

## Master Cylinder Adapter Kit (MMBAK-8)

### Pre-Installation

*The brake booster pushrod must be adjusted before installing the new master cylinder. Follow the steps below if the pushrod has not been properly adjusted.*



*Read all instructions before beginning work. Following instructions in the proper sequence will ensure the best and easiest installation.*

Thank you for purchasing the Maximum Motorsports 1994-95 Cobra Master Cylinder Adapter Kit, MMBAK-8. This adapter kit is required when installing a 1994-95 Cobra Mustang master cylinder into a 1987-93 Mustang. The MMBAK-8 uses only high pressure rated fittings and lines that are designed for use in automotive brake systems. No cutting or flaring of brake lines is needed with this kit.

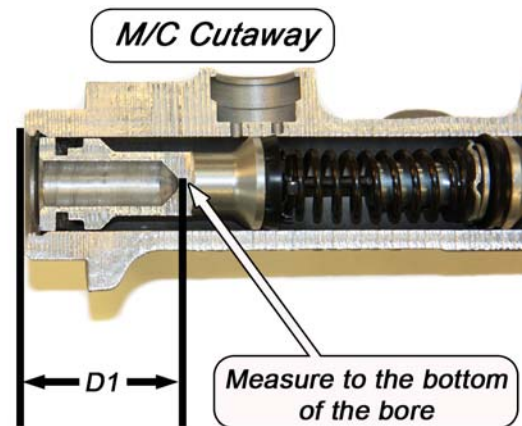
The MMBAK-8 kit allows installing a 1994-95 Cobra Mustang master cylinder in a 1987-93 Mustang with either the stock location proportioning valve, or with the MMBAK-6 Proportioning Valve Eliminator Kit. It provides brake lines (with the proper fittings on each end) that fit the master cylinder while retaining the rest of the vehicle's stock brake line routing.

**NOTE:** The master cylinder must be installed before proceeding with the following installation steps. See the pre-installation guide below.

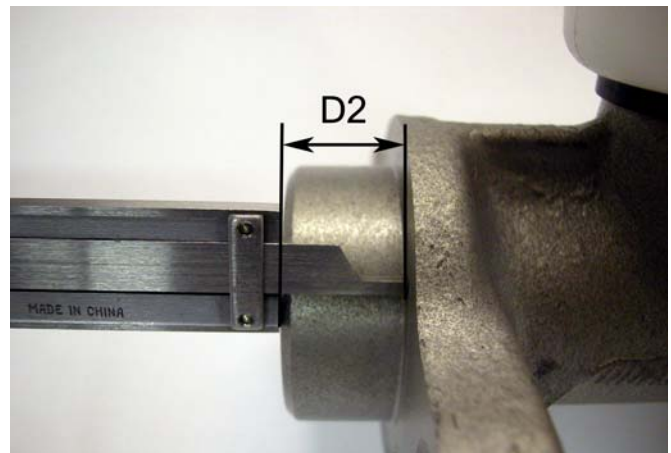
**NOTE:** New master cylinders should always be bench bled before installation.

**NOTE:** If you are unfamiliar with brake bleeding techniques, consult a service manual for further information on bleeding air from the brake system.

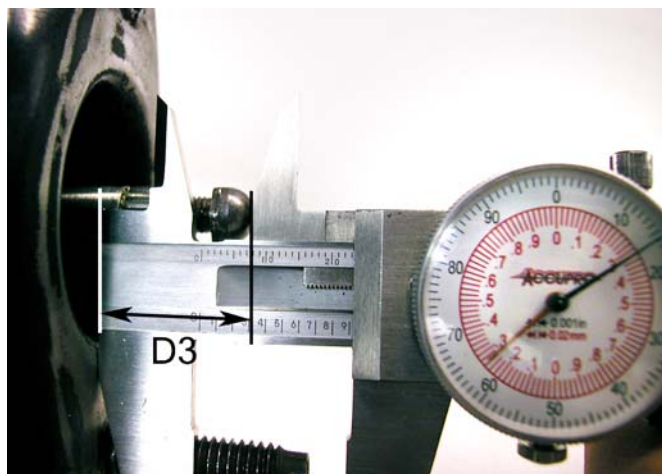
1. Measure the pushrod bore depth and record this dimension as D1. Be sure to measure from the back face of the master cylinder to the very bottom of the radius in the pushrod bore.



2. Measure the distance from the back of the master cylinder to the back face of the mounting flange and record this dimension as D2.



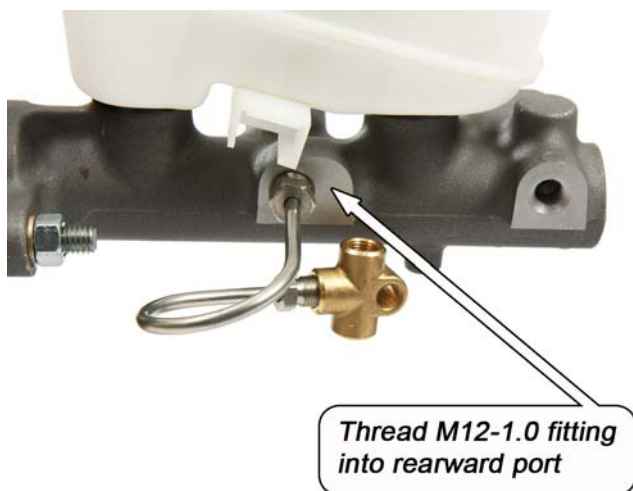
3. Subtract D2 from D1 and record this dimension as D3.
4. Measure the distance that the pushrod protrudes from the master cylinder mating surface on the brake booster. Be sure to measure to the tip of the pushrod. Adjust the length of the pushrod to be slightly less (.005" to .010" than D3 from Step 3. This will prevent accidental pre-load of the master cylinder from the brake push rod.



5. Install the new master cylinder onto the brake booster. Torque the nuts to 25 ft-lbs.

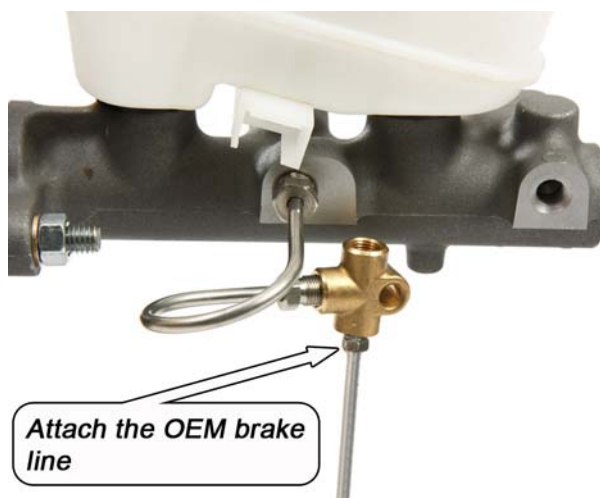
### Installation

6. If still connected, remove the two stock brake hard lines that connect to the top of the stock proportioning valve, located on the driver side strut tower.
7. Thread the M12-1.0 bubble flare end of the "Rearward Port" labeled brake hard line into the rear port of the master cylinder. Position the Tee fitting forward of the port, above the stock proportioning valve.



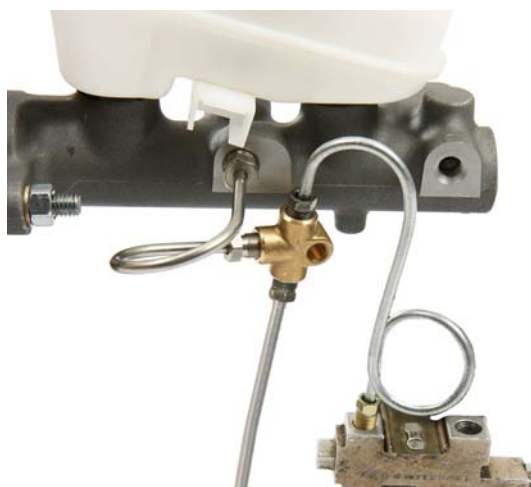
8. Attach the OEM brake line that was connected to the bottom of the old master cylinder to the bottom port of the Tee fitting. Only make the connection finger tight at this time.

NOTE: This line must be bent into position directly beneath the Tee fitting before attempting to connect it to the fitting.



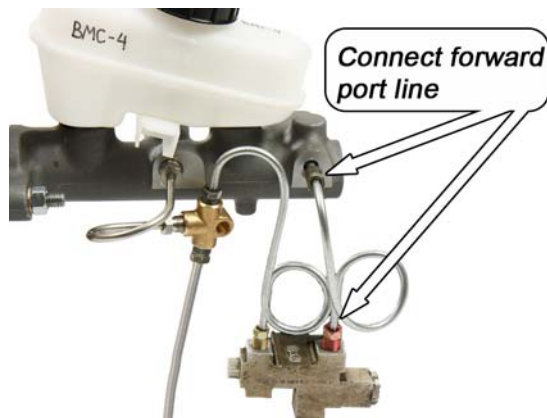
9. Thread the M10-1.0 end of the M10-1.0 to 3/8-24 brake hard line into the remaining port on the Tee fitting, and thread the free end into the rearward port of the stock proportioning valve.

NOTE: Due to vehicle production tolerances, some of the supplied brake hard lines may need to be slightly adjusted for final fitment.



10. Thread the M10-1.0 bubble flare end of the "Forward Port" labeled brake hard line into the front port of the master cylinder. Position the free end of the hard line above the forward port of the stock proportioning valve.
11. Thread the free end of the brake hard line into the forward port of the stock proportioning valve.

NOTE: Due to vehicle production tolerances, some of the supplied brake hard lines may need to be slightly adjusted for final fitment.



12. Tighten the ends of the brake hard lines to 12-16 ft-lbs at the master cylinder and the proportioning valve.
13. Bleed the brakes in the order shown below and check all fittings for leaks.

**Front of Car**

|          |          |
|----------|----------|
| <b>4</b> | <b>3</b> |
| <b>2</b> | <b>1</b> |

**This kit contains:**

- 1 M12-1.0 to M10-1.0 Rearward Port Brake Hard Line
- 1 M10-1.0 Tee fitting
- 1 M10-1.0 to 3/8-24 Brake Hard Line
- 1 M10-1.0 to 7/16-24 Forward Port Brake Hard Line