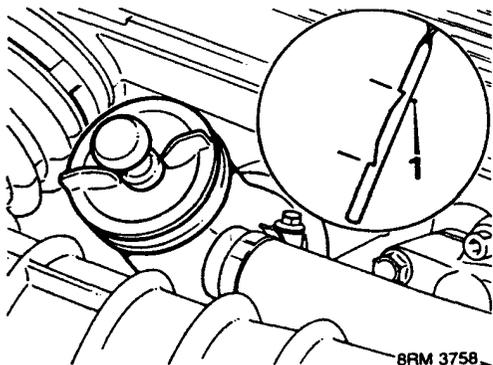




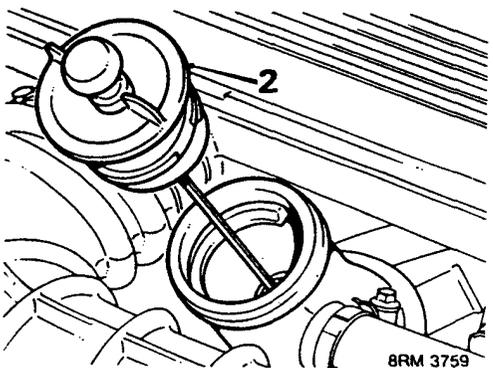
ENGINE OIL AND FILTER

Oil level check

Always check oil level and drain oil with vehicle standing on level ground and use oil of correct specification for topping up and refilling.



1. Withdraw dipstick and wipe blade.
Re - insert dipstick fully, withdraw it and check oil level which must be maintained between minimum and maximum marks on dipstick.



2. If required, unscrew oil filler cap and top up oil to correct level.
3. Fit oil filler cap.

Oil drain and refill

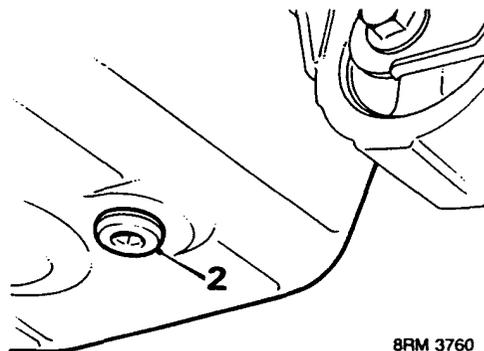
Oil should always be drained when engine is warm.

WARNING: After engine has been run, exhaust pipes will be hot; take care when working in this area. Observe due care when draining oil as oil can be very hot.

Prolonged and repeated contact with used engine oil may cause serious skin disorders, wash hands thoroughly after contact.

Keep engine oil out of reach of children.

1. Place a suitable container beneath sump.



2. Remove drain plug, allow oil to drain.
3. Fit drain plug and tighten to 30 Nm.
4. Unscrew oil filler cap, fill engine to correct level on dipstick with new engine oil of correct specification; fit oil filler cap.
5. Remove container.

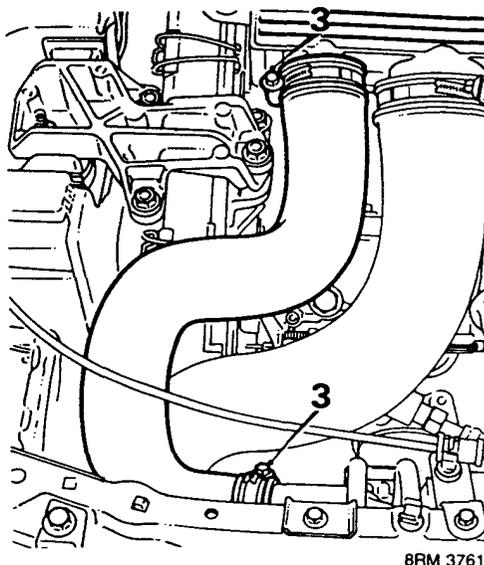
Oil filter - Turbo Models

Renew

1. Raise front of vehicle.

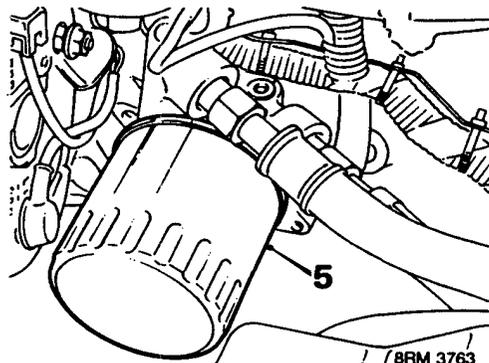
WARNING: Support on safety stands.

2. Position suitable container beneath oil filter.



3. Slacken 2 clips, disconnect hose from air box and intercooler.
4. Thoroughly clean area in vicinity of filter head.

Maintenance - Engine



5. Remove and discard filter.

CAUTION: Filters with RED lettering on body are fitted in production and must be replaced at first service by a filter with WHITE lettering on body.

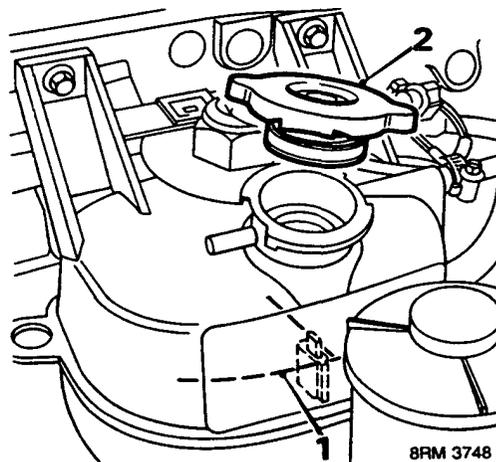
6. Smear sealing ring of new filter with new engine oil.
7. Fit filter; tighten by hand.
8. Remove stand(s) and lower vehicle.
9. Connect hose to air box and intercooler; tighten clips.
10. Refill/top - up engine with oil of correct specification.
11. Run engine and check for oil leaks.
12. Stop engine, wait one minute then check oil level and top - up if necessary with new engine oil.
13. Remove container from beneath oil filter.

COOLING SYSTEM

WARNING: Since injury such as scalding could be caused by escaping steam or coolant, do not remove pressure relief cap from expansion tank while system is hot. Wait until system has cooled, use a cloth or glove to protect hands from escaping steam.

Check level and top up.

Note: The coolant level should only be checked when the system is cold.



1. Visually check that coolant is level with 'MAX' mark on coolant expansion tank.

CAUTION: If coolant is not visible in expansion tank, refill system in accordance with refilling procedure.

2. If required, remove expansion tank cap and top - up system with anti - freeze mixture using Unipart Superplus Anti - freeze and Summer Coolant and water.

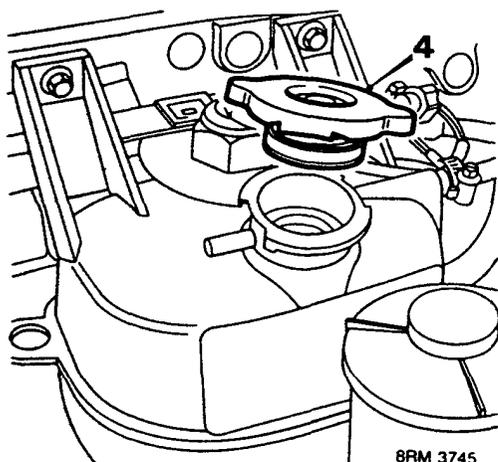
CAUTION: Coolant level must not be above 'MAX' mark on expansion tank.

3. Check specific gravity of coolant. Overall anti - freeze concentration must not fall below 50% by volume and must not exceed 60% by volume.
4. Fit expansion tank cap.

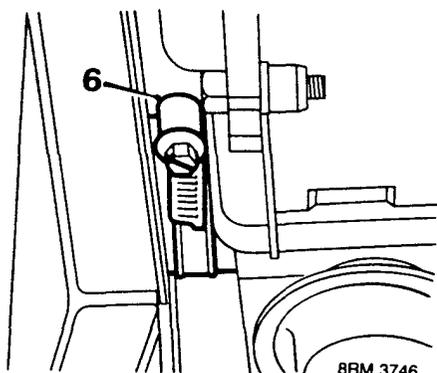
Solution	Amount of anti - freeze	Commences freezing		Frozen solid	
		°C	°F	°C	°F
50%	Litres				
All Models	4.0	-36	-33	-48	-53

Drain and refill

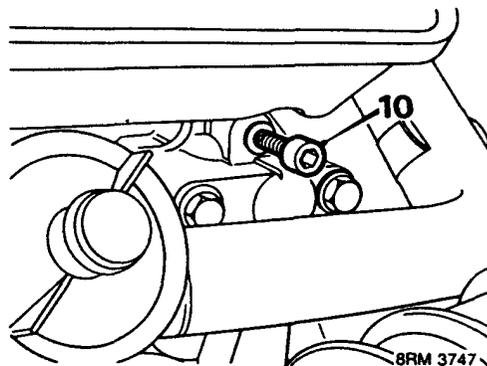
1. Visually check engine and cooling system for coolant leaks.
2. Examine hoses for signs of cracking, distortion and security of connections; rectify as necessary.
3. Position heater control to 'HOT' position.



4. Remove expansion tank cap.
5. Position suitable container beneath radiator bottom hose.



6. Slacken clip, disconnect bottom hose from radiator and drain coolant into container.
7. Connect bottom hose to radiator; tighten clip.
8. Prepare coolant to required concentration.
9. Ensure heater control is at 'HOT' position.



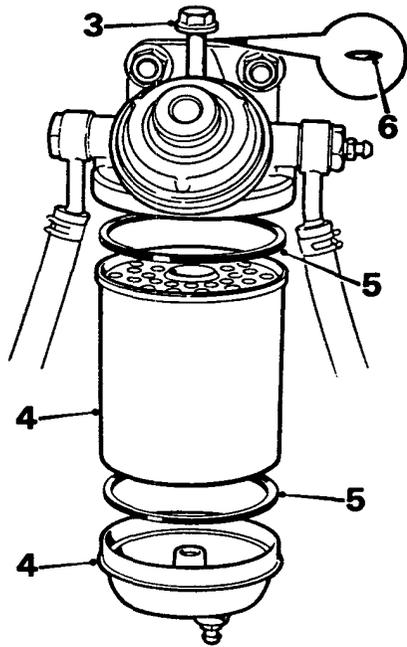
10. Slacken bleed screw on thermostat housing.
11. Fill system through expansion tank filler.
12. Tighten bleed screw when air - free coolant flows.
13. Continue filling system until coolant level is to bottom of expansion tank filler neck.
14. Fit expansion tank cap.
15. Start engine and run at 2000 rev/min until cooling fan operates.
16. Stop engine and allow it to cool.
17. Check cooling system for leaks.
18. Check coolant level and if necessary, top - up to 'MAX' mark on expansion tank.

FUEL FILTER ELEMENT

Renew

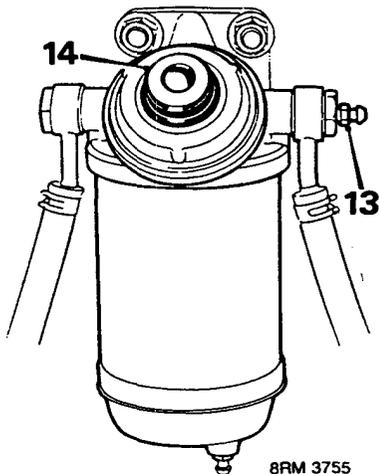
1. Position suitable container beneath fuel filter.
2. Thoroughly clean area in vicinity of filter head.

Maintenance - Engine



8RM 3754

3. Remove bolt securing filter element and filter base to filter head.
4. Remove filter element from filter base; discard element.
5. Discard 2 sealing rings.
6. Remove and discard 'O' ring from securing bolt.
7. Thoroughly clean filter and sealing ring recess in filter head.
8. Lubricate new 'O' ring with clean fuel and fit to securing bolt.
9. Lubricate 2 new sealing rings with clean fuel and fit to filter base and recess in filter head.
10. Fit new filter element to filter base.
11. Position filter element and base to filter head.
12. Fit securing bolt and tighten to 9 Nm.

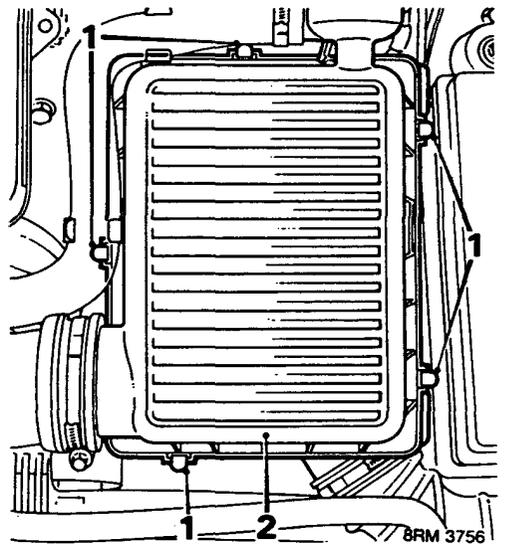


8RM 3755

13. Slacken bleed screw.
14. Depress priming button several times until fuel, issuing from bleed screw is free from air bubbles; tighten bleed screw.
15. Continue to operate priming button until resistance is felt.
16. Remove container.

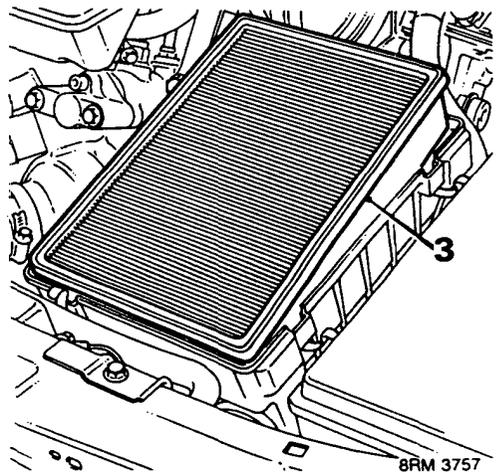
AIR CLEANER ELEMENT

Remove



8RM 3756

1. Release 5 clips securing air cleaner cover.
2. Release air cleaner cover from air cleaner.



8RM 3757

3. Remove air cleaner element.

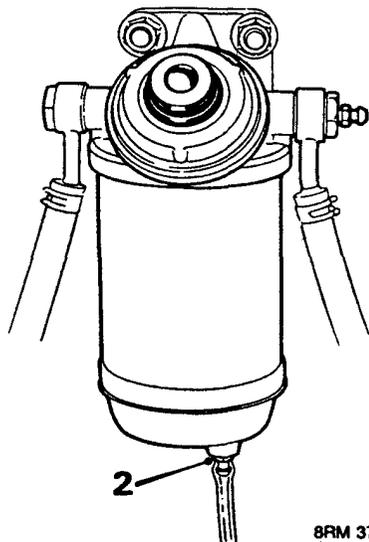
Refit

1. Thoroughly clean air cleaner and cover.
2. Position element in air cleaner.
3. Fit air cleaner cover and secure clips.



FUEL FILTER - SEDIMENT DRAIN

1. Position suitable container beneath fuel filter.



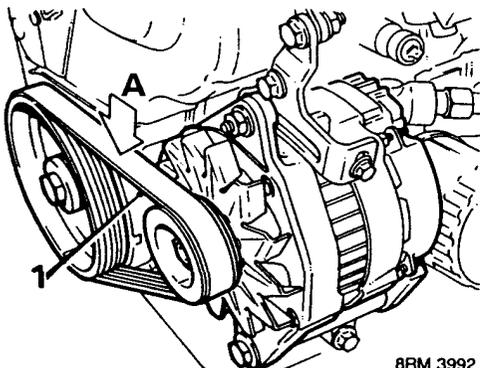
8RM 3751

2. Slacken drain screw and allow filter to drain until fuel, free from water and sediment flows from filter; tighten screw.
3. Remove container.
4. Bleed fuel system - see Fuel filter element.

DRIVE BELTS

1. Check condition of alternator, brake servo vacuum pump and power steering drive belts; renew any belt showing signs of splitting, oil contamination or wear.

Check tension of alternator drive belt.



8RM 3992

1. Apply a force of 10 kg to alternator drive belt at position 'A' and measure belt deflection.

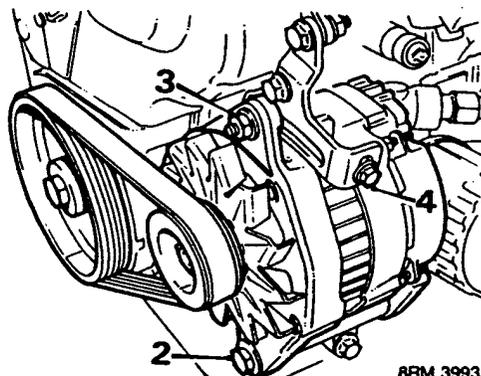
New belt deflection = 5.5 to 6.5 mm

Used belt deflection = 7.8 to 8.5 mm

Adjust tension of alternator drive belt.

1. Raise front R.H. side of vehicle.

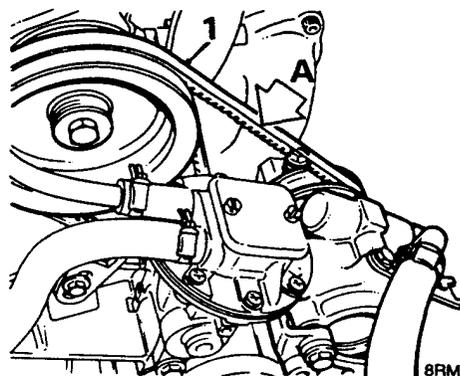
WARNING: Support on safety stands.



8RM 3993

2. Slacken alternator pivot bolt.
3. Slacken adjusting link nut.
4. Adjust drive belt tension by means of adjusting bolt.
5. Tighten adjusting link nut and pivot bolt to 35 Nm.
6. Remove stand(s) and lower vehicle.

Check tension of power steering pump drive belt.



8RM 3994

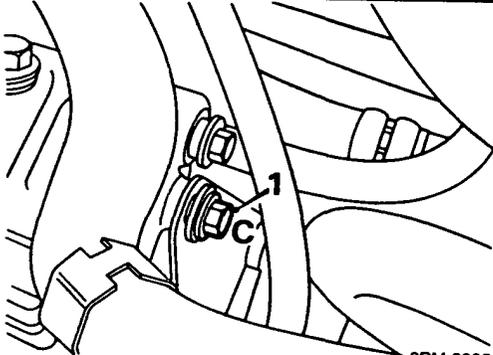
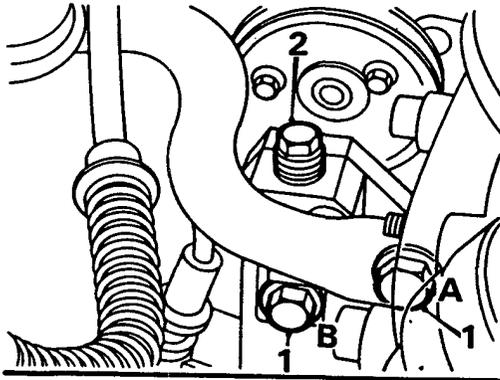
1. Apply a force of 10 kg to power steering pump drive belt at position 'A' and measure belt deflection.

New belt deflection = 7.0 to 8.0 mm

Used belt deflection = 9.0 to 10.0 mm

Maintenance - Engine

Adjust tension of power steering pump drive belt.



1. Slacken 3 bolts securing power steering pump.
2. Adjust drive belt tension by means of adjusting bolt.
3. Tighten power steering pump securing bolts to:

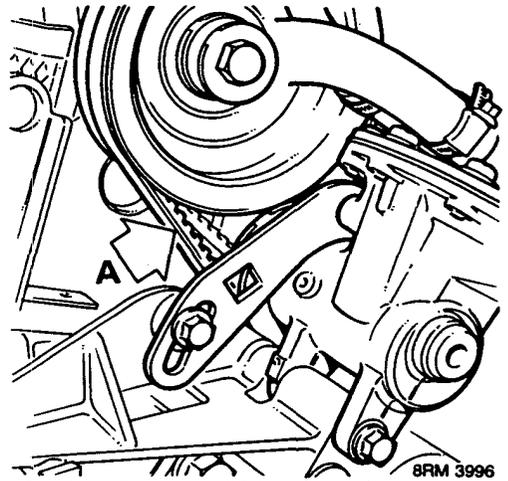
Bolt A - 55 Nm.

Bolt B - 45 Nm

Bolt C - 25 Nm

4. Using a socket and extension bar on crankshaft pulley bolt, turn engine 3 revolutions in a clockwise direction (viewed from crankshaft pulley).
5. Check drive belt tension; re-adjust if necessary.

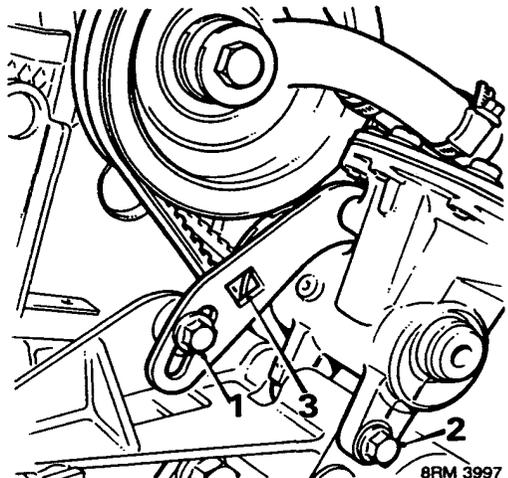
Check tension of brake servo vacuum pump drive belt.



1. Apply a force of 10 kg to brake servo vacuum pump drive belt at position 'A' and measure belt deflection.

New or used belt deflection 5.5 to 6.5 mm.

Adjust tension of brake servo vacuum pump drive belt.



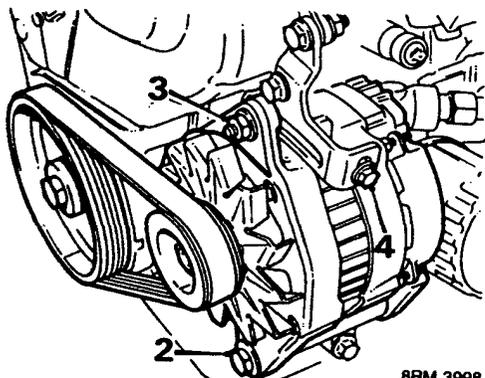
1. Slacken drive belt adjustment bolt.
2. Slacken vacuum pump pivot bolt.
3. Using a wrench and 1/2 in square drive socket extension located in hole in vacuum pump mounting bracket, move pump to adjust drive belt tension. Maintain loading and tighten pivot bolt to 25 Nm and adjustment bolt to 82 Nm.
4. Remove socket extension.



Renew alternator drive belt.

1. Raise front R.H. side of vehicle.

WARNING: Support on safety stands.

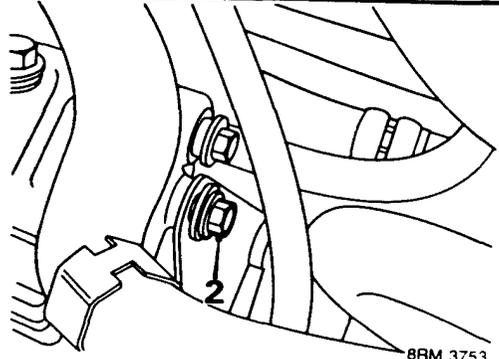
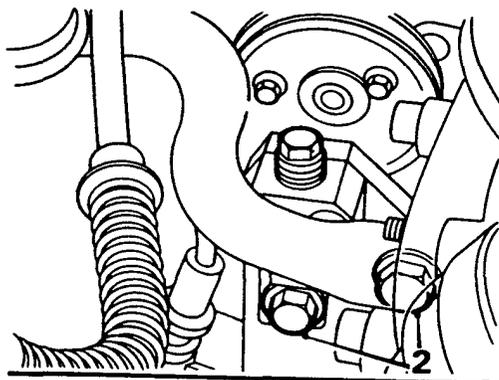


8RM 3998

2. Slacken alternator pivot bolt.
3. Slacken adjusting link nut.
4. Release drive belt tension by means of adjusting bolt; remove drive belt.
5. Clean pulley 'V's.
6. Fit drive belt to pulleys.
7. Adjust drive belt tension.
8. Remove stand(s) and lower vehicle.

Renew power steering pump drive belt.

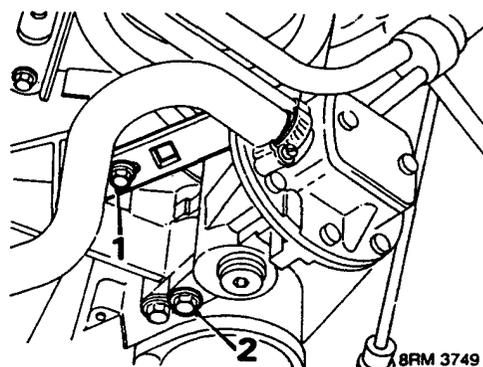
1. Remove brake servo vacuum pump drive belt.



8RM 3753

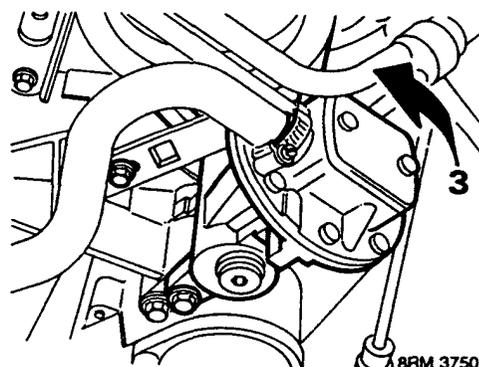
2. Slacken 3 bolts securing power steering pump; remove drive belt.
3. Clean pulley 'V's.
4. Fit drive belt to pulleys.
5. Adjust drive belt tension.
6. Fit brake servo vacuum pump drive belt.

Renew brake servo vacuum pump drive belt.



8RM 3749

1. Slacken drive belt adjustment bolt.
2. Slacken vacuum pump pivot bolt.



8RM 3750

3. Move vacuum pump towards mounting bracket; remove drive belt.
4. Clean pulley 'V's.
5. Fit drive belt to pulleys.
6. Adjust drive belt tension.