

Auxiliary Heater Assembly Installation Instructions

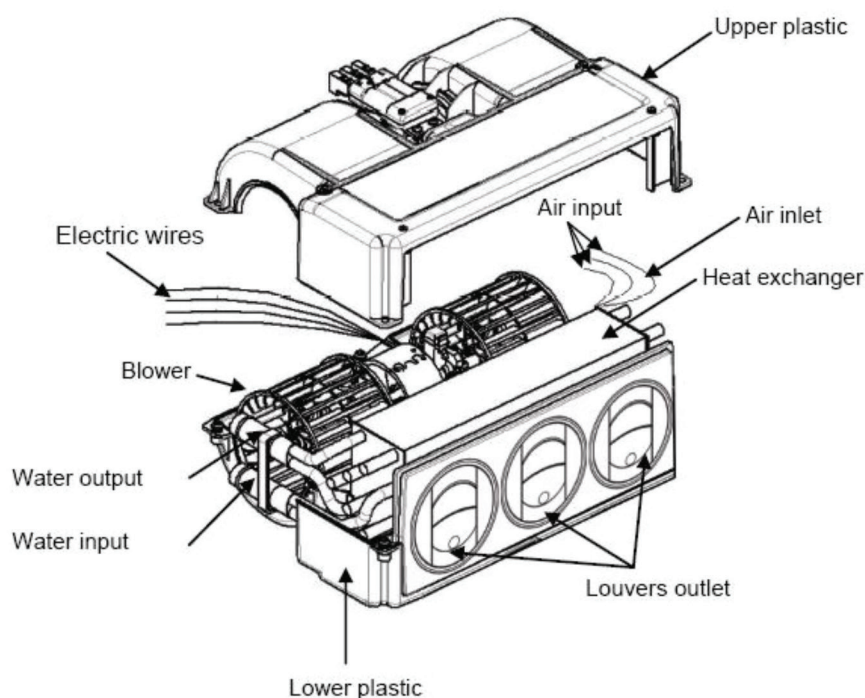
555-70610

177 CFM



Product Description

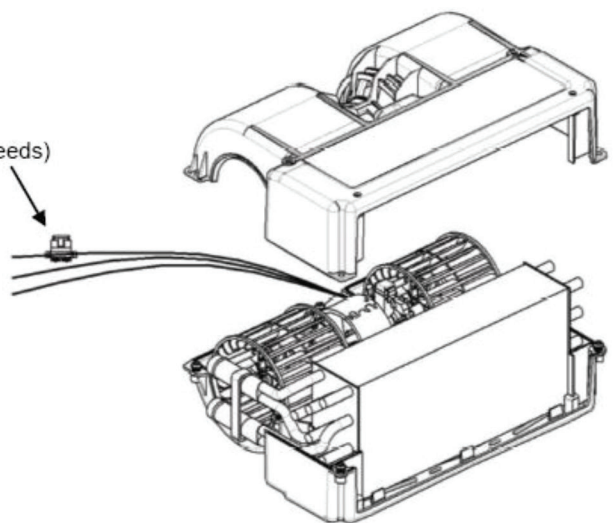
The JEGS 70610 heater consists of a 12V DC permanent magnet motor, coil, plastic centrifugal wheels and housing. The plastic parts are Polypropylene. The heater is a 2-speed unit, requiring connection of 3 wires and coolant supply input and output hoses. Each lateral side has an air inlet. The front has an air outlet with 3 louvers.



(4) 5,5x14 mm screws secure the assembly



Fuse
(Version: 2 speeds)



Operating Principal

Vehicle engine coolant runs through the coil. At the same time, the blower unit blows fresh air through the heat exchanger, elevating the air temperature, which then exits through the outlet louvers.

Operating Conditions:

- Heater must be located to receive fresh air.
- Operating temperature between -13°F and $+176^{\circ}\text{F}$.
- Cooling fluid must be antifreeze and anti-corrosive for copper and aluminum. Use a cooling liquid officially recognized by automotive manufacturers.

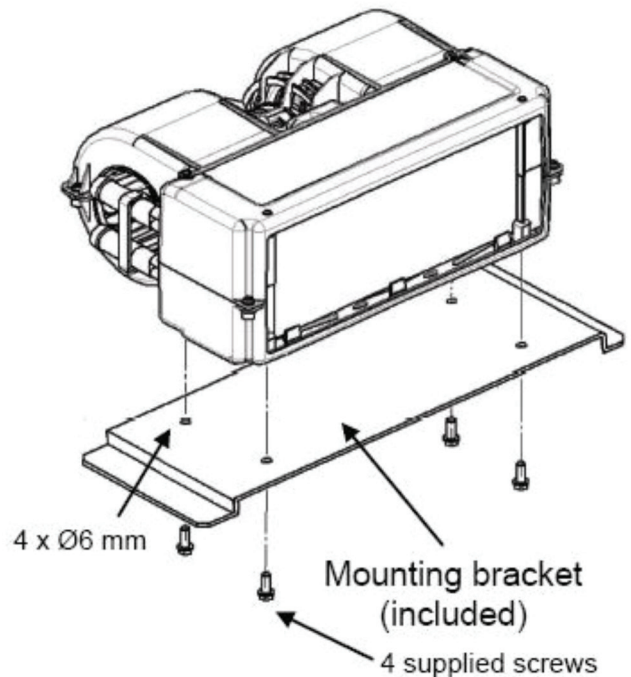
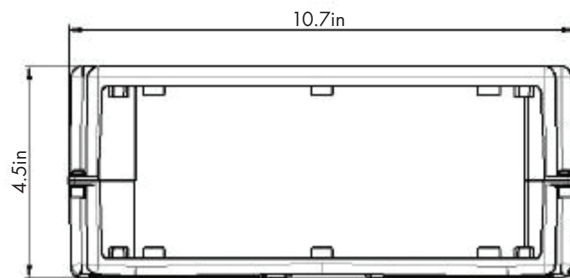
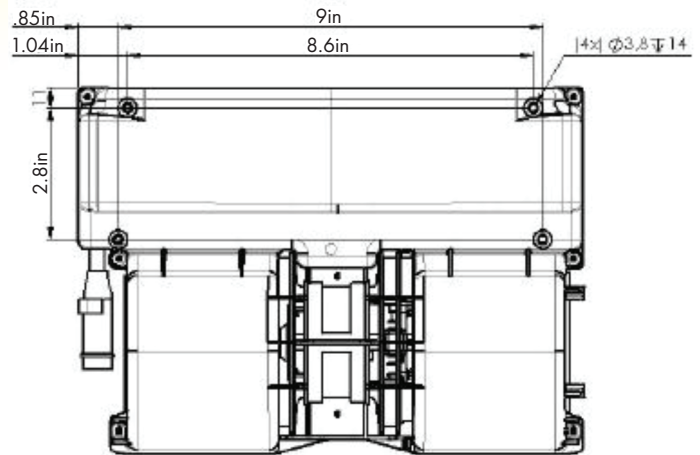
Technical Data:

- Voltage: 12V
- Electrical Power: 83.2W
- Heating Capacity: 20,000 BTU
- Nominal Air Flow: 177 CFM
- Weight: 4.21 lbs.

Optimum heating capacity is reached with air inlet temperature at 32°F , nominal air flow of $0.5\text{ m}^3/\text{h}$, 50% ethylene glycol and water, and coolant inlet temperature of 212°F .

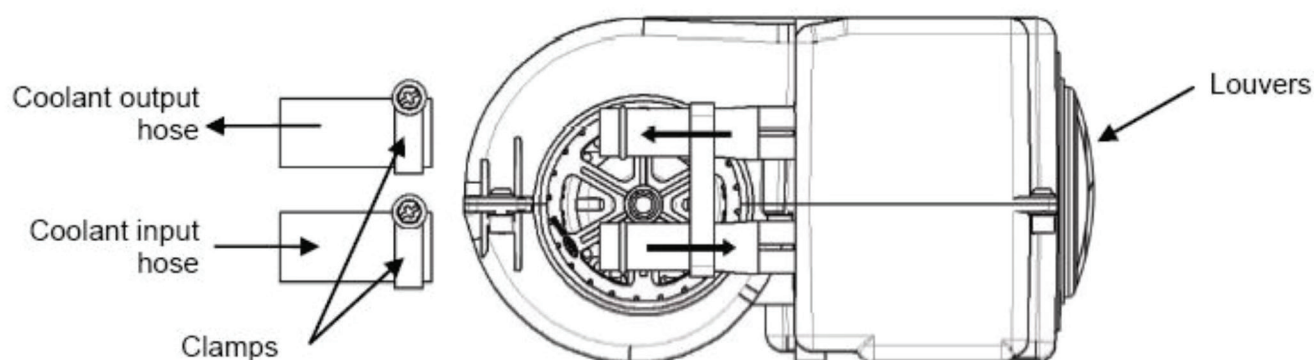
Mounting

- Secure the included mounting bracket to the top or the bottom of the heater with the supplied (4) 5x14 mm screws.
- Recommended tightening torque is 12 in/lbs.
- Thickness of the mounting bracket: 3 mm max.
- Blower motor axis should be in a horizontal position on the vehicle.
- **Do not drill into the heater case as it may damage the internal components.**



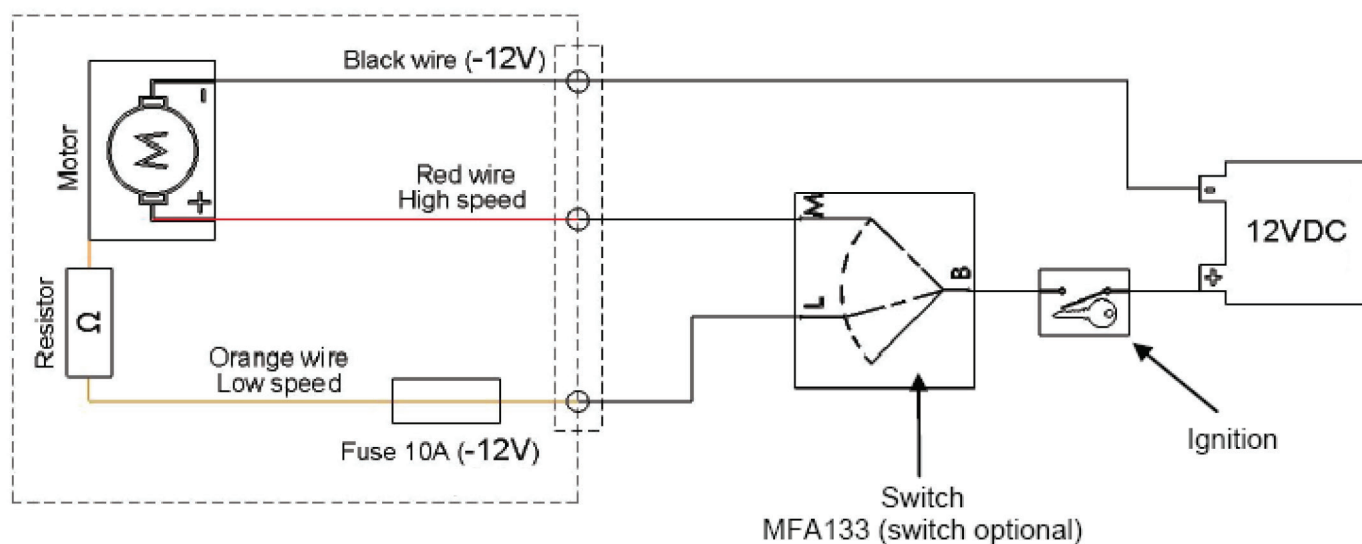
Plumbing

- Connect $\frac{5}{8}$ in. diameter heater hoses to heater inlet and outlet copper tubes using suitable hose clamps (hoses and hose clamps are not included). Note the direction of input and output tubes.
- Inspect for cooling leaks.



Wiring

- See the wiring diagram below to correctly power your heater.
- 14-16 gauge wire should be used.



Troubleshooting

Defect	Possible cause	Action
The blower does not work.	Defective fuse.	Ensure that the fuse is correctly installed and has the correct rating.
		Replace it if necessary. Always identify the cause before replacing the defective fuse.
	No power.	Switch On and/or connect the device to the battery.
		Make sure that electrical connections between the battery and the device are continuous.
		Read the vehicle operating instructions for more information.
	Electric cables are damaged or torn.	Contact your distributor.
The device can't be stopped.	Blower is blocked.	Rectify cause of blockage; for example, remove an object immobilized in wheels.
		Otherwise contact your distributor.
		The blower motor is defective.
The heater works only at reduced power.	Internal short circuit in the device.	Contact your distributor.
		Remove the fuse (first of all switch off battery power supply) and contact your distributor.
The heater works only at reduced power.	The voltage isn't suitable.	The voltage of the device and of the vehicle must be the same.
	The air outlet is closed or plugged.	Open the air vents or clear air outlet.
Air is not warmed.	Coolant still cold.	Wait until the engine reaches operating temperature.
	Water hoses are twisted or crushed.	Replace the water hoses if they are twisted or crushed.
Heating power is insufficient.	The airflow is too low.	Refer to the blowers defects.
	Air in heat exchanger.	Bleed the circuit.
	The heater is under sized.	Replace the device with a larger one.
		Contact your distributor.

The warranty does not cover products which have been disassembled.

Safety Instructions

Please comply with the following instructions for your own safety:

- The product must operate in an environment protected against liquid splashes (water...).
- The product must be used only for the purposes for which it has been designed. Product should never be used in an improper environment. Please refer to general sale conditions.
- Before using the product, please make sure that laws and regulations are strictly respected according to the country of use.
- For safety reasons (fire hazard), the power supply of the product must be protected by a specifically dedicated fuse.
- The fuse rating is given only as an indication; please verify the specific fuse required for each application.
- Switch off electric power supply before working on the product.
- Be careful, while servicing the device or its connections, the radiator and the coolant can be hot and under pressure.
- Before any servicing, wait for the complete cooling of the device and its connections. Make sure that it is no longer under pressure. Use suitable P.P.E. (Personal Protective Equipment) such as gloves.
- Do not touch the heat exchanger and its connections when coolant is flowing through the heat exchanger.
- Do not introduce any object into the blower and the heater case.
- Do not place any object that may obstruct air inlets or air outlets.