

Section CCC.1

MODIFIED WATER PUMP

Later 3000 Mk. II engines are fitted with a modified water pump having a one-piece bearing and spindle. The fan pulley is an interference press fit on the spindle, instead of being keyed and secured by a nut and washers as previously. This pump was introduced at Eng. No. 29E-H-2246.

Dismantling

- Remove the fan pulley with a suitable extractor.
- Pull out the bearing locating wire through the hole in the pump body.
- Gently tap the pump bearing assembly rearwards out of the pump body. This will release the combined bearing and spindle assembly, together with the seal and vane.
- Remove the vane from the bearing assembly with a suitable extractor and remove the pump seal assembly.

Reassembling

Reassembly is a reversal of the dismantling procedure, but care must be taken to see that the seal assembly is in good condition. If there is any sign of damage the seal must be renewed. When the bearing assembly is fitted into the pump, the hole (A) in the bearing must coincide with the lubricating hole in the pump body, and a clearance of .020 to .030 in. (.5 to .8 mm.) must be maintained between the vane and the pump body (see Fig. CCC.1.)

As the interference fit of the fan pulley on the spindle will have been impaired when dismantling, a new pulley must always be fitted and pressed home until its recessed face (B) is flush with the end of the spindle.

Section CCC.2

MODIFIED THERMOSTAT

A non-bellows wax element type of thermostat, interchangeable with the bellows type used previously, was fitted from Engine No. 29F/2592 to improve the

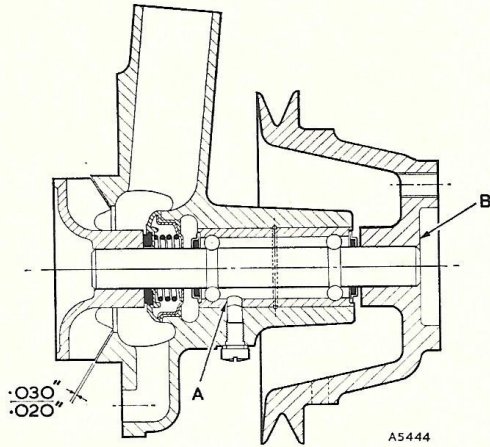


Fig. CCC.1. A section through the water pump showing the components. When assembled, the hole in the bearing (A) must coincide with the lubricating hole in the pump body and there must be a clearance of .020 to .030 in. (.508 to .762 mm.) between the vane and the pump body. The recessed face of the hub (B) must be flush with the end of the spindle.

effectiveness of the car heating equipment. The crack-open temperature is given in 'GENERAL DATA'. When refitting this type of thermostat it is essential that the threaded stem of the unit faces upwards.

Section CCC.3

FROST PRECAUTIONS

The correct quantities of anti-freeze are:—

Anti-freeze %	Commences to freeze		Frozen solid		Amount of anti-freeze		
	°C	°F	°C	°F	Pts.	U.S. pts.	Litres
25	-13	9	-26	-15	4½	5½	2.7
33½	-19	-2	-36	-33	6½	7½	3.6
50	-36	-33	-48	-53	9½	11½	5.4