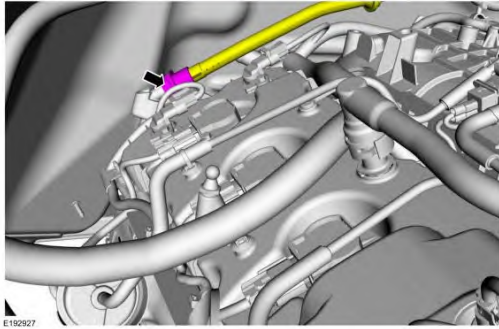
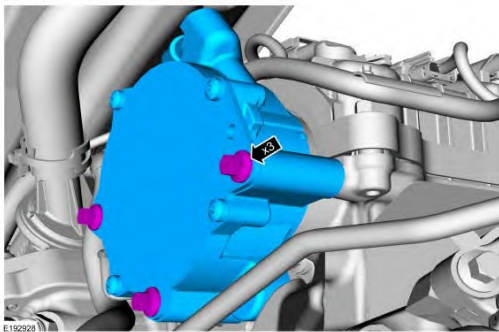




4.

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

Remove the 3 bolts and the brake vacuum pump.



REMOVAL AND INSTALLATION > BRAKE VACUUM PUMP - 3.5L ECOBOOST (272KW 370PS) > INSTALLATION

1.

 **NOTE:** Do not use wire brushes, power abrasive discs or 3M™ Roloc® Bristle Disk (2-in white, part number 07528) to clean the sealing surfaces of the engine block. These tools cause scratches and gouges that make leak paths. They also cause contamination that causes premature engine failure. Remove all traces of the gasket.

Make sure that the mating faces are clean and free of foreign material. Refer to: RTV Sealing Surface Cleaning and Preparation .

Material

: Motorcraft® Silicone Gasket Remover / ZC-30-A

Material

: Metal Brake Parts Cleaner / PM-4-A, PM-4-B

Material

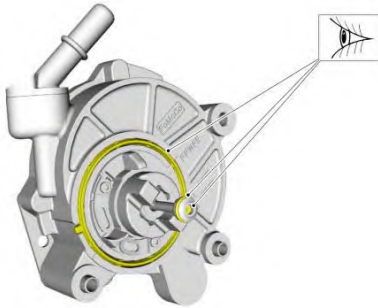
: Motorcraft® Metal Surface Prep / ZC-31-B

2.



NOTE: Make sure the oil tube filter screen is free of contaminants prior to the installation of the pump or damage to components may occur.

Inspect the gaskets and oil tube filter screen. Install new gaskets or a new vacuum pump as necessary.



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3.

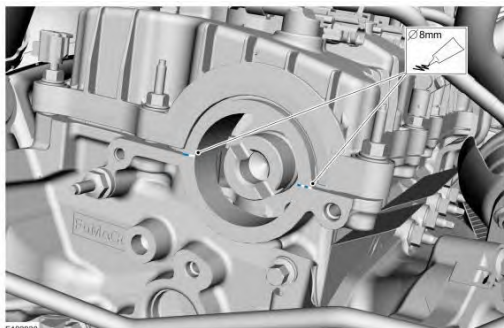


NOTE: If the brake vacuum pump is not secured within 10 minutes of sealant application, the sealant must be removed and the sealing area cleaned with metal surface prep. Failure to follow this procedure can cause future oil leakage.

Apply an 8mm bead of the specified sealant in the location shown in illustration.

Material

: Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)



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4.

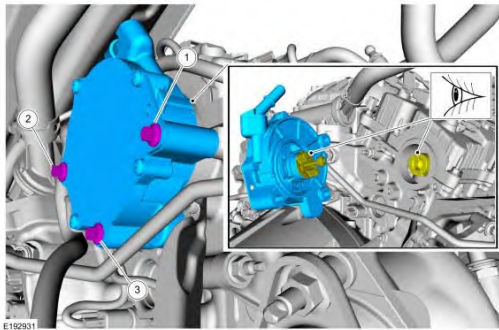
 **NOTE:** Manually align the brake vacuum pump drive key with the camshaft slot before installation.

Install the vacuum pump and tighten the 3 bolts in 2 stages.

Torque:

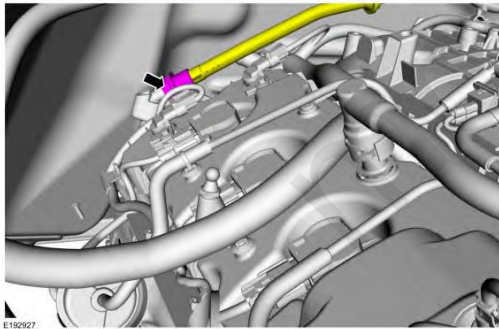
Stage 1: 89 lb.in (10 Nm)

Stage 2: 45°



5.

Connect the vacuum tube making sure the coupling locks to the brake vacuum pump.



6.

Install the RH fender splash shield. Refer to: Fender Splash Shield .

7.

Install the engine appearance cover and the oil fill tube cap.