50 year anniversary!!!

14 NEW PRODUCTS INSIDE!!!
Look for this NEW PRODUCT!

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

WWW.ESITEST.COM

PROFESSIONAL HAND HELD TEST EQUIPMENT

Electronic Specialties, Incorporated
Since 1967

14 NEW PRODUCTS INSIDE!!!
Look for this NEW PRODUCT!

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

WWW.ESITEST.COM

PROFESSIONAL HAND HELD TEST EQUIPMENT
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 $$$.

SteadyPin Probe Tips

LOADpro® features SteadyPin 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.

BONUS KIT!

#181 LOADpro Bundle
- includes #180 & #182

#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
- Voltmeters explained
- Corrosion causes
- Relays, potentiometers, resistors, solenoids
- Finding shorts to ground
- Voltage drop explained
- Battery draws explained
- How-to-read schematics

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.

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

Applications:
- Automotive
- Heavy Duty
- Marine
- Equipment
- RV
Diagnostic Relay Buddy® - 12/24V Relay Tester

#192 Diagnostic Relay Buddy 12/24
- Tests both 12V and 24V Relays!
- 3 Diagnostic Trouble Codes help define the cause of the bad relay!
- 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 is good
- Red Light - relay is bad

#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
- Two pack of adapters allows testing of two new relay types - commonly used for fuel pumps and other powered devices.

#190-8 MAXI Relay Adapter
- Adapter allows testing of heavy duty 4-pin MAXI relays - used on branch power circuits and cooling fans.

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.

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

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 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 accommodate 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!

**Features:**
- .75 inch (19mm) clamp size  
- Analog Bargraph  
- Peak Min/Max  
- Min/Max  
- CATIII 600 Volts  
- Continuity Beep  
- Built-in Temperature/F/C  
- Backlit 5000 count LCD  
- True RMS accuracy  
- 10 Meg/Ohm Input Impedance  
- Dual fuse protection  
- Safety leads & jacks  
- Built-in tilt stand  
- 9V battery installed

**TEST RANGES:**
- **DC Volts:** 0-320mV, 3.2V, 32V, 320V, 1000V  
- **AC Volts:** 0-3.2V, 32V, 320V, 1000V  
- **DC Amps:** 0-320uA, 3.2mA, 32mA, 320mA, 10A  
- **AC Amps:** 0-320uA, 3.2mA, 32mA, 320mA, 10A  
- **Ohms:** 0-320, 3.2K, 32K, 320K, 3.2M, 32M  
- **Capacitance:** 0-40nF, 400nF, 4uF, 40uF, 400uF  
- **Frequency:** 10-100kHz AC  
- **Dwell:** 2 cyl, 3 cyl, 4 cyl, 5 cyl, 6 cyl, 8 cyl  
- **Type K Temp:** -4F to 1400F  
- **RPM:** 40-3200 RPM, 12,000 RPM x 10  
- **RPM 2/DIS:** 40-3200 RPM, 6,000 RPM x 10  
- **Duty Cycle:** 1.0%-90%  
- **Frequency:** 0-3200Hz, 3200Hz, 32kHz  
- **Continuity:** Audible Beep  
- **Diode Test:** Diode Test

#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 leads, RPM pick-up, **temperature probe**, protective holster, 9 volt battery, instructions manual and carrying case. **Inductive RPM pick-up** features a five position, adjustable sensitivity switch.

**Features:**
- 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 probe included  
- 10 Meg/Ohm Input Impedance  
- Dual fuse protection  
- Safety leads & jacks  
- Built-in tilt stand  
- 9V battery installed

**TEST RANGES:**
- **DC Volts:** 0-40mV, 4V, 40V, 400V, 1000V  
- **AC Volts:** 0-4V, 40V, 400V, 1000V  
- **DC Amps:** 0-400uA, 4mA, 40mA, 400mA, 10A  
- **AC Amps:** 0-400uA, 4mA, 40mA, 400mA, 10A  
- **Ohms:** 0-400, 4K, 40K, 400K, 4M, 40M  
- **Capacitance:** 0-40nF, 400nF, 4uF, 40uF, 400uF  
- **Frequency:** 0-4kHz, 40kHz, 400kHz, 400kHz, 10MHz  
- **Type K Temp:** -4F to 1400F  
- **RPM:** 40-1200 RPM, 12,000 RPM x 10  
- **RPM 2/DIS:** 40-6000 RPM, 12,000 RPM x 10  
- **Duty Cycle:** 1.0%-90%  
- **Duty Cycle:** 0-3200Hz, 32kHz  
- **Continuity:** Audible Beep  
- **Diode Test:** Diode Test  
- **Audible Continuity:** Beep  
- **Peak Min/Max:** 1 ms (1000 samples per second)  
- **Auto Power Off:** 30 minutes  
- **Shock/Drop Test:** 6.5 Feet (2 meters)

**MODEL #TMX-589 TECH METER KIT**

**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 Multimeter  
- **CATIII 1000V** safety  
- **Waterproof/Dustproof to IP67 Standards**  
- **LOADpro** - 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 E S FOR QUALITY TEST INSTRUMENTS**
### FEATURES:
- **CAT III 1000 Volt rated** - safe to use with 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**

**#595 PRO AUTOMOTIVE METER W/PC INTERFACE**

595 features a huge LCD display w/bargraph for easy viewing. It can be interfaced to your PC or notebook computer for data usage.

SEE WEB PAGE FOR FULL SPECIFICATIONS AND TEST RANGES!
#480A AUTO-RANGING DMM

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

#380A ENGINE ANALYZER/DMM

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

#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!

#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!

TEST RANGES:
- DC Volts: 0-60mV, 600mV, 6V, 60V, 600V
- AC Volts: 0-60mV, 600mV, 6V, 60V, 600V
- DC Amps: 0-600µA, 6000µA, 60mA, 600mA, 6A, 10A
- AC Amps: 0-600µA, 6000µA, 60mA, 600mA, 6A, 10A
- Ohms: 0-600, 6K, 60K, 600K, 6M, 600M
- Capacitance: 0-10nF, 100nF, 1uF, 10uF, 100uF, 40mF, 100mF
- Duty Cycle: 0.1 ~ 99.9%
- Frequency: 9.99Hz - 10MHz
- Type K Temp: -58F to 1400F, 302F to 1292F
- Continuity: Audible Beep
- Diode Test: Diode Test

#501 DIGITAL MINI MULTIMETER

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!

SEE WWW.ESITEST.COM FOR FULL SPECIFICATIONS AND TEST RANGES!
#301M - #302M - #303B - #304B - #305M - #306B - #309 FUSE BUDDY® TESTERS

Model 309 Fuse Buddy Mini Kit

• 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!

Model 301M
0-20 Amps for Mini Fuse. DMM determines max current range Readings displayed on DMM or scope

Model 302M
0-20 Amps - .01A res. for Mini Fuse

Model 303B
0-20 Amps for ATO Fuse

Model 304B
0-20 Amps - .01A res. for ATO Fuse

Model 305M
0-30 Amps - .1A res. for Mini Fuse

Model 306B
0-30 Amps - .1A res. for ATO Fuse

Model 309 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 intermittent 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 Circuits  • 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

NEW PRODUCT!

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 circuits
• 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

GO WITH ES FOR QUALITY TEST INSTRUMENTS
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.

TEST RANGES:
- DC Amps: 0-40A, 400A, 1000A
- AC Amps: 0-40A, 400A, 1000A
- DC Volts: 0-400mV, 4V, 40V, 400V, 600V
- AC Volts: 0-400mV, 4V, 40V, 400V, 600V
- Ohms: 0-400, 4k, 40k, 400k, 4M, 40M
- Frequency: 0-5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 100kHz
- Capacitance: 0-4nF, 40nF, 400nF, 4uF, 40uF, 100uF
- Duty Cycle: 0-.5%-99.0%
- Diode Test
- Continuity: Audible Beep

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
- Overload Protection
- Auto Power Off
- Auto-Ranging
- Data Hold
- Carrying Case included
- Continuity Beep
- Clamp opening 7/8 inches
- 9 Volt Battery Included
- Data Hold
- Carrying Case included

TEST RANGES:
- DC Amps: 0-40A, 200A
- AC Amps: 0-40A, 200A
- DC Volts: 0-400mV, 4V, 40V, 400V, 600V
- AC Volts: 0-4V, 40V, 400V, 600V
- Ohms: 0-400, 4k, 40k, 400k, 4M, 40M
- Frequency: 0-5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 100kHz
- Capacitance: 0-4nF, 40nF, 400nF, 4uF, 40uF, 100uF
- Duty Cycle: 0-.5%-99.0%
- Diode Test
- Continuity: 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
- 10 Test Functions
- Auto Power Off
- Auto-Ranging
- Data Hold
- Carrying Case included
- Continuity Beep
- Clamp opening 1/2 inches
- 9 Volt Battery 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
- Ohms: 0-400, 4k, 40k, 400k, 4M, 40M
- Frequency: 0-5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 1MHz
- Capacitance: 0-40nF, 400nF, 4uF, 40uF, 100uF
- Duty Cycle: 0-.5%-99.0%
- Diode Test
- Continuity: Audible Beep

GO WITH FOR QUALITY TEST INSTRUMENTS
ELECTRONIC SPECIALTIES, INC.

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.

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

TEST RANGES:
- DC Amps 0-20A, 80A (resolution .01A)
- AC Amps 0-20A, 80A (resolution .01A)

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

MODEL #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.

Features:
- 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:
- DC Amps 0-600A, 1000A (resolution .1A)
- AC Amps 0-600A, 1000A (resolution .1A)

MODEL #640 D.V.A. ADAPTOR

Features:
- Read peak volts on CD ignition coils w/your existing DMM
- Adapts standard digital multimeter into peak reading voltmeter
- OEM tool for several outboard engine manufacturers
- Fits most DMM’s

GO WITH FOR QUALITY TEST INSTRUMENTS
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.

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.

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.

MODEL #148 14 Piece Deutsch TEST CONNECTOR KIT - new!

This test kit features a variety of Deutsche 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.

Includes:
- 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 Leads 2 pcs.
**ELECTRONIC SPECIALTIES, INC.**

**GO WITH FOR QUALITY TEST INSTRUMENTS**

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### #618 Mini Back Probes/Wire Piercers

- 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

---

### #629 Test Leads w/Screw off Alligator clips

- 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 - new!

- 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 - new!

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

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### #142-3 Heavy Duty Insulation Piercing Probes

- 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

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### #134 FUSE LEAD Automotive Test Leads

Automotive Fuse Holder In-Line
Can Prevent Your DMM’s Internal Fuse From Blowing - TIME SAVER!
- ATC Fuse Holder In-Line
  - Provides extra overload protection
  - Can prevent your DMM’s internal fuse from blowing

---

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

---

### #142-4 Crocodile Clips - new!

- Large size - clips to battery post
- Compatible w/many test lead kits
- Use w/ #142-1 - CATIII 1000V

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### MODEL #142 PRO Automotive Test Lead Kit

PRO Test Lead Kit includes an assortment of our highest quality specialty test probes designed for automotive use. The **bed of nails set** gives a great deal of flexibility to clamp to test point or pierce the wire insulation. Large **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

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### #142-5 Automotive Back Probe Pins

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

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**NEW PRODUCT!**

**GO WITH FOR QUALITY TEST INSTRUMENTS**
#146-P Stacking Banana Plug Test Leads - new!

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

#138 MAG LEADS® W/ALLIGATOR CLIPS

- Need to stick to a good ground or test point? Get the Mag Lead!
- Mag Lead features a magnetic disconnect near the test probe end - no affect to the readings.
- Just disconnect the test probe and you can “stick” to any metallic ground or test point.
- This is a time saving tool! - If you don’t have to walk to your tool box to retrieve your alligator clips, even on just half the occasions, then you’ve saved time.
- Can eliminate the need to hold probes while checking or monitoring a signal.

#165 Starter Buddy® - new!

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 INDUCTIVE TIMING LIGHT

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 accept a copy.

Made in USA!

#125 DIGITAL TACH/ADVANCE TIMING LIGHT

- Professional 12V Timing Light with High Visibility LED display
- Very bright display indicates: Tach (RPM) - Degrees Advance
- Measures ignition spark advance from 0-90 degrees
- 2 & 4 Stroke Tach reads engine speed up to 9,999 RPM
- Brilliant Xenon flash at all speed - Detachable/replaceable cables

#112 CHROME ADVANCE TIMING LIGHT

- Lightweight design is ideal for field or shop use
- Built-in flashlight, convenient for dark engine compartments
- Works on 2 or 4 cycle engines, all ignitions systems
- Xenon flash tube & focused fresnel lens combines for brilliant flash
- Precision focused flash tube
- Removable/replaceable leads
- Trigger switch prolongs tube and circuit life

#120 SELF-POWERED TIMING LIGHT

- Xenon flash tube & focused fresnel lens 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

#162 DIGITAL TIRE PRESSURE GAUGE

- 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

Go with ELECTRONIC SPECIALTIES, INC. FOR QUALITY TEST INSTRUMENTS
GO WITH ELECTRONIC SPECIALTIES, INC. FOR QUALITY TEST INSTRUMENTS

#EST-75 HIGH TEMP IR THERMOMETER - PRO MODEL
- Extreme high temp range, up to 1832°F
- 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

#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
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-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 tone
- Loud 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)

MODEL #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 cyli’s, leaking head gaskets, broken valve springs, rings & damaged pistons
Made in USA!

#701 VACUUM GAUGE AND FUEL PUMP TESTER
Features:
- Large 3 1/2” diameter face
- English and metric scales
- Vacuum: 0-30 inch Hg and 0-600 mm Hg.
- Fuel pump pressure: 0-10 Psi and 0-7 Kg/Cm2
- Heavy duty tubing and vacuum fitting included
- Check for leaky valve timing, fuel pump vacuum and gas line leakage

#702 UNIVERSAL 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 cyli’s, leaking head gaskets, broken valve springs, rings & damaged pistons

#EST-100 IR THERMOMETER ADAPTER
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

SEE OUR WEB SITE ESITEST.COM FOR FULL SPECIFICATIONS AND TEST RANGES!

NEW PRODUCT!

SEE OUR WEB SITE ESITEST.COM FOR FULL SPECIFICATIONS AND TEST RANGES!
#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

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#725 BATTERY & STARTING/CHARGING SYSTEM TESTER

- 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

**Specifications:**
- Batteries Tested: 6 and 12 Volt
- Charging Systems: 12 and 24 Volt
- State of Health: Actual Battery CCA and %age
- State 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

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MODEL #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

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#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.

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MODEL #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

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GO WITH FOR QUALITY TEST INSTRUMENTS
#726 BATTERY & ELECTRICAL SYSTEM TESTER W/PRINTER

- 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
- 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

MODEL #333 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 & 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.

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

#333 PRO LASER / CONTACT TACHOMETER

Dual function Laser Photo & Contact Tachometer. Photo RPM measurements are taken via the laser photo method. Contact functions - rotation, distance and frequency measurements are taken w/accessory heads. Zippered case, 3 contact adapters, tape, instructions & 9V battery included.

Features:
- 0-99,999 RPM - 12 Different Measurement Modes
- High intensity laser beam, detects RPM from up to 6 feet away
- Memory function saves up to 10 min/max/avg date records
- Reflective tape and 3 contact accessories included

CONTACT MEASUREMENT MODES:
- RPM(contact)
- Inches per minute
- Feet per minute
- Revolutions
- Length in Meters
- Length in Feet
- Length in Yards
- Frequency(Hz)
- Meters per minute
- Yards per minute
- Length in Inches

MODEL #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

#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/JOBTIMER TOTAL - records total engine run time
- JOB - records work related time
- SERVICE - reminder for maintenance
- Includes battery, mounting velcro, battery and instructions
- For complete specs, see website

NEW PRODUCT!

NEW PRODUCT!
#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, Frequency, 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

#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 Parallel
- 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

NEW PRODUCT!

Electronic Specialties, Incorporated

- Since 1967 - 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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