Introduction to this Manual

This manual is intended to provide the information necessary for normal maintenance and service of the Hayes Disc Brake system. Although the steps and procedures are relatively simple, they should not be attempted until you are thoroughly familiar with the entire set of procedures. Photographs of actual hardware have been provided to help you in the steps and procedures.

Cautions, Warnings, Notes, etc

Within this manual are specifically labeled comments intended to bring special attention to a general procedure or detailed steps. Be aware of, and understand, the meaning of these labels.

**Warning:** Means that there is the possibility of personal injury to yourself or to others.

**Caution:** Means that there is the possibility of damaging the brake or the bike.

**Note:** Provides general information.

**Hint:** Provides information that can help you properly complete a specific procedure.

Safety Info

**Warning:** As a serious rider you are well aware of the need to practice safety in all aspects of the sport. This includes service and maintenance practices as well as riding practices. Before each ride, always check your brakes for proper function and the brake pads for wear. When you ride, always wear a helmet.

**Warning:** When you need to install any of the disc brake components, that installation work should be done by a qualified technician with the proper tools. Improper installation could cause severe or fatal injuries.

**Warning:** This brake has been designed for use on a single person mountain bike. The use on any other vehicle or device will void the warranty and can cause serious injury.

**Warning:** With use, disc brake components may become very hot. Always allow components to cool before attempting to service your bike.

**Warning:** When following any of the procedures below, be sure to keep your hands and fingers from getting caught in the disc. Failure to do so could result in injury.

**Warning:** For riders using the brakes in downhill conditions, it is recommended that you use the 8” disc version of the Hayes Brake. Not all frames and forks will accept the 8” disc. Please check with your frame or fork manufacturer or www.hayesdiscbrake.com for 8” disc compatibility. Consistently using the 6” disc in downhill conditions may cause the brake fluid to boil.

**Warning:** If your bike is involved in a fall or crash it is recommended you check your brakes before riding to ensure they are functioning properly. The following checks should be performed: Check that all components are securely mounted to the handlebar, frame, fork, or wheel; check for proper pad installation and retention; check that the brake builds and holds pressure; check hose and fittings for kinks or leaks; check master cylinder body and caliper for damage. Always have a qualified bike mechanic check your brakes if you suspect damage.

Starting Out

**Recommended Fluids and Lubricants**

Use only DOT 3 or DOT 4 brake fluid. Do not use any petroleum-based lubricants, as this will cause the rubber parts to swell. Hayes recommends the use of DOT 4 or DOT 3 brake fluid. Clean the disc and pads only with isopropyl alcohol.

**Personal Preference Adjustments**

In most cases, the Hayes Disc Brake system has been pre-assembled for your bike. However there are a couple of adjustments that you can make to match your particular physical characteristics or personal preferences.

**Positioning the Master Cylinder and Lever**

1. Loosen, but do not remove, the handlebar clamp screw.
2. Then, position the Master Cylinder and Lever on the handlebar in your desired position.
3. Torque the handlebar clamp screw to: 30 +/- 5 in-lbs (3.39 +/- .55Nm)

**Lever Reach Adjustment**

1. Adjust the brake lever reach by using a 2.0 mm Allen wrench and turning the push rod that goes through the lever adjusting bushing. Do not attempt to force the adjustment screw beyond its limits.

**Burnish**

Disc brakes require a special burnish period to achieve maximum braking power. This burnishing period lasts for about 30-40 stops. During this period some noise may occur.
Installation

The following procedures cover the installation of Hayes Disc Brakes purchased as an aftermarket item. If you have purchased a bike new - with Hayes Disc Brakes already installed - you will not immediately require all of the procedures. When you need to install any of the disc brake components, a qualified technician with the proper tools should do that installation work. Improper installation could cause severe or fatal injuries.

A. Tools Required

- Torx T25 driver
- Open-end wrenches; 6mm, 8mm, 10mm
- Scissors or cable cutters
- Small Phillips screwdriver
- Torque wrench
- Small flathead screwdriver
- Allen drivers: 2.0mm, 4mm, and 5mm

B. Mounting the Disc to the Hub

**Note:** Mounting the brake disc to the wheel is a simple matter, but one that requires care. If the wheel has to be rebuilt, have it done by a qualified technician using a 3 cross spoke pattern. We recommend the use of steel, quick release skewers only.

1. Clean the disc and the hub-mounting surface with isopropyl alcohol (not disc brake cleaners).
2. Place the disc on the hub-mounting surface. Be sure that the arrow on the disc is pointing in the same direction of the forward wheel rotation.
3. Using a Torx T25 driver, install, tighten, and torque the disc screws to 50 +/- 5 in-lbs (5.65 +/- .55 Nm), in a star pattern sequence.
4. Check and re-torque the disc screws after 12 hours

**Warning:** Do not touch the disc immediately after use - it will be hot.

C. Mounting the Caliper to the Frame or Fork

**Warning:** When following any of the procedures below, be sure to keep your hands and fingers from getting caught in the disc. Failure to do so could result in injury.

1. Remove the wheel(s).
2. For some installations it will be necessary to mount a mount bracket to accept the Hayes Disc Brake caliper. Mount the mount bracket to the frame or fork using (2) M6 x 1.0 /18.4mm long mount bolts. Torque the bolts to 110 in-lbs (12.43 Nm).
3. Mount the caliper to the frame or mount bracket using (2) M6 x 1.0 /18.4mm long mount bolts and (2) mount washers. Snug the bolts, but leave them loose enough so that caliper will move on its slots.
   **Caution:** For post mount forks you will need to use (2) M6 x 1.0 / 22mm long mount bolts. These bolts are supplied in your aftermarket kit or supplied from the bike manufacture. Failure to use the longer bolt may result in fork damage that will not allow you to tighten down your caliper properly.
   **Caution:** For post mount forks, torque the mounting bolts to 80 +/- 5 in-lbs. (9.0 +/- 0.55 Nm).
4. Re-install the wheel(s).
5. Squeeze and hold the brake lever. While holding the brake lever, shake the caliper to position it in its natural centered position over the disc. While squeezing the lever, tighten the mounting bolts.
   **Warning:** Do not adjust the caliper while the caliper is hot.
   **Warning:** Do not adjust the caliper while the wheel is spinning.
6. Release the lever, spin the wheel. Check that it spins freely and that the gaps, between the pad and the disc, are equal.
   - If the gaps are unequal, or if there is drag, readjust the caliper position by loosening the mounting bolts and adjusting the caliper as needed.
   **Hint:** A white piece of paper can be used as a background to help sight down the disc looking for equal clearance between the pads and disc.
7. When the gaps are equal and the wheel spins freely (without drag), torque the mounting bolts to 110 +/- 10 in-lbs. (12.43 +/- 1.1 Nm).
   **Caution:** For post mount forks, torque the mounting bolts to 80 +/- 5 in-lbs. (9.0 +/- 0.55 Nm).
8. Repeat above procedure for other wheel.

**Note:** The hose assembly procedure is different for the different brake models and design variations. Pay close attention to which procedure applies for your Hayes disc brake system.

D. Hose Removal

**Master Cylinder Hose Removal**

To take the hose off of the master cylinder end, slide the hose support down the hose. Remove the hose nut by loosenning the nut and sliding it all the way down the hose.

1. Slide the hose off the end of the master cylinder. There will be some residual fluid in the hose and master cylinder. Be careful to avoid spilling that fluid.
   **Caution:** For the HFX-Mag, pull the hose off straight off. Not doing so may result in a broken cartridge tip.
2. A new compression bushing will be needed each time the hose is re-installed. Remove the old compression bushing by cutting the hose next to the compression bushing. The cut needs to clean with no fraying ends.
   **Note:** Check the hose length for adequate travel. If too short, replace hose.

**Caliper Hose Removal - Straight Connection**

1. To take the hose off the caliper end, loosen the hose connection with a 10mm open-end wrench.
2. Remove the hose connection completely from the caliper. Be sure that the hose connection seal is not lost.
   **Note:** The end of the G2 caliper hose is a permanent crimp. Therefore the connection cannot be trimmed to size or repaired. Shortening of the hose must be done at the master cylinder end. If the caliper hose connection is damaged, the hose must be completely replaced with a new hose with a permanent crimp attached.
E. Hose Assembly

Caliper Hose Assembly - straight connection

1. Locate end of hose without the permanent crimp attached.
2. Cut the hose to the desired length with good scissors or cable cutters. The cut end must be clean and perpendicular to the hose itself.
3. Slide the hose cone onto the master cylinder side of the hose.
4. Slide the hose nut over the hose.
5. Push the longer end of the barbed hose insert/compression bushing combination into the end of the hose.
6. Using a 10mm open-end wrench, torque the hose nut to 60 +/- 5 in-lbs (6.78 +/- .55Nm).
7. Bleed the system.

Caliper Hose Assembly - 30 Degree Banjo

1. Install the banjo bolt through the banjo. Be sure that there is a banjo o-ring on each side of the banjo.
2. Position the angle of the banjo to your desired location for your frame or fork.
3. Tighten the banjo bolt to 60 +/- 5 in/lb (6.78 +/- .5 Nm).

HFX – 9, HFX-9 HD Master Cylinder Hose Assembly

1. Locate the end of the hose without the permanent crimp.
2. Cut the hose to the desired length with good scissors or cable cutters. The cut end must be clean and perpendicular to the hose itself.
3. Slide the nose cone onto the master cylinder side of the hose.
4. Slide the HFX-Mag hose nut over the hose.
5. Push the HFX-9 hose nut and compression bushing over the hose. Always use a new compression bushing.
6. Slide the hose into the master cylinder and install the hose nut. Be sure that the hose is inserted completely into the master cylinder end. Be sure the hose remains inserted while tightening.
7. Using an 8mm open-end wrench, torque the hose nut to 75 +/- 5 in-lbs (8.47 +/- .55Nm)
8. Bleed the system

HFX-Mag Master Cylinder Hose Assembly

1. Locate the end of the hose without the permanent crimp attached.
2. Cut the hose to the desired length with good scissors or cable cutters. The cut end must be clean and perpendicular to the hose itself.
3. Slide HFX-Mag hose cone onto the hose.
4. Slide the HFX-Mag hose nut and compression bushing over the hose. Always use a new compression bushing.
5. Slide the hose into the master cylinder and install the hose nut. Be sure that the compression bushing is a gold color.
6. Install hose connection to the G2 caliper.
7. Bleed the system.

F. Bleed Kit Assembly:

1. Screw the cap onto the end of the bottle.
2. Cut a 2” section of hose.
3. Push the short section of hose over the cap until it slides past the ridge on the cap.
4. Push the long section of hose into the master cylinder bleed fitting.

Note: There are three fittings with the kit. The clear, cone shaped fitting is to be used with the HFX Mag and HFX Mag Plus. The silver aluminum fitting is to be used with the HFX-9. The black plastic fitting is to be used with the El Camino.

G. Bleeding the System

Air entrapped in the hydraulic system of the disc brakes can decrease performance of the system and should be removed by “bleeding” the system and replenishing the system with new brake fluid. The system is filled by pumping fluid from the lowest point (at the caliper), through the system, to the highest point, the bleeder on the master cylinder. 

Note: The bleed instructions include steps for the HFX Mag and HFX-9 brake systems. Read them carefully, since instructions vary for the type of brake system you have.

Caution: Use only new DOT 4 or DOT 3 brake fluid from a closed, sealed container. Use of any other fluid can cause the rubber parts to degrade and cause the brake to fail.

Caution: DOT 4 or DOT 3 brake fluid will strip paint. Use extreme caution to avoid getting DOT 4 or DOT 3 brake fluid on paint. If DOT 4 or DOT 3 brake fluid comes in contact with paint, wipe it off immediately and rinse with isopropyl alcohol.

Warning: If you get any brake fluid on the brake pads, discard them and replace with new pads. If you get any brake fluid on the disc, clean it thoroughly with isopropyl alcohol.

Warning: DOT 4 or DOT 3 brake fluid can be an irritant when it comes into contact with human tissue. For skin contact, brake fluid should be washed off in flowing water. For eye contact, the eye area should be irrigated with flowing water immediately and continuously for 15 minutes. Consult with medical personnel. If effects occur from inhaling brake fluid fumes, move to an area with fresh air. Consult a physician. If brake fluid is ingested, induce vomiting and consult medical personnel. Used brake fluid should be disposed of according to local laws.

1. Remove the wheel.
2. Remove the brake pads so that any spilled fluid does not contaminate the pads. Using the tab in the center of the pad backing plate, pull each pad toward the center of the caliper and out. There is a spring that holds the pad in place. That spring snaps on to the post at the center of the piston.
3. Push the caliper pistons all the way into their bores using the box end of a 10 mm end wrench.
   Caution: Don’t push on the post in the center of the piston because that will bend the post. Walk the piston back and forth until the piston is all the way back in the bore. Do the same thing on the other side.
4. Position the bike in a stand so that the brake caliper bleeder screw is perpendicular to the ground, and so that the bleed screw (HFX-Mag) or reservoir plug (HFX-9) on the master cylinder is the highest point on the brake system. This can be done by loosening the master cylinder clamp screws and rotating the master cylinder upright on the handlebars.
5. Remove the master cylinder bleed screw (HFX-Mag) or reservoir plug (HFX-9) and press the fitting with the hose into the hole. The other end of the hose should go into a cup or bottle to catch the excess fluid. Be sure not to submerge the end of the hose in fluid. 

Hint: Taping a spoke to a bottle and bending it to hook around the handlebars makes a convenient hanger.

Note: The HFX-Mag master cylinder bleed fitting is a Phillips head screw and requires the use of the clear cone shape bleed fitting included in the bleed kit. 

Note: The HFX-9 master cylinder reservoir plug is a plastic cap, which needs to be removed with your fingers or a small flat head screwdriver. DO NOT remove the two T-10 Torx bolts holding the cap on. The HFX-9 requires the use of the silver aluminum bleed fitting included in the bleed kit.

6. Completely remove the caliper bleeder’s rubber cap.

7. Fill the plastic filler bottle with fresh DOT 3 or DOT 4 brake fluid.

8. Close the caliper bleeder.

9. Place the hose from the fluid bottle onto the caliper bleeder. Pump the fluid bottle until there is no air in the hose.

10. Open the caliper bleeder 1/4 turn.

11. Squeeze the fluid bottle firmly—forcing fluid into the caliper for a count of five. Stop squeezing - until the bottle returns to its natural shape. When the squeeze is released, air should be drawn out of the caliper. Continue alternately squeezing the fluid bottle, for a count of five, and releasing until no air bubbles come out of the caliper.

12. After all the air is out of the caliper; squeeze the bottle until fluid comes out at master cylinder with no air bubbles.

13. While squeezing the bottle, quickly stroke the lever to the handlebars, and release. Repeat this until no more air bubbles come out of the master cylinder.

14. With the bottle still being squeezed, close the caliper bleeder. Torque should be only to seal the bleeder.

Caution: Do not over torque! Release and remove the bottle and filler hose.
Maintenance

Maintenance Procedures

Due to wear, contamination, or damage, the brake pads will, on occasion have to be replaced.

A. Brake Pad Change

1. Remove the wheel.
2. Using the tab in the center of the pad backing plate, pull the pad toward the center of the caliper and out. There is a spring that holds them in place. That spring snaps on to the post at the center of the piston.
3. Repeat the steps for the other side pad.

To replace the pads...
4. Using the boxed end of a 10mm wrench, push the caliper pistons back until they bottom. This will give you more room to fit in the new pads. Take care not to push on the aluminum post in the center of the piston.
   Caution: Don’t push on the post in the center of the piston because that will bend the post. Walk the piston back and forth until the piston is all the way back in the bore. Do the same thing on the other side.
   Note: There are two different brake pads, an inner and outer – or a right and a left. On the outer pad the tab is offset. On the inner pad the tab is in the center.
5. Put the outer pad in first. Use the tab in the center of the pad backing plate to push the new pads into place. Angle the pad slightly so the post is towards the center of the caliper and push the pad until it snaps into place. Check that the pad is locked into position.
6. Now repeat the procedure for the inner pad.
7. Install the wheel.

B. Piston(s) Pumped Out

If the brake lever is stroked without the disc between the pads (and this is possible when brake pads are being changed), the self-adjusting feature will allow the pads to push out. The caliper pistons will be pumped out of their bore. This will cause excessive drag on the disc when the wheel and disc are reinstalled, or even make it impossible to install the wheel and disc.

To fix this problem…
1. Remove the brake pads from the caliper if they are not already removed.
2. Hint: If the pads are pushed together tight, slide a series of thin cards between the pads to initiate a gap and enlarge the gap until it is large enough to pull the pads out. If you are going to replace the pads anyway, you can use a screwdriver instead of the cards to create the gap. But the screwdriver will break the friction material apart and the pads will definitely have to be discarded.
3. With the pads removed, push the pistons all the way back into the caliper using the box end of a 10 mm end wrench.
   Caution: Don’t push on the post in the center of the piston because that will bend the post. Walk the piston back and forth until the piston is all the way back in the bore. Do the same thing on the other side.
4. When the pistons are back into their bores, replace the pads – putting them in at a slight angle so that the spring catches the post on the piston.

C. Cleaning and Care

The brake disc and pads should only be cleaned with isopropyl alcohol (not disc brake cleaner).
Service

This service segment is designed to assist the reader with the service and repair of Hayes Disc Brakes. Read and be familiar with the instructions. The user should have a good knowledge of mechanical procedures, and should be equipped with proper tools and equipment. Incorrect service or repair may reduce braking performance, and could lead to a safety or personal hazard situation. If you have any doubts about the procedure described, due to limited experience or because of the lack of necessary tools and equipment, contact your local dealer or mechanic. Remember, always “Think Safety.”

A. Troubleshooting

The following chart provides a quick reference as to the possible cause and the normal corrective action for the most common problems.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever goes to the handlebar</td>
<td>Bad Bleed</td>
<td>Re-bleed</td>
</tr>
<tr>
<td></td>
<td>Bad Cartridge</td>
<td>Replace Cartridge and re-bleed</td>
</tr>
<tr>
<td></td>
<td>System Leak</td>
<td>Look for leak and see “Fluid loss” below</td>
</tr>
<tr>
<td>Disc rubbing on the pads</td>
<td>Caliper not centered</td>
<td>Re-center the caliper over disc</td>
</tr>
<tr>
<td></td>
<td>Inadequate clearance</td>
<td>Push pistons back</td>
</tr>
<tr>
<td></td>
<td>Bent Disc</td>
<td>Replace Disc</td>
</tr>
<tr>
<td>Spongy Lever</td>
<td>Bad Bleed</td>
<td>Re-bleed</td>
</tr>
<tr>
<td>No braking power</td>
<td>Dirty disc</td>
<td>Clean disc with alcohol</td>
</tr>
<tr>
<td></td>
<td>Contaminated pads</td>
<td>Replace pads</td>
</tr>
<tr>
<td>Pads fall out</td>
<td>Bent or broken piston</td>
<td>Replace piston post</td>
</tr>
<tr>
<td></td>
<td>Bent or missing spring</td>
<td>Replace pads</td>
</tr>
<tr>
<td>Fluid loss</td>
<td>Banjo leaking</td>
<td>Replace banjo O-rings</td>
</tr>
<tr>
<td></td>
<td>Hose leaking</td>
<td>Tighten hose nut</td>
</tr>
<tr>
<td></td>
<td>Master cylinder bleeder</td>
<td>Replace compression bushing</td>
</tr>
<tr>
<td></td>
<td>Master cylinder cartridge</td>
<td>Replace bleeder screw &amp; O-ring</td>
</tr>
</tbody>
</table>

B. Tools

- Box/Open end wrenches: 6mm, 8mm, 10mm, & 13mm
- Allen wrenches: 2.0mm, 4mm, & 5mm
- Torque wrench: With 4mm, & 5mm bits, & Torx T25 Driver
- Isopropyl alcohol
- Hayes bleed kit
- Bottle to catch drained fluid
- Fresh DOT 4 or DOT 3 brake fluid
- Small Phillips and flat screwdriver
- Approved O-ring Lubricant

Warning: Always wear safety glasses when servicing the brake system or other components of your bike.

Torque Chart

<table>
<thead>
<tr>
<th>Item</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc Screws</td>
<td>50 +/- 5 in-lbs (5.65 +/- .55 Nm)</td>
</tr>
<tr>
<td>Handlebar Master Cylinder Clamp Screw</td>
<td>30 +/- .5 in-lbs (3.39 +/- .55Nm)</td>
</tr>
<tr>
<td>Master Cylinder Jam Nut</td>
<td>50 in-lbs +/- 10 in-lbs (5.65 +/- 1.1 Nm)</td>
</tr>
<tr>
<td>Master Cylinder Bleed Screw (Mag)</td>
<td>2.0-2.5 in-lbs (.023-.026 Nm)</td>
</tr>
<tr>
<td>Reservoir Cap Screws (HFX-9)</td>
<td>4.8 +/- .5 in-lbs (0.54 +/- .05Nm)</td>
</tr>
<tr>
<td>Caliper Bleeder</td>
<td>35 +/- 5 in-lbs (3.95 +/- .55Nm)</td>
</tr>
<tr>
<td>Caliper Bridge Bolts</td>
<td>130 +/- 10 in-lbs (14.69 +/- 1.1 Nm)</td>
</tr>
<tr>
<td>Lever Pivot Pin</td>
<td></td>
</tr>
<tr>
<td>HFX-Mag</td>
<td>15 +/- 2 in-lbs (1.69 +/- 0.23 Nm)</td>
</tr>
<tr>
<td>HFX-9</td>
<td>35 +/- 5 in-lbs (3.95 +/- .55 Nm)</td>
</tr>
<tr>
<td>Caliper Mount Bolts</td>
<td></td>
</tr>
<tr>
<td>74mm Caliper with Mount Bracket</td>
<td>110 +/- 10 in-lbs (12.43 +/- 1.1 Nm)</td>
</tr>
<tr>
<td>74mm Caliper with Post Mount Fork</td>
<td>80 +/- 5 in-lbs (9.0 +/- 0.55 Nm)</td>
</tr>
<tr>
<td>Hose Connection</td>
<td></td>
</tr>
<tr>
<td>Master Cylinder</td>
<td></td>
</tr>
<tr>
<td>HFX-Mag</td>
<td>60 +/- 5 in-lbs (6.78 +/- .55Nm)</td>
</tr>
<tr>
<td>HFX-9</td>
<td>75 +/- 5 in-lbs (8.47 +/- .55Nm)</td>
</tr>
<tr>
<td>Caliper</td>
<td></td>
</tr>
<tr>
<td>Straight Hose Connection</td>
<td></td>
</tr>
<tr>
<td>Banjo Bolt</td>
<td>60 +/- 5 in-lbs (6.78 +/- .55Nm)</td>
</tr>
</tbody>
</table>
Any Hayes Disc Brake found by the factory to be defective in materials and/or workmanship within two years from the date of purchase will be repaired or replaced at the option of the manufacturer, free of charge, when received at the factory with proof of purchase, freight prepaid. This includes assembly costs (for instance by the dealer), which shall not be covered by Hayes Bicycle Group. This warranty does not cover breakage, bending, or damage that may result from crashes or falls. This warranty does not cover any defects or damage caused by alterations or modifications of new Hayes disc brakes or parts or by normal wear, accidents, improper maintenance, damages caused by the use of parts of different manufacturers, improper use or abuse of the product, or failure to follow instructions contained in an instruction manual for Hayes Disc Brake. Any modifications made by the user will render the warranty null and void. The cost of normal maintenance or replacement of service items, which are not defective, shall be paid for by the original purchaser. This warranty is expressly in lieu of all other warranties, and any implied are limited in duration to the same duration as the expressed warranty herein. Hayes Bicycle Group shall not be liable for any incidental or consequential damages.

If for any reason warranty work is necessary, return the brake to the place of purchase. In the USA, contact Hayes Bicycle Group for a return authorization number (RA #) at (888) 686-3472. At that time, instructions for repair, return, or replacement shall be given. Customers in countries other than USA should contact their dealer or local Hayes Disc Brake distributor.
Caliper (G2)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>13</td>
<td>Caliper, Outer</td>
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<tr>
<td>14</td>
<td>Caliper, Inner</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Bridge Bolt</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>Square Seal</td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td>Caliper Piston</td>
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</tr>
<tr>
<td>18</td>
<td>Transfer Port O-ring</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>Caliper Bleed Screw</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>Pad, Inner</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Pad, Outer</td>
<td>1</td>
</tr>
<tr>
<td>DISC SIZE</td>
<td>BRACKET #</td>
<td>BOLT LENGTH</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>6 INCH(160 MM)</td>
<td>NONE</td>
<td>22.2 MM</td>
</tr>
<tr>
<td>7 INCH(178 MM)</td>
<td>98-18639</td>
<td>31.8 MM</td>
</tr>
<tr>
<td>8 INCH(203 MM)</td>
<td>98-15072</td>
<td>18.4 MM</td>
</tr>
<tr>
<td>8 INCH(203 MM)</td>
<td>NONE</td>
<td>22.2 MM</td>
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</tbody>
</table>