



ASO-6042



FER-V040-01



FER-V042-01

## ASO-6042 Battery & Electrical Systems Tester

(Probador para Sistemas de Batería y Eléctricos)

For precise and quick diagnosis of 12, 12/24, and 24-volt electrical systems. Will also analyze charging/starting systems and GM diode trios. Large LED meters read up to 99.9 volts DC and 999 amps. Features 10 megohm input impedance, high resolution carbon pile. 15-foot load cables with fully-insulated 500-amp clamps, plus separate light gauge test leads for tighter spots. Equipped with patented side terminal adapters. Includes VHS instruction video and highly stable wheel-around stand.

## FER-V040-01 Charging System Analyzer

(Analizador del Sistema de Cargador)

The Ferret 40 loads batteries up to 1200 cold cranking amps and the inductive amp probe measures up to 600 amps. Tests 6 and 12 volt systems.

- Tests vehicles with 6 and 12 volt starting and charging systems
- Measures output and indicates defective diode/starters
- Checks voltage regulation
- 10 megohm aux. volt leads
- Easily tests up to a 1200 CCA battery
- Checks current draw and cable/solenoid resistance on starters

## FER-V042-01 Heavy-Duty Charging System Analyzer

(Analizador del Sistema de Cargador para Uso Pesado)

Performs high capacity starting and charging system test on 6, 12, and 24 volt systems. Fan-cooled carbon pile loads batteries up to 1200 cold cranking amps. Inductive amp probe measures up to 1200 amps. Diodes and starters are tested automatically, and a built-in timer guides load test. Patented side-exit battery clamps and ten foot long leads are ideal for large vehicles. (57 lbs.)



## CARBON PILE TESTERS

• PROBADORES PARA PILAS DE CARBÓN •

## ASO-6034 500 Amp Carbon Pile Tester

(Probador para Pilas de Carbón 500 Amp)

Handles all 6/12-Volt batteries. Two large 4.5" analog meters display amperes and volts. The DC test leads are 2.5' and 4-AWG. Includes manual adjust knob and buzzer that sounds after load is engaged for 15 seconds.

## ATD-5492 500-AMP Carbon Pile Battery Tester

(Probador de Batería de Resistencia de Carbon 500-AMP)

Load tests 12V batteries, alternators, regulators, and starters. Also tests batteries up to 1,000 CCA/160 amp-hour. Features automatic alarm after 15-second load, color-coded temperature compensation chart, separate analog volt and amp meters, variable load knob, and convenient carrying handle. Includes heavy-duty 35" 4-gauge cables with 500-amp clamps.

# BATTERY TESTERS



## **ASO-6024 12V/24V Alternator & Battery Tester** (Examinador de Batería & Alternador 12V/24V)

Conduct full 125A battery load tests, plus test state of charge, starter, and charging system on 12V and 24V batteries, alternators, and starters on all types of vehicles. Lightweight unit features heavy-duty clamps and recessed meters.

## **ASO-6029 Hand-Held 6/12V Battery Tester** (Examinador de Mano para Batería 6/12V)

For conventional and maintenance-free 6 and 12-volt batteries. Tests state of charge, cranking ability, system output and starter motor draw. 125-amp load. (4 lbs)

**ASO-610263 Switch for ASO-6029**

## **ASO-6030 125 AMP Load Tester** (Examinador de Carga 125 Amp)

Use for 12V batteries, alternators and starters on all types of vehicles. Features heavy duty insulated safety clamps with 300 amp jaws and side terminal adaptors.

## **ASO-6031 Battery Alternator Tester** (Examinador Alternador de Batería)

Performs alternator diode test, charging system, starter test, state of charge and battery load test. Features side terminal adapters, 300-amp clamps and 125-amp load test capabilities. (4 lbs)

## **ASO-6033 Digital 125 Amp Load Tester**

(Probador Digital de Capacidad de Carga de la Batería de 125 Amp)

Lightweight and easy to use hand-held tester, which computes the CCA of the battery, and detects bad batteries. Displays the current voltage as well as maximum and minimum voltages. Also incorporates Kelvin connections in the 300A insulated heavy-duty clamps for improved accuracy. Includes 2 ft. 14/3 leads and 300A safety clamps with recessed meter and side terminal adapters.

## **ATD-5490 12V Electronic Battery & Electrical System Tester** (12V Probador de Batería Electrónica y Sistema Eléctrico)

Uses conductance technology for safe, reliable testing on 12V batteries - even discharged batteries and 12V starting and charging systems. Features automatic battery size selection, reverse polarity protection, and low-voltage indicator LED lights, which show when battery charging is necessary. Multi-colored bar graph displays battery condition shown in % of capacity. Come in a padded blow molded case.

Battery Test Range: 100-1400 CCA

DC Voltage Range: 8-19.9V (.75 lbs.)

## **ATD-5495 Hand-Held Battery Tester** (Examinador de Mano para Batería)

Fixed load of 125 amps • Automatic shut off switch • 300-1,000 cold cranking amps • Tests 6&12-volt charging systems • Test for excessive starter current draw. (1 lbs)

## **ATD-5496 Hand-Held Battery Tester** (Examinador de Mano para Batería)

Fixed load of 125 amps • Automatic shut off switch • Use with 12-volt batteries only • 300-1,000 cold cranking amps • Tests 12-volt charging systems • Test for excessive starter current draw. (1 lbs)

## **CTM-66318 12V Battery and Alternator Checker** (Inspector de Batería y Alternador)

LED lights show battery charge level, alternator output and voltage.

## **VEC-008 12/24V LCD Voltage Meter** (Medidor de Voltaje 12/24V LCD)

Plugs directly into cigarette lighter/power socket to measure output voltage and battery condition. Lighted digital display shows exact voltage.



**ATD**  
ATD-5491



**ASSOCIATED**  
ASO-8540



**ES**  
ESI-720

## **ATD-5491 Battery & Charging Systems Tester** (Bateria Y Probadador De Los Sistemas De Carga)

Tests all 6 & 12V lead acid, AGM and gel batteries, plus 6/12/24/36V starting/charging systems. Displays both percent of capacity and CCAs, detects and displays alternator ripple and bad cells, and tests series (24V) and parallel batteries. Features printer interface for remote printing, reverse polarity protection, patented conductance technology, loose lead detection, 2' cables, and 2-line LCD display. Displays in English, Spanish, French, and German. Includes 9V battery.

## **ASO-8540 TECH-CHEK Advanced Starter Circuit Tester** (Avanzado Probadador TECH-CHEK Iniciador de Circuitos)

Allows hands free operation while the technician starts the vehicle. Indicates a good connection to the points being monitored, tests battery voltage, monitors 4 connection points at one time to expedite the testing process, holds the status of all poor connections until the Tech-Chek is reset, allowing the technician to analyze the results, and will automatically switch to the 24-volt setting if battery voltage is detected above 16 volts. Includes test lead set.

## **ESI-720 Digital Battery Tester** (Probadador de la Bateria de Digital)

Tests battery condition - even discharged batteries - down to 1.5V. Tester removes surface charge prior to battery test resulting in more accurate results. 4-digit LCD display shows actual CCA capacity of battery with pass or fail diagnosis, and LEDs indicate the battery's condition. Test range: 200 to 1200 CCA.

## **ESI-725 Battery & Starting/Charging System Tester** (Probadador de la Bateria y Sistema que Comienza/de Carga)

Tests battery condition of 6 & 12 V batteries down to 1.5V with test results that include the State of Health %, State of Charge %, and actual CCA capacity. Tester removes surface charge prior to battery test resulting in more accurate results. Also tests 12 & 24 V starting/charging systems by checking the alternator voltage and the AC ripple voltage for bad diodes. Features 2-line LCD display available in 7 languages. Test range: 40-2000 CCA.

## **EZR-101 Swing Float Battery Hydrometer** Wt., 0.4 lbs.

## **THX-115 Charg-Chek® Battery Tester** (Probadador de Bateria de Charg-Chek®)

Tests accurately from -40 degrees to 130 degrees using less than 1/4 oz. of acid. No temperature compensation needed. Easy to read and use. Eliminates errors. Spots bad cells quickly. Easy to carry in vacuum sealed container and pocket protector case. Charging guide included. Unbreakable rubber tip. Crack resistant. Neoprene rubber bulb. Number of floating balls show state of charge.

## **THX-117 Disc Type Battery Tester** (Probadador de Bateria de Tipo de Disco)

Full size tester tests batteries quickly and accurately at any temperature to -40 degrees. No temperature compensation needed. Number of floating discs show state of charge. Made of tough, break resistant plastic. State-of-charge printed in specific gravity gradients on tester. One piece rubber bulb, neoprene rubber tip.



**ES**  
ESI-725



**EZR-101**



**THEXTON**  
THX-115



**THEXTON**  
THX-117



# BATTERY TESTERS

## PROFESSIONAL BATTERY CONDUCTANCE TESTERS

• EXAMINADORES PROFESIONAL PARA BATERÍA •



**MIDTRONICS** MDT-MDXP300



**MIDTRONICS**  
MDT-PBT100



**MIDTRONICS**  
MDT-PBT300

Test battery/charging system in seconds, even when discharged as low as 8 volts. LED indicates battery condition (Good, Low, Replace).

TESTER	(CCA) TEST RANGE	READS AVAILABLE CCA IN BATTERY	DETECTS BAD CELL	TESTS STARTING SYSTEM	TESTS CHARGING SYSTEM	VOLT METER	TEST LEAD LENGTH
MDT-PBT300	100-1400 CCA 12 Volt	Yes	Yes	Smart voltmeter captures starter voltage drop. LED indicates good or bad	Smart voltmeter captures peak alternator output. LED indicates good or bad	0-17 Volts	19"
MDT-PBT100	200-850 CCA 12 Volt	No	No	Voltmeter checks cranking voltage	Voltmeter checks alternator output	0-17 Volt	14"
MDT-MDXP300	100-1400 CCA 12 Volt	Yes	Yes	Tests starting system for cars and light trucks.	Test regular, AGM and gel batteries.	0.9-30 Volt	21"





**MIDTRONICS**  
MDT-EXP800



**MIDTRONICS**  
MDT-EXP1000HDAMP

**MDT-EXP800 Advanced Automotive Battery & Electrical System Analyzer with Integrated Printer**  
(Analizador Avanzado para Sistema de Batería y Eléctricos con Impresora Integrada)

Programs shop information into print-header plus coupon at bottom of printout, tests 12V batteries from 100 – 3000 CCA—including AGM & gel, and incorporates temperature measurement with deep-scan technology to improve accuracy and decisiveness across a wider range of batteries. Also displays voltage, measured CCA, battery, starting, & charging system condition. Conducts comprehensive charging system test including diode-ripple. Includes SD memory card to allow record keeping, data transfer, and updates.

**MDT-EXP1000HDAMP Automotive Commercial & Fleet Battery & Electrical System Analyzer**

Tests 6 & 12V batteries, including Group 31 and other commercial batteries, AGM, and gel, while incorporating temperature measurement with deep-scan technology to improve accuracy and decisiveness across a wider range of batteries. Features battery test routine designed for multiple-battery vehicles with pack-test up to 6 batteries in parallel without disconnecting. Also tests 12 & 24V starting & charging systems. Displays voltage, measured CCA, battery, starting, & charging system condition with full digital multi-meter capabilities w/ scope and infra-red temperature readings. Cable-drop test simultaneously calculates the voltage drop across the positive and negative sides of any circuit and total circuit drop without running engine. Includes SD-memory card, which allows for software updates, heavy-duty clamps, Amp-clamp, and case.

**MDT-MDX650P Battery and Charging System Tester**  
(Probador de Batería y Sistema de Cargador)

Tests 6V and 12V batteries from 100-2,000 CCA, and 12V and 24V charging systems, including automotive, motorcycle, marine, lawn and garden, Group 31, and commercial 4D/8D regular flooded, AGM, and gel batteries. Performs quick starter analysis without disabling ignition, and advanced menu-driven interface provides a complete charging system analysis in seconds. Printer provides a professional diagnostic report to the consumer.

**MDT-MDX650** Same as above without printer.

**OTC-3167-HD Heavy-Duty Battery and Electrical System Diagnostic Tester**

(Probador Diagnóstico para Sistema de Batería y Eléctricos para Uso Pesado)

Heavy-duty for 24-volt battery and electrical systems. Diagnoses battery packs in series, parallel, or series/parallel. Test AGM/gel cell batteries. Deluxe kit includes 24-volt heavy-duty battery tester, 15 ft. test leads, instruction manual, and molded plastic carrying case.



**MIDTRONICS**  
MDT-MDX650P



**OTC**  
OTC-3167-HD

# ELECTRIC WIRE REPAIR



**ATD**  
**ATD-285**

## ATD-285

### 285-Piece Electrical Repair Assortment (285 pzs. Surtido Eléctrico de la Reparación)

Includes wire crimping tool, 6/12V tester, Slotted and Phillips screwdrivers, roll electrical tape, 32" test leads, blade style fuses, glass style fuses, fuse puller, 60" roll primary wire, 1/8" and 1/4" wire clamps, heat shrink tubes, cable ties, rubber grommets, assorted wire nuts, and assorted insulated terminals. 2-part plastic case folds open to 180° for easy access to both sides of the kit. (2.8 lbs.)

## LIS-13120 Electrical Connector Separator

Quickly disconnects Weather Pack and other electrical connectors without damage.

## UV NYLON CABLE TIES

Made of UV Stabilized Nylon 6/6. High in strength and lightweight and made of hydroscopic material, which absorbs and releases moisture. In addition, it protects from UV light. It contains well-dispersed carbon black for maximum resistance to weathering. This material is designed for outdoor applications



## RCY-4711UVB

### 500-Piece Cable Ties Assortment

Includes 4", 7", and 11" in a re-usable box with handy access doors to keep ties separate. Fits neatly into a toolbox.

## RCY-4UVB

### 100-Piece Miniature 18-lb. Cable Ties

4.1" black cable ties. .10" wide and .04" thick.

## 100-Piece 50-Pound Series Cable Ties

.19" wide and .05" thick.

<b>RCY-7UVB</b>	<b>8"</b>
<b>RCY-11UVB</b>	<b>11.8"</b>
<b>RCY-14UVB</b>	<b>14.8"</b>



**IPA-8035**

**IPA-8036**



**IPA-8034**  
**IPA-8032**  
**IPA-8033**



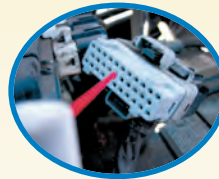
## CLEAN & PROTECT ALL ELECTRICAL CONNECTIONS



Use DeoxIT® Cleaner to prevent electrical failure, improve performance, and remove oxidation & corrosion. Use DeoxIT® Shield after for long-term protection.

### Clean & protect all electrical connections including:

- Terminals
- Fuses
- ABS, In Put/Out Put Sensors
- E.C.U. Connectors
- Horn Connections
- Airflow Meters
- Audio & Video Connections
- Battery
- Relays
- Pins & Plugs
- Fuel Injectors
- Ribbon Cable Connections
- Tail & Head Light Connections



### AVAILABLE IN FOLLOWING SIZES:

- 2 ml. Cleaner IPA-8030
- 2 ml. Shield IPA-8031
- 14g Cleaner IPA-8032
- 14g Shield IPA-8033
- 14g Cleaner & Shield Dual Pack IPA-8034
- 6 oz. Cleaner IPA-8035
- 6 oz. Shield IPA-8036



**IPA-8030**



**IPA-8031**

## **ATD-3735 Dual Temp. Heat Gun (Pistola del Calor de Dos Temperatura)**

120V, 6/12.5Amp gun features two temp. settings for a range of 482°-842°F (400°-450°C). (1.9 lbs.)

## **ATD-3737 Heavy-Duty Heat Gun (Pistola del Calor para Uso Pesado)**

High-powered motor w/ two speed settings and a temp. range of 500°-750°F (260°-399°C), plus die cast metal housing, 14ga cord and hands-free stand make this a rugged, versatile gun. (5 lbs.)



## **INDUSTRIAL-STRENGTH HEAT GUNS & ACCESSORIES**

### **• PISTOLAS DEL CALOR DE RESISTENCIA INDUSTRIAL Y ACCESORIOS •**

UltraHEAT heat gun allows the user to control temperature and airflow, is lightweight and easy to use, and offers quick heat-up and ultra quiet operation. A variety of accessories make UltraHEAT extremely versatile and a great value for most intermittent applications.

## **STE-34100 UltraHEAT™ Dual Temperature Heat Gun (Pistola del Calor de Doble Temperatura UltraHEAT™)**

Dual Temp. Low: 600°F High: 950°F  
Cool Air Stage: Enables rapid cool down  
Output: 1300 watts  
Voltage: 120 VAC / 60 Hz  
Certifications: UL/C-UL  
Warranty: Full One Year



## **STE-34104 UltraHEAT™ II Variable Temperature Heat Gun Kit (Pistola del Calor de Temperatura Variable UltraHEAT™)**

STEINEL's Ultra Heat II is a variable temperature heat gun featuring 3 airflow settings for maximum user control with a soft grip handle for comfortable operation. Kit includes reflector and spreader nozzles in heavy duty case.

Variable Temperature, Up to 1050°F

3-Stage Airflow, Cool air, 140°F

Low air, High air

Output: 1400 watts

Certifications: UL/C-UL

Voltage:

Warranty:

120 VAC / 60 Hz

Full One Year



## **STE-07803 3-Piece Nozzle Kit (Kit Del Inyector De 3 Pedazos)**

For STE-34104 & STE-34100. Includes reflector, spreader, and scraper nozzles.

## **STE-43020 Welding Kit (Kit para Soldadura)**

Includes electronic heat gun and a variety of welding rods and tips with guide book in heavy duty case.

- 39mm Reflector Nozzle • 9mm Reducer Nozzle
- Welding Tip • Slit Welding Tip
- Welding Rod Assortment: ABS, PP, PVC, LDPE, HDPE

## **STE-34075 High Output Heat Blower (Soplador De Alto Rendimiento Del Calor)**

Powerful 23 CFM airflow for industrial use. Features self-cooling output tube, removable stand, slide switch with cool air stage, and lightweight yet rugged adjustable construction. Baffle adjusts air and temperature within range. Designed with double insulation for safety.

Temperature range: 750°-1000°F (399°-538°C)

Airflow: 23 CFM

Weight: 2.4 lbs.

Power Cord: 6.5' Rubber

Output: 1750W

Voltage: 120 VAC



**STEINEL**  
STE-34075



# SOLDERING TOOLS



**SOLDER-IT**  
**SDR-CF-30C**

**SOLDER-IT**  
**SDR-ES610K**



**SOLDER-IT**  
**SDR-ES640CK**



**SOLDER-IT**  
**SDR-MJ280CD**



**SOLDER-IT**  
**SDR-MJ300**



**SOLDER-IT**  
**SDR-MJ310**



**SOLDER-IT**  
**SDR-MJ600**



**SOLDER-IT**  
**SDR-PRO100**

## **SDR-CF-30C Refillable Fuel Cells** (Celda de Combustible Rellenable)

Use with MicorJet™ Micro Torch and MicroTherm™ Heat Gun. Refillable with standard butane.

## **SDR-ES610K Soldering Iron and Hot Knife**

Includes E-016 1.6mm conical, E-310 hot knife, E-124 2.4mm chisel, soldering iron with cap, 60/40 rosin core solder (dia. 1.0mm), and wrench. Available in black or yellow. Soldering tip: 400-500°F, blow torch function: 2400°F, and operating time (one fill): 20 min.

## **SDR-ES640CK Multi-Function 4-in-1 Heat Tool Kit**

Includes B-010 1.0mm conical, B-024 2.4mm conical, B-124 2.4mm chisel, B-311 hot knife, B-610 deflector tip, 60/40 rosin core solder (dia. 1.0mm), cap, sponge, wrench, and instructions. Soldering tip: 400-850°F, blow torch function: 2400°F, and operating time (one fill): 30 min. Handy hang loop is attached to the kit box.

## **SDR-MJ280CD Turbo-Lite**

Features Piezo electronic ignition system with flip-top cap, powered by standard cigarette lighter butane fuel, and flame temperature up to 2500°F. Available in green, red, blue, or yellow.

## **SDR-MJ300 Solder-It Micro-Jet™**

This palm-sized automatic Piezo ignition torch is fueled by a disposable butane lighter or use the included refillable fuel cell. 20-minute burn time per fill.

## **SDR-MJ310 Micro-Jet with Extended Reach**

The Micro-Jet 310 is a pocket sized auto-ignition torch with an extended nozzle to access hard-to-reach areas.

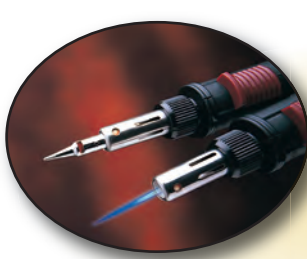
## **SDR-MJ600 MicroTherm™ Butane Flameless Heat Gun**

Hand held flameless heat gun, which produces superheated hot air up to 650°C (1300°F) using a multi-stage catalyst. Also self igniting and is powered by a refillable fuel cell, which is included with the tool, or by readily available disposable butane lighters. Features Piezo ignition system with patented safety lock, and compact ergonomic design.

## **SDR-PRO100 2-in-1 SolderPro™ Butane Soldering Tool** (2-en-1 Herramienta para Soldadura de Butano de SolderPro™)

Features Auto Piezo ignition 100w power range for up to three hours per fill. Comes with comfort grip and two popular tips.

## **SDR-PS1 Basic Replacement Tip**



**SOLDER-IT** SDR-PR0120K



**SOLDER-IT** SDR-PR0150K

## **SDR-PR0120K SolderPro™ Cordless Butane Heat Tool** (Herramienta del Calor Butano Sin Cuerda SolderPro™)

Auto Piezo ignition, portable, visible fuel tank, rapid tip heat-up and up to 4 hours of burn time per fill. Comes with comfort grip and two popular tips and a carry case. (2.0 lbs.)

## **SDR-PR0150K Multi-Purpose Cordless Soldering Iron Kit** (Kit de Soldadura sin Cuerda)

Butane powered with power equivalent to 30W-150W. Adjustable tip temperature range of 480°F to 1000°F. One single refill can allow up to 30 minutes of continuous use. Comes with soldering tip and protective cap.

## **WEL-SP120 120W Soldering Iron** (120W Hierro para Soldadura)

For home workshop, repairs, hobbies, and stained glass applications such as attaching brace bars or using without temperature control for fast lead and foil work. Features stainless steel barrel with heat and impact resistant handle. Includes soldering iron rest and 1/2" diameter, replaceable iron-plated copper tip that develops 900°F. 50/60 Hz. U.L. Listed.



**Weller®**  
WEL-SP120



**ATD**  
**Weller®**  
A

## **A SOLDERING GUN KITS** • KITS DE PISTOLA DE SOLDADURA •

Each gun is designed for continuous use and equipped with built-in spotlight, various accessories and storage case, UL listed.

	DESCRIPTION	POWER	SHIP/WT. (LBS.)
<b>WEL-D550PK</b>	Professional	260/200 Watts	13.0
<b>WEL-D650PK</b>	Industrial	300/200 Watts	3.9
<b>ATD-3740</b>	General	230/150 Watts	3.9

## **B WORKBENCH PIEZO IGNITION TORCHES** • ANTORCHAS DE ENCENDIDO •

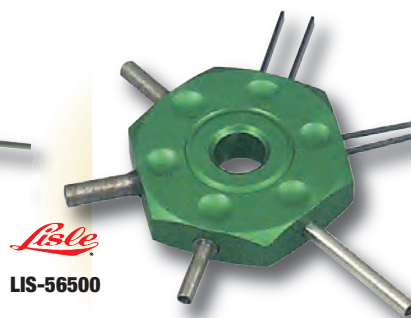
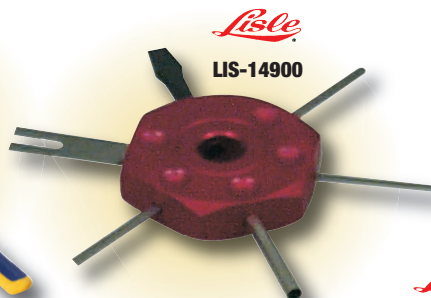
Hand-held workbench butane torches that are lightweight and feature 2400° flames, trigger locks and professional construction throughout. Torches do not come filled.

	BURN TIME	CASING	FLAME	STAND	WT. (LBS.)
<b>SDR-PT200</b>	1-1/4 Hrs.	Polycarbonate	2"	Built-In	1
<b>SDR-PT220</b>	2 Hrs.	Steel, rubber grip	2"	Removable	1
<b>SDR-PT500</b>	2 Hrs.	Steel	6-8"	Built-in	1



**SOLDER-IT**  
B

# ELECTRIC WIRE REPAIR



**SK**  
SKT-7695

**SK**  
SKT-7698



## TERMINAL TOOLS

### • HERRAMIENTAS PARA EL TERMINAL •

#### **LIS-14900 Terminal Tool**

##### **(Herramienta para el Terminal)**

For GM C3 systems. Six tools in one-flat blade to open connectors, fork for ALDL connectors, three rectangular blades for Pack-Con terminals, spring-loaded tube for Weather-Pack terminals. Removes wires from most GM and American Motors computer connectors. Makes removal faster and easier. Eliminates damage to wires and terminals.

#### **LIS-56500 Terminal Tool**

##### **(Herramienta para el Terminal)**

Designed to help the mechanic remove wires easily from terminal blocks without damage to either the wire or terminal. Compact for ease in handling and fits most common sizes of terminal blocks of domestic makes and models, plus some imports. The prongs extending from the star shaped tool depress the barbs on the wire fitting to allow removal from the terminal block.

#### **VSG-2078300 Self-Adjusting Wire Stripper**

##### **(Removedor de Cable Ajuste Automático)**

With 2" wide and 1-1/10" thick jaw, strips wire from 10-24 AWG. Adjustable stopper controls the length of the core strip and ProTouch™ grips provide maximum comfort.

## 2-IN-1 WIRE STRIPPERS & CUTTERS

### • REMOVEDORES Y CORTADORES DE CABLES 2-EN-1 •

These innovative wire cutters/strippers will quickly adjust to the wire size and cleanly strip the insulation, exposing the copper strands.

**IPA-7896**

**10 - 14 AWG**

**IPA-7870**

**14 - 26 AWG**

## CRIMPING/STRIPPING PLIERS

### • ALICATES PARA REMOVER DE CABLES •

Drop forged, heat-treated construction with comfortable grips. Made in the U.S.A. Lifetime Warranty.

**SKT-7695**

**6" Stripping Pliers**

**SKT-7698**

**8" Crimping/Stripping Pliers**

## VINYL ELECTRICAL TAPE

### • CINTAS ELÉCTRICAS VINIL •

DESCRIPTION	SIZE
<b>MMM-06133</b>	<b>Scotch® Super 33 Plus</b>
<b>MMM-06143</b>	<b>Scotch® Super 88</b>
<b>MMM-49656</b>	<b>Tartan™</b>
	<b>3/4" x 52'</b>
	<b>3/4" x 66'</b>
	<b>3/4" x 60'</b>





KDT-2173



KDT-206



KDT-201

## KDT-2173 Three-Way Battery Tool (3-Vías Herramienta de Batería)

Helps prevent battery failure. Removes corrosion from battery post. Assures perfect contact and increases battery performance. Tapered reamer contact assures correct angles on terminal clamps.

## BATTERY BRUSHES • CEPILLOS DE LAS BATERÍAS •

### KDT-206 Battery Brush in Metal Case (Cepillo de la Batería en Caja de Metal)

All metal construction with stainless steel brushes. Tapered brush cleans cable terminals, circular brush cleans battery posts.

### Battery Brush in Plastic Case (Cepillo de la Batería en Caja de Plástico)

Designed for cleaning battery terminals and posts. Internal and external wire brushes come in high impact plastic case. Will not corrode or soften in cleaning solutions.

ATD-8536 ATD Tools  
KDT-201 KD Tools  
LIS-11120 Lisle

### KDT-139 Light Socket Cleaning Brush (Cepillo para Limpiar de Receptáculo)

Remove corrosion and dirt from automotive light bulb sockets.

### LIS-11400 Side Terminal Battery Cleaner (Limpiador de la Batería de Terminal Lado)

Works better and faster than tools designed for regular batteries. Coil spring cutters really polish the battery contact while stainless steel brushes clean the cable terminals. Both cutter and brush resist corrosion.

## BATTERY FILLERS • RELLENOS DE LAS BATERÍAS •

### PLE-75030 Professional Battery Filler (Relleno de la Batería Profesional)

Shuts off automatically when battery cell is properly filled, no overfilling. Features the double action fast flow valve tip 99038 that prevents after-drip. Stops surface discharge caused by a wet battery. Tough, polyethylene construction. Safe to use with battery acid. Two quart capacity.

### PLE-75033 Battery Filler (Relleno de la Batería)

Ideal for all fluids including battery acid. Six ounce rubber bulb and six inch flex spout.

PLE-99038 Tips

### THX-604 Dry Charge Battery Filler (Relleno de la Batería de Carga Seca)

Eliminates spillage, burns on hands, holes in clothing, acid on floor, etc. Attach to standard acid-pak tube, ribbed nipple holds tube snugly, positive thumb release valve controls flow of acid. When thumb valve release flow shuts off - no dripping. Full instructions included with each unit. "Cell-eye" prevents overfilling.

THX-605 Motorcycle/RV Battery Filler Adapter(0.05lb)



ATD-8536  
LIS-11120



KDT-139



LIS-11400



PLE-75030  
PLE-75033



THEXTON  
THX-604

# BATTERY TOOLS



**EZRED**  
EZR-EZMS4000



**Lisle** LIS-40400



**Schumacher**  
SHU-INC7A-OBID



**Schumacher** SHU-INC12V-OBID



**EZRED**  
EZR-EZB795



**EZRED**  
EZR-EZB796



**EZRED**  
EZR-EZB798

## COMPUTER MEMORY SAVERS

• AHORRADORES DE MEMORIA DE LA COMPUTADORA •

### **EZR-EZMS4000 Computer Memory Saver** (Ahorrador de Memoria de la Computadora)

Saves all personal settings (ratio, elec. seats, tec.) and drivability codes when disconnecting /changing a vehicle's starter battery. Features direct wired OBD2 connector, 12V, 4.5 amp hour sealed lead acid battery inside the unit, and power on/off switch. Comes with 120V AC "Smart" charger.

### **KAS-295A Computer Memory Saver** (Ahorrador de Memoria de la Computadora)

Use with 9V alkaline battery. Designed to maintain memory of on board computers when power source is disconnected.

### **LIS-40400 Memory Saver with Light** (Ahorrador de Memoria con Linterna)

Saves memory settings from under the hood with a common 9V battery. Takes the place of traditional memory savers that use the power outlet, which no longer provides protection on newer vehicles since the outlet is switched. Cord is 3 feet long. (4 oz.)

### **SHU-INC7A-OBID Industrial Series Memory Saver** (Ahorrador de Memoria de Serie Industrial)

Preserves stored fault codes and programmed electronic settings. Features easy to read battery status LEDs, and built-in charger for automatic charging of internal battery. Plugs directly to OBDII port. Also includes 12V DC male-to-male connector.

### **SHU-INC12V-OBID Memory Saver Adapter Cable** (Cable para Ahorrador de Memoria)

7' cable connects from a 12V port on a Jumpstarter to the OBDII port on the vehicle transforming the Jumpstarter into a powerful Memory Saver device and providing back-up power to preserve all of the settings for the radio, GPS, seats, accessories and drivability devices in a vehicle.

## BATTERY CABLE TOOLS

• HERRAMIENTAS PARA CABLES DE LA BATERÍA •

### **EZR-EZB795 Heavy-Duty Crimping Tool** (Herramienta de Apretar para Uso Pesado)

Patented triangular crimp exerts equal pressure on all contact points. Features 50 different crimp settings for 6 gauge through 250 MCM with no dies to replace or misalign. (6lbs)

### **EZR-EZB796 Cable/Wire Cutter** (Cortador de Cables)

Cuts wire and cable up to 2/0 gauge, even fuel line! Features insulated handles. (13 oz.)

### **EZR-EZB798 Heavy-Duty Cable Cutter** (Cortador de Cables para Uso Pesado)

Cuts to max. 350 MCM. Features 14" handle, carbon steel blades, and insulated handle. (5.6 lbs.)



**KDT-202 Battery Terminal Puller (Extractor de Terminal de la Batería)**  
Removes corroded clamps, including spring types. Extra sharp points on jaws get under clamps and increase lifting action or dig into sides if clamp is on bottom.

**KDT-203 Battery Nut Pliers (Alicates de Dados de la Batería)**  
These positive grip pliers are designed to give maximum leverage in cramped areas. Sturdy construction for long life. Plastic cushion grips.

**KDT-204 Battery Terminal Spreader/Cleaner (Extensor y Limpiador de Terminal de la Batería)**  
Plier type tool has sharp milled teeth for real cleaning effectiveness. Cleans and spreads in one operation.

**LIS-54150 Battery Terminal & Wiper Arm Puller (Extractor de Terminal de la Batería)**  
Easily removes stuck battery terminals. Also removes bolted on windshield wiper arms that fit over a tapered spline. The puller screw pad is designed to fit the top of the spline post for easy pulling.

## SIDE TERMINAL BATTERY WRENCH

This 5/16" ratcheting box wrench works on GM side terminal batteries and for quick and easy removal and installation of batteries.

**KAS-B10A** **Kastar**  
**KDT-3367** **KD Tools**

## KAS-6525 Extra Long 5/16" Ratcheting Side Terminal Battery Wrench

This extra length (9-3/4") allows for better accessibility in reaching side terminals on the following: Pontiac Grand Am '94 to present, GM "W" Body Cars '94 to present, Buick Regal, Olds Cutlass, Chevrolet Lumina, and Pontiac Grand Prix. Features a reversing lever and a vinyl grip to protect against electric shock.

## THX-311 Side Terminal Charge and Boost Adapters

Side terminal adapters snap onto terminal. No need to remove cable. Fits all O.E.M. replacement terminals. Copper-coated steel for excellent conductivity. Angle design allows use in tight areas. Cannot short out. 500 AMP capacity allows full power to be used. (Package of 2)

## BATTERY CARRIERS

### • PORTADORES DE LAS BATERÍAS •

## ATD-5486 Heavy-Duty Battery Carrier (Cargador de la Batería)

Designed for use on all top and side post batteries with horizontal ridges. Features sure-grip handle for secure lifting and carrying, and rubber padded grips for a firm hold on all batteries up to 7-1/2" wide.

**KAS-B610** **Kastar**

## KDT-205 Battery Carrier Strap (Correa para Portador de la Batería)

Made of high strength, acid resistant plastic. Positive terminal grip for safety. Use to carry top terminal batteries. Strap length is 14".

## KDT-2279 Combination Battery Strap (Correa de la Batería)

Two-in-one strap designed to carry both top-mounted or side-mounted terminal batteries. Strap made of high strength, acid resistant plastic. Knurled screws enable it to be used as a charging adapter for side-mounted terminal batteries. Strap length is 14"

## LIS-57000 Battery Handler (Portador de la Batería)

Pickup, carry and maneuver batteries. Tighten the threaded handle to securely grip all automotive batteries. Unlike conventional battery carriers, you have positive control. The sure grip and low profile design allow you to maneuver the battery in and out of most under-the-hood battery compartments. Angled jaws and the tightening pressure give you a no slip grip. Jaws extend from 6 1/4" to 10 1/4".

## LIS-57850 Battery Carrier (Portador de la Batería)

Lift and carry batteries safely. Spring-action handle turns lifting power into battery gripping pressure. Works on nearly all batteries





# ROLLAROUND CHARGERS



**Schumacher** SHU-SE3000

## SHU-SE3000 Heavy-Duty Fleet Industrial-Use Charges 6, 12, 18 & 24 volt batteries (Cargador para Trabajo Pesado Industrial)

- Up to 200-amp engine starts
- Single rotary switch for all voltage ranges
- "Hold" position on timer for continuous charge (54 lbs.)



**ASSOCIATED** ASO-6002B

## FLEET CHARGERS • CARGADORES VELOCES •

### ASO-6002B 6/12/18/24 Volt Commercial/Fleet (Cargador Comercial - Voltaje 6/12/18/24)

- 100/75/50/40 UL continuous ratings
- 600 amps boost rate (12V)
- 300 amps crank assist (12V)
- Shop-n-Go lite
- 8' 4 AWG DC leads (70 lbs)



**ASSOCIATED** ASO-6006

### ASO-6006 6/12/24 Volt Commercial (Comercial, Voltaje 6/12/24)

- UL listed safe for indoor/outdoor use
- 75/65/30 amp charge
- 455 amp boost (12V)
- 255 amp cranking assist (12V) • 500 amp, fully insulated clamps (59 lbs)



**Schumacher** SHU-SE4020

## ECONOMY CHARGERS • CARGADORES ECONÓMICOS •

### SHU-SE4020 6-12 Volt Starter/Charger (Arrancador/Cargador, Voltaje 6-12)

- 10/40 amp continuous charge
- Built-in timer
- 200-amp boost
- UL Listed
- Five-year transformer warranty (39 lbs)



**ASSOCIATED** ASO-6018

### ASO-6018 40/5/200 Amp, 6/12 Volt

- 200 amp clamps
- 6-1/2', 6-1/2 AWG leads
- 210 amp UL cranking assist (12V)
- 50/40 amp continuous rating

# SERVICE STATION CHARGERS



**ASSOCIATED**

**ASO-6012**

## **ASO-6012 6/12 Volt (Voltage 6/12)**

- Safe in Any Weather
  - 250 Amp cranking assist
  - 60/70 Amps continuous charging
  - 6-ft DC leads with 400 Amp fully insulate clamps
  - 5-Yr warranty on rectifier and transformer
  - Timer and voltmeter
- (47 lbs.)



**ASSOCIATED**

**ASO-6001A**

## **ASO-6001A 6/12 Volt (Voltage 6/12)**

- 100/70 UL continuous ratings
  - 550 amps boost rate (12V)
  - 300 amps cranking assist (12V)
  - 8', 4 AWG DC leads
  - Stop-n-Go lite
- (58 lbs)



**Schumacher**

**SHU-SE8050**

## **SHU-SE8050 Heavy Duty & Service Station (300 AMP/60 AMP/30 AMP) (Estación de Trabajo de Servicio Pesado)**

- 2 fast-charge settings
  - Cooling fan for long life
  - "Hold" position for continuous charging
  - For 6 and 12 volt batteries
- (45 lbs.)



**Schumacher**

**SHU-PSW2550**

## **SHU-PSW2550 Manual Wheel Charger/Engine Starter (Cargador/Impulsador Manual para Motor)**

ProSeries 6/12V charger features 600 amp heavy-duty, chrome-plated steel ultra-grip clamps and 6' heavy-duty welding grade cables, plus 9' AC cord, large rubber wheels, extra high handle for easy mobility, and large, clear-view amp meter.

# MULTI-BATTERY CHARGERS

**ASSOCIATED**

**ASO-6065**



## **ASO-6065 Multi-Battery Parallel Charger (Cargador Paralelamente de Multi-Bateria)**

UL Listed. Charges 1-10, 12 volt batteries in parallel, in less than 24 hours. DC output rating: 14.9 volt, 30 amps, AC input rating - 60 Hz: 108-132 volt, 7.5 amps - single phase. Weight 40 lbs. Dimensions: 22" x 17" x 13". Use with ASO-6075 Bus Bar.

**ASSOCIATED**

**ASO-6068**



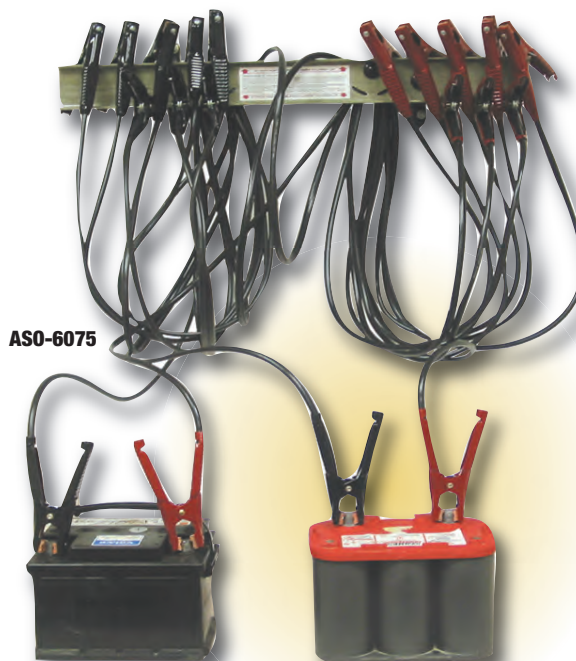
## **ASO-6068 Parallel Charger (Cargador Paralelamente)**

Charges up to 36 batteries in less than 24 hours.

**ASSOCIATED**

## **ASO-6075 Bus Bar Set for Parallel Charging (Set de Barras para Cargada Paralelamente)**

Ten battery capacity. Insulated Fiberglass "U" Channel back-board can be used with standard metal uprights and shelving for a "do-it-yourself" battery charging center. Also mounts on wall. 10 pairs of DC charging leads with insulated safety clamps, 300 amp, 10 gauge, 36" long. Insulated storage bar for clamps not in use. 3 ft., 4 AWG gauge connecting cables for connecting to charger or to additional bus bars. Charger and batteries not included. For illustration purpose only.



**ASO-6075**





**SHU-PSC2030T**



**SHU-SE70MA**

## BENCHTOP CHARGERS

• CARGADORES PARA BANQUETA •

### **SHU-PSC2030T Manual Battery Charger/Engine Starter** (Cargador de Batería/ Impulsador Manual para Motor)

6/12V charger features 600 amp heavy-duty, chrome-plated steel ultra-grip clamps and 6' heavy-duty welding grade cables, plus 9' AC cord and large, clear-view amp meter.

### **SHU-SE70MA 12V & 24V Benchtop Charger** (Cargador para Banqueta 12V & 24V)

Fully automatic charger brings a deep-cycle battery to full charge in 7-11 hours, an automotive battery in 3-5 hours, and will not overcharge. Also features 10 amp fast charge for everyday charging needs, and manual override switch allows user to switch to manual operation for special applications. (15 lbs.)

### **SHU-SE3010 200/30/10 Amp Manual Starter & Charger**

Heavy duty, high output, portability and 6 and 12 volt capabilities; 5-function rotary power switch. (26 lbs.)



**SHU-SE3010**

### **SHU-SE82-6 6/2 AMP Dual Rate Manual Charger** (Cargador Manual Doble Velocidad 6/2 Amp)

Use this versatile charger for 6 and 12 volt batteries; 6 amp medium charge rate in 6-8 hours; 12 amp trickle charge for 12v battery in 2-12 hours. (7.5 lbs.)

### **SHU-SE40MAP Fully Automatic 10 Amp Battery Charger** (Cargador de Batería Completamente Automático 10 Amp)

- Manual setting options for special applications
- 10 amp fast charge in 3 to 5 hours

### **SHU-SE5212A Fully Automatic Starter/Charger** (Cargador/Arrancador Completamente Automático)

- LED lights for charge status
  - 50 amp engine emergency start; 10 amp fast charge in 3-5 hours
  - 2 amp trickle charge for small engines in 2-12 hours
- (21 lbs.)



**SHU-SE82-6**



**SHU-SE40MAP**



**SHU-SE5212A**

# BATTERY CHARGERS



**SHU-SC1000A**



**SHU-SC600A**

## SPEEDCHARGE™ HIGH-FREQUENCY ELECTRONIC CHARGERS

### • CARGADORES ELECTRÓNICOS DE ALTA FRECUENCIA DE SPEEDCHARGE™ •

- Self adjusting, variable charge rates for everyday charging battery in peak condition.
- Automatically desulfates and restores car, truck, RV, farm equipment, AGM, gel cell and deep-cycle batteries.

### **SHU-SC1000A Fully Automatic Microprocessor Controlled 10-6-2 Amp Fully-Automatic Charger**

**(Microprocesador Completamente Automático Controló el Cargador Completamente Automático de 10-6-2 Amp)**

Fully automatic, microprocessor controlled charger monitors battery condition and adjusts charge rate downward to prevent battery damage. 2A slow charge is perfect for charging and maintaining small batteries in motorcycles, ATVs, snowmobiles and lawn tractors. Includes 50A clamps and electronic push button controls.

### **SHU-SC600A 6-4-2 Amp Charger**

**(Cargador 6-4-2)**

High-frequency charger uses advanced technology to charge 6 and 12 Volt batteries up to twice as fast as conventional chargers. Digital LED meter displays battery charge status and system test results.

### **SHU-SC6500A Fully Automatic SpeedCharge**

**(Cargador Rapido Completamente Automático)**

Microprocessor-controlled unit provides 65A engine start, 10-20A fast charge, 2A slow charge. Features automatic programmed variable charge with battery monitoring, built-in digital voltmeter/tester, correct connection protection, digital display.

### **SHU-SC8000A Fully Automatic Starter/Charger**

Provides 80 Amp engine starter for emergencies, or self-adjusting, variable charge rates (2A slow – 12A fast charges). Charges and automatically desulfates and restores car, truck, RV, farm equipment, AGM, gel cell and deep-cycle 12V and 6V batteries. Includes 125A sure-grip clamps, electronic controls, and built-in digital voltmeter/tester.



**SHU-SC6500A**



**SHU-SC8000A**



**ASSOCIATED**

## AUTOMATIC BATTERY CHARGER/MAINTAINERS

### • CARGADORES DE BATERIAS AUTOMATICO •

Both units feature micro-processor control using LED operating indicators, reverse polarity and short circuit protection, battery clamps, and slide switches.

**ASO-9003**

**ASO-9004**

**6/12V – great for classic car collectors**

**12V flooded or gel.**



**SHU-SC200A**



**SHU-SEM1562A**

## TRICKLE CHARGERS/MAINTAINERS

• FILTRACIÓN CARGADORES Y MANTENEDORES •

### SHU-SC200A Fully Automatic Electronic

#### 2 & 4 Amp Trickle Charger

(Cargador Electrónico de Corriente Continua Completamente Cargado)

This compact charger offers efficient SpeedCharge technology and the convenience of multiple battery connectors. Charges small batteries and maintains small and large stored or antique/classic car batteries. Offers 2amp (12V batteries) and 4 amp (6V batteries) trickle charge, with reverse hookup protection. Connector options include 50A clamps, 12V accessory plug for in-car charging or charging portable jump starters, plus quick-disconnect plug with ring connectors for easy charges on hard-to reach batteries. Includes molded plastic case.

### SHU-SEM1562A Fully Automatic 1.5 Amp Trickle Charger/Maintainer

(Cargador de Corriente Continua 1.5 Amp)

Unique automatic battery charger maintains both 6V and 12V batteries, keeping them at full charge using float-mode monitoring. Perfect for maintaining small and large batteries kept in storage – motorcycles, classic cars, RVs, boats, etc. Quick-disconnect harness with ring connectors allows user to charge hard-to-reach batteries without removal. Also features reverse hookup protection and LEDs to indicate charging, charged and trouble.

### SHU-MC1 Manual 1 Amp Trickle Charger

Great for hard-to-reach motorcycle batteries! Has a quick-disconnect harness with ring connectors. Hook the harness up once so there's no need to take the battery out to charge. 1 amp rate charges 6V and 12V batteries in 2-12 hours. Also features 50A clamps, reverse hookup protection, and includes molded plastic case. (4 lbs.)

### SHU-SE112S Fully Automatic 1.5 Amp Trickle Charger/Maintainer

(Cargador Mity Mite 1-1/2 Amp/12V)

Keeps 12V batteries charged by turning on and off as needed, including deep cycle. "On-Board" feature allows mounting of charger next to battery on collectibles, street rods and other infrequently used vehicles, and short leads won't get tangled in moving engine parts. Hardware and mounting brackets are included. 1.5 amp trickle charge rate charges in 2-12 hours. LED lights indicate power on and charged. Also features reverse hookup protection and includes molded plastic case.

### SHU-SE125A 125 Amp Automatic Bench Charger

(Cargador Automático para Banqueta de 125 Amp)

Designed for charging 6V and 12V standard batteries. Features fully automatic or manual charging modes, 15 Amp fast & 2 Amp trickle charge settings, and reverse polarity protection.



**SHU-MC1**



**SHU-SE112S**



**SHU-SE125A**



# BATTERY CHARGERS



**Schumacher** SHU-SSC1000A



**Schumacher** SHU-SS51APE

## MARINE BATTERY CHARGERS

• CARGADORES DE BATERIAS MARINA •

### SHU-SSC1000A Ship 'N Shore Marine Battery Chargers High-Frequency Electronic Battery Charger

Fully-automatic and microprocessor-controlled charger uses easy push button switches for mode selection between 3 charging rates: 10 Amp fast charge for car, truck, marine, RV, farm equipment, AGL, gel cell and deep-cycle batteries; 6 Amp medium charge to keep batteries in peak condition; 2 Amp slow charge for charging and maintaining small batteries in motorcycle, ATV, snow mobile, or tractor applications. Features 50 amp clamps, retractable handle, and 5-year warranty.

### SHU-SS51APE Fully-Automatic Benchtop Charger

For boats and RVs with 12V deep-cycle batteries. Fully-automatic and will not overcharge, or can be run manually. 10 Amp fast charge will charge deep-cycle batteries in 7-11 hours, automotive batteries in 3-5 hours. Features LED full charge indicator, reverse hookup safeguard, and carrying handle.



**CTEK** CTK-800



**CTEK** CTK-3300



**CTEK** CTK-7002

## BATTERY CHARGERS

• CARGADORES DE BATERIAS •

"The smartest battery chargers in the world!" Maintains and charges 12V batteries – flooded, maintenance-free, Gel, and AGM. Uses a 4-cycle intelligent process for perfect battery maintenance and charging: desulfation, to recover sulfated or under-charged batteries; bulk charge, begins charging at 0.8/3.3A; absorption, applies peak charge at 14.4/14.7V until fully charged; pulse, sends out current pulses for charge maintenance. Fully sealed design is approved for outdoor uses. 2 year warranty. (1.1lbs.)

### • CTK-800 **GOOD!**

– Charges from 1.2Ah-32Ah, 1.2-100Ah maintenance charging.

### • CTK-3300 **BETTER!**

– Recommended for Optima Red Top batteries. Three unique charging modes for use on small batteries, large batteries and a cold weather boost mode for fast charging in the coldest conditions. Charges from 2Ah-90Ah.

### • CTK-7002 **BEST!**

– Recommended for Optima batteries. Fully automatic charger features unique 8-step charging curve. Made for all weather conditions and situations, and designed for safety. Battery capacity: 14-150Ah (charging) 14-225Ah (maintenance). (1.7 lbs.)

# BATTERY BOOSTER PACKS

**ALL  
BOOSTER PACKS  
MUST BE CHARGED  
BEFORE INITIAL  
USE!**

**BUILT-IN  
EMERGENCY  
LIGHT!**

**BUILT-IN  
AIR  
COMPRESSOR**

**ATD**  
ATD-5921



**ATD**  
ATD-5925



**ATD**  
ATD-5928



## **ATD-5921 12V, 18Ah Jump Start (Saltar el Arrancador para 12V,18Ah)**

Features 900 Peak Amps & 400 Cranking Amps with on/off switch for safety, charging level/battery indicator gauge, 12V DC outlet with overload protection, 43" heavy-duty, rubber-insulated copper cables that remain flexible in extreme cold temperatures. Comes with a built-in work/emergency light. Also includes 500 Amp rubber-insulated, heavy-duty clamps, AC/DC power cord for charging in vehicle, and 500mA Built-in 110V charger with overcharge protection. Designed with heavy-duty impact resistant polyethylene case.

**ATD-5925**

**12V, 18Ah Jump Start with 260 psi Max Pressure Built-in Air Compressor**

## **Jump Start (Saltador)**

Features fully automatic built-in charger, on/off switch for safety, 12V DC power outlet with overload protection, and battery condition gauge. Designed with heavy-duty impact resistant polyethylene case with rubber base. PVC coated cables remain flexible in extreme cold temperatures. Includes 1000 amp steel-plated copper clamps, and 12V DC power adapter for charging in vehicle.

**ATD-5928**

**12V with 1700 peak amp power and 700 cranking amps. Also includes 24 Ah battery, 74" 4-gauge cables.**

**ATD-5932**

**12V/24V with 1500 peak amp power and 700 cranking amps. Also includes two 18 Ah batteries, and 84" 2-gauge cables.**



**ATD** ATD-5932

## **SHU-PSJ1812 Jump Starter and Portable Power Unit (Saltar el Arrancador y la Unidad de Energia Portable)**

Features 1800 peak amps, 280 cranking amps and 225 cold cranking amps. Designed with 12V DC power outlet, built-in automatic charger, and polypropylene case. Also features battery status, and charging and charged status LEDs. Uses 18 Ah professional grade, high output AGM Battery. Includes 4 Gauge, 28-inch cables. (21 lbs.)



**Schumacher**  
SHU-PSJ1812

## **DSR PROSERIES HEAVY-DUTY JUMP STARTERS**

• SALTADORES PARA USO PESADO DE DSR PROSERIES •

DSR professional-grade jump starters feature high-output AGM batteries, a 3 Amp built-in automatic charger for faster recharges that will not over-charge, and reverse hookup alarm. 2-function digital display indicates internal and vehicle battery voltage, percent of charge, and charging system voltage while engine is running. It is non-spillable and stores in any position in its rust- and corrosion- proof case. Includes heavy-duty clamps with copper jaws and a wider base for better stability.

**SHU-PSJ2212**

**(2200 peak/330 cranking Amps, for 12 Volt batteries, 4-gauge, 50" cables)**

**SHU-PSJ3612**

**(3600 peak/470 cranking Amps, for 12 Volt batteries, 2-gauge, 55" cables)**

**SHU-PSJ4424**

**(4400 peak/500 cranking Amps, for 12 Volt and 24 Volt 55" cables with an internal cooling fan)**



**Schumacher**

SHU-PSJ2212



**Schumacher**

SHU-PSJ3612



**Schumacher**

SHU-PSJ4424

# BOOSTER CABLES & CLAMPS


**ASSOCIATED**

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**ASSOCIATED**

## BOOSTER CABLES

**• CABLES DE REFORZADOR •**

Professional quality with four gauge copper wire, "FLEXI-SPRING" cable guard and fully insulated clamps with side terminal adapters.

	LENGTH	GAUGE	CLAMP RATING
ASO-6157	12 feet	4 GA.	500 Amps
ASO-6159	15 feet	4 GA.	500 Amps
ASO-6160	20 feet	4 GA.	500 Amps

**ASSOCIATED**


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**ASSOCIATED**

## PROFESSIONAL TYPE REPLACEMENT SAFETY CLAMP

**• GRAMPAS DE SEGURIDAD SUSTITUTOS •**

Designed to carry their recommended current ratings safely. Clamps have heavy plastic insulation which will not peel. Powerful jaws bite hard on top and side terminal batteries. Equipped with solid copper jaws and flexible spring guards. Sold in pairs.

	AMP RATING	FOR USE WITH COPPER GAUGE	SPRING GUARDS
ASO-6202	500	3, 4, 6	Yes
ASO-6205	800	1/0, 1, 2	Yes


**ATD**

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**ATD**

## BOOSTER CABLES

**• CABLES DE REFORZADOR •**

All ATD booster cables are made from welding copper and PVC coating for flexibility and tanglefree use in extreme weather.

	GAUGE	LENGTH (FT.)	AMP RATING	WEIGHT
ATD-7972	4	16	400	7.6 lbs.
ATD-7973	4	20	500	9.5 lbs.
ATD-7975	2	20	600	30.8 lbs.


**ATD**

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**ATD**

## REPLACEMENT CLAMPS

**• GRAMPAS SUSTITUTOS •**

For booster cables or battery chargers. Sold in pairs.

	AMP RATING	WEIGHT
ATD-7978	500	1.0 lbs.
ATD-7979	600	1.4 lbs.



# PLUG-IN STARTER SYSTEMS



## **ASO-6139 Standard System** (Sistema Estándar)

Starts more cars conveniently, faster and safer. Socket mounts onto truck bumpers and connects to battery, 30-ft. 4AWG cables reach stalled vehicles in front, back or to the side of service truck. Insulated 500-Amp clamps feature patented safety lite to warn operator before reversed connection is made.

- |                 |   |
|-----------------|---|
| <b>ASO-6125</b> | <b>Flush Mount Power Socket</b>         |
| <b>ASO-6137</b> | <b>Replacement Power Socket</b>         |
| <b>ASO-6138</b> | <b>Replacement Plug-in Cables</b>       |
| <b>ASO-6207</b> | <b>Replacement Polarized Lexan Plug</b> |

## **ASO-6146 Extra Heavy Duty Jumpstart System** (Sistema Arrancador - Trabajo Extra Pesado)

Features 25-ft. 1AWG gauge cables and insulated 800-Amp clamps with potential safety lite to warn operator against reversed connection.

- |                   |                           |
|-------------------|---------------------------|
| <b>ASO-61024</b>  | <b>Polarized Plug</b>     |
| <b>ASO-610245</b> | <b>Polar Power Socket</b> |
| <b>ASO-610321</b> | <b>25' Cables</b>         |

## **ASO-6200 Booster Cable Side Terminal Adapter** (Adaptador de Terminal de Cable de Reforzador)

Fits Associated and most other insulated clamps for easier connections.

## **ATD-7974 25-Ft Service Truck Quick Plug-In Jumpstart Cables** (Cables Arrancadores de Conexión Rápida para Camión de Servicio 25 pies)

Four-gauge cables stay flexible in the most frigid conditions. Features 600-amp clamps. (11.8 lbs)



# POWER INVERTERS

Convert your vehicle's 12V DC system into a 110V AC power source that's great for traveling, camping & more! All have multiple AC grounded receptacles & overload & short-circuit protection.

Appliance	Watts						
Stackable Washer/Dryer	2200						
Electric Chain Saw	1700						
Electric Circular Saw	1600						
Toaster Oven	1500						
6 Hp Wet/Dry Vacuum	1440						
Full Size Microwave	1400						
Mini Microwave	1000						
1/3 Hp Submersible Sump Pump	920						
Coffee Maker	800						
Reciprocating Saw	720						
1/2" Reversible Drill	620						
Finish Sander	420						
Ind. Orbital Grinder/ 3/8" Drill	320						
20" Color TV/VCR Combo	300						
Halogen Spotlight	250						
12" 3-Speed Fan	231						
13" Color TV	72						
CD Changer/Mini System	60						
Laptop Computer	43						
Camcorder/Cell Phone Charger10	24						
14V Cordless Drill Charger	8						

\*Check your appliance for actual power requirements.

## VEC-041D 95 Watt Power Inverter (Inversor de laEnergía de 95 Vatios)

Convert vehicle's 12V DC to 110/120V AC household power. Compact design plugs into cigarette lighter and adjusts 45° for convenience. Low power consumption provides longer battery life, and low battery shutdown prevents total battery drain.



VECTOR VEC-041D



**KDT-104**  
KD Tools.



**KDT-3197**  
KD Tools.

### **KDT-104 Distributor Clamp Wrenches**

Reach around obstructions to turn distributor lock nut with this double ended wrench. Each comes with two wrenches and 3/8" adapter. Use to install or adjust distributor. Fits 1/2" and 9/16" lock nuts. Fits most popular sizes of distributor lock nuts.

### **KDT-3197 5.5mm Ford Distributor Module Socket**

Easily removes and replaces mounting screws on Ford ignition modules that are attached to the distributor without removing the distributor. Use with 1/2" open or box wrench, or 1/4" square drive 1/2" hex socket. Plated for corrosion resistance.

### **KDT-2423 Two-In-One Current Indicator**

For 6, 12 and 24 volt systems. Measures both alternator and starter DC current and indicates direction of current flow without breaking into lines. Just hang meter on wire. Gauge is color coded to correspond with alternator and starter current readings. High visibility gauge. Compact design. Heavy duty construction. Starter current scale: 600-0-600. Alternator current scale: 75-0-75.



**KDT-2423**  
KD Tools.

### **REMOTE CONTROL STARTER SWITCH**

#### **• INTERRUPTOR DE MOTOR DE ARRANQUE DE CONTROL REMOTO •**

Use to bypass ignition switch on any engine with a solenoid starter switch. Lets you crank engine while working in engine compartment. Extra long leads. Heavy-duty construction. Connect from positive terminal of battery to energizing terminal of solenoid. Use for generator, starter, and electrical tests, setting ignition points, fuel pump tests, adjusting tappets and compression tests. 6 and 12 volt use only.

**KDT-124**  
**LIS-20750**

**KD Tools**  
**Lisle**



**KD Tools.** **Lisle.**



# IGNITION TOOLS



A

Lisle

THEXTON



B

TOOL AID



KD Tools

KASTAR  
Hand Tools

C



CTM-66331

A

## ADJUSTABLE IGNITION SPARK TESTER

• PROBADORES DE CHISPA DEL ENCENDIDO AJUSTABLE •

Works on ignition systems from high energy electronic automotive systems to small engines. Test for no start conditions and for spark strength. Adjustable gap allows for different spark gap requirements of different ignition systems from 0 to 40,000 volts. Gauge background makes spark easy to see for accurate measurement. Alligator clip securely fastens to ground. Screw assembly adjusts spark gap quickly and easily. Includes safety shield.

LIS-50850  
THX-404

Lisle  
Thexton

B

## IN-LINE IGNITION SPARK PLUG CHECKERS

• PROBADORES DE BUJÍA DEL ENCENDIDO EN LINEA •

Flashing bulb indicates ignition or fuel delivery problem. Connects between spark plug and ignition wire. Works on all ignition systems.

SGT-23900  
SGT-23920

In-Line Spark Tester  
90° Angled In-Line Spark Tester

C

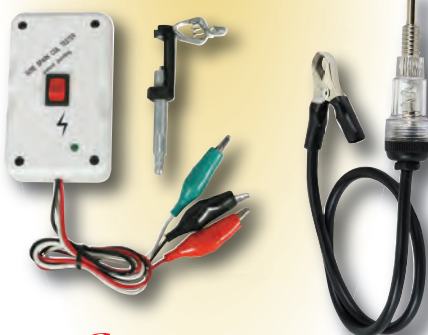
## FORD IGNITION MODULE WRENCH

• LLAVES DE MÓDULO DE ENCENDIDO DE FORD •

Specially designed 25 degree offset ratcheting dual-ended wrench with 7/32" hex (5.5mm) on one end and a T20 Torx® bit on the other.

KAS-FM720A  
KDT-3410

Kastar  
KD Tools



Lisle  
LIS-50660



TOOL AID  
SGT-23950

## CTM-66331 Ignition Firing Indicator (Indicador de Fuego del Encendido)

Detects ignition firing without piercing or removing spark plug wires. Sensitivity adjustment allows isolation of specific plug wires. Works with DIS and conventional ignition systems.

## LIS-50660 Coil Tester (Probador de Bobina de Encendido)

Use on the car or on the bench to quickly and accurately test ignition coils. To check an ignition coil, connect the tester to the coil. Set the spark tester (included with the tool) at 30kV gap. Turn on the ignition, then press and release the coil tester switch. A functional coil will produce a spark that bridges the 30kV gap on the spark tester.

## SGT-23950 Coil on Plug Ignition Spark Checker (Probador de Chispa del Encendido Tapón con Bobina)

A quick way to troubleshoot the contemporary "coil on plug" ignition systems found on General Motors, Chrysler, Ford and import vehicles. Flashing bulb indicates ignition or fuel delivery problem. Quickly plugs into boot on coil then clips to ground. Shows a duplicate view of the ignition spark so technician can visually check condition of ignition system at each cylinder. Frequency and intensity of flash indicates whether there is an ignition system problem or fault in the fuel delivery system.

# SPARK PLUG TESTERS



## **LIS-26900 Spark Plug Wire Tester** (Probador de Cable de Bujía)

Now you can check spark plug wires without piercing the wires. Features light flashes indicating a good wire. No shock hazard.

## **WAE-76562 7" Coil Over Plug (COP) Quick Probe** (7" Probar Rápido de COP)

The fastest way to verify the firing of a COP ignition coil and spark plug. It eliminates the need for back-probing coil wires and disassembly to test at the coil connector or spark plug. Offers variable sensitivity for greater diagnostic accuracy and expanded application coverage. Battery operated with super bright LED kV strobe, and green LED arc indicator. Now features adjustable sensitivity knob.

## **WAE-76760 KV/ARC Quick Probe** (Rápido Sensor KV/ARC)

Simply place the probe over the ignition wire on distributor and DIS systems. LED flashes each time a spark fires. Also measures and displays peak kV on the LCD display, determines if the secondary ignition is firing consistently, intermittently misfiring or not firing at all, indicates spark polarity on DIS systems, and detects problems caused by faulty wires, plugs, cap, rotor, coil(s), etc.



## **IGNITION TESTERS**

### **• PROBADORES DEL ENCENDIDO •**

Check for spark without removing spark plug from engine. Tester accepts spark plug lead and clamps to ground. Will spark when engine is cranked only if correct energy level is present. No spark indicates ignition system problem.

### **For HEI Systems:**

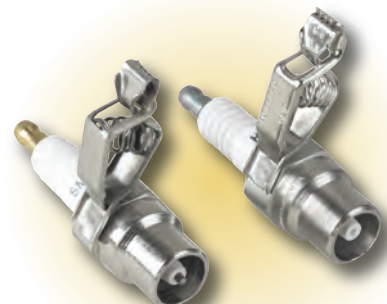
**KDT-2756**

**OTC-6589**

### **For Standard Ignition Systems:**

**KDT-2757**

**OTC-6588**



# CIRCUIT TESTERS



ASO-8540

ATD-5500  
ATD-5501KDT-126  
KDT-129KDT-2646  
KDT-2649

LIS-24550



LIS-25600



LIS-26250



LIS-28640

## ASO-8540 TECH-CHEK Advanced Starter Circuit Tester (Avanzado Probador TECH-CHEK Inicador de Circuitos)

Allows hands free operation while the technician starts the vehicle. Indicates a good connection to the points being monitored, tests battery voltage, monitors 4 connection points at one time to expedite the testing process, holds the status of all poor connections until the Tech-Chek is reset, allowing the technician to analyze the results, and will automatically switch to the 24-volt setting if battery voltage is detected above 16 volts. Includes test lead set.

## ATD-5500 Primary Circuit Tester (Probador del Circuito)

6 and 12 volt. Locates shorts, open circuits and grounds. Use with ignition on. Clip to ground anywhere on vehicle and use probe to make contact with wire or cable being tested. Bulb indicates condition of circuit.

### ATD-5506 Replacement Low Voltage Bulb

## ATD-5501 High/Low Voltage Trouble Shooter

Two testers in one. Check spark plugs on secondary or high voltage circuits. Check breaks in radio resistant hook-ups and pin points cracks in distributor caps. Also use as a continuity tester for low voltage circuits. Equipped with 36" leads.

### ATD-5507 Replacement Low Voltage Bulb

## KDT-126 High-Low Voltage Tester (Probador del Circuito de Alta y Baja Voltaje)

Checks 6 and 12 volt circuits for voltage and spark plug for spark. Ground clip and touch probe to point being tested. Tester bulb will light if voltage present. Screw probe into opposite end of handle to check for spark.

## KDT-129 Low Voltage Circuit Tester (Probador del Circuito de Baja Voltaje)

Tests for voltage in 6 and 12 volt systems. Ground clip and touch probe to point being tested. Tester bulb will light if power present.

## KDT-2646 Low Voltage Circuit Tester (Probador del Circuito de Baja Voltaje)

Quickly locates headlight, tail light and turn signal circuits, faulty sockets, connections, fuses and broken wires. Tough, durable shock-resistant case. Includes bulb at each end. Switch probe if bulb burns out. Cable length 36".

## KDT-2649 Circuit and Spark Plug Tester

Checks 6 and 12 volt circuits for voltage and spark plugs for spark. Place probe on end with regular bulb to check low voltage. Place the probe in end with neon bulb to check for spark voltage. 36" cable. Shockproof case.

## LIS-24550 Computer-Safe Circuit Tester

Won't damage automotive computers or sensitive electronic components, and even indicates polarity. Draws less than 21 mA at 12V DC. Operating range 3-28V. (.5 lb)

### LIS-24560 Replacement Bulb

## LIS-25600 Handy Hooker Circuit Tester

Hooded probe protects your fingers and automatically centers the wire. Small size allows easy use even in the tightest places. Quickly test low voltage up to 28 volts. Alligator clip grounds tester. Skin-packed. (3 oz.)

## LIS-26250 Circuit Tester (Probador del Circuito)

Quick check both AC and DC current up to 28 volts with the power on. Helps locate shorts or breaks in wiring. Complete with insulated grounding clip. Skin packed. (3 oz.)

### LIS-26270 Low Voltage Bulb

## LIS-28640 Ultimate Circuit Tester Kit

Tests low voltage up to 28 volts. Also finds electrical shorts checks polarity detects battery drain, and checks circuits from a distance. Heavy-duty coil cord extends over 8 feet. Detachable spring-loaded hook pulls the center of the wire into the probe every time. Attach alligator clip to the probe when a clip-on connection is needed.





**TOOL AID® SGT-21000**



**SHE-FF310**



**THEXTON  
THX-121**

## **SGT-21000 "Chek - Point" Circuit Tester** (Probador de Circuitos)

Quickly checks all 6 and 12 volt systems. Use to locate shorts, grounds and open circuits. Supplied with 48" ground wire.

## **SHE-FF310 Fault Finder** (Examinador de Defectos)

Locate short circuits, open connections, broken wires, current leaks and even trace wires from several inches away, even when the wires are inside conduits, harnesses, or behind panels and upholstery. Functional from 6-42V, it requires only connecting the transmitter in series with the circuit or wire under test, and scanning with the tracer's flexible probe to find the trouble spot. Includes 3 sizes of socket fuse connectorse.

## **THX-121 WireHawk® Circuit Tester** (Probador de Circuito de WireHawk®)

Requires just one hand to test in hard to reach areas. For 12V and 24V circuits.



**ATD**

**Lisle**

**A**



**ATD**

**ATD-5623  
ATD-5624**

## **HEAVY-DUTY CIRCUIT TESTERS** • PROBADORES DEL CIRCUITO PARA USO PESADO •

Easily checks 6 and 12 volt systems. Has 5 ft. heavy duty lead. Tough plastic handle lights up if circuit is good. Lead remains flexible in low temperatures. Tests low voltage up to 28 volts.

**ATD-5513**

**ATD Tools**

**LIS-28400**

**Lisle**

**LIS-28440**

**Bulb & Spring for LIS-28400**

## **ATD-5623 Heavy-Duty Circuit Tester with 7" Long Probe** (Probador de Circuito para Uso Pesado con Punto Largo de 7")

- Acetate handle
- Coiled lead wire

## **ATD-5624 Heavy-Duty Circuit Tester with 5" Long Probe** (Probador de Circuito para Uso Pesado)

- Acetate handle lights up when circuit is good
- Coiled lead wire stretches up to 9'

## **SGT-27000 6/12V Heavy-Duty Circuit Tester** (Probador de Circuitos para Uso Pesado 6/12V)

Made to last longer than anyone's lifetime! Use it to troubleshoot electrical circuits like any other circuit tester, but it is especially valuable because it will fit and work in confined crowded areas like under hoods and dashboards of modern cars and trucks. • 6' ground wire remains flexible in cold temperatures. Special overbite alligator clip designed to stay put! • Sharp, nickel plated piercing probe

## **SGT-27300 Heavy-Duty Circuit Tester** (Probador de Circuitos para Uso Pesado)

Quickly and easily check electrical circuits and accessories on 6V and 12V systems. Includes 12' retractable wire and super sharp probe.

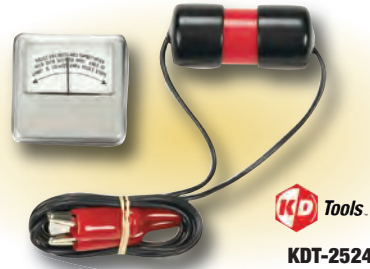


**TOOL AID®  
SGT-27000**



**TOOL AID®  
SGT-27300**

# CIRCUIT TESTERS



## CONTINUITY TESTERS • PROBADORES DE CONTINUIDAD •



Tests all 6, 12 and 24 volt DC circuits and grounds. Test all voltage circuits with power disconnected. Useful for testing appliances and electrical circuits. Bulb lights to indicate shorts. Perfect for RVs, marine and automotive circuit checks. Nickel plated high carbon steel tip.

**ATD-5502**  
**KDT-2647**  
**LIS-26200**

**ATD Tools**  
**KD Tools**  
**Lisle**

### **KDT-2524 Short Circuit Detector** (Detector de Cortocircuito)

Locates shorts in 6 and 12 volt circuits without removing upholstery, body panels, etc. Operates through metal door posts, rocker panels and upholstery. Easy to follow instructions included.

### **PWP-PPCT ScreaM'N Continuity Tester & Voltage Detector** (Probador de Continuidad y Detector de Voltaje de ScreaM'N)

Self-powered, audible indicator with 3-level continuity testing. Features adjustable volume, built-in flashlight, and automatic shut-off. It emits two distinct tones enabling you to differentiate between circuits above or below 10 ohms, and also emits a warble tone when it detects over 6 volts. Includes 10 ft. long green lead, 10 ft. green extension lead. Powered by two AA batteries.

## CORDLESS CIRCUIT TESTERS • PROBADORES DEL CIRCUITO SIN CUERDA •



### **AST-7760 Cordless Circuit Tester** (Probador del Circuito Sin Cuerda)

Test DC-powered circuits between 3V and 28V. Does not require ground wire or clip and is safe with ECMs, sensors, transducers, airbags, etc. Special V-Tip needle allows safe piercing and prevents side-slipping when piercing wire's insulation. V-Tip can be removed to test hard to reach places.

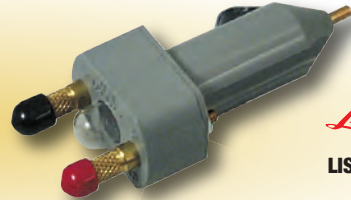
### **Cordless Circuit Testers** (Probador Profesional del Circuito Sin Cuerda)

Computer safe circuit tester. Will not harm vehicle microcontrollers if wrong wire checked. 3 way signal: buzzer, light and vibration

**ATD-5503 Economy**  
**SHE-8002 Professional**



**Lisle**  
**LIS-28850**



**Lisle**  
**LIS-32150**

## **LIS-28850 Circuit Tester Pliers** (Alicates para Prueba de Circuito)

Tests low voltage 6-28V with dual probes. The first probe flips out enabling you to check hard-to-reach connections and can be flipped back when not in use. The second probe with centering V design allows you to penetrate the center of the wire every time. Fits 16 gauge and smaller wire. Safe for use on 12V automotive computer circuits. Tool draws less than 19 mA. at 12 volts DC with an operating range of 6-28V.

## **LIS-32150 Power/Ground Outlet**

Provides a convenient electrical ground and power source from the vehicle. Plug the tool into the cigarette lighter or power accessory receptacle. You now have a ground and power source on the dash. The plug light will come on to signal the plug is properly connected and both power and ground are available at the posts. For power, connect to the positive (+) terminal. For electrical ground, attach ground wire from the instrument to be grounded to the negative (-) terminal.

## **LIS-26270 Replacement Bulb**

## **LIS-46950 Relay Puller Pliers** (Alicates para Extractor de Relevador)

Removes electrical relays on most domestic and import vehicles. Specially designed tips are angled to fit slots or edge of relay cover to allow relay to pop free from socket with less chance of damaging the relay. Also works on many heavy-duty and industrial applications. (5oz.)



**Lisle**  
**LIS-46950**



A

## **30 AMP FUSE BUDDY TESTERS**

• PROBADORES DE FUSE BUDDY 30 AMPERES •

Blowing fuses? Plug in the Fuse Buddy and read the circuit amperage draw. Original fuse is replaced in-line during testing, thereby maintaining circuit protection. Great tool for electrical troubleshooting at the fuse box, and can even be used to test parasitic drains (battery drains).

**ATD-5524**  
**ATD-5525**

**Mini Fuse Tester**  
**ATC Blade Tester**



**ATD**  
**A**

B

## **FUSE BUDDY CURRENT LOOP**

• LAZO DE CORRIENTE DE FUSE BUDDY •

Provides easy testing access, plugs right into fuse socket, and no more hand-made adapters. Can be used to diagnose a variety of amperage draw problems just by clamping probe over the loop with testing range of 0-30 Amps. Also handy for installers needing to monitor circuit amperage limits.

**ESI-307M**  
**ESI-308B**

**Mini**  
**ATC Blade**



**ES**  
**B**

C

## **FUSE BUDDY DMM ADAPTERS**

• ADAPTADORES PARA MULTÍMETRO DIGITAL DE FUSE BUDDY •

Adapts your digital multimeter to plug directly into fuse socket. Measuring range is determined by your DMM (most have a 10 Amp or 20 Amp test range).

**ESI-301M**  
**ESI-303B**

**Mini Fuse Adapter**  
**ATC Blade Adapter**



**ES**  
**C**



# FUSE SAVERS®



**IPA** IPA-8016



**Lisle**  
LIS-56810



## **IPA-8016 Fuse Saver® Master Kit (Kit Maestro de Fuse Saver®)**

Allows you to move around the vehicle and check for electrical shorts without continuously blowing fuses. Plug the Fuse Saver into the blown fuse socket and troubleshoot. Includes 5, 10, 15, 20 and 30 amp breaker handles, 10 ft. cord with the dual connector, BuzzAlert™ module, and the complete Fuse Box adapter set, all in one custom case.

## **LIS-56810 Relay Test Jumper Kit (Kit Del Puente De La Prueba Del Relais)**

Set includes four jumpers to fit the most popular size relays on domestic and import vehicles. Simply remove relay to be tested, insert correct jumper and insert relay into jumper. When using green four pin jumper be careful to align pins on jumper and relay correctly. No need to pierce wires or connect multiple jumper wires. Jumpers have tabs for clamping and flat pads to place test leads on. (9 oz.)



**PWP-PP219FTC Power Probe II Kit**  
(Kit de Power Probe II)

Includes a 20' extension for longer vehicles such as motor homes and trailers, cigarette lighter adapter, 9" extension probe and carry case.

**PWP-PP219** **Power Probe II Only (12-24 Volt)**

**PWP-PP3LS01 Power Probe III Lead Set Combo**  
(Set de Power Probe III)

Includes Power Probe III, cigarette lighter adapter, 3' probe tip, instructional DVD, battery hook-up clips, 20' extension lead, alligator clip adapter, 1', 3', & 6' cables, male & female adapters, and large & small piercing probes.

**PWP-PP319FTC** **Power Probe III Only**

**PWP-PPACC01 Accessory Kit with Case**  
(Kit de Accesorios con Caja)

Includes 20 ft. extension, cigarette lighter adapter, and 9" extension probe.

