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DAYCO AFTERMARKET TECHNICAL INFORMATION

Subject: KTBA281, KTBA281H
KTBA281HP & KTBA281HP1 TIMING KITS

TI00020

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Mitsubishi Challenger/Triton 4D56T

Note: For removal and installation instructions please refer to relevant OEM or Industry Technical Information Sheets

This family of timing kits contains a Timing Tensioner Assembly (Dayco P/N KT190) for the main timing drive, and is supplied with a special Allen Shoulder Bolt held captive by a plastic sleeve (refer below).



Upon removal of the plastic captive sleeve, it is important that the spacer washer remains in its intended place on the assembly and is included when fitting to the engine. Further, the bolt must be tightened down to a torque of **48Nm +/- 6Nm**. Once fitted, check that the tensioner assembly pivots freely about its mounting point.

Plastic captive sleeve as supplied on bolt



If these additional procedures and checks are not carried out there is a potential for the mounting bolt to fail through fatigue, resulting in engine damage (an example of such a failure shown in photo left). Any claims with evidence of this type of failure will not be covered under warranty.

Mounting bolt failure through fatigue

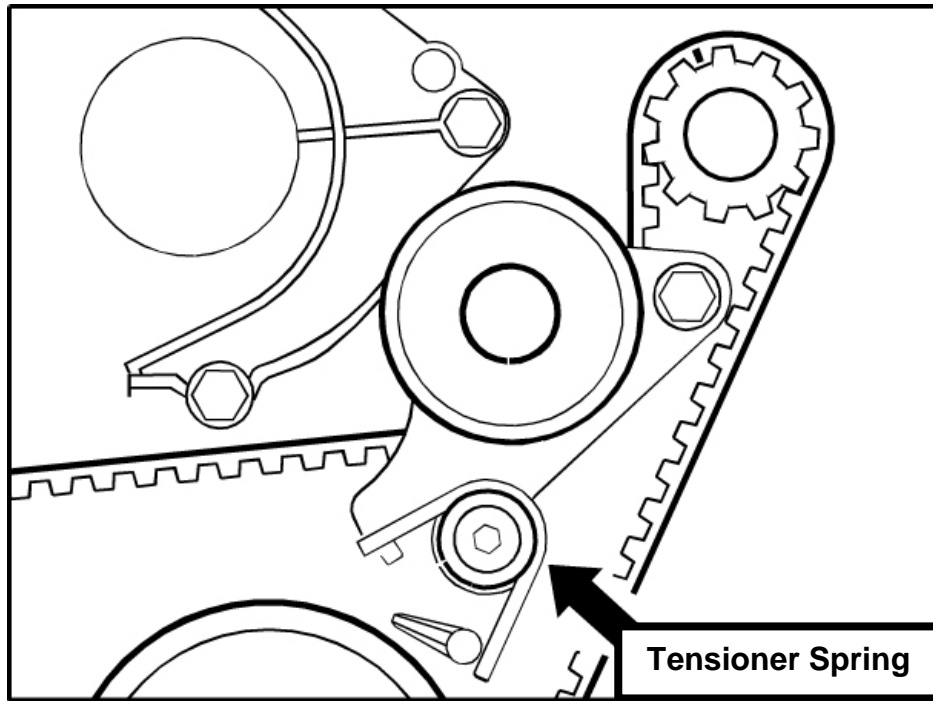
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Balance Shaft Timing Belt Installation Information

Similar to the valve train timing drive, refer to OEM and/or relevant industry technical information sheets with the following aimed at reinforcing those procedures.



When installing new balancer timing drive belt and tensioner, ensure there is no slackness on tension side, and specifically:

- The balancer timing belt tensioner spring is fitted with the shorter leg facing towards the water pump
- Tighten the tensioner assembly, first the hex socket head bolt to 20Nm, then the hex head bolt near the top balancer shaft sprocket to 23Nm. It is essential that this sequence be adhered to.
- Check the belt tension by deflecting the timing belt pushing inwards with finger at a point midway between the top balance shaft sprocket and crankshaft driving sprocket. Deflection should be 4-6mm, if outside these parameters then the sequence of installation should be repeated.

Failure to observe correct installation procedures surrounding the balancer timing drive can result in premature failure of components due to improper tension, notably:

1. Timing Belt jumping teeth or shearing off teeth
2. Timing Belt not running true, and interfering with main camshaft timing belt
3. Balancer Timing Belt Tensioner failure

Warranty claims with evidence of any these types of failures will be rejected.