

## TEST ECM MOTORS & CIRCUIT BOARDS IN LINE IN REAL TIME



### ELIMINATE MISDIAGNOSIS

Model: VZ-7



A top ECM manufacture reports 41% of the motors returned have "no problem found".

*"The VZ7 is a must have in your service truck!"*

-Customer Review



#### DIAGNOSE

Accurately diagnose exactly which component has failed in a Variable Speed (ECM) System



#### SET-UP

Assist in system setup by reporting CFM & RPM as room vents and other controls are adjusted



#### ADJUST

Easily adjust all available settings and options on an ECM to obtain maximum customer comfort



**By Techs, For Techs**



Learn More & View Video Tutorials

**VariableSpeedZebra™**  
.com



# Variable Speed Zebra™

by Zebra Instruments™

One-Year Limited Warranty



- 1 Visually Monitor Signals from Circuit Board
- 2 Direct Readout of Control Voltage in the Motor
- 3 One Switch Motor Malfunction Analysis
- 4 Housed in a Rugged Latched Case
- 5 Detailed Test Instructions



The Variable Speed Zebra™ is a microprocessor-controlled diagnostic tool that performs sophisticated testing with only 4 switches.



## How it Works

- Connects between the air handler's circuit boards and the motor. It operates in-line with the system, in real time, testing both major sections (motor and control boards) simultaneously.
- Operates using four simple switches, but inside is a microprocessor controller that takes all the guesswork out of ECM diagnosis.



## Functions

- Monitor the signals going out of the circuit boards, displays them and then either (a) pass them to the motor, or (b) interrupt the signals and control all the functions of the motor directly.
- "Winding Test" circuit analyzes the motor for opens, shorts; insulation problems, magnet strength, and frame shorts advising you if the motor or electronic module needs replaced.



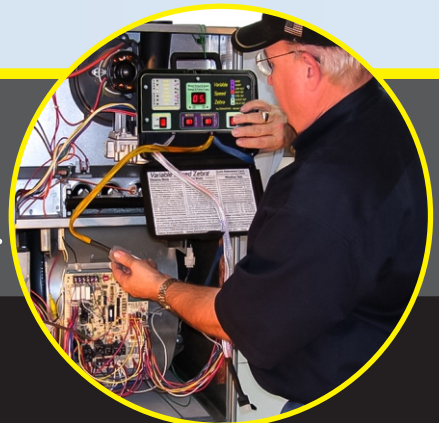
## Features

- Display the motor's CFM airflow, the motor's RPM, and the control voltages being sent to the motor's electronics module.
- The four system taps are outputted and displayed graphically with 3-color LED's to show condition of the delay, adjust, heating, and cooling profiles.



## Learn More

Find tutorials, product info, instructions, and more online at [VariableSpeedZebra.com](http://VariableSpeedZebra.com) (or by following the QR Code).



Zebra Instruments™  
[ZebraInstruments.com](http://ZebraInstruments.com)



Visit us on YouTube  
@ZebraInstruments