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KITS COMMON TO COOLING  
AND HEAT PUMP EQUIPMENT

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**LOSS OF CHARGE KIT**

**INSTALLATION INSTRUCTIONS FOR LOSS OF CHARGE KIT (LB-110135 / 84M23)  
USED WITH CONDENSING UNITS AND HEAT PUMPS**

**Shipping & Packing List**

Package 1 of 1 contains:

- 1 - Loss of charge switch (S24)
- 2 - Wire nuts
- 1 - Valve depressor tee fitting

**Application**

The loss of charge kit (LB-110135A / 84M23) is used with all condensing units and heat pumps which use either R-22 or R-410A refrigerant. The loss of charge switch protects the system compressor from damage due to a loss of charge. The single-pole / single-throw, normally closed switch is permanently adjusted to open at 25 psig ( $\pm 5$  psig). The switch automatically resets (closes) at 55 psig ( $\pm 5$  psig).

**⚠ WARNING**

**This kit is to be installed by a qualified Lennox service technician or other qualified agency in accordance with the manufacturer's instructions, all codes, and requirements of the authority having jurisdiction.**

**Installation**

**⚠ WARNING**

**Disconnect power before servicing unit.**

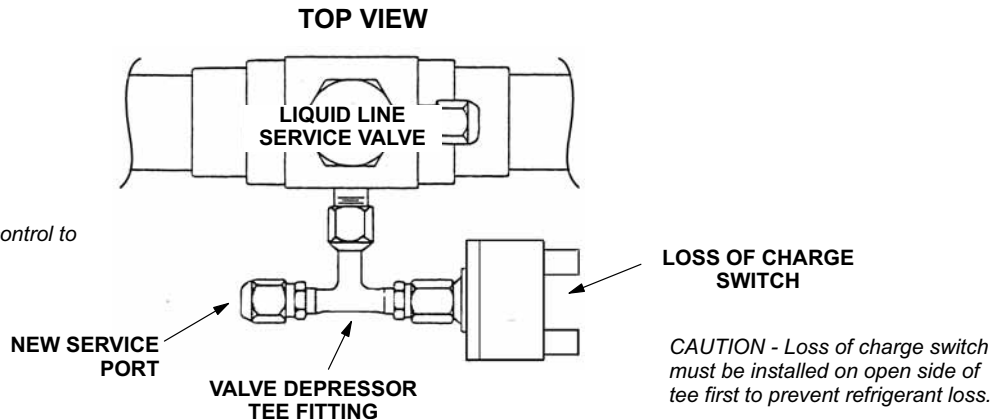
*NOTE - The depressor tee fitting provided with this kit is used to install the loss of charge switch on the liquid line service valve.*

- 1 - Disconnect power to unit.
- 2 - Install the provided loss of charge switch on an open port (no valve core) of the provided valve depressor tee fitting.

**NOTE - The pressure switch must be installed before the depressor tee fitting is installed in order to avoid refrigerant loss.**

- 3 - Install the depressor tee fitting on the liquid line service port. See figure 1 for illustration of typical installation.
- 4 - Check for leaks.
- 5 - Wire loss of charge switch in series with the compressor contactor coil. Refer to wiring diagram on unit and to field wiring diagrams in figures 2 and 3.
- 6 - Turn on power to unit.

**TYPICAL INSTALLATION LOSS OF CHARGE SWITCH**



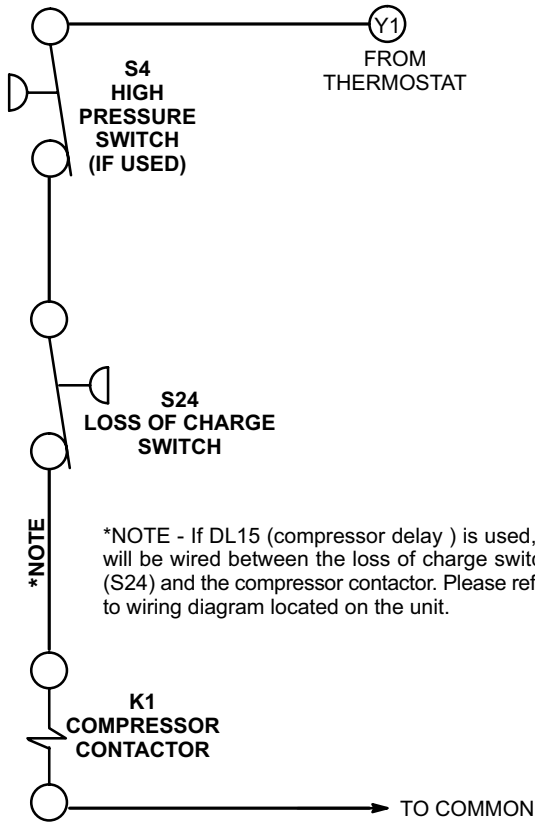
**FIGURE 1**

04/05

505,002M



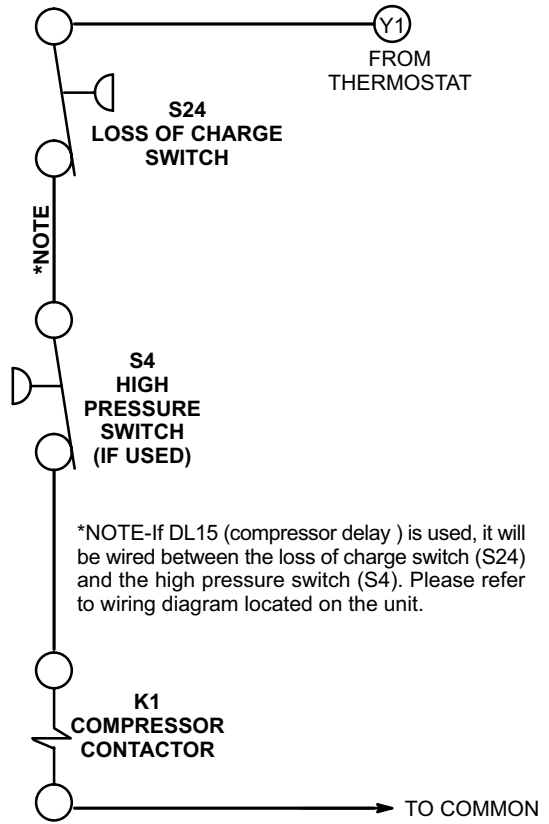
**LOSS OF CHARGE SWITCH WIRING  
FOR AIR CONDITIONING UNITS**



\*NOTE - If DL15 (compressor delay ) is used, it will be wired between the loss of charge switch (S24) and the compressor contactor. Please refer to wiring diagram located on the unit.

**FIGURE 2**

**LOSS OF CHARGE SWITCH WIRING  
FOR HEAT PUMP UNITS**



\*NOTE-If DL15 (compressor delay ) is used, it will be wired between the loss of charge switch (S24) and the high pressure switch (S4). Please refer to wiring diagram located on the unit.

**FIGURE 3**