

# OUTBRAKER

2nd EDITION



Expert Installation Manual



**HS** HS CO.,LTD. 경기도 가평군 가평읍 진동안길 41-33  
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# CAUTION!

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## ***SAFETY FIRST!***

We care about YOU. Please, always wear your safety glasses and protective gloves when installing OutBraker products. Protect yourself! Wear your safety gear!

# NOTICE!

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**DO NOT Allow Brake Fluid** to come into **contact** with **brake pads** or **rotors**



## STEP 0 Tools for Intallation

- 15mm Spanner
- 8mm Spanner
- Brake Hose Cutter-
- Hex wrenches
- Proper Air Bleeding kit for each brake

### ⚠ CAUTION

**CHECK** Proper **BRAKE FLUID** before Intallation.  
**DO NOT MIX** Mineral and DOT oil!  
It will cause the seals defective.



## STEP 1 Brake Hose Removal



01. Loosen the compression bolt using 8mm spanner.



8 mm Spanner / Flare Nut

02. Remove the brake hose from the lever body.

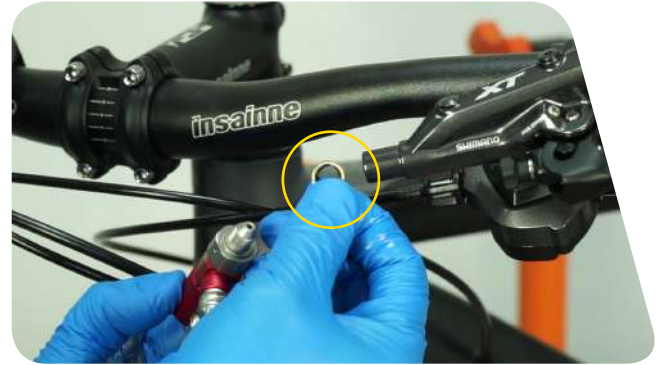


## STEP 2 Install OutBraker on the lever

### ⚠ CAUTION

**CHECK** whether the Seal Washer is on the Hex part.  
It will cause Brake Fluid Leakiness without it.

01. Thread Outbraker into the lever body by hand first.



02. Tighten hex using 15mm spanner (Torque 4-6N·m).



## STEP 3 Cut the Brake Hose / Remove the Compression Bolt

01. Cut the brake hose about 1.5cm using a hose cutter.



- 02. Remove the compression bolt from the brake hose.
- 01. Pass the brake hose through the sleeve nut and the olive.

**⚠ CAUTION**

It is **IMPOSSIBLE** to **Disassemble** the Banjo kit after assembling it.  
Please **DO NOT Forget** to **Remove the Compression Bolt**.



## STEP 4 Join the Brake Hose to Banjo Kit

- 01. Pass the brake hose through the sleeve nut and the olive.



- 02. Join the Brake hose to the Insert until there is No gap between the hose and the banjo.



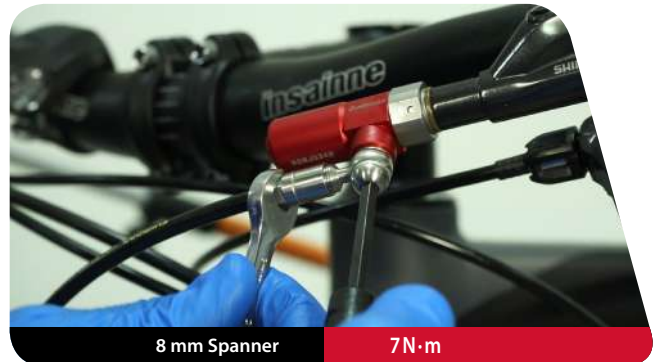
- 03. Tighten the Banjo Fixing Bolt using 4mm Hex wrench(Torque 4-6N·m)



4 mm Hex Wrench

4-6N·m

- 04. Tighten the Sleeve Nut using 8mm spanner(Torque 7N·m)



8 mm Spanner

7N·m

## STEP 5 Air Bleeding and Oil Supplement

### ⚠ CAUTION

**CHECK** Proper **BRAKE FLUID** for the brake.  
**DO NOT MIX** Mineral and DOT oil!  
It will cause the seals defective.

01. Install its proper proper Bleeding Cup or Syringe on the Lever.

02. Bleed Air.  
It may need to be done from the Caliper.

