INTRODUCTION

The model EVDC100 is a low in cost, OEM approved, Mobile A/C Compressor Electronic Control Valve Tester. The device tests electronic control valves in variable displacement mobile A/C compressors. It is placed in-line between the control valve and the wiring harness connector, so valve issues can be diagnosed before condemning a compressor.

The electronic control valve regulates internal compressor pressure to change the compressor displacement. The tester regulates the input signal to the valve to verify the valve’s operation. The device assists a technician in diagnosing mobile A/C problems with external control valve compressors. By manually controlling the operation and function of the valve, it lowers repair costs and service time, and eliminates a compressor misdiagnosis and an unnecessary compressor replacement.

FEATURES

- Eliminates Compressor Misdiagnosis
- Quick Diagnosis Lowers Repair Costs
- Verifies Valve Function
- Includes Connect Adapter for both Old and Newer Compressors
- Heavy duty battery clips and cable
- Removable Cable Assemblies for easy replacement
- Long cable lengths for easier access to valve and battery
- Reverse Battery Connection Protection
- Adjustable tester output
- Powers from vehicle battery, no need for batteries
- 2- year warranty including
- Made in USA
EVDC TESTER DESCRIPTION

CONNECT BATTERY CLIPS TO BATTERY

VALVE CONNECTION CABLE CONNECTS TO COMPRESSOR VALVE

EVDC102 CONNECTOR ADAPTER  EVDC101 VALVE HARNESS MODULE  ECV100 TESTER
Operating Instructions

1. Connect a/c manifold gauges or a/c recover/charge machine to the high and low pressure side of the A/C system.

2. Disconnect the control valve harness from the compressor control valve.

3. Connect the EVDC 101 Valve Harness Module to the compressor control valve harness.*

4. Connect the EVDC100 Tester valve connection cable to the compressor control valve.

5. Attach the EVDC100 Tester to a 12V battery source.

6. Connect red battery clip to the positive battery post terminal.

7. Connect the black battery clip to the negative battery post terminal.

8. Start the engine of the vehicle and turn the A/C system to MAX A/C and make sure that the compressor clutch on or is engaged.

9. Rotate control knob on the EVDC100 Tester to the ON position. The red power LED will turn on. See figure 1 below.

10. To activate the control valve on the compressor rotate the control knob slowly clockwise from MIN towards MAX to activate and observe pressures on the high and low sides of the A/C system. See Figure 2 below.

**WARNING:** DUE TO HEATING, DO NOT LEAVE THE VALVE HARNESS MODULE CONNECTED FOR EXTENDED PERIODS (NO MORE THAN 30 MINUTES) OR LEAVE UNATTENDED.
11. If no change in pressure occurs on the manifold gauges, the valve or the compressor is defective.

12. If there are changes observed and the suction low side pressure goes down or the high side pressure goes up, the compressor is working properly. Continue further diagnosing the A/C system upstream from the compressor is required.

13. Disconnect the EVDC100 tester from the compressor control valve and the valve harness module from the harness. Reconnect the valve harness to the compressor control valve, and make any necessary repairs.
Using the EVDC Connector Adapter

For the current compressor control valve connector style:
Connect the EVDC100 valve connection cable to the compressor control valve.

Connect the connector adapter EVDC102 to the EVDC101 Valve Harness Module and then connect to the control valve harness as shown below:

For the new compressor control valve connector style:
Connect the EVDC102 connection adapter to the EVDC100 valve connection cable and then connect to the compressor control valve as shown below:

Connect the EVDC101 Valve Harness Module (without the adapter EVDC102) to the Valve Harness as shown below:
## Replacement Parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>EVDC101 Valve Harness Module</td>
<td>AC-EVDC101</td>
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<tr>
<td>EVDC102 Connector Adapter</td>
<td>AC-EVDC102</td>
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<tr>
<td>EVDC 103 Valve Connector Cable</td>
<td>AC-EVDC103</td>
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<tr>
<td>EVDC104 Battery Cable Positive</td>
<td>AC-EVDC104</td>
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<tr>
<td>EVDC105 Battery Cable Negative</td>
<td>AC-EVDC105</td>
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<tr>
<td>Carrying Case</td>
<td>AC-CAS001</td>
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<tr>
<td>Instruction Manual</td>
<td>AC-EVDCMAN</td>
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## Product Specifications

<table>
<thead>
<tr>
<th>Model #</th>
<th>EVDC100</th>
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<tbody>
<tr>
<td>Name</td>
<td>AC Compressor Electronic Control Valve Tester</td>
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<tr>
<td>Battery Cable Length</td>
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<tr>
<td>Valve Cable Length</td>
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<td>Power Requirement</td>
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<td>Removable Cable Connector Type</td>
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<tr>
<td>Warranty</td>
<td>2 Years</td>
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<tr>
<td>Weight, lbs</td>
<td>1.5 lbs</td>
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</table>
RETURN FOR REPAIR POLICY

Every effort has been made to provide reliable, superior quality products. However, in the event your instrument requires repair, forward unit to Service Center freight prepaid to the address below with return address, phone number and/or email address.

TECHNO TOOLS CORP.
SERVICE CENTER
2651 W 81st Street
Hialeah, FL 33016

WARRANTY POLICY

The EVDC100 A/C Compressor Electronic Control Valve Tester is warranted to be free of defects in materials and workmanship for a period of two years from the date of purchase. This warranty applies to all repairable instruments that have not been tampered with or damaged through improper use including unauthorized opening of the unit. Please ship warranty units that require repair freight prepaid to Service Center along with proof of purchase, return address, phone number and/or email address.