VELKYNE

USER GUIDE

INTERNAL CABLE ROUTING TOOL, RED ALUMINIUM

Two threaded red aluminium tips that join the old housing to the new one: the old housing leads the new one through the frame, with no fishing by magnet. This guide covers routing a housing or a hose, the special cases and troubleshooting.



HOUSINGS, CABLES AND HOSES · 2 THREADED TIPS · RED ALUMINIUM, 13.6 G

01 · FITTING

COMPATIBILITY AND ROUTING

Before you start

- A frame, handlebar or stem with **internal routing**, and the old housing or hose still in place: it is your guide.
- The new housing or hose, cut clean and square, longer than the old one; a housing cutter or good cutting pliers.
- Ferrules and, for a hydraulic hose, a new olive and insert and the bleed kit.

Routing, step by step

1. **Cut the old housing at the lever end,** clean, cable removed, without pulling it out of the frame. Free it from its housing stop so it slides freely.
2. **Screw one tip** into the end of the old housing: the tapered thread bites into the housing within a few turns. A hex key slipped through the central hole works as a lever.
3. **Screw the other end** of the tip into the new housing, end to end. Pull gently: the joint must hold with no play.
4. **Pull the old housing out of the frame exit,** slowly, feeding the new one in at the entry: it follows the same path and the same internal guides. If it catches, back off a few centimetres, change the angle, try again without forcing.
5. **Unscrew the tip,** cut the new housing to length, fit ferrules and cable, adjust. The second tip lets you route the next housing straight after.

Specifications

Use	**Brake and gear housings, hoses**	Compatibility	**Cables, housings, hoses**
Material	**Aluminium**	Colour	**Red**
Contents	**2 tips**	Weight	**≈ 13.6 g**

HYDRAULIC HOSES

A hose routed through the frame is cut to length at the lever end, refitted with a **new olive and insert**, then the brake is bled. An unbled brake is not a brake: if you do not have the kit, leave that step to a workshop.

WHY IT WORKS

The frame has already found the path once. As long as the old housing is inside, it knows every internal guide: the new one only has to follow.

02 · DAY TO DAY

SPECIAL CASES, CARE, TROUBLESHOOTING

No old housing

If the housing has already been removed, the tip has nothing to follow. First pass a guide through the frame, from the entry port to the nearest exit: an old gear cable, a stiff wire, or a magnetic cable steered from outside the tube. Then join the new housing to that guide and pull. It is the longest step of any re-cabling: take your time.

Electronic wires and dropper posts

Same method: attach the wire or the dropper housing to the tip screwed onto the old housing, joint slimmed down with thin tape, and pull gently. A connector is never forced through a port that is too small: remove the grommet first.

Care

- Wipe the tips after use: the tapered thread must stay sharp to bite into the housing.
- Keep them away from heavy tools, aluminium marks easily.
- A blunted thread no longer holds in the housing: replace the tip.

If something goes wrong

SYMPTOM	LIKELY CAUSE	FIX
The joint lets go inside the frame	Tip not screwed in far enough, housing cut askew	Pull out from the shorter side, recut square, screw in harder
The new housing jams at the entry	Grommet or port too narrow	Remove the grommet, slide it onto the housing afterwards
It catches mid-frame	Internal guide or tight bend	Back off, rotate the housing on itself, try again without forcing
The tip does not bite	Housing diameter does not suit the thread	Try the other tip; otherwise use a guide
The cable rubs after fitting	Housing too short or kinked	Recut longer, check the run with the bars turned



The tip screwed onto the housing end goes through the frame port with it.

DON'T

- Never yank: a housing that comes apart mid-frame sends you back to the start, with no guide.
- Do not force an electronic connector through a port.
- Never ride with a hydraulic brake that has not been bled.

On video

Independent tutorials on internal housing routing, scan to watch.

Internal cable housing without special tools
Bike Garage · English

Internal cable routing trick, no magnets, no special tools
HunTrails · English

Need help?

velkyne.com/contact
Our team answers your questions about housing routing and compatibility with your frame.