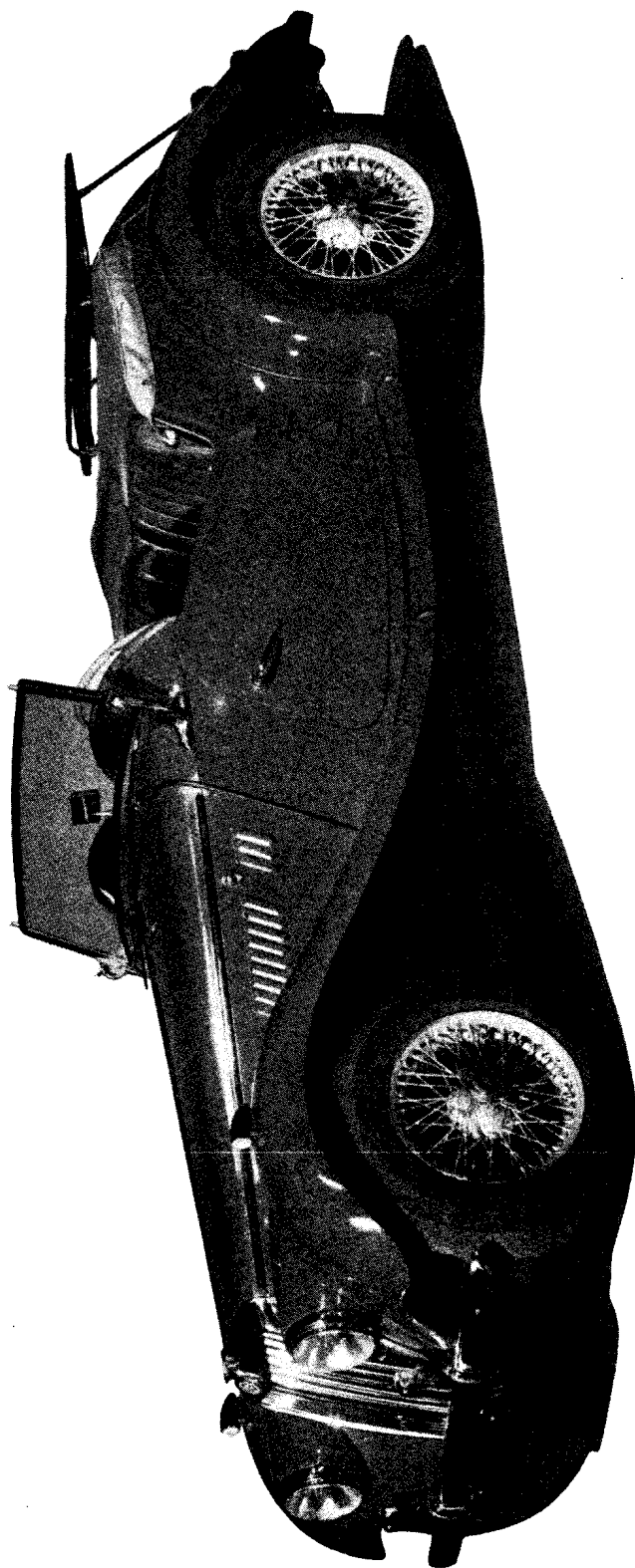


**THE M.G. MIDGET (Series "TF")**



# SECTION DD

## THE COOLING SYSTEM

General Description.

Section No. DD.1 Draining and filling the cooling system.

Section No. DD.2 To remove the radiator.

Section No. DD.3 The water pump—to dismantle and reassemble.

### GENERAL DESCRIPTION

The cooling system of the M.G. Midget (Series "TF") is sealed, and the water circulation is assisted by a pump attached to the front of the cylinder block and driven by a belt from the crankshaft. The water circulates from the base of the radiator and passes around the cylinders and cylinder head, reaching the header tank of the radiator via the thermostat and top water hose. From the header tank it passes down the core to the base tank of the radiator. Air is drawn through the radiator by a fan attached to the water pump pulley.

### Section DD.1

#### DRAINING AND FILLING THE COOLING SYSTEM

The cooling system is under appreciable pressure while the engine is hot after a run and the radiator filler cap must be removed very carefully or left in position until the water has cooled.

If it is necessary to remove the filler cap while the engine is hot, it is absolutely essential to remove it

gradually, and the filler spout is provided with a specially shaped cam to allow this to be done easily.

Unscrew the cap slowly until the retaining tongues are felt to engage the small lobes on the end of the filler spout cam and wait until the pressure in the radiator is fully released before finally removing the cap.

Drain and refill the system as detailed in Section D.1.

### Section DD.2

#### TO REMOVE THE RADIATOR

Take off the bonnet by undoing the rear hinge bracket and withdrawing the bonnet rearwards from the front hinge.

Detach the forward ends of the radiator stays.

Remove the bolt at each side bracket securing the radiator to the valances at the top.

Remove the two set bolts screwing into captive nuts in the radiator grille at each side, accessible below the wings.

Disconnect the by-pass hose at the thermostat, the hose on the elbow at the pump, the lower hose at the radiator and the main hose at the top of the thermostat.

Unscrew and remove the nuts below the radiator securing it to the front cross-member.

The shell and radiator block will then come away together.

### Section DD.3

#### THE WATER PUMP—TO DISMANTLE AND REASSEMBLE

The water pump used in the Series "TF" is the same as that fitted to the later types of the "TD" and is illustrated in Fig. D.6.

Instructions for its removal, dismantling and reassembly will be found in Section D.4. Disconnect the tie-bar between the valances.

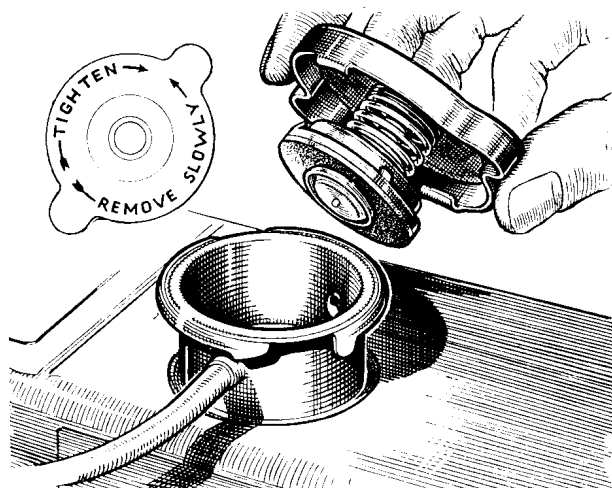


Fig. DD.1.

The filler cap showing the retaining cam on the spout rim and the safety lobes.