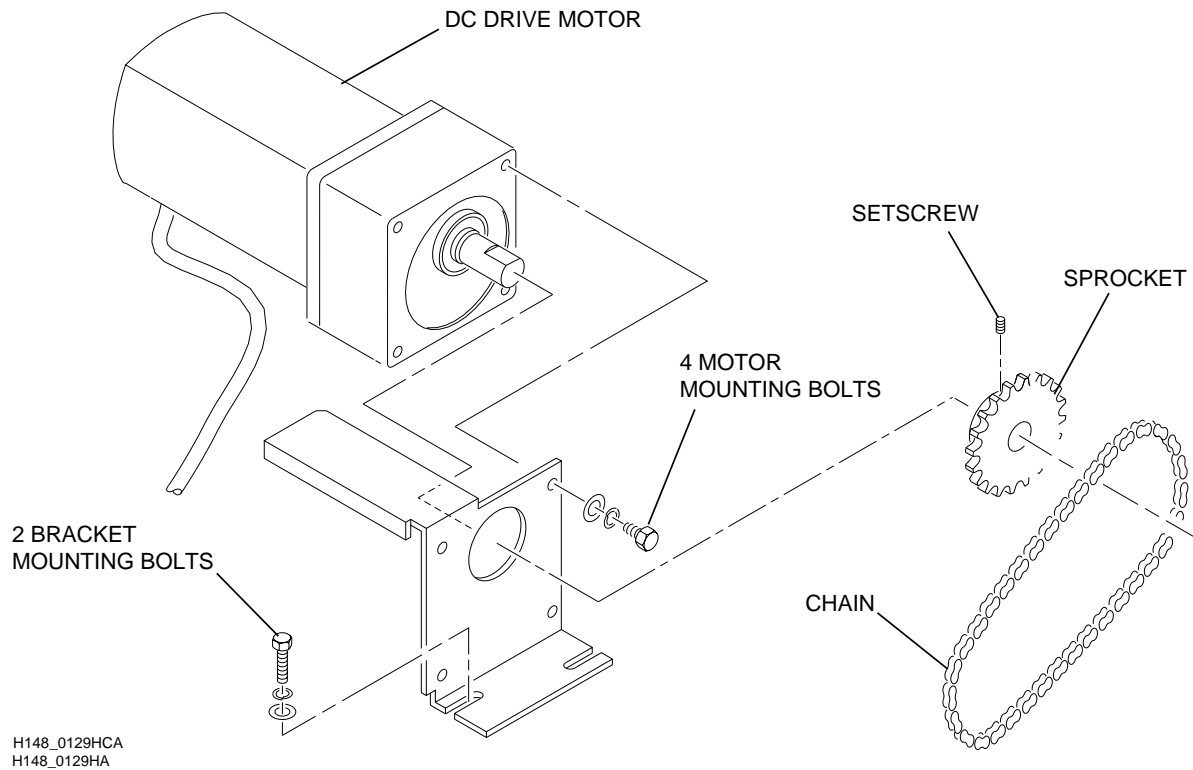
- [1] De-energize the PROCESSOR.
- [2] Remove the TOP COVER and the NONDRIVE SIDE PANEL.
- [3] Shut off the water to the PROCESSOR.
- [4] Disconnect the 2 SPADE CONNECTORS.



Caution

- Water might spill when you remove a HOSE.
 - To help you identify a HOSE, place a mark on it.
- [5] Loosen the HOSE CLAMP and remove the HOSE.
 - [6] Remove the 2 SCREWS.
 - [7] Remove the COOLING/DRAIN SOLENOID.
 - [8] Install the new COOLING/DRAIN SOLENOID.
 - [9] Assemble the PROCESSOR and check that it operates correctly.

Removing the TANK



[1] De-energize the PROCESSOR.

[2] Remove:

- TOP COVER
- NONDRIVE and DRIVE SIDE PANELS
- MIDDLE ACCESS PANEL

[3] Drain the TANKS for both the developer and the fixer.

[4] Remove all CROSSOVERS and RACKS.

[5] Remove the 6000 BOARD. See Section 6.



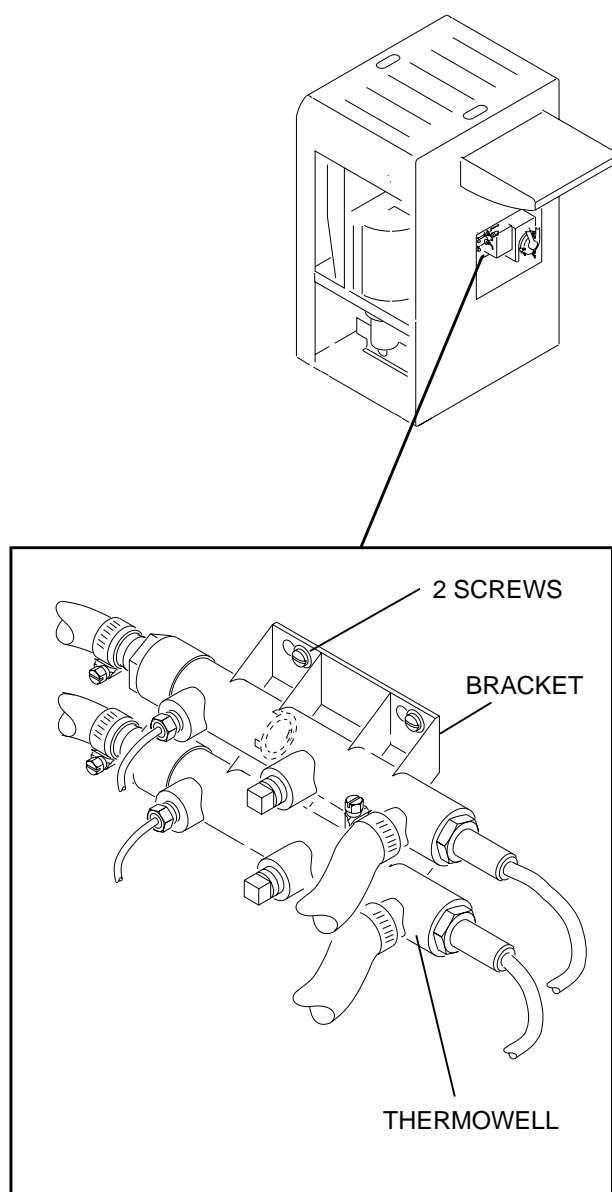
Important

Do not remove the DC DRIVE MOTOR and BRACKET. Do the next 2 steps so that you can move the DRIVE MOTOR and the BRACKET to allow access.

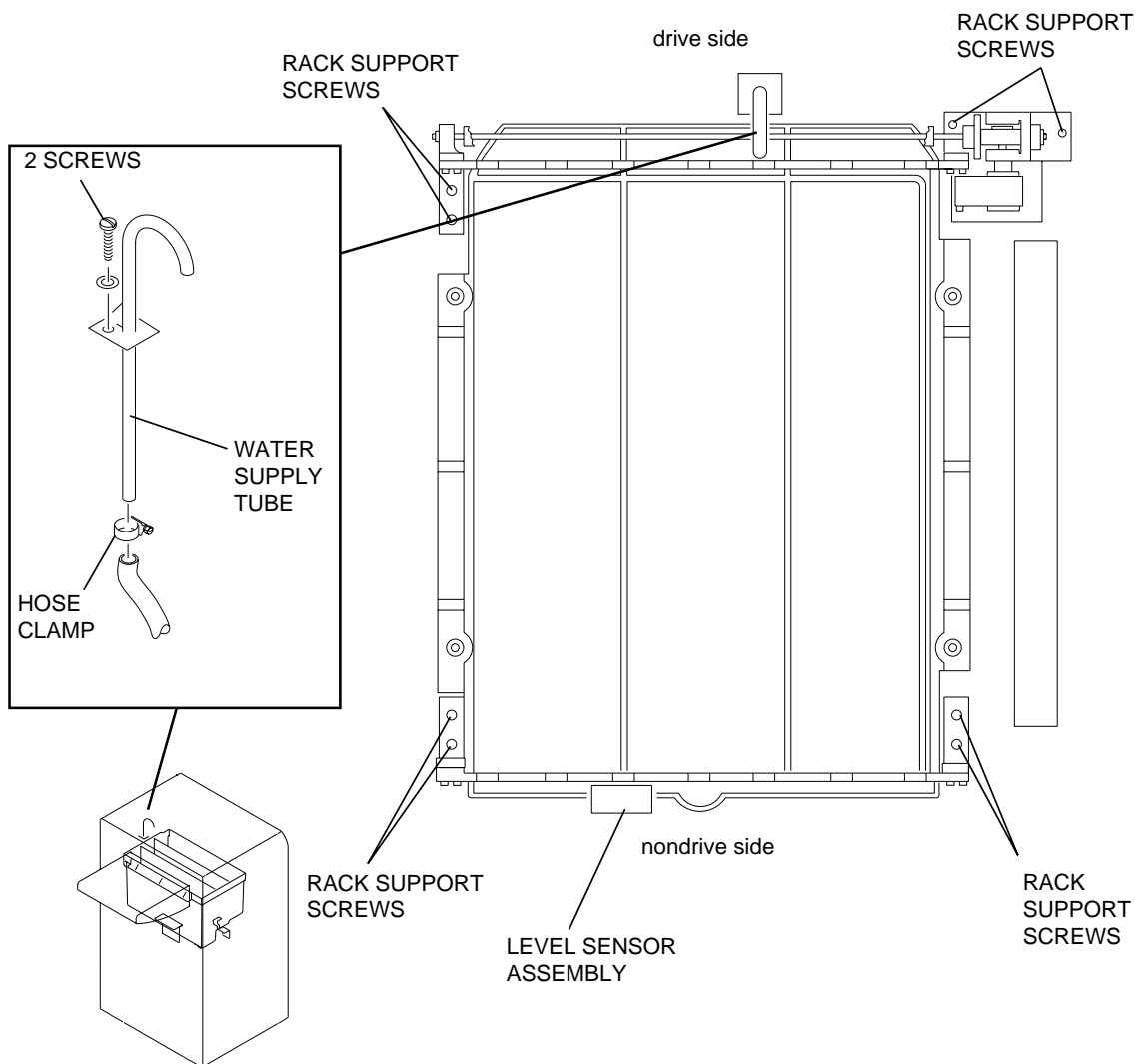
[6] Loosen the 2 BRACKET MOUNTING BOLTS of the DC DRIVE MOTOR. See the diagram below.

[7] Remove the CHAIN and the SPROCKET.

- [8] Remove the THERMOWELLS for both developer and fixer.
- [9] Advance to the next page.



H148_0121CCB
H148_0121CA



H148_0113DCA
H148_0113DA

- [10] Remove the WATER SUPPLY TUBE.
- [11] Remove the 4 RACK SUPPORT SCREWS from both the nondrive side and the drive side.
- [12] Remove the RACK SUPPORTS from both the nondrive side and the drive side.

Important

- After you drain the TANKS, some solution remains in the plumbing system. Clean any spills.
 - When you do Steps 13 - 15, place a mark on each HOSE to identify it before you remove it.
- [13] Remove DRAIN TUBING from the WASH TANK.
 - [14] Remove all TUBING connected to the sides and bottoms of the 3 TANKS for developer, fixer, and wash.
 - [15] Remove the 4 HEX SCREWS that fasten the TANK to the PROCESSOR.
 - [16] Remove the LEVEL SENSOR.
 - [17] Lift the TANK ASSEMBLY from the PROCESSOR.
 - [18] Install the new TANK ASSEMBLY.
 - [19] Assemble the PROCESSOR and check that it operates correctly.