

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

Patrick Vollmar



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

Calibration Specialist United States. Department of the Army, 1979 Organizational and Direct Support Maintenance Manual for Electronic Equipment Test Facility TADS/PNVS Augmentation Equipment, 13082808-39, 13231600, 13231650, and 13231800 ,1990 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1995 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Organizational and Direct Support Maintenance Manual ,1990 *Popular Mechanics* ,1948-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Bibliography of Scientific and Industrial Reports** ,1946 **Popular Mechanics** ,1947-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Popular Mechanics ,1948-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Technical Abstract Bulletin ,1981 **Electronic Systems Maintenance Handbook** Jerry C. Whitaker, 2017-12-19 The days of troubleshooting a piece of gear armed only with a scope voltmeter and a general idea of how the hardware works are gone forever As technology continues to drive equipment design forward

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