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GE Industrial Systems

Functional Testing Specification

Renewal Services
Louisville, KY

LOU-GED-0827D854

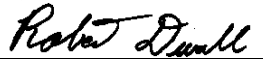
Test Procedure for a progressive draw assembly

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Functional test procedure for a progressive draw assembly.

1. **SCOPE**

1.1 This is a functional testing procedure for a progressive draw assembly.

2. **STANDARDS OF QUALITY**

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. **APPLICABLE DOCUMENTS**

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.

3.1.1 **148B9809 (Elem. And Conn. Diagram)**

3.1.2 **193A9373 (Original factory TI)**

4. **ENGINEERING REQUIREMENTS**

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to the local documented procedures for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.2.1.1 Wires broken or cracked

4.2.1.2 Terminal strips / connectors broken or cracked

4.2.1.3 Loose wires

4.2.1.4 Components visually damaged

4.2.1.5 Capacitors leaking

4.2.1.6 Solder joints damaged or cold

4.2.1.7 Circuit board burned or de-laminated

4.2.1.8 Printed wire runs burned or damaged

5. **EQUIPMENT REQUIRED**

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

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Qty	Reference #	Description
1		Fluke 85 DMM (or Equivalent)
1		115 VAC Line Cord

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6. TESTING PROCESS

6.1 Setup

6.1.1

6.2 Testing Procedure

6.2.1 Check to see that knob, couplings, and Helipot turn free without binding.

6.2.2 Using the DMM, check the continuity and overall resistance of the Helipot (refer to the BOM for proper resistance value).

6.2.3 Verify wiring against elementary diagram. (see section 7)

6.2.4 Verify counter dial ZERO setting against Helipot ZERO resistance by adjusting the dial to zero and measuring the resistance at TB points 5 and 6.

6.2.5 Connect 115VAC to TB points 3 and 7.

6.2.6 With DMM connected to TB points 5 and 6, press the INCREASE pushbutton (1PB).

6.2.6.1 Verify that the motor rotates clockwise at about 2 RPM.

6.2.6.2 Verify that the Helipot resistance increases linearly until maximum resistance is reached.

6.2.6.3 Verify that the clutch dis-engages the motor from the shaft when maximum resistance is reached.

6.2.7 Press the DECREASE pushbutton and verify that the motor and counter dial rotate counter clockwise.

6.2.8 Manually adjust the counter dial back to zero verifying that all numbers are present and legible while turning.

6.3 ***TEST COMPLETE***

7. NOTES

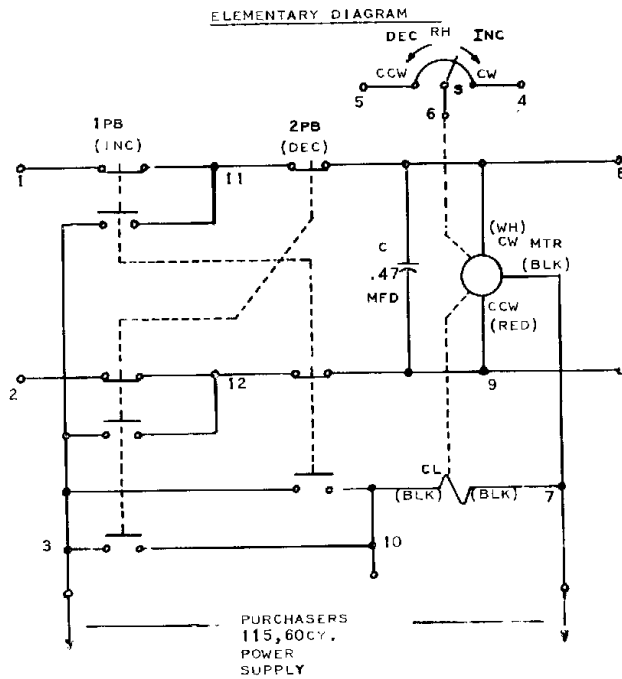


Figure 1 – 0827D854G0001