

Instruction Bulletin

NQ Panelboard Crimp Main Lug Kit (100, 225, 400, and 600 Amp)

Class 1640

Introduction

Retain for future use.

This bulletin contains instructions for installing a Square D® brand crimp lug kit onto a Square D brand NQ panelboard manufactured by Schneider Electric.

Safety Precautions

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

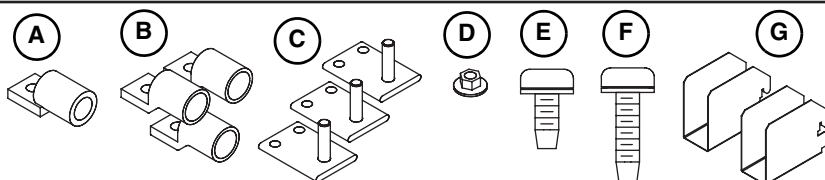
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

Kit Contents

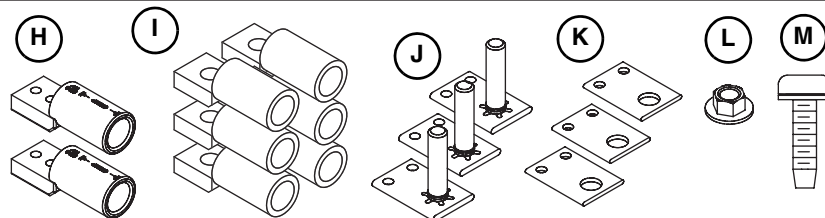
NQALV1, NQALV2, NQCUV1, and NQCUV2

- A. Neutral crimp lug (1)
- B. Main crimp lugs (3)
- C. Crimp lug pad (3)
- D. Keps nut (3)
- E. 1/4-20 x 9/16-inch tapping screw (1)
- F. 1/4-20 x 7/8-inch tapping screws (6)
- G. Lug barriers (2)



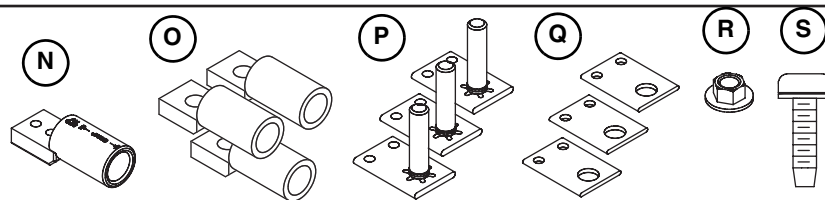
NQALV4

- H. Neutral crimp lug (2)
- I. Main crimp lugs (6)
- J. Crimp lug pad (3)
- K. Crimp lug pad doubler (3)
- L. Keps nut (3)
- M. 1/4-20 x 7/8-inch tapping screws (10)



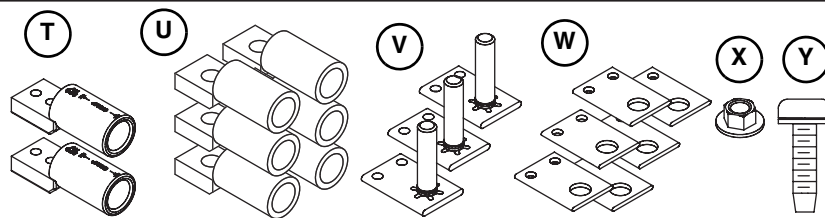
NQCUV4

- N. Neutral crimp lug (1)
- O. Main crimp lugs (3)
- P. Crimp lug pad (3)
- Q. Crimp lug pad doubler (3)
- R. Keps nut (3)
- S. 1/4-20 x 7/8-inch tapping screws (8)



NQALV6 and NQCUV6

- T. Neutral crimp lug (2)
- U. Main crimp lugs (6)
- V. Crimp lug pad (3)
- W. Crimp lug pad doubler (6)
- X. Keps nut (3)
- Y. 1/4-20 x 7/8-inch tapping screws (10)



NOTE: Screws enlarged to show detail.

Tools Needed

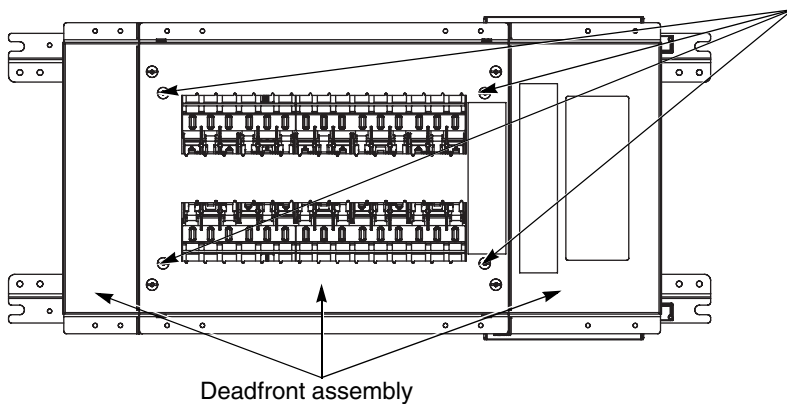


- #2 Square-head Robertson driver
- Torque wrench with 1/2-inch Allen driver for 100 A and 225 A applications (**NQALV1**, **NQALV2**, **NQCUV1**, and **NQCUV2**)
- Torque wrench with 3/4-inch Allen driver for 400 A and 600 A applications (**NQALV4**, **NQCUV4**, **NQALV6**, and **NQCUV6**)
- Torque wrench with 1/2-inch hex socket driver for 100 A and 225 A applications (**NQALV1**, **NQALV2**, **NQCUV1**, and **NQCUV2**)
- Torque wrench with 3/4-inch hex socket driver for 400 A and 600 A applications (**NQALV4**, **NQCUV4**, **NQALV6**, and **NQCUV6**)

Installing the Crimp Main Lug Kit



Turn off all power supplying this equipment before working inside the panelboard; follow all lockout/tagout procedures.



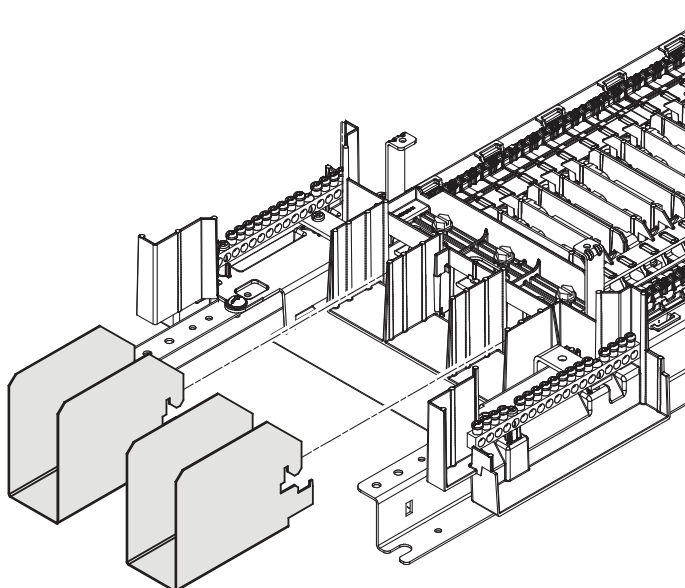
- 1 Remove the deadfront assembly. Retain the four screws for reuse.

- 2 Remove the line lugs from the panel bus and the neutral lug(s) from the neutral bus. Discard the removed lugs and screws.

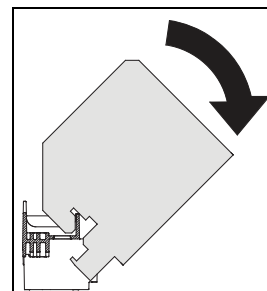
NOTE: For 400 A and 600 A panelboards, do not remove the existing plastic lug barriers.

For 400 A and 600 A applications (catalog numbers **NQALV4**, **NQCUV4**, **NQALV6**, and **NQCUV6**), skip step 3 through step 6.

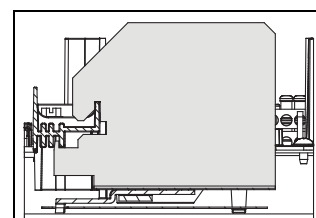
- 3 Assemble the lug barriers included in the kit onto the end support, with one on "A" Phase and one on "C" Phase.



Barrier Rotates into Place



Barrier Installed



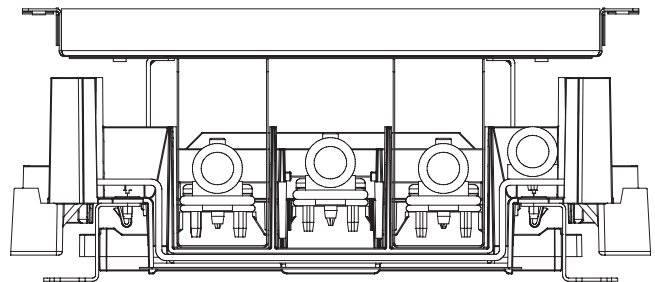
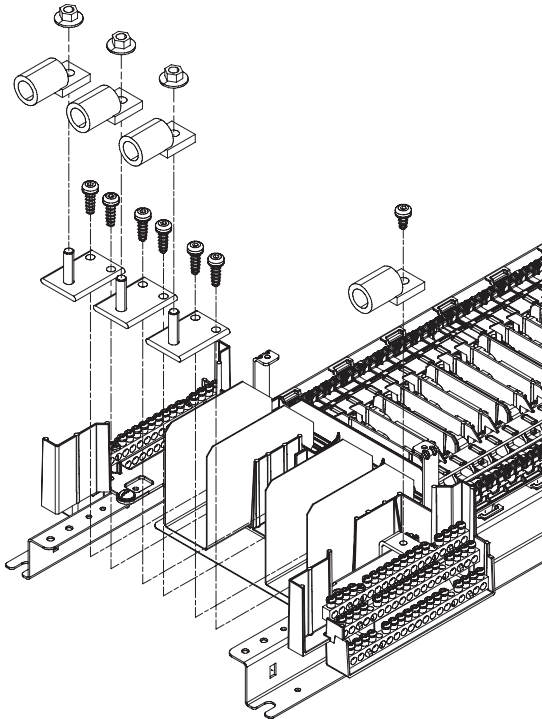
4 NOTE: Do not overtighten the screws.

Install the crimp lug pads included in the kit on the panel bus using the 1/4-20 x 7/8-inch tapping screws included in the kit. Tighten to 25–30 lb-in (2.8–3.4 N•m).

NOTE: The middle lug and lug pad is installed for three-phase panelboards only.

5 Install the main crimp lugs included in the kit onto the crimp lug pads using the Keps nut included in the kit. Tighten to 80–175 lb-in (9.0–19.8 N•m).

**100 A and 225 A Panelboard Installation
(NQALV1, NQALV2, NQCUV1, and NQCUV2)**



**100 A and 225 A Lugs Installed
(NQALV1, NQALV2, NQCUV1, and NQCUV2)**

6 NOTE: Do not overtighten the screw.

Install the neutral crimp lug included in the kit onto the neutral bar using the 1/4-20 x 9/16-inch tapping screw included in the kit. Tighten to 25–30 lb-in (2.8–3.4 N•m).

For 100 A and 225 A applications (catalog numbers NQALV1, NQALV2, NQCUV1, and NQCUV2), skip step 7 through step 9.

7 NOTE: Do not overtighten the screws.

Install the crimp lug pads and crimp lug pad doublers included in the kit on the panel bus using the 1/4-20 x 7/8-inch tapping screws included in the kit. Tighten to 60–65 lb-in (6.8–7.3 N•m).

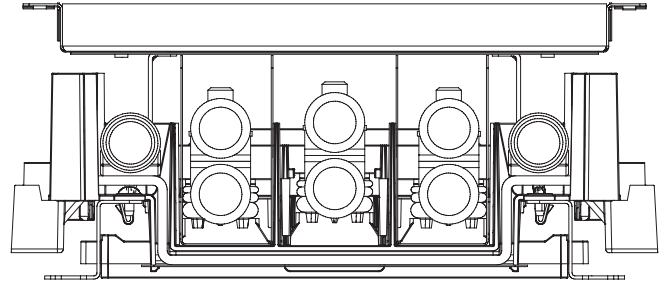
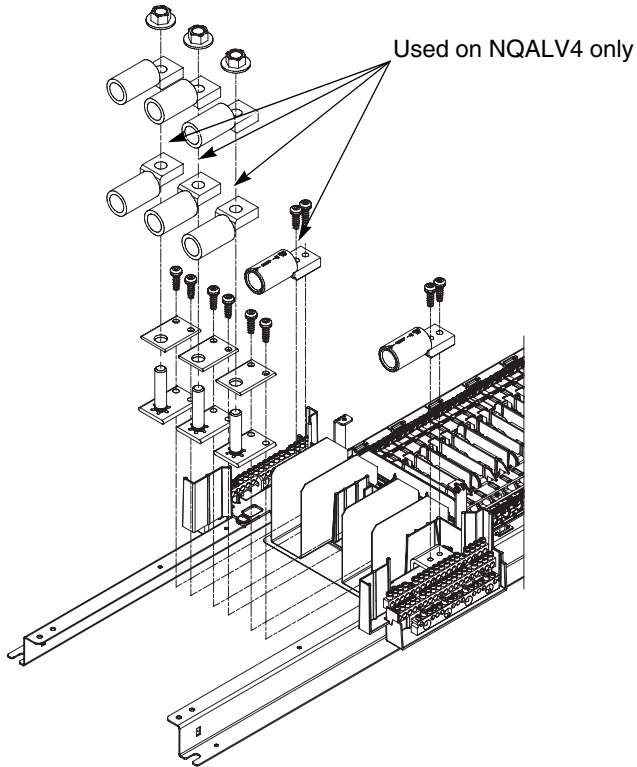
NOTE: The middle lug and lug pad is installed for three-phase panelboards only.

8 Install the main crimp lugs included in the kit onto the crimp lug pads using the Keps nut included in the kit. Tighten to 250–350 lb-in (28.2–39.5 N•m).

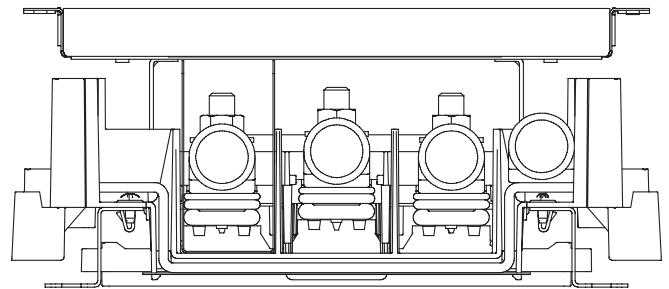
9 NOTE: Do not overtighten the screws.

Install the neutral crimp lug(s) included in the kit onto the neutral bar using the 1/4-20 x 7/8-inch tapping screws included in the kit. Tighten to 60–65 lb-in (6.8–7.3 N•m).

**400 A Panelboard Installation
(NQALV4 and NQCUV4)**

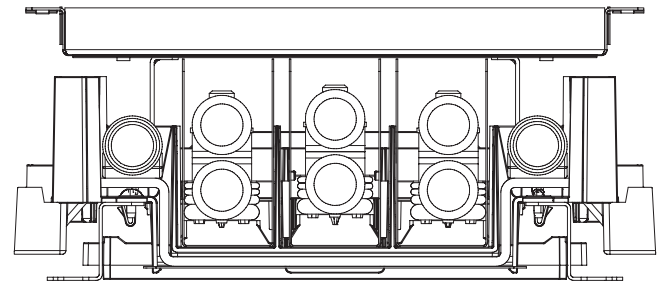
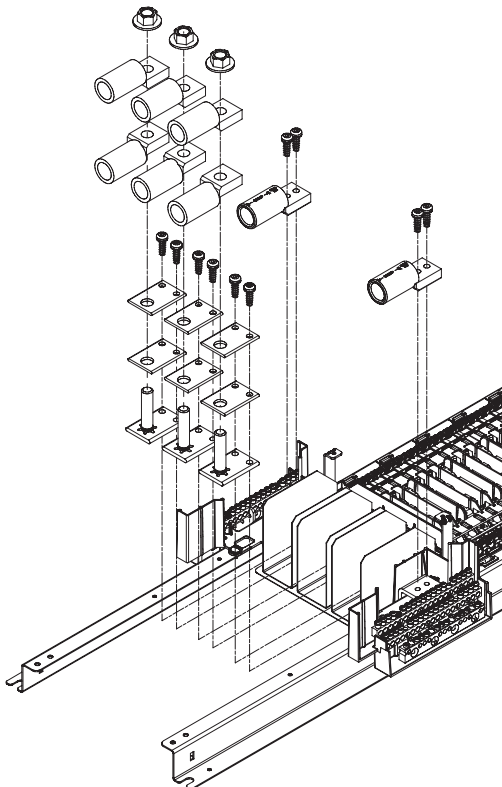


400 A Lugs Installed — NQALV4



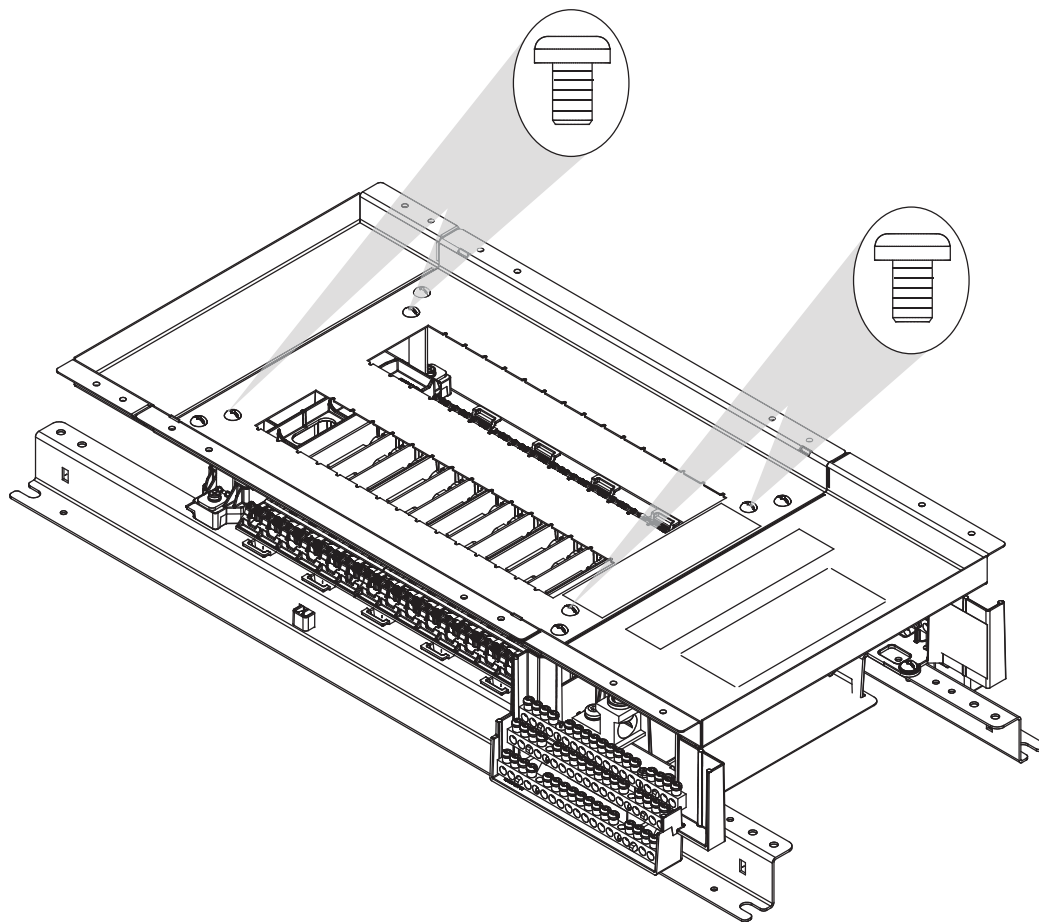
400 A Lugs Installed — NQCUV4

**600 A Panelboard Installation
NQALV6 and NQCUV6**



**600 A Lugs Installed
(NQALV6 and NQCUV6)**

10 Remount the deadfront assembly using the screws retained from step 1.



For technical support on the installation of this kit, contact the Square D/Schneider Electric Customer Information Center at 1-888-SquareD (1-888-778-2733).

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Advertencia de la Proposición 65 de California— compuestos de níquel y Bisfenol A (BPA)

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⚠ WARNING: This product can expose you to chemicals including Nickel compounds, which are known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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