

Note No.	SVC-FSB-0013
Release Date	10/10/2013
Contact	ngceoservice@ngc.com

Quick Connect Fitting Maintenance

Summary

It is our experience at NG CEO that tubes inserted into quick connect fittings are not reusable. This service bulletin describes the quick connect fittings, and suggests a maintenance best practice.

Scope

This technical note applies to all lasers that use the Stallion Q Switch

- Patara 16W and 20W lasers
- IKLWA 12W and 16W lasers
- Adamirus lasers that have had a Stallion Q Switch upgrade.

The Stallion Q Switch includes female quick disconnect fittings.

Quick Connect Fitting Operation

The quick connect fitting is a low cost, reliable, and flexible solution for closed loop cooling fluid systems. The connection is made by simply pushing the tube into the fitting, no other operation is required. A gripping ring holds the tube in position. Press on the release button to release the tube for removal.

Our observation is that pressing the release button typically does not completely release the gripping ring. The gripping ring can scratch the tube when it is pulled out of the quick connect fitting. A scratch on the tubing perpendicular to the oring can result in a cooling fluid leak.

Do not reuse a tube inserted into a quick connect fitting. Trim the end off of the tube or replace it.

Stallion Q Switch Replacement

The Stallion Q Switch includes two female quick disconnect fittings. When the Stallion Q Switch is replaced, trim 13mm off of the 4mm OD cooling fluid tube prior to inserting the tube into the new Q Switch. Typically, a Q Switch cooling fluid tube is long enough to trim one time. If the cooling fluid tube is too short, replace it with a 4mm OD polyethylene tube. The Legris polyethylene tube part number is 1025Y04-00.

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General Quick Disconnect Information

The components associated with the quick connect cooling fluid tubing are shown in Figure 1. Shown from left to right are:

- 1/4" braided hose
- Stepless Ear Clamp (one shot clamp) for 1/4" hose
- 6mm OD tube x 1/4 hose barbed connector
- Tee, 6mm to 4mm
- Tube, 4mm O.D. Polyethylene

The associated materials and other items are shown in Table 1.

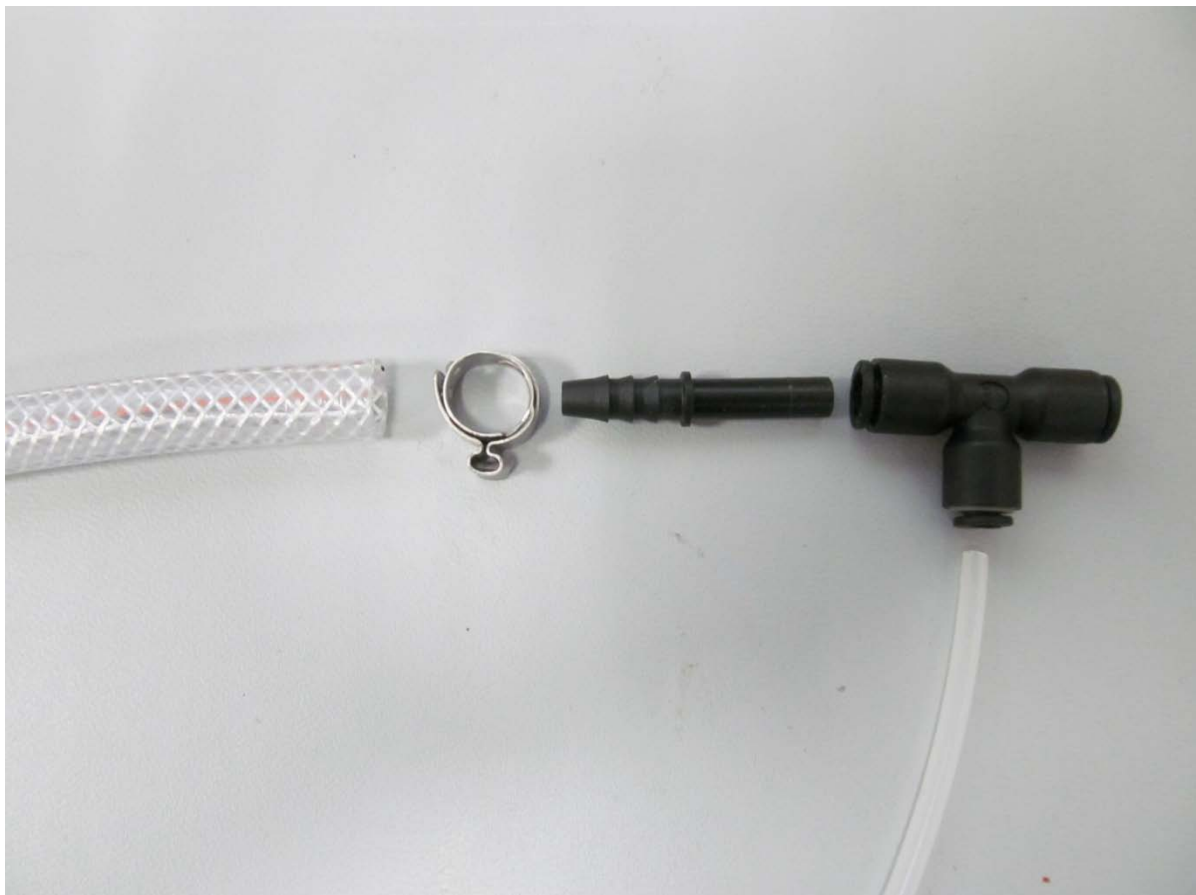


Figure 1 Quick Connect Components

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Table 1 Associated Materials List

PART #	Mfg.	DESCRIPTION
52375K32	McMaster Carr	¼" braided hose
14000191-19Q	EFC Int.	Stepless Ear Clamp (one shot clamp) for ¼" hose
3122 06 05	Legris	6mm OD tube x 1/4 hose barbed connector
3104 06 04	Legris	Tee, 6mm to 4mm
1025Y04-00	Legris	Tube, 4mm O.D. Polyethylene
14100118	Oetiker	Hose Clamp Install Tool
7130k12	McMaster Carr	Zip Tie
2216 B/A	3M	2 Part Epoxy Adhesive