TECHNICAL SERVICE BULLETIN	reissue No.18/2005 25 August 2005

Circulate to:	Service Manager	Body Shop Manager	Parts Manager	Foremen	Receptionists	Technicians

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This reissue replaces all previous versions. Please destroy all previous versions. Only refer to the electronic version of this TSB in FordEtis. The service instruction has been updated.

Subject/Concern:	Drumming noise from the accessory drive belt with the engine at idle

Model:	
Mondeo 2001 (10/2000–02/2007) - with air conditioning	Build Date: 01.06.2004-10.01.2005 Build Code: 4K-5J Engine: 2.0L Duratorq-TDCi (Puma) Diesel Engine: 2.2L Duratorq-TDCi (Puma) Diesel
Transit 2000.5 (01/2000–05/2006) - with air conditioning	Build Date: 01.06.2004-10.01.2005 Build Code: 4K-5J Engine: 2.0L Duratorq-TDCi (Puma) Diesel

Markets: All
Section: 303-05

Summary

Should a customer express concern about a drumming noise from the accessory drive belt with the engine at idle, the probable cause is a high accessory drive belt excitation caused by crankshaft vibration being transmitted into the accessory drive belt drive. The drumming noise only occurs during idle and should disappear at engine speeds above 1000 rpm.

To rectify this concern a revised crankshaft pulley together with a new accessory drive belt and accessory drive belt tensioner MUST be installed, without exception. The reason for replacing the accessory drive belt and the accessory drive belt tensioner is because they will both deteriorate after prolonged exposure to belt flap.

This TSB contains a diagnostic guide for checking the affected crankshaft pulleys and the accessory drive belt span before removing the crankshaft pulley.

• NOTE: For Transit 2000.5 (01/2000-) the generator has to be removed to get access to the accessory drive belt tensioner pivot screw. The labor time for operation number 21 567 0, Accessory Drive Belt Tensioner - Remove And Install, includes these additional steps. Updates to all relevant Transit 2000.5 (01/2000-) Workshop Manual Sections will be made at the earliest opportunity.
• NOTE: The design of the crankshaft pulley has been changed from 06/2004 onwards. No changes to the special tool 205-072 / 205-072-01 are required.
All parts removed should be sent back to the Parts Recall Center for further investigation.

Parts Required

Description	Finis Code	Quantity
Accessory drive belt tensioner	1 201 181	1
Crankshaft pulley	1 351 731	1
Accessory drive belt		
Mondeo 2001 (10/2000-) only	1 102 827	1
Transit 2000.5 (01/2000-) only	1 206 466	1

Special Tool(s)

	Flange Holding Wrench, Universal 205-072 (15-030A)

Labor Time

Operation Description	Operation No. / Time
Check Crankshaft Pulley And Read Belt Span	0.4 hours

Accessory Drive Belt, Crankshaft Pulley And Accessory Drive Belt Tensioner - Remove And Install	
Mondeo 2001	additional 1.1 hours
Transit 2000.5	additional 0.7 hours
Engine Undershield - Remove And Install	21 130 4

Repair/Claim Coding	
Causal Part:	Finis code of the crankshaft pulley
ACES Condition Code:	D9
OASIS	703100, 703200

Production Action

A revised crankshaft pulley has been installed in production to all 2.0L/2.2L Duratorq-TDCi (Puma) diesel since 11.01.2005 (build code 5J).

Service Instruction

See Summary.

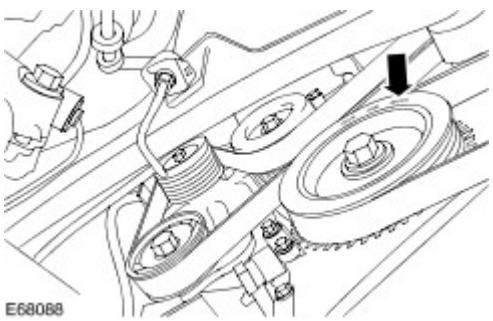
Check the affected crankshaft pulley



1. Raise and support the vehicle. For additional information, refer to Mondeo 2001, Transit 2000.5 Workshop Manual Section 100-02.

- Remove the front wheel and tire.

2. Remove the splash shield (Mondeo 2001 shown).



3. Examine the front face of the crankshaft pulley to identify the part number.

• NOTE: The part number is stamped on the part with the prefix and suffix only i.e. 4C1Q C1A or 4C1Q C1B. Only crankshaft pulleys with part number 4C1Q-6B319-C1A or C1B are affected.

- Rotate the engine until the part number of the crankshaft pulley is visible.
- If the crankshaft pully is affected , go to next step.
- If the crankshaft pully is NOT affected , check for other reasons of the drumming noise.

4. Start the engine.

5. NOTE: The belt will never be completely steady during normal operation and may be seen to continuously vibrate up to 5 mm, at the centre of the belt span.

Observe the accessory drive belt span between the crankshaft pulley and compressor pulley, during engine at idle. Belt flap can be determined by the amount of flap seen at the centre of the span i.e. 10 - 40 mm of amplitude, at the same time that you hear the drumming noise. This

maybe constant or phase in and out over a period of several seconds.

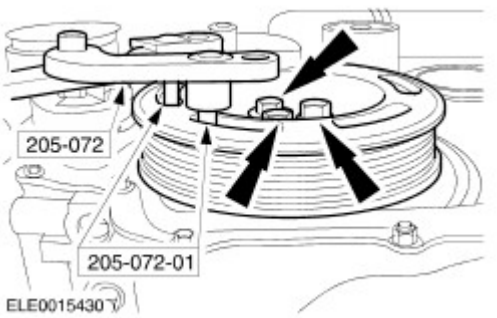
- Go to next step.

Install a new crankshaft pulley, accessory drive belt tensioner and accessory drive belt

1. NOTE: For Transit 2000.5 (01/2000-) the generator has to be removed to get access to the accessory drive belt tensioner pivot screw. Remove the generator. For additional information, refer to Transit 2000.5 (01/2000-) Workshop Manual Section 414-02, Generator and Regulator.
Remove the accessory drive belt. For additional information, refer to Mondeo 2001 (10/2000-); Transit 2000.5 (01/2000-) Workshop Manual Section 303-05.

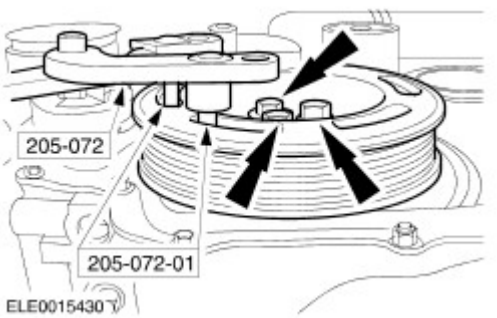
- All parts removed should be sent back to the Parts Recall Center for further investigation.

2. Using the special tool, remove the crankshaft pulley.



3. Using the special tool, install a new crankshaft pulley (see Parts Required).

- Tighten the screws in two stages.
- Stage 1: 30 Nm.
- Stage 2: 95 degrees.



4. Install a new accessory drive belt tensioner and accessory drive belt (see Parts Required). For additional information, refer to Mondeo 2001 (10/2000-); Transit 2000.5 (01/2000-) Workshop Manual Section 303-05.