Tilton master cylinders are engineered to provide optimum performance at a moderate cost. The included components in the kit enable direct-mounting or remote-mounting of the fluid reservoir. The master cylinders are made of lightweight aluminum and have a black anodized coating to prevent wear and corrosion. Included are a 3/16" inverted flare fitting and AN3 adapter. Tilton master cylinders set the standard for the industry and are a direct replacement for master cylinders that have a 2.25", 2-bolt mounting pattern.

**Installation notes**
- Mount the reservoirs above the calipers to prevent fluid bleed back from the calipers to the master cylinders.
- Make sure that all of the parts are clean before assembling.

**Diagram 1 - Master Cylinder Kit and Replacement Parts**
7. Slide the selected reservoir onto the remote-mounting bracket and secure it with the wire clamp.
8. Place the wire clamp so that one wire of the clamp is above the o-ring and the other wire is below the o-ring.
9. Do not over tighten the wire clamp or you might damage the reservoir. It should be “snug”.
10. Insert the reservoir filter into the reservoir properly by referring to Diagram 1.
11. Thread the reservoir cap onto the reservoir to keep dirt out.
12. Attach one end of the rubber hose onto the nipple of the remote-mounting bracket.
13. Secure the hose to prevent damage or wear against other components.

**BRAKE BLEEDING**

**Required Equipment**
- Bleeder kit
- Proper wrenches
- An adequate supply of DOT 3 or 4 brake fluid
- If the vehicle has a dual master cylinder brake system then both of the systems must be bled simultaneously. See Bleeding Order section for proper order.

**Priming Master Cylinder**
1. Fill the master cylinder reservoir with brake fluid.
2. Slightly loosen the fitting at the master cylinder.
3. Gently depress and release the brake pedal until fluid emerges.
4. Tighten the fitting.
5. Select the bleeding order that fits your application from Bleeding Order section.

**Brake Bleeding**
1. Fill a clear bottle with enough brake fluid to keep the hose ends submerged.
2. Attach the other end of the plastic bleeder hose to the caliper bleed-screw.
3. Be sure the hoses stay submerged throughout the procedure to prevent sucking air on the return stroke of the pedal.
4. Depress the brake pedal with slow and gentle foot pressure.
5. Open the caliper bleed-screw.
6. Allow the pedal to drop to the fully depressed position.
7. Close the caliper bleed-screw.
8. Allow the pedal to return to the relaxed position.
9. Wait several seconds and then repeat steps 4 through 8 until air has been removed from the system.

**MAINTENANCE**
The brake system should have the brake fluid replaced and the brake bleeding procedure performed before each event.

**MASTER CYLINDER REBUILD KITS**
Refer to this table for the appropriate rebuild kit.

<table>
<thead>
<tr>
<th>Cylinder Bore Size</th>
<th>Cylinder Kit</th>
<th>Rebuild Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; bore</td>
<td>75-625U</td>
<td>75-625RK</td>
</tr>
<tr>
<td>7/10&quot; bore</td>
<td>75-700U</td>
<td>75-700RK</td>
</tr>
<tr>
<td>3/4&quot; bore</td>
<td>75-750U</td>
<td>75-750RK</td>
</tr>
<tr>
<td>13/16&quot; bore</td>
<td>75-812U</td>
<td>75-812RK</td>
</tr>
<tr>
<td>7/8&quot; bore</td>
<td>75-875U</td>
<td>75-875RK</td>
</tr>
<tr>
<td>1&quot; bore</td>
<td>75-1000U</td>
<td>75-1000RK</td>
</tr>
</tbody>
</table>

**BLEEDING ORDER**

- **Fixed calipers, 2 Master Cylinders**
  1. Front & rear passengers side, inboard
  2. Front & rear passengers side, outboard
  3. Front & rear drivers side, inboard
  4. Front & rear drivers side, outboard

- **Floating calipers, 2 Master Cylinders**
  1. Front & rear passengers side
  2. Front & rear drivers side

- **Floating calipers, 1 Master Cylinder**
  1. Start at the caliper furthest from the master cylinder.
  2. Work your way in, bleeding the next closest caliper.

- **Fixed calipers, 1 Master Cylinder**
  1. Start at the caliper furthest from the master cylinder. Bleed the inboard side and then the outboard side.
  2. Proceed to the next closest caliper.

**Upon Completion**
After bleeding, minimal brake pedal travel should be observed. Properly bleeding the brakes does not require any power equipment or a massive amount of applied pedal force.