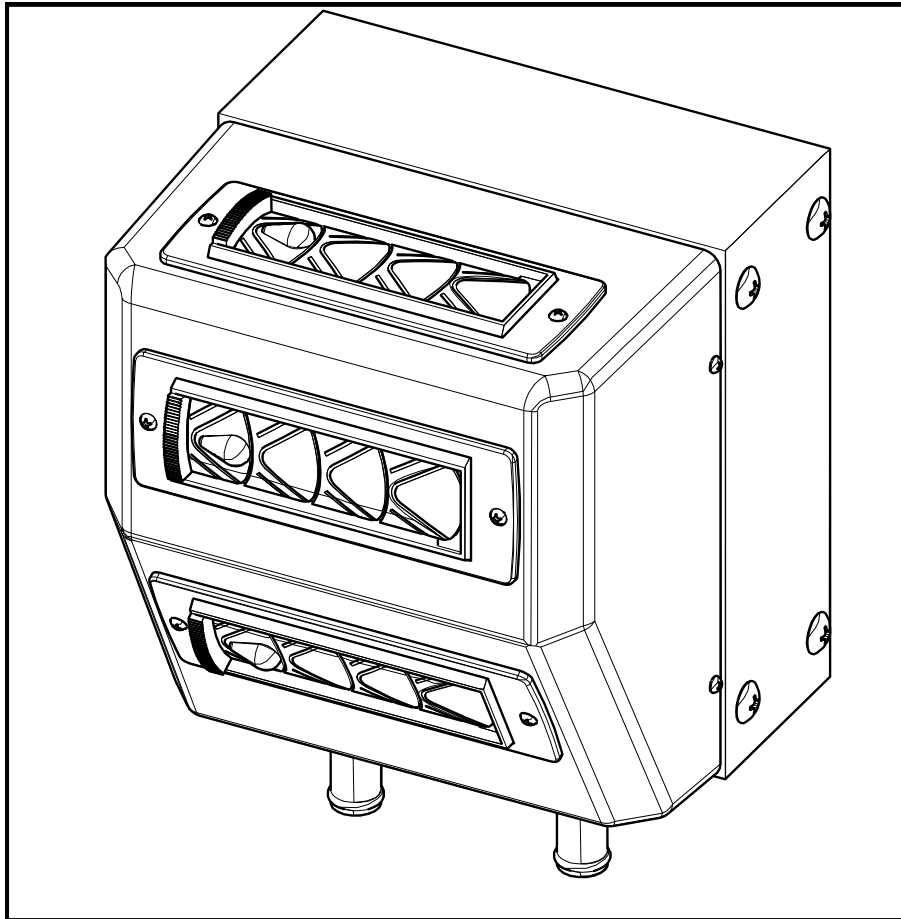




John Deere 1 Family and 2025R Heater

Heater (p/n: 9PH20S71)
(for 1JD1FEN and 1JD2025REN Cab)
fits tractor models: 1023E, 1025R, 2025R



Approximate Installation Time *

Experienced Dealer Technician – 2 Hours

Average Dealer Technician – 3 Hours

Do-It-Yourself – 4 Hours

The contents of this envelope are the property of the owner. Leave with the owner when installation is complete.

Rev. B, 04/06/2022

p/n: IM-9PH20S71

HEATER INSTALLATION

STEP 1: (HEATER PLUMBING)

These instructions assume cab installation is already complete. If installing heater at the same time as cab, follow cab instructions.

CAUTION: Only work on a cool engine! To avoid injury caused by hot engine coolant, make sure the engine is completely cooled down before beginning installation of auxiliary heater.

- 1.1 Drain the coolant into a clean container so that it may be reused.
- 1.2 See Figure 1.2. For the supply line for the heater, remove the plug and sealing washer from the left side of the thermostat housing. Install the plug and sealing washer in the end of the sending unit adaptor. Install a small nylon washer onto the other end of the sending unit adaptor and install the hex bushing. Install the assembly into the engine block where the plug and sealing washer were removed. If the sending unit adaptor does not tighten so that the port on the side for the 3/8" NPT nipple orients as shown, then remove it and install another nylon washer and try again. Install the 3/8" NPT nipple into the side port of the adaptor, using Teflon tape (not provided).
- 1.3 For the return line from the heater, cut the lower radiator hose in the location shown. See Figure 1.3. Install the enclosed T-fitting with large hose clamps provided. NOTE: for best results, attach the upper side first.
- 1.4 Cut the supplied heater hose approximately in half. Connect the hoses to the fittings installed in steps 1.2 and 1.3 with small hose clamps. Route the supply hose across the top of the engine and behind the large bracket on the right side, and secure the hose to the bracket with a large wire tie provided. See Figure 1.4b.

Tractor Model 1023E: Route the return hose to the right of the air filter, above the large engine bracket, and secure the hose to the bracket with a wire tie. See Figure 1.4a.

Tractor Model 1025R and 2025R: Route the return hose up around the air filter, under the air intake tube, behind the bracket for the intake and down the right side of the engine. Secure to the rod that runs along the top of the engine with a wire tie. See Figure 1.4b.

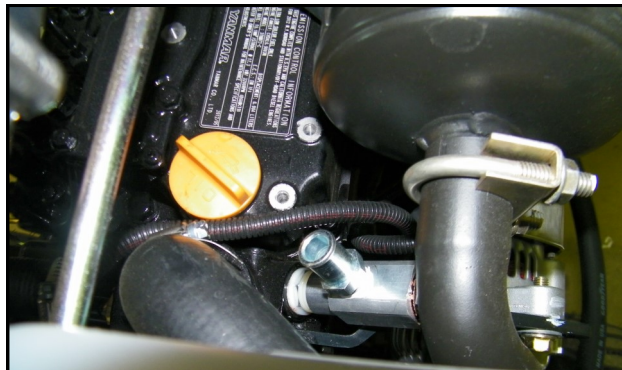


Fig. 1.2 (Remove Plug from Engine)

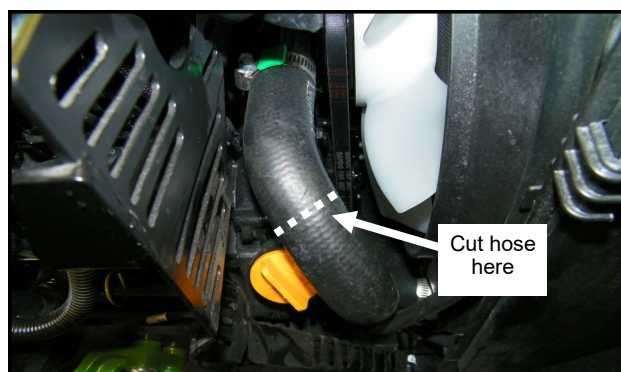


Fig. 1.3 (Cut Lower Radiator Hose)

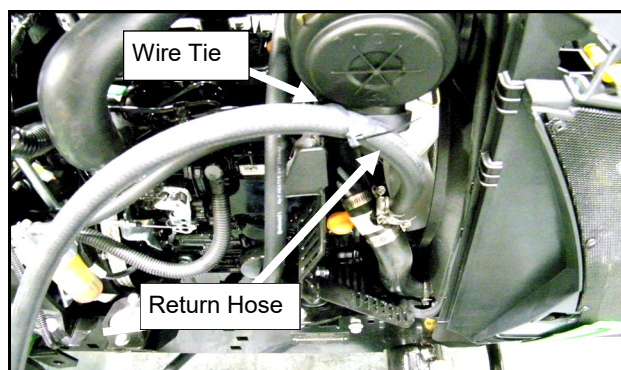


Fig. 1.4a (Supply Hose, 1023E)

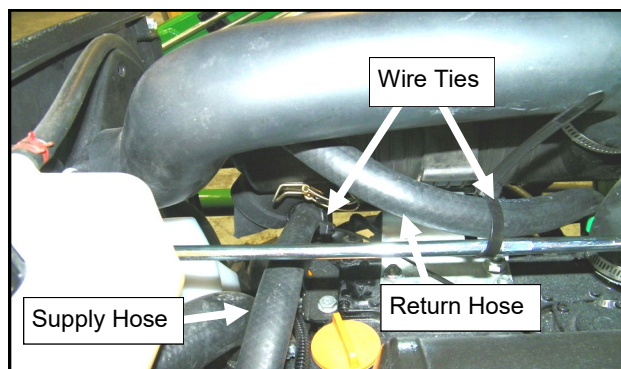


Fig. 1.4b (Route Hoses, 1025R, 2025R)

HEATER INSTALLATION

STEP 1: (HEATER PLUMBING)

1.5 Per figure 1.5, run the hoses down the right side and toward the rear of the engine. Check hose routing making sure it is not kinked or rubbing against any sharp edges. Also make sure the hoses will not interfere with installing the engine side covers. Secure hoses as necessary with large wire ties provided.

1.6 Splice into the heater supply line and install the in-line shut-off valve per figure 1.6.

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.

1.7 Make sure no wires or hoses are pinched or interfere with any moving parts, pedals on the tractor, or contact hot engine components. Secure with wire ties provided. Install the side shrouds back onto the tractor.

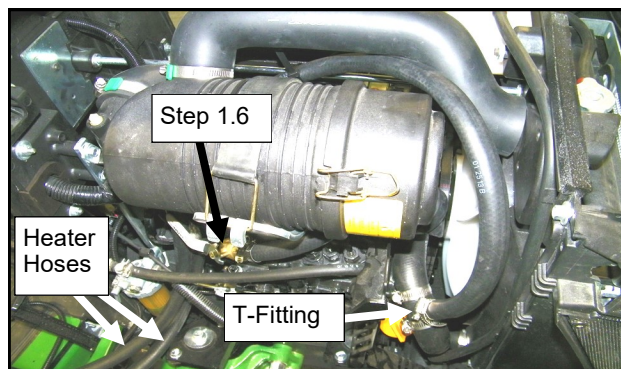


Fig. 1.5 (Route Hoses)

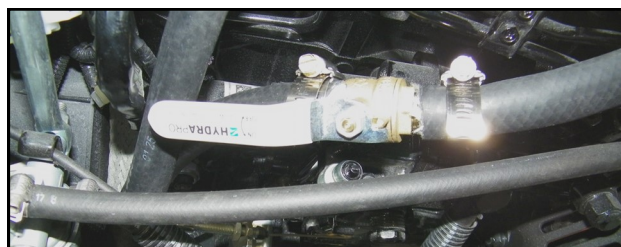


Fig. 1.6 (Shut-off Valve)

STEP 2: (HEATER)

2.1 Pre-assemble the heater bracket onto the heater using the screws already installed on the side of the heater. See Figure 2.1. Tighten hardware.

Tools needed

#2 Phillips Screw driver.

2.2 Remove bolts from location shown in figure 2.2 and attach the heater bracket to the right A-Pillar with the bolts.

Tools required

1/2" wrench or socket

2.3 From outside the cab, remove both dome plugs and install both 3/4" snap bushings into the large holes in the right side of the cowl. Feed the 5/8" diameter hoses, installed in step 1, through the bushings to the inside of the cab.

2.4 Inside the cab, cut the hoses to length and connect them to the nipples on the heater with hose clamps. Make sure the hoses follow a smooth path between the engine and heater and that no hoses are kinked or will interfere with pedals or hoses on the tractor.

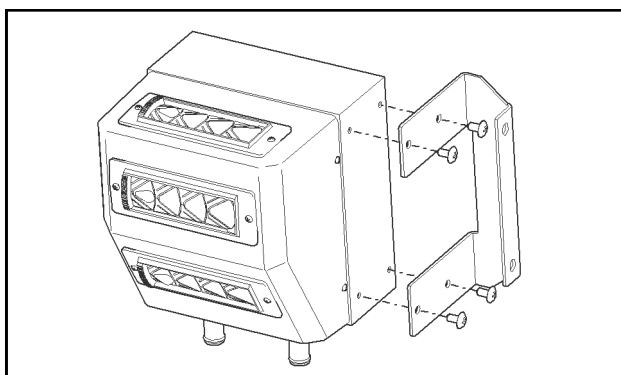


Fig. 2.1 (Pre-Assemble Heater to Bracket)

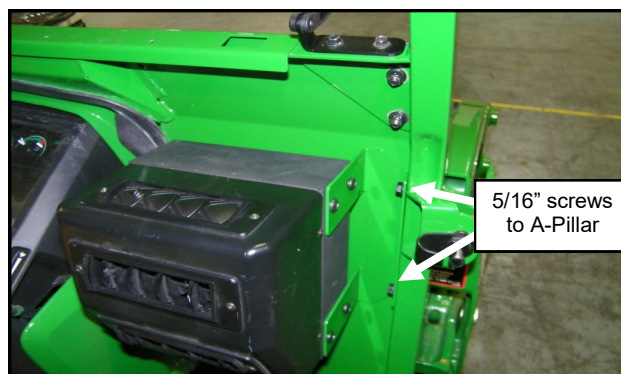


Fig. 2.2 (Install Heater)

HEATER INSTALLATION

STEP 3: (WIRING AND FINAL TOUCHES)

- 3.1 See fig. 3.1. Push the switch connector up through the rectangular hole in the cowl, connect to the switch and snap in the heater switch. The “off” position for this switch is in the middle, with low speed one way and high speed the other way. The switch may be installed in either direction, and can be removed and rotated 180° later if desired.
- 3.2 Connect the heater bullet connectors to the cab wiring harness. Cover the exposed wires with 1/2” split loom provided.
- 3.3 Refill the cooling system. Start the tractor and inspect coolant system for leaks.
- 3.4 With the tractor running, check the heater hoses and make sure they get warm. If not, remove the heater from its mount and let hang from the 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. Once complete, let the engine cool, check the coolant level, and top off coolant if required.

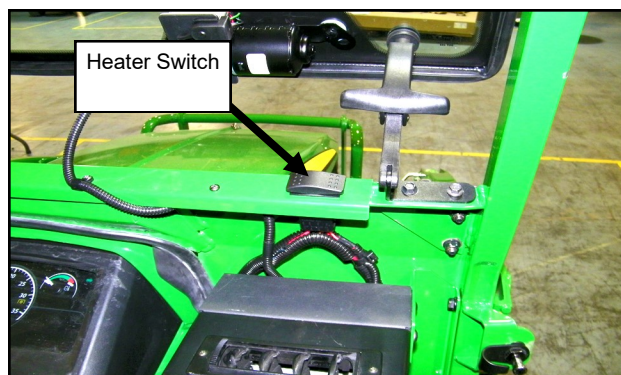


Fig. 3.1 (Install Switch)

ADDITIONAL SERVICE PARTS

[illegible]