

# Master Cylinder Service

This Manual is intended to provide the information necessary for normal maintenance and service of the Dyno Master Cylinder. Although the steps and procedures are relatively simple, they should not be attempted until you are thoroughly familiar with the entire set of procedures. Images have been provided to help you in the steps and procedures. Complete Service instructions can be downloaded from the Hayes Disc Brake Website at <u>www.hayesbicycle.com</u>.

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

Warning: Means that there is the possibility of personal injury to you 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.

## Hose Removal and Assembly

The following procedures are to be followed when removing or replacing the hose on the Hayes Dyno Comp and Sport brake systems.

#### Master Cylinder Hose Removal

- 1. Using an 8mm open end wrench, loosen and remove the hose nut from the master cylinder. Slide it down the hose. (FIG. 1)
- Pull the hose out of the master cylinder. There will be residual fluid in the master cylinder body. Be careful to avoid spilling the fluid.
- A new hose insert/compression bushing combination will be needed each time the hose is re-installed. Remove the old hose insert by cutting the hose next to it. The cut needs to be clean with no frayed ends.

#### Hose Assembly

- 1. Cut the hose to desired length using hose or cable cutters. The cut end must be clean and perpendicular to itself.
- 2. Slide the hose nut onto the hose.
- Push the end of the barbed hose insert into the end of the hose. Be sure it is inserted completely so the stop surface is flush with the end of the hose. Always use a new hose insert/compression bushing. (FIG. 2)
- 4. Slide the hose into the master cylinder and install the hose nut. Be sure that the hose is inserted completely into the master cylinder. Be sure that the hose remains inserted while tightening the hose nut down.
- 5. Using an 8mm open-end wrench, torque the hose nut to  $70 \pm 5$  in/lb. [7.9 $\pm 0.5$  Nm]
- 6. Bleed the system. (NOTE: See Bleed Instructions)



FIG. 1

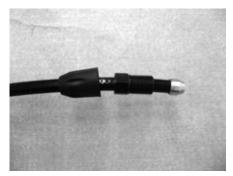


FIG. 2

### WARRANTY INFORMATION

Any Hayes Bicycle Group component 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. Any other warranty claims not included in this statement are void. 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 Bicycle Group parts or by normal wear, accidents, improper maintenance, damages caused by the use of parts of different manufactures, improper use or abuse of the product, or failure to follow the instructions contained in an instruction manual for the specific component. 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 component 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 Bicycle Group distributor.



5800 W. Donges Bay Road. Mequon WI, 53092 Phone: (888) 686-3472 Fax: (262) 512-4219 www.hayesdiscbrake.com hayestech@hayesbicycle.com