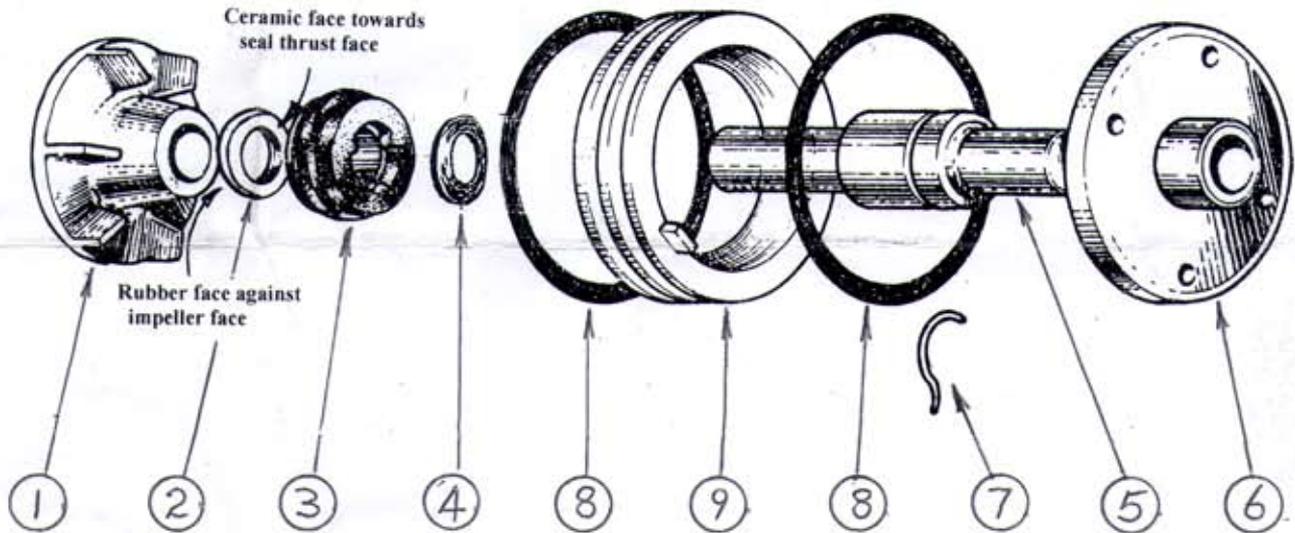


Lotus Twin Cam Water Pump Repair Kit : Part no. FL304K

Component identification and assembly instructions



Fitting Notes:

Before assembly, check all kit parts are clean and undamaged. The cover should be clean and the bearing bore and seal housing clean and free from burrs and water scale.

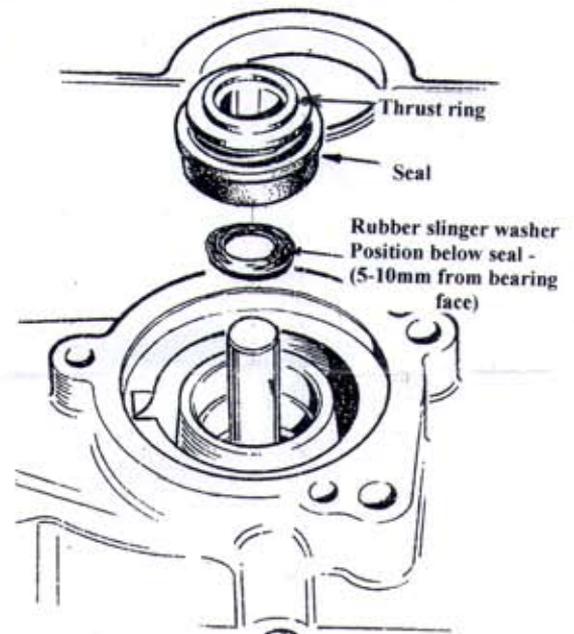
- (i) Press the bearing/shaft assembly (5) into the cover housing until the retaining clip grooves line up. Replace wire clip (optional).
- (ii) Push rubber slinger (4) over shaft until it is within 5-10mm of bearing face (see illustration).
- (iii) Carefully press the new seal (3) into the housing taking care not to mark or damage the thrust ring. **Note:** most of these original covers can be badly corroded in this area and we strongly advise the application of a good quality silicon sealant under and around the metal flange of the new seal before pressing into the housing. *N.B. Use a suitably sized mandrel or sleeve to make sure the seal is fully pressed into its recess with the flange resting tightly on the top face. Remove any excess sealant from this area before continuing.*
- (iv) Apply silicon grease to 'O' rings (8) and outer surface of adaptor ring (9). Fit adaptor ring into cover housing ensuring that the lug on the adaptor ring engages in the machined slot, and the ring is sitting firmly on the bottom of the recess.
- (v) Push the ceramic washer over the end of the shaft ensuring that the ceramic face is pointing towards the seal thrust face (see illustration) **Note:** a small smear of silicone grease or lubricant applied to the end of the shaft will assist the rubber to slide more freely up to the seal. *N.B. Any silicon residue must be removed from seal faces.*
- (vi) Carefully press the impeller onto the shaft leaving a gap of between 0.020" – 0.030" (0.50 – 0.76mm) between the impeller blades and the adaptor ring.

Kit parts (FL304K):

- 1) Impeller
- 2) Ceramic washer/seal
- 3) Seal
- 4) Rubber slinger
- 5) Bearing/shaft assy.

Order separately as required:

- 6) Pulley flange
- 7) Retaining clip
- 8) 'O' ring (2 off) – FL846
- 9) Adaptor ring – FL845



The above notes are advisory and should be used in conjunction with, and not as a replacement of, the Manufacturer's workshop manual. It is the buyer's responsibility to ensure the work is carried out by a competent person.

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