Davidson Sales

MARATHON SE350 AUTOMATIC VOLTAGE REGULATOR BENCH TEST PROCEDURE



OPERTIONAL TEST PRODECURE

- 1. Connect the test setup as shown above. <u>Do not apply power</u>. Ensure that the light bulbs are; incandescent (not LED or Compact Fluorescent), connected in parallel, are 120 volts AC and are less than 100 watts. Apply the movable frequency jumper for 50 or 60 Hertz, based on the 240 Vac electrical source frequency.
- 2. Turn the regulator VOLT (voltage adjustment) and STAB (stability adjustment) potentiometer to maximum counter clockwise position (lowest setting, per the regulator's graphic markings around the potentiometers). This will be minimum voltage level for the voltage adjustment and the minimum stability for the stability adjustment.
- 3. Apply 240 volts AC to the regulator as shown above. Please ensure a circuit limiting device is used for this connection, if testing an SE250* or SE400* voltage regulator. The SE350 has a built-in 4 amp fuse. Both light bulbs should come on.
- 4. Slowly turn the VOLT potentiometer clockwise. Where the light bulbs go out, is the regulation point. Small adjustments above and below this level should case the light bulbs to go off and back on. Note the light bulbs will go on and off very quickly.
- 5. Turn the STAB potentiometer to the maximum clockwise stop. Now adjust the VOLT potentiometer above and below the regulation point. The light bulbs should go off and on, but the lights should go on and off much slower than before in step 4.

IF THE VOLTAGE REGULATOR FAILS TO PERFORM AS INDICATED ABOVE, IT IS DEFECTIVE AND REQUIRES REPLACEMENT.

*The SE250 & SE400 voltage regulators have been discontinued.

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