## Adjusting Engine Compartment Heater

**13 EN**

### General

The engine compartment heater controls the temperature of the induction air in the engine compartment. The air is supplied by two connecting channels from the heater duct to the engine compartment. A bellows thermostat controls the amount of air supplied by this heater to the carburetors.

The proper functioning of this system depends on correct adjustment. An improperly adjusted thermostat can cause overheating during warm weather and result in power loss. In cold weather it can cause carburetor icing.

A simple gauge, as shown in fig. 106 can easily be fabricated for adjusting the thermostat. The bellows begins to open at 23° ± 2° C (13° ± 3.6° F) and is fully extended (approx. 12 mm, 4.7 in.) at 31° to 34° C (90° to 93° F).

The temperature range 23° to 34° C is marked on the top of the bellows.

### Adjustment

1. Loosen clamp and disconnect ball joint.
2. Check that both flaps open and close together.
3. Insert gauge and mount bellows (Fig. 105) pulling on operating rod until gauge fits snug and hold.
4. Adjust end link at the clamp or ball joint so that flaps are fully closed.
5. Tighten clamp screw and lock nut on ball joint.
6. Remove gauge.
7. Check linkage for free movement through the fan housing and align if necessary.

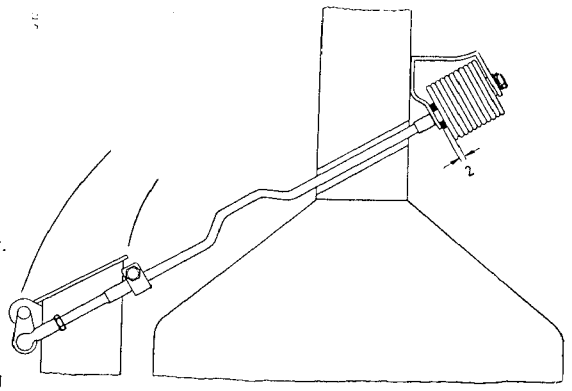


Fig. 105

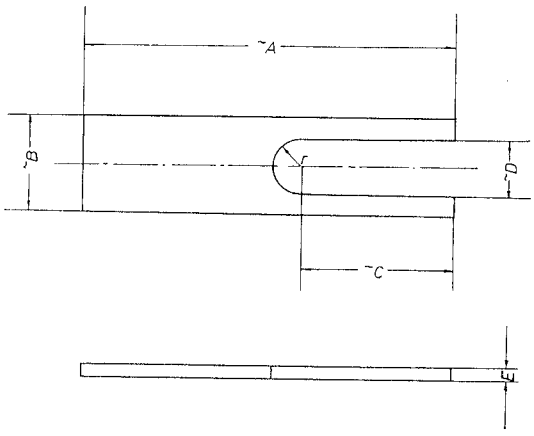


Fig. 106

A = 60 mm (2 3/8 in.)
B = 16 mm (5/8 in.)
C = 25 mm (1 in.)
D = 9 mm (7/16 in.)
E = 2 mm (1/8 in.)