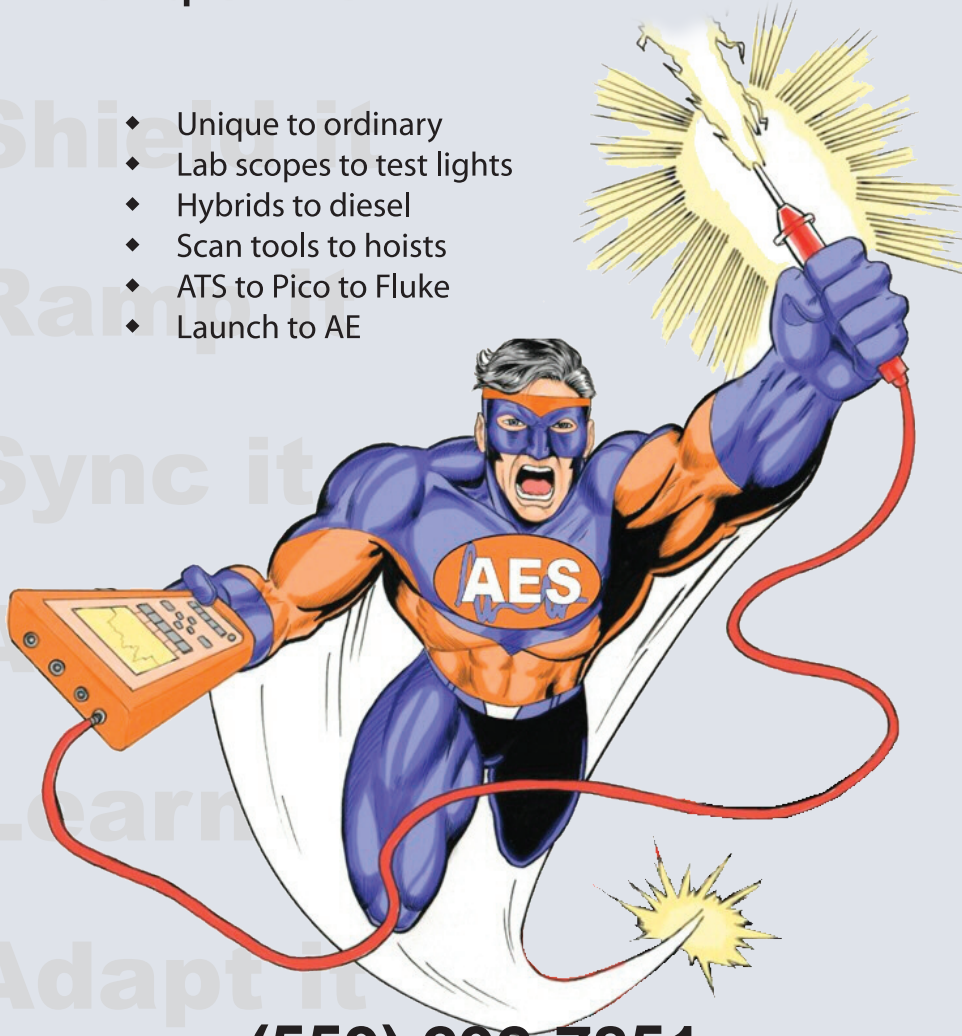




Diagnostic Solutions for Automotive Technicians Shop Owners and Educators

- ◆ Unique to ordinary
- ◆ Lab scopes to test lights
- ◆ Hybrids to diesel
- ◆ Scan tools to hoists
- ◆ ATS to Pico to Fluke
- ◆ Launch to AE



(559) 292-7851

www.aeswave.com



Lab Scopes Test Leads Probes and Adapters Training Material Scanners Software



About AESWave.com

AES Wave Fact Sheet:

- AES Wave specializes in automotive diagnostic equipment sales and support.
- AES Wave is a national and global supplier of automotive diagnostic equipment.
- AES Wave was instrumental in the development and application of automotive lab scopes for automotive repair.
- AES Wave was instrumental in the development of the first automotive professional on-line forum.
- AES Wave is one of the original sponsors of the iATN (www.iATN.net).

AES Wave Manufacturing:

- AES Wave manufacture's our own products. Many AES products have won industry awards including 4 Motor Top 20.
- AES Wave is or has supplied manufacturing services for most major automotive tool equipment companies including Snap-on, OTC, UEI, Vetronix, Bosch, Pico and ATS.

AES Wave and our partners provide an array of manufacturing capabilities and specialties:

PC Board design - Plastic injection molding and mold design - Wire and cable design - Enclosure milling

AES Wave manufacturing and you:

Do you have a product idea? Bring it down and we can see if we can make it for you!

AES Wave Contact & Order Desk:

Order Desk and Tech Support:

Local: (559) 292-7851
Toll Free: (877) 351-9573
Fax: (559) 292-3533

Mail Orders:

AES Wave
3849 N. Fine Ave.
Fresno, CA 93727

Internet Orders:

Main web site: www.AESWave.com
Bosch products web site: www.YourBosch.com

Order & Help Desk: (559) 292-7851



AES Services

Demo/Rental Program:

Want to try before you buy? Maybe you just need that tool once in a while and don't want to buy. Give us a call and setup to rent a tool. Or, make an appointment to come by and demo a tool in our parking lot.

PC Setup & Networking:

Trouble getting your PC to cooperate? Let our experts, with both automotive and PC experience, solve your PC problems.

- Tool to PC connection
- Software Setups and registrations
- PC to Internet
- Networking

Via Your Parts House:

AES fully supports all of our local parts houses and those across the country. All of the AES products can be purchased via your parts house salesman. Just let them know what you are interested in and they can contact us. You will still receive our professional support services just as if you purchased direct from AES!

AES and Seminars:

On occasion, AES will bring national level trainers to Fresno. Our goal is to focus on topics that will compliment the training that already takes place here in the Valley.

If you have a training topic request, please let us know.

Your Support and Advocate:

Our philosophy is that we don't "sell" tools. We provide tools that best fit your need at the price you seek and do so, with intelligent support.

We won't help you perform repairs but we will help you setup and understand your test equipment so you can get the most from your purchase.

For Educators:

Ask about our **Keep it Simple with one P.O.** program!



AES On the WEB

www.AESWave.com

Shop and learn 24/7 - the anything you need resource. Scan tools, re-programmers, lab scopes, test leads, probes, adapters, books, videos, and much more. If you don't see it in the catalog or on the web site.....just call.



www.YourBosch.com

Everything Bosch - Tools, software updates, accessories, training videos, manuals, FAQs, and forums. A fully authorized Bosch reseller and resource center.



www.theLearningPathway.com/blog.com

What would happen if we put as much energy and enthusiasm into learning how to learn as we do our hobbies? What does the world look like through the eyes of a mechanic? To find out go to www.thelearningpathway.com/blog.

www.AnnoWave.com

Image annotation and layout – that's what the Anno Wave is about. To download a fully functional demo and learn more, visit www.annowave.com.



www.iATN.com

Did you know that AES is one of the iATN original sponsors?

Order & Help Desk: (559) 292-7851

Cam/Crank Reference Library AES# ace-11

The A.C.E. Ckp/Cmp Signal Reference guide manual provides known good examples of 60 different proper relationship signals for domestically produced engines.

Verify that a timing belt or timing chain is aligned correctly. A reference relationship waveform is also an absolute must for setting a Ford Hall effect cam synchronizer properly with a lab scope. 60 relationships covered by 104 large and easy to read waveforms and show the vast majority of Crankshaft and Camshaft synch relationships of all the Chrysler, Ford and GM engines ever produced.

Really handy, really cool.

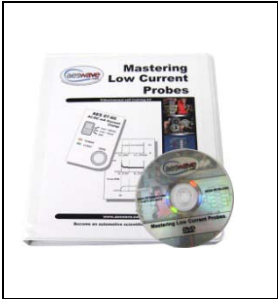


Mastering Low Current Probes AES# 09-06 dvd

Jorge presents an insightful, objective and precise explanation of the tools, the systems and the diagnostic strategies for using current probes, lab scopes and graphing meters in your automotive investigations. This video contains 104 minutes of intense details covering:

- Current flow basics
- Probe selection and calibration
- Scope setup and connection
- Scope and probe synchronization
- Circuit connection
- Signal analysis

Do you know what you are missing?



MODIS, The Complete Guide AES# CSI-10-CD

A must have for all MODIS users, this book provides one handy reference for all MODIS tools and features:

- Tour of External and Internal Features
- MODIS Navigation: Scanner, Lab Scope and 5-Gas> Screen Layouts
- Troubleshooter Navigation
- Updating Instructions
- Secondary Ignition
- Glitch Capturing
- Features & Secrets

Get the most from your MODIS



AutoData Titles Available:

- Tire Pressure Monitoring Systems
- Timing Belts & Chains
- DTC Codes (Domestic and Import)
- DTC Codes (Euro)

Vehicle Emissions Diagnostic Strategies Manual

ATTS

Getting to Know OBD II, 2nd Ed.

ATTS

OBD-II Diagnostic Strategies

ATTS

Understanding and Diagnosing Hybrid Vehicles

ATTS

Emission Technician DVD

ATTS: OBD-II Monitors and Mode 6

Intermittent Electric and Drivability Diagnostics

Honda & Acura Engine Performance (thru 2006)

Ford 6.0 & 7.3L PowerStroke Engine Perf. (1998-2003)

Vehicle How To Test Guide for DMMs

Learn when you are ready to learn with these popular DVD training titles!



Chrysler EVAP System with Leak Detection Pump [LDP] with John Thornton (DVD)
AES# avi-118



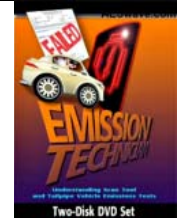
Ford 6.0L Powerstroke DIT Diagnostics with Mike Cleary (DVD)
AES# avi-136



Ford and GM Enhanced EVAP Systems with John Thornton (DVD)
AES# avi-123



Bill Fulton's 4/5 Gas Emissions Testing (DVD)
AES# avi-43



Emission Technician DVD
AES# ATTS-40

AES LineSpi – The smart DLC Breakout Box



AES LineSpi AES# 08-200

The AES LineSpi is a pass-through breakout box for the DLC connector. The LineSpi includes LEDs to identify the OBDII communication protocol as well as LEDs to indicate the integrity of the powers and grounds.

The LineSpi is passthrough. Connect your scan tool to LineSpi and LineSpi to vehicle. Use the LineSpi:

- To monitor the datalines with a lab scope or meter.
- As a 4 foot extension for your scan tool.
- To quickly determine scan tool communication protocol.
- As a power and ground integrity indicator.
- To gain access to ground or power for other testing.
- To safely jump between DLC pins.

The LineSpi is a time saver and a true convenience tool by greatly simplifying any work that needs to be done via the DLC connector!

CarDAQ-Plus Reprogramming Interface w/OBD2 Cable AES# DT-CARDAQ-Plus-Kit

The ultimate interface for dealer-level pass-thru programming on automobiles, heavy duty trucks, and CAN networks. It provides the missing piece between the OEM and your customer's vehicle. Works with J-2534 compliant vehicles from the following manufacturers:

- Acura • Audi • BMW • Buick • Cadillac • Chevrolet • Chrysler • Daewoo • Dodge • Ford • General Motors • GEO • Honda • Hyundai/Kia • Infiniti • Isuzu • Jaguar • Jeep • Land Rover • Lexus • Lincoln • Mazda • Mercedes • Mercury • Mitsubishi • Nissan • Oldsmobile • Pontiac • Porsche • Saturn • Scion • Toyota • Volkswagen • Volvo

OE verified and approved with some MFG

Great all-rounder



i-Flash 2534 Global ReProgrammer AES# BDM-BXBD35721

The i-Flash 2534 Global Programmer is a J2534-compliant passthrough reprogrammer and can be used on non-J2534 systems. Connect it to your PC, download the latest updates from the manufacturer and upload to your customer's vehicle.

The i-Flash lets you replace or recalibrate ECMs so you don't have to send your customers to the dealer. Updating calibrations are the "21st Century Tune Up" and you can do them with the I-Flash. Calibrations files often correct: DTCs that set incorrectly, transmission shift points, timing issues, fuel economy and other drivability problems.

Low cost

All-rounder



Toyota Mongoose (MFC) AES# DT-Toyota (MFC)

Toyota Mongoose is a low-cost, high-performance factory diagnostics and reprogramming interface for Toyota Techstream Lite, compatible with: 1996 and newer Toyota, Lexus, and Scion vehicles over the DLC3 (J1962).

Toyota Certified Reprogrammer Interface

Purchase the Toyota Mongoose then subscribe to Toyota TechStream Lite for as low as \$55.00 (three days).

*Also ask about the **Ford Mongoose** and the **GM Mongoose***

Toyota



Tech 2 AES# B-Tech2 YourBosch# F00E900021

If you work on GM this is the scanner to have. Authentic General Motors software coverage from model year 1992 to current, includes Hummer, gives you the same diagnostic capabilities as the Dealership.

- CANdi Module for 2003 & later vehicles
- Covers all power train, chassis, and body systems.
- 100% Bi-Directional capabilities.
- ALL Body system Functions.
- Setups and initialization function for Replacement ECUs.
- 4 wheel & Electric steering Functions for wheel Alignment service.
- Anti Theft Diagnostics.
- Full TPMS functionality

A must have if you work on GM

GM



DLS-90 90Amp Power Supply Charger AES# DLS-90

Are you ready to start re-programming? Don't; start until you have a clean and steady regulated voltage source! Without a reliable voltage source, your reprogramming can turn into an expensive nightmare. The DSL product line provides reliable, steady and clean voltage/amps.

DLS-90: 90 Amps for all vehicles including high-end BMW and Cadillac.

DLS-75: 75 Amps for general applications.

Don't take chances when reprogramming!

Epsilon Ready





Trade-in Specials

The Launch Tool AES# L-Tool

The Launch is a very popular scan tool, known for its Asian and European coverage. Color Screen – Touch screen - Bluetooth - Module Coding – Actuator Tests – Thermal printer – much more.

AES Support: Purchase from AES and we will register and preload the latest updates before we ship/deliver the unit. (This saves you approx 2-3 hours of setup time!)

Demo available in Fresno area. **Trade-in Specials!** *BAR Approved!*



AutoEnginuity Pro-Line Bundle AES# AE-SP01

PC based Scan tool. Great coverage to cost ratio. User Friendly interface. Installation is very easy. Offers unique translated mode\$6 data.

- Includes Asian, European and Domestic packages (also available with just generic)

Excellent all around tool *BAR Approved!*



Ask about the new Bosch KTS-340

Bosch/Vetronix Tools and Accessories

Interested in Bosch diagnostic tools, accessories and training information? Please visit our Bosch solution source and update center.



Hardware, software, updates, manuals, videos, forums, FAQs

www.YourBosch.com



CRecorder AES# L-Crecorder

Connect the Launch CRecorder to the vehicle's 16-pin diagnostic connector, turn the ignition on to automatically begin recording real-time engine data such as ignition timing, fuel trim and engine speed, among many other variables.

Records up to 24-hours - Time stamp - USB to PC connection



AutoLink OBDDII / CAN Scan Tool AES# ATL-309

A scan tool that looks like a code reader, the AutoLink™ not only has a specialized continuous update screen for readiness monitors, but utilizes complete live data functionality.

- For technicians:** It's a perfect 2nd scan tool.
- For Service Writers:** Your primary tool.
- For Students:** This is a great tool to start your career.

A Quick Draw Tool



VAG-COM Diag. System (VCDS) Pro Kit for VW/Audi AES# RT-VAG-COM

The VAG-COM Diagnostic System (VCDS) Pro-Kit is powerful enough and inexpensive enough to be useful to any technician that works on Volkswagen, Audi, SEAT and Skoda:

- Independent Repair Shops
- Dealership Technicians
- Transmission Specialists
- Locksmiths

Yes, the VCDS performs all necessary EPB functions in VW/Audi models!

Tech 2 AES# B-Tech2 YourBosch# F00E900021

If you work on GM this is the scanner to have. Authentic General Motors software coverage from model year 1992 to current, includes Hummer, gives you the same diagnostic capabilities as the Dealership.

- CANdi Module for 2003 & later vehicles
- Covers all power train, chassis, and body systems.
- 100% Bi-Directional capabilities.
- ALL Body system Functions.
- Setups and initialization function for Replacement ECUs.
- 4 wheel & Electric steering Functions for wheel Alignment service.
- Anti Theft Diagnostics.
- Full TPMS functionality

A must have if you work on GM

GM OE TOOL



NGS CAN VIM



NGS CAN Update & 2009 Software Update

NGS



NGS ABS Connector Cable 1994 and up E-series applications

NGS



NGS body Control Function (UBP) Cable Certain 2002 and later

NGS



NGS Speed Control Cable – For new generation speed control

NGS



NGS 2009 Software

IDS VCM Scantool Kit AES# IDS VCM

The OEM scan tool . . . for Ford, Lincoln, Mercury! The Ford Integrated Diagnostic System (IDS) VCM Scan Tool kit provides complete coverage of OBD-II compatible (1996-up) Ford, Lincoln and Mercury vehicles in North America.

With the IDS VCM Scan Tool kit you can perform the same diagnostic and service functions as the dealers.

The OEM scan tool . . . for Ford, Lincoln, Mercury!

Ford OE Tool



ATS EScan with SharpShooter AES# ATS-EScan

A PC-based diagnostic tool that uses OBD2 to calculate values useful for drivability diagnostics and then recommends a course of action. It also provides generic OBD2 scan tool functions, including translated Mode 6 data.

Sharp SHOOTER™ Automated Troubleshooting Actually Alerts you of Problems:

- Bad MAF Sensors
- Catalytic Efficiency Problems
- Fuel Control Problems
- Charging System Problems
- Mechanical Problems
- And much, much more!

Scan, Flash and Plug-n Play right out of the box



Toyota Mongoose (MFC) AES# DT-Toyota (MFC)

Toyota Mongoose is a low-cost, high-performance factory diagnostics and reprogramming interface for Toyota Techstream Lite, compatible with:

1996 and newer Toyota, Lexus, and Scion vehicles over the DLC3 (J1962).

Dealer level Toyota Scantool!

Purchase the Toyota Mongoose then subscribe to Toyota TechStream Lite for as low as \$55.00 (three days).





ADL 7103-in1 AES# UEI-7103

3 tools in one! 2-channel scope, DMM and OBDII code reader. The ADL-7100 is a very capable hand-held scope. The design is based on the Fluke 98 Series II. This includes the menu system, keyboard layout and menus.

1. Use the DSO to capture a live “signature” of a circuit.
2. Use the GMM (Graphing Multimeter) to graph trends in the signal.
3. Use the Code Reader for quick code checks and I/M Readiness Status to confirm repairs.

Best hand-held power per dollar value.



Pico Scope 4-Channel 4423 – Full Kit AES# PT-PP495

Pico’s top of the line 4-channel PC based scope. Connect to PC via USB. Captures at up to 80mS/s. This is a full kit that includes amp probes, EAPs and ignition. Includes waveform library. Perfect for the power user and still easy enough for the beginner.

Also available in 2 channel and without test leads.

One of the most powerful and the most popular.



Fluke 192c Scopemeter Color AES# F-192c/003

Speed, performance and analysis power! The ScopeMeter 192 high-performance oscilloscope with 60 MHz bandwidth, 2.5 GS/s real-time sampling and a continuous recording feature of 27,500 points per input. Truly a hand-held powerhouse that now includes a color screen.

AES Exclusive! -Receive a free copy of the [AES Setup Shooter](#) with the purchase of a Fluke 192B ScopeMeter®. Also, AES has a full line of accessories for the Fluke Scopes and Meters!

**For the power user that wants the freedom of hand-held.
Ask about batteries, AC Chargers, leads – anything Fluke!**



ATS E-Scope 8 Channel AES# ATS-EScopePro

Yes, an 8 channel PC based scope with meters and function generator. Definitely for the power user. Dual time base – run different time settings in different window panes. Kit includes most of the test leads you need.

8 channel PC based lab scope!



AES Palm Digital O-Scope AES# aes-pdso

A pocket scope the size of a cell phone. Great for quick tests of ignition, TPS, injector and O2.

Based on ARM Cortex M3 32 bit processor. 320 x 240 color display. Rechargeable via USB. Supplied with test leads and SD card with a small library of pre-programmed automotive setups.



1-Channel pocket digital storage oscilloscope



If you have a scope or meter...we have test leads and accessories for you!

Automotive Diagnostic Pressure Transducer AES# WPS500x

Designed to offer uncompromising resolution and accuracy, the Pico automotive diagnostic pressure transducer allows quick and accurate pressure analysis of many automotive systems, with:

- Three pressure ranges
- A zoom tool
- Integrated bleed-off / pressure relief valve
- Accurately measure vacuum to 500psi
- Ultra fast 100 μ S response time
- Zoom feature for enhanced analysis
- Rechargeable Li-PO battery
- Integrated pressure relief / bleed-off valve
- Auto Zeroing
- High noise immunity
- Temperature compensated

High Tech pressure transducer!

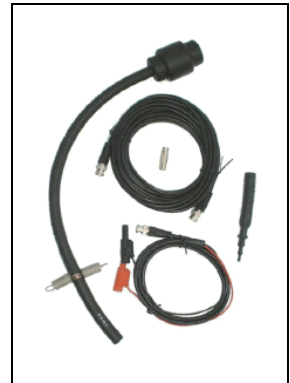
**FirstLook Engine Diagnostic Pulse Sensor AES# SX-100**

This is an excellent tool to inspect the mechanical condition of an engine through a vacuum waveform generated at the intake or through the exhaust. Ideally, use the FirstLook™ to verify the mechanical condition of the engine before using your scan tool.

Connect FirstLook™ to your lab scope, stick it into the exhaust (or intake manifold) and run the following tests:

- Cold Crank: relative compression
- Warm Idle: cylinder efficiency
- Power Brake: Capture intermittent problems

Vacuuming has never been so productive?

**Fluke Pressure Vacuum Module AES# F-PV350**

Use to measure fuel, oil or transmission pressure or engine vacuum. The Fluke PV350 turns your lab scope or digital multimeter into a complete measuring system for measuring:

- Hydraulic and pneumatic pressures up to 500 psig.
- Vacuum to 29.9 Hg

Flip a switch on the module to change from pressure to vacuum and vice-versa.

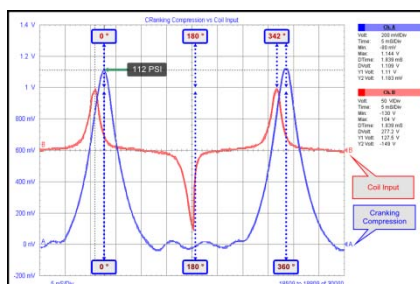
A "most popular" seller!

**Pressure Transducer Kit AES# ATS-PTR1003**

For use with all scopes. Offers 0-5v output for improved resolution. Quickly finds misfiring cylinders, running compression problems, camshaft timing problems, blown head gasket, sticking piston rings, fuel pressure problems, and much more.

Can be used in conjunction with all ATS diagnostic equipment and most any other labscopes, such as Pico, Snap-on MODIS, VantagePro, Interro, Fluke, etc...

This is one diagnostic tool for the new millennium technician.



Pressure transducers offer unique, efficient and effective opportunities for engine systems analysis. It can be especially helpful for checking mechanical condition while cranking or engine running.



Secondary Pickup AES# 01-12

Examine secondary ignition waveforms safely on your lab scope with the AES secondary pickup. His pickup is ideal for:

- Single cylinder, superimposed and parade patterns on conventional ignition systems
- Single cylinder patterns on coil-in-cap (GM HEI, Toyota, Honda, Nippondenso, etc.) and DIS (EI) systems

NOTES: Available for most scopes. Use with AES# 01-14 Trigger Pickup (on standard ignition systems)

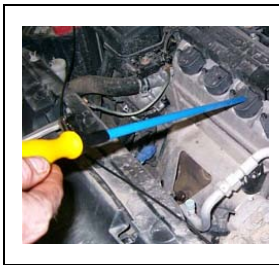


Trigger Pickup AES# 01-14

Use this probe to sync the update of your lab scope to a secondary plug signal. Simply install it to a plug wire that you wish to sync from and setup your scopes trigger settings. There are many applications including:

- Ideal to parade and ID secondary ignition waveforms on standard ignitions.
- Stabilize crank signals that have a TDC notch.

NOTES: Available for most scopes..



WyzeProbe – COP Secondary Pickup AES# AW-24

24" long probe designed to pick up the secondary signal from coil on plug systems. Connect to your lab scope via the 10' shielded cable and place the wand tip on the coil!



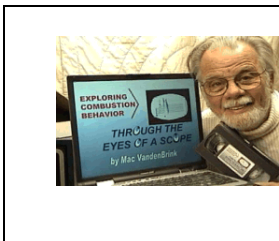
NOTES: Available for most scope. Also available in a 15" version.



DIS-Secondary Ignition Analyzer for Lab Scopes AES# Fer-953

The 953 will adapt virtually any labscope to read parade pattern ignition waveforms on DIS and Distributor ignitions. The Ferret 953 has a single BNC connector, Banana Jack Adapter, KV leads for up to 10 cylinders and a Ground Lead. Also includes a Synch (Trigger) Probe.

Internal 9-volt battery eliminates the need for power leads!



Exploring Combustion Behavior Through the Eyes of a Scope AES# COP-10

Nobody knows more about ignition and combustion analysis than Mac Vandenberg. You'll understand how to analyze ignition waveforms and what they can tell you about the ignition, fuel and mechanical systems.

- Topics include:** • Secondary ignition waveform analysis • Combustion analysis through the ignition waveform
Contents: • DVD-based video is 90-minutes • 125-page workbook and PDF



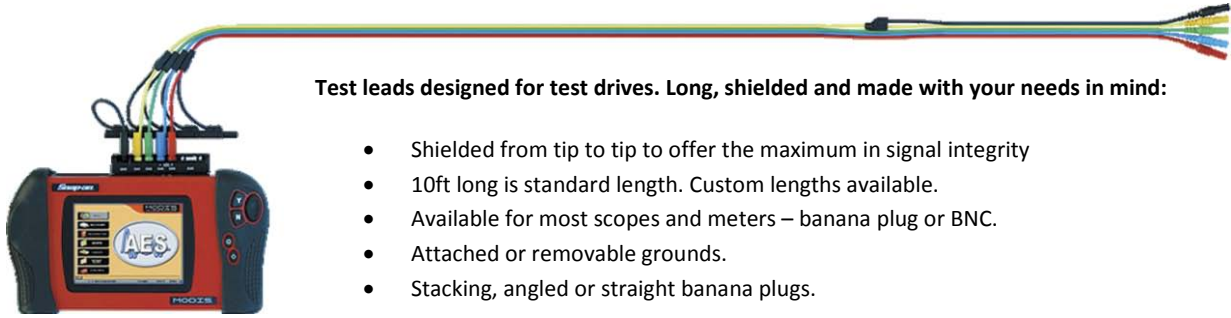
Coil on Plug Diagnostic kit AES# cop-3

Mac Vandenberg eliminates the frustration of diagnosing COP systems with the COP-III test link!

The COP-III provides quick information about coil triggering & activity and allows for easy scope connection to grab a primary waveform. Why bother with secondary when the primary burn line will show you all the information you need about the spark/combustion event?



AES ST3 Test Drive Lead Sets



Test leads designed for test drives. Long, shielded and made with your needs in mind:

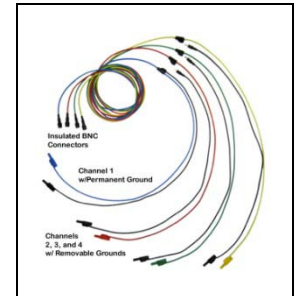
- Shielded from tip to tip to offer the maximum in signal integrity
- 10ft long is standard length. Custom lengths available.
- Available for most scopes and meters – banana plug or BNC.
- Attached or removable grounds.
- Stacking, angled or straight banana plugs.

ST3 for Pico 4-Channel Scope AES# 03-760 pico

Finally, they are here: the colored test leads you have always wanted for your PicoScope!

- 10-ft long
- Shrouded/stacking banana-plugs at test points
- Shielded from tip to tip
- Removable ground extensions
- Insulated BNC at scope connection
- Made in the USA

Color-coded cables



ST3 for the Modis AES# 03-760 modis

10foot long! Stacking banana plugs, ground doubler. Turn your MODIS into a test drive machine with ST3 Test Leads or simply mount your MODIS on a cart. Shielded from tip to tip. Color coded to channel.

Test and approved by Snap-on Engineers.



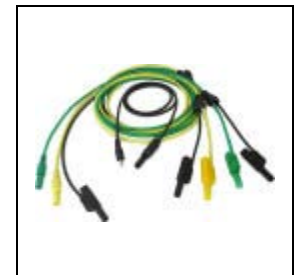
If you have a Modis – you want these ST3 Test Drive Leads!

ST3 for Snap-on Vantage Pro AES# 03-760 vPro

Set of two ST3 10-ft long shielded test leads:

- 1 @ Yellow with ground-to-instrument and ground-to-vehicle
- 1 @ Green with ground-to-instrument and removeable Ground Extension
- Plastic container with hinged lid

10ft long and shielded from tip to tip!



Custom



Extensions

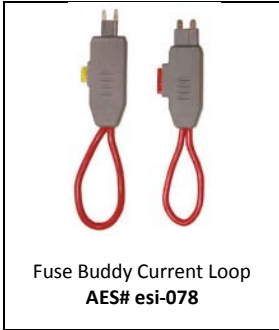


Older Scopes



Multimeters

If you don't see what you need here, just ask!



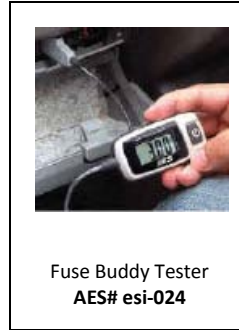
Fuse Buddy Current Loop
AES# esi-078



Fuse Buddy DMM Leads
AES# esi-013



Fuse Buddy Pro Test Kit
AES# esi-310



Fuse Buddy Tester
AES# esi-024



Fuse Buddy Tester 30a
AES# esi-056



Low Current Probe AES# 07-60

This cost-effective low current probe is ideal for capturing waveforms from fuel pumps, injectors, relays, ignition and more. This probe can be used with just about any meter capable of measuring DC voltage.

This low amp current probe can be used with scopes and meters such as the Snap-on Vantage and Modis, UEI scopes, Fluke scopes and meters, Interro, Vetronix, OTC, Ferret, Tektronix, BDM, Pico, ATS. In essence it can be used with any scope/meter that displays a voltage in digital or waveform format.

If you are not using a current probe, you are only seeing half the picture!



High Current Probe AES# 07-600

Low priced, high current probe with large jaw. Rated 1 to 600 Amps.

Features a zero-wheel and an output calibration of 1mV/Amp. This probe is ideal for testing starter and charging systems, relative compression testing, etc.

This low amp current probe can be used with scopes and meters such as the Snap-on Vantage and Modis, UEI scopes, Fluke scopes and meters, Interro, Vetronix, OTC, Ferret, Tektronix, BDM, Pico, ATS. In essence it can be used with any scope/meter that displays a voltage in digital or waveform format.

To see how hard a circuit is working you need to see both current and voltage!

If you are not using current probes, you don't know what you are missing.
Check out our **Mastering Low Current Probes DVD video + manual:** AES# 09-06 dvd



uActivate Circuit Testing Aid AES# aes-ua1

The only way to thoroughly electronically test a circuit is to monitor both voltage and current. This is especially true for circuits with electrical motors and other coil based loads The uActivate makes this easy and quick.

1. Remove the relay from the circuit and install the uActivate.
2. Connect your lab scope with amp clamp to the handy uActivate amp loop.
3. Connect scope channel 2 to monitor the circuit voltage via the uActivate banana sockets.
4. Manually operate the circuit and look for any irregularities in the voltage and current waveforms.

Includes LED to identify the power side of the relay contacts. Another LED to identify when the relay is being activated by the system.

It is easy to replace a relay.

Now, make it easy to prove the circuit is functioning as the engineers intended

Pomona Wiring Piercing Probe 4" AES# PE-10 (set of 2 - 1 red and 1 black)

Precision wire piercing probes. Rotate end knob to move the needle forward. Needle does not spin! For wire ranges 0.030" to 0.180".

NOTE: This probe is intended for automotive use only and does not conform to IEC1010. Do not use it above 30VAC/60VDC. Maximum current capacity is 5A.

If you have to pierce, do it right!



Electronic Acupuncture Probe AES# 05-The most versatile set of electrical probes ever! For testing electronic systems in which minimal impact back probing and wire piercing is mandatory. Strong and needle sharp, what makes this probe unique is the fact that you can replace the needle!

Ideal for use in back probing weather pack connectors. Unlike other probes, if you bend the needle, don't throw away the probe – replace the needle with the supplied replacement needles. Kit includes 5 complete EAP probes and a bag of replacement needles.

Motor Top 20 2001!



Kit includes 5 probes, extra screws and needles)

AES Probe Kits

AES# 05-725



AES# 05-730



AES# 05-760

Sometimes you just have to start with a fresh set of probes!

tesLoad AES# tesLoad

TesLOAD with TESlite® Voltmeter Leads allow you use your voltmeter as a CIRCUIT LOAD TESTER, replacing the load in an electrical circuit so a load test (voltage drop test) can be made with the component removed.

TesLOAD with TESlite® Voltmeter Leads identify and locate corrosion in wiring when connected to any digital voltmeter (with banana plugs). By using a dynamic voltage drop test rather than a static voltage reading, this tool eliminates the error in digital meters and increases the effectiveness of the voltmeter.

Press the button = load the circuit

**G-Auto Terminator Probe** AES# T-72J

The Terminator is an advanced Logic Probe plus a DMM with voltage, frequency and duty cycle. Trace wires and perform continuity tests, and analyze any type of signal. Won't damage sensitive electronic components. Safe for automotive computers.

- Starting and Charging systems
- Relay and Actuators
- Sensors

When you have to do quick checks on the PC Board level!

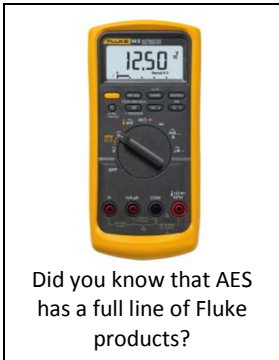


MMD 540H Hybrid Multimeter YourBosch# F00E900101

Hybrid ready Multimeter is a CAT III (1000v) safety rated, auto ranging digital multimeter designed for use in diagnostics of electronic circuits. Whether your shop services automotive, fleet, motorcycle, marine or small engine, the MMD 540H has the capability to keep up with your business.

- CAT III (1000v) - hybrid vehicle ready
- Peak, Min / Max readings
- High amp test ranges, up to 20 Amps
- Inductive RPM clamp
- Fused diagnostic test leads
- K-Type thermocouple Large
- LCD display with bright backlighting and auto shutdown

Hybrid Ready DMM!



Did you know that AES has a full line of Fluke products?

Fluke 88V Deluxe Automotive Multimeter AES# F-88V

The Fluke 88V has improved measurement functions, trouble-shooting features and accuracy to solve more problems on conventional and hybrid vehicles. The 88V is the most powerful automotive multimeter ever offered by Fluke. In addition to having all standard multimeter features like the ability to measure voltage, current, continuity, and resistance, the 88V can perform diode test and pulse width measurements.

This meter can take current measurements up to 20A for 30 seconds and 10A continuously. The optional magnetic hanger lets you attach the meter to most steel surfaces for easy set-up and viewing. The 88V is designed to be used in high energy environments like those found on hybrid vehicles.

Do you have a Fluke?



Clamp-on Multimeter AES# UEI ACM6000

Amp clamp on one end. Digital multimeter on the other end. The ACM6000 Clamp-On Multimeter is ideal for testing blower motors, lights, fuel pump current draw, starter motor current draw and most other vehicle electric motors (antennae, door-locks, mirrors, etc.). Its a new way to test charging systems.

If diagnostic speed is important than perhaps this is the tool for you!



ADM5201 Digital Advanced Diagnostic Multimeter AES# UEI 5201

The ADM5201 advanced handheld automotive multimeter combines all the features of a full function multimeter and integrates the functions of an *O2 Sensor tester, PFI & TBI Fuel Injection tester*. The ADM5201 provides a quick and accurate diagnosis of the complete O2 circuit. It is also capable of sending a Rich/Lean signal to the ECM, and displaying crossing-per-second (CC) and O2 voltage simultaneously, when secondary display shows test results. This professional grade multimeter provides efficient trouble shooting solutions to the most difficult problems encountered in today's sophisticated automotive electronic systems.

Dual display shows voltage and RPM simultaneously



Fluke 233/A Automotive Digital Multimeter Kit AES# Flk-233a

The new Fluke 233/A Wireless Remote Display Automotive Digital Multimeter Kit allows users to be in two places at once. Ideal for technicians working on either conventional or hybrid vehicles.

By simply sliding the wireless display out of the Fluke 233/A's meter body, the technician can place the display where it is most easily seen—up to 10 meters (33 feet) from the point of measurement—while putting the meter in the best position to take measurements. The removable display has a magnetic back and flat bottom so it can be mounted or placed on any flat surface where it can be conveniently seen. When the display is attached to the meter body the Fluke 233/A operates as a conventional multimeter.

The power of convenience and the quality of Fluke!

Relay Test Jumper Kit AES# Lis56810

Test relays while in the circuit!

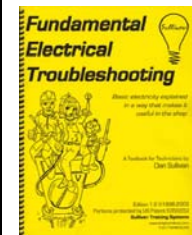
- Set of Four Relay Test Jumpers Make Testing Relays or Live Circuits Quick and Easy
- Set includes four jumpers to fit the most popular size relays on domestic and import vehicles
- Simply remove relay to be tested, insert correct jumper and insert relay into jumper
- When using green four pin jumper be careful to align pins on jumper and relay correctly
- No need to pierce wires or connect multiple jumper wires
- Jumpers have tabs for clamping and flat pads to place test leads on

A no-brainer

**Electrical Troubleshooting** AES# tesBook

Written by a Mechanic for Mechanics. Fundamental Electrical Troubleshooting - the SHOPbook - is a 100-page book written with mechanics in mind. The examples are clear and are practical.

- | | |
|---|--|
| • Relays and Solenoids | Voltage, Resistance and Current in Troubleshooting |
| • Rheostats and Potentiometers | • Diodes, Transistors and Multiplexing |
| • How to REALLY Read Schematics | • Motors and Alternators |
| • Meter Reading Tricks and Little-known facts | • Troubleshooting Methods and Tricks of the Trade |
| • Multiplexing and Sensors | |



PowerProbe – A must have tool. One of the most popular!



Power Probe 3 (PPR319FTC Red)



Power Probe 3 Lead Set Combo (PP3LS01)



Power Probe Master Combo Kit (PP-3 Master Kit)

ECT2000 SMART Short Circuit Tracer AES# ppect2000

The "SMART" ECT2000 makes locating short and open circuits easier than ever before. The ECT2000 detects and alerts you to short and open circuits. You can also wiggle and flex wires or connectors to detect intermittent circuit conditions.

The 2 main tools in the kit are the "SMART" transmitter and the "SMART" receiver. The "SMART" receiver's "sensitivity adjustment" keeps you on the right circuit and ignores the unnecessary weaker signals. It also shows you the direction to the short circuit, eliminating the guesswork.

Remember the last time you looked for a short?

**Circuit Load Simulator** AES# wk-44065

Eliminate unnecessary component replacement and the inaccurate method of static voltage testing vehicle wiring with a DVOM. The Circuit Load Simulator is like using a KNOWN GOOD component to dynamically LOAD TEST the circuit.

- More accurate than static voltage and ohms testing
- Dynamically loads the circuit to test current flow (amps)
- Isolates the problem: Bad circuit or Bad component

When you need it, you need it!





SMT 300 Smoke Machine Tester by Bosch AES# smt300

The SMT 300 is a multi-purpose tester designed for leak detection in any low pressure closed system. It features a graduated smoke flow control valve, air flow meter, and pressure decay gauge as well as a kit of complimentary accessories.

Smoke'n out problems!



Smoke Wizard AES# smokewizard

Global Leak Detection (Global) is one of the oldest and most experienced companies supplying smoke machines for leak detection to the OEM market, including companies like Audi, KIA, Mazda, Porsche, VW and others. The smoke machines supplied to these automakers have been with the K-line brand of smoke machines. Now, for the first time, Global introduces a smoke machine for the aftermarket - the Smoke Wizard. – Can be used with any inert gas including nitrogen!

**Did you know that 9 of the top 10 DTC's can be diagnosed with a SmokeWizard:
P0325 P0420 P0300 P0171 P0401 P0174 P0455 P0442 P0301 P1456**



EVAPro: Evap Emmissions Leak Detection System AES# V-2000E

The 2000e EVAPro uses nitrogen to performing EVAP testing. Nitrogen minimizes the bang danger of introducing O2 into the EVAP.

If you have the BAR-certified [LPFET equipment](#) then you already have the nitrogen, might as well use it with the 2000e EVAPro for leak testing.

Use the 2000e EVAPro with shop-air for non-EVAP general purpose testing.

Powered by nitrogen for safe testing!



SmokePro Total-Tech Leak Locator & Acc. Kit AES# Smoke Pro TT

Operates on Medicinal Mineral Oil (baby oil) = cost of operation less than one cent per test. Regulated at 13 inches of water – the approved test pressure for EVAP. Also includes flow control valve, flow meter and pressure gauge.

The Total-Tech's™ compact design allows the unit to hang under the hood or hang from under the chassis during testing. Machined from solid billet aerospace aluminum, the Total-Tech™ is made in America and warranted for one full year.



AutoLink OBDII / CAN Scan Tool AES# ATL-309

5-gas analyzer, Bar-90 certified and Bar-97 compliant. All five gases are tested with sensors that have an accuracy of 1 percent. This data is processed with a microprocessor and displayed on the front panel or displayed on a PC with scrolling graphs.

- Sample to display time is under 2 seconds making this the FASTEST unit available.
- Calculations are made for air-fuel ratio and lambda which are digitally displayed or graphed on scrolling charts.
- This unit also provides IM240 testing in grams/mile.

Speed is king!



Ford and GM Advanced EVAP System AES# avi-123

John Thornton brings you enhanced EVAP Diagnostic Strategies needed to repair GM and Ford vehicles. Complicated ideas are made easy to digest in this highly technical program.

- Ford Monitors and Diagnostic Strategies
- GM Service Bay Tests
- Numerous Case Studies

Materials include a DVD and comprehensive manual



Auxiliary Terminal Test Adapter Kit
AES# 05-800



Rigid yet bendable, color-coded connectors that adapt any banana-plug test lead to Packard Weather-Pack, Metri-Pack and Micro-Pack terminals.

CJWim AES# CJ-Wim

Want to easily check monitor status and codes? Then you need to try the CJ-Wim. It is a unique Emissions Monitor status tool. Easy to read display with LED lights to show complete or incomplete monitors. Also displays DTC information in one tool.



Don't tie up your power scan tool to check monitor status and codes.

Just plug in this specialty tool and it does the work.

Perfect Mate: Spade Terminal Probe Adapter Set

AES# WK-77202

The Perfect Mate Probe Adapter Tips are designed to connect to any test lead tip to give access to most automotive connector pins. They work great for "hands free" jumper wire testing.

They work great for "hands free" jumper wire testing. The Tee Connection Adapter provides a solid connection for road testing. It acts like a universal breakout box for virtually any 2 or 3 pin connector on the vehicle.



Fuel Zapp FSA AES# TAL-FSA

Connect the Fuel Zapp FSA to Gasoline and Diesel engines to diagnose

- Incorrect fuel pressure
- Incorrect system fuel flow
- Plugged fuel filter
- Faulty fuel pump
- Plugged fuel pump inlet strainer
- Faulty fuel pump check valve
- Leaky fuel injectors
- Fuel aeration and/or contamination
- Restrictions in supply/return fuel lines
- Incorrect intake manifold vacuum
- Turbo-boost pressure operation
- Incorrect operation of the fuel pressure regulator



kV/Arc Quick Probe AES# wk-76760

There's no faster way to measure and compare peak kV, or verify the proper firing of the secondary ignition system, than with the kV/Arc Quick Probe.

Easy to use – simply place the probe over the ignition wire. Each time the unit detects a spark firing, it will flash the Super Bright LED strobe indicating a spark-firing event with sufficient arc duration. Then press the button and the unit measures and displays peak kV on the LCD display.



AES has a full line of Weakon products

Wheelright TPMS Reset Tools



BT-300

Get started now. Includes 2008



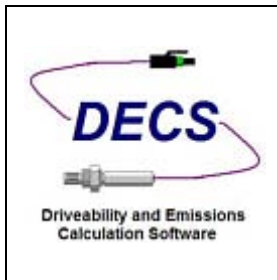
BT-300 plus

Adds a display and menu system!



BT-400 plus

The do it all model!

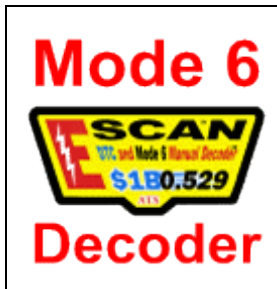


Drivability and Emissions Calculation Software AES# DECS-01

DECS is a compilation of diagnostic calculators, some already commonly used, to aid technicians in diagnosing drivability and emissions issues. These calculations have been improved upon and assembled in one application in order to streamline the diagnostic process.

Volumetric efficiency (VE), lambda, and combustion efficiency (CE) have gained popularity in recent years. Until now, all of these calculations have not been available in one place.

A convenience tool



Mode 6 Decoder Software AES# ATS-Mode6

The Mode6 Decoder (EScan Decode) is software for your PC that will allow you to manually enter in information from your scan tool on DTC's and mode 6 data.

The EScan Decoder will then give you the correct definition of the DTC that was entered.

When you enter either **decimal** or **hexadecimal** data the Mode6 Decoder software will give you the correct definition of either data type.

Free updates

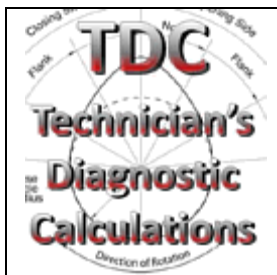


AES Anno Wave AES# 06-50

The Anno Wave! is a graphics annotation and layout tool that radically simplifies the creation of high-end annotated graphics for documentation, web display, and email. This is accomplished by combining key features from image editing programs, layout programs, vector art, and presentation programs. Best of all it is designed specifically for diagnostic technicians.

If your goal is to annotate and or combine images to make a "final" image, this is the program for you.

Free 30 day test drive. Learn more at www.annowave.com



TDC Software: Technicians Diagnostic Calculations AES# DECS-02

Want a little extra help analyzing waveforms, particularly those dealing with valve issues, camshaft timing, misfire analysis, etc? If your scope can transfer screen captures to your PC screen then you could use a little "TDC". TDC stands for "Technician's Diagnostic Calculations" software, and it can help you. TDC is a two part software application designed to help technicians analyze scope captures of engine mechanical issues related to intake vacuum, in cylinder pressure transducer testing, exhaust pressure analysis and more.

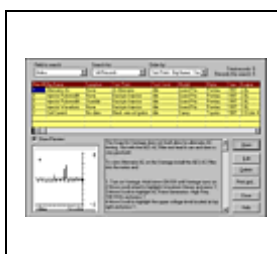
For the engineer in you!



AES Setup Shooter for Fluke Scopemeters AES# 06-10

Software program designed to save waveforms and setups from your Fluke Scopemeter. One primary goal of the SetupShooter is that it allows you to organize your setups, send them back to your scopemeter and then make a printed report for reference. Along with this powerful feature you can also play back the datapoint waveforms and annotate them!

30 day demo is available. You will need an interface cable.



AES Wave Information Management System AES# 06-60-67

Screen capture software for a wide variety of hand-held test equipment. Also saves images and text. Provides management of diagnostic information within a database format for ease of storing and retrieving information records. Also provides professional printed reports for your records and customers.

Note: Does not work on 64bit computers.

Motor Top 20 1997



Wheel Service

Go Green with Bosch Wheel Service and AC equipment.



Bench and on-car Brake Lathes.



Nitrogen Tire Filling System



Wheel Alignment systems include low cost, 3D and pro level Truck systems.



A full line of tire changers for every application.



Wheel Balancers for all shop categories including trucks.



The latest technology for A/C service.

Call AES for product brochures (559) 292-7851 & visit www.YourBosch.com for Bosch Diagnostic tools



Wheel Service

Launch Tech – Value priced

RF 8 Sensor CCD Technology Wheel Aligner	Manual Data Entry Wheel Balancer	Three levels of tire changers. Entry level to heavy duty.

Call AES for product brochures (559) 292-7851 and ask about setup and training with purchase!



Hot New Product!

Bosch KTS-340 – Mobile Diagnostic Solution

The Bosch KTS 340 is a complete mobile diagnostics solution developed specifically for North America.

Coverage

- **Domestic:** Chrysler, Ford, General Motors
- **Asian:** Toyota, Honda, Nissan, Hyundai, Kia, Lexus, Scion, Acura, Infiniti
- **European:** Audi, BMW, Mercedes-Benz, Mini, Volvo, Volkswagen, Smart

Advantages:

- New and intuitive operating system
- Accurate and easy automatic vehicle identification
- Quick module status check of the vehicle network
- Clear diagnostics system menus
- SnapList (Data display)
- Web browser
- 2-Channel Digital Multimeter

Super smart vehicle
setup and module ID!
Ask for a demo...you
are going to be
amazed!





Solutions for automotive professionals.

(559) 292-7851

A few of the manufactures that we represent:



Test leads to hoists. If you don't find it in the catalog or on the our web site...**just call!**

Did you know that AES has won 4 Motor Top 20 awards?



www.aeswave.com