# **Component Testing Guide**

# 740242 Contactor

## Where Used:

320, 26/32B Automatic Scrubbers and 2600 Battery Burnisher

## Purpose:

To allow a small current to control a larger current.

#### **How a Solenoid Operates:**

When system voltage, i.e.: 12, 24, or 36 volts is applied to the small terminals 1 & 2, an electromagnetic field is created. When the electromagnetic field is created, a metal disc is pushed or pulled up to make contact (a bridge) between terminals C & D. Current will then flow from C & D to turn on an electrical device, i.e.: a brush or vacuum motor. When the power to terminals 1 & 2 is removed, the magnetic field will collapse and the metal disc will open or pull away from terminals C & D. Current will then cease to flow to the electrical device the contactor is controlling, because the "bridge is no longer present".

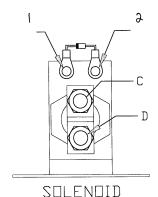
#### To test the solenoid:

You will need the following tools: 1). Jumper Wires, 2). A volt/OHM Meter, 3). Continuity Tester.

- 1). Remove all wires from the solenoid, noting their location. Connect your continuity tester or OHM meter across terminals C & D. No continuity should be present. If continuity is shown with no power to terminals 1 & 2, the solenoid is defective and must be replaced. This would cause the electrical component that the solenoid was connected to, to run even with the switch in the off position.
- 2). With the OHM meter or continuity tester connected across terminals C & D, apply system voltage via your test leads to the small terminals 1 & 2. You should now read continuity across terminals C & D, if no continuity is present, the contactor is defective and must be replaced. This would cause a motor to not turn on when the switch is activated.

#### Diagnosis Summary:

- 1). If system voltage is present at terminals 1 & 2 you should have continuity between terminals C & D.
- 2). Without system voltage at terminals 1 & 2 you should not have continuity between terminals C & D.



CAUTION: These tests should only be performed by a qualified technician. Working with electricity can be dangerous. When using jumper wires to help diagnosis an electrical component, care must be exercised to prevent a short circuit from occurring. Do not allow the two test leads (jumpers) to touch or personal injury or damage to the equipment will result.