

# SWAG 50 93 3673,

50 93 0097, 50 92 4407, 50 92 4429,  
60 93 9793

#### To fit:

Ford Mondeo (01), Transit (00),  
Jaguar X-Type models equipped  
with air conditioning

Engine: 2.0 TDCi and 2.2 TDCi




## TVD (Torsional Vibration Damper) pulley for crankshaft

### Problem

An excessive and harsh rattling noise can be heard, along with increased vibration coming from the auxiliary belt area when the engine has just been started at idle or at a low RPM.

### Cause

Exposure to road debris, constant heat cycles and absorbing shock loads outside the design tolerances from the engine can degrade the rubber component, leading to failure. If left untreated, this can result in failure of the crankshaft.

The vehicle manufacturer has updated the TVD in production - if the crankshaft pulley has part number 4C1Q-XXXXX-C1A or 4C1Q-XXXXX-C1B, it must be replaced with a superseded part. The SWAG replacement part (50 93 0097) adheres to all of the latest specifications from the vehicle manufacturer and is produced with the same high-quality materials to assure an optimum repair solution.

### Solution

Check that the auxiliary drive system, ignition and fuelling systems are in good condition and within the vehicle manufacturer's tolerances. Remove and inspect the TVD pulley and all other auxiliary drive components and replace as necessary.

SWAG advises that the following components of the auxiliary drive system are also replaced at the same time as the torsional vibration damper and retaining bolts:

Auxiliary belt tensioner (SWAG 50 92 4429)

Auxiliary drive belt (SWAG 60 93 9793)

Idler bearing (SWAG 50 92 4407)

For more technical information please visit: [partsfinder.bilsteingroup.com](https://partsfinder.bilsteingroup.com)

