Year

2/95-01

Engine Code:

AAB, AJA

Replacement Interval Guide

Volkswagen recommend check & adjust every 40,000 miles (replace if necessary) and replacement every 80,000 miles.

The previous use and service history of the vehicle must always be taken into account, Refer to Timing Belt Replacement Intervals at the front of this manual.

Check For Engine Damage

CAUTION: This engine has been identified as an INTERFERENCE engine in which the possibility of valve-to-piston damage in the event of a timing belt failure is MOST LIKELY to occur.

A compression check of all cylinders should be performed before removing the cylinder head.

Repair Times - hrs

Remove & install

3.70

Special Tools

- Injection pump sprocket locking pin No.2064.
- Camshaft setting bar No.2065A.
- Crankshaft damper holding tool No.T10025.
- Sprocket helding tool No.3036
- Tension gauge No.210.
- Tensioner pulley spanner No.3355.

Special Precautions

- Disconnect battery earth lead.
- DO NOT turn crankshaft or camshaft when tirning belt
- Remove glow plugs to ease turning engine.
- Turn engine in normal direction of rotation (unless otherwise stated).
- DO NOT turn engine via camshaft or other sprockets.
- Observe all tightening torques.
- Check diesel injection pump timing after belt replacement.

Removal

- 1. Remove:
 - Engine undershield.
 - Auxiliary drive belt.
 - ☐ Radiator grille.
- 2. Remove bonnet lock platform bolts and hinge platform and radiator forward.
- 3. Remove:
 - Auxiliary drive belt.
 - ☐ Injection pump belt cover.
- Cylinder head cover.
- Timing belt upper cover II.
- 4. Turn crankshaft clockwise to TDC on No.1 cyfinder.

- 5. Ensure timing marks aligned 4. Ensure injection pump sprocket timing mark aligned 3.
- 6. Lock injection pump sprocket. Use tool No.2064 5
- 7. Hold camshaft rear sprocket. Use tool No.3036. Remove bolt 6.
- 8. Remove camshaft rear sprocket and injection pump belt.
- 9. Lock crankshaft damper. Use tool No.T10025
- 10. Remove crankshaft damper centre bolt 8.
- 11. Ensure crankshaft at TDC on No.1 cylinder 4.
- 12. Remove:
 - ☐ Crankshaft damper bolts (4 bolts) ☑.
 - Crankshaft damper 10.
 - ☐ Timing belt lower cover ②.
- 13. Fit setting bar No.2065A to rear of camshaft III. Centralise camshaft using feeler gauges.
- 14. Slacken tensioner bolt III. Turn tensioner away from belt. Use tool No.3355 El. Lightly tighten bolt.
- 15. Remove timing belt,

NOTE: Mark direction of rotation on beit with chalk if belt is to be reused.

Installation

- 1. Ensure crankshaft at TDC on No.1 cylinder 4.
- 2. Ensure camshaft setting bar fitted correctly III.
- 3. Slacken camshaft sprocket bolt 1/2 turn El. Tap sprocket from behind to loosen it from taper. NOTE: Sprocket should turn freely on taper but not tilt.
- 4. Fit timing belt in anti-clockwise direction, starting at crankshaft sprocket. Ensure belt is taut between sprockets.
- 5. Slacken tensioner bolt 12.
- 6. Turn tensioner pulley slowly clockwise until right edge of pointers aligned IE & IE. Use tool No.3355 III.
- 7. If tensioner pulley turned too far: Turn fully anticlockwise and repeat tensioning procedure. NOTE: To prevent tensioner damage, right edge of pointer & should not go past right edge of pointer E during adjustment.
- 8. Tighten tensioner bolt to 20 Nm 12.
- 9. Ensure timing marks aligned 4.

10.9 - 100 Nm.

10. Hold camshaft front sprocket. Use tool No.3036. Tighten bolt to specified torque 13. NOTE: Check marking on camshaft sprocket boit head for correct torque setting. 8.8 - 85 Nm.



