CENTERLINE® Motor Control Centers

Install Neutral Connection Plate in Bulletin 2100 Section

Catalog Numbers: 2100H–NPC1
2100H–NPC2
2100H–NPC3

Instructions

Application

Use these instructions to install a neutral connection plate in a Bulletin 2100 motor control center section. Instructions apply to the following kits:

- Catalog number 2100H–NPC1 (for top horizontal wireway)
- Catalog number 2100H–NPC2 (for incoming line compartment or for 0.5 space factor units)
- Catalog number 2100H–NPC3 (for bottom horizontal wireway)

ATTENTION: De–energize all power sources to the motor control center before installing neutral connection plate. Failure to de–energize all power sources can result in severe injury or death.

Recommended Tools

Screwdriver, 5/16" and 7/16" wrench or socket, torque wrench

Installation

Refer to Figure 1, 2, or 3,
use the following steps to install a neutral connection plate:

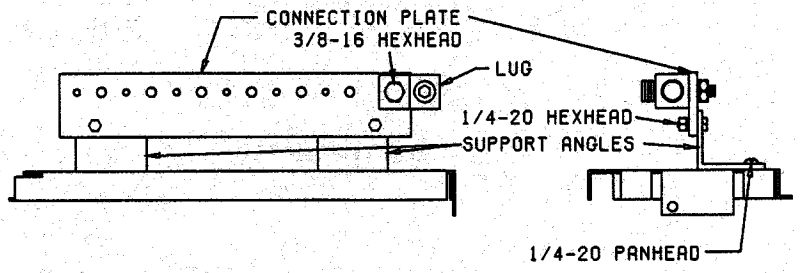
1. Make sure that all power has been disconnected.
2. Remove the unit support pan or top horizontal wireway pan from the appropriate location. (See Publication 2100–5.0 for removal instructions.)
3. Replace the unit support pan or top horizontal wireway pan with the modified unit support pan or modified horizontal wireway pan. If there is interference from other parts, unassemble the neutral connection plate assembly from the pan, and install the pan.
4. If necessary, reattach the neutral plate assembly. Torque to 45 lb–in (4.9 N–m).

Installation instructions continued on back .....

5. For catalog number 2100H–NPC3 (for bottom horizontal wireway): If unit support pan removed in Step 1 has a latch/interlock bushing installed, remove this bushing and reinstall it on the pan supplied with the kit. Torque to 32 lb–in (3.48 N–m).

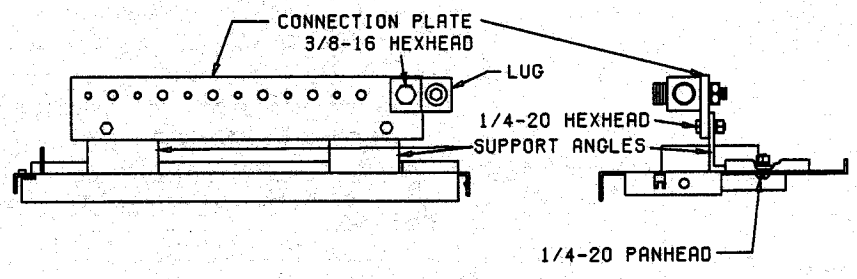
Important: If the feed to the neutral connection plate kit is separated from the phase conductors by a complete path of magnetic material, the current that is feeding the neutral connection plate kit must not exceed 280 amperes rms. Lug supplied has a wire capacity of #6–250 kcmil and should be torqued to 370 lb–in (40.2 N–m).

Figure 1
For Top Horizontal Wireway



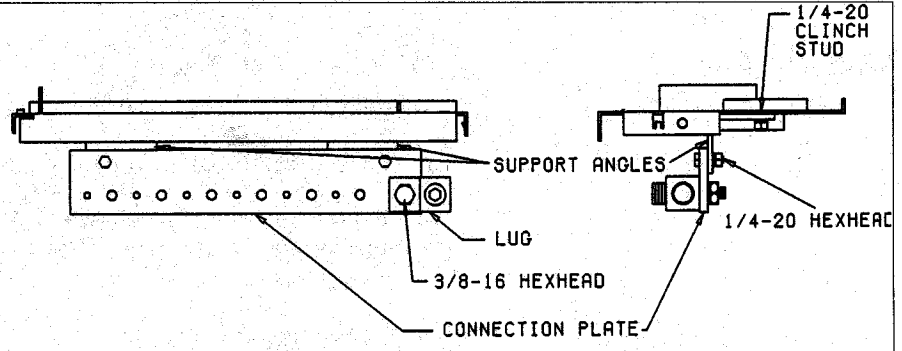
MODIFIED HORIZONTAL WIREWAY PAN
FOR TOP WIREWAY
(FOR 2100-NPC1)

Figure 2
For Incoming Line Compartment or for 0.5 Space Factor Units



MODIFIED UNIT SUPPORT PAN
FOR 0.5 SPACE FACTOR UNIT
(FOR 2100-NPC2)

Figure 3
For Bottom Horizontal Wireway



MODIFIED UNIT SUPPORT PAN
FOR BOTTOM WIREWAY
(FOR 2100-NPC3)

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