INSTALLATION INSTRUCTIONS FOR DISCONNECT SWITCH KIT (603382-01 & 02; 54W56 & 54W57) USED ON LGH/LCH/KG/KC/KD/KH SERIES 092-150 UNITS

Shipping and Packing List

54W56 (80A)
Package 1 of 1 contains:
1- Disconnect switch (S48)
1- Mounting plate
1- Plastic disconnect cover
1- DIN rail
3- Wires
1- Bag assembly containing:
   6-#8-32 X 1/2 Screws
   2-Labels (S48, L123)
   2-Terminal covers

54W57 (150A)
Package 1 of 1 contains:
1- Disconnect switch (S48)
3- Wires
1- Plastic disconnect cover
1- Bag assembly containing:
   2-Labels (S48, L123)

Ordered and Shipped Separately:
An additional sheet metal cover kit must be installed on units built before April 2019. Contact customer service to order the appropriate kit. See table 1.

TABLE 1

<table>
<thead>
<tr>
<th>Unit</th>
<th>Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Heat with CAV Blower</td>
<td>14Y50</td>
</tr>
<tr>
<td>All Other Units</td>
<td>14Y51</td>
</tr>
</tbody>
</table>

Application

The Disconnect Switch Kit is used on LG/LC/KG/KC/KH/KD 092 through 150 units. Disconnect size depends on unit voltage, blower motor horsepower, and electric heat. Refer to product specifications to determine which size disconnect to use with each unit.

Installation

1- Disconnect all power to unit.
2- Locate the disconnect cover on the unit mullion near the compressor section. Remove screws securing the disconnect cover; retain cover and screws.
3- Remove TB2 terminal block from make-up box. Reinstall the TB2 terminal block ONLY when the unit contains electric heat and uses an 80 amp disconnect.
4- 80A Disconnects - Install mounting plate and DIN rail in wiring make-up box as shown in figure 1. Secure with #8 screws. Snap disconnect switch onto DIN rail. Reinstall TB2 on mounting plate above disconnect switch when unit contains electric heat.

150A Disconnects - Install disconnect in make-up box and secure with four #8 screws provided with disconnect. See figure 2. When hex nuts are not provided in unit, use field-provided nuts to secure screws in place.

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.

CAUTION

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.
5- Remove and retain the #6 screws securing the weatherproof cover installed on the disconnect box cover. See figure 3. Install the plastic disconnect cover in the same place using the #6 retained screws. See figure 4.

6- Affix labels to makeup box; refer to appropriate figure 1 or 2.

7- Install the disconnect box cover over the make-up box opening.

Note - Disconnects provided in this kit are bi-directional; disregard line and load side nomenclature on 80 amp disconnects.

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**FIGURE 1**

80A INSTALLATION

MAKE-UP BOX

#8-32 SCREWS

MOUNTING PLATE

DIN RAIL

#8-32 SCREWS

DISCONNECT SWITCH

L123 LABEL

S48 LABEL

**FIGURE 2**

150A INSTALLATION

MAKE-UP BOX

DISCONNECT SWITCH

L123 LABEL

S48 LABEL

**FIGURE 3**

DISCONNECT BOX COVER

REMOVE AND DISCARD WEATHER-PROOF COVER

DISCONNECT BOX COVER

**FIGURE 4**

INSTALL PLASTIC DISCONNECT COVER (LCH UNIT SHOWN)

DISCONNECT BOX COVER

PLASTIC DISCONNECT COVER
Wiring

Make wiring connections as follows and as shown on unit diagram. Refer to local codes.

Use the following figures to make wiring connections.

80A Disconnects

Install plastic terminal covers on the disconnect switch after wiring connections are completed.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Disconnect</th>
<th>Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Electric Heat</td>
<td>Any</td>
<td>Figure 5</td>
</tr>
<tr>
<td>Electric Heat Installed</td>
<td>80 Amp</td>
<td>Figure 6</td>
</tr>
<tr>
<td>Electric Heat Installed</td>
<td>150 Amp</td>
<td>Figure 7</td>
</tr>
</tbody>
</table>

**WIRING - NO ELECTRIC HEAT**

EXISTING WIRING

**WIRING MAKE-UP BOX**

TB2 (LGH)  
F4 (LCH)

FIELD POWER WIRING

L1 L2 L3  
T1 T2 T3

FACTORY WIRING

K3

**FIGURE 5**

**WIRING - UNITS WITH ELECTRIC HEAT USING 80 AMP DISCONNECT**

EXISTING WIRING

**WIRING MAKE-UP BOX**

TO F4 FUSES  
TB2

FIELD POWER WIRING

FACTORY OR FIELD-INSTALLED ELECTRIC HEAT WIRING

**FIGURE 6**
EXISTING WIRING

WIRING MAKE-UP BOX

TO F4 FUSES

TO ELECTRIC HEAT ASSEMBLY

FIELD POWER WIRING

FACTORY OR FIELD-INSTALLED ELECTRIC HEAT WIRING

S48 INSTALLED

WIRING MAKE-UP BOX

TO F4 FUSES

TO ELECTRIC HEAT ASSEMBLY

L123 LABEL

S48 LABEL

FIELD POWER WIRING

FACTORY OR FIELD-INSTALLED ELECTRIC HEAT WIRING

FIGURE 7