



Heavy-Duty Dual Diaphragm Brake Booster & High-Pressure Master Cylinder

Part #: RT31023, RT31024

This Heavy-Duty Power Brake Conversion Kit is designed for 1997-2006 Jeep® TJ Wrangler. It converts the factory single diaphragm brake booster to a dual diaphragm brake booster, resulting in more stopping power with less pedal pressure.



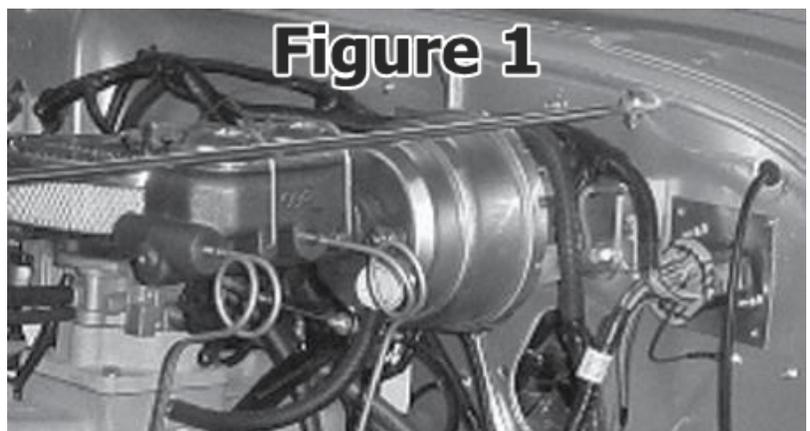
1. Ensure all components in the kit are accounted for.
2. Secure the vehicle with chock blocks to prevent it from rolling.
3. Place a catch can under the brake lines and disconnect the brake lines from the master cylinder to the proportioning valve. Allow all brake fluid in master cylinder to drain into a catch can prior to removing. Be careful to not allow brake fluid to come in contact with paint as it will damage the clear coat.
4. Disconnect the brake booster from the brake pedal by removing the clip from the stud on the brake pedal. If the vehicle has a switch mounted to the brake pedal, note the position of the switch prior to removal.
5. Remove the vacuum line at the brake booster.
6. Unbolt the brake booster, master cylinder, and bracket assembly at the firewall and remove from the vehicle.
7. The new Master Cylinder (#1) will require bench bleeding prior to installation. Separate the new master cylinder from the brake booster. Bench bleed using the included bleeding kit (#3) using a factory service manual for bleeding procedure. Take care that the rear plug insert of the Master Cylinder does not fall out.
8. Bolt the heavy duty booster and bracket to the firewall using the existing hardware. After having bench bled the master cylinder bolt it back to the booster.

NOTE: Some applications may require small adjustments to the push rod at the front of the booster.

9. Install the included adjustable push rod adapter (#2) onto the push rod on the backside of the booster. Adjust it until there is no free play.
10. Once adjusted, properly tighten the jam nut on the push rod and connect to the brake pedal using the factory clip. If the vehicle has a switch mounted to the brake pedal, install it in the same orientation it was when it was removed.

NOTE: The brake pedal will be higher with the heavy duty master cylinder and brake booster than with the factory assembly. Adjusting the push rod adapter so the brake pedal is at the factory height will cause damage to the brake booster and master cylinder.

11. Install the vacuum line onto the booster.
12. Install the brake lines from the master cylinder to the proportioning valve. Replacement of the factory brake lines is suggested. Ensure to add a loop in the brake line to accommodate any movement of the master cylinder (See Figure 1).

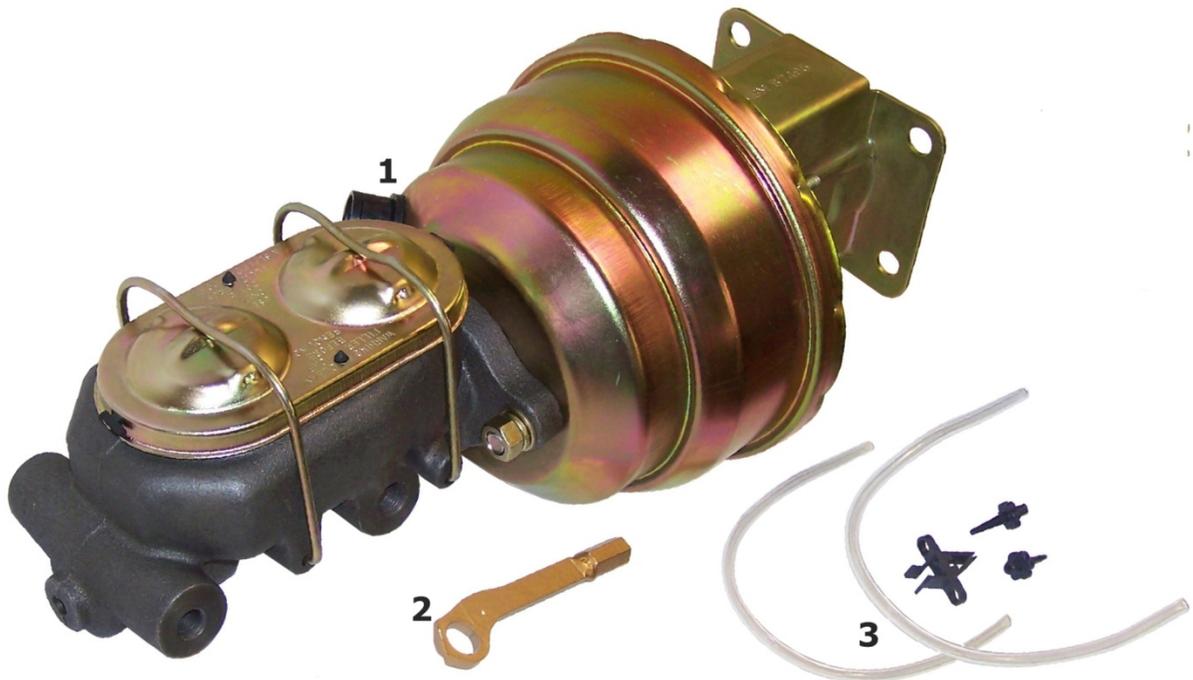


NOTE: The front port of the master cylinder goes to the front brakes. If running 4-wheel disc brakes or heavy duty axles, we recommend installing an adjustable proportioning valve in place of the stock proportioning valve to get adequate pressure to the rear brakes for optimum stopping power.

13. Once the brake system is sealed and all the lines are tight the brake system should be bled. Refer to a factory service manual for brake system bleeding procedure.
14. Ensure proper function of the brake lights.
 - a. To adjust the brake light switch on a CJ simply loosen the jam nuts and adjust the position of the switch so it functions properly; then tighten the jam nuts to the bracket. (See Figure 2)
 - b. The YJ Wrangler brake light switch should not require adjustment to work properly. If the brake lights are not functioning properly ensure the switch is installed properly.
 - c. An inline hydraulic brake light switch is another option to get the brake lights to work properly.



Figure 2



Kit Contents

1. Heavy Duty Brake Master Cylinder & Booster w/ Bracket
2. Adjustable Push Rod Adapter
3. Brake Bleeding Kit

Warranty: All merchandise is warranted to be free from defects in material and workmanship prior to installation. Any alteration or improper use will void this warranty. Because this item is intended for heavy-duty applications, it is not possible to warranty or guarantee the performance of this product.

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