

# PRODUCT INFORMATION

Replacement for Onan P/N 300-2880

Voltage Regulator

| GENSET<br>KW<br>RANGE | STABILITY<br>RANGE |      | REGULATION MODE |      |      |          |      |      |           |      |      |           |      |      |
|-----------------------|--------------------|------|-----------------|------|------|----------|------|------|-----------|------|------|-----------|------|------|
|                       |                    |      | TMB:60Hz        |      |      | TMB:50Hz |      |      | TMB: NON- |      |      | TMA: NON- |      |      |
|                       | S1-1               | S1-2 | S2              | S3-1 | S3-2 | S2       | S3-1 | S3-2 | S2        | S3-1 | S3-2 | S2        | S3-1 | S3-2 |
| 20-35                 | OFF                | OFF  | POS2            | OFF  | ON   | POS2     | ON   | ON   | POS2      | OFF  | OFF  | POS1      | OFF  | OFF  |
| 36-50                 | OFF                | ON   | POS2            | OFF  | ON   | POS2     | ON   | ON   | POS2      | OFF  | OFF  | POS1      | OFF  | OFF  |
| 51-100                | ON                 | OFF  | POS2            | OFF  | ON   | POS2     | ON   | ON   | POS2      | OFF  | OFF  | POS1      | OFF  | OFF  |
| 101-350               | ON                 | ON   | POS2            | OFF  | ON   | POS2     | ON   | ON   | POS2      | OFF  | OFF  | POS1      | OFF  | OFF  |

**WARNING:** Incorrect installation, service, or replacement of parts can result in severe personal injury or death, and/or equipment damage. Service personnel must be qualified to perform electrical and mechanical service.

**WARNING:** High voltages within the control cabinet can cause severe personal injury or death. Use extreme caution to avoid touching electrical contacts.

## Voltage Regulator Preliminary Setting

Locate switch S1 on the voltage regulator board (Figure 1). Set the two parts of switch S1 as listed in the above table. For example, if the generator set is rated at 75 kilowatts, set switch S1 (1) to ON and S1 (2) to OFF.

Set the torque matching modes of the new voltage regulator by setting switches S2 and S3 as shown in the table above. For Example, 60Hz TMB regulation mode, set switch S2 in position 2, switch S3 (2) to ON and S3 (1) to OFF.

## Wiring

T-7 Tie point from generator to Screw 2

Screw 3-4 bridged

Screw 3 to excitation breaker to gen T-8

If no new 303-0261 rheostat, bridge screws 7-8 with 3600 ohm ½ watt resistor

Screw 9 – F1 field exciter

Screw 10 – F2 field exciter

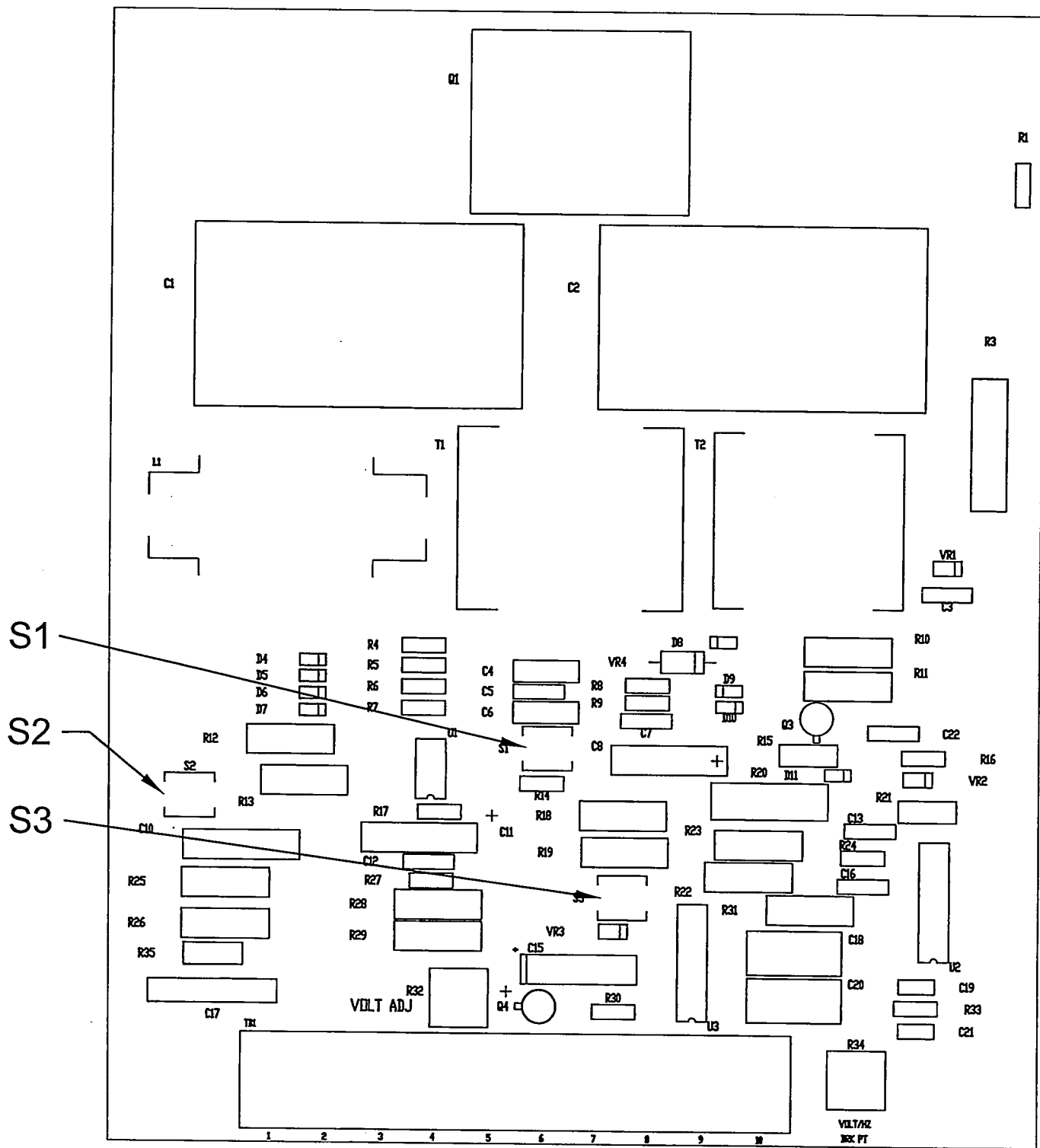


FIGURE 1: SWITCH LOCATIONS