

PLEASE READ THIS FIRST!

Take time to read all of the literature that came with your brake kit and to check the provided list of parts against what you received to be sure that you are fully prepared to complete your brake changeover!

Your kit was designed to make the process of changing your brake parts as simple and painless as possible. However, in some cases, you will find it necessary to make minor changes to your car, so be prepared to do that. Also, please allow enough time to complete the job properly. It is not unusual for you to encounter something unforeseen and have to make a modification or ask a question.

We are constantly updating our literature to reduce and help you answer your own questions. You can find technical help in the packet we provide with your kit or on the website at: (www.911brakes.com). You may also call our technical department Monday - Friday between the hours of 8:00 am & 5:00 pm, Eastern standard time at: (888-533-1199). Be advised that you may be asked to leave your name, phone number, account information, and the description of the problem you are experiencing. If this happens then please leave this information, so when your call is returned, our tech department will be fully prepared to deal with your problem. This will keep time on the phone to a minimum, which gets you back to your task at hand as soon as possible and allows us to help others.

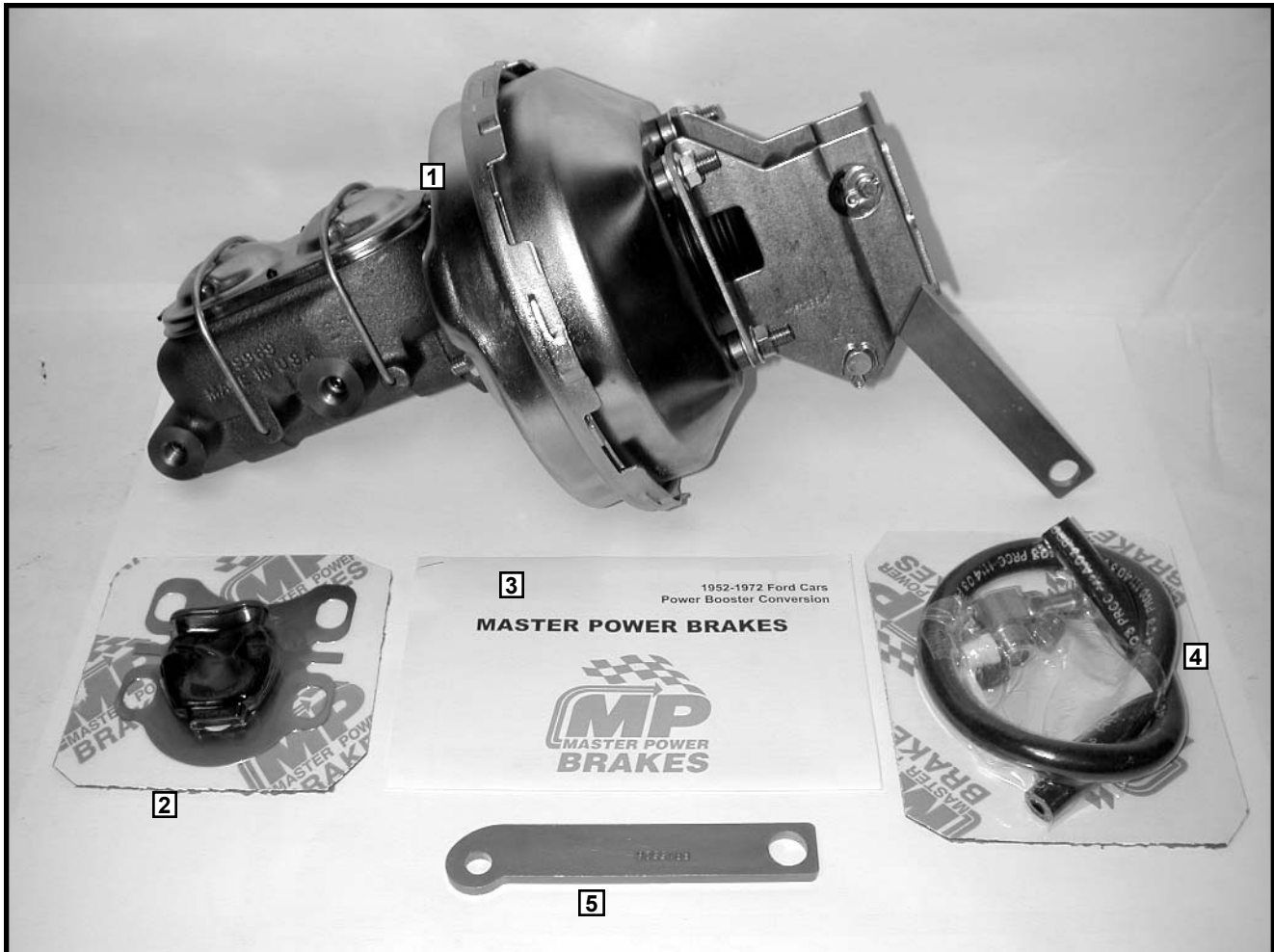
*Once again,
Thanks for choosing Master Power Brakes!*

NOTE

Proper operation of your brakes is essential for your safety and the safety of others, so any brake service should be performed by persons experienced in the installation and proper operation of brake systems. It is the responsibility of the person installing any brake component or kit to determine the suitability of the component or kit for that particular application.

BM1503

Booster & Master Parts List



Parts included in the box:

1. (1) Booster and master unit with bracket and push rod assembly.
2. (1) Firewall plate and boot kit.
3. (1) Set of instructions.
4. (1) Vacuum hose kit.
5. (1) Short push rod

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Installation Instructions

WARNING:

Installation of any component or kit should only be performed by persons experienced in the installation and proper operation of brake systems. It is also the responsibility of the person installing any brake component or kit to determine the suitability of the component or kit for that particular application.

NOTE:

Before operating the vehicle after installation test the function of the brakes under controlled conditions. Make several stops in a safe area from low speed and gradually work up to normal speeds. **DO NOT DRIVE WITH UNTESTED BRAKES!**
Always utilize safety restraints when operating the vehicle.

STEP 1:

Be sure to check to be sure that your kit has all the necessary parts needed to complete this project! (Use the supplied parts list as a check list.)

STEP 2:

Remove the following components from your car:

Tech tip: Prior to disassembly spray the nuts and bolts that you will be removing with a penetrant. (Also disconnect the battery to eliminate the risk of draining the battery or an electrical short.)

1. Disconnect the brake lines to the master cylinder.
2. Next, remove the push rod from the brake pedal.
3. Then remove the old manual master.

STEP 3:

Things to prepare before assembly of the new booster & master kit.

1. Remove the new master cylinder from the booster assembly.
2. Bench bleed the new master cylinder to remove all the air. If all the air is removed from the master, then it will be difficult to push the piston in.

How to bench bleed:

Remove the master from the booster and place in a vice. (Be sure to clamp onto the mounting ear and not the cylinder.)

Install the proper size plugs in the outlet ports of the master.

Fill the master cylinder to the full line with brake fluid.

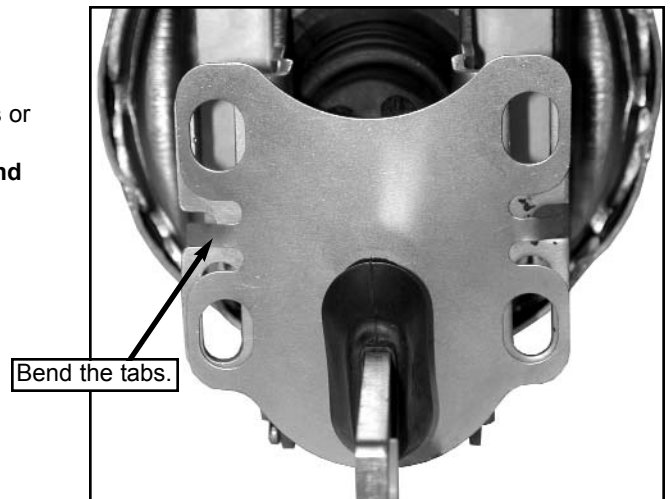
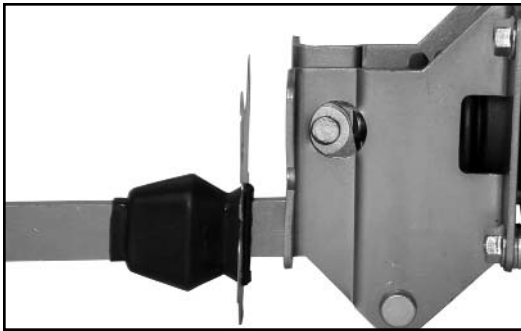
Use a rounded end rod or a phillips head screw driver and push the piston in repeatedly until no bubbles are visible.

NOTE: This may take a minute or two of continuous pumping!

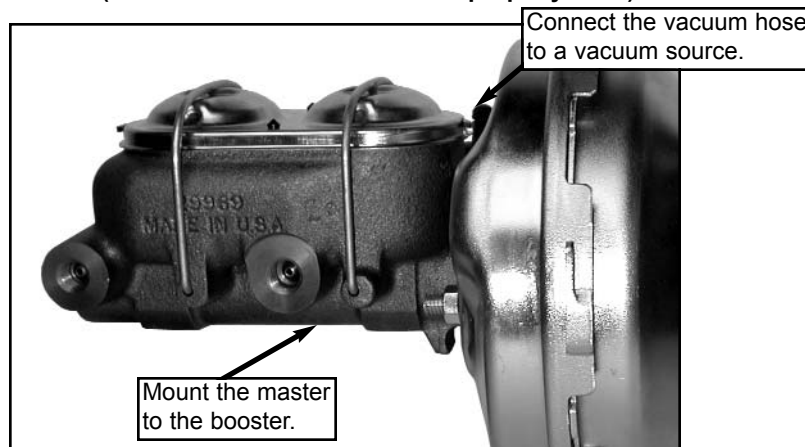
STEP 4:

Installation of booster & master components:

1. Install the new booster with bracket to the firewall using the four studs or holes where the original master was located and secure. **(Be sure to place the firewall boot and plate between the booster brackets and the firewall.)**



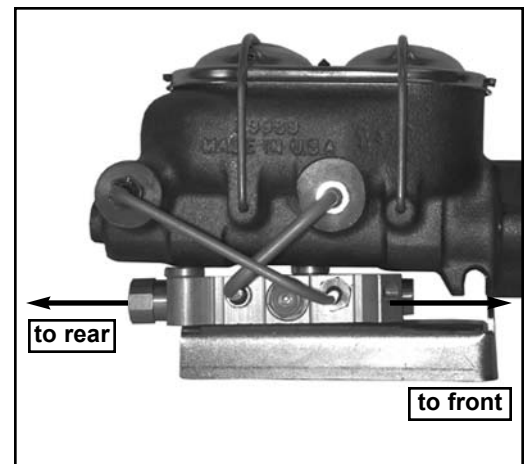
2. Now attach the booster push rod to the original location on the brake pedal using the existing hardware. **(The push rod should attach with no pressure on the pedal.)** Adjust the push rod to have approximately 1/4" free play at the top of the pedal.
3. Mount the master cylinder to the booster. **(Make sure that the master was properly bled.)**



4. Connect the vacuum fitting and the hose to either the intake manifold or to the rear of the carburetor. Make sure that the vacuum source on the carburetor is manifold vacuum and not timed vacuum. **Note: The engine must provide a minimum of 18" of vacuum for the booster to work effectively.**

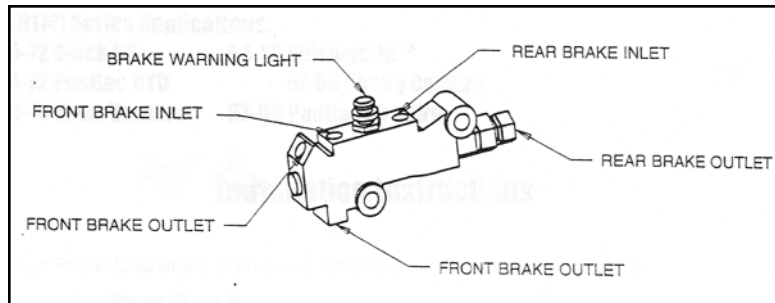
5. Attach the brake lines to the master. If your kit came with a combination valve go ahead and install it, as per the supplied valve kit instructions. **Note: It is important to remove any factory installed valves from the system. Failure to do so could result in a nonfunctional brake system.**

6. On vehicles which had a single outlet master cylinder you will need to install a new hard line from the proportioning valve outlet to a "T" fitting and then on to the rear wheels. There are two outlets for the front wheels on the combination valve. You have the option of running a line from each wheel to each outlet or running both lines to a "T" fitting and then one line into one of the outlets. **(In this scenario, you will have to plug the unused outlet.)** Either way is acceptable and neither routing has improved braking performance over the other. **(Be sure to keep all lines away from exhaust, steering or other things that could harm them.)**



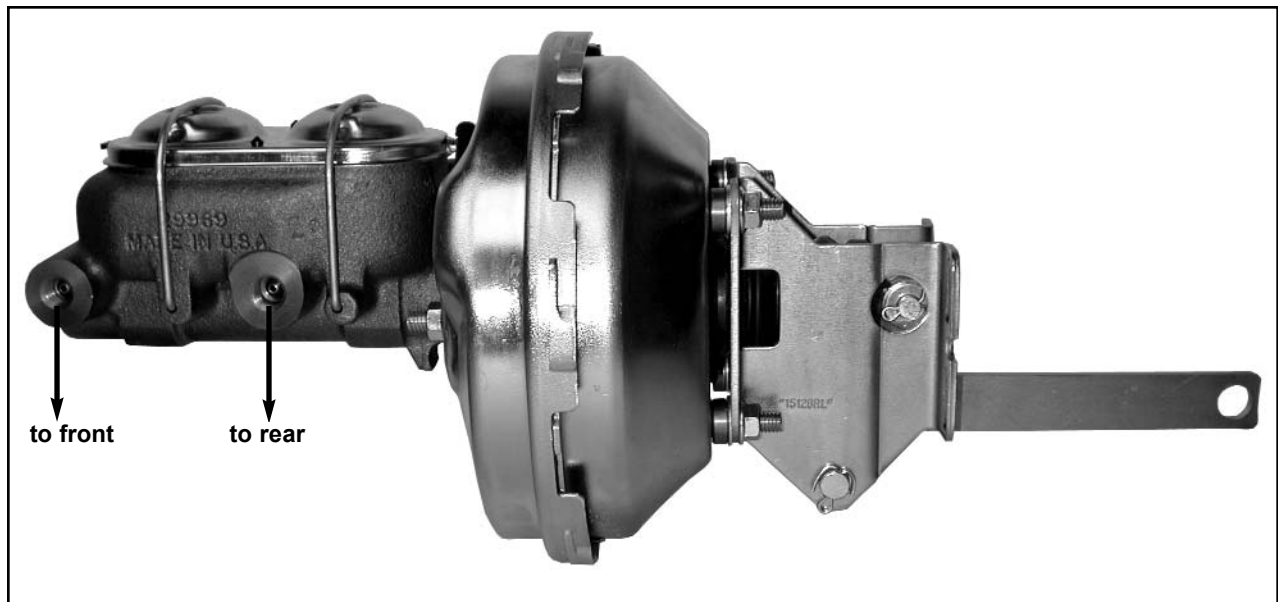
9. When the valve is plumbed correctly and all hard lines are attached, bleed the entire system.

10. If you are not using a combination valve, or you have four wheel drum brakes, you will need to run one line from the master cylinder to the front and one to the rear. The outlet furthest from the booster will feed the front brakes. We recommend that you use a 10lb residual valve on both the front and rear drum brakes to provide a firmer pedal feel.



8. Reconnect the battery and start the engine. Test the brakes. If the pedal goes to the floor or is very spongy then bleed the system once again.

9. Test drive the car in a safe location before driving.



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