FIAT

Model:	Coupe 2,0 16V • Coupe 2,0 16V Turbo • Tipo 2,0 16V
Year:	1993-98
Engine Code:	836 A3.000, 175 A1.000

Replacement Interval Guide

Fiat recommend check & replacement if necessary every 36,000 miles and replacement every 63,000 miles.
The previous use and service history of the vehicle must always be taken into account.
Refer to General Instructions 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:

Coupe	3,15
Tipo	2,75

Special Tools

- Flywheel locking tool - No.1860771000.
- Tensioning tool - No.1860745100.
- Timing belt adaptor tool - No.1860745200.
- Balancer shaft belt adaptor tool - No.1860745400.
- Crankshaft sprocket adaptor - No.1860768000.

Special Precautions

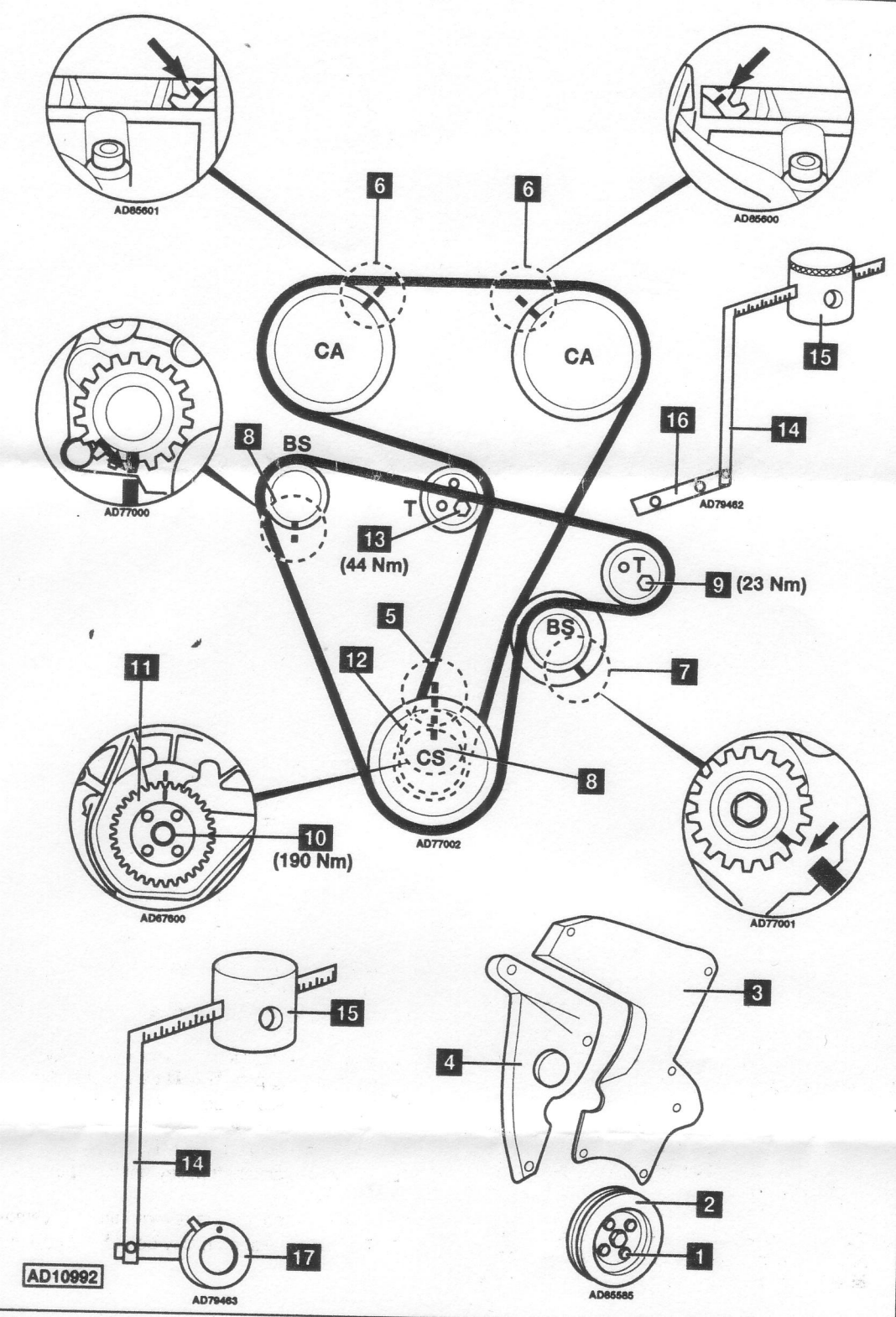
- Disconnect battery earth lead.
- Do NOT turn crankshaft or camshaft when timing belt removed.
- Remove spark or glow plugs to ease turning engine.
- Turn engine in normal direction of rotation (unless otherwise stated).
- Do NOT turn engine via camshaft or other sprockets.
- Observe all tightening torques.

Removal

1. Raise and support front of vehicle.
2. Remove:
   - ❑ RH front wheel and inner wing panel.
   - ❑ Coolant reservoir.
   - ❑ Auxiliary drive belt(s).
   - ❑ Crankshaft pulley bolts 1.
   - ❑ Crankshaft pulley 2.
   - ❑ Water pump pulley.
   - ❑ Spark plug lead cover.
   - ❑ Coolant pipe support.
3. Disconnect engine steady bar and remove timing belt covers 3 & 4.
4. Turn crankshaft clockwise to TDC on No.1 cylinder, check crankshaft sprocket timing marks aligned 5.
5. Check camshaft timing marks on rear of sprockets aligned 6.
6. Check balancer shaft timing marks 7 & 8 aligned.
7. Remove bell housing cover plate and install flywheel locking tool No.1860771000.
8. Slacken balancer shaft belt tensioner locknut 9 and remove belt.
9. Undo and remove crankshaft sprocket bolt 10.
   NOTE: Crankshaft sprocket bolt has LH thread.
10. Remove balancer belt crankshaft sprocket 11.
11. Check timing belt crankshaft sprocket timing mark aligned 12.
12. Slacken timing belt tensioner locknut 13 and remove timing belt.
    NOTE: Mark direction of rotation on belts with chalk if belts are to be reused.

Installation

1. Ensure timing marks 12 & 6 aligned.
2. Install timing belt in an anti-clockwise direction starting at crankshaft sprocket, keeping belt taut between sprockets.
3. Fit tensioning tool and adaptor No.1860745100/200 14 & 16 to tensioner pulley, with arm horizontal.
4. Set weight 15 on arm of tool at 100 mm mark.
5. Remove flywheel locking tool No.1860771000 and fit tool No.1860768000 to crankshaft sprocket.
6. Using tool No.1860768000, turn crankshaft two turns clockwise to No.1 cylinder at TDC, check timing marks 12 & 6 aligned.
   NOTE: Tensioner tool arm should remain horizontal during tensioning procedure, if not, reset arm and repeat procedure.
7. Tighten tensioner bolt 13 to 44 Nm and remove tensioning tool.
8. Re-install flywheel locking tool No.1860771000 and remove crankshaft sprocket adaptor No.1860768000.
9. Fit balancer shaft belt crankshaft sprocket 11 and retaining bolt 10.
10. Tighten bolt to 190 Nm.
11. Ensure crankshaft at TDC on No.1 cylinder 5 and balancer shaft timing marks 7 & 8 aligned.
12. Install balancer shaft belt and fit tensioning tool and adaptor 1860745100/400 14 & 17 to tensioner pulley with arm horizontal.
13. Set weight 15 on arm at 205 mm mark.
14. Remove flywheel locking tool and turn crankshaft two turns clockwise to No.1 cylinder at TDC, check all timing marks align 5, 6, 7 & 8.
    NOTE: Tensioner tool arm should remain horizontal during tensioning procedure, if not, reset arm and repeat procedure.
15. Tighten balancer shaft belt tensioner nut 9 to 23 Nm.
16. Remove tensioning tool from tensioner.
17. Install components in reverse order of removal.
18. Tighten crankshaft pulley bolts 1 to 25 Nm.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