

**RECTIFIERS**  
**KS-19210 L23 AND L24**  
**+24 VOLTS, 400 AMPERES**  
**OPERATING METHODS**

**1. GENERAL**

**1.001** This addendum supplements Section 169-704-313, Issue 1. Place this pink sheet ahead of page 1 of the section.

**1.002** This addendum is issued to include information on TEST mode startup of List 23 and List 24 units equipped with ZL option high voltage monitor circuit and ZX option NOR-TST (S5) key (WEC0 479AU) and wiring. This addendum does affect the Equipment Test List.

**2. CHANGES TO SECTION**

**2.001** On Page 11, after paragraph 4.10, add the following:

**4.11 TEST Mode Startup for KS-19210 Lists 23 and 24 With ZL And ZX Options**

- (1) Operate the OFF-NOR (S4) switch to the OFF position.
- (2) Operate the DC OUTPUT (S1) switch to the OFF position.
- (3) Block the K5 relay operated.

**Note:** K5 relay is located on the front of the meter panel.

- (4) Operate the NOR-TST (S5) key to the NOR position.

- (5) Operate the OFF-NOR (S4) switch to the NOR position.

- (6) Read the OUTPUT voltmeter (VM1) or the KS-14510 volt-ohm-milliammeter, set to the 60-volt dc scale, connected across the J11 and J12 test jacks.

- (7) When the OUTPUT voltmeter, or KS-14510 multimeter, indicates between 23 and 26.5 volts dc, operate the NOR-TST (S5) key to the TST position.

- (8) Quickly remove the block from the K5 relay.

**Caution: Immediately remove the block from K5 relay after startup to ensure a trouble shutdown is no longer inhibited.**

**Note 1:** The rectifier KS-19210 Lists 23 and 24 with ZX and ZL options will remain in the shutdown mode when the NOR-TST (S5) key is operated in the TST position, unless the K5 relay is blocked unoperated (to obtain voltage equal to the battery voltage on the rectifier before the S5 key is operated to the TST position). Unblock relay K5 and the rectifier will continue to operate in the TEST mode.

**Note 2:** Whenever the rectifier shuts down or locks out when operating in the TEST mode, operate the ZX option NOR-TST (S5) key to NOR and repeat (1) and (3) through (8) to restart.

**NOTICE**

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