



SERVICE KIT INSTRUCTIONS

45-14575C

Pad Replacement, Mount Brackets, Disc Installation

The Following procedures cover the installation of Hayes Disc Brakes items purchased as an aftermarket item. 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.

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

A. Pad Replacement - Full Hydraulic Systems and MX-1 Mechanical

1. Remove the wheel.

Note: It is not necessary to remove the caliper from the frame or fork, but it may make the installation of the new pads easier if the caliper is removed.

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...

Note: For the MX-1 Mechanical brake, skip to step #5

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. See Photo

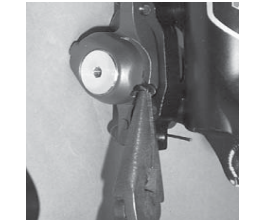
5. Put the outer pad in first. Use the tab in the center of the pad backing plate to push the new pads into place. Angle the pad slightly so the post is towards the center of the caliper and push the pad until it snaps into place. Check that the pad is locked into position.
6. Now repeat the procedure for the other pad.
7. Install the wheel.



Step A4



Full Hydraulic and MX-1 Brake Pads



Step B3



MX-2 Brake Pads



Step C3



Step C6

B. Pad Replacement - MX-2 Mechanical

1. Remove the wheel.
2. Using a 5mm Allen wrench, turn the inner pad adjuster counter clock-wise until one engagement thread is exposed.
3. Using a needle nose pliers, **remove the outer pad first.** *Note: The outer pad is away from the wheel.* To do this, pull the tab in the center of the pad backing plate toward the center of the caliper and out. The pad is held in with a magnet.

Note: If you do not remove the outer pad first, you will not be able to remove the pads.

4. Repeat the above steps for the inner pad.
Note: The inner and outer brake pads are identical. See Photo

To replace the pads...

5. Using a needle nose pliers, **install the inner pad in first.** *Note: The inner pad is the pad closest to the wheel.* Use the tab in the center of the pad backing plate to push the new pads into place. Angle the pad slightly until the force of the magnet pulls the pad into place.
6. Now repeat the procedure for the outer pad.
7. Install the wheel.
8. Using a 5mm Allen wrench, adjust the inner pad adjuster to the proper pad gap.

C. Mounting the Caliper to the Frame or Fork

1. Remove the wheel(s).
2. For some installations it will be necessary to install a mount bracket to accept the Hayes Disc Brake caliper. Install the mount bracket to the frame or fork using (2) M6 x 1.018.4mm long mount bolts. Torque the bolts to 110 in-lbs (12.43Nm).
3. Mount the caliper to the frame or fork adapter using (2) M6 x 1.018.4mm long mount bolts and (2) mount washers. Snug the bolts, but leave them loose enough so that the caliper will move on its slots.
4. Re-install the wheel.
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 still squeezing the lever, tighten the mounting bolts.
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 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 the disc

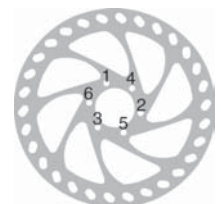
7. When the gaps are equal and wheel spins freely (without drag), torque the mounting bolts to 110 in-lbs (12.43 Nm).
8. Repeat the procedure for the other wheel.

D. Mount Brackets

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.
Warning: Do NOT use automotive 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 55 in-lbs (6.2 Nm), in a star pattern sequence. See Diagram
4. Check and retorque the disc screws after 12 hours.

Warning: Do NOT touch the disc immediately after use. It will be hot.



Torqueing Sequence