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SECTION: 303-03 (Cooling system - 26)

Discovery II - Change in Method of Radiator Removal

AFFECTED VEHICLE RANGE:

Discovery Series II (LT)

MARKETS:

All

CONDITION SUMMARY:

Situation: Change to Methods for Removal/Installation of Radiator

Cause: Methods engineers at Land Rover have recently studied the service process for removal and installation of the cooling system radiator for Discovery Series II models and significant process changes across models have been made. These changes refine and improve the process which allow the operation to be carried out more efficiently.

Action: Should it become necessary to remove a radiator on a Discovery Series II, please refer to the procedure detailed in this bulletin.

WARRANTY:



NOTE: Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to TOPIx to obtain the latest repair time.



NOTE: DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

DESCRIPTION	SRO	TIME
Radiator assembly (V8) renew to 2A999999	26.40.01	1.8 hours
Radiator assembly (V8) renew from 3A000001	26.40.01	1.5 hours
Radiator assembly (Td5) renew to 2A999999	26.40.01	1.9 hours
Radiator assembly (Td5) renew from 3A000001	26.40.01	1.6 hours



NOTE: Normal Warranty procedures apply.

SERVICE INSTRUCTION:

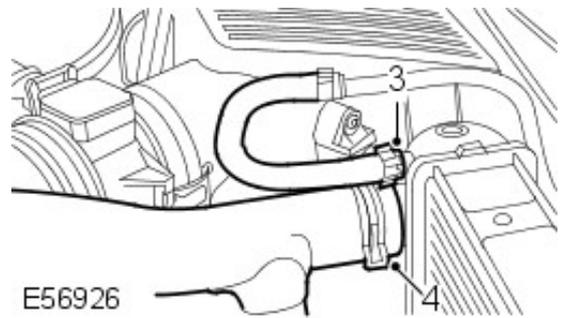


NOTE: Please note that Workshop Manual Cooling System V8 & TD5 Section, which these updated procedures relate to, will be updated at the next available opportunity.

Radiator assembly - renew - Land Rover Discovery Series II (LT) Td5 - Up to 03MY

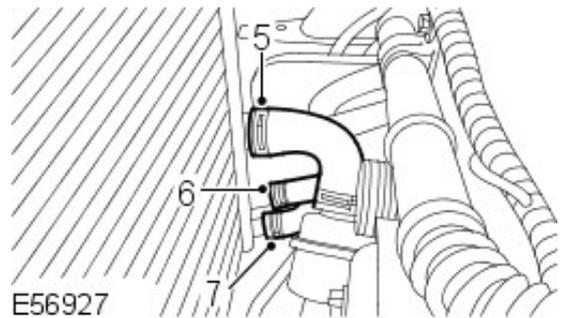
Remove 26.40.01

- 1 Drain coolant.
- 2 Remove intercooler.
- 3 Release clip and disconnect bleed hose from radiator.



4 Release clip and disconnect radiator top hose from radiator. Refer to Illustration in Step 3

5 Release clip and disconnect radiator bottom hose from radiator.



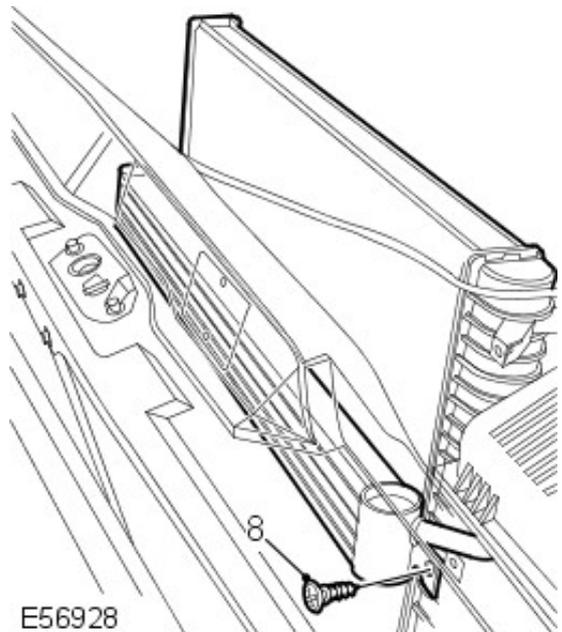
6 Release clip and disconnect coolant hose from engine oil cooler. Refer to Illustration in Step 5.

NOTE: Always install blanking plugs to open connections to prevent contamination.

7 Release clips and disconnect fuel hose from cooler. Refer to Illustration in Step 5.

NOTE: Always install blanking plugs to open connections to prevent contamination.

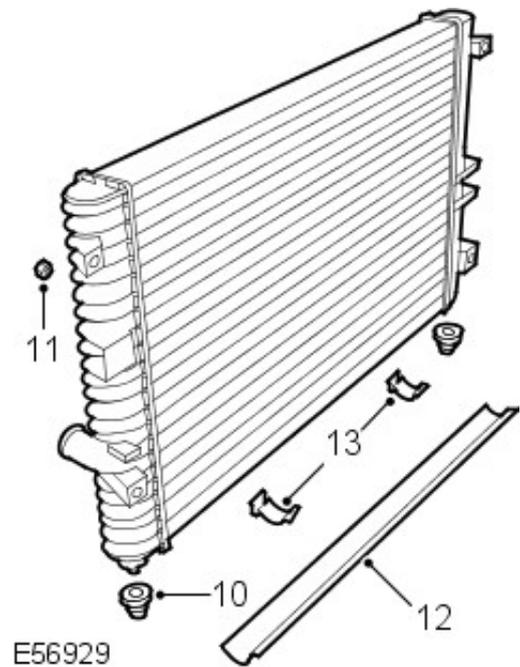
8 Remove screw securing transmission cooler to cooling pack. Move transmission cooler aside.



9 Release radiator from lower mountings and remove from vehicle.

NOTE: Do not carry out further disassembly if component is removed for access only.

10 Remove rubber mountings from base of radiator.



- 11** Remove two captive nuts from radiator. Refer to Illustration in Step 10.
- 12** Remove sealing strip from radiator. Refer to Illustration in Step 10.
- 13** Remove two cowl retaining clips from radiator. Refer to Illustration in Step 10.

Install

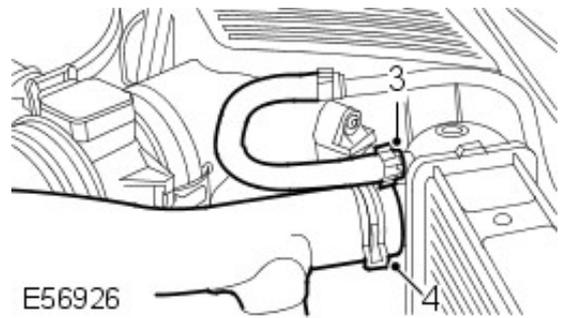
- 14** Install two cowl retaining clips to radiator.
- 15** Install sealing strip to radiator.
- 16** Install two captive nuts to radiator.
- 17** Install rubber mountings to radiator.
- 18** Install radiator and engage lower mountings in chassis.
- 19** Install and secure transmission fluid cooler to cooling pack.
- 20** Remove blanking plugs.
- 21** Ensure connections are clean and connect fuel hose to cooler.
- 22** Remove blanking plugs.
- 23** Ensure connections are clean and connect coolant hose to engine oil cooler.
- 24** Connect top and bottom hoses to radiator and secure.
- 25** Connect bleed hose to radiator and secure.
- 26** Install intercooler.
- 27** Fill and bleed cooling system.

SERVICE INSTRUCTION:

Radiator assembly - renew - Land Rover Discovery Series II (LT) Td5 - From 03MY

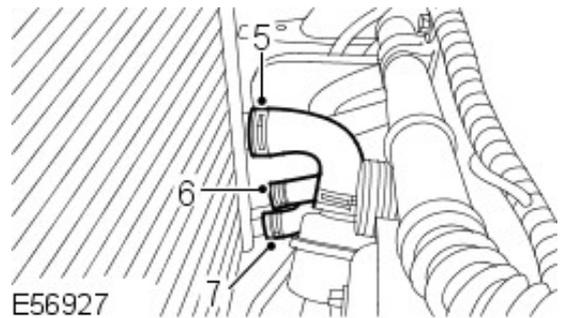
Remove 26.40.01

- 1** Drain coolant.
- 2** Remove intercooler.
- 3** Release clip and disconnect bleed hose from radiator.



4 Release clip and disconnect radiator top hose from radiator. Refer to Illustration in Step 3

5 Release clip and disconnect radiator bottom hose from radiator.



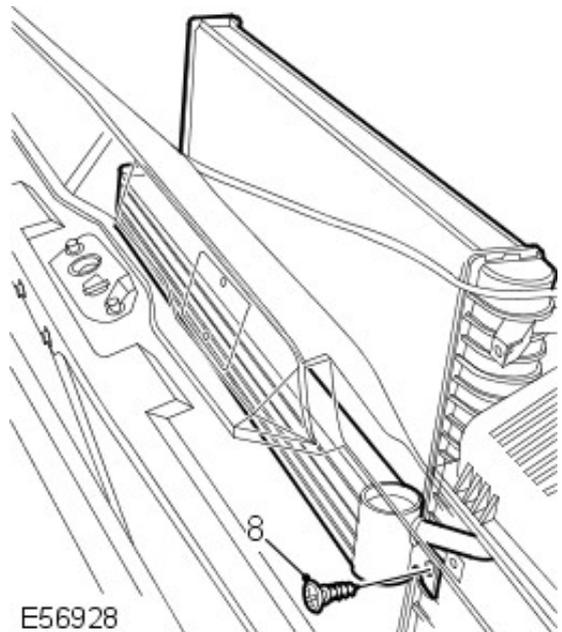
6 Release clip and disconnect coolant hose from engine oil cooler. Refer to Illustration in Step 5.

NOTE: Always install blanking plugs to open connections to prevent contamination.

7 Release clips and disconnect fuel hose from cooler. Refer to Illustration in Step 5.

NOTE: Always install blanking plugs to open connections to prevent contamination.

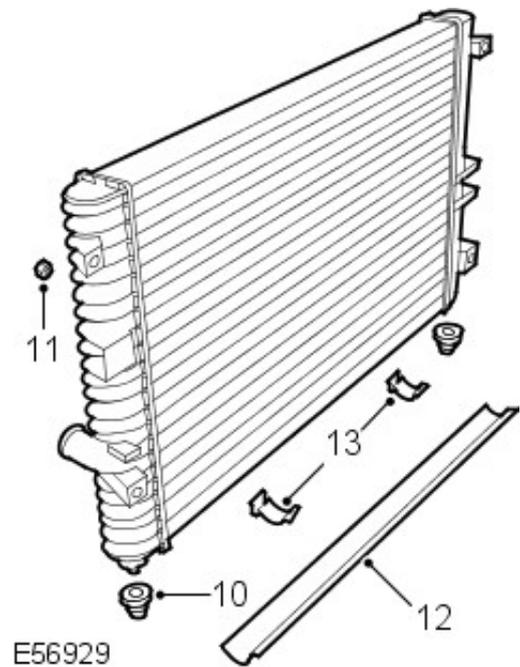
8 Remove screw securing transmission cooler to cooling pack. Move transmission cooler aside.



9 Release radiator from lower mountings and remove from vehicle.

NOTE: Do not carry out further disassembly if component is removed for access only.

10 Remove rubber mountings from base of radiator.



11 Remove two captive nuts from radiator. Refer to Illustration in Step 10.

12 Remove sealing strip from radiator. Refer to Illustration in Step 10.

13 Remove two cowl retaining clips from radiator. Refer to Illustration in Step 10.

Install

14 Install two cowl retaining clips to radiator.

15 Install sealing strip to radiator.

16 Install two captive nuts to radiator.

17 Install rubber mountings to radiator.

18 Install radiator and engage lower mountings in chassis.

19 Install and secure transmission fluid cooler to cooling pack.

20 Remove blanking plugs.

21 Ensure connections are clean and connect fuel hose to cooler.

22 Remove blanking plugs.

23 Ensure connections are clean and connect coolant hose to engine oil cooler.

24 Connect top and bottom hoses to radiator and secure.

25 Connect bleed hose to radiator and secure.

26 Install intercooler.

27 Fill and bleed cooling system.

SERVICE INSTRUCTION:

Radiator assembly - renew - Land Rover Discovery Series II (LT) Rover V8 - upto 03MY

Remove - 26.40.01

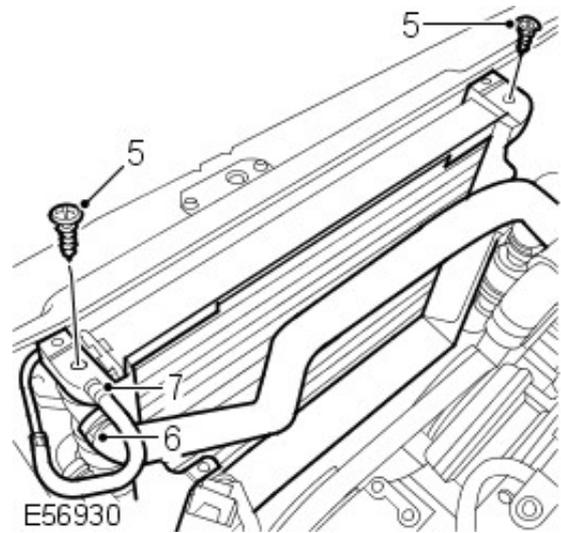
1 Remove battery cover.

2 Disconnect battery ground lead.

3 Drain coolant.

4 Remove upper fan cowl.

5 Remove two screws securing lower half of fan cowl and remove cowl.

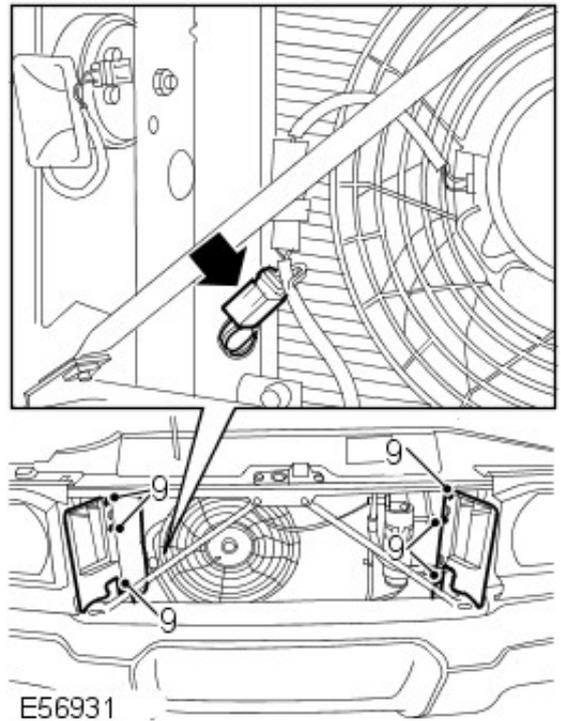


6Release clip and disconnect radiator top hose from radiator. Refer to Illustration in Step 6.

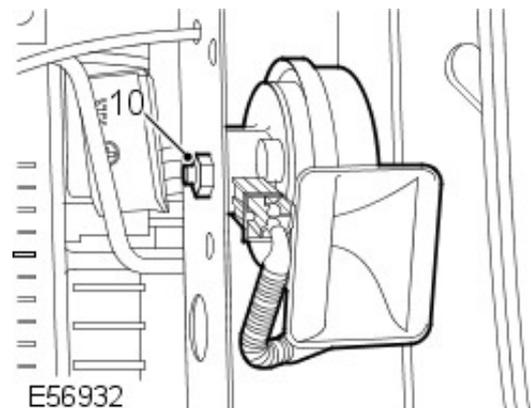
7Release clip and disconnect bleed hose from radiator. Refer to Illustration in Step 6.

8Remove front grille.

9Disconnect gearbox oil temperature sensor connector.
Remove clips and remove air deflectors from front panel.

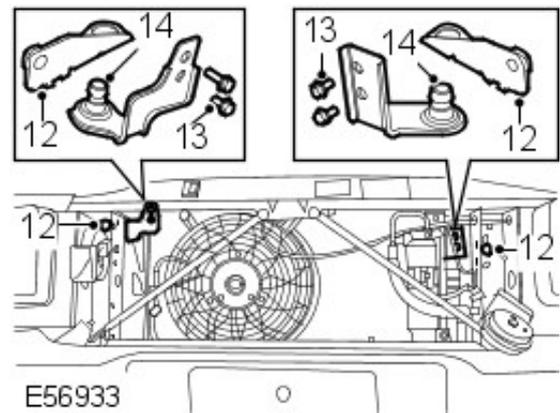


10Remove horns.



11Move sound-deadening from behind each horn aside.

12Remove two bolts securing radiator RH and LH upper mounting brackets to body panel and remove brackets.

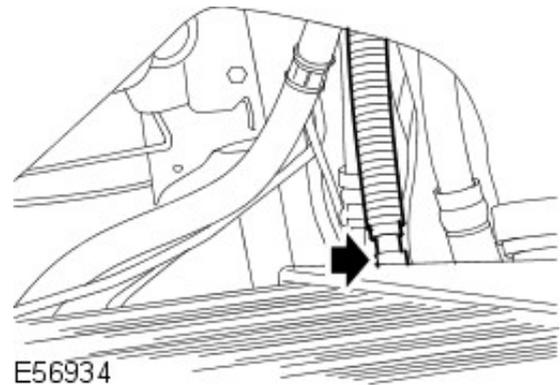


13 Remove four screws securing air conditioning condenser RH and LH upper mounting brackets to condenser. Refer to illustration in step 12.

14 Remove brackets with rubber mounts from radiator extension brackets. Refer to illustration in step 12.

15 Position absorbent cloth under gearbox cooler hose connection to collect spillage.

16 Release quick release connector and disconnect gearbox oil cooler pipe from gearbox fluid cooler.



NOTE: Always install plugs to open connections to prevent contamination.

17 Remove RH and LH radiator extension bracket air deflector securing bolts and remove air deflectors.

18 Remove two bolts securing radiator RH and LH upper mounting brackets to body panel and remove brackets.

19 Move gearbox oil cooler aside.

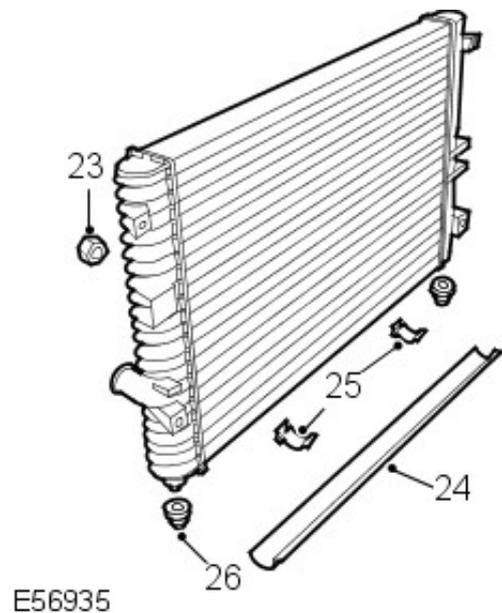
20 Move engine oil cooler aside.

21 Position suitable protection between radiator and cooling fan.

22 Release radiator from lower mountings and remove from vehicle.

NOTE: Do not carry out further disassembly if component is removed for access only.

23 Remove two captive nuts from radiator.



24 Remove sealing strip from radiator. Refer to illustration in step 23.

25 Remove two cowl retaining clips from radiator. Refer to illustration in step 23.

26 Remove rubber mountings from base of radiator. Refer to illustration in step 23.

Install

27 Install rubber mountings to radiator.

28 Install two cowl retaining clips to radiator.

29 Install sealing strip to radiator.

30 Install two captive nuts to radiator.

31 Install radiator and engage lower mountings in chassis.

32 Install engine oil cooler.

33 Install gearbox oil cooler.

34 Install RH and LH radiator air deflectors and install brackets.

35 Install brackets with rubber mounts to radiator extension brackets.

36 Install RH and LH upper mounting brackets to condenser.

37 Install upper mounting brackets to front panel.

38 Remove protection from between radiator and cooling fan.

39 Ensure connections are clean and install hose to gearbox cooler.

40 Wipe up any spillage and discard absorbent material.

41 Install sound-deadening back into position.

42 Install horns.

43 Connect gearbox oil temperature sensor connector.

44 Install air deflectors to front panel.

45 Install front grille.

46 Connect radiator bleed hose.

47 Connect top and bottom hoses to radiator and secure.

48 Install lower half of fan cowl and secure with screws.

49 Install and secure upper fan cowl.

50 Connect battery ground lead.

51 Install and secure battery cover.

52 Fill and bleed cooling system.

53 Check and top up gearbox oil.

SERVICE INSTRUCTION:

Radiator assembly - renew - Land Rover Discovery Series II (LT) Rover V8 From 03 MY

Remove - 26.40.01

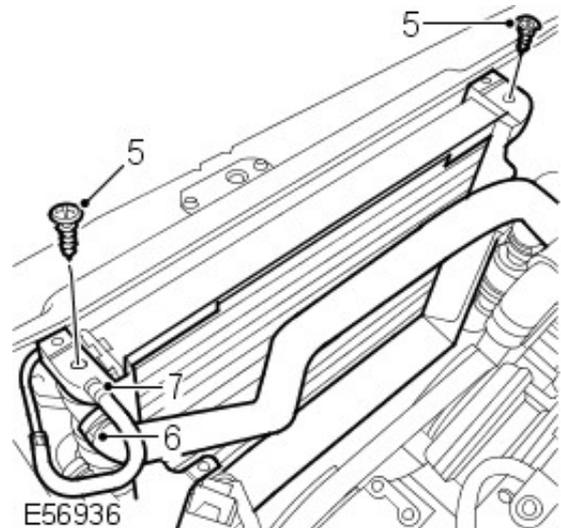
1 Remove battery cover.

2 Disconnect battery ground lead.

3 Drain coolant.

4 Remove upper fan cowl.

5 Remove two screws securing lower half of fan cowl and remove cowl.

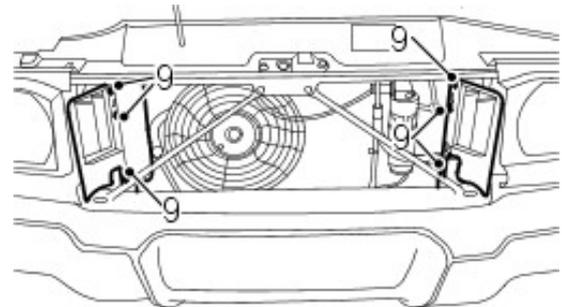


6 Release clip and disconnect radiator top hose from radiator.

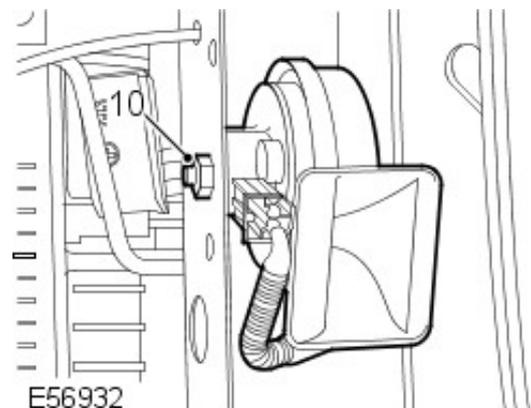
7 Release clip and disconnect bleed hose from radiator.

8 Remove front grille.

9 Remove six scrivenets and remove RH and LH air deflectors from front panel.

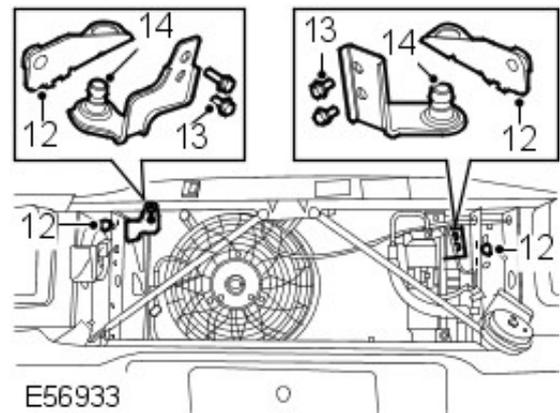


10 Remove horns.



11 Move sound-deadening from behind each horn aside.

12 Remove two bolts securing radiator RH and LH upper mounting brackets to body panel and remove brackets.

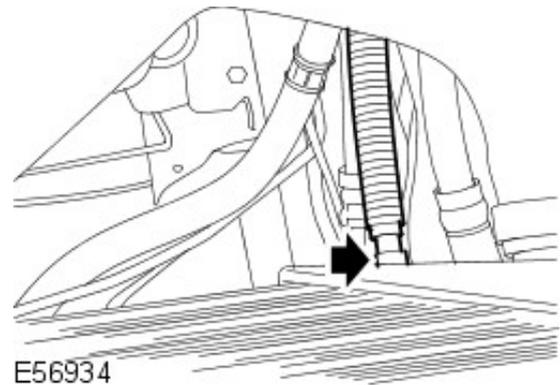


13 Remove four screws securing air conditioning condenser RH and LH upper mounting brackets to condenser. Refer to illustration in step 12.

14 Remove brackets with rubber mounts from radiator extension brackets. Refer to illustration in step 12.

15 Position absorbent cloth under gearbox cooler hose connection to collect spillage.

16 Release quick release connector and disconnect gearbox fluid cooler pipe from gearbox fluid cooler.



NOTE: Always install plugs to open connections to prevent contamination.

17 Remove RH and LH radiator extension bracket air deflector securing bolts and remove air deflectors.

18 Remove two bolts securing radiator RH and LH upper mounting brackets to body panel and remove brackets.

19 Move gearbox oil cooler aside.

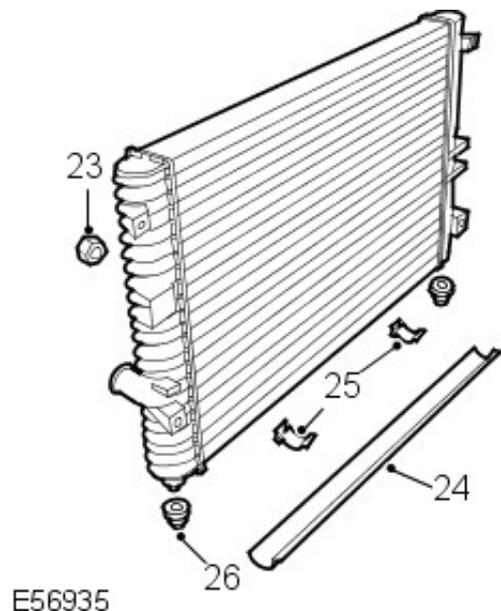
20 Move engine oil cooler aside.

21 Position suitable protection between radiator and cooling fan.

22 Release radiator from lower mountings and remove from vehicle.

NOTE: Do not carry out further disassembly if component is removed for access only.

23 Remove two captive nuts from radiator.



24 Remove sealing strip from radiator. Refer to illustration in step 23.

25 Remove two cowl retaining clips from radiator. Refer to illustration in step 23.

26 Remove rubber mountings from base of radiator. Refer to illustration in step 23.

Install

27 Install rubber mountings to radiator.

28 Install two cowl retaining clips to radiator.

29 Install sealing strip to radiator.

30 Install two captive nuts to radiator.

31 Install radiator and engage lower mountings in chassis.

32 Install engine oil cooler.

33 Install gearbox oil cooler.

34 Install RH and LH radiator air deflectors and install brackets.

35 Install brackets with rubber mounts to radiator extension brackets.

36 Install RH and LH upper mounting brackets to condenser.

37 Install upper mounting brackets to front panel.

38 Remove protection from between radiator and cooling fan.

39 Ensure connections are clean and install hose to gearbox cooler.

40 Wipe up any spillage and discard absorbent material.

41 Install sound-deadening back into position.

42 Install horns.

43 Install air deflectors to front panel.

44 Install front grille.

45 Connect radiator bleed hose.

46 Connect top and bottom hoses to radiator and secure.

47 Install lower half of fan cowl and secure with screws.

48 Install and secure upper fan cowl.

49 Connect battery ground lead.

50 Install and secure battery cover.

51 Fill and bleed cooling system.

52 Check and top up gearbox oil.