

# **Component Procedures: Vacuum Brake Booster**

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# Component Procedures: Vacuum Brake Booster

## Parts and Labor (itype\_189)

### Parts

Qualifier	Part #	Name	Price	Note
Brake Booster	92234618	Brake Booster	199.71	

### Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Hydraulic System > Brake Booster, R&R	B	1.7	1.2

## Power Vacuum Brake Booster Replacement (Article 10698)

### Removal Procedure

- Disconnect the power brake booster vacuum sensor electrical connector, if equipped. Click for full-size image
- Disconnect the power vacuum brake booster check valve (1) and hose assembly.
- Position the check valve and hose aside.
- Remove the master cylinder . Refer to Brake Master Cylinder Replacement .
- Remove the brake booster pushrod retainer bolt (1). Click for full-size image
- Remove the brake booster pushrod retainer (1). Click for full-size image
- Remove the brake pedal assembly nuts (1). Click for full-size image
- Disconnect the brake booster pushrod from the brake pedal pivot pin.
- Remove the power vacuum brake booster from the vehicle.

### Installation Procedure

- Install the power vacuum brake booster to the vehicle.
- Install the brake pedal assembly nuts (1) and tighten to 17 Nm (13 lb ft) . Click for full-size image
- Connect the brake booster pushrod to the brake pedal pivot pin.
- Install the brake booster pushrod retainer (1). Click for full-size image
- Install the brake booster pushrod retainer bolt (1) and tighten to 2 Nm (18 lb in) . Click for full-size image
- Connect the power vacuum brake booster check valve (1) and hose assembly. Click for full-size image
- Connect the power brake booster vacuum sensor electrical connector, if equipped.
- Install the master cylinder. Refer to Brake Master Cylinder Replacement .

## Power Brake Booster Vacuum Check Valve and Hose Replacement (LFX) (Article 10693)

### Removal Procedure

- Apply the brake pedal several times until the pedal becomes firm to deplete the vacuum reserve in the brake booster . Click for full-size image
  - Remove the rear intake manifold cover. Refer to Intake Manifold Cover Replacement - Rear .
  - Disconnect the power brake booster vacuum sensor electrical connector.
  - Remove the check valve (1) from the vacuum brake booster .
  - Release the clamp and remove the power brake booster vacuum hose (1) from the vacuum port on the LH side of the intake manifold. Click for full-size image
  - Release the power brake booster vacuum hose quick connect (1) from the power brake booster vacuum pump .
- Remove the power brake booster vacuum hose and check valve assembly from the vehicle. Click for full-size image

- Remove the check valve from the vacuum brake booster hose, if necessary.

### Installation Procedure

- Install the check valve to the vacuum brake booster hose, if removed. Click for full-size image
  - Install the power brake booster vacuum hose and check valve assembly to the vehicle.
  - Connect the power brake booster vacuum hose quick connect (1) to the power brake booster vacuum pump.
  - Install the power brake booster vacuum hose (1) to the vacuum port on the LH side of the intake manifold.
- Position the clamp and secure the hose to the vacuum port. Click for full-size image
- Install the check valve (1) and hose assembly to the vacuum brake booster. If necessary, a small amount of denatured alcohol may be used as a lubricant for assembly. Do not use soap. Click for full-size image
  - Connect the power brake booster vacuum sensor electrical connector.
  - Install the rear intake manifold cover. Refer to Intake Manifold Cover Replacement - Rear .