

303-01 Engine - 2.3L EcoBoost (201kW/273PS)

2019 Ranger

General Procedures

Procedure revision date: 01/8/2019

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## Engine Oil Draining and Filling

### Special Tool(s) / General Equipment

Oil Drain Equipment
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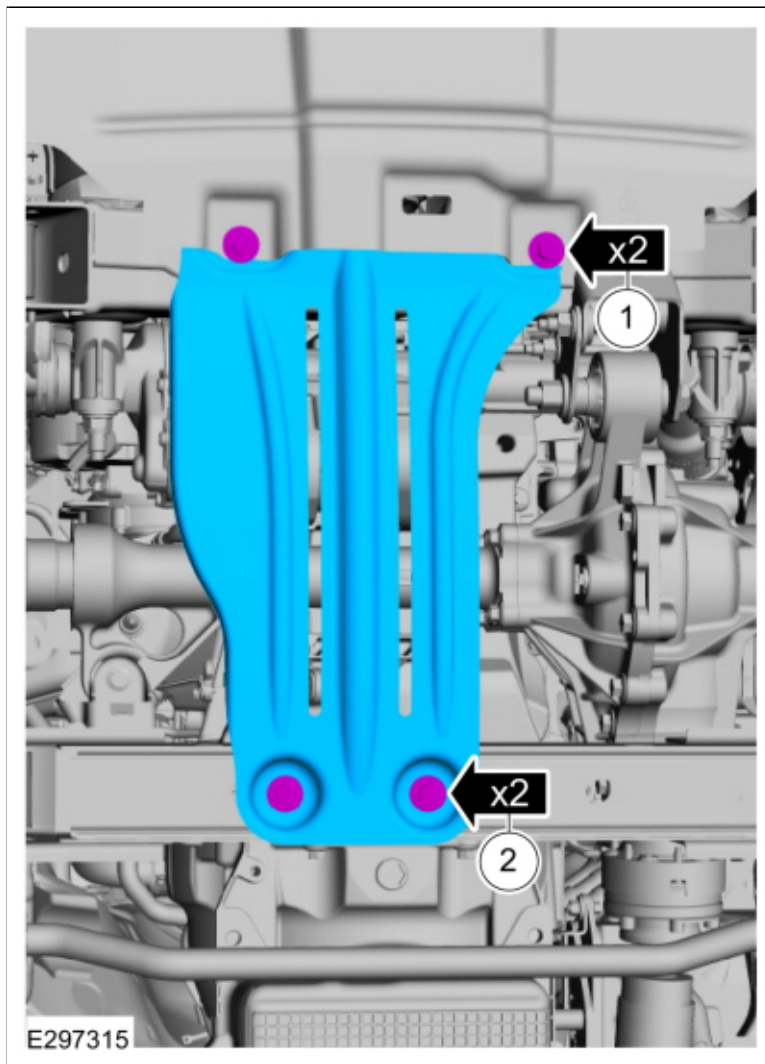
### Materials

Name	Specification
Motorcraft® Metal Brake Parts Cleaner PM-4-A, PM-4-B	-

### Draining

1. With the vehicle in NEUTRAL, position it on a hoist.  
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
2.
  1. Loosen the rear skid plate bolts.
  2. Remove the bolts and the rear skid plate.

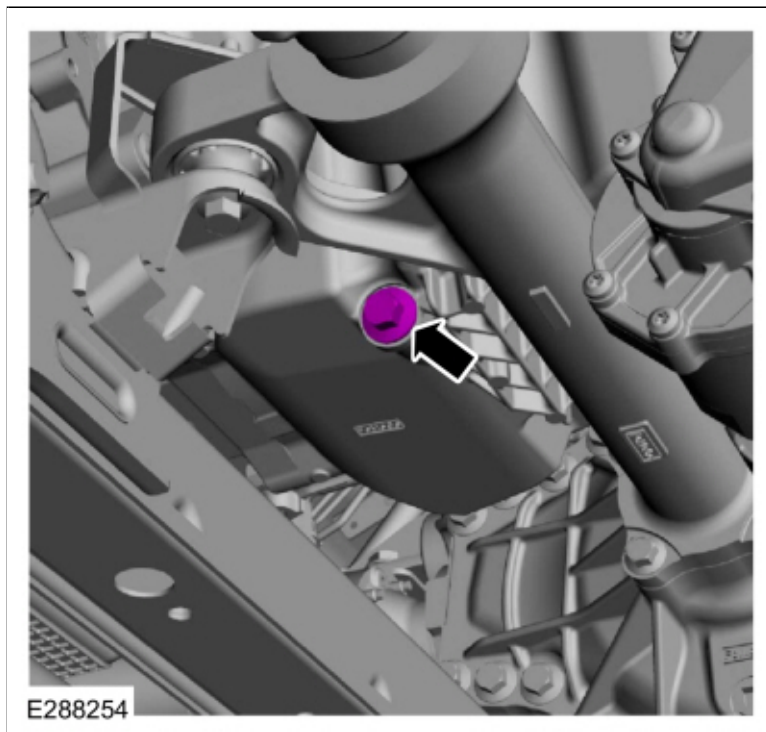




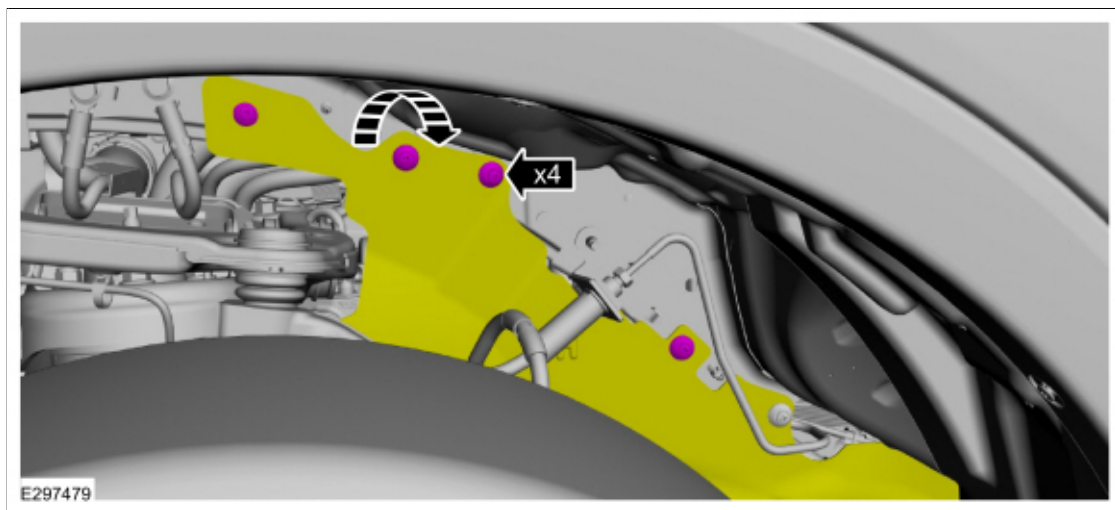
3.

- Remove the oil pan drain bolt and drain the engine oil.  
Use the General Equipment: Oil Drain Equipment
- Install the oil pan drain bolt.  
*Torque: 20 lb.ft (27 Nm)*



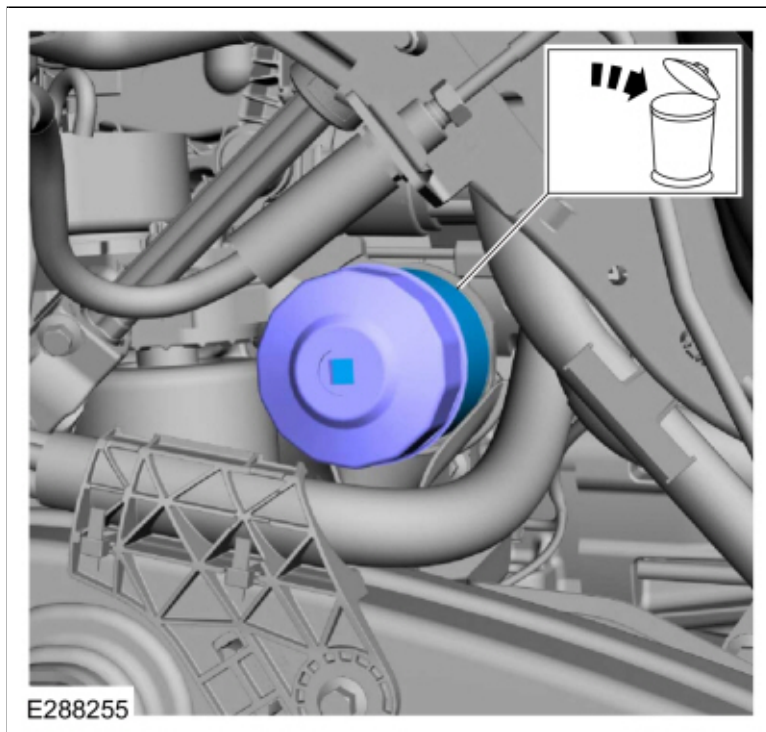


4. Remove the retainers and the position the LH side splash shield down for access to the oil filter.



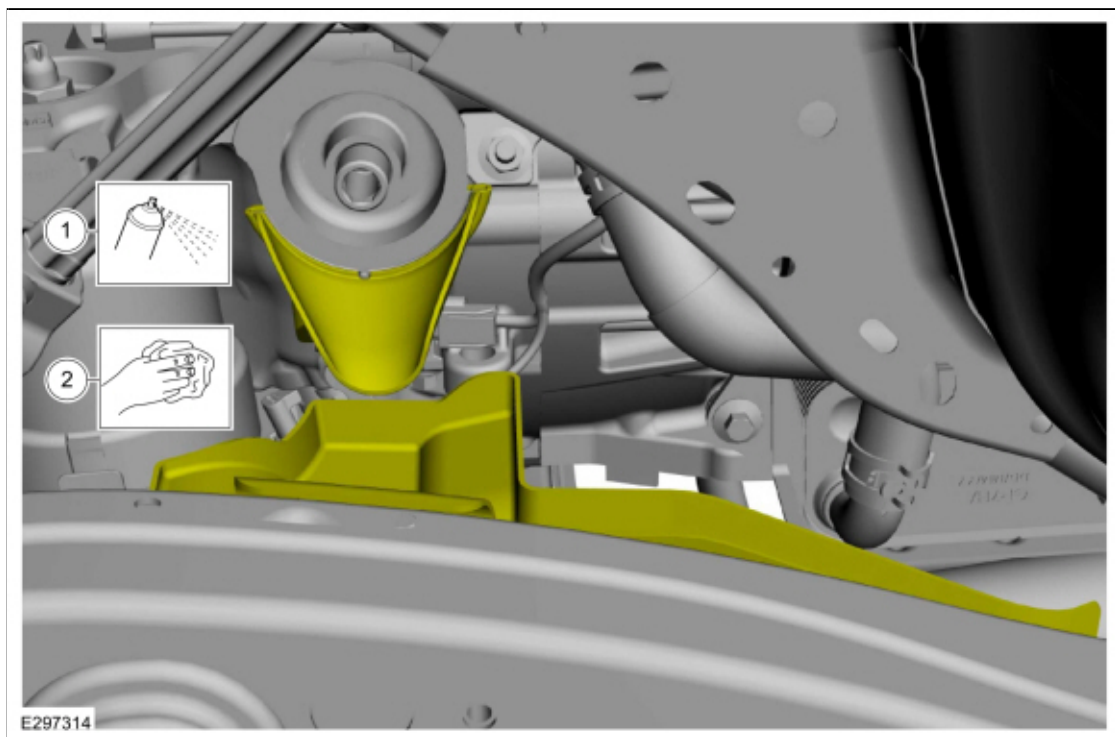
5. **NOTE:** Use a commercially available 74/76mm - 15 flutes end cap oil filter wrench.

Remove and discard the engine oil filter.  
Use the General Equipment: Oil Drain Equipment



6.

1. Using brake cleaner, clean the drain troughs.  
Use the General Equipment: Oil Drain Equipment  
*Material:* Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B
2. Wipe the drain troughs clean.



### Filling

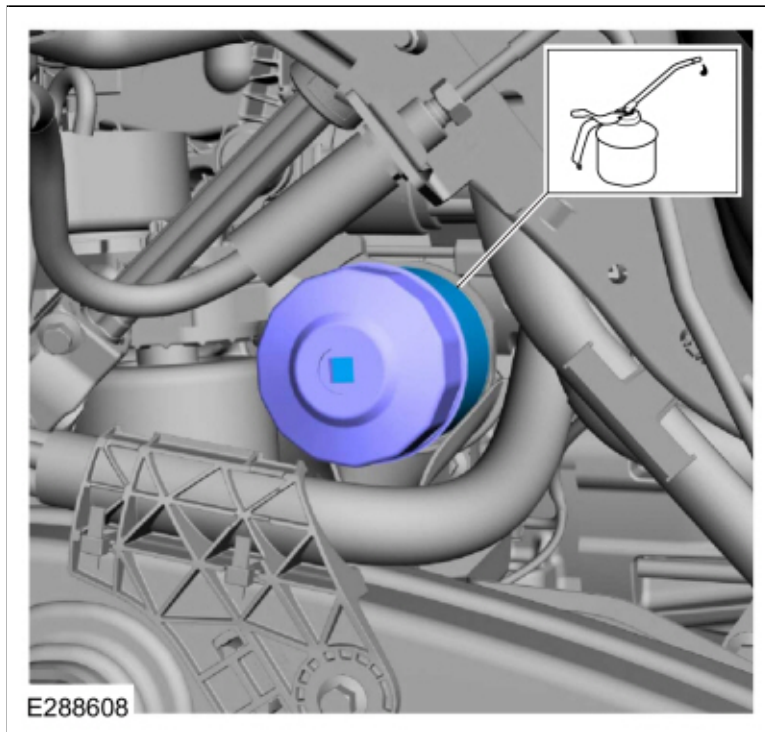
1. **NOTE:** Use a commercially available 74/76mm - 15 flutes end cap oil filter wrench.

Lubricate the new engine oil filter sealing surface with clean engine oil and install.

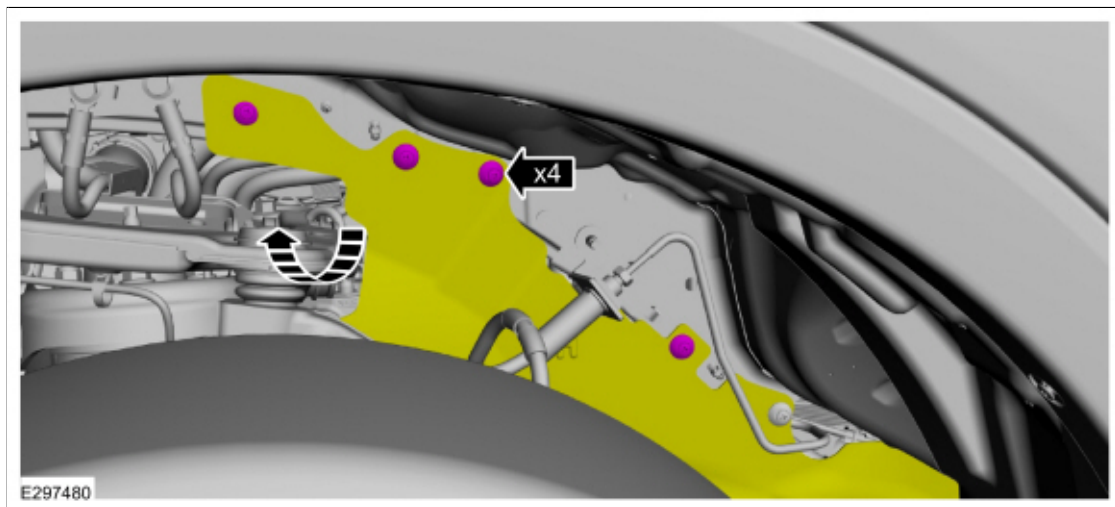
**Torque:**

Stage 1: 71 lb.in (8 Nm)

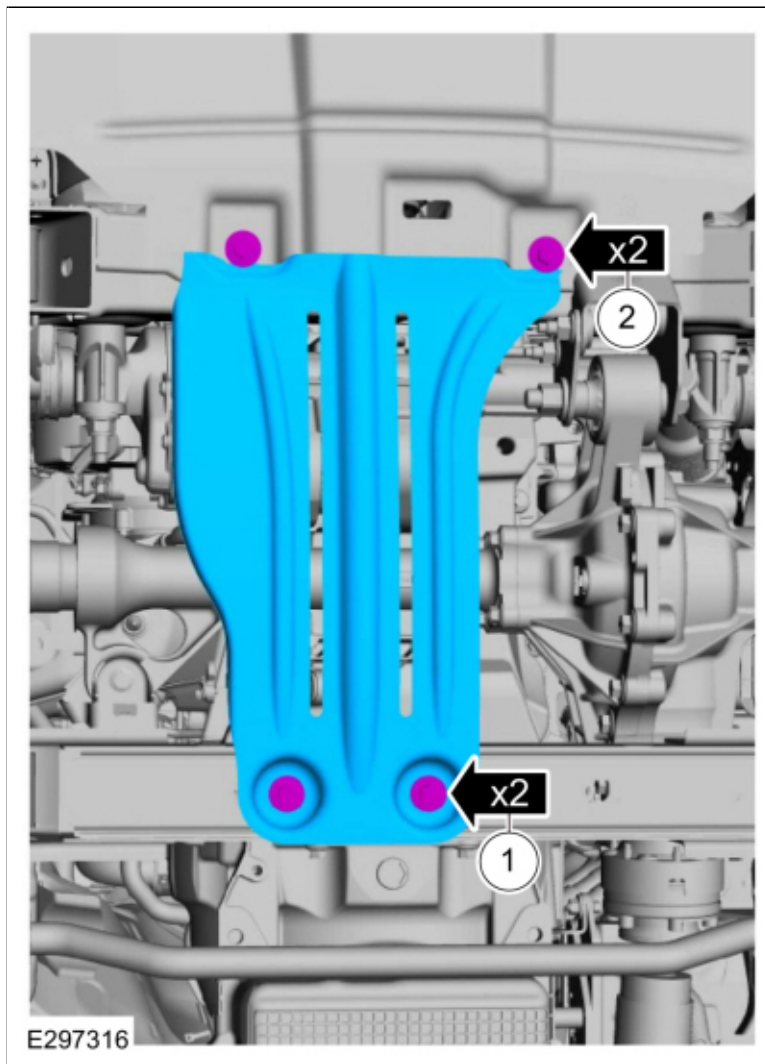
Stage 2: 180°



2. Position the LH side splash shield and install the retainers.

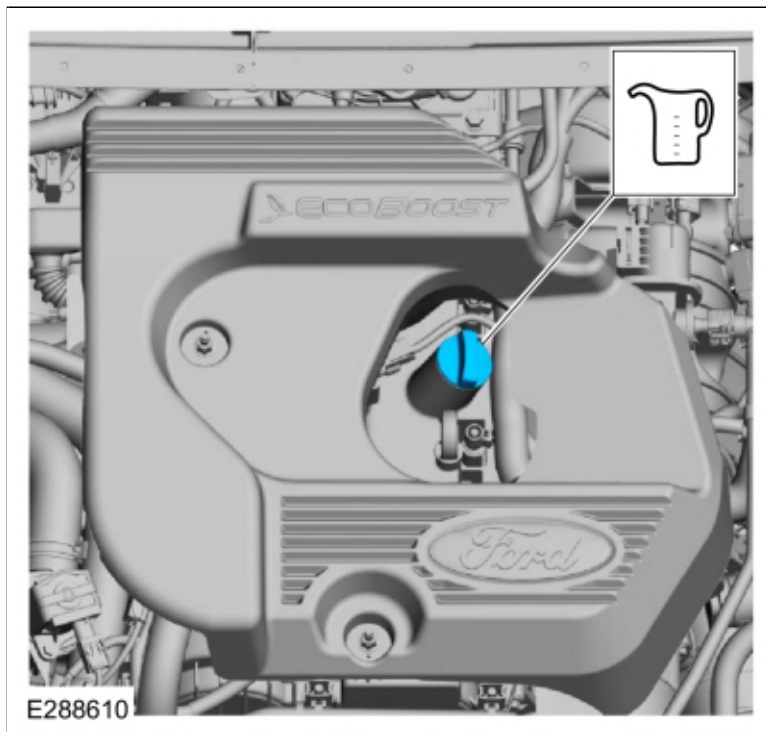


3.
  1. Install the rear skid plate and the bolts.  
*Torque:* 22 lb.ft (30 Nm)
  2. Tighten the rear skid plate bolts.  
*Torque:* 22 lb.ft (30 Nm)



4. Fill the engine with clean engine oil.  
Refer to: [Specifications](#) (303-01 Engine - 2.3L EcoBoost (201kW/273PS), Specifications).





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