TEKTRO

INSTALLATION INSTRUCTION
HYDRAULIC ROAD DISC BRAKE SYSTEM

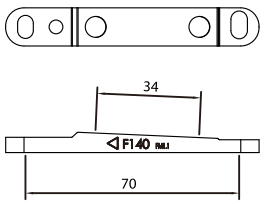
GENERAL WARNING & CAUTIONS

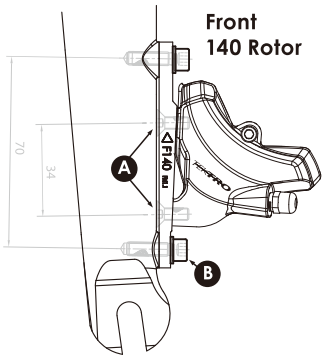
- Read instructions thoroughly before attempting any work on Tektro hydraulic disc brakes. It is highly recommended that you seek the service of an authorized Tektro Service Center or other qualified mechanic.
- Disc brake pads, calipers and rotors may become extremely hot when used. Serious injury could result from contact with a hot brake. Care should be taken not to touch the caliper or rotor while it is hot. Be sure to allow the brake to cool before attempting to service it in any way.
- Stop riding the bike immediately if the brake fluid is leaking or if there is an insufficient amount of brake fluid. Please seek a qualified mechanic to make the proper repairs. Continued operation with leaking brakes or insufficient brake fluid could result in a loss of braking power which may cause serious injury or death.
- Hydraulic disc brakes inherently offer considerable braking power. Care should be taking during operation to properly maintain control of the bicycle.
- Tektro hydraulic disc brakes are not designed to work with the bicycle upside down. The brake may not work correctly and a serious accident could occur. If the bicycle has been turned upside down, be sure to operate the brake lever a few times before riding to check that the brake operates normally.
- If you feel no resistance when squeezing the brake lever, immediately stop riding the bicycle and have the brake system checked by qualified bicycle mechanic.
- Before every ride : confirm the brake pad thickness is greater than 2.5mm *(Pad friction material & metal backing plate)*.
- Pads and rotors must be kept clean and free of all contaminants including but not limited to oil, lubricants, hydraulic fluid and solvents.
- If the pads become contaminated with oil you must discard them and replace them with a new set. Rotors should be cleaned with isopropyl alcohol.
- The brake pads are specifically formulated to achieve optimum performance with the Tektro hydraulic disc brake system. Tektro does not guarantee performance with any non-Tektro brand brake pads.

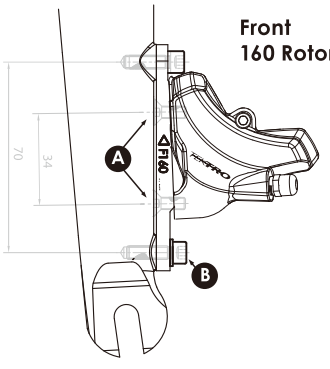
Tektro hydraulic disc brakes are warranted against manufacturing defects in materials and / or workmanship for a period of two years from the date of original retail purchase. Not covered under this warranty is damage resulting from improper installation, adjustment or maintenance, lack of maintenance, alterations, crashes or use judged by Tektro to be excessive or abusive. For warranty related questions or more information on the Tektro disc brake please contact a Tektro Service Center.

ADAPTER INSTRUCTION CHART

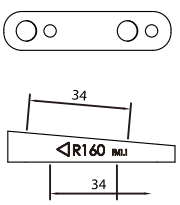
FM1.1 F140/F160 Adapter **F-5**

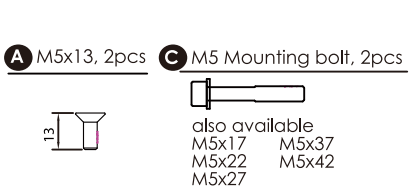


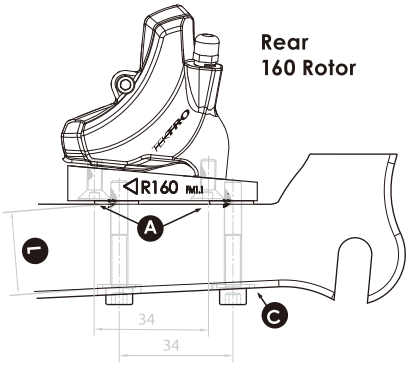




FM1.1 R160 Adapter **F-6**







Torque spec:
FlatMount bolts: 5-7 Nm (44-62 in-lb)
Disc Rotor bolts: 4-6 Nm (35-53 in-lb)

M5 BOLT FOR REAR

Bolt = Fork + 7mm						
Fork (L)	10	15	20	25	30	35
Bolt (C)	17mm	22mm	27mm	32mm	37mm	42mm

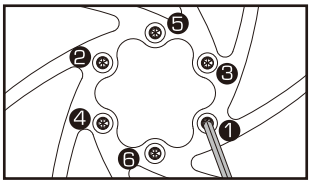
INSTALLATION & ADJUSTMENT

TOOLS AND EQUIPMENT REQUIRED

The following tools are necessary to install the Tektro hydraulic disc brake:

- 2mm hex wrench
- 5mm hex wrench
- 4mm hex wrench
- T25 Torx® wrench

The caliper and rotor for the front and rear of the bike are the same. The only difference between front and rear calipers is which adapter should be used to mount the caliper to the fork/frame. The adapter for the front fork is marked with an "F" and is designed to fit forks with flat mount specification. The rear adapter is marked with an "R" and is designed to fit flat mount specification frame. These adapters are an integral part of the brake system.

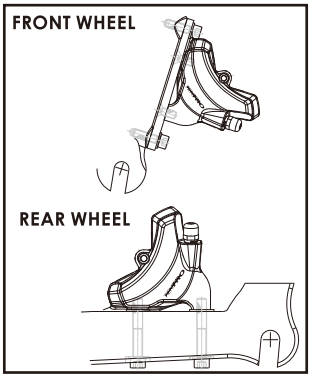


A-1. Rotor torquing sequence

A) MOUNTING THE ROTOR TO THE HUB

- Remove the wheel from the bike. Attach the rotor to the hub with the supplied Torx® bolts and tighten it with a T25 Torx® wrench. Final tightening torque: 4-6 Nm.
- Install the wheel on the bike according to the manufacturer's instructions. **(See A-1)**

NOTE - The rotor must be installed with the "rotation" arrows pointing in the same direction as the forward rotation of the wheel.



B-1. Mount the adapter to the frame/fork

B) MOUNTING THE ADAPTER

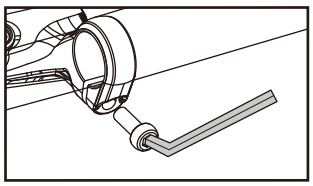
- The brake rotor should be on the caliper mounting side.
- Select the correct adapter (front or rear) for the size of rotor.

Front caliper -

- Attach the adapter to the caliper in correct direction for 140mm or 160mm rotor. Tighten the two M5x13 Ⓐ bolts to a torque of 5-7 Nm.
- Attach the adapter to fork using the two M5x14 Ⓑ bolts. Align the caliper to the rotor, (using an gap or alignment tool,) and tighten to a torque of 5-7 Nm.

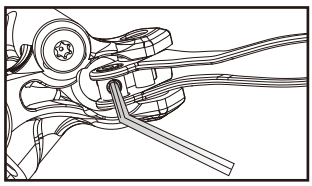
Rear caliper -

- With 140mm rotor : Insert mounting bolt Ⓒ into the frame and make sure it is protruding 7mm through the frame. Attach the caliper to bolt Ⓒ.
- With 160mm rotor : Attach F-6 adapter to brake caliper and tighten bolt Ⓐ to a torque of 5-7Nm. Then attach adapter to the frame with mounting bolt Ⓒ.
- Make sure the pads are correctly positioned in the caliper. Do not tighten the bolts at this stage.
- With the caliper mounting bolts still loose, squeeze the brake lever. The caliper will correctly center itself to the rotor. You may also use a disc brake gap or alignment tool. Keeping the brake lever depressed, tighten the caliper mounting bolts. Final tightening torque: 6-8Nm. **(See B-1)**


C-1. Mount the brake Lever

C) MOUNTING THE BRAKE LEVERS

- Install the brake lever onto the handlebars in proper position and the brake hose pointing towards the center of the handlebar. **(See C-1)**
- Tighten the brake lever in the desired position and tighten with the 4mm Allen bolt. Final tightening torque: 6-8 Nm.
- Once you have the lever assembly positioned appropriately, you can adjust the reach of the blade by 2mm Allen wrench to suit your preference. **(See C-2)**


C-2. Alter the reach adjustment

GENERAL MAINTENANCE

PAD REPLACEMENT

Pads should be replaced if they become contaminated or have less than 2.5mm thickness (Pad friction material & metal backing plate). **(See D-1)**

BEFORE RIDING

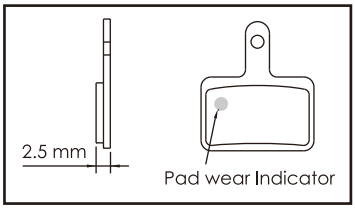
- Check the pads for wear or contamination.
- Check the hose for cracking, wear or deformation. Replace if necessary.
- Check that the brake system is operating correctly.

AFTER RIDING

- Remove any mud or contamination from the rotor slot on the caliper.
- Clean the caliper body with a cloth.

AT REGULAR INTERVALS

- Check the oil level in the reservoir.
- Lubricate the brake lever pivot with grease.
- Check to make sure that all the bolts are tightened to the correct torque specifications.



D-1. Replace new pad

TEKTRO
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