INSTALLATION INSTRUCTIONS

SEE NOTE

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SEE

NOTE 4

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SEE NOTE 7

Please Note Before Installation

Hardware Resource Company (HRC) cannot control the use or installation of add-on, spare, or replacement parts. Therefore, HRC shall have no responsibility for injury or damage resulting from improper installation or other misuse. Parties undertaking use of these parts assume full responsibility for following proper installation procedures.

Instructions for installing replacement connecting hardware kits

- Ensure all electrical power and voltage has been turned off, locked off, and tagged out. Do not attempt to install product into a switchboard or panelboard while energized. Installation of this product should performed by qualified personnel only.
- 2.) a calibrated voltage detection instrument. After electricity has been locked off and tagged out, confirm that no electrical current is present by using
- <u>(3</u> Remove dead front cover plates as necessary to gain access to work area
- 4. Tighten screws or bolts to finger tight at this point. De-energized bus bar should now be exposed. Install the B phase (center phase) connector first.
- 5.) Install out side phase connector(s), and tighten with fingers

THIS MOUNTING AVAILABLE ON PANELS BUILT AFTER OCTOBER 2002

FRONT VIEW SHOWING MOUNTING LOCATIONS OF CONNECTIONS TO BUS BARS AND BREAKER MOUNTING BRACKET TO "Z" RAILS

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10UNTING BRACKED TO SHOW (
15 TO 16)

CONNECTORS

SEE NOTE 11

(5)

USE APPROPRIATE FILLER PLATE
BASED ON SECTION WIDTH

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(6)

LOD 5522V

(19)

SEE NOTE 8

SEE

NOTE

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LEFT PHASE

CENTER PHASE

RIGHT PHASE

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- 6.) Install bus bar anti-turn devices if provided. (Not all kits utilize anti-turn devices.)
- 7.) Install circuit breaker or switch mounting brackets if provided
- ... If available, place the circuit breaker or switch into its intended location to verify proper alignment and fit. If not available, refer to the attached assembly drawings for proper dimensions and locations of fit. If not available, refer to the attached assembly drawings for procomponents parts. (Circuit breaker or switch is not included in this kit.)

21P-208C1850P4 (35 WIDE SECTIO

21P-208C1850P3 (40 & 45 WIDE SECTIONS)

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- 9.) reduce proper electrical clearances, or damage insulated conductors. Remove any obstructions or foreign materials before continuing. visible obstructions or foreign materials present that might listed in table to the right. Check to be sure there are no connections with a calibrated torque wrench to the values After proper alignment has been verified, tighten all bus
- 10.) If not available, go to step 11. available, install circuit breaker or switch onto connectors
- 11.) Install circuit breaker or switch filler plates when provided. (Some may not be required with twin-mounted breakers)

12.)

shall re-energize any switchboard or panel board. switchboard or panelboard without first following all safety and procedural practices necessary to ensure it is safe to and procedural practices necessary to ensure it is safe to re-apply power to the equipment. Only qualified personnel Re-install dead front cover plates. Do not re-energize the

| Torqu Alum | Torque Values for Copper or Aluminum Bar Connections | r Copper or onnections |
|-------------------------|---|------------------------|
| Bolt Size Inch, (mm) | ize mm) | Torque lb, - in. |
| #10 | | 30 |
| 1/4 | (6.4) | 65 |
| 5/16 | (7.9) | 128 |
| 3/8 | (9.5) | 240 |
| 1/2 | (12.7) | 600 |

| Torqu Alum | Torque Values for Copper or Aluminum Bar Connections | Copper or nections |
|-------------------------|---|---------------------|
| Bolt Size Inch, (mm) | ize mm) | Torque lb, - in. |
| #10 | | 30 |
| 1/4 | (6.4) | 65 |
| 5/16 | (7.9) | 128 |
| 3/8 | (9.5) | 240 |
| 1/2 | (12.7) | 600 |

| 21P-208C1850P3 | 21P-208C1850P3 | П | FILLER MOUNTING BRACKET | ro | |
|--------------------------|-------------------|-----|----------------------------|------|----------|
| 21P-252B1667P1 (20) 10 | P-252B1667P1 | 21 | FILLER INSULATION BARRIER | 1 | 9 |
| 21F-D7APN6B-00 (19) 4 | 21F-D7APN6B-00 | D) | DEAD FRONT/FILLER BLANK | 5 | 6 |
| 21F-D147TQD-00-45 (18) 6 | 1F-D147TQD-00-45 | n | DEAD FRONT/FILLER PLATE 45 | 1 | 9 |
| 21F-D147TQD-00-40 (17) 4 | 1F-D147TQD-00-40 | ro | DEAD FRONT/FILLER PLATE 40 | 1 | 9 |
| 21F-D147TQD-00-35 (16) 2 | 1F-D147TQD-00-35 | ro | DEAD FRONT/FILLER PLATE 35 | 1 | 9 |
| 21S-AT10-02 (15) 6 | S-AT10-02 | 21 | PHASE ANTI TURN DEVICE | 3 | 6 |
| 21I-FP20-00 (14) 3 | 1I-FP20-00 | ניי | FISH PAPER INSULATION | 2 | (J |
| 21M-D7APN5-00 (13) 3 | M-D7APN5-00 | 21 | BREAKER MOUNTING BRACKET | ഉ | 4 |
| 21M-D7APN-01 (12) 3 | M-D7APN-01 | 22 | BREAKER MOUNTING BRACKET | N | ω |
| 21J-D147TQD-00-02 (1) | LJ-D147TQD-00-02 | Ŀΰ | B PHASE CONNECTOR | Ľ | N) |
| 21J-D147TQD-00-01 (10) 2 | 21J-D147TQD-00-01 | | A & C PHASE CONNECTOR | ಣ | Θ |
| DWG No. ITEM QTY. | DWG No. | | DESCRIPTION | QTY. | ITEM |
| | | | | | |

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|-----------|---------------------------|---------------------------|-------------------------|--------------------------|---------------------------|------------------------|--------------------|-------------------|--------------------------|-------------------|-------------------------|
| | 10 | 4 | 6 | 4 | 2 | 6 | ω | ω | ω | | ည |
| | 1%2 X %" ROUND HEAD SCREW | %2 X 2¾" ROUND HEAD SCREW | ¼-20 × ¾″ SELF TAP BOLT | %2 X %″ ROUND HEAD SCREW | 1%2 X ¾" ROUND HEAD SCREW | 1%2 X ½" SELF TAP BOLT | 14-20 STAR HEX NUT | 14-20 FLAT WASHER | ¼-20 × 1½" CARRIAGE BOLT | BREAKER OR SWITCH | FILLER MOUNTING BRACKET |
| | | | | | | | 21H-147TQD-00 | | | | 21P-208C1850P4 |

DESCRIPTION

NOTICE

| 1 | THE L TRAD AND PROD |
|---|--|
| TITLE: GENERAL ELECTRIC 225AMP MOUNTING HARDWARE FOR TRAWIN | THE USE OF THE ORIGINAL EQUIPMENT MANUFACTURER'S TRADEMARK IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT REPRESENT AN ENDORSEMENT OF THIS PRODUCT BY THE MANUFACTURER. |
| DRAWING No. 21-: | POSES ONLY ENT OF THIS |
| 1.4. | |

| TQD, THQD BREAKERS IN APN TYPE K | |
|----------------------------------|-------------|
| KIT No. | DRAWING No. |
| 21-D147TQD | 21-D7 |
| REV | LAYER |
| | TQD |