

TO: ALL ROOTES GROUP DEALERS  
MODEL: SUNBEAM IMP  
SUBJECT: HEATER AND DEMISTER INEFFICIENCY

Should you receive complaints that the heater output is inefficient, you are recommended to undertake the following checks:

- A. Adjustment of Ranco Water Valve.
- B. Correct functioning of thermostat.
- C. Heater hoses for kinking and correct run.
- D. Bleeding of cooling system.
- E. Blocking of heater Matrix.
- F. Alignment of heater demister nozzles to facia aperture.

A. Ranco Water Valve Adjustment

- (a) Remove luggage compartment bulkhead trim to gain access to Ranco water valve.
- (b) Release cable by slackening screw on water valve trunnion.
- (c) Move heater control on facia panel to HOT (red) and ease back 1/8".
- (d) Place water valve in fully open position (A on illustration) i.e. control cable retracted.
- (e) Tighten clamping screw on trunnion.
- (f) Check action of control to ensure water valve opens and closes fully.

B. Engine Thermostat

Remove engine thermostat and check for correct sealing and operation.

C. Kinking of Heater Hose and Run.

- (a) Check that feed and return hoses are free from kink. Special care and attention should be paid to hoses where they pass immediately below rear parcel pockets.
- (b) Ensure hoses are fitted UNDER clips (B & C) on Illustration) secured on scuttle adjacent to Ranco Water Valve and not ON TOP as may be found to exist.

D. Bleeding of Coolant System.

Turn cylinder block and radiator drain taps clockwise to close. Set heater temperature control (if fitted) to hot (red symbol)

Connect a length of hose to bleed tap situated in the baggage compartment behind the rear trim pad. It is important that the hose fits tightly onto the bleed tap.

Open the bleed tap fully and enter free end of hose into a clean glass jar. Continue to run the engine at 2,000 r.p.m. until coolant flowing from the vent tap is free of air bubbles. Always keep the radiator top tank full of coolant during the bleeding operation. Shut off vent tap and blip engine to carry away any trapped air. Give radiator a final top up. Shut down engine.

Note: If heater is not functioning correctly, the above bleeding procedure should be carried out, at the same time ensuring that the Ranco Heater Valve is fully open with the heater control set at hot.

E. Blockage of Heater Matrix.

The heater matrix should be checked for providing a free flow of coolant water. This may be carried out as follows:

- (a) Remove heater hose from bleed valve.
- (b) Connect length of rubber hose to free end and place in a container that will accept 1 gallon of coolant.

- (c) Remove radiator cap.
- (d) Have available at least one gallon of coolant water or anti-freeze mixture to top up the radiator.
- (e) Start Engine and run at 2,000 r.p.m.
- (f) If the heater matrix is satisfactory, a circulation rate of one gallon in 30 seconds will be obtained.

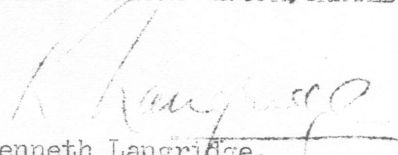
N.B. During this time the correct radiator level MUST be maintained.

F. Alignment of Heater Demister Nozzles to Facia Aperture.

If the demister nozzles are not correctly aligned with the apertures in the facia, packing washers to Part Number 9067021 may be added between the demister nozzle and the brackets.

Encl. Sketch 6460.

ROOTES MOTORS INCORPORATED

  
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