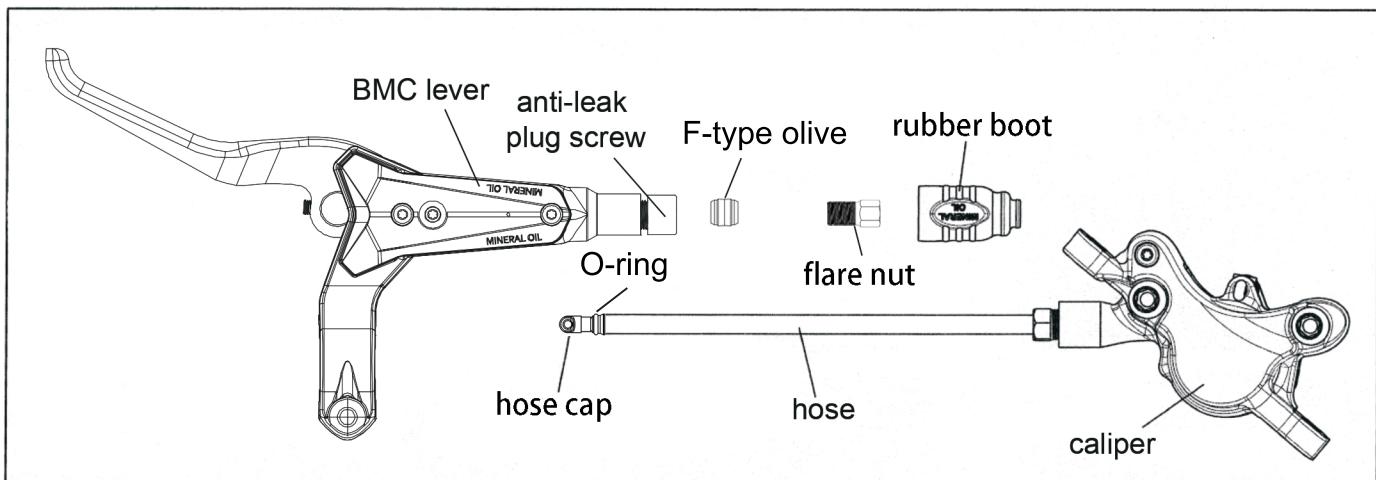


Hydraulic disc brake

Assembly instructions for the F-type split O-ring oil brake



- ① Tool required
 - 1.5mm hex key
 - M6 open-end wrench
- ② Use homing bead to help hose to thread through the inner tubes of frame (Fig. 1)
- ③ After the oil pipe passes through the inner pipe of the frame, use a 1.5mm hex wrench to remove the quick release nut, and use an M6 hex wrench to remove the oil stopper of the brake lever. (Fig. 2)
 - ★Caution: Do not swing hose after removing homing bead to avoid mineral oil leak.)
 - ★Caution: Secure the hose connection port so that it is facing upward and do not pull brake lever to prevent mineral oil leak.)
- ④ Place the protective sleeve, oil pipe joint, and olive sleeve F in sequence on the oil pipe. When inserting the O-ring into the oil pipe head of the F-type olive sleeve (pay attention to the installation direction, insert the larger end of the F-type olive sleeve into the oil pipe head), there will be a slight in place feel as the olive sleeve is in place. If the olive sleeve cannot be pulled off by pulling it out, it indicates that the olive sleeve has been installed in place. (Fig. 3)
 - ★ Caution! If there is a large resistance during the process of inserting the olive sleeve, you can rotate and press it inward at the same time, making it easier to install the olive sleeve in place.
- ⑤ Insert hose into brake lever (Fig.4)
- ⑥ Tighten the flare nut into the connection port (Torque 70-90 kgf-cm) (Fig.5)
- ⑦ Install the rubber boot to finish the assembling process (Fig.6)
- ⑧ Checking methods after assembling:
 - (1) Ensure that the tightening torque of the flare nut is 70-90kgf-cm.
 - (2) Operate the brake lever 4-5 times until it feels back to normal.
 - (3) Depress the brake lever using about 6kg force and hold it for 30 seconds to check whether there is oil leak at the connection port and whether the reach distance is less than 1.5 fingers.
 - (4) If there occurs oil leakage at the connection port, please refer to the "I Series Assembly Instruction" manual and re-conduct the assembly process
 - (5) If the distance between brake lever and handle bar is less than 1.5 fingers, please add more oil to get it back to normal stiffness following the instructions in the manual.

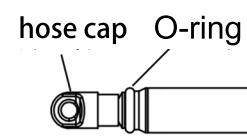


Fig.1

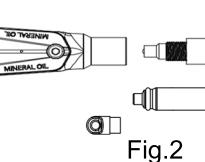


Fig.2

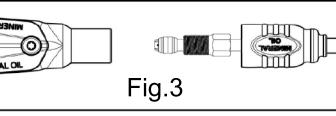


Fig.3

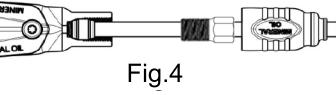


Fig.4

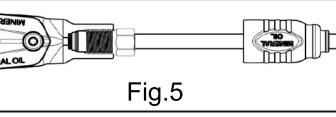


Fig.5

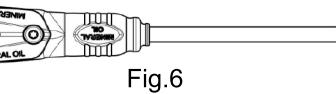


Fig.6

★Notice! In the process of disassembly and assembly of brake hose, if the operator is not skilled enough, the loss of certain amount of brake fluid would be inevitable, thereby results in a more loose hand feeling (Figs. 6A and B). When that occurs, more brake fluid should be added to ensure its return to normal stiffness according to corresponding operations in the manual (Fig. 7C). The instructions on brake fluid refueling in the Shimano dealer manual is also recommended.

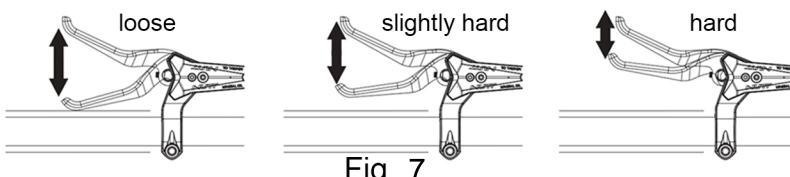


Fig. 7