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INSTALLATION BEST PRACTICES

for HOTflow Heaters



Return Port Select a return port high on Hoses & Ports the engine. __________ Select a return port toward the rear of the engine. \checkmark Select proper port fittings: Select a return port away from the remote thermostat. 1000 – 2500 W 3/8 inch NPT СКМ 3000 – 6000 W 3/4 inch NPT CSM If an optional remote thermostat is installed. Select proper hose inner diameter sizes: \mathbf{Z} Select a return port away from the supply port. 1000 – 2500 W СКМ 3000 – 6000 W 1 inch (\circ) \bigcirc 0 0 Heater Mounting \sim \square Mount the heater in the proper orientation. \mathbf{n} Supply Port Mount the heater to a vibration-isolated surface. 0 \checkmark Select a supply port low on the engine. Mount the heater directly below (\bigcirc) the return port. \checkmark Select a supply port toward the front of the engine. Mount the heater at least 6 inches (15 cm) below the lowest point of \bigcirc For V-type engines, it is acceptable to select a the water jacket. supply port on the side of the engine opposite the heater as long as the supply hose is routed properly. Θ \checkmark Select a supply port away from the return port. \bigcirc Θ © HOTSTART Hotstart Manufacturing, Inc. is the owner of all trademarks and copyrightable material contained For additional assistance, view the Hotstart Engine Heater Installation and herein; all rights are reserved. Troubleshooting videos at www.hotstart.com/resources-and-tools/support/videos.



INSTALLATION PROBLEMS & HAZARDS for HOTflow Heaters



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Return Port

Return port is installed toward the front of the engine.

A return port too close to the front of the engine will reduce heating effectiveness.

Return port is too close to the engine thermostat.

A return port installed too close to the engine thermostat can cause heated coolant to flow to the radiator, reducing heating effectiveness.

Return port is too close to the supply port. A return port too close to the supply port will cause heated coolant to only flow through a small portion of the engine.

Heater Mounting

- Heater is upside down. An incorrectly oriented heater will reduce coolant flow and heating effectiveness.
- Heater is mounted directly to the engine. Engine vibration will damage the heater.
- Heater is not mounted at least 6 inches (15 cm) below the water jacket.

A heater mounted too high will restrict coolant flow and reduce heating effectiveness.



For additional assistance, view the Hotstart Engine Heater Installation and Troubleshooting videos at **www.hotstart.com/resources-and-tools/support/videos**.