

Electronic Expansion Valve Tester and Driver

Prominent Features

- Automatically checks all 4-coils for correct resistance
- Open or Close the valve in drive mode
- High Efficiency LED driver
- Includes an adapter compatible with LG 5-wire or 6-wire LGK-09 style valves
- Replaceable 9V battery
- Optional adapter for other 12-Volt EEVs



Warranty

- 1-year limited warranty

Specifications		
Battery Type		9V or rechargeable 9V Lithium
Accepted Coil Resistance		30 Ohm - 300 Ohm
Dimensions (in)	Height	1"
	Width	3.2"
	Depth	5.5"
Battery Life (Test Mode)		Up to 35 Hrs
Battery Life (Drive Mode)		Up to 5 Hrs

NOTE – Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
NEVER CONNECT THIS TOOL TO LIVE EQUIPMENT

Operating Instructions

The VT1 EEV tool is designed to test and drive common 4-coil expansion valves. It uses a specially designed circuit to analyze coil resistance values between 30 Ohms and 300 Ohms. The drive circuit pulses each coil in sequence to open or close the valve.

1. Valve Testing

To test a 12-V Electronic Expansion Valve such as LGK-09, connect the valve to the valve-adapter plug and insert it into the end-plate of VT1.

Switch the mode selector to TEST and observe the 4 LED lights on the 2A, 2B, 1B, 1A for activity. Each coil is tested individually. If its resistance is within the acceptable range, the corresponding LED will turn on (Green).

Notes: Even with a partially drained 9V battery, the test LED should still perform unless the battery voltage has reduced below 6Volts and/or the supply current drops below 10mA.

2. Driving the Electronic Expansion Valve Motor

To drive a valve open or closed, select the drive direction using the direction switch and set the mode selector to Drive. The drive mechanism produces approximately 210 pulses per second to open or close the valve. It takes approximately 20 seconds to fully open or close the LGK-09 valve.

It takes a considerable amount of power from the 9Volt batter to drive the valve motor. Therefore a high-current and high-capacity 9V battery is recommended. A rechargeable Lithium Ion 9V may also be an option for use with this tool. Having some spare 9V batteries on hand is recommended.

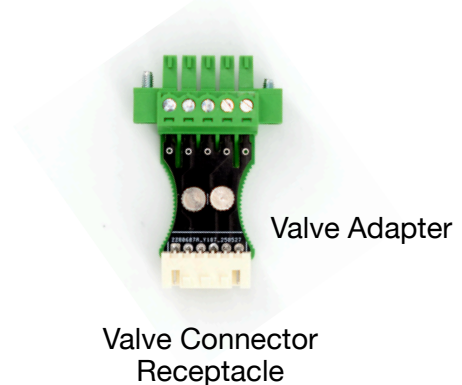
VT1 EEV Tool



Direction Switch



Mode Selector

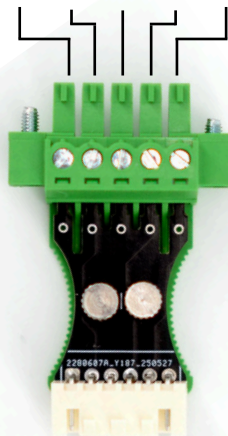


Valve Adapter

Valve Connector
Receptacle



M1A M1B M2A M2B 12V



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.