

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.

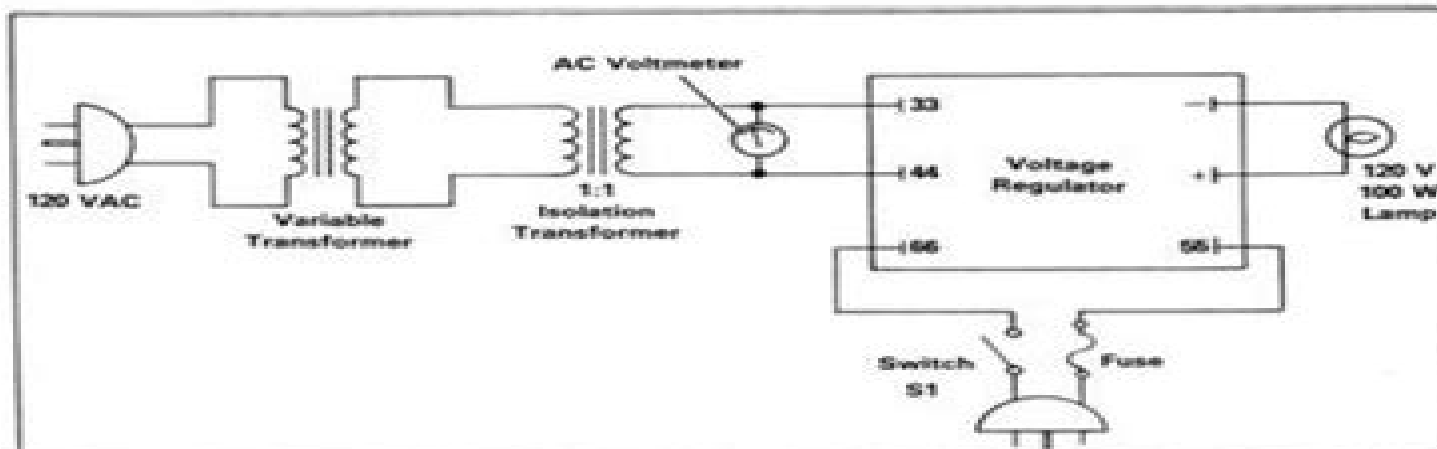


Figure 2-7. Voltage Regulator Test

Sample Generator Repair Manual

Annelies Wilder-Smith



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Table of Contents Sample Generator Repair Manual

1. Understanding the eBook Sample Generator Repair Manual
 - The Rise of Digital Reading Sample Generator Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Generator Repair Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sample Generator Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Generator Repair Manual
 - Personalized Recommendations
 - Sample Generator Repair Manual User Reviews and Ratings
 - Sample Generator Repair Manual and Bestseller Lists
5. Accessing Sample Generator Repair Manual Free and Paid eBooks
 - Sample Generator Repair Manual Public Domain eBooks
 - Sample Generator Repair Manual eBook Subscription Services
 - Sample Generator Repair Manual Budget-Friendly Options
6. Navigating Sample Generator Repair Manual eBook Formats

- ePub, PDF, MOBI, and More
- Sample Generator Repair Manual Compatibility with Devices
- Sample Generator Repair Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Generator Repair Manual
 - Highlighting and Note-Taking Sample Generator Repair Manual
 - Interactive Elements Sample Generator Repair Manual
- 8. Staying Engaged with Sample Generator Repair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Generator Repair Manual
- 9. Balancing eBooks and Physical Books Sample Generator Repair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Generator Repair Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Generator Repair Manual
 - Setting Reading Goals Sample Generator Repair Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Generator Repair Manual
 - Fact-Checking eBook Content of Sample Generator Repair Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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