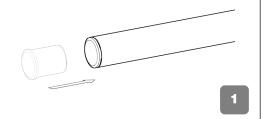
Assembly Guide

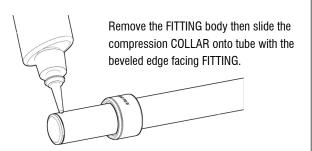
Tube surface must be clean, free from scratches or any surface imperfections, and de-burred inside and out.

Place tube support INSERT in to clean and de-burred tube.



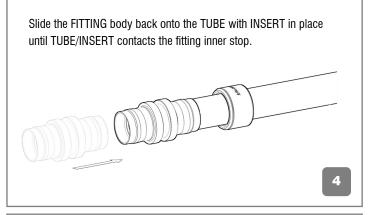
Place Fitting onto Tube with INSERT until
TUBE/INSERT contacts the inner stop.

Mark Tube at end of FITTING with permanent felt tip marker.

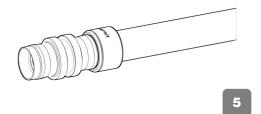


Apply LocTite® to full circumference of tube end. Keep LocTite® 1/8" from end of TUBE and INSERT.

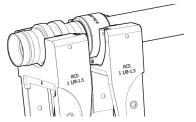
3



Keeping the TUBE/INSERT against the FITTING inner stop, slide the COLLAR against the FITTING. Collar should overlap the FITTING body.

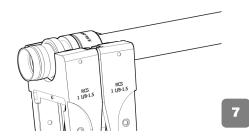


Place the FITTING and COLLAR into correct size press clamps. The assembly MUST be fully seated on the lower circumference of the clamps. Do not change the insertion depth of the TUBE/INSERT and the connecting joint.



6

Using the press tool, press the COLLAR onto the FITTING body until it is fully seated against FITTING stop. TUBE/INSERT must be maintained against the FITTING inner stop during the pressing operation.





That the tube insert depth reference mark is visible and closely aligned with the end of the FITTING body.



That the COLLAR is in the correct orientation, fully seated, and is flush against the shoulder of the FITTING body.



That any gap between the COLLAR and the FITTING shoulders are less than 1mm.

8

Troubleshooting Guide Problems Possible Causes Remedy The tube insert does not fit inside the tubing The tube end was not de-burred De-burr the tube ID The tube end is out-of-round Make a new square cut and de-burr The insert appears to be too loose Incorrect tube type or wall thickness Ensure that tube wall thickness is within tolerance for ACR Type L copper tubing Incorrect size or type of tube insert Use a correct sized insert The tube does not fit inside the fitting body Incorrect size or type of tubing Check size and type of tubing Incorrect size or type of fitting Check size and type of fitting Burrs on the tube OD De-burr the tube OD Tube is out of round Make a new square cut and de-burr Fitting inlet is damaged Use a new fitting The compression collar does not engage over Incorrect size compression collar Use the correct size of compression collar the fitting starting end Incorrect type or size of fitting Use the correct type or size of fitting The compression collar is installed in Install the compression collar with the the wrong direction beveled edge facing the fitting Loctite is applied to or collected Do not apply Loctite to the OD of the fitting between the compression collar and the Wipe off excess Loctite before compressing fitting body the compression collar on to the fitting The tube is not completely inserted Mark the tube insertion depth reference line inside the fitting and confirm it is visible before and after compression Excessive gap of more than 1mm between The fitting was not fully seated inside the Completely seat the entire fitting assembly the compression collar and the fitting tool compression clamps or the clamp into the tool clamp or tool insert landing before compressing shoulder inserts The collar is not on flush The tool was not held in square Ensure proper and square alignment between alignment with the fitting during the fitting and the tool during compression compression The compression collar cracked or split Incorrect size of tool clamp or clamp Use a correct size clamp or clamp insert insert was used The tool clamps were not completely The shoulder of the fitting body is broken Fully seat the clamps on to the tool and seated in the tool alignment slots tighten the thumb screws When retracted, the tool hydraulic ram, Position the hand tool so that there is no The fitting body is deformed backed against an adjacent obstruction obstruction in the area at the back of the tool



WARNING: Only RSC tube inserts are allowed. Use of tube inserts from other manufacturers is prohibited.

universal clamp



WARNING: Only RSC compression collars are allowed. Use of collars from other manufacturers is prohibited.

The tool clamp insert dislodged from the



WARNING: RCS fittings are single-use permanent fittings and cannot be removed or repaired after installation. If the fitting is deemed not visually acceptable prior to, during, or after the installation, the fitting must be cut out and a new one correctly reinstalled.

when the hydraulic ram is retracted

insert or replace the universal clamp

Inspect the clamp and clamp insert. Adjust

the clamp ball detent screws to secure the