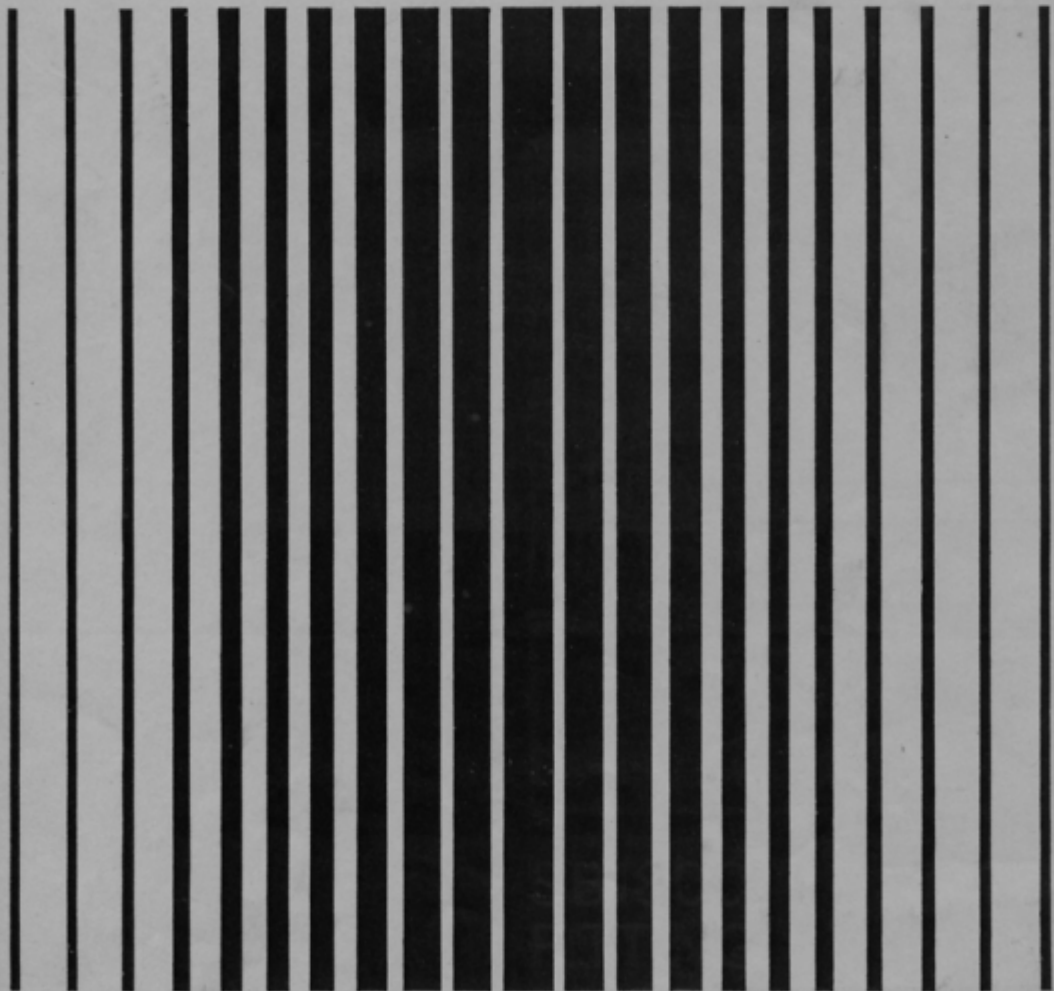


SB1800
FITTING
INSTRUCTIONS



Introduction

These instructions are a guide which we hope will solve any queries that may arise.

Before starting to install the heater it would be advisable to read the instructions in the context of your caravan. We have endeavoured to cover every aspect of the installation, but owing to the variety of caravans and their differing constructions this is not always possible.

Components of the heater referred to in text.

- A – INSTALLATION BOX
- B – IGNITION BUTTON
- C – GAS CONTROL KNOB
- D – TOP GRILL
- E – CASING
- F – CLAMPING PLATE
- G – AIR INTAKE ARM
- H – EXHAUST COWL
- I – CHROMED HEXAGON NUT

S.B. 1800 installation comprising: – heater unit assembled as illustrated – flue cowl – installation box (or reflective back panel according to choice) – set of servicing and operating instructions. Six wood screws (size ½" No. 6) will be needed to screw installation box into position.

Tools and other items that will be needed during installation – sharp knife – padsaw – screwdriver – hand drill and brace – masking tape – tape measure – pencil – 9mm (or 1 B.A.) tube spanner.

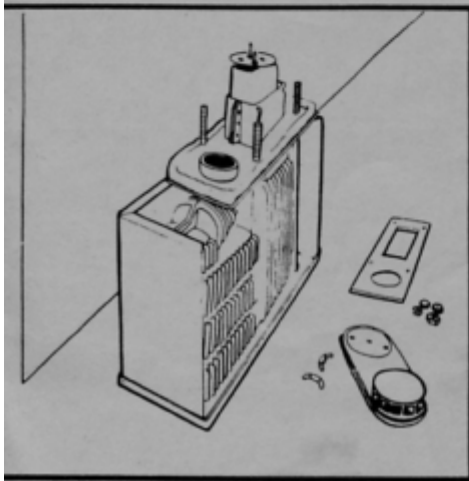
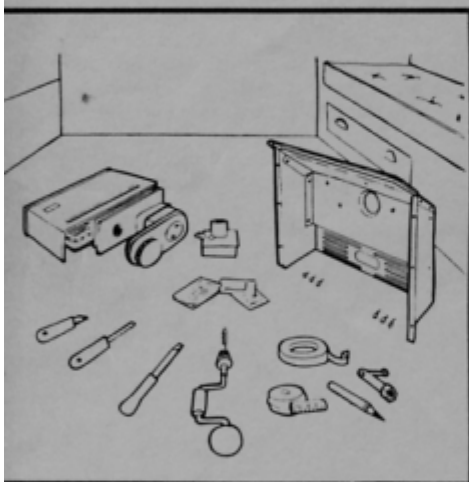
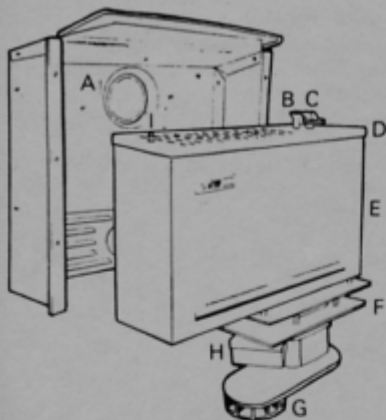
Make sure that you have all the components listed before starting.

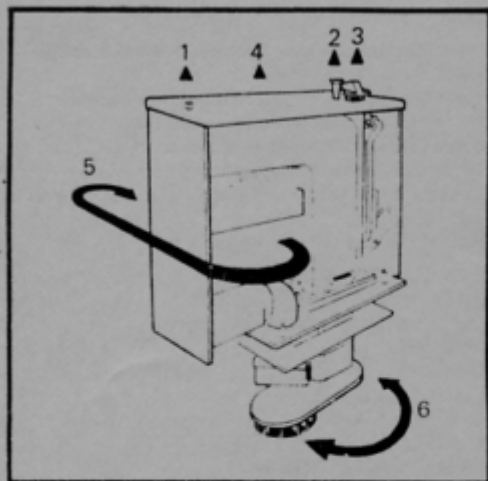
The choice of installation box will depend on where you intend to situate the heater. It is usually positioned in a recess at the base of a wardrobe using installation box U.B. It can also be placed against a wall using reflective back panel R.B.

Having placed the heater upside down, remove the two wing nuts and air intake assembly and the four hexagon nuts and the floor clamping plate.

When deciding where to position the heater, consider the underfloor layout of the caravan. The installation will require a hole to be cut through the floor, therefore it is important to be aware of the positions of gas pipes and chassis members relative to the area of the floor you intend to cut through. Having decided on an approximate position it will be found that the design has a certain amount of flexibility to enable the heater's underfloor parts to avoid the caravan's chassis members, should they coincide.

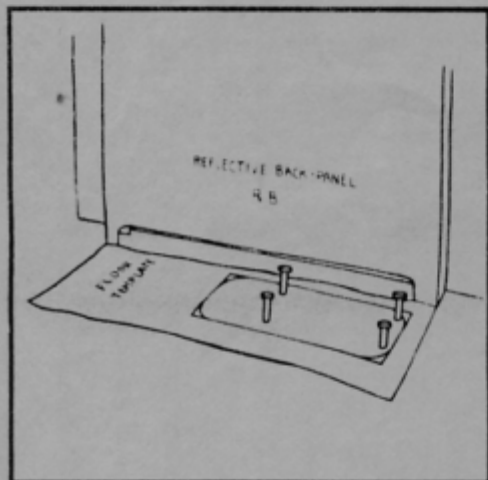
In the standard form the heater is right handed i.e. with the air intake and exhaust port positioned off centre on the right hand side of the appliance. The handing can be changed as described in the next stage.





To change the handing

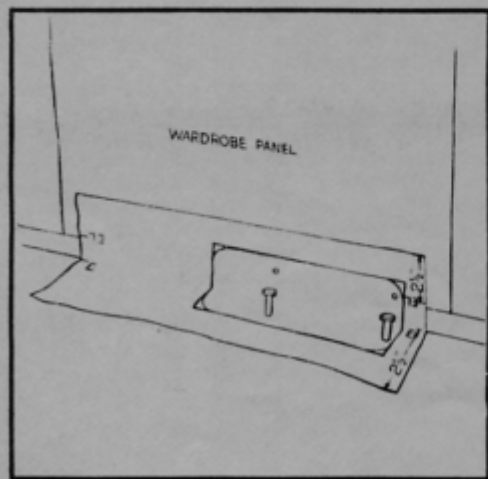
1. Remove small chrome hexagon nut.
2. Pull the control knobs off their spindles.
3. Remove nut which will be found beneath the knob.
4. Remove top grill and case.
5. Re-assemble with case on the opposite side of the exchanger.
6. Air intake arm can be swung through 360° to avoid obstructions.



For an installation adjacent to a wall, place reflective back panel (R.B.) in the desired position. Place the template against R.B. Follow positioning instructions which will be found on the paper floor template i.e. passing nails through clamping points and offering floor clamping plate to underside of caravan.

If it is found that the heater will not fit in the right hand form, turn the template around and proceed as before.

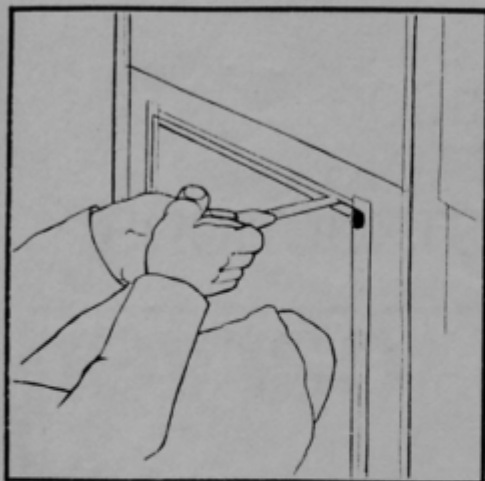
For left hand installation turn template around through 180°. If this is done the handing of the heater will need to be changed.



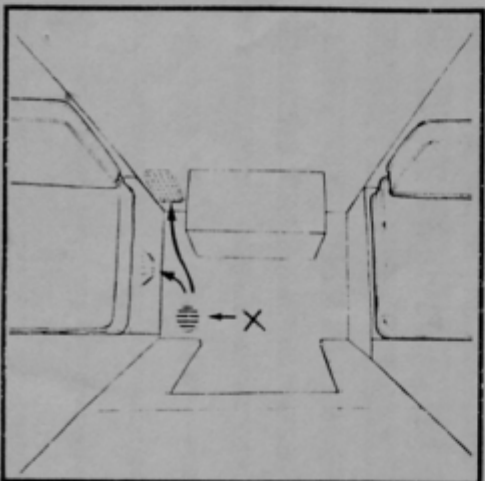
For a recessed installation fold the template along line EE (2½" from edge). Place the folded edge in the corner of the floor and wardrobe. Mark the holes and follow the positioning instructions.

If it is found that the heater will not fit in the right hand form, turn the template around and fold along line EL - EL.

After recess has been cut, lay template flat and mark hole for cutting.

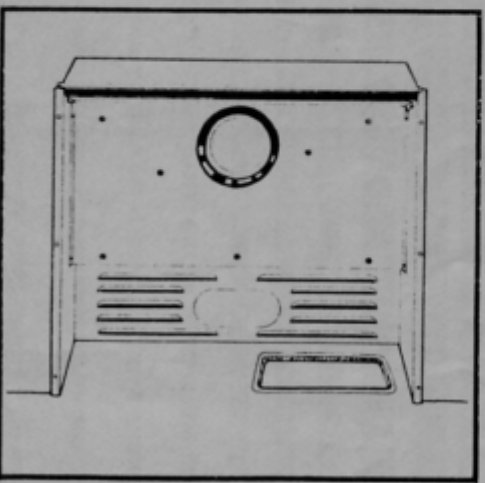


If it has been decided to recess the heater, the installation box will require an opening to be cut in the base of the wardrobe or division wall. 480mm x 480mm (18 7/8" x 18 7/8") It is ideal to protect the surface which is to be cut with masking tape, and score the line with a sharp knife. This should stop the veneer from lifting. Having marked the line, cut a starting hole for the padsaw. Cut the panel cleanly with the padsaw. The top edge will be visible.

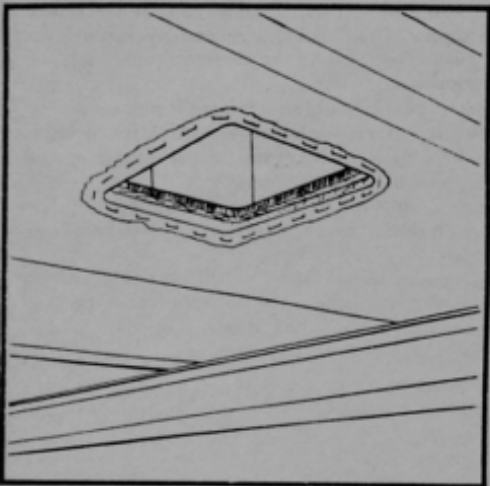


When installing a recessed heater it will be necessary to blank off any existing wardrobe floor vents. These should be replaced with wall mounted vents which should be mounted both on the exterior wall and an adjacent bunk locker wall. Between them, they should provide approximately 20" sq. air ingress area.

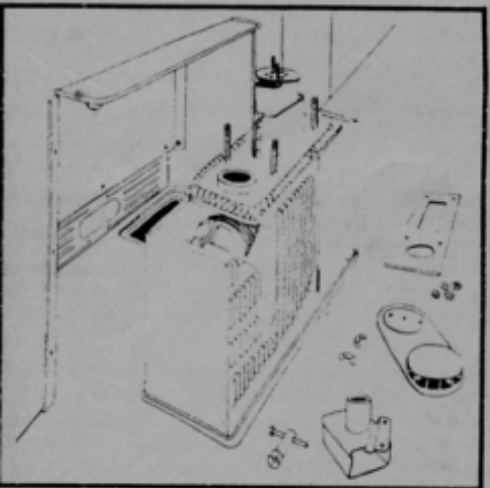
Note: To prevent entry of exhaust gases, it is important that any floor vents in the same underfloor channel as the heater exhaust should be blocked, as should any others within one metre of the heater.



Mark out the floor hole from template and cut away carpet to clear hole by 1" all round. Check underneath caravan before cutting hole.



Cut out floor hole as instructed on template. Protect any exposed insulation and timber by lining hole with kitchen foil. Staple this, along with loose polythene sheet, in position. Place installation box into the recess. Screw into position.



The heater should now be offered into the hole. Before going underneath to assemble remember to take flue cowl, clamping plate and four nuts, air intake arm and two wing nuts, clamping disc, and 9mm A/F box spanner.

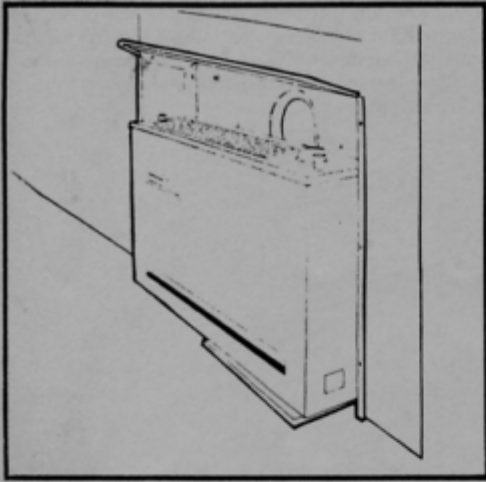


After passing the clamping plate over the four retaining studs, position the flue cowl over the two studs nearest the exhaust port. Place the cowl tube carefully into the port. Screw up all four nuts finger tight.

Go inside caravan and centralise the heater within the installation box. Finally go underneath and tighten retaining nuts.

Place the air intake over its two retaining studs with the intake facing downwards. Pass the securing disc over the studs and lightly screw up wing nuts. Select a suitable position for the air intake arm out of the path of road wheel spray and as far away from air flow obstructions as possible.

Finally tighten wing nuts.

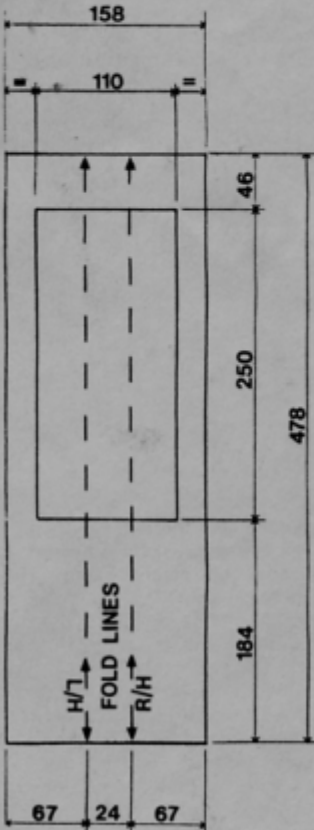


The heater is now securely installed and can be connected to a gas supply. The coupling provided will join the $\frac{5}{16}$ " (8mm) heater feed pipe to the commonly found $\frac{1}{4}$ " (6mm) supply pipe.

Satisfactory joints should be achieved if pipes are carefully cut, defrased and cleaned out. After fitting the nut and olive make sure that the pipe is held up against the stop collar during tightening.

Test all new joints for leaks by smearing soapy solution around each joint. Look for bubbles when system is under gas pressure.

Firing — operate as instructed in lighting and operating instructions. Allow time for air to be purged from the system and gas to reach the burners.



FLOOR TEMPLATE DMS.

The Carver Trumatic heater will fit in most caravans without difficulty, however should there be a problem the following notes may be of help.

Underfloor obstructions may be avoided by:—

- Changing the "hand" of the heater i.e. the front casing of the heater may be fitted to either side.
- Moving the position either in or out of the wardrobe face. If a totally inset position is required use installation box type G.T. 440.

It is permissible to move the heater out of an installation box (set template accordingly), if it is desirable to fit the heater entirely in front of the wardrobe, use one of the reflective back plates R.B.

- The heater may be set up on a plinth up to $1\frac{1}{2}$ " high. If there is still insufficient underfloor clearance a "Reduced Base" heater can be supplied, in this type the 7" dimension is reduced to $5\frac{1}{8}$ ". This type of heater must be ordered specially (SB 1800 Reduced Base). It is not possible to make this modification yourself. If when installed, the air inlet is obscured, within 3" distance by chassis members greater than 6" deep, the plastic star may be lowered by use of an extension kit code AIX to put it back into an unobstructed air flow. It is not permissible to extend the exhaust outlet either downwards or sideways.

Note: Installation Boxes (UB and GT 440), Reflective Back Panel (RB) and Air Inlet Extension (AIX) are not included in the basic heater kit. These items are available from your Caravan Accessory Retailer.

Service and Repair
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