



**MASSEY FERGUSON GC1700, GC1723, GC1725
HEATER KIT (p/n: 9PH20S54)**

HEATER INSTALLATION:

- A. Install the heater to the heater bracket using the 1/4" screws located on the side of the heater.
- B. The location of the heater bracket is on the left side frame.
- C. Remove plugs (if equipped) from heater inlet and outlet tubes.

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.**

- A. Drain the cooling system. Remove OEM clamp from the tube as shown in Fig. A-1. Remove the radiator cap and let coolant drain thoroughly. Remove the strap from the air filter housing and tuck it and the intake hose out of the way. Loosen the hose clamp from the bypass hose. Remove the bypass hose from the thermostat housing. Lastly, remove the sending unit (See Figures A-2 and A-3).
- B. For the return line from the heater, cut the lower radiator hose in the location shown in Fig. B-1 and install the enclosed T-fitting with large hose clamps provided. Run the supplied heater hose from the T-fitting forward and loop back beside the left side engine cover (See Figure B-2). **CAUTION: Make sure hose does not interfere or rub against the throttle linkage or any moving parts.** Cut Trim-Lok to length and apply to edges as shown in Fig. B-1. Remove the plastic plugs from the left side of the cowl and replace with the plastic bushings from the heater kit. NOTE: There are 2 different sets of bushings, thin ones for the 1700 steel cowl and thicker ones for the 1723 and 1725 plastic radiator shroud. Route the hose through one of the bushings and up to the heater. Cut the hose and connect the hose to one of the two heater ports (See Figure B-3).
- C. For the supply line to the heater, install the sending unit in the end of the sending unit adaptor.

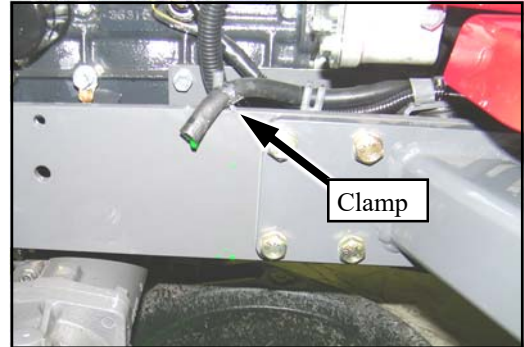


Fig. A-1 View From Left Side of Vehicle Under Hood

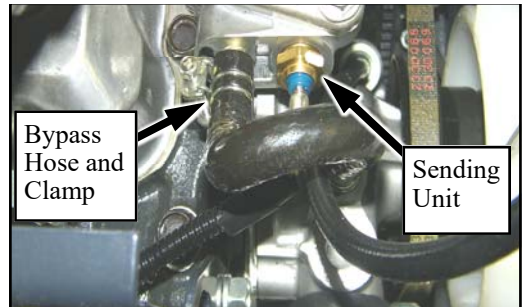


Fig. A-2 By-Pass Hose and Sending Unit



Fig. A-3 Components Removed

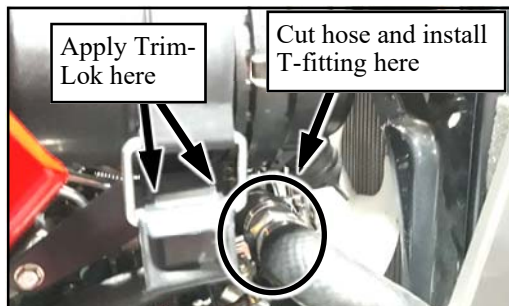


Fig. B-1 Return Line



Fig. B-2 Heater Return Line



Fig. B-3 Port Connection



Fig. D-1 Adapter Installation

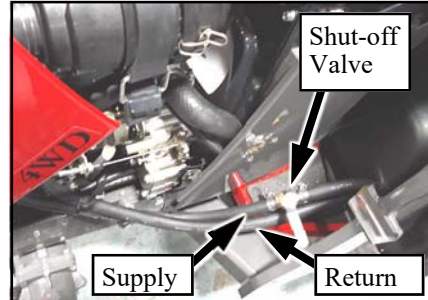


Fig. E-1 Supply & Return Routing

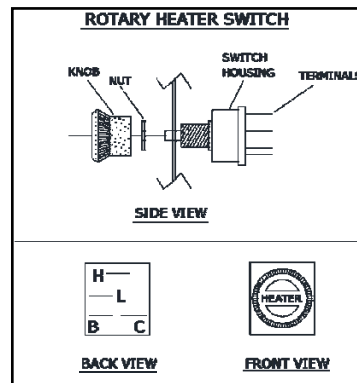
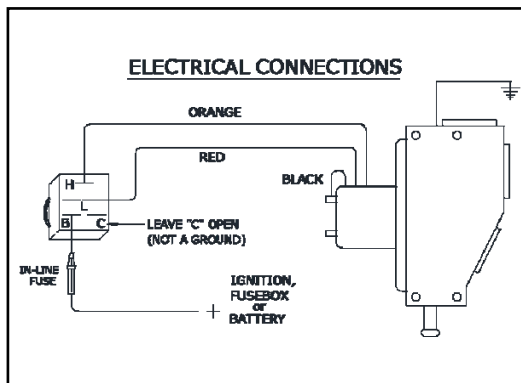
- D. Install the adaptor to the thermostat housing with one or two nylon washers so that the side port of the adaptor points up as shown. Using Teflon tape, install the 3/8" NPT nipple to the side of the adaptor as shown in Fig. D-1. Reconnect sending unit wire. **NOTE:** If a single washer will not position the side nipple correctly, remove the adaptor and install an additional washer. Reconnect the bypass hose routing it under the adaptor as shown.
- E. Attach the supply line to the nipple on the sending unit adapter and route the heater hose forward and then down in front of the air filter, as shown in Fig. D-1, making sure it is kept a safe distance from the muffler. Continue routing along the path of the return hose as shown in figure E-1. Connect the hose to the heater in the same manner as the return hose. Splice into the heater supply line and install the in-line shut-off valve. Secure hoses with hose clamps and wire ties. **NOTE:** The in-line shut-off valve quickly converts the heater into a summer time fan by preventing hot water from flowing to the heater core.
- F. Reconnect the bypass hose, the drain hose, and the air filter system. Refill the cooling system. Start the tractor and inspect system for leaks.

ELECTRICAL CONNECTIONS:

- A. At the installer's discretion, mount the two-speed rotary heater switch in desired location.
- B. Using the bullet connectors on the supplied 16 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.
- B. Install a female push-on connector to one end of the remaining 16 gauge red wire. Connect the female push-on connector 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.

NOTE: If so desired, the switch may be installed on the heater box itself. To do so, remove the plastic front face of the heater box by removing the 4 screws that hold the two halves together and **carefully** separate the front half from the back. Once this is done, **carefully** drill a 7/16" hole 3.5" down from the top of the box and 2.375" in from the **front** side of the heater (opposite from the now open end of the plastic half). Once this is completed, mount the switch into the hole, as described previously and route the red and orange wires, from inside of the box, directly to the switch. Cut each wire to length so that they will not interfere with the operation of the vents and attach to the switch using the female push-on connectors provided. Connect a female push-on connector to the "B" terminal on the back of the rotary switch. Route the other end of this wire through the rubber grommet and to a positive feed. Attach to the in-line fuse with a butt connector. Attach the other end of the in-line fuse to the power source. If needed, extend the ground wire, using the remaining wire and butt connectors, so that the ring terminal reaches the ground terminal of the battery **without** interfering with normal operation of the hood of the vehicle. Loom and wire tie as desired.

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



FINISHING TOUCHES:

- A. 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 COMPONENTS

QTY.	DESCRIPTION	P/N
1	20,000 BTU HEATER	9PH20
1	HEATER MANUAL	IM-9PH20S54
1	ROTARY HEATER SWITCH	9HR0046
1	HEATER SWITCH KNOB	9HR0046-A
1	HEATER WIRE KIT	9PWKH
1	12' HEATER HOSE	9HR0061
6	1" HOSE CLAMPS	9HR0060-1.0
2	1-1/2" HOSE CLAMPS	9HR0060-1.5
1	1-1/8" X 1" X 5/8" TEE	9HR-00005
1	SENDING UNIT ADAPTOR	9HR0051MF1
1	3/8" NPT NIPPLE	9HR0045
3	16 MM NYLON WASHER	71-39-0025
12	TRIM-LOK	9PR01
1	IN-LINE SHUT-OFF VALVE	9HR00025
2	THICK PANEL BUSHING	9HR04