Technical Publications
Litho U.S.A.

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SOLENOID / DRIER REPLACEMENT KIT

INSTALLATION INSTRUCTIONS FOR SOLENOID / DRIER REPLACEMENT KIT (11H31; 612871-01) USED WITH LGH/LCH092-152U UNITS

Shipping and Packing List

Package 1 of 1 contains:

1- Solenoid / drier assembly

⚠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 qualified installer, service agency or the gas supplier

⚠CAUTION

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

Application

The solenoid / drier replacement kit is used on LGH/LCH092, 094, 120, 122, 152U ultra-high efficiency units. This is a replacement for the full load solenoid valve, part load solenoid valve, and filter/drier.

Solenoid / Drier Removal

⚠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.

CAUTION - Contaminated refrigerant and oil could contain heavy concentrations of hydrochloric and hydrofluoric acid. Avoid contact with skin or clothing. Do not breath any of the gases being discharged.

1- Disconnect electrical power to unit. Wait five minutes before continuing service procedures to avoid electrical shock. This will allow internal capacitors time to fully discharge.

2- Open blower access panel. See figure 1.

3- Remove clamps securing assembly to brackets. See figure 2.

IMPORTANT - Be extremely careful when determining if refrigerant is salvageable. In cases where salvaging is questionable, the risk of future compressor failure may be lessened if contaminated refrigerant is removed from service.

Several kits are available to check acid content of refrigerant to determine severity of burnout. Recover all refrigerant from BOTH the suction and discharge line and do not reuse.

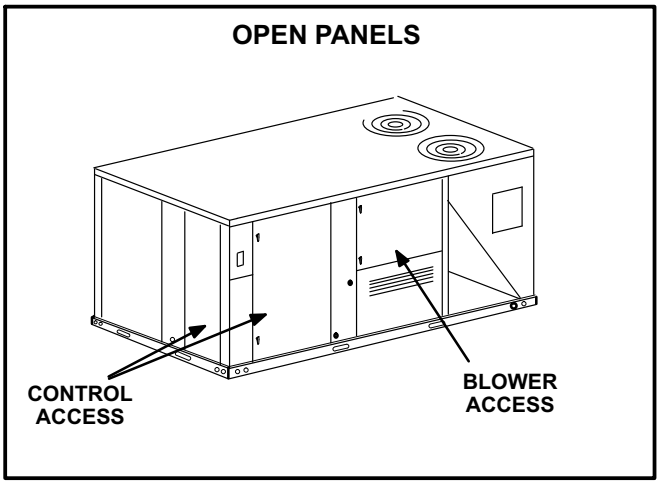

FIGURE 1

SOLENOID / DRIER ASSEMBLY IN UNIT

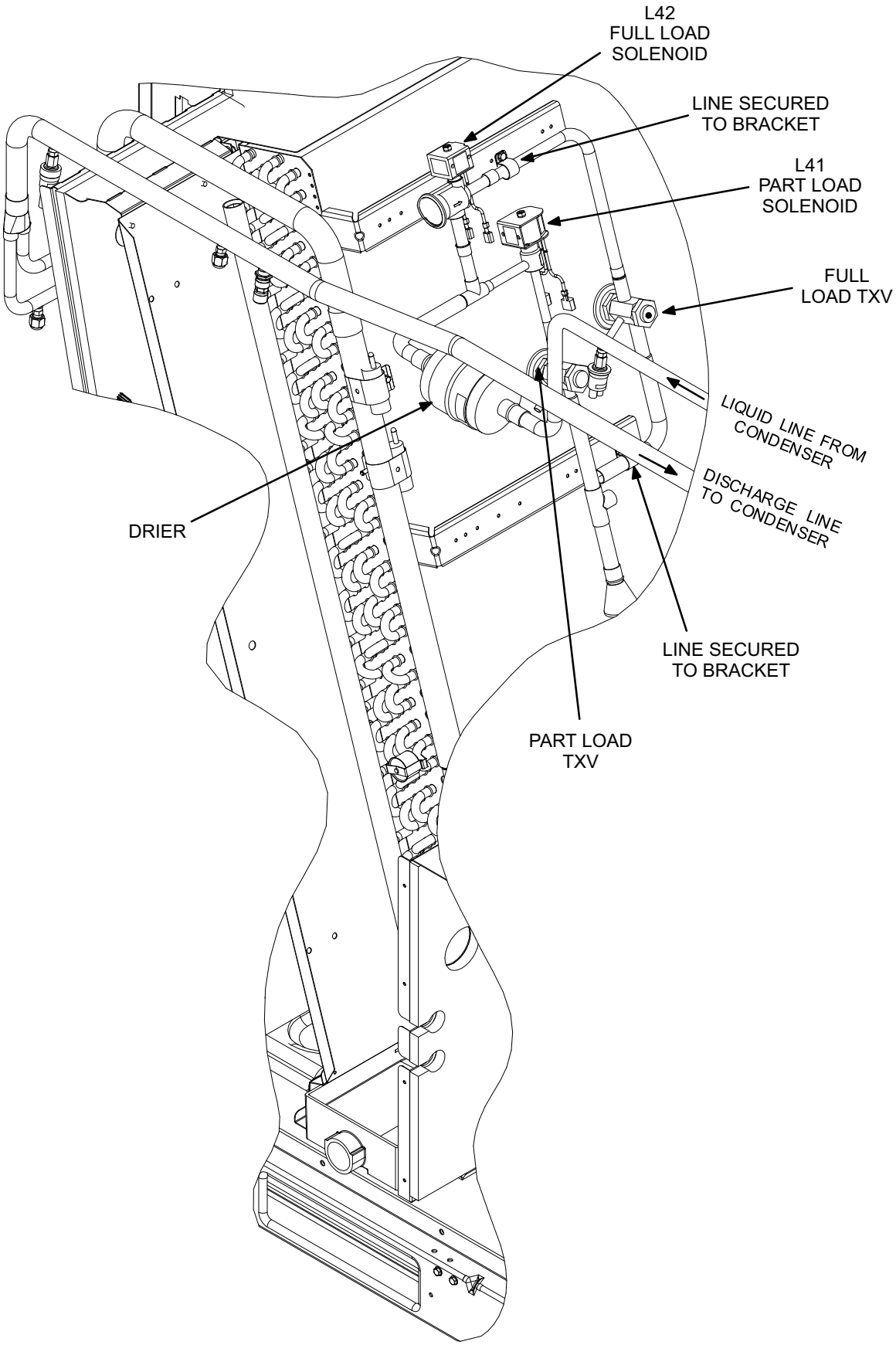

FIGURE 2

4- Mark and disconnect wiring to L42 full load and L41 part load solenoids shown in figure 3.

5- Unsweat plumbing in three locations shown in figure 4. Remove existing solenoid / drier assembly.

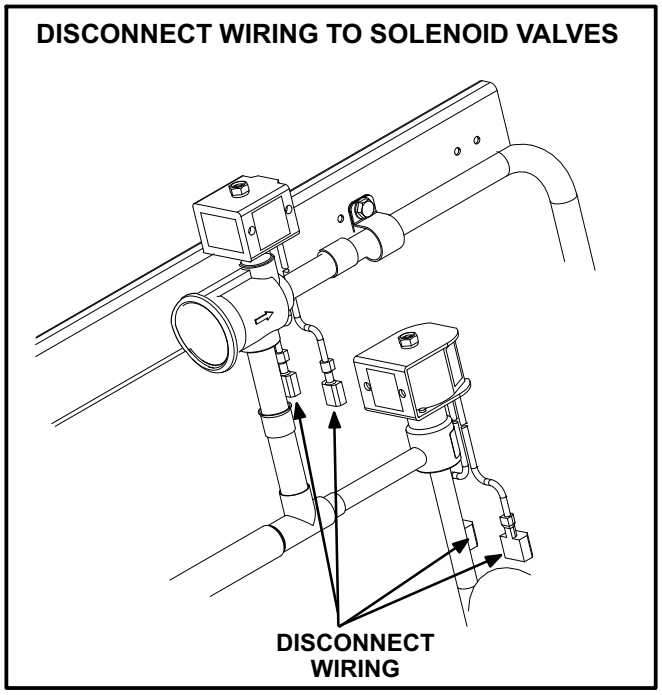

FIGURE 3

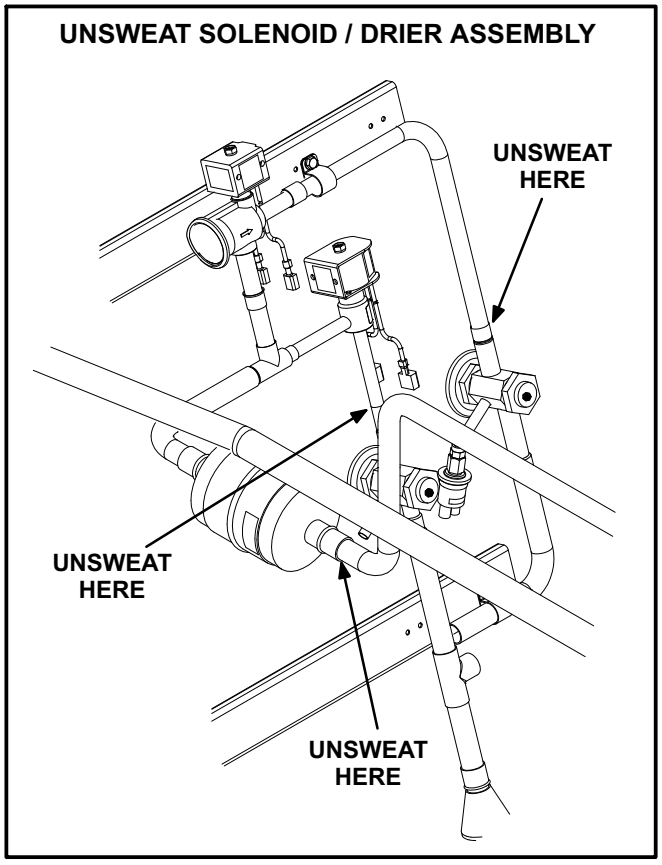

FIGURE 4

Solenoid / Drier Installation

1- Fit replacement solenoid / drier assembly into unit and place wet rags on both solenoids and the filter / drier. Braze assembly in three places assembly was previously unsweated. See figure 4.

2- Reconnect wiring to solenoids which was previously disconnected. Secure excess wiring away from hot plumbing lines.

Leak Check

Pressurize system to 150 psig using dry nitrogen. Check lines and connections for leaks.

IMPORTANT - This unit is equipped with solenoid valves which do not allow refrigerant flow between the high side and the low side when the unit is de-energized. Make sure to pressurize from BOTH the suction and discharge lines.

NOTE - If electronic leak detector is used, add a trace of refrigerant to nitrogen for detection by leak detector.

⚠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.

Charging

Charge system according to charging procedure sticker on unit.

IMPORTANT - This unit is equipped with solenoid valves which do not allow refrigerant flow between the high side and the low side when the unit is de-energized. When adding nameplate charge, add 1/3 to the suction line and 2/3 to the discharge line.