VELKYNE

USER GUIDE

BH90 OLIVE AND INSERT KITS FOR SHIMANO HOSES, SET OF 10

Ten olives and ten inserts to connect a Shimano BH90 hydraulic brake hose to its lever or caliper. The olive crushes as the nut is tightened and makes the seal: it works once, hence the set of ten.



REF. KIT10OLIVBH90 · SHIMANO BH90 HOSES · INSERT Ø 2.2 MM, OLIVE Ø 7 MM

01 · BEFORE YOU START

WHEN, AND WITH WHAT

When you need a new olive and insert

- **Every time a hose is cut or pulled out** of its fitting: shortening on a new bike, lever replaced, hose changed, internal routing redone.
- The olive **deforms permanently** when tightened. Refitting a crushed olive ends in an oil leak, and a leaking brake no longer brakes.
- The insert is replaced with it: it is pressed into the hose and does not come out intact.

What you need

- A **hose cutter** or a brand-new blade, for a square cut.
- An **insert tool** or a small mallet with soft vice jaws, to drive the insert in.
- A spanner for the hose nut and a **torque wrench**.
- A **bleed kit** and **mineral oil** for Shimano brakes: bleeding is mandatory after connecting.
- Gloves, glasses, a rag, and something to keep the pads and rotor safe.

Why ten sets

Every shortened hose, every replaced lever, every redone internal routing uses up one set. Ten sets cover one bike for years, or a workshop's stock, and spare you the job put off for want of a tiny part.

Specifications

Compatibility	**Shimano BH90 hoses**	Insert	**Ø 2.2 × 11.1 mm**
Olive	**Ø 7 × 6.1 mm**	Material	**Machined metal**
Colour	**Silver insert, gold olive**	Contents	**10 olives + 10 inserts**

BH90 OR BH59?

- The marking is **printed along the hose**. BH90: the stiff hose of recent brakes, MTB BR-M7000, M8000, M9000 and derivatives, road BR-R7020, R8020, R9120 and later, GRX BR-RX400 to RX820, trekking BR-T750.
- A BH90 insert is 2.2 mm across; a BH59 insert is thicker. The two do not mix: the BH59 kit is sold separately.

SAFETY

- Shimano brakes = **mineral oil only**, never DOT fluid.
- Gloves and glasses: the oil irritates, and a single drop ruins a set of pads. Keep pads and rotor well away throughout.
- After refitting, **test the brakes at a standstill** before riding.

02 · PROCEDURE

CONNECTING THE HOSE

Step by step, lever end or caliper end

1. **Prepare.** Wheel out, pads removed or transport spacer in place, lever horizontal, rag under the fitting.
2. **Unscrew the hose nut** and pull the hose out of the fitting. Remove the old olive and the old insert: both go in the bin.
3. **Cut the hose square** to the length you want, in one go, with the hose cutter. The cut must be clean and round, with no lip.
4. **Slide onto the hose, in this order:** the cover if there is one, the nut, then the **olive**, thinner side towards the cut end.
5. **Drive the insert fully in** with the insert tool or the mallet, hose held in the soft-jaw vice. Its flange must come up against the hose, without crushing it.
6. **Push the hose fully home** in the lever or caliper, and keep pushing while you thread the nut by hand, then with the spanner, to the **torque given by the brake manufacturer**. The olive compresses and makes the seal.
7. **Bleed the brake** following the Shimano procedure for your model, with mineral oil.
8. **Check:** wipe the fitting, several hard pulls on the lever at a standstill, no weeping at the nut, firm lever. Check again after the first ride.



Ten sets: one silver insert and one gold olive per fitting. The olive is a consumable, and so is the insert.

IF SOMETHING GOES WRONG

- **It weeps at the nut**: hose not fully home when tightened, or olive already crushed. Strip, new olive and insert, start again.
- **The lever feels spongy**: air in the system. Bleed again.
- **The hose turns in the fitting**: nut under-tightened. Tighten to torque, no more.

On video

Independent tutorials, scan to watch.

How to shorten hydraulic brake hose, Shimano, step by step
Mtb videos CY · English

How to cut, shorten and re-install Shimano hydraulic brakes
Clint Gibbs · English

Need help?

velkyne.com/contact
Our team answers your questions about BH90 and BH59 compatibility.

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