

## Instructions

January, 2013

**IMPORTANT**

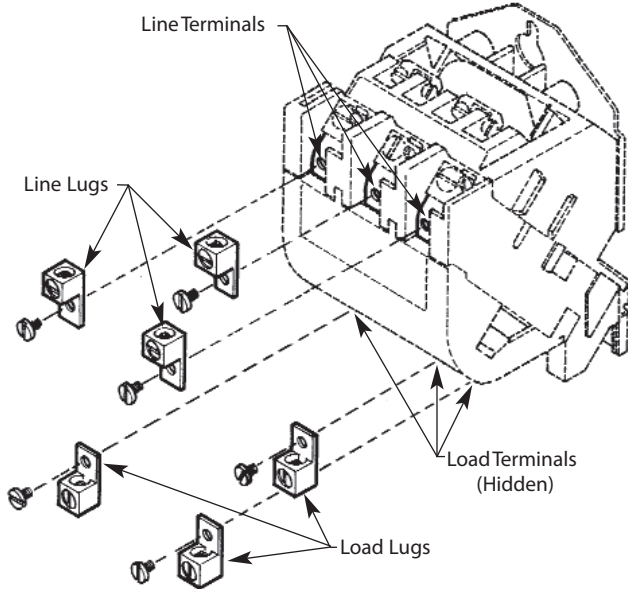
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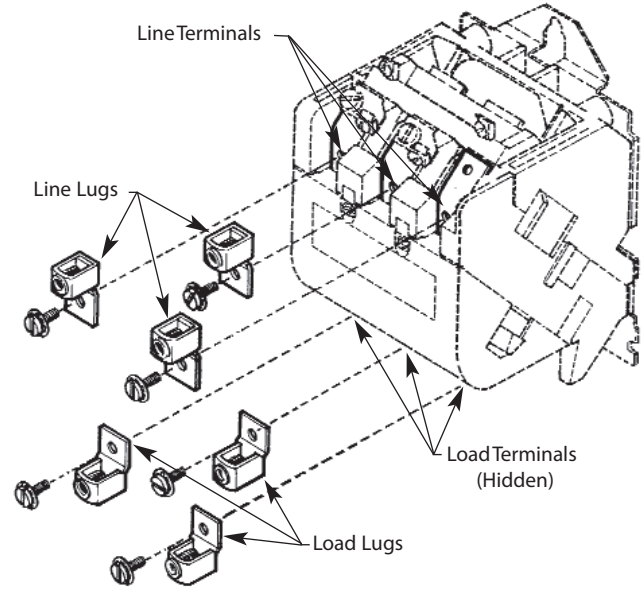
E87010-A0038-T003-A1-49SA

Lug Kits  
Class All Magnetic Controllers  
Cat. No.49SAAF, 49SAAH

Lug Kit 49SAAF  
Size 2



Lug Kit 49SAAH  
Size 3



	<b>WARNING</b>
	<p>Hazardous voltage. Can cause death, serious personal injury, or property damage.</p> <p>Disconnect power before working on this equipment.</p>

### DESCRIPTION

The lug kits provide a method of adapting contactors for use with aluminum power wires.

Use with all classes of contactors in all NEMA type enclosures. Each kit catalog number applies to specific control unit sizes as noted in the illustration.

Rating: The lugs assume the rating of the control on which they are mounted.

Contents of kits: (Catalog numbers 49SAAF and 49SAAH) Each kit contains six aluminum lugs, three for the line terminals and three for the load terminals of the control unit.

### INSTALLATION

1. Remove the line and load lugs furnished with the control unit. Retain the screws and discard the lugs.
2. Secure an aluminum lug to each control unit line and load terminal with a screw.
3. Loosen lug set screw and insert properly prepared aluminum wire in the lug. Tighten set screw to 24 inch-pounds minimum torque.

Wire preparation: Observe the wire manufacturer's instructions. If instructions are not available, prepare wire as follows:

1. Select aluminum wire size in accordance with National Electrical Code requirements.
2. Strip insulation from the wire end so that bare wire completely enters the lug and the insulation fits close to the lug. Avoid nicks and cuts to the aluminum conductors; never "ring" the insulation. The insulation should be either whittled (penciled) or skinned back from the wire end and trimmed.
3. Clean the conductors and apply aluminum joint compound. When using aluminum joint compound, work quickly to avoid oxidation.
4. Insert the wire in the lug and quickly tighten the lug set screw to 24 inch-pounds minimum torque. A good preventive maintenance program includes a regular set screw tightness check.

(For Engineering Reference Only - Rev. D)