



BLEED INSTRUCTIONS

MAGURA DISC BRAKES

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KIT CONTENTS

- 1X INJECTION SYRINGE WITH BLEED ADAPTOR
- 1X 20ml EBT / ASPIRATION SYRINGE
- 1X VENT TUBE WITH BLEED ADAPTOR
- 2X TORX SCREWDRIVER BITS
- 1X PAIR OF NITRILE (LATEX FREE) GLOVES
- 1X BOTTLE GENUINE MINERAL OIL BRAKE FLUID

ADDITIONAL EQUIPMENT REQUIRED

- PISTON SPACER OR DISC ROTOR
- 8MM OPEN END SPANNER
- 2, 2.5, 3 & 5MM ALLEN WRENCH
- CLEAN DAMP CLOTH (OR BRAKE CLEANER)
- TORQUE WRENCH (OPTIONAL)

1 For brakes without Magura's Easy Bleed Technology™ (EBT) loosen the Allen bolts on the brake lever and rotate the lever on the handlebar so that it is horizontal. For EBT-equipped models position the lever 20 degrees upwards and temporarily fix in position.

2 Remove the wheel and brake pads and slide in the piston spacer (supplied with your brakes/bike) or other solid, non-marring object between the pistons to prevent them moving outwards during the bleed process. Secure this with an elastic band if necessary.

3 Take the injection syringe (with bleed adaptor) and fill with mineral oil, making sure to remove all air from within the syringe.

4 Remove the bleed screw from the calliper with a 3 or 5mm hex wrench. Screw in the prepared syringe and tighten it **slightly** with an 8mm open-end spanner. Do not over tighten the bleed adaptor.

5 For brake models with EBT remove the bleed port screw as shown. For older, non-EBT equipped models you will need to remove the reservoir cover and rubber membrane to expose the brake fluid contained within the master cylinder.

6 For EBT models - insert the second empty syringe **without plunger** into the EBT bleed port. For non-EBT models - your second syringe will be used to withdraw (suck) fluid from the open reservoir as you inject new fluid at the calliper.

7 Carefully start to inject fluid at the calliper. EBT models - you should start to see fluid and air bubbles appearing within the empty syringe at the brake lever, which is acting as a temporary fluid reservoir.

Non-EBT models - as you inject fluid at the calliper you must remove the excess fluid entering the reservoir at the brake lever before it over spills (a second pair of hands might help). Continue this process until air bubbles stop appearing at the lever or until there is no more fluid left in the injecting syringe.

NOTE: Operating the brake lever several times during this step will help to remove or dislodge any trapped air within the system.

8 Non-EBT models - the reservoir must be full with mineral oil before replacing the membrane and cover. Oil will spill during this process so be sure to surround the area with a cloth to catch any overflowing oil. Tighten the screws of the cover until the cover is flush with the reservoir. Tightening torque 0.6nm / 5in.lbs. Then remove the filling syringe and screw in the 3mm hex bleed port screw. Tightening torque 2.5nm / 22in.lbs.

EBT-models - Now suck the fluid back with the injection syringe. You will see the level of fluid in the EBT syringe dropping. Be sure not to suck all of the fluid from the lever syringe as this will draw air to enter the system. You should also see air bubbles entering the injection syringe as you pull. Leave only a small amount of fluid inside the EBT syringe before removing and refitting the bleed port screw. Tightening torque 1nm / 9 in.lbs. Remove the filling syringe and screw in the calliper bleed port screw. Tightening torque 2.5nm / 22in.lbs.

9 All done! Remove the piston spacer (if used), refit the pads and wheel. Always activate the lever before riding. The brake lever should feel firm after the first few pulls. If the lever feels spongy, repeat the bleed process to remove all air from the system.





BLEED INSTRUCTIONS

MAGURA RIM BRAKES

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1 Before beginning the bleed process make sure that the Turbo Pad Wear Adjuster (TPA) adjuster is turned fully to the minus (-) position and the reach adjustment screw is turned outwards until the lever reaches its furthest position from the bar.

2 Take the injection syringe (complete with bleed adaptor) and fill with mineral oil, making sure to remove all air. Turn the syringe to push out any remaining air from within the syringe and tube.

3 Remove the bleed screw at the calliper and attach the pre-filled syringe by hand, then tighten **slightly** with an open ended 8mm spanner.

4 For brakes **without** Magura's Easy Bleed Technology™ (EBT) (pre-2011) loosen the Allen bolts slightly on the brake lever and rotate the lever on the handlebar so that it is at a 20 degree downward angle, then fix in position.

For EBT-equipped models (2011 onward), you will need to expose the EBT port by sliding away the hose cover and remove the brake lever cover by lifting it up with your fingers. The brake lever needs to be temporarily fixed in position with the EBT port at the highest possible point.

5 Non-EBT models - remove the bleed screw and attach the vent tube complete with bleed adaptor. Place the other end of the tubing into your plastic bottle or catch container to catch the old mineral oil as it leaves the system.

EBT-models - remove the EBT bleed port screw and attach the empty syringe **without plunger** into the port.

6 Carefully start to inject fluid at the slave cylinder with the injection syringe.

EBT models - you should start to see fluid and air bubbles appearing within the empty syringe at the brake lever.

Non-EBT models - you should start to see fluid appearing in the vent tubing (along with air bubbles), emerging from the master cylinder.

NOTE: Operating the lever blade several times during this step will help to remove or dislodge any trapped air within the system.

7 Non-EBT models - the bleed process is complete when no more air bubbles can be seen exiting the master cylinder vent tube. Be sure to have used the full 20ml of mineral oil then remove the vent tube from the lever and re-fit the bleed port screw. Then remove the injection syringe from the slave cylinder and replace the bleed port screw. Tightening torque 4nm / 34in.lbs.

EBT-models - After injecting most of the fluid from the injection syringe, suck back the fluid. You will see the level of fluid in the EBT syringe dropping. Be sure not to suck all of the fluid from the lever syringe, as this will draw air to enter the system.

You should also see air bubbles entering the injection syringe as you pull. Leave only a small amount of fluid inside the EBT syringe before removing and refitting the bleed port screw. Then refit the hose and lever covers, which you removed earlier.

8 Return the brake lever back to normal riding position and secure in place respecting the max tightening torque of 4nm / 34in.lbs. Reset the TPA adjuster and lever reach controls to your preferred riding position.

9 The system is correctly bled when the lever blade feels firm upon use. If there is excess lever travel check for any leaks around the system and repeat the bleed process.

10 Now you're ready to ride.



NON-EBT BRAKE

