

For Automotive, Marine, Small Engine, **HVAC & Industrial Technicians**

Electronic Specialties, **Incorporated**

- Since 1967 -

OVER 50 years in business!



10 NEW PRODUCTS INSIDE!!!

See first four pages















WWW.ESITEST.COM



Electronic Specialties, Incorporated

- Since 1967 -

NEW **Products!!!**

#149 UNIVERSAL TEST CONNECTOR KIT - 54 Piece

This comprehensive test kit features a wide variety of adapter sets. 149 enables connection to almost every automotive and vehicle connector, both foreign and domestic, including:

Applications: Automotive Heavy Duty Marine RV **Equipment** Agriculture/Off-Road Motorcycle

Flat spade type male/female - several sizes Round terminals male/female Micro 64 terminals - square male/female Micro 64 terminals - round male/female Deutsch terminals - size 14 male/female Deutsch terminals size 16 male/female Deutsch terminals size 20 male/female

New Micro 50 terminals - male/female

Terminal adapters connect via the included 48 inch stacking banana plug test leads. Connection to most DMM's and scopes is no problem. Kit is designed to provide very wide testing coverage and quicken the test process.

Includes:

2.2mm Female Flat Terminal 2 pcs. 2.5mm Female Flat Terminal 2 pcs. 3.0mm Female Flat Terminal 2 pcs. 7.7mm Female Flat Terminal 2 pcs. 3.55mm Female Round Terminal 2 pcs. 4.5 mm Female Round Terminal 2 pcs. 2.2mm Male Round Terminal 2 pcs. 3.55mm Round Terminal 2 pcs. 1.0mm Male Flat Terminal 2 pcs. 1.5mm Male Flat Terminal 2 pcs. 1.8mm Male Flat Terminal 2 pcs. 2.2mm Male Flat Terminal 2 pcs. 2.8mm Male Flat Terminal 2 pcs. 4.8mm Male Flat Terminal 2 pcs. Micro 64 Square Male Terminal 2 pcs. Micro 64 Square Female Terminal 2 pcs. Micro 64 Round Male Terminal 2 pcs. Micro 64 Round Female Terminal 2 pcs. Deutsch size 14 Male Terminal 2 pcs. Deutsch size 14 Female Terminal 2 pcs. Deutsch size 16 Male Terminal 2 pcs. Deutsch size 16 Female Terminal 2 pcs. Deutsch size 20 Male Terminal 2 pcs. Deutsch size 20 Female Terminal 2 pcs.

Micro 50 male terminal 2 pcs. Micro 50 female terminal 2 pcs. 48" Stacking Banana Plug Leads2 pcs. **OUR MOST COMPREHENSIVE KIT** 26 different connectors! Includes 2x of each connector





Electronic Specialties, Incorporated

- Since 1967 -



#1351 16 Pc. Spade Terminal Test Lead Set

FEATURES:

- 7 different sizes of flat/spade type connector terminals
- Tests circuits via fuse panels, distribution box, harness connections & more
- Works with Multimeters and digital oscilloscopes
- Includes 48" stacking banana plug test leads (2 pcs)
- Male spade sizes (2 ea.): 1.0MM, 2.2MM, 2.8MM, 4.8MM
- Female spade sizes (2 ea.); 2.2MM, 3.0MM, 7.7MM
- Storage case included for safe keeping

#182 48V LOADpro Dynamic

Test Leads

NEW 48 VOLT VERSION! Use on 12V to 48V circuits!

LOAD pro[®] Finds these problems FAST!

- High Corrosive Resistance
- Shorts to ground
- Open Circuits

LOAD*pro*® performs voltage drop test with the push of a button. On a 48 Volt system, pressing the switch applies a load of approximately 1 Amps across the circuit. This simple test finds problems in corroded wires/connections and shorts to ground.





Applications:

Automotive Marine Equipment Off-Road Heavy Duty RV Agriculture Motorcycle

#616 Spoon Probe Backprobers

FEATURES:

- Curved probes allows back probing of round electrical connectors, especially weather pack style.
- Another great option for non-intrusive testing
- Tap readings and scope signals without damaging electrical connectors and harnesses
- Connects to standard size 4mm banana plug test leads, such as ES part #142-1
- Max test current 10 Amps





Electronic Specialties, Incorporated

- Since 1967 -

NEW Products!!!

#684 400 Amp DC/AC AUTO-RANGING CLAMP METER

FEATURES:

- Clamp on current measurements up to 400 Amps
- Auto-ranging digital multimeter built-in
- CATIII 600V safety rating, 4000 count LCD Frequency
- Backlit LCD display
- Includes zippered storage case

10 TESTING FUNCTIONS:

- DC Amps
- AC Amps
- DC Volts
- AC Volts
- Ohms
- ContinuityDuty Cycle
- Capacitance Diode Test



#901 CODE BUDDY+ CAN OBD II Code Reader

- Code Buddy+ retrieves both OBDII & manufacturer specific trouble codes & pending codes
- Displays I/M readiness status, retrieves VIN numbers,
 Calibraion ID's and clears codes
- Easy to read, backlit LCD display shows trouble code definitions (no look up table)
- Reads Generic Codes, Pending Codes & Manufacturer Specific Codes
- Multi-lingual English, Spanish, French German & more.



Works on all US, European and Asian vehicles 1996 and newer

#629-10 Ten Foot Test Leads w/Screw-Off Alligator Clips

- Extended length test leads 10 feet long
- · Works with most DMM's in the field
- Alligator clips screw off / on for more secure connection
- Test leads 120" length
- 1000 Volts max CATIII
- Maximum 10 Amps



#619 Wire Piercing Clips

- Tap voltage readings on insulate wires
 no wire stripping
- Pierces wire insulation sized from 22 to 14 awg, sharp needle minimizes insulation damage
- Contact needle is screwed in/out from the bottom







Electronic Specialties, Incorporated

Since 1967 -

NEW Products!!!

#804 EZ Test™ 10 Pc Back Probe Kit

FEATURES:

- 10 piece kit designed for backprobing, diagnostic testing & electrical troubleshooting
- Standard 4mm banana plug, works test kits in the field
- 2 pcs Spoon Probe Backprobers for round connectors (#616)
- 4 pcs of Mini Back Probes/Wire Piercers (#618)
- 2 pcs Flexible Autmotive Back Probe Pins (142-5)
- 2 pcs Shielded Alligator Clips (#143-1)





Applications:
Automotive
Equipment

Heavy Duty Marine Agriculture Off-Road

RV Motorcycle



FEATURES:

- 6 pc Test Probe Kit appropriate for automotive, heavy-duty, marine, equipment, small engine, etc.
- Quality probes will provide trustworthy readings
- Great starter kit, connects to DMM's, digital scopes and most other test equipment
- Includes standard 4mm banana plug test leads (#142-1),
 which connect with most test adapters- all brands
- Max test current 10 Amps
- Includes: #142-1, #142-4, #142-6 and Storage Case







MODEL #180 LOADpro® Dynamic Test Leads

LOADpro® Finds these problems FAST!

• High Corrosive Resistance

Shorts to ground

Open Circuits

LOADpro® performs voltage drop test with the push of a button. On a 12 Volt system, pressing the switch applies a load of approximately .5 Amps across the circuit. This simple test finds problems in corroded wires & connections and shorts to ground. Watch our video and you'll spend less time diagnosing wiring problems. Start doing voltage drops now! Diagnose faster and earn more \$\$\$. Works with your existing DMM.

BONUS KIT! #181 LOADpro Bundle

includes #180 & #182



LOAD pro[®] features Steady Pin probe tips. Instead of a pointed probe, SteadyPin tips have a small recess at the tip that allows the probe to sit firmly on a male ECM or connector pin. Traditional pointed probes fail to

give an effective connection and creates difficulties in completing manufacturer specific voltmeter tests.

SteadyPin Probe Tips

#182 Fundamental Electrical Troubleshooting

#184 Fundamental Electrical Troubleshooting - Spanish

200 pg. guide to every aspect of electrical troubleshooting...written by a mechanic, easy to read.

- Batteries/Testing explained Relays, potentiometers, resistors, solenoids
- Voltmeters explained Corrosion causes
- · Finding shorts to ground
- Voltage drop explained
- · Battery draws explained

PATENTED

How-to-read schematics

#230 Short Buddy® - Audible Trouble Shooter

SHORT BUDDY® Helps you find these problems!

Locating Shorts To Ground

• Intermittent shorts

Intermittents caused by loose connections

Blowing Fuses?? Short Buddy helps you find the short! This unique tool connects at the fuse panel and becomes in series with the test circuit. A system of audible beeps helps you find the problem and permit hands free troubleshooting. Have a dead short? Short Buddy gives you continuous re-set/re-power capability, a real time saver. While you wiggle, pull, and grab wires, Short Buddy is always watching the current level. If your tug causes the dead short again, Short Buddy opens the circuit for 10 seconds, then re-applies power to the circuit.

Another big feature! If the circuit current changes by more than approximately .3 Amps, you'll hear an audible beep.

If you pull on the "problem" wire or connector, you'll hear the beep. When working under the dash or in a difficult area this is a huge help. Great tool for shorts, intermittent drop outs and flaky grounds & connections. A real time saver.

- Settable Amp Levels of 10, 15, 20, 25 and 30 Amps
- Automatically opens the circuit in the event of overload
- Specifications: In Auto mode, circuit gets re-powered in 10 seconds
 - In Manual mode, user re-sets power to circuit

SEE WWW.ESITEST.COM FOR FULL SPECIFICATIONS **AND TEST RANGES!**



Fundamental Electrical

Troubleshooting

Applications: Automotive Heavy Duty

Marine **Equipment** RV



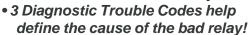
Diagnostic Relay Buddy® - 12/24V Relay Tester

PATENTED

#192 Diagnostic Relay Buddy 12/24

#193 Diagnostic Relay Buddy 12/24 PRO TEST KIT (includes 190-4 & 190-5)





- Quick off-the-car relay tester
- Checks relay coil & switch contacts - Fails bad relays!
- Automatic test with Good/Bad indication
- Available as stand alone #192 and in kit form #193 with 5 adapters for expanded testing



Specifications:

- Tests 12V & 24V relays Settable to 4 and 5 pin relay
- 3 Diagnostic Trouble Codes Uses vehicle 12V battery for power
- Switch contact are loaded to detect excessive resistance
- Green Light if relay is good Red Light if relay is bad + one of 3 possible trouble codes

#190 Relay Buddy® - Original Relay Buddy,

tests 12V relays - Green Light - relay



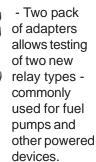




#190-4 Shielded Relay Adapters

- Three pack of adapters allows testing of shielded relays...same 3 relays tested by Relay Buddy.

#190-5 New **Relay Adapters**



#190-8 MAXI **Relay Adapter**



NEW PRODUCT!

Relay Buddy operates the relay several times during each test session as it watches for consistency in every cycle. Relay Buddy will fail the relay and light the RED LED if any of the cycles proves unsuccessful during the test session.

#191 Relay Buddy® PRO Test Kit



- Pro Test Kit includes Relay Buddy tester and 5 test adapters (190-4 &190-5) for expanded coverage

MODEL #903 Code Buddy PRO

- OBDII Code Scanner w/Live Data & Diagnostic Monitors

· OBDII CODE SCANNER all protocols including CAN

- · Displays trouble codes and definitions · Reads LIVE DATA STREAM
- · Reads diagnostic monitor test data Mode \$06
- · Views FREEZE FRAME DATA
- · Retrieves vehicle information (VIN, CIN & CVN)
- · Displays O2 sensor test data
- · Clears codes, turns off MIL and resets monitors
- · Displays I/M readiness
- · Built-in OBDII fault code lookup library
- · Reads Hard, Pending & Historic codes
- · Retrieve Vehicle Information VIN NUMBER & **CALIBRATION ID**

· Determines the cause of the Check Engine Light (MIL)

Works with all 1996 and later OBDII compliant US, European and Asian vehicles

Multi-Lingual English/Spanish/French/German/Dutch



GO WITH FISH FOR QUALITY TEST INSTRUMENTS

#688 PREMIUM TRUE RMS CLAMP METER

We've greatly improved the zero drift on the low DC amps function along with enlarging the clamp size to accomodate larger ground cables. The significant amount of feedback from our end user customers has contributed greatly in building this premium low current clamp meter. Great tool for parasitic drain testing accurate down to 1 mA. These features will be unmatched, absolute top quality instrument!

- .75 inch (19mm) clamp size Continuity Beep
- **Analog Bargraph**
- Built-in TemperatureF/C
- Peak Min/Max Min/Max
- Backlit 5000 count LCD True RMS accuracy
- **CATIII 600 Volts**
- Carrying Case included

TEST RANGES:

0-5000mA, 80A AC Amps: 0-5000mA, 80A

DC Volts: 0-500mV, 5V, 50V, 500V, 600V 0-500mV, 5V, 50V, 500V, 600V 0-500, 5K, 50K, 500K, 5M, 50M 0-50nF, 500nF, 5uF, 50uF, 500uF, 5mF Ohms: Capacitance:

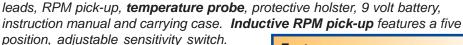
10-100kHz AC Frequency:

-4F to 1400F, -20C to 760C Temperature:

Audible Beep Diode Test: Diode Test

MODEL #585K DELUXE AUTOMOTIVE METER

#585K is a professional grade DMM used for diagnosing electrical, computer and engine problems on any vehicle. Our best selling meter, #585K is auto-ranging on DC Volts, AC Volts and Ohms. The kit includes two sets of test







MODEL #585K **INCLUDES CARRYING** CASE

TEST RANGES: 0-320mV, 3.2V, 32V, 320V, 1000V DC Volts 0-3.2V, 32V, 320V, 1000V 0-320uA. 3.2mA. 32mA. 320mA. 10A DC Amps AC Amps 0-320uA, 3.2mA, 32mA, 320mA, 10A 0-320, 3.2K, 32K, 320K, 3.2M, 32M

RPM 2/DIS 0-3200 RPM, 6,000 RPM x 10

2 cyl, 3 cyl, 4 cyl, 5 cyl, **Duty Cycle**

1.0%-90% 0-320Hz, 3200Hz, 32kHz -20C to 320C, -20C to 750C -4F to 320F, -4F to 1400F

Continuity Audible Beep

MODEL #TMX-589 TECH METER KIT







45 Test Ranges, 14 Test Functions **RPM for DIS & standard ignitions** Dual display w/analog bargraph

and digital readings **Built-in temperature readings** RPM pick-up & temperature

10 Meg/Ohm Input Impedance

probe included

Built-in tilt stand 9V battery installed

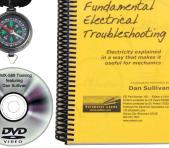
Dual fuse protection

Safety leads & jacks









DC Amps: AC Amps: Ohms: Capacitance Frequency:

0-400mV, 4V, 40V, 400V, 1000V AC Volts: 0-400uA, 4000uA, 40mA, 400mA, 10A 0-400uA, 4000uA, 40mA, 400mA, 10A 0-400, 4K, 40K, 400K, 4M, 40M 0-40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF 0-4Hz, 40Hz, 400Hz, 40kHz, 400kHz, 10MHz

0-400mV, 4V, 40V, 400V, 1000V

Temp

Type K Temp: IR Temp: -4F to 1400F, -20C to 760C -22F to 1022F, -30C to 550C Audible Beep Continuity:

Diode Test: Diode Test Audible Continuity:

Peak Min/Max: 1 mS (1000 samples per second) Min/Max: Min-Max @ normal sample rate (2 per sec)

Auto Power Off: 30 minutes

Shock/Drop Test: 6.5 Feet (2 meters)

HYBRID

TECH METER KIT - Techs want more information! With TMX-589, you get it! One hour of DVD training showing how to use and get the best results from your investment. You spoke, we listened!

INCLUDES: TMX-589 - True RMS Digital Mulitmeter - CATIII 1000V safety - Waterproof/Dustproof to IP67 Standards LOAD pro - Loads the circuit to find corrosion and resistance in the wiring - fast diagnosis - OEM approved tool - patented FET Book - 200 pgs of Fundamental Electrical Troubleshooting tips and insight. A must have for any technician! Training DVD - One hour of multimeter training and testing tips - 10 separate videos by Dan Sullivan - leading trainer Compass - Used for Alternator and solenoid diagnostics

Bryan Lewis (2 time super tech champ) ~ "No matter what skill level you have, this kit will build your confidence and provide an easier way to diagnose electrical circuits without piercing wires"

GO WITH FS FOR QUALITY TEST INSTRUMENTS



#595 PRO AUTOMOTIVE METER W/PC INTERFACE

#595 features a **huge LCD display with bargraph** for easy viewing. It can be **interfaced to your PC or notebook** computer for data useage.

Features:

- CAT III 1000 Volt rated safe to use w/Hybrids
- 58 Test Ranges, 16 Test Functions
- Huge Backlit LCD display w/analog bargraph
- Ms Pulse Width for fuel injector on-time
- Max/Min better diagnostic capability
- 4 Step adjustable trigger levels
- USB PC Interface cord included
- Desirable 20 Amp fused test range
- Hard Storage Case for safe storage

SEE WEB PAGE FOR FULL SPECIFICATIONS AND TEST RANGES!

595 PC Interface test screen

MODEL #597IR PREMIUM AUTOMOTIVE METER (#597 No IR Thermometer)

Our premium automotive DMM. Two models available - #597IR includes IR Thermometer and #597 is without IR thermometer. #597 is equipped for advanced automotive diagnostics. #597 is <u>CAT III 1000 Volt safety rated</u> & waterproof to IP67 standards. #597IR includes EST-100 IR Thermometer Adapter.

Features:

- CAT III 1000 Volt rated safe to use w/Hybrids
- Waterproof to IP67 standards
- 48 Test Ranges, 18 Test Functions
- EST-100 IR Thermometer w/8:1 distance ratio
- Backlit LCD display with analog bargraph
- 1 Ms Peak Min/Max function for glitch capture
- Ms Pulse Width for fuel injector on-time
- Desirable 20 Amp Fused Test Range
- Also measures temp via K-type probe

Peak Min/Max function
measures transient voltages
as fast as 1 Millisecond. #597
features a desirable
20 Amp test
range.

Blow Mold
Storage Case
Included



HYBRID

SAFE!

Blow Mold

Storage Case
Included



#590 PROFESSIONAL AUTOMOTIVE DMM

Another good choice for the professional automotive technician, #590 puts the right

capabilities in your hands.
For example, #590 tests the
on-time of fuel injectors using
the Ms pulse width test function.
This DMM is completely
auto-ranging, making it an

easy and efficient tool to use.

Zippered Storage Case Included

SEE WEB PAGE FOR FULL SPECIFICATIONS AND TEST RANGES!

Features:

- 48 Test Ranges, 15 Test Functions
- Auto-ranging
- Modern design, protective rubber boot and case are all one piece
- Huge 2 inch high LCD display with backlighting, easy to see digits!
- Ms Pulse Width for fuel injector on-time
- Desirable 20 Amp fused test range
- Auto Power-Off, saves batteries
- Relative change function, Data Hold
- Built-in Temperature readings
- Includes zippered storage case

#582 DELUXE DMM WITH AMP SHUTTERS - new!

Features:

- 33 Test Ranges, 11 Test Functions
- Huge 2 Inch LCD great visibility
- Amp shutters prevent blown fuses
- Backlit display for use in dark areas
 Measures Temp in both F and C, temp probe included
- 10 Meg/Ohm Input Impedance
- Desireable 20 Amp test range
- Dual fuse protection
- Safety leads & jacks
- Built-in tilt stand, 9V battery installed

Professional grade DMM - manual ranging style. Features innovative amp shutters which prevent mistaken operation, ensuring safer useage and less blown fuses. A dangerous condition can exist if a DMM is left on Amps test function, then grabbed some time later and used to measure high voltage. The amp shutters on #582 prevent this from happening. All around great DMM with desired 20 Amp test range. Kit includes zippered carrying case,

test leads, **temp probe** instructions and 9 volt battery.

Zippered Storage Case Included

SEE WEB PAGE FOR FULL SPECIFICATIONS AND TEST RANGES!



GO WITH FOR QUALITY TEST INSTRUMENTS



#485 SELF CALIBRATING TRUE RMS DMM w/1 hour DVD



• Patented Self Calibration Function • Includes 1 Hour Training DVD by Dan Sullivan

This self-calibrating DMM leverages new technology via the use of high stability, low temperature coefficient resistors in the resistors network. With **self-calibration**, DMM accuracy can endure for longer periods of time. A self-calibration multimeter is an undoubtedly **more accurate, more reliable** measurement tool. Just press the button to CALIBRATE. Unit includes DVD with an hour of first class training by Dan Sullivan, DMM guru. **10 different videos**, one for each major function on the DMM - we show you how to use it!



Sullivan Troubleshooting System

Features:

- True RMS accuracy on AC Volts and Amps
- 43 Test Ranges, 11 Test Functions
- 1 Hour TRAINING DVD by Dan Sullivan
- 6000 Count LCD, w/extended backlighting
- Built-in Temperature F/C
- Relative Change, Data Hold, Auto Power-Off
- Measures temp via K-type probe
- Auto & Manual Ranging
- **Zippered Carrying Case Included**

TEST RANGES:

AC Amps

DC Volts: 0-60mV, 600mV, 6V, 60V, 600V
AC Volts: 0-60mV, 600mV, 6V, 60V, 600V
DC Amps: 0-600uA, 6000uA, 60mA, 600mA,

6A, 10A : 0-600uA, 6000uA, 60mA, 600mA, 6A, 10A

Ohms: 0-600, 6K, 60K, 60K, 60K, 6M, 600M Capacitance: 0-10nF, 100nF, 1uF, 10uF, 100uF 40mF, 100mF

40mF, 100mF

Duty Cycle: 0.1 ~ 99.9%

Frequency: 9.99Hz - 10MHz

Type K Temp: -58F to 1400F, 302F to 1292F

-50C to 150C, 150C to 700C

Continuity: Audible Beep Diode Test: Diode Test

#480A AUTO-RANGING DMM

#501 DIGITAL MINI MULTIMETER



High precision Auto-ranging DMM that can help you troubleshoot all types of electrical problems. Includes test leads, protective holster, instruction manual and two AA batteries.

Features

- 43 Test Ranges, Auto-Ranging
- 10 Test Functions
- Auto Power-Off, Data Hold
- Dual Fuse Protection
- 10 Meg/Ohm Input Impedance



This is an economical **DMM** that can't be beat. #501 has the **capabilities of full range units**. Its low price will surprise you! Includes test leads, **holster**, instructions & installed battery.

Features:

- 16 Test Ranges, 6 Functions
- Fuse protected
- Removable Test Leads
- Protective Holster Included
- Safety leads & jacks

SEE WEB PAGE FOR FULL SPECIFICATIONS AND TEST RANGES!

#385A ENGINE ANALYZER/DMM

#385A has many of the necessary features required for today's automotive diagnostics. Use frequency readings to test crankshaft and camshaft sensors, for example. The #385A comes equipped with an RPM pick-up, probe test leads, alligator clip test leads, protective holster, instructions and installed 9V battery. Inductive RPM pick-up features a five position, adjustable sensitivity switch.

Features:

- 25 Test Ranges, 9 Test Functions
- Easy RPM readings
- Inductive RPM pick-up included
- 10 Meg/Ohm Input Impedance
- Dual Fuse Protection
 Built-in tilt stand
- 10 Meg/Ohm Input Impedance



SEE WWW.ESITEST.COM FOR FULL SPECIFICATIONS AND TEST RANGES!



#380 DIGITAL MULTIMETER



#380 has the compact design & the functions you need for overall convenience. Its capabilities are equal to many higher priced DMM's. Comes with test leads, protective holster, instructions and installed 9 volt battery.

Features:

- 20 Test Ranges, 7 Test Functions
- 10 Amp test range
- Continuity beeper
- Fully fuse protected
- 10 Meg/Ohm impedance



SEE WEB PAGE FOR FULL SPECIFICATIONS AND TEST RANGES!

GO WITH FES FOR QUALITY TEST INSTRUMENTS



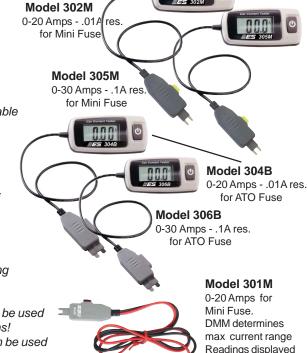
Model 309 Fuse Buddy Mini Kit



Guess what? There is a new fuse size called "Micro". There are now three fuses commonly in use, ATO, Mini and new Micro. This kit includes 306B (ATO), with adapters for testing Mini and Micro. 309 Mini Kit includes a clear storage pouch to keep the small fittings in order.

- Tests all three fuse sizes: Micro. Mini & ATO
- Plug in Fuse Buddy and read circuit amp draws
- Easy test connection into fused circuits
- Can be used on circuits up to 30 Amps
- Resolution 0.1 Amps

- Can test circuit current up to 20 OR 30 Amps - an easy way to check fuel pump amperage.
- Clever design allows easy connection into fuse sockets.
- FUSE BUDDY's are available as a stand alone Tester or DMM Adapter, for both Mini & ATO fuses (also Micro, see 309)
- Fuse Buddy ends are molded into the shape of the fuse itself.
- During testing the fuse is removed and replaced into the Fuse Buddy. This way, the circuit being tested maintains fuse protection.
- #302M & #304B can even be used to test for parasitic drains!
- #305M, #306B & #309 can be used to test blower motors!





on DMM or scope.

Model 303B 0-20 Amps for ATO Fuse. DMM determines max current range Readings displayed on DMM or scope.



#310 FUSE BUDDY® PRO TEST KIT

THREE TESTERS IN ONE!! 3 interchangeable test functions.

- 1) 30 Amp MINI Circuit Amperage Testing
- 2) 30 Amp ATO Circuit Amperage Testing
- 3) 30 Amp All Purpose Amperage Testing

310 Fuse Buddy Pro can read circuit amp draws on both ATO & Mini fused circuits up to 30 Amps. As an added bonus, the Fuse Buddy Pro can be used as an all purpose amp meter with the included 30A test clips.

- Check blower motor, fuel pump & A/C Compressor amperage draws
- Installing an auto-resetting circuit breaker allows you to check for intermittant shorts and monitor the current draw at the same time
- Features ANALOG BAR GRAPH, DATA HOLD and AUTO POWER-OFF
- Range: 0-30 Amps Resolution: .1A (100 mA) Accuracy: ±2% of reading





MODEL #315 MAX FUSE BUDDY® KIT

Max Fuse Buddy can test up to 80 AMPS on MAXI circuits. There are numerous Heavy Duty & Automotive applications. With supplied adapters, #315 can also work with MINI and ATO circuits. Top 20 Tool Winner in 2009!

- Can measure up to 80 Amps DC on MAXI, MINI & ATO fused circuits
- MAX FUSE BUDDY test applications include:
- Anti-Lock Brake Circuits
- · Car Stereo Circuits
- Branch Power Circuits
- Rear Window Defogger Circuits
- Heavy Duty Equipment Ciruits Fire Engine Water Pumps
- Unit features PEAK HOLD and DATA HOLD functions
- Deluxe LCD display features full ANALOG BAR GRAPH
 - Resolution: .1A (100 mA) Accuracy: +2% of reading
 - Measurement range: 0 to 80 Amps / 48 Volts DC



GO WITH **ES** FOR QUA

MODEL #307, #308 & new #312 FUSE BUDDY® CURRENT LOOPS

- Great accessory for any current probe or automotive scope
- Just clamp your current probe over the loop to access the amperage draw through a fused circuit.
- Easy testing access, plugs right into fuse socket, no more hand made adapters.
- Testing range 0-30 Amps Do Not Exceed 30 Amps
- Can be used to diagnose a variety of amp draw problems including:
 - Fuel Pumps Battery Drains Blower Motors Shorts





New #312 Kit Includes Adapters for new Micro Fuses, plus Mini....this works on all three fuse types, Micro, Mini & ATO Includes Storage Pouch!



312 Kit

MODEL #655 HIGH CURRENT PROBE/DMM

Another great tool for all around electrical troubleshooting.

#655 is ideal for all high current applications, especially **starting and charging diagnostics**. #655 can measure up to 1000 Amps AC or DC. Unit features built-in degrees F and C temperature readings. Includes test leads, temp probe, instructions, 9V battery and carrying case.

Features:

- 37 Test Ranges
- **10 Test Functions**
- **Auto Power Off**
- **Auto-Ranging, Data Hold** Temp probe included
- Continuity Beep
- Overload Protection
- Clamp opening 1.5 inches
- Test Leads Included Carrying Case included

0-40A, 400A, 1000A 0-40A, 400A, 1000A DC Amps AC Amps 0-400mV, 4V, 40V, 400V, 600V 0-400mV, 4V, 40V, 400V, 600V **AC Volts**

0-400, 4k, 40k, 400k, 4M, 40M 0-5Hz, 50Hz, 500Hz, 5kHz, Frequency 50kHz, 100kHz

-4F to 1832F & -20C to 1000C **Duty Cycle** 0-.5%-99.0% Audible Beep

IES 3

0-40nF, 400nF, 4uF, 40uF, 100uF

MODEL #685 CURRENT PROBE/DMM

The #685 is a great tool for all purpose electrical testing. Applications include: fuel injection systems, fuel pumps, charging systems, electric motors, and most parasitic drains. Capable of measuring as low as 10 milliamps!

Features:

- 35 Test Ranges
- 10 Test Functions
- **Auto Power Off**
- **Auto-Ranging Data Hold**
- Continuity Beep
- Overload Protection

Continuity

- Clamp opening 7/8 inches 9 Volt Battery Included
- Carrying Case included



TEST RANGES:

DC Amps 0-40A, 200A AC Amps DC Volts AC Volts

0-40A, 200A 0-40A, 200A 0-400mV, 4V, 40V, 400V, 600V 0-4V, 40V, 400V, 600V 0-400, 4k, 40k, 400k, 4M, 40M 0-10Hz, 100Hz, 1000Hz, 10kHz, 100kHz, 1000kHz, 10MHz

Duty Cycle Continuity

Ohms

0-4nF, 40nF, 400nF, 4uF, 200uF 0-.5%-99.0% Diode Test Audible Beep

MODEL #687 LOW CURRENT PROBE/DMM

With the capability of measuring down to 1 milliamp (.001A), the #687 is a great tool for all low current applications. Especially for diagnosing parasitic drains!

Clamp opening is large enough

to fit over most negative battery cables.

Applications: fuel injectors, fuel pumps, electric motors, battery drains, charging systems.

Features:

- 35 Test Ranges
- **Auto Power Off Auto-Ranging**

Data Hold

- **10 Test Functions**
- Continuity Beep
- Overload Protection Clamp opening 1/2 inches
 - 9 Volt Battery Included
 - Carrying Case included

TEST RANGES:

DC Amps 0-4A, 80A AC Amps 0-4A, 80A DC Volts

0-400mV, 4V, 40V, 400V, 600V AC Volts 0-400mV, 4V, 40V, 400V, 600V 0-400, 4k, 40k, 400k, 4M, 40M 0-5Hz, 50Hz, 500Hz, 5kHz, Frequency

50kHz, 500kHz 5MHz, 10MHz 0-40nF, 400nF, 4uF

40uF, 100uF **Duty Cycle** 0-5%-99.0% **Diode Test** Continuity Audible Been



WITH**EES** FOR QUALITY TEST INSTRUMENT



MODEL #695 LOW CURRENT PROBE FOR GRAPHING METERS, SCOPES & DMM's

Great tool for accurate measurement of low current. Works with your graphing meter or lab scope to view current waveforms on fuel injectors, fuel pumps, primary ignition coils and more. Also works well with digital multimeters. Resolution of 10 milliamps is low enough for most parasitic drain testing. Clamp opening of 1/2 inch is large enough to clamp over most negative battery cables for those parasitic drain tests.

TEST RANGES:

DC Amps 0-20A, 80A (resolution .01A) 0-20A, 80A (resolution .01A)

Features:

- Compatible with many lab scopes and graphing multimeters
- Use to generate current waveforms for diagnostic analysis
- Enhances the capabiltiy of your digital multimeter
- Jaw opening of 1/2 inch clamps over most negative battery cables
- Low battery indication, Auto Power-Off

MODEL #697 CURRENT PROBE - 400 AMPS

Use this instrument to test starting and charging systems. It can even be used to test relative compression when used with your lab scope or graphing meter. Unit is designed for use with digital multimeters, lab scopes or graphing meters. Output of the probe is 1mV/Amp.

Features:

- Great tool for testing starting and charging systems
- One touch zero adjust and low battery indication
- Works with digital multimeters, scopes or graphing meters
- High current measuring capability, up to 400 Amps AC/DC Unit also features Auto Power-Off saves batteries

TEST RANGES:

0-40, 400A (resolution .1A) AC Amps 0-40, 400A (resolution .1A)



#698 HIGH CURRENT PROBE - 1000 AMPS

Unit is designed for use with digital multimeters, lab scopes or graphing meters. Ideal unit for high current applications like heavy duty starting and charging systems.

- Measures 0 to 1000 Amps DC or AC
- Great tool for testing starting & charging systems
- Jaw opening is 2.125 inches
- Zero Adjust Knob
- **Zippered Carrying Case Included**

TEST RANGES:

0-600A, 1000A (resolution .1A) 0-600A, 1000A (resolution .1A)

Features:

Read peak volts on CD ignition coils with your existing DMM

MODEL #640 D.V.A. ADAPTOR

- Adapts standard digital multimeter into peak reading voltmeter
- **OEM tool for several outboard** engine manufacturers
- Fits most DMM's

MODEL #530 D.V.A. /PEAK READING MULTIMETER

#530 was designed in conjunction with the industry's leading outboard engine manufacturers. The #530 is used to diagnose problems in CD (capacitive discharge) ignition systems. An essential tool for the professional marine service TEST RANGES: technician.

DVA Volts DC Volts AC Volts

0-2V, 20V, 40V, 200V, 400V 0-2V, 20V, 40V, 200V, 400V 0-20V, 40V, 200V, 400V 0-10A

DC Amps x1, x10, x100, x1000

Features:

- Analog multimeter with peak reading capability
- Fuse protected and includes a spare fuse
- Complete with battery and storage case
- Use to diagnose defective CD ignition coils



Y TEST INSTRU WITH **S** FOR QUALIT

MODEL #146 54 Piece AUTOMOTIVE TEST CONNECTOR KIT

This comprehensive test kit features a variety of terminal adapter sets which enable connection to most automotive vehicle connectors, both foreign and domestic. Terminal adapters connect via the included 48 inch stacking banana plug test leads. Connection to most DMM's and scopes is no problem. Kit is designed to provide wide testing coverage and quicken the test process.

Includes:

- 2.7mm Female Flat Terminal 4 pcs.
- 3.0mm Female Flat Terminal 4 pcs.
- 3.2mm Female Flat Terminal 4 pcs.
- 7.7mm Female Flat Terminal 4 pcs.
- 3.55mm Female Round Terminal 4 pcs.
- 2.2mm Male Round Terminal 4 pcs.
- 3.55mm Round Terminal 4 pcs.
- 1.0mm Male Flat Terminal 4 pcs.
- 1.5mm Male Flat Terminal 4 pcs.
- 1.8mm Male Flat Terminal 4 pcs.
- 2.2mm Male Flat Terminal 4 pcs.
- 2.8mm Male Flat Terminal 4 pcs.
- 4.8mm Male Flat Terminal 4 pcs. 48" Stacking Banana Plug Leads 2 pcs.





7.7mm Female Flat Terminal







MODEL #147 18 Piece MICRO 64 TEST CONNECTOR KIT - new!

Test connector kit featuring a variety of terminal adapter sets which enable connection to Micro64 terminals - primarily found on GM & Benz vehicles as well as some EU/Asian/Domestic vehicles. Adapters connect via the included 48 inch stacking banana plug test leads. Connection to most DMM's and scopes is no problem. Kit is designed to provide a quality & secure test connection while quickening the test process. Square Terminal -

Includes:

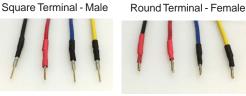
Square Micro64 Terminal, Female - (4) Square Micro64 Terminal, Male - (4) Round Micro64 Terminal, Female -(4) Round Micro64 Terminal, Male - (4)

48" Stacking Banana Plug Leads - 2 pcs.



Round Terminal - Male





SEE WWW.ESITEST.COM FOR FULL SPECIFICATIONS AND TEST RANGES!

#148 14 Piece Deutsch TEST CONNECTOR KIT - new!

This test kit features a variety of Deutsch style terminal connector sets. Deutsch connectors are found in agricultural, construction, automotive, motorcycles and industrial applications.

Proper fitting and electrical connection are critical to attaining valid test results. This kit was designed to provide a quality test connection, while quickening the process. Stacking banana plug test leads (included) allow testing of live circuits.

Included are three different size connector sets, with both male and female fittings. Connection to testing instruments is made via the included 48 inch stacking banana plug test leads.

Size 14-16 AWG connector, Female - 2 pcs. Size 14-16 AWG connector, Male - 2 pcs. Size 16-18 AWG connector Female - 2 pcs. Size 16-18 AWG connector Male - 2 pcs. Size 20-24 AWG connector Female - 2 pcs. Size 20-24 AWG connector Male - 2 pcs. 48" Stacking Banana Plug Leads2 pcs.



#618 Mini Back Probes/Wire Piercers

#629 Test Leads w/Screw off Alligator clips



- Great for backprobing weather pack style connectors
- Handy for piercing & tapping readings on smaller gauge wires - using included probe adapters
- Can be used with #142-1
- Set includes four probes red, black, green, yellow

 Works with most DMM's in the field

- Alligator clips screw off / on for more secure connection
- Test leads 48" length
- 1000 Volts max CATIII
- Maximum 10 Amps

#142-1 Interconnect Test Leads



- Connects with numerous test adapters
- Length 64 inches **CATIII 1000V**
- Terminates with straight female banana plug standard 4mm

#142-2 Bed of Nails Test Clips

- Great for tapping live readings
- Compatible w/many test lead kits
- Can be used with 142-1 test leads

#142-4 Crocodile Clips

- Large size clips to battery post
- Compatible w/many test lead kits

- Use w/ #142-1- CATIII 1000V

#134 FUSE LEAD Automotive Test Leads



- ATC Fuse Holder In-Line
- Provides extra overload protection
- Can prevent your DMM's internal fuse from blowing

#142-3 Heavy Duty Insulation Piercing Probes

MODEL #142 PRO Automotive Test Lead Kit



- Works with most test lead kits & DMM's
- High quality probes
- 1000 Volts max CATIII
- Maximum 5 Amps
- Includes 2 clips
- Compare to Pomona 5913!
- Can be used with 142-1

MODEL #143 Automotive Test Lead Kit

Test Lead Kit includes our basic set of interchangeable specialty test probes designed for automotive use. The flexible back probing pins are great for sliding into automotive connectors like those on fuel injectors and MAP sensors. Roll up storage pouch included. Includes: · One set of

PRO Test Lead Kit includes an assortment of our highest quality specialty test probes designed for

The bed of nails set gives a great deal of flexibility to clamp to test point or pierce the wire insulation. Large

automotive use.

Crocodile Clips are good for clipping to grounds and battery posts. Roll

up storage pouch included. Includes:

- One set of Interconnect Leads length 64"
- Test Probes • Flexible Silicon Back Probe Pins
- Bed of Nails Type Wire Piercing Clips
- Heavy Duty Insulation Piercing Clips
- Large Crocodile Clips Deluxe roll-up Storage Pouch

- Interconnect Leads - length 64 inches
- Test Probes
- Flexible Silicon Back Probe Pins
- Shielded Alligator Clips
- Large Crocodile Clips • Deluxe roll-up Storage Pouch

Flexible 1.5 inch silicon pins provide easy back probing connections for DMM and Scope measurements

- Great for back-probing harness connectors and automotive sensors
- Flexible silicon bends for difficult areas Can be used up to 30 Volts
- Connects to test leads w/removable ends- Can be used with 142-1 test leads Length 3.75 inches



#142-5 Automotive Back Probe Pins



#146-P Stacking Banana Plug Test Leads

#635 CATIII Automotive Test Lead Set





- High Quality IEC Saftey Rating of CATIII 1000V
- Safe for use on Hybrids & Electric Vehicles
- 6 Piece Set Rated for 10 Amps
- Set includes two Premium Test Probes, two Large Crocodile Clips & Two Test Leads with straight banana jacks
- Test leads 52"

Operational

Overview Video

• Works with most DMM's in the field

- Stackable 3-way banana plug test lead
- High flexibility wire 48 inches length • Use with numerous test adapters

#165 Starter Buddy®

Starter Buddy Diagnoses: • Starter & Solenoid • Positive Cable Negative Cable • Battery (under load)

Starter Buddy tests the health of the vehicle's electrical starting/cranking circuit. Slow cranks & no cranks are most likely caused by excessive voltage drops (resistance). If excessive resistance exists, Starter Buddy will help you quickly locate and diagnose which part of the circuit has the issue. Just 3 connections and a 3 second cranking test diagnose the problem. 12 foot test leads allow safe connections and control of the cranking test from the driver's seat.

Starter Buddy includes a training DVD with three 15 min videos.

Specifications: - Tests 12 and 24 volt systems - Uses vehicle battery for power

- Includes training DVD - Includes Zippered Carrying Case - Made in USA!

#130 SELF-POWERED INDUCTIVETIMING LIGHT

#125 DIGITAL TACH/ADVANCE TIMING LIGHT

• Professional 12V Timing Light with High Visibility LED display

• Very bright display indicates: Tach (RPM) - Degrees Advance

• Brilliant Xenon flash at all speed - Detachable/replaceable cables

• Measures ignition spark advance from 0-90 degrees

• 2 & 4 Stroke Tach reads engine speed up to 9,999 RPM



The original battery powered timing light, built with quality to last.

There's no need to connect to a 12 volt battery for power. Unit is powered by two "D" cell flashlight

batteries. Great tool for marine, snowmobile, industrial, racing engines and other small engine timing. Don't

Features:

accept a copy. Made in USA!

#112 CHROME ADVANCE TIMING LIGHT

Chrome timing light built for heavy duty use. The timing advance function allows precise tuning and diagnostic work.

Accurate up to at least 14,000 RPM

Standard lead length 4 feet

For 2 or 4 cycle engines, all ignition systems Protective sleeve withstands high temps (1200F)

Available with 10, 20, 30, 40 or 50 ft. lead lengths

Bright flash at all speeds • Batteries included

- Xenon flash tube & focused fresnel len combines for brilliant flash
- Measures ignition spark advance from 0-70 degrees
- 12 volt DC operation reverse polarity protection
- Accurate up to 8,000 RPM
- · Removable/replaceable lead set
- Field replaceable flash tube

#150 INDUCTIVE TIMING LIGHT

- · Precision focussed flash tube
- · Removable/replaceable cable set
- · 12 volt DC operation reverse polarity protection
- For all 12V ignitions systems
- Accurate up to 8,000 RPM
- · Field replaceable flash tube

Hard working timing light accurate up to 8,000 RPM. Bright flash. Break and shock resistant housing.



#162 DIGITAL TIRE PRESSURE GUAGE

- Digital tire pressure readings!
- Reads in PSI, KPa & Bar
- Backlit LCD display
- Built-in LED Flashlight

Res: 0.1 PSI - 0.01 Bar - 1 KPa

- Measurement range:
- 5 to 100 PSI
- 0.4 to 6.80 Bar
- 35 to 680 KPa

Uses (2) "AAA" Batteries





#EST-75 HIGH TEMP IR THERMOMETER - PRO MODEL



- Long distance to spot ratio of 12 to 1
- Zippered carrying case included

Temperature Range: -58° to 1832°F & (-50° to 1000°C)

Accuracy: ±1.5% of reading

Distance to Spot Ratio: 12 to 1

Carrying Case & 9 Volt Battery Included



Interface to your Multimeter Temperature range:

-22° to 1022°F (-30° to 550°C)

Accuracy: ±2% of reading

Distance to Spot Ratio: 8 to 1



#703 COMPRESSION TESTER

Features:

- Tester screws into 14 mm spark plug hole on outboard engines and similar
- Use to check for low compression
- Measures up to 200 Psi or 14 Kgs
- Check for burnt valves, scored cyl's, leaking head gaskets, broken valve springs, rings & damaged pistons

#EST-45 IR THERMOMETER

High temperature range:
 -22° to 932°F (-30° to 500°C)

Accuracy: ±1% of reading

Distance to Spot Ratio: 12 to 1

Emissivity = 0.95

Made in USA!

Requires 2xAA Batteries



#EST-67 TWIN LASER IR THERMOMETER

• Lasers converge at optimal measuring distance Temp Range: -58° to 1022°F (-50° to 500°C)

Distance to Spot Ratio: 12 to 1

- Continuous Max Hold Feature
- Fast response time (150 Ms) for quick work
- High Accuracy Rating of ±1%
- Carrying Case Included

#EST-35 IR THERMOMETER

• Continuous Max Hold Feature

SEE OUR WEB SITE ESITEST.COM FOR FULL

SPECIFICATIONS AND TEST

RANGES!

- Built-in Laser pointer
 Backlit Display
- Data Hold & Auto Power-Off
- Carrying case included
- Front panel controls, not under handle

Temperature Range:

-22° to 500°F/-30° to 260°C

Distance to Spot Ratio: 8 to 1 Resolution: 0.1 °F/°C Basic Accuracy: ±2%



#EST-65 IR THERMOMETER

- High quality construction
- High temperature range: -58° to 1022°F (-50° to 500°C)
- Carrying case included Accuracy: ±2% of reading Distance to Spot Ratio: 8 to 1 Emissivity = 0.95

9 Volt Battery Included

#220 TRAILER BUDDY - 4/5 Pin Flat

- #220 Tests 4 & 5 Pin Flat connector wiring
- #222 Tests 7 Pin Round connector wiring
- Each signal from vehicle emits a unique toneLoud beep can be heard over shop noise
- One person complete test in 60 seconds!
- Just apply brakes, turn signals, running lights, engage reverse and listen.
- #222 also verifies 12 V charging signal as well as trailer brake signal
- Greatly reduces time spent verifying vehicle trailer wiring
- Very simple & easy to use saves time!

#222 TRAILER BUDDY - 7 Pin Round

Lighting Circuits Tested:

- Left Turn Signal
- Right Turn Signal
- Brake
- Running Lights
- Reverse
- 12V Charging (#222)
- Trailer Brake Signal (#222)







#720 DIGITAL BATTERY TESTER

- Tests battery condition using patented dynamic resistance technology
- · Results display actual CCA capacity of battery w/pass/fail diagnosis
- · LED's indicate the following:
- 1. OK
- 2. OK & RECHARGE
- 3. RECHARGE & RETEST
- 4. BAD FAIL
- 5. BAD CELL
- Tester removes surface charge prior to battery test resulting in more accurate results

PATENTED TECHNOLOGY

Specifications:

CCA Test range: 200-1200 CCA State of Health: Actual Battery CCA displayed

Rating Systems: SAE, DIN, EN, IEC & CA(MCA)

Tests Discharged: Down to 1.5 Volts

Temperature Compensation



#725 BATTERY & STARTING/ CHARGING SYSTEM TESTER PATENTED TECHNOLOGY

- 6 & 12 V Battery Tester 12 & 24 V Charging System Tester
- Tests battery condition and the starting/charging system
- Guided test sequence covers battery, cranking volts and charging system
- Charging system test checks the alternator voltage and the AC ripple voltage for bad diodes
- Test results include the State of Health %, State of Charge % and actual CCA capacity
- Diagnosis of battery condition also displayed
- •2 line LCD display in 7 languages
- Tests discharged batteries down to 1.5V

Specfications:

Batteries Tested: 6 and 12 Volt Charging Systems: 12 and 24 Volt

State of Health: Actual Battery CCA and %age
Sate of Charge: Battery Voltage and %age

CCA Test range: 40-2000 CCA
Rating Systems: SAE, DIN, EN, IEC & JIS

Tests Discharged: Down to 1.5 Volts Temperature Compensation



State of Charge Display



State of Health Display

#710 - 500 AMP CARBON PILE LOAD TESTER

The #710 will perform **variable load testing** on 12 volt batteries rated as high as **1000 Cold Cranking Amps**. Use this battery tester to simulate **actual cranking loads**. Also tests alternator charging voltage and relative starter current draw. The #710 features **large dual meters** which display the battery voltage and load current simultaneously during the test.

Features:

- 500 Amp adjustable load carbon pile
- Tests batteries rated as high as 1000 CCA or 160 Amp hour
- 15 second test with audible tone
- Can also test alternators, regulators and starters
- 500 amp side terminal clamps & heavy duty stranded copper cables
- Meters are color coded for simple pass or fail diagnostics
- Includes temperature compensation chart

#706 DIGITAL BATTERY TESTER

Automatic, simply activate the switch once for 10 second 100 Amp load. The #706 also tests charging voltage & relative starter current draw.

Features:

- DIGITAL DISPLAY "OK", "WEAK" or "BAD"
- AUTOMATIC TEST Audible
- beep when test is complete
 Unit indicates "CHG" if the pre-test state of charge is not sufficient for proper battery testing
- 2 Year Warranty. Unique design = longer warranty



#700 BATTERY TESTER

The #700 has an internal loading capacity of 100 amps. It is a great tool for finding batteries that can't stand up to the load of today's automotive accessories. Also tests relative starter current draw and charging voltage.

Features:

- Internal 100 Amp loading capacity
- Tests battery voltage, relative starter current draw, charging voltage and battery condition
- Heavy duty cable and copper plated clamps
- Convenient handle for carrying & hanging with heat protection



GO WITH **SET FOR QUALITY TEST INSTRUMENTS**



#726 BATTERY & ELECTRICAL SYSTEM TESTER W/PRINTER ~ TESTS NEW START/STOP BATTERIES - new!

- · Accurate Battery & Electrical System Tester Programmed test for new Start/Stop Batteries
- 3 Testers in ONE! ~ 1) 6 & 12 Volt Battery Tester + 12V Start/Stop Battery Test
 - 2) 12 & 24 Volt Charging System Tester 3) Alternator-Starting-Charging System Tester

SAE (CCA):

EN:

DIN:

IEC:

JIS:

- Very Wide Testing Range tests batteries sized from 40 to 2,000 CCA
- Built-in Printer print the results for permanent service records
- Removable/Replaceable Cable Set
- · Patented Dynamic Resistance Technology

Tests 4 types of Starting Batteries

- 1. Regular Flooded Lead Acid
- 2. AGM Flat Plate
- 3. AGM Spiral
- 4. VRLA/GEL

Tests 2 types of Start/Stop batteries

- 1. EFB (ENHANCED FLOODED)
- 2. AGM Flat Plate

Backlit LCD Display - easy to read

Includes 2 rolls of printer paper - replacement paper part #726-1

sample test report

40~2,000

40~2,100

25~1,300

30~1,500

Voltmeter range: 1.5V to 30V

Six Language Menu

Uses 4x AA batteries

6.5 Foot Test Cable (80 inches)

INCLUDES BLOW MOLD CASE

Battery Type No.

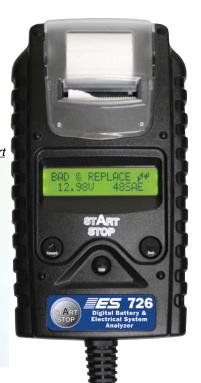
Test batteries in 5 different ratings TEST REPORT BATTERY TEST REGULAR FLOODED SOC: 13.05V RATED: 250SAE MEASURED: 217SAE

GOOD & PASS

STATE OF HEALTH 87% STATE OF CHARGE 100%

CLIENT: TEST DATE:

BY:



#332 PRO LASER TACHOMETER

Safe & accurate measurement of RPM in almost any environment. Just aim the laser beam at a reflective mark placed on a rotating device and the RPM reading is displayed. Measures up to 99,999 RPM in 1 RPM increments. Useful on diesel engines and others where inductive tachs can't be used. Other uses include generators, compressors, industrial engines, fans, gears and more. Zippered case, reflective tape, instructions & 9V battery included.

#333 PRO LASER / CONTACT TACHOMETER

Dual function Laser Photo & ContactTachometer. Photo RPM

measurements are taken w/accessory heads. Zippered case,

3 contact adapters, tape, instructions & 9V battery included.

 High intensity laser beam, detects RPM from up to 6 feet away Memory function saves up to 10 min/max/avg date records

Features:

- TEST RANGE: 0-99,999 RPM
- High intensity laser beam, detects RPM from up to 6 feet away
- Memory function saves maximum and minimum RPM readings
- Reflective tape included

#329 SMALL ENGINE TACH - new!



- **MULTI-FUNCTION** instrument, IP67 Water Proof/Dust Proof, can be mounted permanently on vehicle
- RPM Range: 0 to 20,000 RPM
- MAX RPM: viewable & resettable
- HOUR METER & ENGINE/JOB TIMER TOTAL - records total engine run time JOB - records work related time **SERVICE - reminder for maintnance**
- Includes battery, mounting velcro, battery and instructions
- · For complete specs, see website

#325 EZ-TACH DIGITAL **AUTOMOTIVE TACHOMETER**

Reflective tape and 3 contact accessories included

• RPM(contact)

- **CONTACT MEASUREMENT MODES:**
 - Frequency(Hz)

0-99,999 RPM - 12 Different Measurement Modes

measurements are taken via the laser photo method.

Contact functions - rotation, distance and frequency

- Meters per minute
- Inches per minute Feet per minute Yards per minute Revolutions
 - Length in Meters Length in Inches
- · Length in Feet · Length in Yards

#328 EZ Tach +PLUS

- Measures RPM on a wide variety of engines from string trimmers to automotive.
- Reads engine revolutions from 0 to 20,000 RPM
- · Picks up RPM signal wireless or with supplied inductive pickup
- Great for setting idle speeds!
- Built-in LED Flashlight illuminates work area
- Backlit LCD display Accuracy ±10 RPM



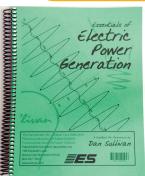
Features:

- No wires, no cables, or fragile antennas!
- **Conventional and DIS** ignition capability
- 0-12,000 RPM on conventional ignitions
- 0-6,000 RPM on DIS ignitions
- Good for Automotive PRM, for small engine see #328
- Low Battery Indication
- Just clamp over any spark plug wire!
- **EZ-Tach gives accurate** RPM readings quick and easy





#183 ESSENTIALS OF ELECTRIC POWER GENERATION



- 125 pages full 8.5 x 11 inch page size of everything you need to know about Electric Power Generation
- Gensets, 3 Phase, Fequency, RPM, Flashing the Field, Governor Basics
- · Safety Basics, Arc Flash, Cable Routing, Conduit
- Loadbanking, Why?, What?, Cable Connections, Testing and Procedures
- Power Factor explained, Basic Concepts, Data Plate vs. Load, RV Gensets
- Prime Power vs. Standy Power, Breakers



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#186 HANDS ON-LINE ELECTRICAL TRAINING CARDS - new!

This is a hands-on training system in which you apply, solder and install all the parts. Dan Sullivan takes you step-by-step through the first 10 training cards by way of his YouTube videos....the last 6 are your challenge!

OVER 6 HOURS OF VIDEO TRAINING, YOU LEARN AT YOUR OWN PACE! Kit includes a list of the parts you'll need to build the circuits and systems on each card....you'll need to purchase the parts or you can scavenge them.

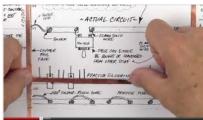
At youtube search bivideo7 or electronspecialties to find the videos

16 Training Cards:

- Basic Circuit Construction
- Measuring Resistance in Series
- Measuring Resistance in Parellel
- Measuring Voltage
- Measuring Amperage
- Rheostats & Potentiometers
- Series Circuits
- Parallel Circuits
- Relays~Electromagnetic Switches
- Diodes~General Theory
- Diodes~Electrical Check Valves
- LED's-Light Emitting Diodes
- Starting System
- Brakes & Turn Signals
- HVAC~Blower Fan & A/C Clutch
- Reversing Relays~Window Motors, etc.

Applications:
Automotive
Heavy Duty
Marine
RV
Equipment





Card 1- Basic Circuit Video





Electronic Specialties, Incorporated

- Since 1967 - OVER 50 YEARS!!! -

WARRANTY: Each item is covered by a one year limited warranty. Any ES brand product that fails during the first 12 months of use due to faulty material or workmanship will be replaced or repaired at our discretion, free of charge. See price list for complete details on warranty procedures.

Contact Information:

Electronic Specialties, Inc. 139 Elizabeth Ln. Genoa City, WI 53128

800-227-1603 • 262-279-1400 • Fax 262-279-1300

www.esitest.com • email: info@esitest.com

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ASSOCIATION
Independence drives us.

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