

LIQUID CHARGE COMPENSATOR KIT

INSTALLATION INSTRUCTIONS FOR LIQUID CHARGE COMPENSATOR KIT (13U57; 614407-01 USED ON LGH/LCH 036, 048, 060, 072, 074 ROOFTOP UNITS

Shipping and Packing List

Package 1 of 1 contains:

- 1- Liquid charge compensator
- 1- Copper tube 1/4"
- 1- Copper tube 3/8"
- 1- Template
- 2- Straps
- 1- Grommet (used on 036 & 048 units only)
- 4- Screws

Application

The liquid charge compensator kit is used to maintain system pressures when compressors start after long extended periods without a cooling demand.

⚠ CAUTION

Danger of sharp metallic edges. Can cause injury. Take care and wear protective clothing when servicing unit to avoid accidental contact with sharp edges.

Installation

- 1- Disconnect all power to unit.
- 2- Use an approved method of recovery to remove refrigerant from the system.
- 3- Remove the compressor access panel, corner mullion, fan guard and fan blades.
- 4- Unbraid and cut the liquid line as shown in figure 1.

⚠ IMPORTANT

The Clean Air Act of 1990 bans the intentional venting of refrigerant (CFC's and HCFC's) as of July 1, 1992. Approved methods of recovery, recycling or reclaiming must be followed. Fines and/or incarceration may be levied for non-compliance.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier

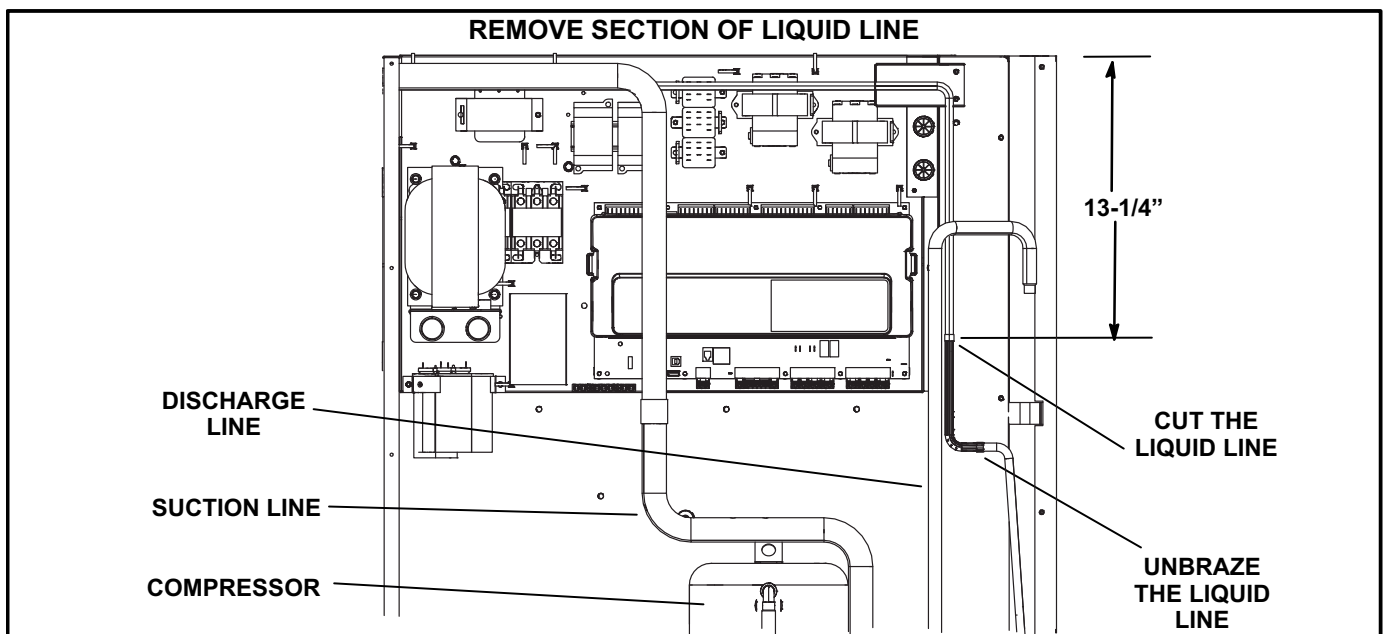


FIGURE 1

5- 036 & 048 Unit Only -

Cut a 1/2" hole in the panel as shown in figure 2. Install the grommet provided.

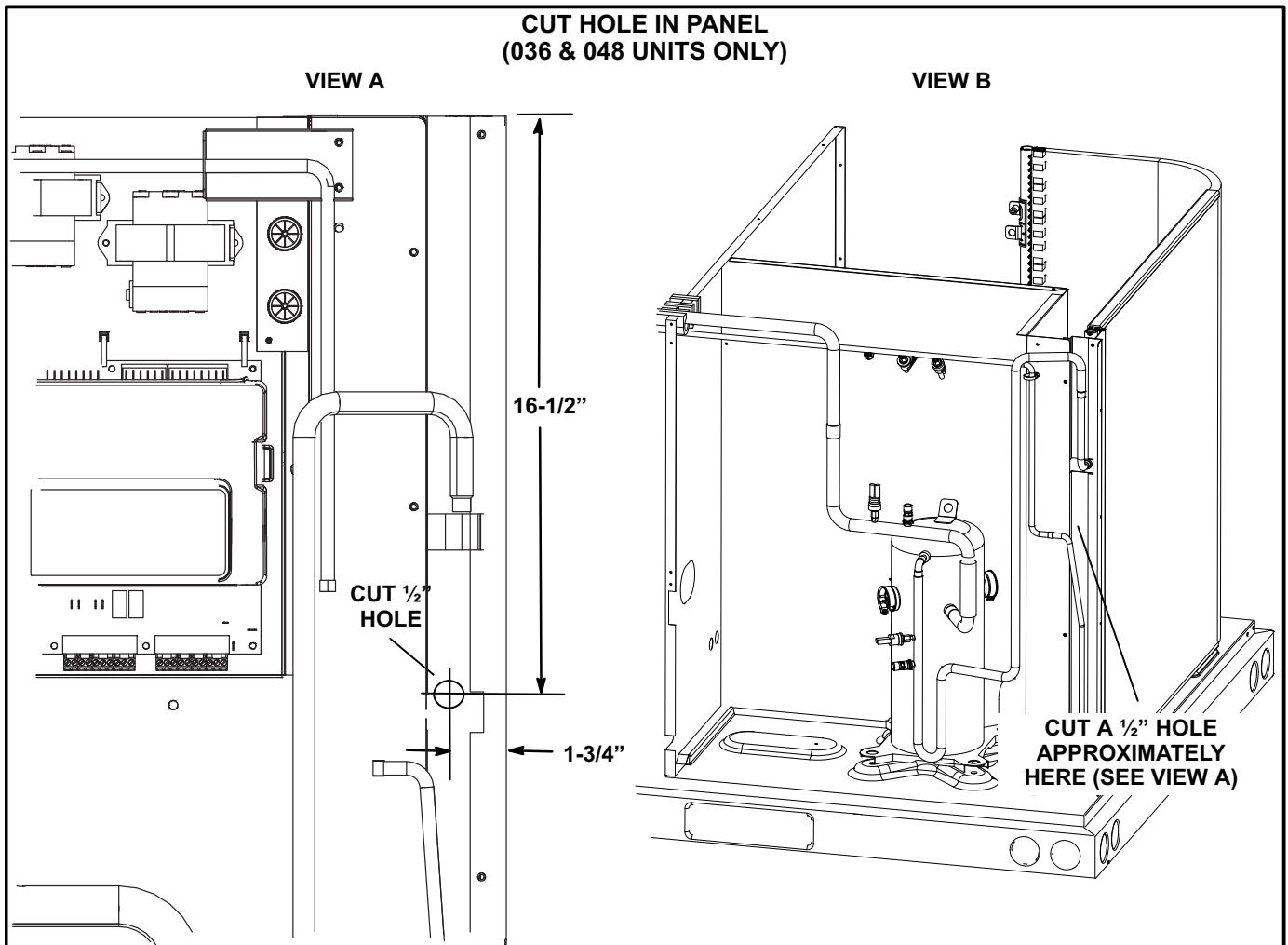


FIGURE 2

6- Units Built Before January 2015 Only -
 Locate the serial number on the unit nameplate. If the unit was built before January of 2015, remove 4" from the vertical run of the liquid line. See figure 3.

7- Fit the shortened liquid line back in place but do NOT braze into place.

Serial Number Example

Year 2014
 Month Dec.
 (Jan.=A; Feb.=B; Mar.=C, etc.)

5 6 (1) 4 (L) * * * * *

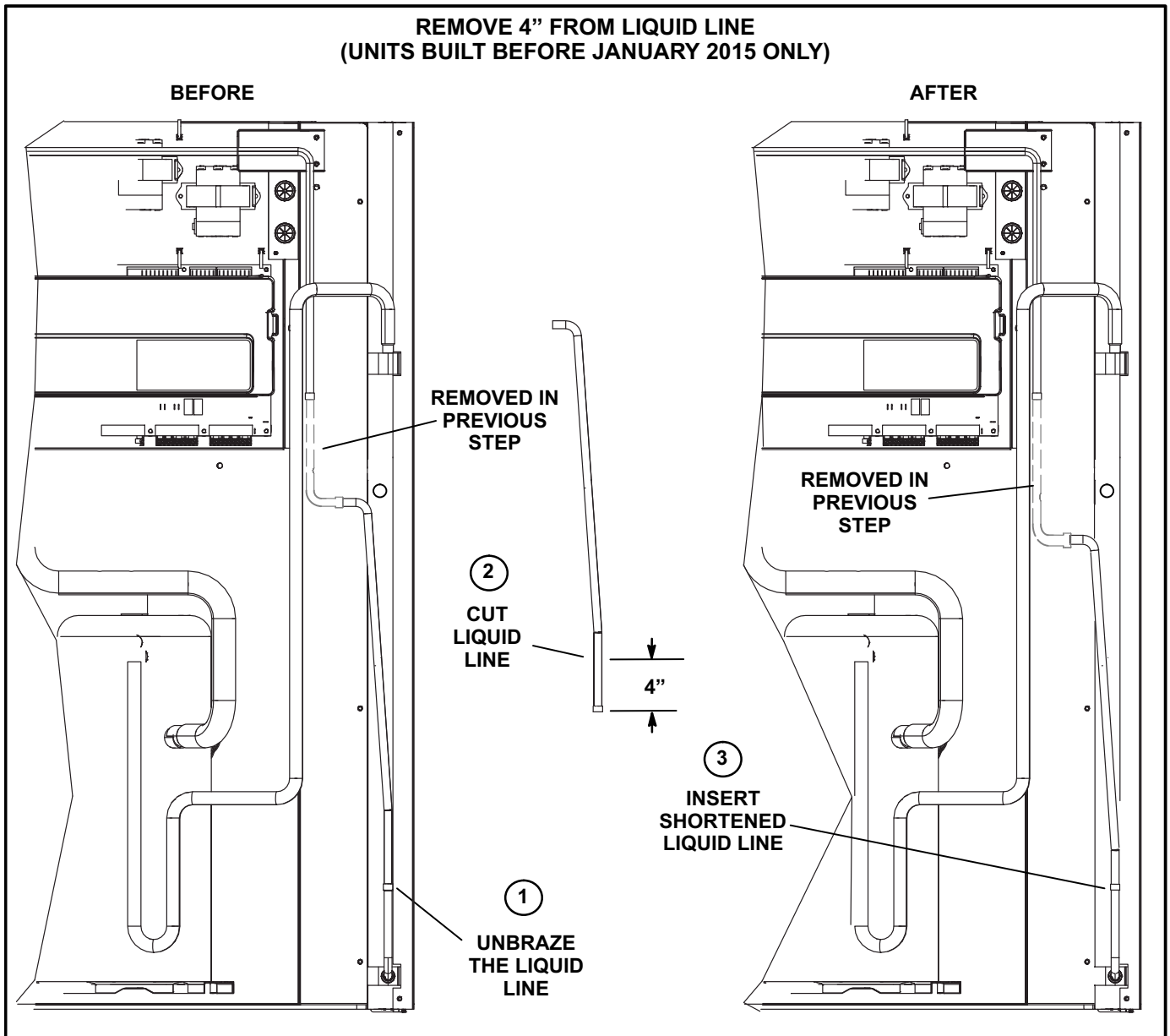


FIGURE 3

8- Fit the $\frac{3}{8}$ " tubing, provided in this kit, into place as shown in figure 4. Make sure the hole in the tubing is oriented to the right. Do NOT braze plumbing into place.

9- Insert the template through the fan orifice and onto the back side of the control area. See figure 5. Mark the four screw holes.

10- Use the provided straps to secure the compensator in place. See figure 6.

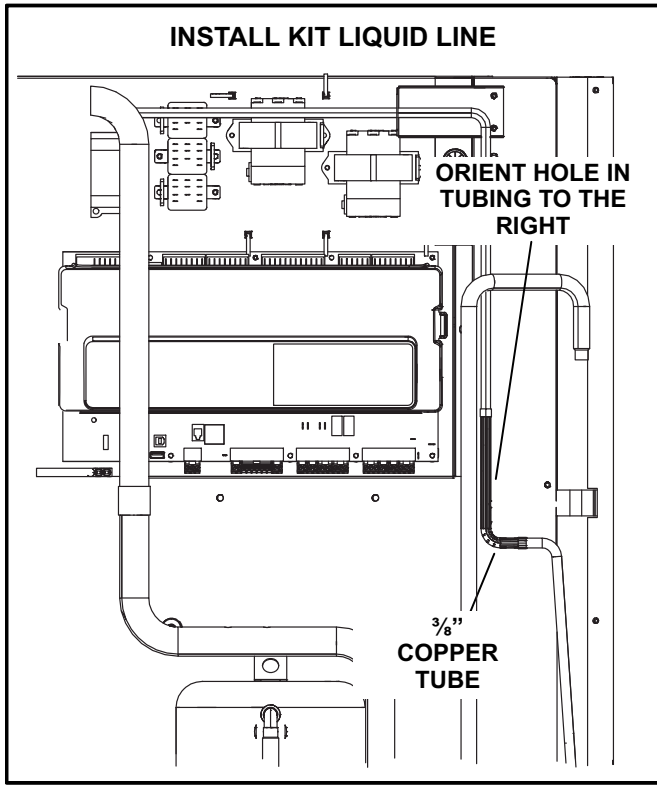


FIGURE 4

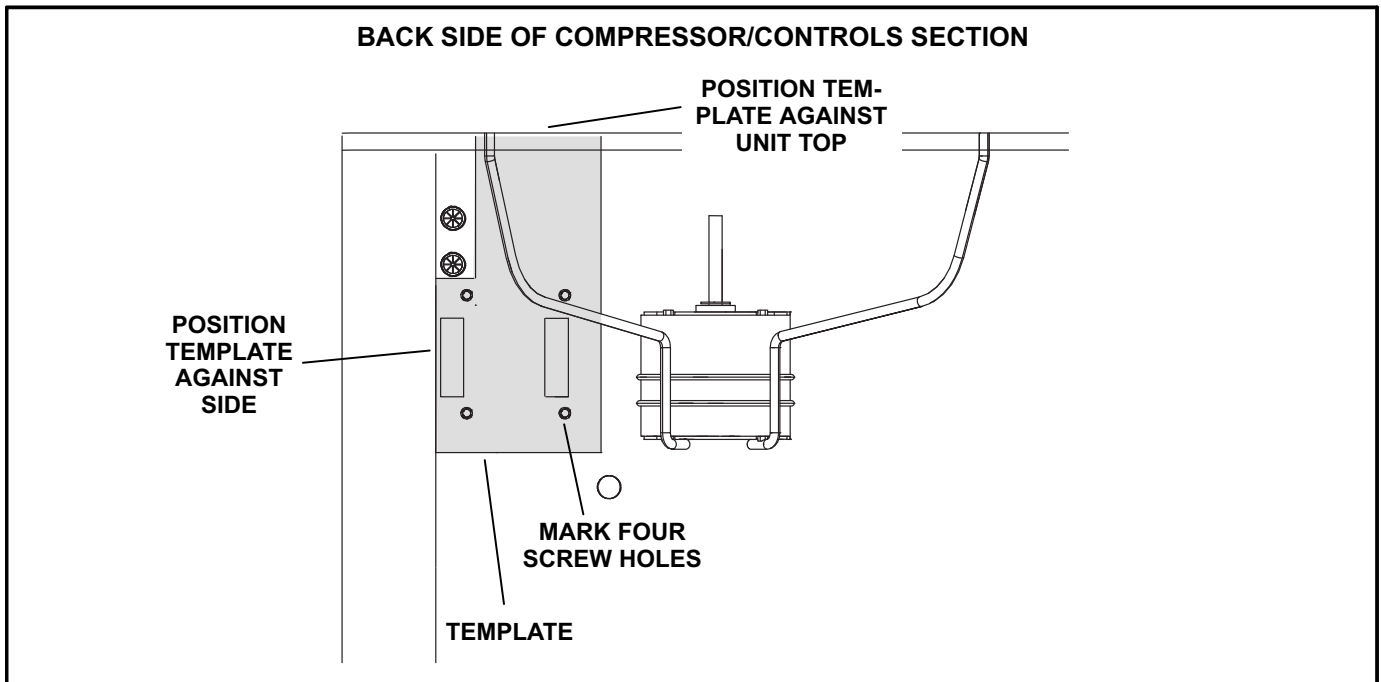


FIGURE 5

INSTALL COMPENSATOR AND 1/4" TUBING

**ROUTE 1/4" TUBING
THROUGH RECTANGULAR
OPENING OR 1/2" HOLE CUT
PREVIOUSLY**

**SECURE COMPENSATOR
TO PANEL WITH STRAPS
AND TWO SCREWS ON
EACH SIDE**

STRAPS

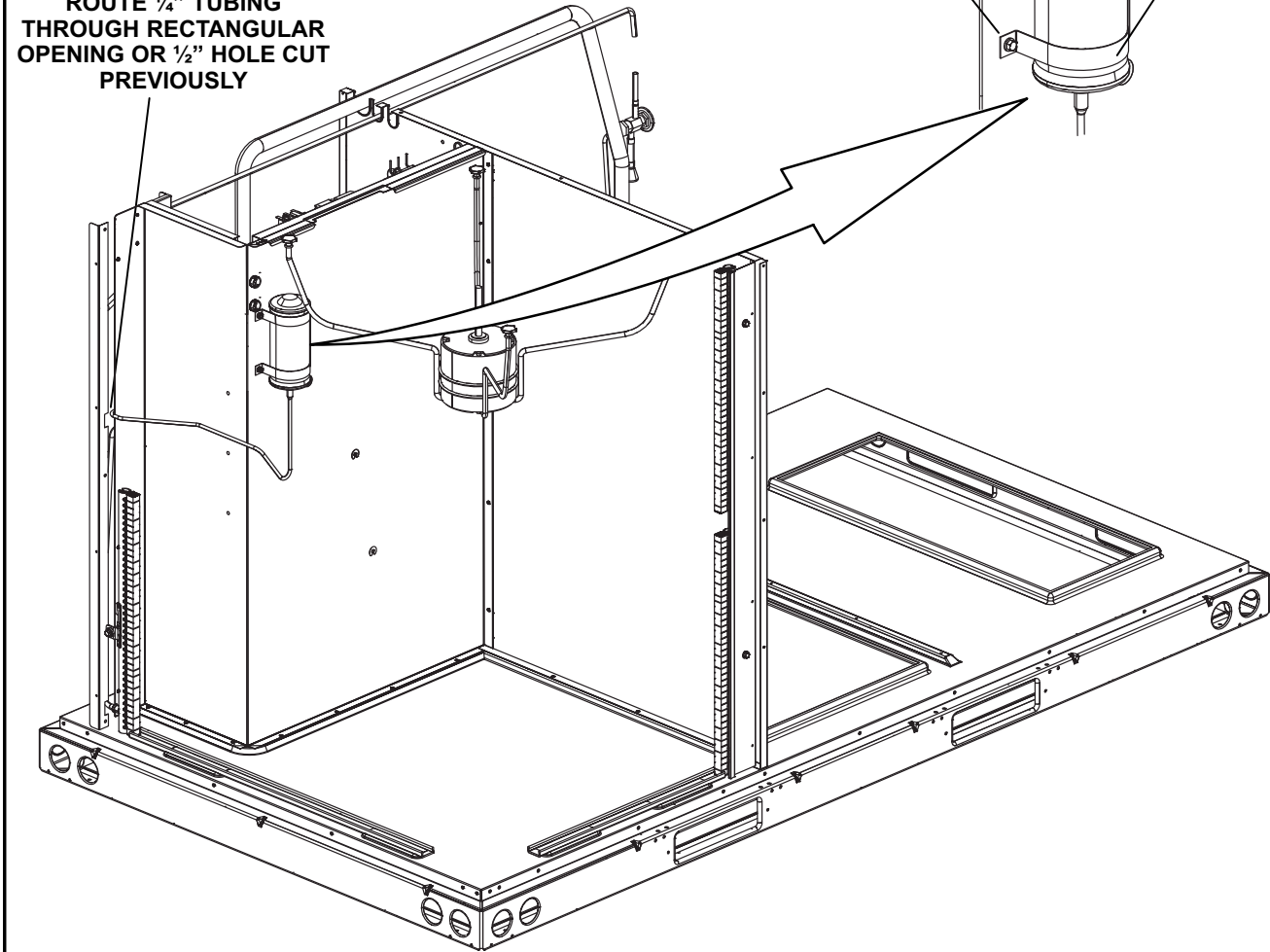


FIGURE 6

- 11- Fit the 1/4" tubing between the compensator and the opening in the panel. See figure 7.
- 12- Insert 1/4" tubing into the hole on the 3/8" liquid line. See figure 8.

IMPORTANT - Make sure the 1/4" tubing is inserted just inside the 3/8" liquid line; do not block refrigerant flow by inserting the 1/4" line too far.

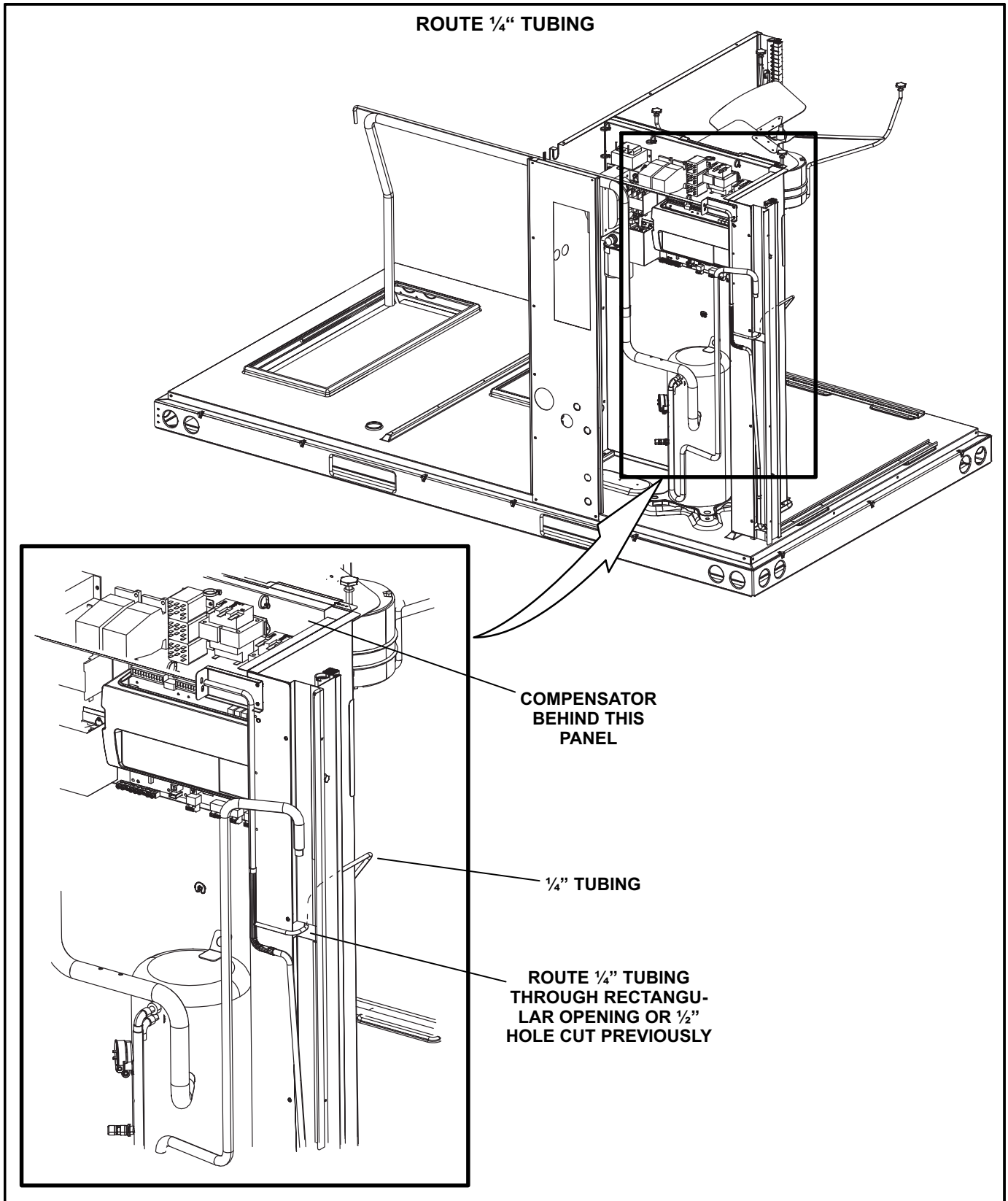


FIGURE 7

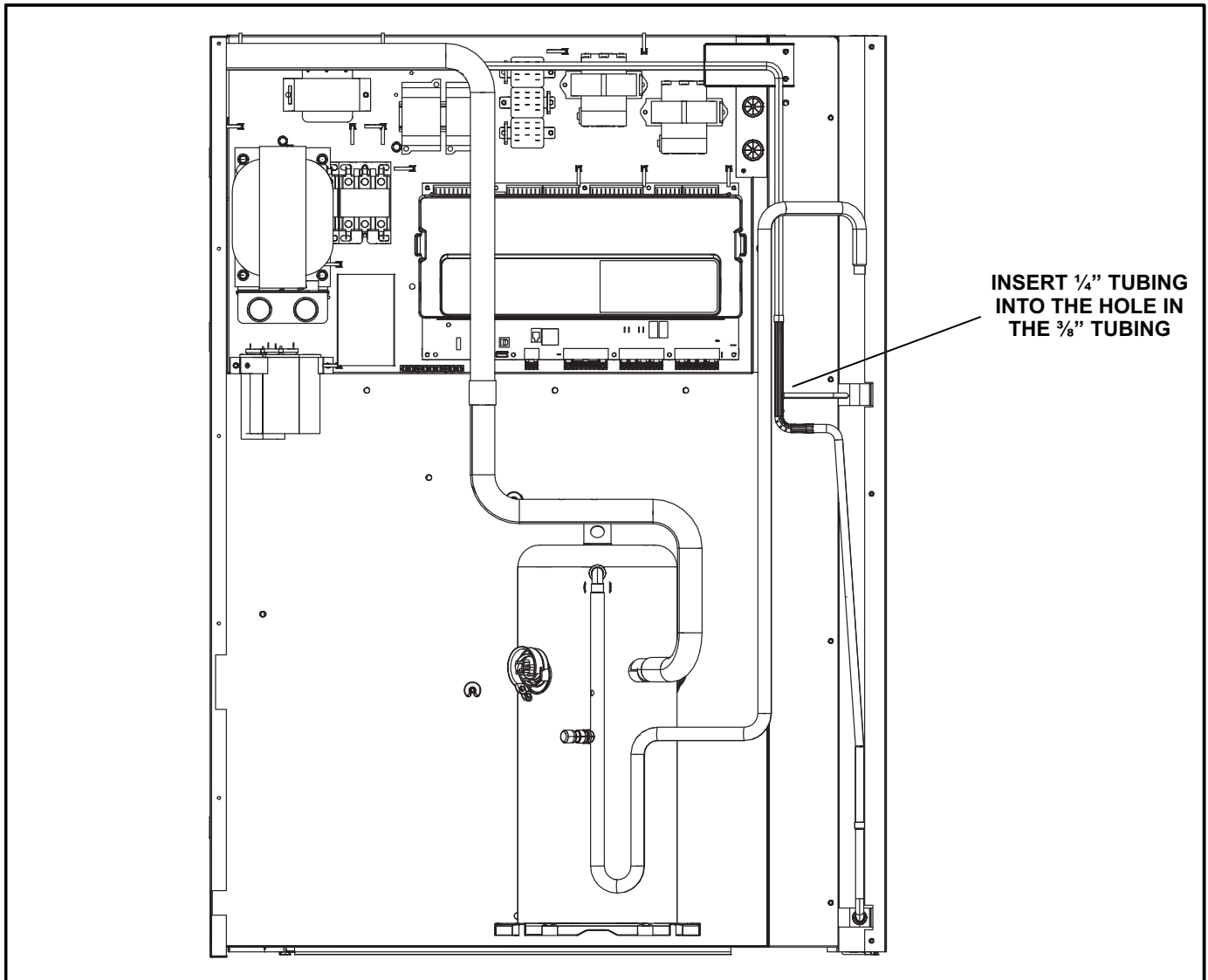



FIGURE 8

- 13- Braze all copper joints.
- 14- Use approved methods to leak check and evacuate the system.

⚠ WARNING	
	Danger of explosion. Can cause injury, death or equipment damage.
	Do not use oxygen to pressurize the refrigerant system. Oxygen and oil can combine to cause an explosion.

⚠ CAUTION
Danger of equipment damage.
Avoid deep vacuum operation. Do not use compressors to evacuate a system. Extremely low vacuums can cause internal arcing and compressor failure.
Damage caused by deep vacuum operation will void the warranty.

- 15- Charge system according to charging procedure sticker on unit.
- 16- Reconnect power to unit.