

Engine - 5.0L NA V8 - AJ133 - Engine Oil Vacuum Draining and Filling

General Procedures

Special Tool(s)

 <p>E129630</p>	<p>303-1484 Vacuum Pump, Oil Drain</p>
 <p>E129631</p>	<p>303-1484-01 Adapter for 303-1484</p>

Draining

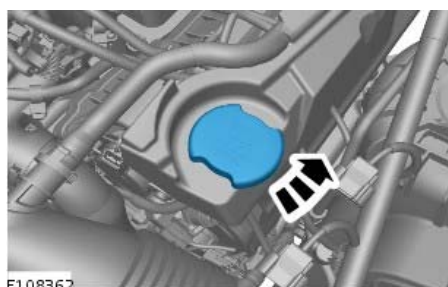
⚠ WARNING: The spilling of hot engine oil is unavoidable during this procedure, care must be taken to prevent scalding.

⚠ 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.

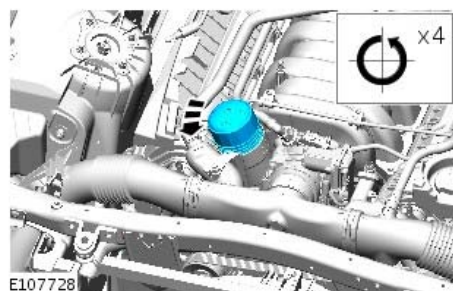


2. **⚠ CAUTION:** Allow 10 minutes from turning the engine off before starting oil extraction.

3. Refer to: [Engine Cover - 5.0L NA V8 - AJ133/5.0L SC V8 - AJ133](#) (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.



5.

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

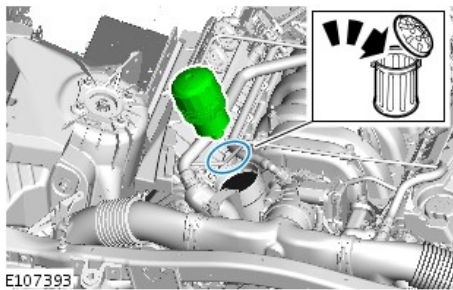
Special Tool(s): [303-1484](#), [303-1484-01](#)



6.

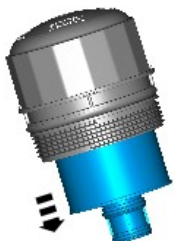
- Remove the oil vacuum pump.

7.



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

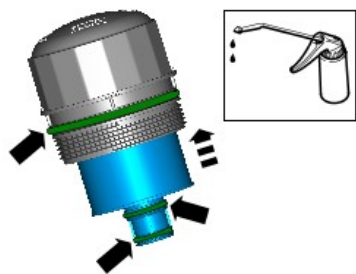


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Filling

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

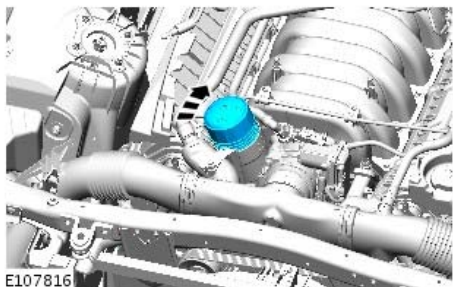
Lubricate the oil filter element O-ring seal with clean engine oil.



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

- *Torque: 25 Nm*

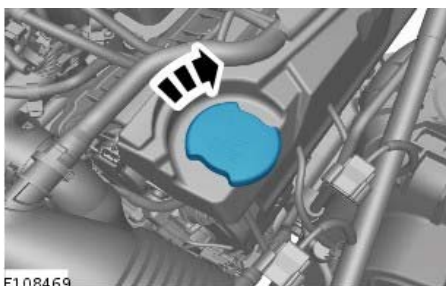


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3. **11. CAUTION:** Make sure that the vehicle is left for 5 minutes from filling with oil and that the engine oil level is reading at least minimum (by following Steps 7-11), before starting the engine.

- Fill the engine with oil - for filling values on vehicles without supercharger:
Refer to: [Specifications](#) (303-01C Engine - 5.0L NA V8 - AJ133, Specifications).
- Fill the engine with oil - for filling values on vehicles with supercharger:
Refer to: [Specifications](#) (303-01D Engine - 5.0L SC V8 - AJ133, Specifications).
- Clean any residual engine oil from the oil filler cap area.

4.



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

Follow the Steps 7-11 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.

- Scroll through the trip menu to access the engine oil level display.



E115112

9.

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



E111933

10.

- The message center display will revert to the normal display in the trip computer.
- Scroll through the trip menu to access the engine oil level display.
- 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.



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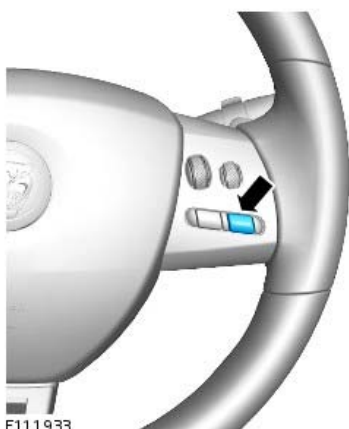
11. **19. NOTE:** If instructed to follow Steps 7-11 in a previous step, return to Step 6 and continue the procedure.

Turn the ignition off.

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

13. **21. 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.



E111933

14.
 - The message center display will revert to the normal display in the trip computer.
15. Turn the ignition off.
16. Turn the ignition on.
17.
 - Scroll through the trip menu to access the engine oil level display.
 - Make sure that the average oil level value has now been updated.



E111932

18. Refer to: [Engine Cover - 5.0L NA V8 - AJ133/5.0L SC V8 - AJ133](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).