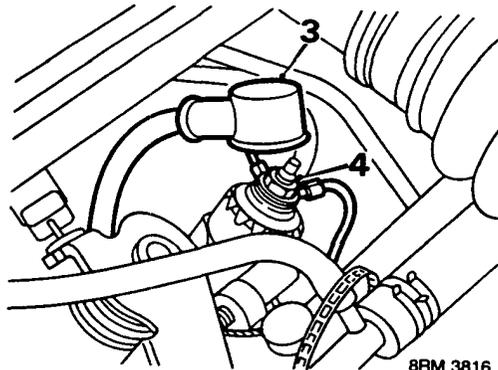
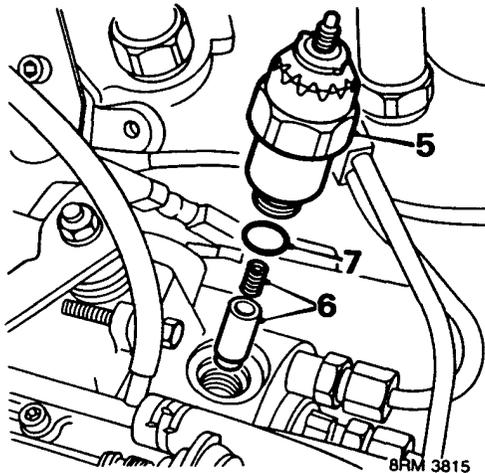


Fuel system



8RM 3816

3. Release cover from solenoid terminal nut.
4. Remove solenoid terminal nut; disconnect 2 leads from terminal.



8RM 3815

5. Unscrew solenoid from fuel injection pump.
6. Remove solenoid plunger and spring.
7. Discard 'O' ring.

Refit

1. Thoroughly clean solenoid, plunger, spring and mating surface of fuel injection pump.
2. Lubricate a new 'O' ring with diesel fuel and fit to solenoid.
3. Fit solenoid plunger and spring to solenoid.
4. Fit solenoid to fuel injection pump and tighten.
5. Connect 2 leads to solenoid terminal, fit and tighten nut; secure terminal cover.
6. *Non - Turbo Models:* Connect hose to air cleaner and air box; tighten hose clips.
7. *Non - Turbo Models:* Position hose to air box; connect hose and tighten clip.

FUEL INJECTION PUMP

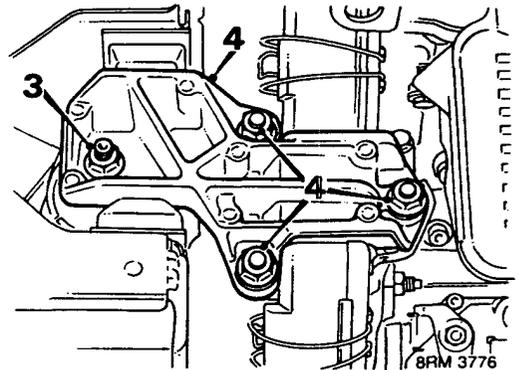
Remove

1. Raise front of vehicle.

WARNING: Support on safety stands.

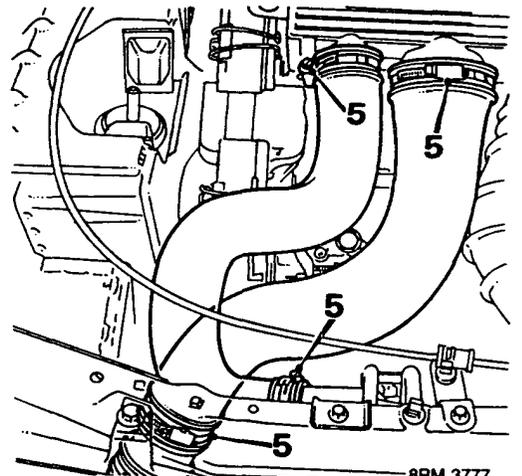
2. Position trolley jack beneath sump, raise jack to support engine.

CAUTION: Use a block of wood or hard rubber pad to protect sump.



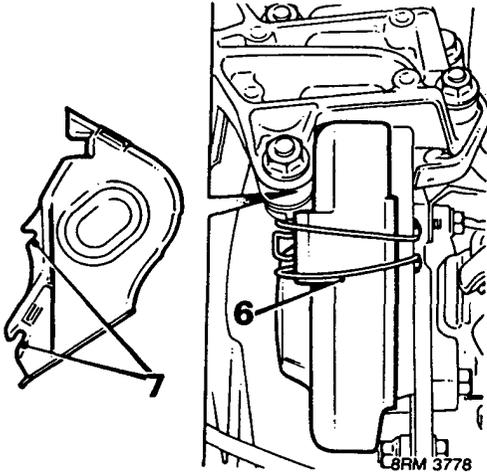
8RM 3776

3. Remove nut securing engine R.H. mounting bracket to mounting rubber.
4. Remove 3 nuts securing engine R.H. mounting bracket to engine; remove bracket.

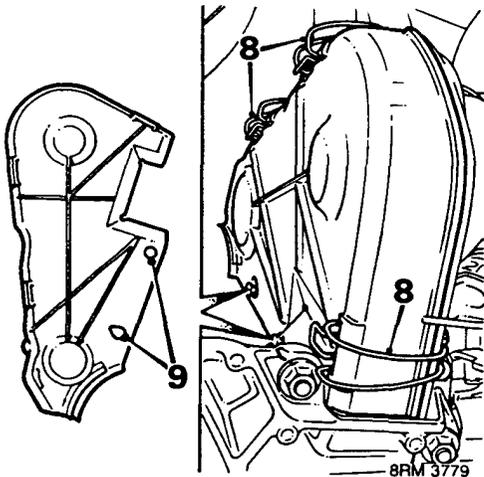


8RM 3777

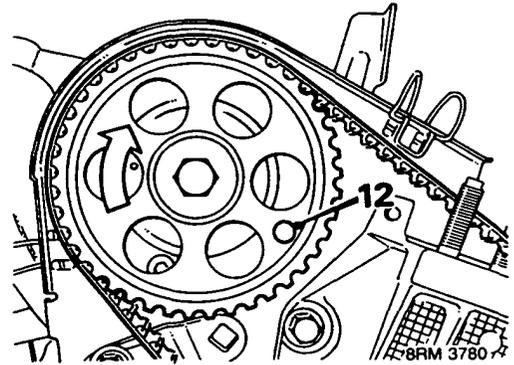
5. *Turbo Models:* Slacken 4 clips, disconnect hoses from air box, intercooler and intercooler adaptor.



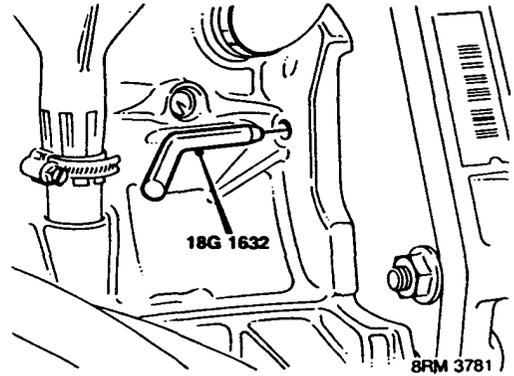
6. Release clip securing front portion of timing belt top cover to backplate.
7. Release front portion of timing belt top cover from locating pegs.



8. Release 3 clips securing rear portion of timing belt top cover to backplate.
9. Release rear portion of timing belt top cover from locating pegs and bottom cover.
10. Remove starter motor, see **ELECTRICAL - Repairs**.
11. Lower engine to gain access to crankshaft pulley bolt.

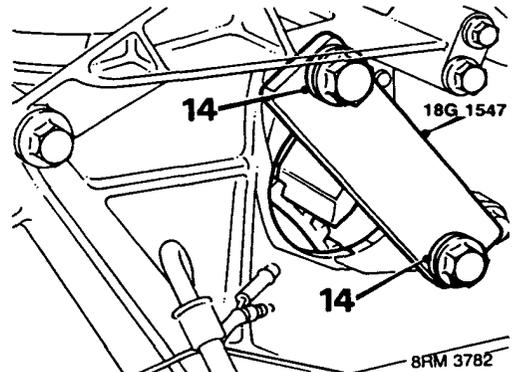


12. Using a socket and extension bar on crankshaft pulley bolt, rotate engine in a clockwise direction (viewed from crankshaft pulley) until timing pin hole in camshaft gear is aligned with hole in cylinder head.



13. Fit timing pin 18G 1632 to hole in flywheel.

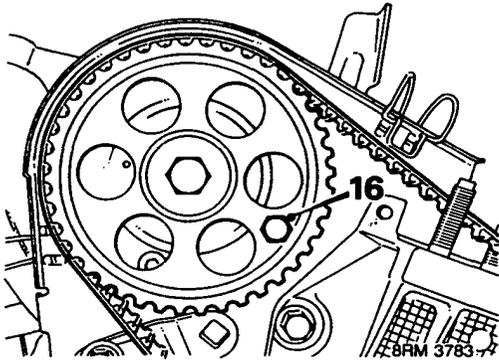
Note: If timing pin hole in flywheel cannot be located, rotate crankshaft through a further 180° to bring No. 4 piston to T.D.C. (compression); fit timing pin.



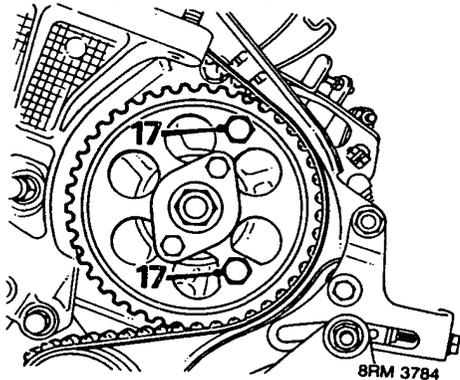
14. Fit a plain washer to each bolt of tool 18G 1547.

15. Lock flywheel using tool 18G 1547.

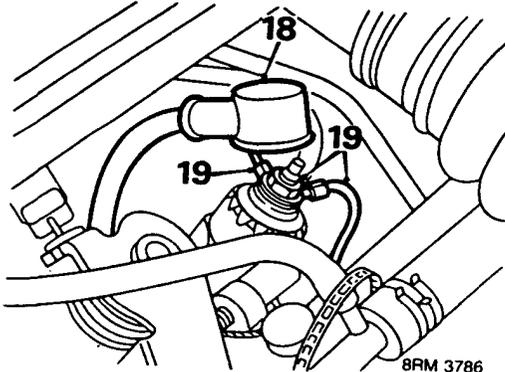
Fuel system



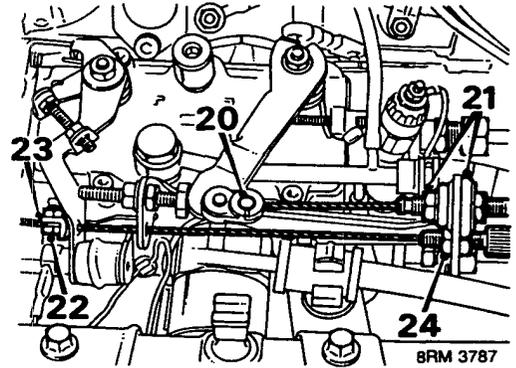
16. Insert an M8 bolt through timing pin hole in camshaft gear; hand tighten bolt.



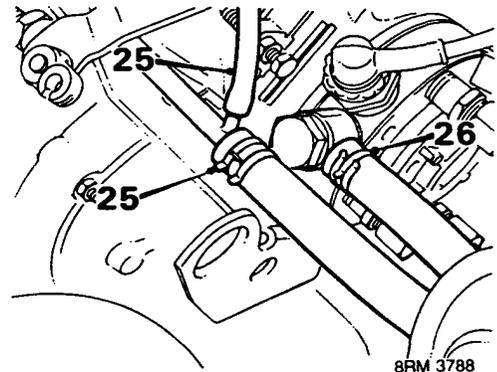
17. Insert 2 M8 bolts through timing pin holes in fuel injection pump gear into fuel injection pump bracket and hand tighten bolts.



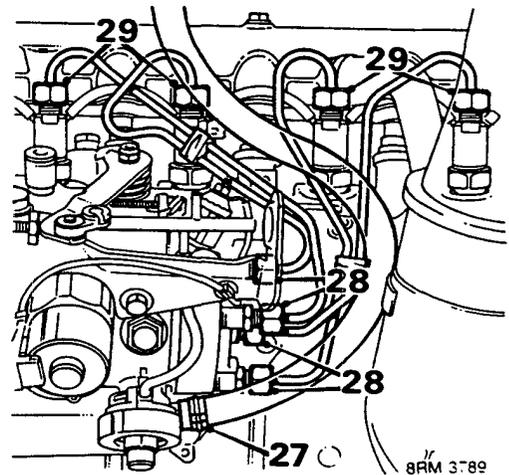
18. Release cover from fuel cut - off solenoid terminal nut.
19. Remove fuel cut - off solenoid terminal nut; disconnect 2 leads from terminal.



20. Release throttle inner cable from fuel injection pump throttle lever.
21. Slacken locknut securing throttle outer cable, release grommet; move cable aside.
22. Slacken fast idle cable stop screw.
23. Remove stop from fast idle cable.
24. Slacken locknut on fast idle cable adjuster; release fast idle cable from fuel injection pump.



25. Disconnect spill return hoses from fuel injection pump.
26. Release clip, disconnect fuel pipe from fuel injection pump banjo.



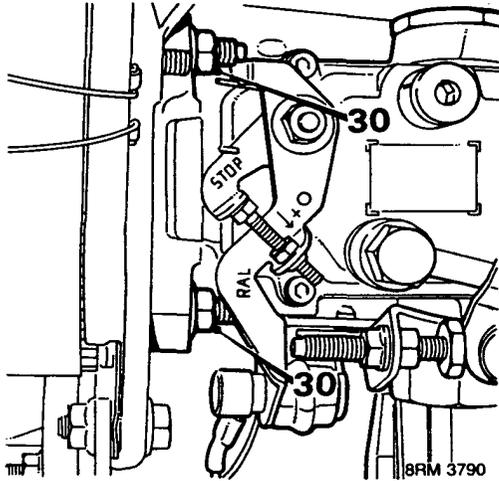
27. Release clip, disconnect fuel pipe from fuel injection pump.

CAUTION: Plug the connections.

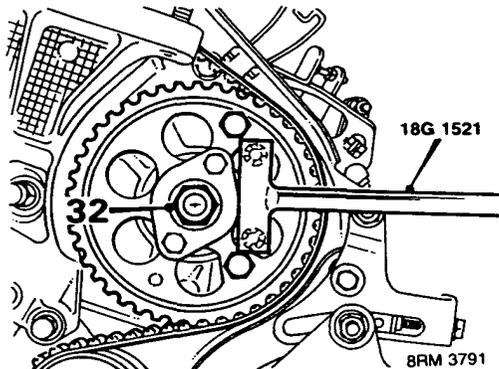


28. Disconnect 4 unions, release injector pipes from fuel injection pump.
29. Disconnect 4 unions, release injector pipes from injectors.

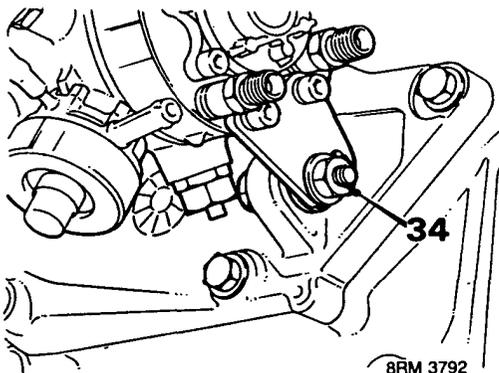
CAUTION: Plug the connections.



30. Remove 3 nuts securing fuel injection pump to front mounting bracket.



31. Position tool 18G 1521 to fuel injection pump gear.
32. Restrain gear using tool 18G 1521 and unscrew nut securing gear.
33. Remove tool 18G 1521.



34. Remove nut and bolt securing fuel injection pump to rear mounting bracket; remove pump.
35. Recover Woodruff key from pump drive shaft.

Refit

1. Thoroughly clean fuel injection pump mounting brackets, both portions of timing belt top cover, locating pegs and mating faces of top cover backplate and bottom cover.
2. Fit Woodruff key to fuel injection pump drive shaft.
3. Position fuel injection pump to mounting brackets, at the same time aligning Woodruff key to pump gear.
4. Fit but do not tighten pump securing nuts and bolt.

Note: Nuts are tightened after fuel injection pump timing has been adjusted.

5. Position tool 18G 1521 to fuel injection pump gear, restrain gear using 18G 1521 and tighten nut to pull injection pump on to gear; check nut is tightened to 50 Nm.
6. Position injector pipes to fuel injection pump and injectors, connect but do not tighten unions.

Note: Unions are tightened after fuel injection pump timing has been adjusted.

7. Connect fuel and spill return pipes; tighten clips.
8. Position fast idle cable to fuel injection pump, fit cable stop to inner cable and tighten cable stop screw.
9. Position throttle cable to bracket, fit grommet and connect inner cable to throttle lever.
10. *Turbo Models:* Connect air box hoses to intercooler and adaptor; tighten clips.
11. Connect leads to fuel cut-off solenoid terminal; fit and tighten terminal nut and secure cover.
12. Slacken but do not remove timing belt tensioner bracket locking bolt and pivot nut; allow tensioner to operate.
13. Tighten locking bolt and pivot nut to 15 Nm.
14. Remove M8 bolts from camshaft and fuel injection pump gears.
15. Remove flywheel locking tool 18G 1547 and timing pin 18G 1632.
16. Rotate engine in a clockwise direction (viewed from crankshaft pulley) 2 complete turns.
17. Fit timing pin 18G 1632 to flywheel, lock camshaft and fuel injection pump gears using 3 M8 bolts.
18. Slacken but do not remove timing belt tensioner locking bolt and pivot nut; allow tensioner to operate.
19. Tighten locking bolt and pivot nut to 15 Nm.