ENGINE SERVICE MANUAL

PERKINS NEW 700 SERIES



6-77740NA

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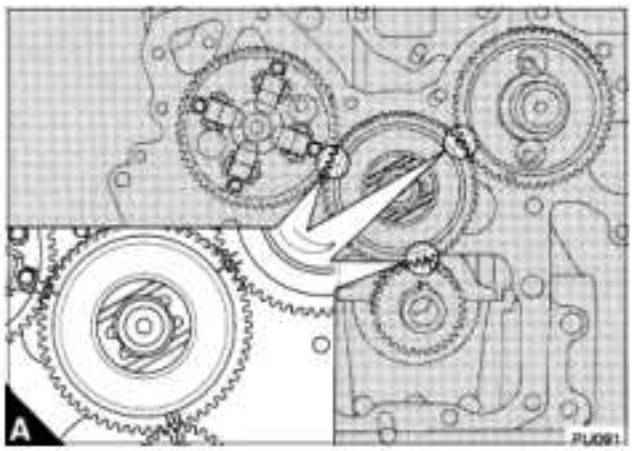
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Crankshaft gear

To remove and to install **15A-08**



To remove

1 Remove the timing case assembly, operation 15A-01.

2 Rotate the crankshaft until the marked teeth of the crankshaft gear, the gear for the camshaft for the valves, and the gear for the camshaft for the fuel injection pump, are aligned with the marked teeth of idler gear (A).

3 Remove the idler gear, operation 15A-03.

4 The crankshaft gear is an interference install on the crankshaft. It may be removed with a suitable puller. If this is not possible, it will be necessary to remove the crankshaft, operation 14A-08, and press the gear off.

To install

Warning! *Heat is used to install the gear, make sure that suitable leather gloves are worn to protect the hands.*

1 To install the gear, it will be necessary to heat the gear before it will install onto the crankshaft. Heat the gear gradually to not more than 300°C (572 °F). Do not use a flame as this can cause local damage. Install the gear with the timing marks towards the front.

2 Install the idler gear, operation 15A-03 and make sure that all the timing marks are correctly aligned.

3 Install the timing case assembly, operation 15A-01.

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Data and dimensions

Introduction

Note: *This information is given as a guide for personnel engaged on engine overhauls. The dimensions which are shown are those which are mainly used in the factory.*

Cooling system

Type.....Thermostat controlled - pump assistance

Water pump

Type.....Centrifugal, belt driven

Thermostat

Type.....Single, wax element

Nominal temperature stamped on the base of the by-pass valve	"Start to open" temperature	"Fully open" temperature	Minimum valve lift, fully open
82.0 °C (179.6 °F)	77/85 °C (170.6/185.0 °F)	92/98 °C (197.6/208.4 °F)	9 mm (0.35 in)
76.0 °C (159.8 °F)	67/75 °C (152.6/167.0 °F)	85/88 °C (185.0/190.4 °F)	9 mm (0.35 in)

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