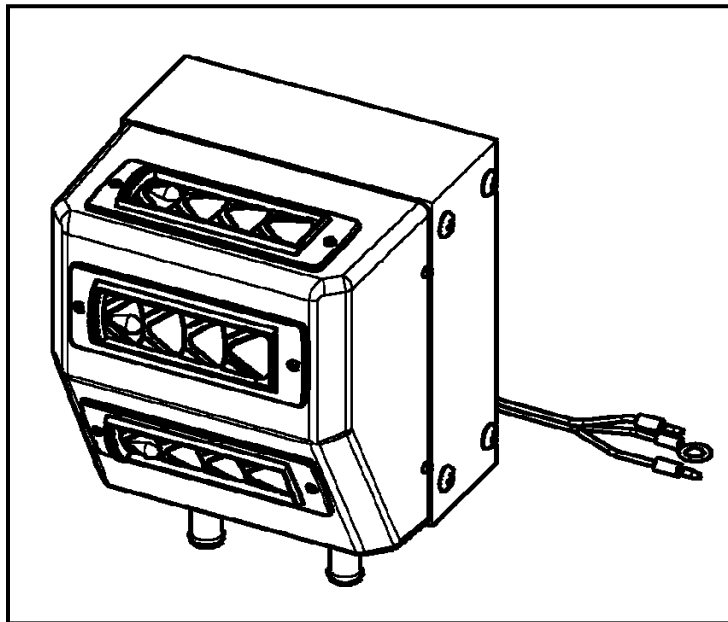




**Kubota L3301, L3901
HEATER KIT
P/N 9PH20S60
(FITS L3301, L3901)**

The contents of this envelope are the property of the owner.
Be sure to leave with the owner when installation is complete.

APPROXIMATE INSTALLATION TIME: 3 HOURS



HEATER SERVICE PARTS

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>P/N</u>
1	20,000 BTU HEATER	8SV-9PH20WG
1	HEATER MANUAL	IM-9PH20S60
20'	HEATER HOSE	9SV-HRH61-20
6	1" HOSE CLAMPS	9SV-9HR00601.0
2	2" HOSE CLAMPS	9SV-9HR00602.0
2	3/8" NPT NIPPLE	9SV-9HR0045
1	SENDING UNIT ADAPTOR	9SV-HR0051MF
2	STREET ELBOWS	9SV-HR0049
1	1-1/2" TEE FITTING	9SV-HR0043
2	IN-LINE SHUT OFF VALVE	9SV-UHTRILV
2	SNAP BUSHINGS	9SV-9DPSB
1	HEATER SWITCH WITH KNOB	9SV-9HR0046



STEP 1 HEATER INSTALLATION:

- 1.1 The location for the heater unit is on the left side frame. Install the 20,000 BTU MEGA BURNER heater and the ring terminal on the black ground wire, to the heater bracket, using three of the 1/4" bolts on the side of the heater.
- 1.2 Remove plugs (if equipped) from heater inlet and outlet tubes.
- 1.3 Remove plugs in bottom left side of cowl and install plastic bushings from the heater kit by pushing into the holes from the outside of the cab.

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 Temporarily remove the left side engine cover.
 - 2.2 Drain the cooling system. 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. 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 elbow points to 10 o'clock as shown in Figure 2.2, then remove it and install another small plastic washer and try again.
 - 2.3 Per figure 2.3, install the 3/8" NPT street elbow and hose nipple into the side port of the adaptor with Teflon tape (not provided).
 - 2.4 For the return line from the heater, cut the lower radiator hose in the location shown and install the enclosed T fitting with large hose clamps provided. See figure 2.4
 - 2.5 Run the supplied heater hose from the T fitting along the side of the engine compartment and through one of the holes in the cowl, cut to length and attach to heater and T fitting with small hose clamps. Reference figure 2.6.
- CAUTION:** Make sure hose does not rub against the exhaust.
- 2.6 Per figure 2.6, use the remaining hose to run from the sending unit adaptor to the heater as shown and attach with small hose clamps. Secure hoses away from sharp or hot objects with large wire ties provided.

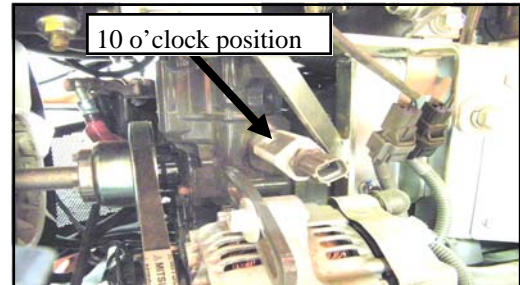


FIG. 2.2

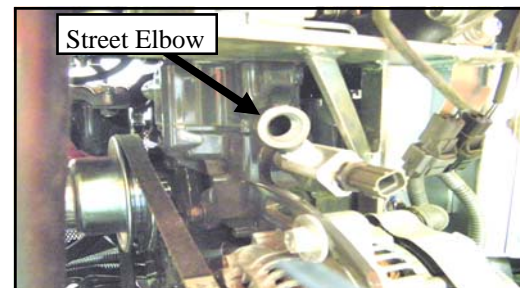


FIG. 2.3

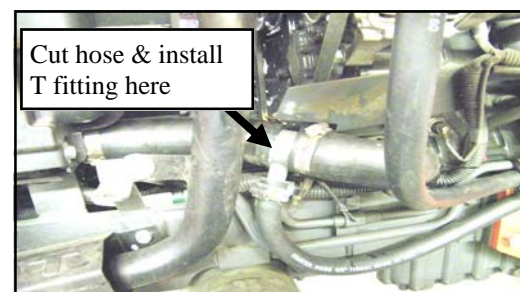


FIG. 2.4

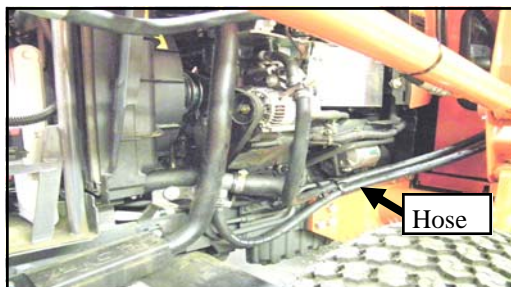


FIG. 2.6



STEP 2 HEATER PLUMBING (Continued):

2.7 Splice into the heater supply line and install the in-line shut-off valve with small hose clamps. The valve can be installed anywhere accessible in the heater supply line. It does not have to be installed where shown in figure 2.7.

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.

2.8 Per figure 2.8, install spiral wrap provided to protect the heater hose from the side engine cover and reinstall cover.

2.9 Refill the cooling system. Start the tractor and inspect system for leaks. Also check that both heater hoses warm up. If not, remove the heater from its mount and let hang from hoses as low as possible. If the heater and hoses still do not get warm, temporarily put a clamp on the upper radiator hose to force coolant through the heater. **Warning: To avoid engine damage, remove the clamp as soon as heater gets warm.** Reattach heater to the bracket.

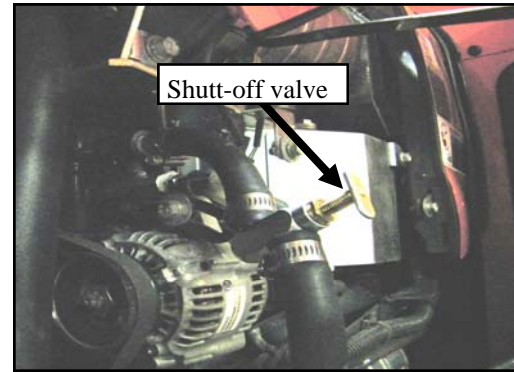


FIG. 2.7

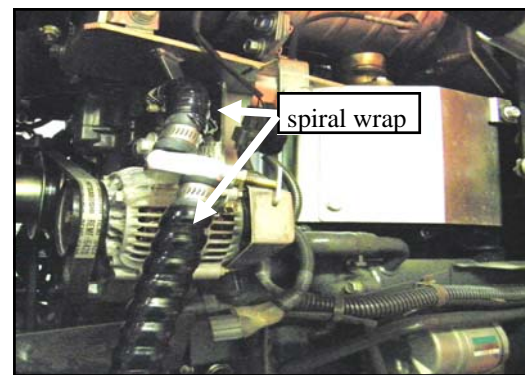


FIG. 2.8

STEP 3 ELECTRICAL CONNECTIONS:

3.1 At the installer's discretion, mount the two speed rotary heater switch in desired location.

3.2 Using the bullet connectors on the supplied 18 gauge wires, connect the wires to the orange and red wires on the heater. Route the wires to the switch location and cut to length. Connect the lead from the orange motor wire to the "H" terminal of the switch and the lead from the red motor wire to the "L" terminal using female push-on connectors.

3.3 Install a female push-on connector to one end of the remaining 18 gauge red wire. Connect to the "B" terminal on the back of the rotary switch. Route the other end of this wire to a positive feed (through the ignition or fuse box is recommended). Attach to the in-line fuse with a butt connector. Attach the other end of the in-line fuse to the power source.

WARNING * LEAVE the "C" switch terminal OPEN. This is NOT a ground connection.**

3.4 Install loom on wires and secure with wire ties and P clamps provided.

