

# FORD PORTABLE GENERATORS

## Component Testing

# 2

### Component Testing

#### COMPONENT TESTING

This section guides you in checking your generator components for proper operation. Follow the safety precautions in front of this manual. Additional safety precautions are included with the tests; do not neglect these precautions.

#### VOLTAGE REGULATOR TEST

This test is designed to check regulator output. To test, you will need the following components:

- 1 Variable Transformer, 0-140 Volts (less .5 amp)
- 1 to 1 Isolation Transformer (less .5 amp)
- 1 120 Volt AC Plug (60 Hz)
- 1 Single Pole, Single Throw Switch
- 1 120 Volt, 100 Watt Lamp
- 1 2 Amp Fuse
- 1 AC Voltmeter
- Recommended #14 AWG Copper Wire (Minimum)



**WARNING: HIGH VOLTAGE!** Remember the function of a generator set is to produce electricity and whenever electrical energy is present, there is the potential danger of electrocution. Be sure that generator is properly grounded. Do not touch electrical equipment when standing in water or on wet ground or when your hands are wet.



**WARNING: HIGH VOLTAGE!** The heat sink of the voltage regulator contains high voltage. Do not touch when testing voltage regulator, or electrical shock will occur.

1. Connect components as shown in Figure 2-7.
2. Plug in variable transformer and AC plug.
3. Turn switch S1 on. Lamp should be on.
4. Turn variable transformer on. Slowly increase variable transformer, the lamp should go out at approximately 110 volts.
5. If the lamp does not go out or stays at a dull glow, this indicates a faulty regulator and should be replaced.



Figure 2-7. Voltage Regulator Test

# Sample Generator Repair Manual

**Bob Dobkin, Jim Williams**



## **Sample Generator Repair Manual:**

**Index of Technical Publications** United States. Department of the Army, 1977      **Monthly Catalog of United States Government Publications** ,1998-07      **Analog Circuit Design** Bob Dobkin, Jim Williams, 2011-09-26 Analog circuit and system design today is more essential than ever before With the growth of digital systems wireless communications complex industrial and automotive systems designers are challenged to develop sophisticated analog solutions This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges The book s in depth application examples provide insight into circuit design and application solutions that you can apply in today s demanding designs Covers the fundamentals of linear analog circuit and system design to guide engineers with their design challenges Based on the Application Notes of Linear Technology the foremost designer of high performance analog products readers will gain practical insights into design techniques and practice Broad range of topics including power management tutorials switching regulator design linear regulator design data conversion signal conditioning and high frequency RF design Contributors include the leading lights in analog design Robert Dobkin Jim Williams and Carl Nelson among others      **Monthly Catalogue, United States Public Documents** ,1990-07

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