



## DAYCO AFTERMARKET TECHNICAL INFORMATION

### Subject:

**Mitsubishi I4 Timing Drive**

**T00017**

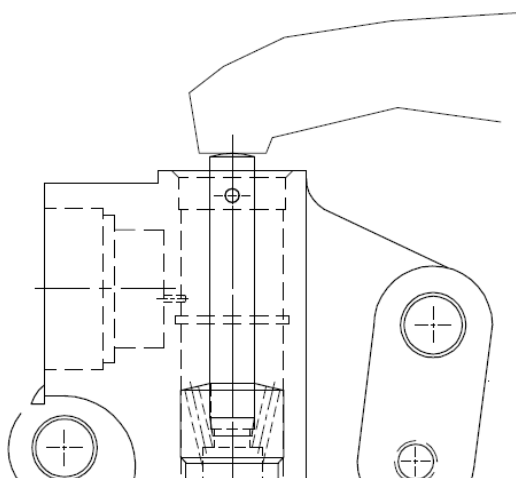
**Eng Code: 4G63, 4G64, 4G69 etc**

**Issued Mar16**

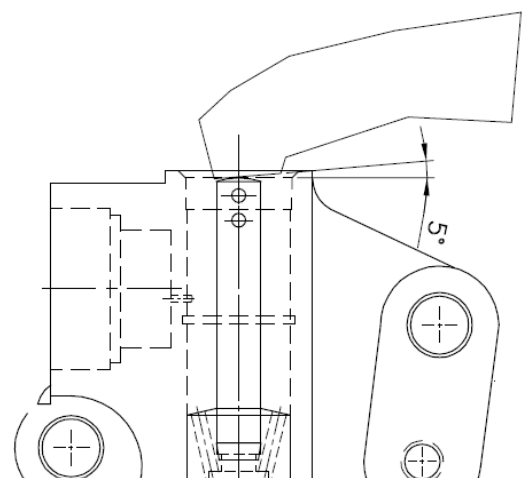
The Timing Drive on the Mitsubishi I4 family of engines (4G63, 4G64 and 4G69) incorporates a hydraulic automatic tensioner (HAT) to maintain tension on the timing belt. When replacing the timing drive with a full service Dayco Timing Belt Kit, it is essential that the vehicle manufacturer's recommended removal and installation procedures are referred to.

It is also essential that the correct special service tools (SST) referred to in the vehicle manufacturer's procedures are used. This will ensure that the tensioner pulley is set to the correct position in order for the HAT to operate in its intended working range. The correct position for the tensioner actuator should sit such that the interface between the actuator rod and tensioner arm is perpendicular to the direction of travel of the rod. An example of correct and incorrect position is shown below.

Correct Position



Incorrect Position



If these procedures and SST's are not used, the hydraulic actuator may operate in a range that will not provide the correct tension to the belt. This could cause a timing drive that either becomes noisy in operation or allows the drive to become unstable and lose timing or ultimately lead to failure of the timing drive.



Evidence of HAT failures are actuator rods jammed in retracted position, and hammer marks around the HAT body where the tensioner assembly has come into contact with it. Example of which is shown above.

Dayco does not accept any warranty returns for claimed HAT failures that exhibit evidence that procedures were not adhered to.

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