



**Master Power Brakes**  
**Remote Fill Master Cylinder Kit**  
 Various Applications  
 P/N: MC1001 & MC1002 Series



MC1001MAKG Shown w/optional Billet Aluminum Reservoir

Thank you for purchasing the Master Power Brakes Remote Fill Master Cylinder Kit. This is a great way to put a master cylinder under the vehicle while still being able to fill the master cylinder without laying on your back under the car. The system includes all of the necessary parts to mount under the car in a Manual or Power brake scenario. The MC1001 series has ports on the LH side of the master cylinder while the MC1002 series has ports on the RH side of the master cylinder.

Parts List	
Quantity	Description
1	1" Bore Remote Fill Master Cylinder
2	Brass adapters with 90° Hose Barb Fittings (Installed in master cylinder) – Used in MC1001 Series only
1	Aluminum plate with 90° Hose Barb Fittings (Installed in master cylinder) – Used in MC1002 Series only
1	Remote Fill Reservoir
2	5/16" Hose Bard w/ ¼"-NPT Threads
12	5/16" EPDM Rubber Hose
1	Syringe Bleeder w/Rubber Tip
4	Hose Clamps
2	Master Cylinder Line Plugs

**Installation Notes:**

- Due to the location of the reservoir above the master cylinder, residual valves are not required when using this system. A residual valve would be used to prevent the brake fluid from returning back into the master cylinder. Because the reservoir is located remotely from the master cylinder, this is not necessary.
  
- Make sure the reservoir is located enough above the master cylinder to allow the fluid to the master cylinder without having to travel uphill.

- If using the Power Kit and installing the master cylinder on a power brake booster, some adjustments may be required to the booster. The Power master cylinder has a shallow hole in the back of the piston. When assembling the master cylinder to the booster, verify the booster pin has 0.020" gap between the pin and the back of the piston. This can be achieved through careful measurement of by using our p/n: AC2003 Booster Pin Depth Gauge seen below in Figure 1.



Figure 1 - P/N: AC2003 – Booster Pin Depth Gauge

- For plumbing, use the photos below in Figure 2a and 2b for front and rear port locations.

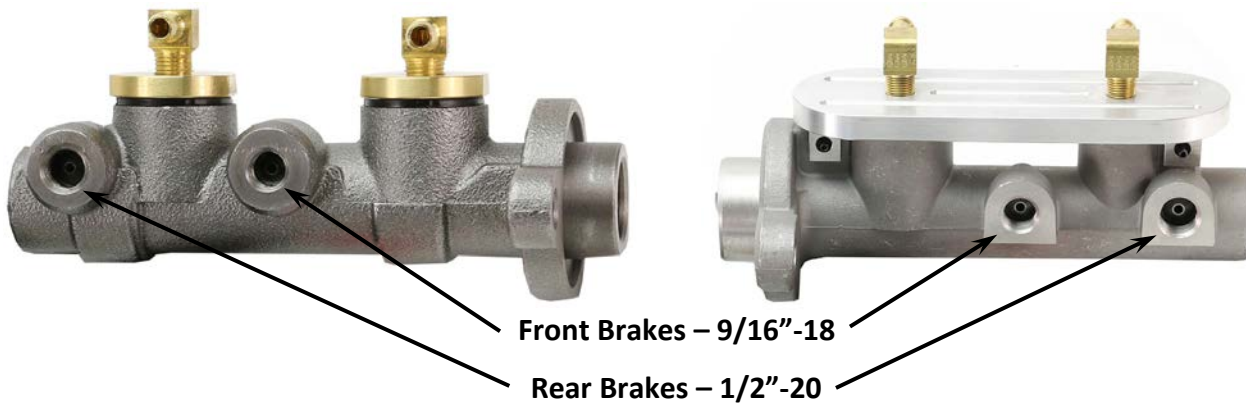


Figure 2a – MC1001 Series Port Location

Figure 2b – MC1002 Series Port Location

- Bleeding the master cylinder is required. Syringe bleeding is the least complicated when using a remote reservoir and is explained below.

**Syringe Bleeding** (Tools provided in system)

1. Mount the master cylinder on the vehicle with the reservoir plumbed into the system. NOTE: If bench bleeding is preferred, mocking up of the system on the bench will be required.
2. Pour brake fluid into each chamber of the reservoir to between  $\frac{1}{4}$  and  $\frac{1}{2}$  full.
3. Using the syringe with the rubber tip attached, fill the syringe using the fluid in the reservoir chamber. Fill the syringe to about half full.
4. Press the rubber tip to the port on the master cylinder. Holding the syringe firm against the master cylinder, inject the fluid into the master cylinder. The fluid as it flows into the master cylinder will turn from bubbles in the chamber to a steady stream of fluid.
5. When pulling the syringe away from the master cylinder, fluid will drip from the port so have a damp towel handy to wipe off the master cylinder especially if you have painted it.
6. Plug the port with the provided plastic plugs.
7. With the hose attached, verifying that all air has been removed from the master cylinder will not be possible. It is recommended that the steps above be performed two to three times on each port to verify proper bleeding of the master cylinder.

If you have any questions or comments, please call Master Power Brakes at (888) 351-8781.