

VEHICLE AND MARINE BLOWN AIR HEATING

INSTALLATION AND OPERATING INSTRUCTIONS

PROPEX COMPACT 1600W AND 2600W HEATERS

Mounting

The Compact 1600W and 2600W heaters are designed for mounting inside your vehicle or boat. If space is prohibitive in vehicle applications, they may be mounted underneath using the Propex chassis mounting kit. This is a fibre-glass unit which protects the heater and electronics from the elements.

1. Find a suitable location, usually in a bedbox, locker or base of a cupboard and check that there are no chassis members underneath the location of the exhaust and combustion air holes.
2. For Compact 1600W, use template provided and run a 3mm Pilot Drill through exhaust and combustion air hole centres. Examine underneath the vehicle to check that there is adequate clearance for a 1½"/38mm hole saw.

For 2600W, mark position where exhaust and combustion air holes will be positioned and run a 3mm hole through centres. Check underneath vehicle that there is clearance for a 2"/50mm hole saw.

3. Having cut the appropriate holes, seat the heater with mounting brackets attached, and mark the position for the hot air outlet. Having run a Pilot Drill through hole centre, use a 4" hole saw for the standard outlet with directional control.
4. Using 4 countersunk ½" No 6 self tappers, attach the hot air outlet. Using the correct sized hose clips, attach the ducting to the outlet and the outlet of the heater.
5. For the Compact 1600W, run the 1" aluminium exhaust hose underneath the vehicle towards the side. Cut the aluminium hose to length and fix with a 30mm pipe clip. Carry out a similar procedure for the combustion air inlet and make sure both exhaust and inlet face the same direction. It is good practice to keep a distance of approximately 500mm between the ends of these two pipes. **NO FLUE TERMINALS ARE REQUIRED ON THIS INSTALLATION.**

If the Compact 1600W cannot be flued through the floor of the vehicle, a side flue kit is available.

The 2600W requires flue terminals on the exhaust and air inlet, however, the procedure is the same as the Compact 1600W but using the flue terminals to attach the pipe to the vehicle. Lengths of exhaust and combustion air pipes may be varied, but if possible cut the length of pipe provided into two pieces and use half on the exhaust and half on the combustion air inlet.

6. Use $\frac{1}{4}$ " No 8 self tappers to screw the heater in place. Both "feet" type brackets and "wall" brackets are available for the 2600W.
 7. 4 core cable is provided to connect the heater to the thermostat (see wiring diagram).
- 2 core cable is used to connect the thermostat to power.

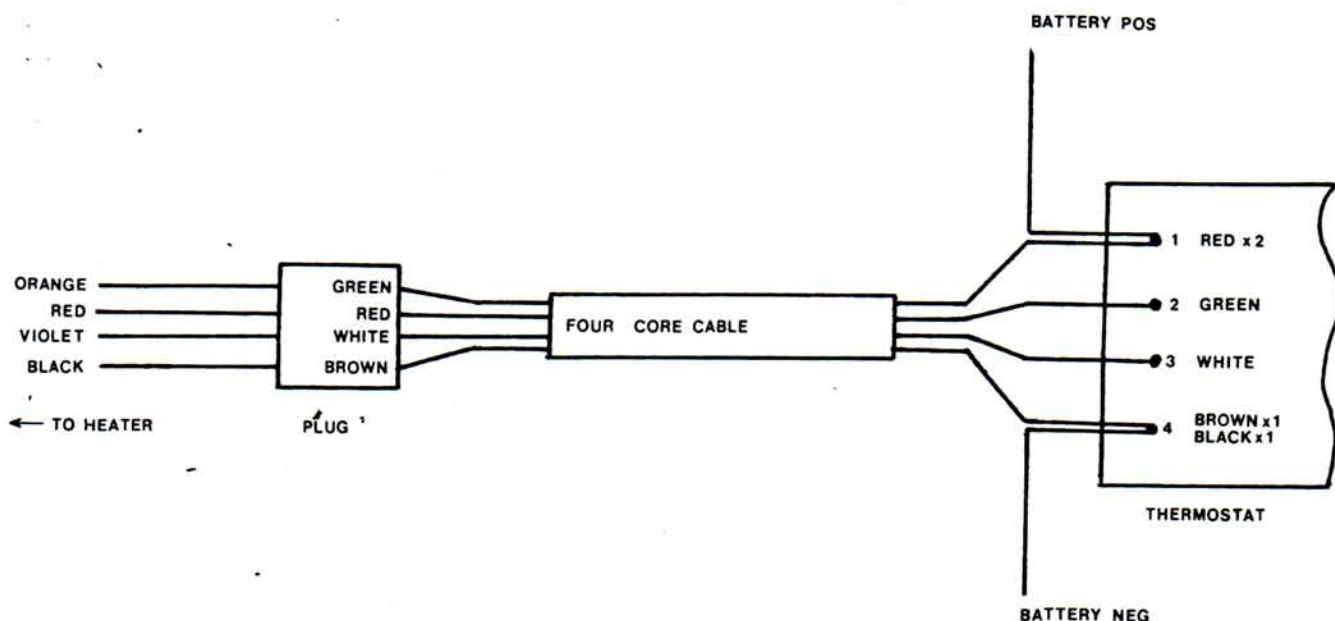


Fig 1. Wiring Diagram For Compact 1600 and 2600

8. All heaters are now fitted with 8mm gas connections. If the vehicle or boat uses $\frac{1}{4}$ " pipe then a reducer must be fitted to the heater. Using the correct sized 'T' piece, pipe the heater into the existing gas system. It is good practice to fit a gas tap if available. If the vehicle does not have a gas system, use 8mm copper pipe to connect the heater to the gas bottle locker/holder and the appropriate rubber pipe to connect the copper pipe to the gas bottle. Do not use rubber gas pipe directly onto the heater - a minimum of 20cm of copper pipe is recommended.

Note for Boat Installations

A stainless steel 'L' bracket is supplied with marine fitting kits for bulkhead mounting the Compact Heater. A suggested installation is shown in Figure ii. It is recommended to shape the combustion air and exhaust pipes into a "swan neck"; this will prevent water running down into the heater.

BOTH COMBUSTION AIR AND EXHAUST MUST BE FLUED EXTERNALLY. DOUBLE CHECK ALL ELECTRICAL AND GAS CONNECTIONS BEFORE OPERATION OF THE HEATER.

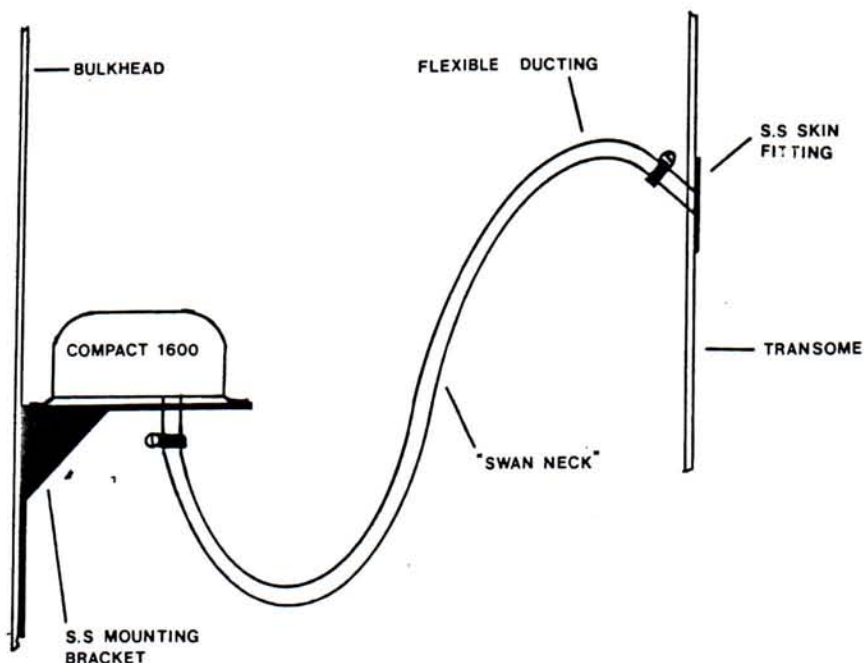


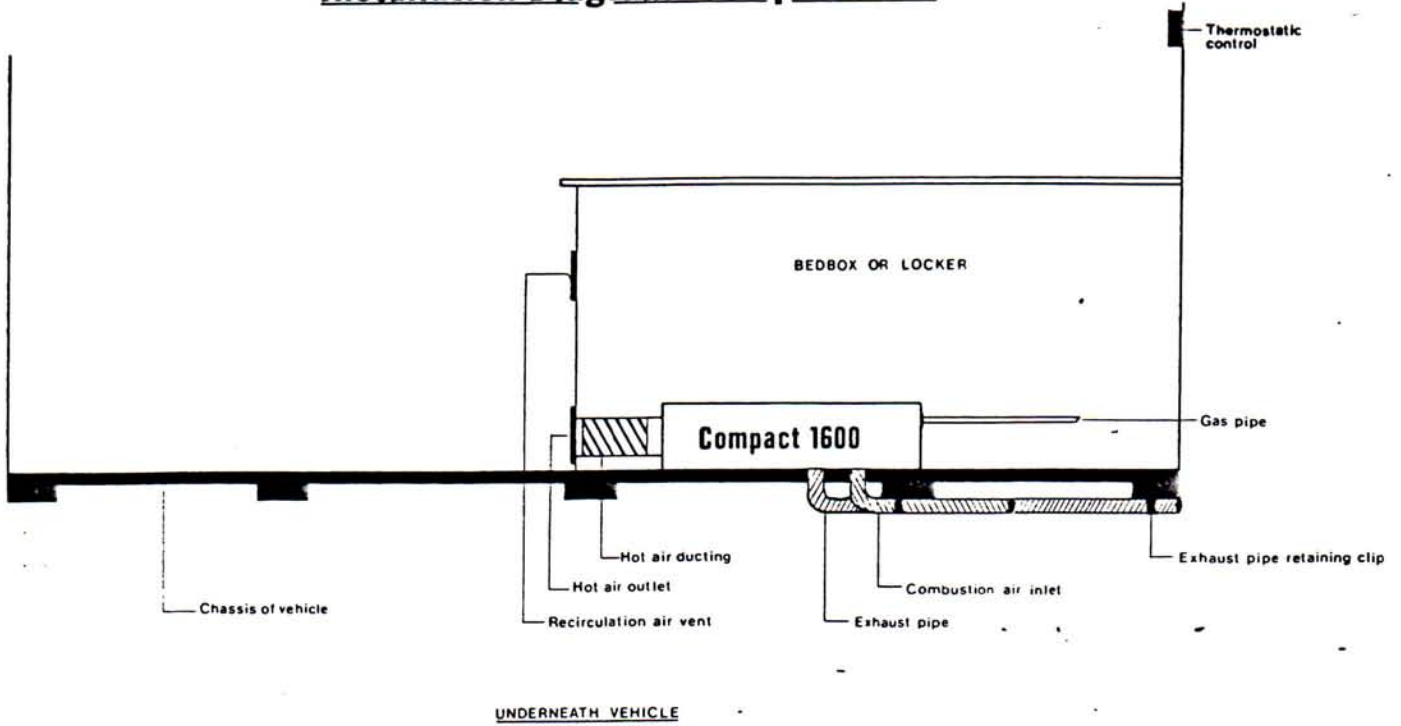
Fig ii. Marine Installation. N.B. Both Skin Fittings should be fitted in the same manner.

OPERATION

The thermostat dial selects the temperature and has a range of about 35°C starting at approximately 0°C. The function is selected by the 3 way switch. If heat is to be selected, press the switch on the side of the small flame and if cool air is to be blown, press the switch on the side of the propeller. When heat is selected, the red power light will glow and, if the thermostat dial is set high enough, the green light will come on and the heater will automatically ignite. If the cool air vent facility is selected, the red power light will turn green and the heaters fan will run without the burner.

For further information refer to the Operation Manual.

Installation Diagram - Compact 1600



Installation Diagram - 2600W

