

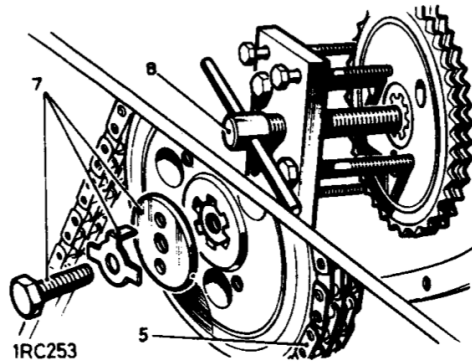
TIMING GEARS – Petrol**Remove and refit**

12.65.22

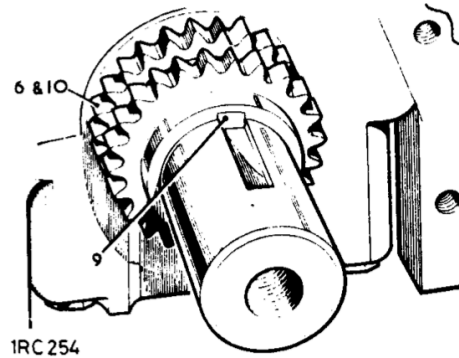
Service tool: 507231 Chainwheel extractor

Removing

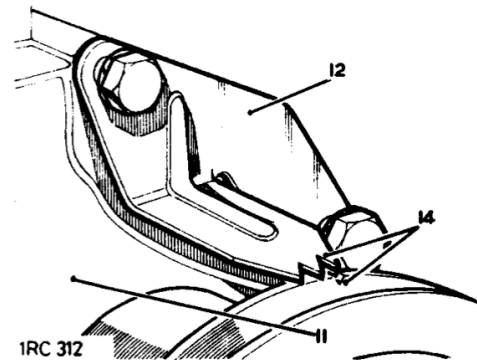
- 1 Remove the bonnet. 76.16.01.
- 2 Remove the radiator and front panel assembly. 26.40.01.
- 3 Remove the timing gear cover. 12.65.01.
- 4 Remove the timing chain tensioner. 12.65.28.
- 5 Withdraw the timing chain.
- 6 Withdraw the chainwheel from the crankshaft.
- 7 Remove the fixings from the camshaft chainwheel.
- 8 Extract the chainwheel from the camshaft. 507231.

**Refitting**

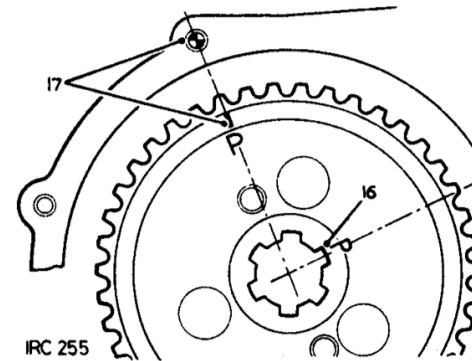
- 9 Check that the key for the chainwheel is correctly located in the crankshaft slot.
- 10 Fit the chainwheel, large shoulder first, to the crankshaft.



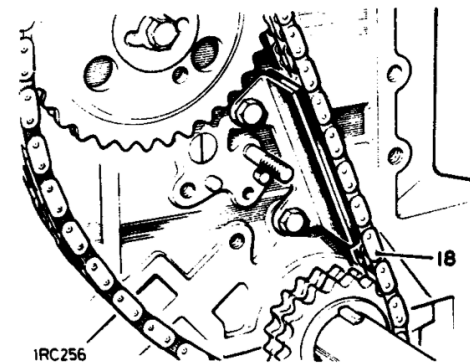
- 11 Locate the timing gear cover in position.
- 12 Fit the timing pointer.
- 13 Locate the crankshaft pulley in position.
- 14 Rotate the crankshaft until the timing mark in the crankshaft pulley is aligned with the longest tongue on the timing pointer (No. 1 piston at TDC).



- 15 Without disturbing the crankshaft, remove the pulley, timing pointer and gear cover.
- 16 Fit the camshaft chainwheel, using keyway marked 'P'.
- 17 Rotate the camshaft chainwheel until the groove marked 'P' is in line with the centre of the tapped hole, as illustrated.



- 18 Retaining the chainwheels in the set positions, fit the timing chain ensuring that there is no slack chain on the driving side.



- 19 If it is not possible to obtain a taut fit on the driving side of the chain with the chainwheels in the set positions, withdraw the camshaft chainwheel without disturbing the set position of the camshaft, and refit the chainwheel using one of the alternative keyways. This procedure may be repeated until a taut chain is obtained on the driving side with the camshaft and crankshaft in their previously set positions.
- 20 Reverse 1 to 4.