

**AIRCRAFT WIRING TROUBLESHOOTING TRAINER, DEVICE 6E11****TRAINING CATEGORY:**

BASIC SCIENCE (Electricity)

**ORIGINATING AGENCY:**

CNET

**SECURITY CLASSIFICATION:**

Device 6E11 is unclassified.

**INTENDED USE:**

Device 6E11 is used to teach Aviation Electricians the basic troubleshooting procedures for troubleshooting an aircraft interior lighting system.

**FUNCTIONAL DESCRIPTION:**

Device 6E11 is a simplified aircraft interior lighting sub-system on which the student will demonstrate logical troubleshooting skills.

A student Instruction Sheet laminated in plastic will state what is expected from the student as he uses the trainer. It will also indicate

normal operating procedure and normal indications as you proceed with the following checks:

a. Determine if a malfunction exists by applying power and performing operational checks of the trainer system. Follow all applicable safety precautions and correctly identify any malfunction.

b. Isolate malfunction to a component or circuit, using logical troubleshooting procedures, schematic and appropriate test equipment. Determine if the discrepancy is in the component or associated circuit. Demonstrate adherence to safety procedures.

(1) Perform point to point continuity checks using a multimeter. Identify opens, shorts, and erroneous resistances.

(2) Measure voltage at power consuming devices using a voltmeter. Determine if correct voltages exist.

(3) Perform checks and tests of electrical control devices to determine conditions of these devices.

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(4) Perform checks and tests of circuit protective devices using multimeter to determine condition of these devices.

c. Identify maintenance action required to repair system by completing a maintenance action form.

d. Perform any other test the instructor sets forth.

The trainer consists of the following items:

- (1) Trainer Case (Aluminum)
- (2) Electrical Chassis
- (3) Trouble Switch Panel
- (4) Electrical Schematic Sheet
- (5) Electrical Wiring Diagram Sheet
- (6) Instructor's Trouble Sheet
- (7) Student Instruction Sheet
- (8) Power Cable
- (9) Spare Parts Kit

**PHYSICAL INFORMATION:**

Trainer size will not exceed 24" x 17" x 5-1/2" in its storage mode.

**ENVIRONMENTAL CHARACTERISTICS:**

Ambient temperature range from -13° F to +125° F.

Relative humidity ranging up to 95%.

**INSTALLATION AREA:**

Classroom

**POWER REQUIREMENTS:**

The trainer will include a 28 VDC (Direct Current) power supply, operating from 115 Volt, 60 Hz power source.

**CONTRACT IDENTIFICATION:**

Manufactured by ITI Electronics, Inc., Clifton, NJ under NAVTRASYSCEN Contract No. N61339-76-C-0020.

**LOCAL STOCK NUMBER:**

6910-LL-C00-4330