

SECTION 206-07: Power Brake Actuation  
REMOVAL AND INSTALLATION

2014 F-150 Workshop Manual  
Procedure revision date: 10/25/2013

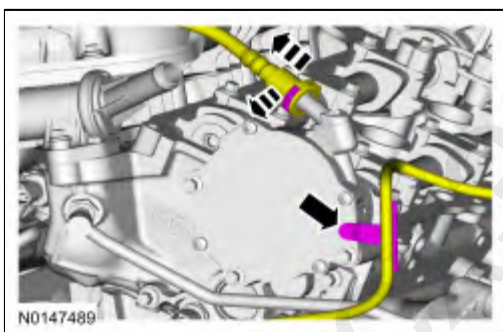
## Brake Vacuum Pump

### Material

| Item                                                    | Specification |
|---------------------------------------------------------|---------------|
| Motorcraft® High Performance Engine RTV Silicone TA-357 | WSE-M4G323-A6 |
| Motorcraft® Metal Surface Prep ZC-31-A                  | —             |

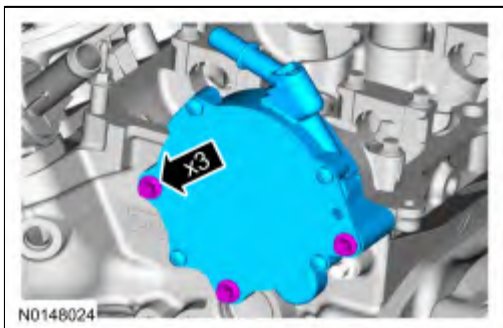
### Removal

1. Remove the RH front fender inner splash shield. Refer to [Section 501-02](#).
- 2.



3. **NOTICE:** Do not use excessive force when removing the vacuum pump or the vacuum pump oil tube may be dislodged from the pump causing internal oil seal damage to the pump. If the oil tube becomes dislodged from the pump, a new vacuum pump must be installed.

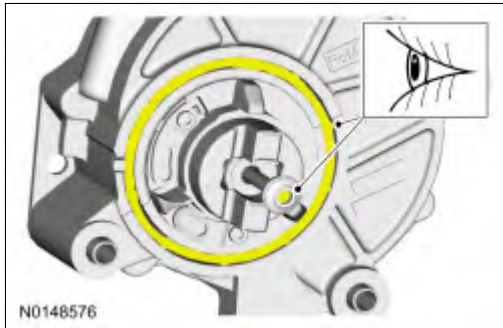
**NOTE:** The upper/inboard vacuum pump bolt will remain in the vacuum pump housing when removing the vacuum pump.



### Installation

- 1.
2. **NOTICE:** Make sure the oil tube filter screen is free of contaminants prior to the installation of the pump or damage to components may occur.

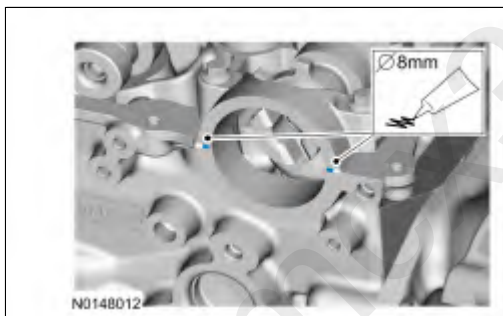
Visual check. Install a new gasket as necessary.



3. **NOTICE:** If the brake vacuum pump is not secured within 10 minutes of sealant application, the sealant must be removed and the sealing area cleaned with metal surface prep. Failure to follow this procedure can cause future oil leakage.

**NOTE:** Make sure the mating surfaces are clean and free of foreign material.

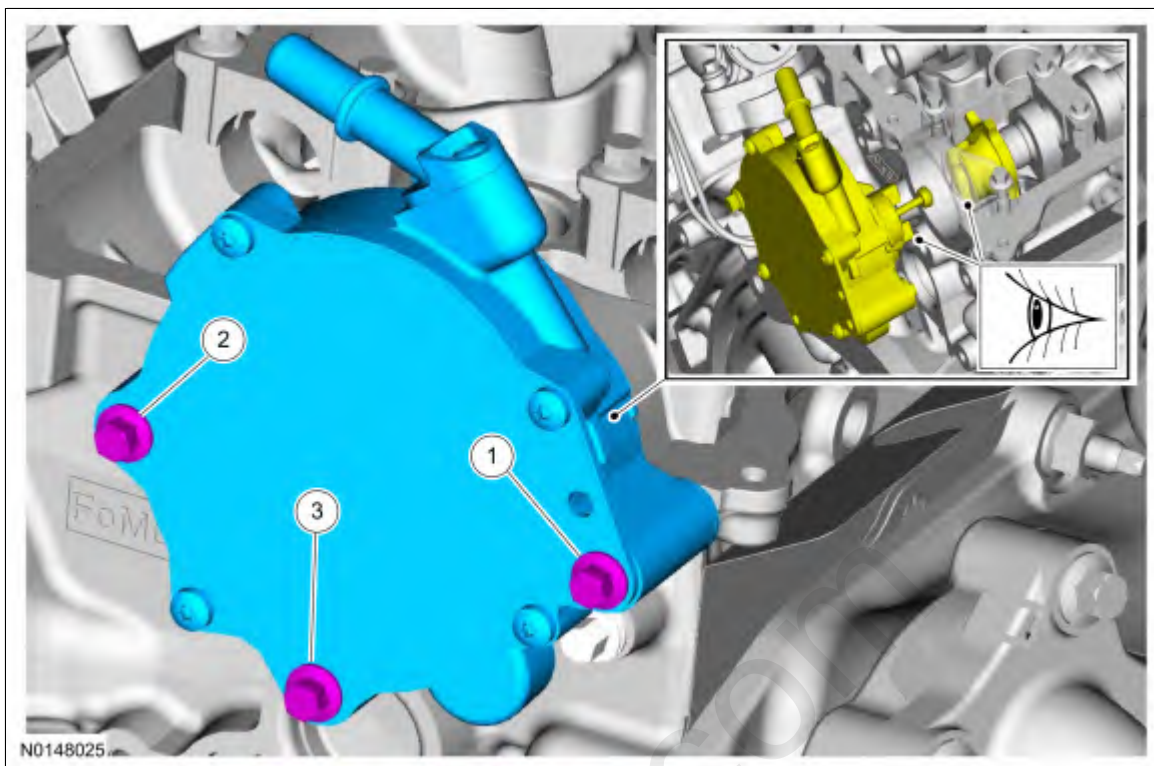
Apply a bead of the specified diameter from the specified tube.



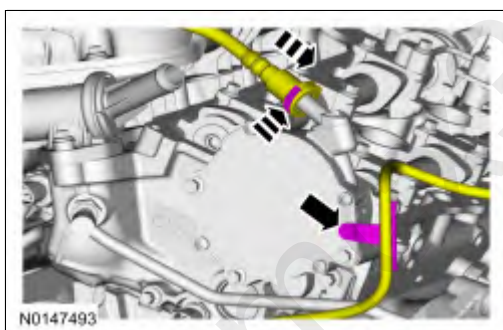
4. **NOTE:** Manually align the brake vacuum pump drive key with the camshaft slot before installation.

Visual check.

- Stage 1: Tighten in the sequence shown to 10 Nm (89 lb-in).
- Stage 2: Tighten an additional 45 degrees.



5.



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