

Engine - V8 5.0L Petrol - Engine Oil Draining and Filling

General Procedures

Draining



WARNING: The spilling of hot engine oil is unavoidable during this procedure, care must be taken to prevent scalding.



CAUTION: Correct installation of the oil filler cap can be obtained by tightening the cap until hard stop.

• **NOTE:** Clean the components general area prior to dismantling.

1. **CAUTION:** Make sure the engine is warm.

Start the engine and allow to run for 10 minutes, stop the engine.

2.

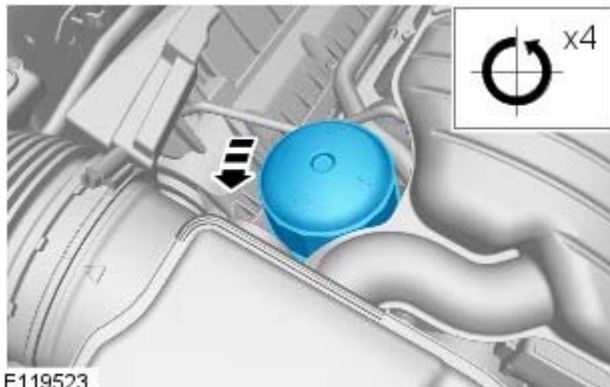


E119494

3. Refer to: [Engine Cover - V8 5.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

4.

- Loosen the element cover 4 complete turns to allow engine oil to drain from the filter cover.
- Make sure that the O-ring seal is exposed.



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5. **NOTE:** Allow 10 minutes for the engine oil to drain from the oil filter housing.
6. Remove and discard the oil filter element.

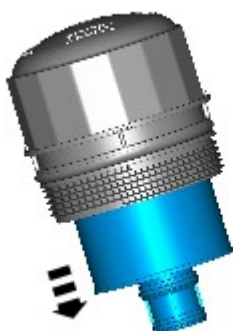


WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

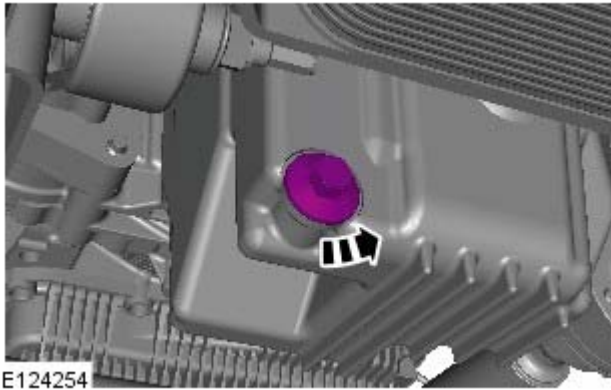
Raise and support the vehicle.



8. Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).



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9. **9. CAUTIONS:**



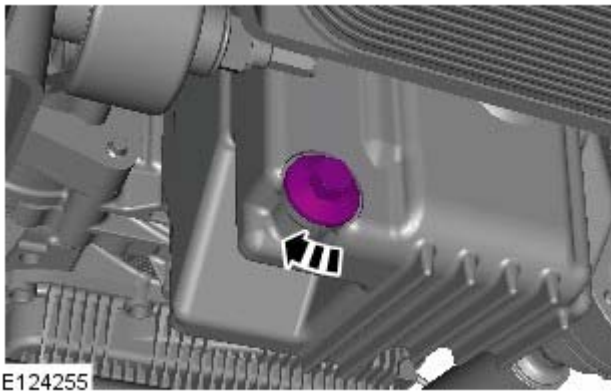
Be prepared to collect escaping oil.




Allow at least 10 minutes for the engine oil to drain.

• NOTE: Discard the sealing washer.

Filling



1. **10.**  **CAUTION:** Make sure that the area around the component is clean and free of foreign material.

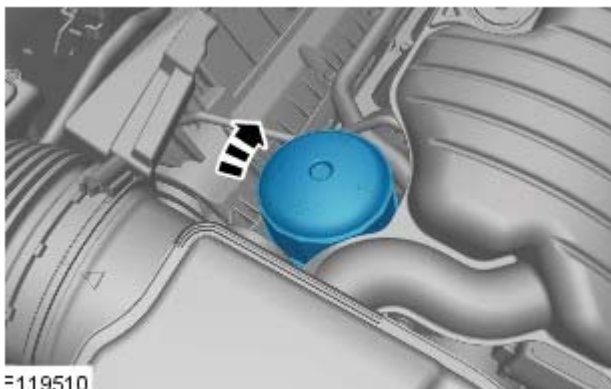
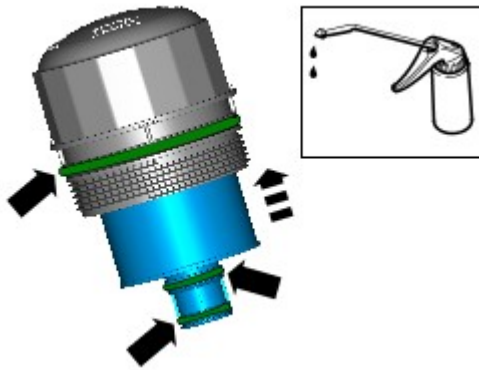
• NOTE: Install a new sealing washer.

Torque: 24 Nm

2. Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).


3. **12.** NOTE: Install new O-ring seals.

Lubricate the oil filter element O-ring seal with clean engine oil.



4. **13.**  **CAUTION:** Tighten the component finger tight first.

• *Torque: 25 Nm*

5. **14.**  **CAUTION:** Make sure that the vehicle is left for 5 minutes from filling with oil and that the engine oil level is reading at least minimum (by following Steps 9-15), before starting the engine.

- Fill the engine with oil - for filling values on vehicles without supercharger:

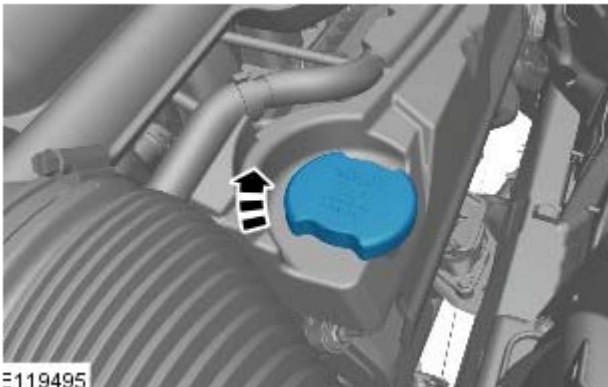
Refer to: [Specifications](#) (303-01D Engine - V8 5.0L Petrol, Specifications).

- Fill the engine with oil - for filling values on vehicles with supercharger:


Refer to: [Specifications](#) (303-01D Engine - V8 5.0L Petrol, Specifications).

- Clean any residual engine oil from the oil filler cap area.

6.



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7. **16.**  **CAUTION:** Make sure that the vehicle has been left for 5 minutes from filling with oil.

Follow the Steps 9-15 before starting the engine.

8.

- Start the engine and allow to run for 10 minutes, stop the engine.
- Check for leaks.

9. **18. CAUTIONS:**



Make sure that the selector lever and the gearshift mechanism are in the park (P) position.



Make sure that the hood is open.

- Turn the ignition on.



E123926

10.

- Press the right-hand directional button to access the instrument cluster menu.



E123925

11.

- Press the right-hand OK button.



E123927

12.

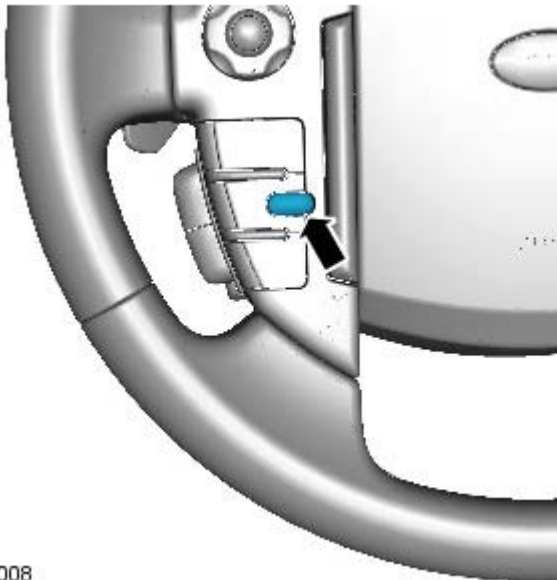
- Press the right-hand directional button to access the Oil Level Display.



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13.

- Press the right-hand OK button and follow the instructions.



E121008

14.

- Press the cruise control cancel button twice within 2 seconds.



E123929

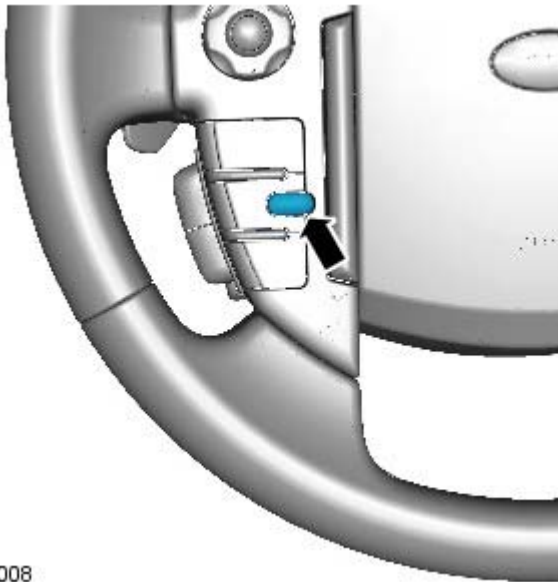
15.

- The message center display will revert to the normal display in the trip computer.
- Press the right-hand OK button and follow the instructions.
- Check that the oil level display shows an oil level reading.
- Only after having started and run the engine for 10 minutes (as indicated in Step 8), switch off the engine, then stabilizing for 10 minutes, take a reading from the oil level display and, if necessary top up with engine oil.

16. **25.** NOTE: If instructed to follow Steps 9-15 in a previous step, return to Step 8 and continue the procedure.

Turn the ignition off.

17. Allow 10 minutes for the engine oil level to stabilize if there has been additional oil top up.



E121008

18. **27. NOTE:** The following steps are to update the average oil level value.

- Turn the ignition on.
- Press and hold the cruise control cancel button for more than 2 seconds.

19.

- The message center display will revert to the normal display in the trip computer.

20. Turn the ignition off.

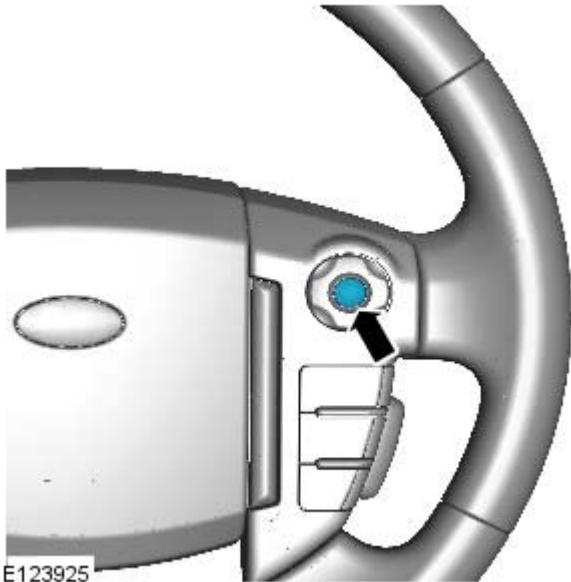
21. Turn the ignition on.

22.

- Press the right-hand directional button to access the instrument cluster menu.



E123926



23.

- Press the right-hand OK button.



24.

- Press the right-hand directional button to access the Oil Level Display.



123929

25.

- Press the right-hand OK button and follow the instructions.
- Make sure that the average oil level value has now been updated.

26. Refer to: [Engine Cover - V8 5.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

Engine - V8 5.0L Petrol - Engine Oil Vacuum Draining and Filling

General Procedures

Special Tool(s)

 E129630	303-1484 Vacuum Pump, Oil Drain
 E129631	303-1484-01 Adapter for 303-1484

Draining



WARNING: The spilling of hot engine oil is unavoidable during this procedure, care must be taken to prevent scalding.



CAUTION: Correct installation of the oil filler cap can be obtained by tightening the cap until hard stop.

- NOTE: Make sure that the vehicle is parked on level ground.
- NOTE: Clean the components general area prior to dismantling.

1.

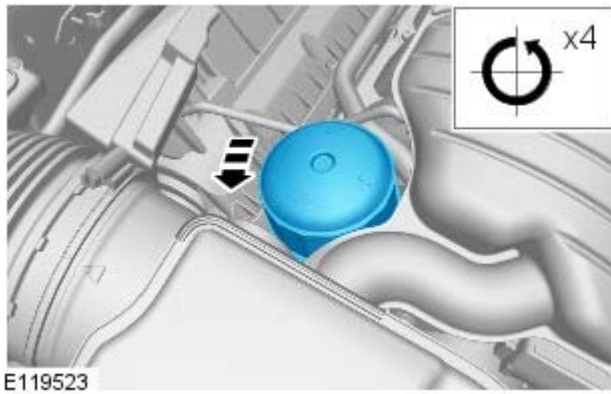
- Start the engine and allow to run for 10 minutes, stop the engine.



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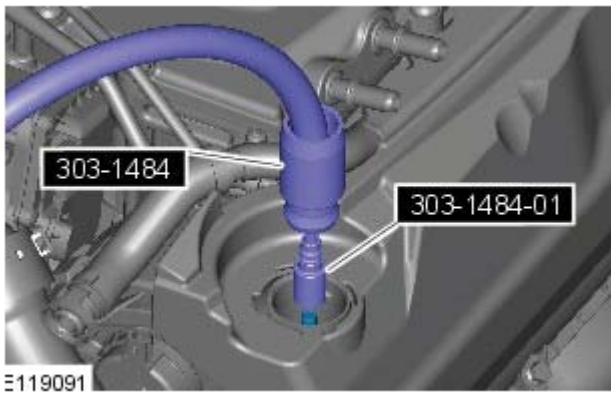
2.  **CAUTION:** Allow 10 minutes from turning the engine off before starting oil extraction.

3. Refer to: [Engine Cover - V8 5.0L Petrol](#) (501-05 Interior Trim and Ornamantation, Removal and Installation).



4.

- Loosen the element cover 4 complete turns to allow engine oil to drain from the filter cover.



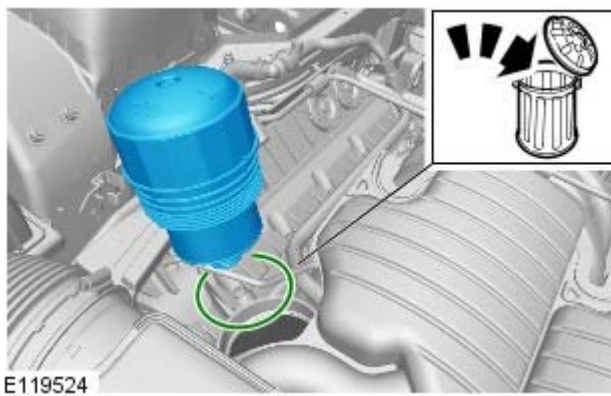
5.

- Using the oil vacuum pump drain the oil out through the oil extraction tube.

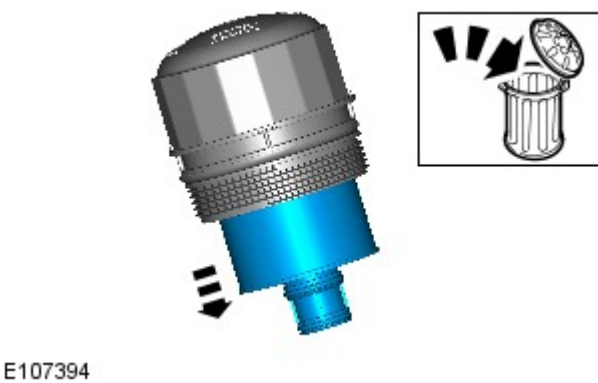
Special Tool(s): [303-1484](#), [303-1484-01](#)

6.

- Remove the oil vacuum pump.



7.

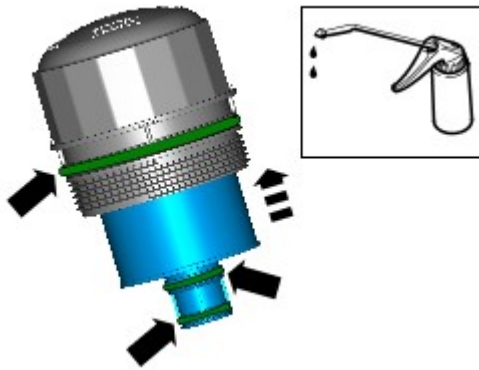


8. **8. NOTE:** Discard the O-ring seals.

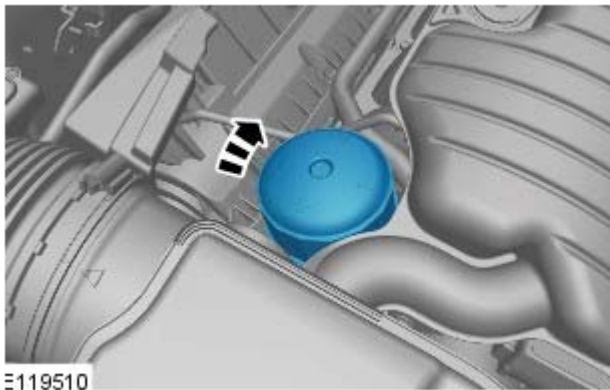
Filling

1. **9.** NOTE: Install new O-ring seals.

Lubricate the oil filter element O-ring seal with clean engine oil.




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E119510

2. **10.**  CAUTION: Tighten the component finger tight first.

- Torque: 25 Nm

3. **11.**  CAUTION: Make sure that the vehicle is left for 5 minutes from filling with oil and that the engine oil level is reading at least minimum (by following Steps 7-13), before starting the engine.

- Fill the engine with oil - for filling values on vehicles without supercharger:

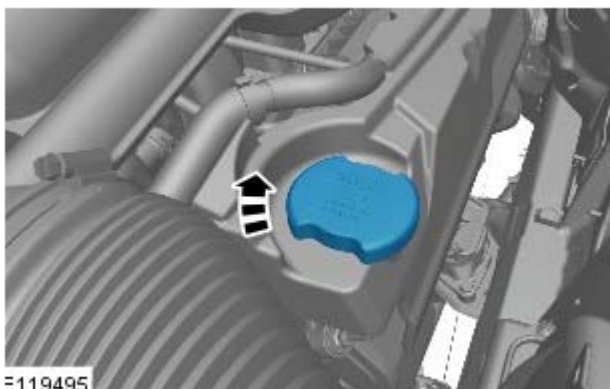
Refer to: [Specifications](#) (303-01D Engine - V8 5.0L Petrol, Specifications).

- Fill the engine with oil - for filling values on vehicles with supercharger:


Refer to: [Specifications](#) (303-01D Engine - V8 5.0L Petrol, Specifications).

- Clean any residual engine oil from the oil filler cap area.

- 4.



E119495

5. **13.**  CAUTION: Make sure that the vehicle has been left for 5 minutes from filling with oil.

Follow the Steps 7-13 before starting the engine.

6.
 - Start the engine and allow to run for 10 minutes, stop the engine.
 - Check for leaks.

7. **15. CAUTIONS:**



Make sure that the selector lever and the gearshift mechanism are in the park (P) position.



Make sure that the hood is open.

- Turn the ignition on.

8.

- Press the right-hand directional button to access the instrument cluster menu.





9.

- Press the right-hand OK button.



10.

- Press the right-hand directional button to access the Oil Level Display.



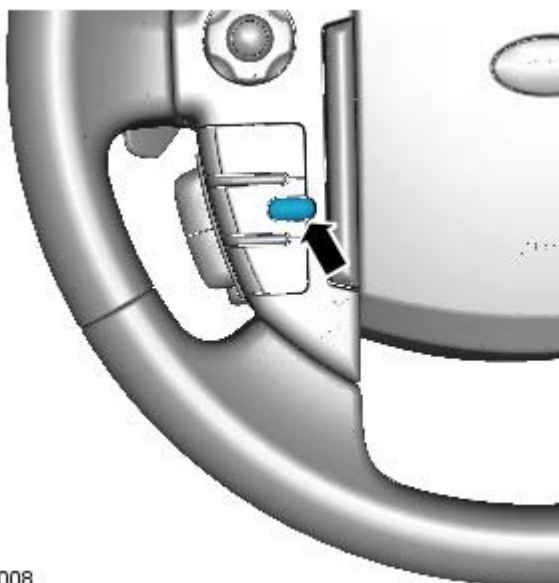
E123927



E123928

11.

- Press the right-hand OK button and follow the instructions.



E121008

12.

- Press the cruise control cancel button twice within 2 seconds.



E123929

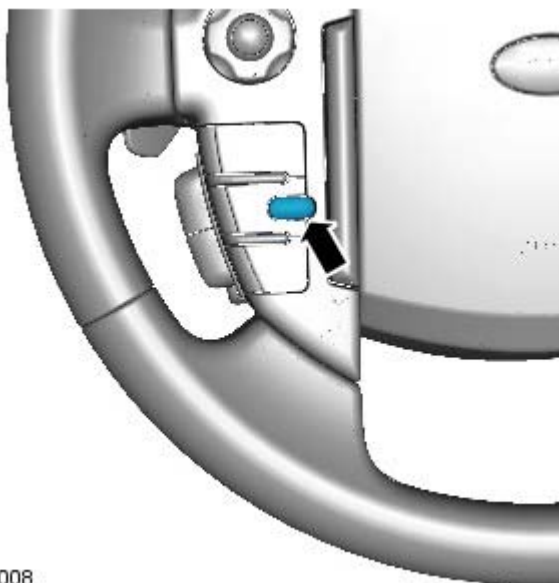
13.

- The message center display will revert to the normal display in the trip computer.
- Press the right-hand OK button and follow the instructions.
- Check that the oil level display shows an oil level reading.
- Only after having started and run the engine for 10 minutes (as indicated in Step 6), switch off the engine, then stabilizing for 10 minutes, take a reading from the oil level display and, if necessary top up with engine oil.

14. **22. NOTE:** If instructed to follow Steps 7-13 in a previous step, return to Step 6 and continue the procedure.

Turn the ignition off.

15. Allow 10 minutes for the engine oil level to stabilize if there has been additional oil top up.



E121008

16. **24. NOTE:** The following steps are to update the average oil level value.

- Turn the ignition on.
- Press and hold the cruise control cancel button for more than 2 seconds.

17.

- The message center display will revert to the normal display in the trip computer.

18. Turn the ignition off.



E123926

20.

- Press the right-hand directional button to access the instrument cluster menu.



E123925

21.

- Press the right-hand OK button.



E123927

22.

- Press the right-hand directional button to access the Oil Level Display.



E123929

23.

- Press the right-hand OK button and follow the instructions.
- Make sure that the average oil level value has now been updated.

24. Refer to: [Engine Cover - V8 5.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).