



**MODEL: CURTIS - JOHN DEERE 3 FAMILY  
OPTIONAL AUXILIARY HEATER INSTALLATION (P/N 9PH20S57)**

**STEP 1 HEATER INSTALLATION:**

- 1.1 Install the heater to the heater bracket using the 1/4" screws located on the side of the heater.
- 1.2 The location of the heater bracket is on the right unitized side frame.
- 1.3 Remove plugs (if equipped) from heater inlet and outlet tubes.
- 1.4 Remove plastic plugs from right front leg of cab and install plastic bushings from the electrical kit.

**STEP 2 HEATER PLUMBING:**

**\*\*\* CAUTION \*\*\* To avoid injury caused by hot engine coolant, make sure the engine is completely cooled down before beginning installation of auxiliary heater.**

- 2.1 Remove the right side engine cover. Per fig. 2.1, temporarily remove the fuel filter and bracket assembly to get access to the thermostat housing. Using vehicle manufacturer's recommended procedure, drain the cooling system.
- 2.2 Remove the large hex head plug from underneath the thermostat and the sending unit from the thermostat housing.
- 2.3 For the supply line to the heater, remove the sending unit. Install the sending unit in the hex bushing of the sending unit adaptor. Install the hex bushing into the end of the adaptor with a large plastic washer from the hardware kit.
- 2.4 Install a small plastic washer onto the end of the sending unit adaptor and install into the engine block where the sending unit was removed. If the sending unit adaptor does not tighten so that the port on the side for the 3/8" NPT nipple points up as shown in figure 2.4, then remove it and install another small plastic washer and try again. Using Teflon tape (not provided), install a 3/8" NPT nipple to the side of the adaptor. Reconnect sending unit wire.
- 2.5 For the return line to the heater, using Teflon tape, install a second 3/8" NPT nipple below the thermostat, in place of the hex head plug removed in step 2.2. See fig. 2.5



FIGURE 2.1



FIGURE 2.4



FIGURE 2.5



**STEP 2 HEATER PLUMBING, CONTINUED (Ref. fig. at bottom of page):**

- 2.6 For the supply line, feed one end of the supplied heater hose through one of the bushings installed in Step 1.4. Using a hose clamp, attach the hose to one of the heater ports. Route the hose through the engine compartment to the 3/8 NPT nipple in the sending unit adaptor. Trim to length and attach with another hose clamp.
- 2.7 For the return line, feed the remaining heater hose through the other bushing installed in Step 1.4. Using a hose clamp, attach it to the remaining heater port. Route the hose through the engine compartment to the 3/8 NPT nipple installed in step 2.5. Trim to length and attach with another hose clamp.
- 2.8 Splice into the heater supply line and install the in-line shut-off valve. Secure hoses with the hose clamps.  
**NOTE:** The in-line shut-off valve quickly converts the heater into a summer time blower by preventing hot water from flowing to the heater core.
- 2.9 Check hose routing and secure with large wire ties making sure that they do not rub against any moving parts, do not interfere with right side engine cover, do not kink when cover is installed, or rub against right front tire when turned. Trim hoses to length at heater and install hoses to the heater with the remaining hose clamps.
- 2.10 Reattach the fuel filter and bracket. Refill the cooling system. Start the tractor and inspect system for leaks.





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**STEP 3 ELECTRICAL CONNECTIONS:**

- 3.1 Remove the rectangular plug from the cowl. Put the large connector from the wiring harness through the hole. Matching colors, connect the two wires from the harness to the terminals on the switched power harness. Plug the switch into the connector.
- 3.2 Snap the switch into the hole with the light bulb toward the center of the vehicle and snap the red switch cover into place.
- 3.3 Run the wiring down the right side frame rail following the power harness wire. Secure the wiring to the power harness wire with small wire ties provided.
- 3.4 Connect wire harness to heater, connect the red wire from the heater to the yellow wire on the harness and match the remaining wire colors.

**STEP 4 FINISHING TOUCHES:**

- 4.1 Check heater hoses and make sure they get warm. If not, remove the heater from its mount and let hang from hoses as low as possible. Temporarily put a clamp on the upper radiator hose to force coolant through the heater. As soon as heater gets warm, remove the clamp.

**HEATER COMPONENT SERVICE PARTS**

| <b>QTY.</b> | <b>DESCRIPTION</b>          | <b>P/N</b>    |
|-------------|-----------------------------|---------------|
| 1           | 20,000 BTU HEATER           | 8SV-9PH20WG   |
| 1           | HEATER MANUAL               | IM-9PH20S57   |
| 20'         | HEATER HOSE                 | 9SV-HRH61-20  |
| 2           | IN-LINE SHUT OFF VALVE      | 9SV-UHTRILV   |
| 6           | 1" HOSE CLAMPS              | 9SV-HR00601.0 |
| 2           | 3/8" NPT NIPPLE             | 9SV-HR0045    |
| 2           | SNAP BUSHING, .75" X 1.093" | 9SV-9DPSB     |
| 1           | WIRE HARNESS, HEATER        | 9SV-KX9HTRWH1 |
| 1           | HEATER SWITCH               | 9SV-OHC6      |
| 1           | HEATER SWITCH COVER         | 9SV-9PCD1-B   |
| 1           | SENDING UNIT ADAPTER        | 9SV-HR0051MF  |