Zebra HVAC

Motor Monitoring, Protection, and Control

2019

Product Catalog

Diagnostic Tools

UZ1

Best Seller

The Best Weapon in Your Arsenal Against ECM System Problems

The *Universal Zebra* or *UZ-1*, is able to test run a motor in one or more (up to six) speeds. It has seven LEDs and three 3-way switches. Housed in a rugged case that latches, it is shipped with our most popular adapter, which fits the very common GE/Regal-Beloit series 2.0 and 2.3 motors. Additional adapters (see page 2) make the *UZ-1* a truly universal tool.

The *UZ-1* comes with a *one year limited warranty.*

• **Easy to Use:**

Three 3-position switches exercise ECM motors in as many as six different speeds. The number of available test speeds range from 1 to 6, dependent on the motor model.

• **Versatile:**

Plug-in Adapters mate the tool to virtually any ECM motor used in HVAC/R. (Popular Adapter "A" is included.) A magnetic overlay quick-reference card with each adapter explains what each switch position and LED means with that motor series.

• **Built to Last:**

The Universal Zebra is housed in a latched, rugged plastic case that protects it and its leads. We are committed to making affordable adapters for virtually every ECM motor used in HVAC/R industry.
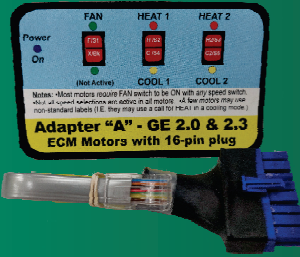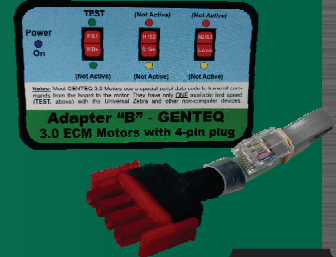
UZ1

Award Winning Product

1

UZ-1 Accessories

UZ-1 Adapters

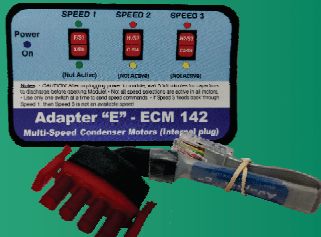Adapters couple the UZ-1 to different motors. Six different adapters are currently available.

UZHMA
Fits GE, Regal-Beloit, GENTEQ 1.6, 2.0 & 2.3 ECM motors
16-pin plug

Best Seller

UZHMB
Fits GENTEQ 3.0 ECM motors
4-pin plug

Best Seller

UZHMC
Fits GE, Regal-Beloit, GENTEQ X-motors, X13, Evergreen AH (not IM) ECM motors
5-pin + 4-pin plugs

UZHME
Fits GE, Regal-Beloit, GENTEQ ECM 142 multi-speed condenser motors
Internal 4-pin plug

UZHMF
Fits Evergreen IM series ECM motors
5-pin + 4-pin plugs

No Photo Available

UZHMG
Fits Azure ECM motors
3-pin plugs

UZ-1 Power Harness

Motor power plugs with harnesses are necessary when you want to test a motor out of its air handler/furnace environment. Most ECM motors have special power input plugs, so bench testing can be challenging without access to these plugs. A wide variety is currently available.

UZPH1
Fits GE, Regal-Beloit, GENTEQ 2.0, 2.3, 2.5 & 3.0 ECM motors & many others

UZPH2
Fits GE, Regal-Beloit, GENTEQ X-motors, X13, Evergreen AH (not IM) ECM motors

UZPH3
Fits GE, Regal-Beloit, GENTEQ ECM 142 multi-speed condensers

UZPH4
Fits Evergreen IM series ECM motors

UZEXT
36" extension or replacement harness for the UZ-1

UZACC
Rugged case to house your UZ-1 and all your accessories

The UZ-ALL

All in one!

UZALL

The *UZ-All* comes with a *UZ-1* and all of the current accessories.
It's the same great Zebra quality, all in one convenient package.
The package includes:

Part #	Description
UZ-1	Universal Zebra-Basic ECM Troubleshooter
UZHMA	Fits GE, Regal-Beloit, GENTEQ 1.6, 2.0 & 2.3 ECM motors
UZHMB	Fits GENTEQ 3.0 ECM motors
UZHMC	Fits GE, Regal-Beloit, GENTEQ X-motors, X13, Evergreen AH (not IM)
UZHME	Fits GE, Regal-Beloit, GENTEQ ECM 142 multi-speed condenserECM
UZHMF	Fits Evergreen IM series ECM motors
UZHMG	Fits Azure ECM motors
UZPH1	Fits GE, Regal-Beloit, GENTEQ 2.0, 2.3, 2.5 & 3.0 ECM motors
UZPH2	Fits GE, Regal-Beloit, GENTEQ X-motors, X13, Evergreen AH (not IM)
UZPH3	Fits GE, Regal-Beloit, GENTEQ ECM 142 multi-speed condenser
UZPH4	Fits Evergreen IM series ECM motors
UZEXT	36" extension or replacement harness for the UZ-1
UZACC	Rugged case to house your UZ-1 and all your accessories all together

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SideWinder SW-5

The *SideWinder (SW-5)* is a winding section analyzer tool.
It's a great companion tool for the *Universal Zebra* (see page 1).

Features:

- Fits most ECM winding section connectors with inexpensive adapters available to fit the rest.
- Uses the motor's back-EMF generation to display each of the motor's 3-phase conditions.
- An unlit indicator LED shows faults (shorts or opens) in each phase of the winding section.
- A second test indicates any shorts between the motor frame and any winding phase.
- No external power source needed; 9-volt battery included.
- *One Year Limited Warranty.*

SW5

Many unit manufacturers are starting to deny warranty claims for misdiagnosed ECM motor problems. After years of giving technicians grace from sending back complete motors, manufacturers now realize that tools exist which can determine which part of a motor requires replacement.

Approximately 30 seconds is needed to administer the *SideWinder's* two main tests, which may save you money, hours of work, and possibly an ECM motor claim denial.

SW5

SW-5 Adapters

No Photo Available

ZSWAA
Designed to connect the Sidewinder to Azure ECM Motors

ZSWAE
Designed to connect the Sidewinder to Emerson ECM Motors.

Variable Speed Zebra VZ-7

The *Variable Speed Zebra* is an in-line diagnostic tool: connected between the unit's control board and the ECM motor, it provides real-time information about:

- Commands being sent by the control board to the motor.
- Motor feedback, including RPM and CFM being pushed.
- Control voltage levels.
- Multi-color tap display LEDs.
- The *VZ-7* also allows manual motor control by sending commands directly to the motor.

VZ7

The *VZ-7* uses a simple-to-operate microprocessor controlled tests to:

- Accurately diagnose exactly which component has failed in a variable speed system that isn't working correctly.
- Assist in system setup by reporting motor RPM and CFM airflow as room vents and controls are adjusted.
- Allows easy adjustments of all available settings and options on ECM (Variable Speed) blower motors to obtain maximum comfort for your customer.
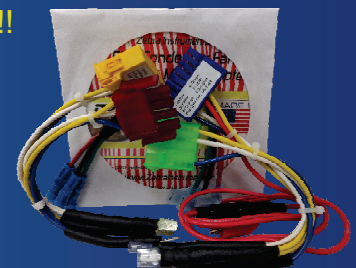- *One Year Limited Warranty.*

VZ7

Award Winning Product

VZ-7 Adapters

Instructional DVD Included!!

VZH03
Provides two-way communication between the VZ-7 and X-13 (and other X-Motor types) as well as some Evergreen motors

VZH06
Engineered to provide two-way communication for the VZ-7 when used with condensing units that have the ECM 142 series motors

Zebra-Stat ZS-2

ZebraStat (ZS-2) is a fully electronic and easy-to-use diagnostic tool for every HVAC and refrigeration system techician.

- Inside its durable protective case you will find a tool that quickly diagnoses low-voltage control problems in system wiring, control boards, thermostats, and associated components.
- Bright LEDs positively indicate OK/Not-OK status.
- Easily trouble shoot single and multi-stage, residential, and commercial systems using any or all of *ZebraStat's* five operating modes.

ZS2

Features:

- Over/Under-Voltage indicators quickly spot trouble areas. Its auto-reseting circuit protection makes finding problems on "computer board" equipment less risky when shorts are present. Also, the entire ZebraStat is protected with the same auto-resetting circuit protection.
- A quick instruction card is printed on the inside cover and a full manual in English and Spanish.
- Magnetic strip on the back and a slide up hook for ease of use.
- *One Year Limited warranty*

ZS2

Short Finder Tool

- Used to quickly locate shorts in 24VAC circuits while protecting controls from damage.
- No more walking around with a fist full of fuses or risk of burning up your equipment using the wrong fuse. With the short finder's push-to-reset 3 amp breaker and bottom mounted LED indicator, this tool saves you time and money.
- The short finder tool is designed to plug directly into a fuse holder or attach with the supplied alligator clips.

ZSPRT

Safety Power Adapters

Zebra 'Dapters

A Significantly Safer way to obtain 120V power from or in:

• Condensing Units • Attics & HVAC Closets • New Construction Sites •

Helps save vacuum pumps, charging scales, drop lights, and valuable equipment from destruction due to accidental connection to overvoltage/overcurrent.

Zebra'Dapter
Fused "Cheater" Power Cord

A significantly _SAFER_ way to use 120 Volt power to test:
• Motors • Blowers • Other Components • Systems •

Lighted End Confirms Power
• Plug Not Lit: *No Power / Mis-Wired*
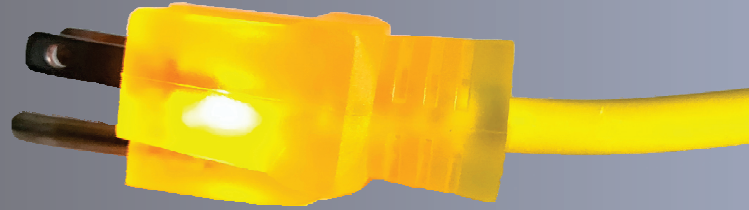• Plug Lit: *Caution • Live 120 V*

ZD001

ZD001

Includes a 72" fused "cheater" cord set with *male* plug and three alligator clips.

- Other cords of this type are often called "widow makers" because they lack any safety devices. The *ZD001* version has an in-line fuse (3 provided) that reduces the risk of arcing when connecting or accidentally shorting a lead.
- Glow-lit plug provides definite proof of power.
- Insulated heavy duty clips on a safety yellow cord.

ZD002   Best Seller

Includes a 24" fused cord set with *female* plug and three alligator clips.

- The *ZD002's* socket glows gently when connected to 120V and brightly if it's ever accidentally connected to 240V.
- The in-line fuse also acts as a last line of defense for vacuum pumps and other valuable tools.
- Three different fuses are included for different applications.

Zebra'Dapter
Fused Power Tap Cordset

A significantly _SAFER_ way to obtain 120 Volt power from or in:
• Condensing Units • Attics & HVAC Closets • New Construction Sites •

Lighted End Shows Power Level
• End Not Lit: *No Power / Mis-Wired*
• Normal Light: *120 Volt Power*
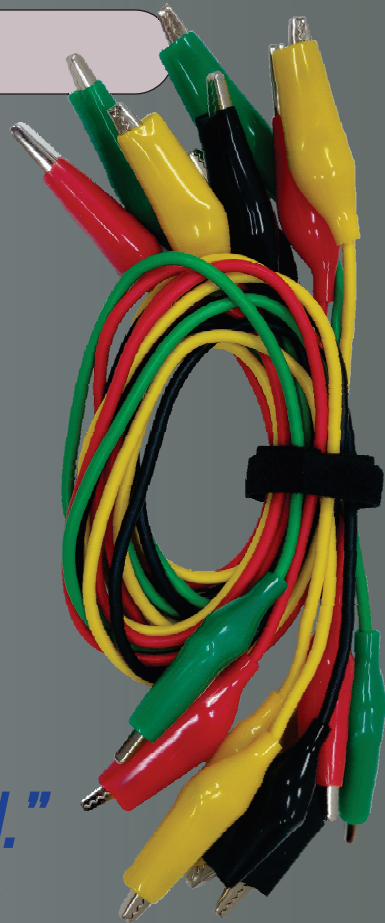• Brilliant Light: *Danger! - Overvoltage!*

ZD002

Zebra-Gators

Zebra-Gators are alligator jumper wires designed for the HVAC/R technician. Unlike competitive products, *Zebra-Gators* don't pull or fall off because our wires are soldered, not just crimped. They carry the current they are designed for, because they are made from wiring that is the full gauge size listed. Each set comes with a velcro wrap that keeps your *Zebra-Gators* organized; either in the tool box or hanging in your vehicle.

"...soldered, not just crimped."

Zebra-Gators™
- Small Size
- 5 Colors - 10 Wires
- 36" Length
- 22 Gauge (6A) Wire
- Velcro Wrap
- Soldered, Not Just Crimped

Zebra-Gators™
- Medium Size
- 4 Colors - 8 Wires
- 24" Length
- 18 Gauge (15A) Wire
- Velcro Wrap
- Soldered, Not Just Crimped

Zebra-Gators
Alligator Clip Jumper Wire Set
- Large Size
- 24" Length
- 4 Colors - 4 Wires
- 14 Gauge (30A) Wire
- Velcro Tie/Hang Wrap
- Soldered, Not just Crimped

Packaged in the U.S.A.
Wires assembled in China.
Part # ZG004

ZG002 *Best Seller*	**ZG003** *Best Seller*	**ZG004**
Small	**Medium**	**Large**
22-Gauge	18-Gauge	14-Gauge
10 Wires	8 Wires	4 Wires
5 Colors	Assorted Colors	4 Colors
36"	24"	24"

Plug-In Transient, Surge, Lightning, and Spike Protection
Motor Protection for ECM 2.0 and newer, X-I3, & Evergreen

• Saves Equipment -

ECM protectors plug into existing motor connectors and plugs. They help to protect these valuable motors from voltage spikes, surges, and transients that often damage them.

• FAST Installation -

The *VZPRO, X13PR* and the NEW *AZPRO* simply plug in between the motor connector and the existing wiring harness. A ground strap with a ring terminal is provided for additional protection.

• Protect Your Investment -

The most common cause of Variable Speed (ECM) motor failure is damage to the electronics module as a result of poorly conditioned incoming power.

VZPRO

X13PR

No Photo Available

AZPRO

Best Seller

Best Seller

VZPRO

X13PR

AZPRO

Surge & Spike Protection Device
Circuit Board • Condensing Unit • Heat Pump

Best Seller

ZAP-PRO

The *ZAP-PRO* provides plug-in protection from voltage surges and spikes that can devastate modern circuit boards and controls in HVAC condensing units and furnaces/air handlers. Simply plug the *ZAP-PRO* onto the incoming 1/4" power terminals of the unit you want to protect:

• The line side of the contactor in a condensing unit, or
• The neutral and line terminals on a circuit board in a furnace or air handler.

Plug-In Transient, Surge, Lightning, and
Spike Protection for 24V Control Systems

The PRO24 provides 24V control systems plug-in protection from voltage spikes that can cause costly damage to control boards.

The PRO24 simply plugs in with male and female spade connectors, between the 24V system transformer's output leads and the control board you want to protect.

Fuses, Breakers, Repair Kits

Fuses

- High Quality
- Fast Acting
- Popular Sizes

Best Seller

ZFP03
25 Pack of 3A
Plastic Fuses

Includes:
5 X 3A
4 X 5A
4 x 10A
4 x 15A
4 x 20A
4 x 30A

ZFPAS
25 Pack Assorted
Plastic Fuses

Part #	Fuse Description
ZFP03	25 Pack 3A, Plastic
ZFP05	25 Pack 3A, Plastic
ZFPAS	25 Pack Assorted Plastic
ZFG03	25 Pack 3A, Glass
ZFG05	25 pack 5A, Glass
ZFGMQ	2x GMQ 300v 3.2A with Knobs

Fuse Holders

Use fuse holders in circuits where protection is needed. Fuse holder kits utilize standard size glass or plastic fuses. Each package includes 4 fuse holders, popular size fuses, and crimp on connectors.

Best Seller

ZFH01
4 Pack of 15A
Medium Duty
Plastic Fuse Holders

ZFH02
4 Pack of 15-A
Medium Duty
Glass Fuse Holders

Z▲Breakers

Push-to-reset circuit breakers for voltages from 24 to 125 VAC. White button clearly pops out indicating trip. Includes 24" wire harness, snap-in bushing, breaker, and consumer sticker.

Best Seller
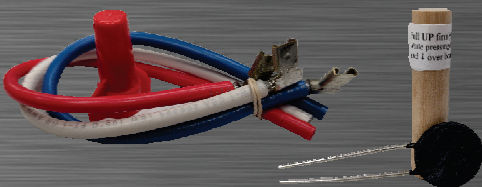
ZK003
3 Amp
Circuit Breaker

Best Seller

ZK005
5 Amp
Circuit Breaker

Repair Kits

Comprehensive kits designed with the HVAC Tech in mind.

VZREP
Motor Module
Repair Kit, Comes
with full instructions

ZCTRK
Compressor Terminal Kit
Soldered and Crimped
10 Gauge Wire

Zebra HVAC

- ▲ *Diagnostic Tools and Accessories*
- ▲ *ECM Devices and Surge Protection*
- ▲ *Alligator Lead Sets*
- ▲ *Safety Power Adapters*
- ▲ *Fuses and Circuit Protection*

Zebra HVAC products are sold exclusively to wholesalers. Visit your local distributor to inquire about our products.

Toll Free: 1-888-HI Zebra (1-888-449-3272)
Voice: 512-869-7000 (7:00 - 4:00pm C.D.T)
Fax: 512-864-1725   Attn: Sales
Email: Sales@ZebraHVAC.com
Address: PO Box 1055, Salado, TX 76571

ZebraHVAC.com   OrderZebra.com
(Call or Email for Your Password)

Our team takes great pride in producing high quality HVAC/R tools and accessories with the technician in mind.