

COOLING SYSTEMS**Cooling System Testers**

Astro
**AST78585****Radiator Pressure Tester and Vacuum Type Cooling Kit with 78581 Adapter**

- Allows for easy testing for leakage in radiator system and quick change of coolant
- Unit is suitable for domestic and import vehicles
- Color coded radiator test caps make it easy to choose the suitable test cap for the job
- Special design of vacuum purge and refill tool connection fits nearly all type of radiator opening

Set Includes: Pressure testing pump with hose, quick coupler with pressure release, and gauge: test range 0-35 psi (0-2.5 bar); 1 piece blue and 1 piece black radiator cap test adapters to test for original radiator cap leakage; 17 pieces test caps for testing cooling systems on most domestic and import vehicles; vacuum type cooling system purge and refill tool kit for quick change of coolant; universal adapter; temperature gauge and a blow molded case.



*Air Conditioning Products
Tools and Equipment*

**FJC43664****Radiator & Cap Pressure Tester Kit**

- For use in pressure testing Radiator caps and radiators
- For use with most domestic and import autos and light trucks

Kit includes: FJC43700 - Thermometer, FJC43701 - Hand Pump, FJC43802BK - 123/124 Cap Adapter Black, FJC43802BL - 123/124/ Cap Adapter Blue, FJC43703 - 2-1/4" Tester Adapter, FJC43705 - 1-5/8" Tester Adapter, FJC43704 - 1-3/4" Tester Adapter, FJC43806 - Tester Adapter Dard Pink, FJC43807 - Tester Adapter Orange, FJC43808 - Tester Adapter Purple, FJC43809 - Tester Adapter Purple, FJC43810 - Tester Adapter Gray, FJC43811 - Tester Adapter White, FJC43812 - Tester Adapter Sea Green, FJC43813 - Tester Adapter Light Pink, FJC43814 - Tester Adapter Blue, FJC43815 - Tester Adapter Camo Green, FJC43816 - Tester Adapter Blue, FJC43817 - Tester Adapter Neon Green, FJC43818 - Tester Adapter Light Blue, FJC43819 - Tester Adapter Small Yellow, FJC43820 - Tester Adapter Brown, FJC43821 - Tester Adapter Large Yellow, FJC43822 - Tester Adapter Green, FJC43848 - Universal Coupler Adapt, FJC43849 - Coolant Refill Assembly and FJC43816 Cap Wrench in a Blow Molded Case.

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*Air Conditioning Products
Tools and Equipment*

**FJC43658****Radiator and Radiator Cap Pressure Test Kit**

- For use in testing radiators
- For use in testing radiator caps
- Confirms radiator leaks
- Confirms cooling system leaks
- Test radiator caps for proper operation

**KTI71110****Radiator Pressure Tester Kit with Case**

- Kit contains 21-pieces
- Pressure tester to check leakage of radiator
- 0-35 psi, color-coded gauge with pressure release valve and all adaptors come in a plastic carrying case
- Comprehensive operating instruction enclosed

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COOLING SYSTEMS**Cooling System Testers****mityvac®****MITMV4535****Cooling System Air Evac and Refill Kit**

- Quickly refills automotive cooling systems and eliminates trapped air and detects leaks
- Universal adapter forms an airtight seal with all radiator and coolant bottle necks • No custom adapters required
- Patent Pending Valve Coupler provides multiple test capability and flexibility to access tight areas
- All components assemble using quick-connects for safe and easy set up and breakdown
- Kit includes: 2-1/2" (65 mm) diameter diaphragm style vacuum gauge, compressed-air-operated Venturi Vacuum, valve coupler, universal cooling system adapter, (2x) 30" (760 mm) extension hose, 5' (1.5 m) coolant refill hose, custom molded case, and user's manual



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**MITMV4534****Universal Cooling System Test Kit**

- High-volume hand-operated pump builds pressure quickly to locate leaks
- Universal cooling system adapter replaces more than 20 individual adapters for cars, vans, light- and heavy-duty trucks
- Patent-pending adapter cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Large, easy-to-read 2.5" diameter gauge includes clearly indicated pressure test zones
- Convenient push-button valve safely relieves pressure when testing is complete
- Includes hand pressure pump w/ 2.5" diameter gauge with push-button pressure release valve, universal radiator test adapter, custom-molded case, user manual (English, Spanish, French)

mityvac®**MITMV4525****Coolant System Test, Diagnostic and Refill Kit**

- Patent pending coupler combines pressure, vacuum, and temperature testing capabilities in one kit
- Test cooling system with engine on or off to pinpoint leaks or diagnose blown head gaskets, cracked block, or damaged head(s)
- Refills cooling system in minutes without trapping air that can cause overheating
- Includes four (4) adapters for connecting to the most common radiator and coolant bottle necks found on domestic and Asian automobiles

MITMV4530**Cooling System Pressure Test Kit****MITMV4560****Radiator / Cooling System Pressure Test Kit**

- Economical, accurate and simple method to find common causes of overheating
- Pinpoints external leaks caused by loose clamps or leaky hoses, connectors, water pumps or radiators
- Diagnoses internal leaks caused by a blown head gasket or damaged block or head
- Test radiator and coolant bottle caps to ensure they are maintaining the correct pressure
- Contains adapters to test the cooling system and caps of most US and Asian manufactured cars
- User Manual (English, French, Spanish)



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MITMV4510**Motorcycle Cooling System Test Kit**

- Durable, lightweight, non-corrosive PVC construction
- Pivoting lever action maximizes output with minimal operator effort
- Gauge displays psi and kpa units
- Powerful in-line piston design
- One finger lever-action vacuum release



COOLING SYSTEMS**Cooling System Testers****OTC****OTC7991**
Cooling System Pressure Tester

- Now you can pressure test the cooling system on most cars, light commercial trucks, motorcycles, and even marine applications
- The tester's universal fit eliminates the need for multiple adapters

Note: Will not work on Saturn and Kia cars or Jeep with the plastic reservoir.

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OTC**OTC6977**
Universal Cooling System Pressure Tester

- Hand pump with integrated gauge
- 4 adapters (1/4", 5/16", 1/2" and 5/8") with Schrader valves to prevent spray
- Dedicated pressure hose with quick-connect
- Raised gauge to reduce chance of damage if tipped
- Includes a cap adapter

OTC**OTC6975**
Vacuum/Pressure System Tester

- 2-way pressure and vacuum test functions
- Intuitive rotary dial mode switches from pressure to vacuum with a simple click
- Integrated rear mount gauge and optimal viewing angle
- High quality silicon material hoses with quick couple fittings
- Lifetime warranty

**OTC5039**
Charged Air Cooler Tester

- This is the easy way to find air leaks in the charged air cooler systems used on class 7 and 8 truck engines
- Features a large 2-1/2", 0-60 PSI pressure gauge, regulator and relief valve, and two safety cables
- Also has quick disconnect air fittings that attach to a 3", 3-1/2", or 4" cooler hose

HICKOK **WAEKON**
QUALITY • SERVICE • INNOVATION • VALUE

**WAE62968**
Heavy Duty Cooling System Test and Adapter Kit

- One piece all aluminum adapters that last a lifetime
- Quick disconnect hook-up design minimizes set up time
- Uses shop air to maintain constant system pressure
- Lifetime Warranty on adapters

COOLING SYSTEMS

Cooling System Testers

Stant



STN12270

Cooling System and Pressure Cap Tester

- Allows you to test today's car's higher pressure cooling systems and pressure caps up to 30 lbs.
- The gauge includes new cap testing pressure ranges of 17-19 lbs., 20 lbs., and 28-30 lbs.
- The larger color coded dial makes it easy to accurately test these higher pressure caps and systems
- Also includes a pressure release bar that, when turned clockwise, releases pressure buildup before removing the head from the neck

Includes: (1) 12559 spacer to drop in 1" deep filler necks for testing; (1) 12552 cap adapter to check standard "A" size caps, and a complete easy to use instruction manual.

STN12450

Truck Radiator Adapter Set

- Includes 2 solid die-cast chrome plated cap and radiator adapters
- (1) 7/8" plug #12451 (A 450 1)
- Fits all popular trucks with the larger diameter (2-11/16" O.D "B" size) filler neck



REDLINE
DETECTION.COM

THE WORLD'S BEST SELLING DIAGNOSTIC LEAK DETECTION



Made in U.S.A.



RDL95-0700

Universal Cooling System Test Kit

- The true universal cooling system test kit
- Works on all passenger vehicles and light duty trucks
- Eliminates the need to buy costly adaptors for radiators
- Made from anodized brass, and high quality materials

Smart Fit universal cooling system test kit, is the one true universal adaptor set with cooling pump, Smart Fit eliminates the need to purchase unnecessary and overpriced cooling system test kits.



RDL95-0750

SmartFit Universal Radiator Adapter Set

- Works on the radiators of every car or light truck
- The last radiator adapter you'll ever buy
- Works with any standard cooling system pressure pump
- Professional technician grade -anodized aluminum, brass, case
- Also available with pump (RDL 95-700)



PBT70888

UniTest Cooling System Pressure Tester Deluxe Kit

- Patented inflatable bladder attaches to radiator or header tank for system testing
- NO system adapters required for cooling system pressure testing
- Fits bayonet and threaded filler necks on radiators or header tanks
- Universal attachment suits automotive, commercial, heavy duty, marine and motorcycle
- Includes radiator cap test adapters for testing 8 different radiator cap types

Fluid drain tube allows coolant to be returned to the coolant reservoir or safely collected in a container for recycling. Identifies cooling system pressure leaks. Pressure pump: 0-30 PSI gauge; bladder is cycle tested to over 1500 inflations. Suits neck diameters up to 45mm (threaded or bayonet).



COOLING SYSTEMS**Adapters**

ASSENMACHER[®]
SPECIALTY TOOLS
ASTTOOL.COM



Made in U.S.A.

ASSFZ1002
Cooling Adapter Set

- Applicable to many European vehicles
- Use with any standard slant-style pressure tester
- Carrying case included

This set contains the following adapters:
BMW345, FZ22, FZ25, FZ31, FZ41 and M0349



mityvac[®]



MITMV4508

Universal Radiator Adapter

- Compact universal alternative to application specific adapters required for pressure testing
- Replaces more than 20 individual cooling system pressure test adapters for cars, vans, light and heavy-duty trucks
- Patent-pending cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Compatible with Stant-style cooling system pressure pumps
- Includes Universal Radiator Test Adapter (1-piece)

TANK ADAPTERS

Part #	Application	Threads
ASSFZ22	Audi A8, 2001 S8, and 1975-1993 models with Male threads on exp. tank, Porsche 911 and Boxster, VW, Volvo trucks, Kenworth trucks	M48x3mm threads on filler neck
ASSFZ25	BMW i3, BMW V8 Twin Turbo Intercooler Coolant Reservoir, Dodge, Ferrari 350, 450 and 550 series with threaded tank, Jeep, Land Rover Freelander, Mini, Saab, Sterling, Volvo passenger vehicles and trucks with threaded necks	M47 x 3mm threads
ASSFZ32A	Buick Skylark, Cadillac Catera and Fleetwood, Chevrolet Cavalier, Dodge Ram, Cummins, Ford, Freightliner, International, Land Rover, Lincoln, Mercedes ML 320 and ML420, Mercury, Nissan Armada and Titan, Oldsmobile Aurora, Saturn LS	M52 x 2.5mm buttress threads
ASSFZ35A	Buick, Cadillac, Chevrolet cars and SUVs, Dodge Turbodiesel, Ford, Freightliner, GMC SUVs, Jaguar, Land Rover, Oldsmobile, Pontiac, Saab 9-3, Saturn	M52 x 2.5mm buttress threads
ASSFZ36	Buick, Cadillac, Chevrolet, Ford, Freightliner, GMC, International, Jaguar, Lincoln, Mercedes ML320 and ML430, Mercury, Nissan, Oldsmobile, Pontiac, Saturn, Sterling	M52 x 2.5mm buttress threads
ASSFZ41	Audi, Lamborghini Gallardo, Porsche 911 and Cayenne, VW	M63 x 3mm buttress threads
ASSFZ47	Ford, Land Rover LR2, Mazda, Volvo	M49 x 2.5 buttress threads
ASSFZ138	ATV, Marine, Motorcycle, Chevrolet, Chrysler, GMC, Honda, Isuzu, Lexus, Mazda, Mitsubishi, Scion, Subaru, Toyota	
ASSBMW345	BMW - 323i, 325i, 328i, 330xi, 540i, 740i, 745i, X3, X5, Z4, Z8 Land Rover - Discovery and Range Rover	M51 x 4mm Buttress threads
ASSBMW350	BMW - 128, 135, 320, 323, 325, 328, 330, 335, 525, 528, 530, 535, 545, 550, 640, 645, 650, 750, X3, X4, X5, Z4	M52 x 3mm buttress threads

COOLING SYSTEMS**Adapters**

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**STN12450****Truck Radiator Adapter Set**

- Includes 2 solid die-cast chrome plated cap and radiator adapters
- (1) 7/8" plug #12451 (A 450 1)
- Fits all popular trucks with the larger diameter (2-11/16" O.D. "B" size) filler neck

STN12042**64mm Volvo Truck System Adapter**

- Threaded cooling system testing adapter for use on most Volvo medium and heavy trucks

**STN12036****System Testing Adapter for VW/ Audi**

- Threaded cooling system testing adapter for use on many late model Audi and Volkswagen cars. Fits the same applications as the Stant 10249 pressure cap.

**STN12034****Ford Adapter for 12270 Cooling System**

- Adapter is used to test the cooling systems on the 1995-98 Ford Contour and Mercury Mystique, and the 2004-00 Ford Focus
- Works with 12270 Stant Cooling System Tester

**STN12016****48MM Truck System Adapter**

- Required to fit late model Audi, Porsche & VW cooling systems with threaded filler necks
- Works With 12270 Stant Cooling System Tester
- Thread specifications M 48 x 3
- Professional quality

**STN12024****Radiator Cap/Cooling System Tester Adapter, 44mm**

- Required to test small diameter (44mm O.D.) radiator caps and cooling systems as used on many late model Toyota and Lexus cars



STN12552
Radiator Cap
Tester Adapter
32mm ID Filler Adapter PTTA2
32mm ID 16mm deep



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YOUR JACK NEEDS ARE ANSWERED

KTI63133A
3.33 TON LOW PROFILE SERVICE JACK

Heavy-duty steel construction with a dual pump piston power unit that raises the saddle to load in just 1-2 strokes. At a low height of 3-3/4 in. and max height of 21-3/4 in., this is the answer for your service jack needs. The built-in valve prevents you from over-loading, so those little mistakes won't cost you a jack. But don't take our word for it, try one out for yourself today.

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COOLING SYSTEMS**Cooling System Refillers**

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**CTA7088****Coolant Filling Kit with Universal Adapter**

- Air bleeder line prevents bubbles and allows smooth flow
- 4 adapters fit most American, Japanese, and Korean cars
- Brass flow valve
- Clear plastic allows for easy fluid viewing
- Adapter 7082 converts pressure tester adapters to filling adapters

Refill and top off cooling systems quickly and easily during bleeding process. Filler Cone features brass flow valve, air bleeder line and built-in handles.

**LIS19342****Multi-Application Oil Funnel**

- Helps eliminate oil spills when refilling crankcases, especially those with baffle valve covers
- The 1.6 qt. translucent funnel comes with seven different color-coded adapters and a 45° elbow to work on many applications and save valuable storage space
- Tethered lid and cap keep the funnel clean
- Use spout only as a standard funnel
- The adapters fit crankcases securely

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**LIS24680****Spill Free Funnel**

Includes adapter for use with threaded caps on Ford surge tanks, straight extension and an additional 45° elbow for hard-to-reach applications. Five adapters fit most domestic and import cars and light trucks. Includes threaded cap and adapter for newer GM "threaded style" radiator openings.

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**LIS24970****Spill Free Funnel**

- New Clear Funnel allows a quick visual check of the coolant from across the shop
- Colored adapters for quick identification
- Comes with a lid to keep contaminants out as well as store the caps and adapters
- Eliminates trapped air pockets which usually cause erratic cooling system and heater performance. It controls the proper amount of coolant entering system and enables unattended filling of the cooling system
- Five radiator adapters and five caps to fit most cars, pickups, trucks and many farm tractors including Audi, VW and Porsche overflow tanks with threaded caps

**MITMV4533****Cooling System AirEvac Kit**

- Universal cooling system adapter replaces more than 20 individual adapters for cars, vans, light truck
- Eliminates airlocks in vehicles cooling systems
- Check for leaks while system is under vacuum
- Patent-pending adapter cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Quickly refills system without trapping air that can cause overheating

Includes: Universal cooling system adapter with diaphragm gauge, brass flow control valve, and quick connect coupler, Venturi vacuum generator with muffler, Coolant refill hose with inlet screen, Custom-molded case, and User manual (English, Spanish, French)

COOLING SYSTEMS

Cooling System Refillers



OTC6976

Cooling System Refilling Gun

- Eliminates the need for system bleeding
- Utilizes deep vacuum technology to eliminate airlocks during cooling system refilling
- Universal attachment to most radiator and header tanks
- Integrated vacuum gauge automatically tests cooling system for leaks
- Small and large rubber cones to suit both passenger and commercial vehicles; no additional adapters needed



UVU550000

Airlift Cooling System Refiller

- Eliminate airlocks in vehicle cooling systems
- OEM approved worldwide
- Refills the entire cooling system including the Heater Core
- Eliminate time consuming bleeding and purging
- Checks for leaks while under vacuum

Kit includes: Venturi connector with hose; fill hose with filter; (4) sizes of rubber adapters; universal cone adapter and storage case.



UVU550500HD

Heavy Duty Airlift II

- Eliminates airlocks during coolant refills
- Extra long refill hose designed for Heavy Duty trucks
- Streamline design...no switching hoses
- Reinforced glass-filled nylon construction
- Universal cone adapter to accommodate all heavy duty vehicles



UVU550500

Airlift II Economy Refiller



KTI70706

Air Lift

Cooling System Refiller

- Cooling system vacuum purge & refill kit
- To pump radiator and cooling system liquids out of reservoirs
- Use vacuum to fill with new coolant into radiator
- Kit contains: Main body with gauge (-1 -0 bar, -76 -0 cmHg); Vacuum Pump; (3) Rubber Buses (OD 35, 39 & 44mm); Coolant Hose



KTI71041

7-pc Airvac Coolant Refiller

- Performs vacuum leak test on cooling system
- Refills cooling system free of trapped air quickly, efficiently and with no mess
- Muffler dampens noise output during operation
- Purges trapped air from cooling system to eliminate the possibility of engine damage due to overheating
- Covered by a 1-year warranty

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Cooling System Flush



OTC6043

"Blast-Vac" Multipurpose Cleaning Gun

- Perfectly suited for quick and efficient cooling system flushing
- Also usable in washing engines and even shop floors
- Two simple connections: one to shop air and one to a typical water faucet
- Creates a unique vortex air/water blast for powerful cleaning applications
- The tool can also be used to vacuum by turning the venturi inside the gun in the opposite direction; air flow is reversed to create a strong vacuum

COOLING SYSTEMS**Cooling System Dyes****UVUB483906****Radiator Coolant Dye**

- Specifically designed for standard glycol coolants (green)
- Convenient individual application bottles, 6 Bottles (1 oz./30 ml)
- Works with most UV lights
- Dye installed stickers included
- Pinpoint leaks in cooling systems, including Radiator, Hoses, Fittings, Water Pumps and Head Gaskets

UVview Ultraviolet Systems Inc. is the worldwide leader in the automotive aftermarket, since we first started tracking leaks in automotive air conditioning systems in 1996. Today, UVview is globally recognized for quality and innovations. This is designed to detect leaks in cooling systems that use standard glycol based coolant (green). Be the first customer to share their experience with this item.

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TRACERLINE®**TRATP39000601****Engine Coolant Dye - 1oz.**

- Case of (6) 1 oz. bottles for single billable servicing
- Services either 1 vehicle's radiator coolant system or 60 gallons of water per 1 oz bottle
- Finds leaks in radiators, hoses, water pumps and fittings
- Fluorescent color - green

Leak detection dye for all engine coolants and auto body leak checks. Works with any leak detection inspection lamp.

Refractometers**ROBINAIR®****ROB75240****Coolant and Battery Refractometer**

- Used for measuring the freezing point of either propylene or ethylene glycol based cooling systems
- Used for checking the strength of electrolyte solution batteries
- This precision instrument features high-quality optics with ultra smooth focusing
- Scale range: 32° F to -60° F
- It is used on transportation vehicles, such as cars, tractors, tanks, ships, etc., which use propylene or ethylene glycol for coolant and sulphuric acid for charging liquid
- It can also be used for checking the strength of electrolyte solution batteries.

Antifreeze Testers**CoolTrak™****CO0311519****CoolTrak® Coolant Test Strip -****50 Per Bottle**

- A fast, easy and reliable way to test engine coolant effectiveness
- With one simple dip, you can determine an engine's protection against freeze-up, boil over and acid buildup with a highly effective pH test
- CoolTrak® has been proven effective with the US military and has been approved for use by the U.S. Postal Service
- Test works with both ethylene and propylene glycol-based coolants

COOLING SYSTEMS

Antifreeze Testers

**EZRS102****Antifreeze Hydrometer**

- Tests ethylene glycol solutions
- Temperature compensating
- Obtain direct, accurate readings
- Wide range: +32° F to -60° F
- Fahrenheit and Celsius scales

**KT170211****Antifreeze Tester**

- Hydrometer immediately and accurately tests strength of all permanent solutions (ethylene glycol), with engine hot or cold, and includes temperature adjustment scale for accurate interpretation of mixture strength
- Assists in preventing winter freeze up and summer boil-over
- Two embedded scales show freeze point of radiator solution and boiling point of summer coolant
- +32° F thru -45° F



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**THX106****Cold-Chek® Disc-Type Anti-Freeze Tester**

- Large professional-size (16-1/4") tester is accurate at all temperatures
- Tests coolant, hot or cold
- Easy to read discs are magnified by convex design of the clear SAN plastic barrel
- Protection scale is printed in both Celsius and Fahrenheit
- Beyond 70% anti-freeze, cooling and corrosion effectiveness is reduced
- One-piece bulb and neoprene dip tub

This large professional-size tester has a special feature, the 6th disc shows overprotection and a loss of cooling efficiency. Made with the durability to last!

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**THX107****Cold-Chek® Propylene Glycol Anti-Freeze and Coolant Tester**

- Professional 16-1/4 disc-type tester is used to test propylene glycol based antifreeze in automotive radiators and fresh-water systems in RV's and boats
- Number of floating discs measures degree of protection at any temperature, discs are temperature compensated
- Readings in Celsius and Fahrenheit



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THX100**Cold-Chek® Propylene Glycol Anti-Freeze and Coolant Tester**

- For testing propylene glycol-based antifreeze in automotive radiators and freshwater system in RV's and boats
- Accurate to -50° F
- Ball float to show freeze protection
- Tests coolant hot or cold
- Pocket protector



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THX101**Cold-Chek® Anti-Freeze Coolant Tester**

- Tests to -34° - indicates optimal 50/50 mixture
- Original ball-type, specific gravity tester
- Special 6th ball shows overprotection and loss of cooling protection
- Number floating balls measures degree of protection
- Temperature compensating for testing with engine hot or cold
- Extra long neoprene dip tube; Complete with vinyl pocket



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THX102**Cold-Chek® Professional Anti-Freeze Coolant Tester**

- Sixth Ball shows overprotection with rugged safety shield
- The hexagon's professional model and the most popular Cold-Chek®
- The 102 has a rugged, chrome plated safety shield of ABS plastic
- Also used to test Dex-Cool®



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COOLING SYSTEMS**Hose Tools & Pliers****AP Astro****AST9406****7 Piece Hose Clamp Plier Set**

- Allows for extra reach, removal and locking of clamps into open position
- Allows for removal of plastic and/or metal self-tightening hose clamps with diameters of 11/16" - 2-1/2" (18mm-54mm)
- Precision clamp on end of flexible cable allows for extended reach where other models cannot reach
- Pliers can be locked, freeing up your hands and making your job easier & faster
- Rubber dipped handle • Pliers have a lifetime warranty

Set Includes:

- Flat Band Hose Clamp Pliers (AST9406G)
- Angled Flat Band Hose Clamp Pliers (AST9406D)
- Hose Remover Pliers (AST9406E)
- Swivel Jaw Hose Clamp Pliers ("+" Slot) (AST9406B)
- Swivel Jaw Hose Clamp Pliers (AST9406C)

**AST9502****2-Piece Hose Removal Hook Set**

- Two hook designs to fit between various fittings and hoses
- Tackle difficult to remove seals, heater and radiator hoses, transmission lines, and many other fixtures
- Works great when paired with Astro's 9409A Hose Clamp Pliers
- Durable Chromoly Vanadium construction
- Length: 210mm V Type and U Type

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AP Astro**AST9409A****Hose Clamp Pliers**

- Allows for extra reach, removal and locking of clamps into open position
- Allows for removal of plastic and/or metal self-tightening hose clamps with diameters of 11/16" - 2-1/2" (18mm-54mm)
- Precision clamp on end of flexible cable allows for extended reach where other models cannot reach
- Pliers can be locked, freeing up your hands • Rubber dipped handle



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AST94093**Multi-Cable Hose Clamp Pliers**

- Features 3 cables and 4 different jaw types and sizes for use on most automotive tension hose clamps
- Includes the standard jaws from Astro's 9409A, extra large and small jaws, and Clic-R clamp jaws.
- Easily switch out cable and jaw designs for different applications



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LANG
TOOLS
Professional Tools For **4 Generations**

**KAS1500****3 Piece Hose Pinch Off Pliers Set**

- Contains all three pliers, small, medium & large
- Self locking for firm grip
- 15 degree offset for hard to reach places
- Swivel jaws for positive pressure
- Comes in a plastic pouch • 1 year warranty

KAS1480 - Large **KAS1470** - Medium **KAS1460** - Small

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COOLING SYSTEMS

Hose Tools & Pliers

GW GEARWRENCH®



KDT82115

Hose Clamp Cable Pliers

- For flat band hose clamps with locking mechanism
- Coated handles

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KDT3975

Corbin Style Hose Clamp Pliers

- Dual dipped grip for comfort and force
- For Corbin (wire) style hose clamps
- Tips trap and hold clamp and swivel for multiple angle access



Hose Clamp Pliers

- Improved strength
- Easier to use locking feature
- Dual dipped grip for comfort and force

KDT3976

Straight Hose Clamp Pliers



KDT3977

Angled Straight Hose Clamp Pliers



KDT3978

Heavy Duty Large Hose Clamp Pliers

- Easier to use locking feature
- Dual dipped grip for comfort and force
- For flat ear style hose clamps
- Tips trap and hold clamp and swivel for multiple angle access

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KDT145

Radiator Hose Pinch-Off Pliers

- Tool can be used to pinch off some emission system hoses
- Pliers include automatic locking ratchet
- Do not use on wire-reinforced hose

These pinch-off pliers eliminate the need to drain cooling system when servicing. Pliers squeeze hoses shut, and jaws swivel for parallel clamping.

K TOOL® INTERNATIONAL



KTI71100

Hose Pinch Off Pliers

- Eliminates the need to drain systems when servicing cooling systems
- Pliers squeeze heater or radiator hoses shut and jaws swivel for parallel clamping
- Automatic locking ratchet
- May also be used to pinch off vacuum lines and fuel lines

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KTI71103

2 Piece Flexible Line Clamp Set

- Squeeze heater, radiator, vacuum or any flexible hoses to assist with repairs or diagnosing problems
- Clamps lock in place
- Set includes both large and small clamps

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Lisle®



LIS17000

17" Long Reach Hose Clamp Pliers

- Cross-cut tip grips most hose clamps from multiple angles
- Ratcheting lock mechanism holds the clamp in an open position for hands-free use
- Dual material grips for comfort
- Provides extra long reach

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LIS17370

35 Degree Hose Plier

- Provides an extra long reach and 35° angled tips for hard-to-reach hoses
- Cross-cut tip grips most hose clamps from multiple angles
- Ratcheting lock mechanism holds the clamp in an open position for hands-free use
- Dual material grips for comfort

COOLING SYSTEMS**Hose Tools & Pliers****Lisle**®**LIS80380****5 Piece Hose Remover Set**

- Contains long and short, standard and offset hooks
- Can be used to remove hoses, moldings, clips, clamps, seals, o-rings, cotter pins, gaskets, etc.
- Handles are dual durometer material for comfort and grip
- Rods are heat-treated for strength and plated for durability

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Lisle®**Hose Removers**

- Can be used to remove hoses, moldings, clips, clamps, seals, o-rings, cotter pins, gaskets, etc.
- Handles are dual material for comfort and grip
- Rods are heat-treated for strength and plated for durability

Product #	Type
LIS80210	Short Hose Remover
LIS80230	Short Offset Hose Remover
LIS80290	Short Double Offset Hose Remover

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Lisle®**LIS23000****Hose Pincher**

- Clamps and holds hoses up to 3/4" I.D.
- Angled jaws close to create a complete seal every time
- Jaws are offset for hard-to-reach areas
- The handles lock firmly to hold the jaws in a closed position
- Made of glass-filled nylon for extra strength

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**LIS37300****Fuel and AC Disconnect Pliers**

- Unique design provides extra leverage when disconnecting quick connect coupling air conditioning and fuel lines
- The pliers' forks have different sized openings so the tool can be turned around to fit single or two-step collar designed connector lines
- Can also be used to reconnect stubborn lines or connections that are in hard-to-reach areas
- Use with 5/16", 3/8" or 1/2" adapters from the Lisle 37000 or 39400 disconnect tool sets
- Also works with other fuel and A/C line disconnect tools

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LANG TOOLSProfessional Tools For **4 Generations****KAS854****2 Piece HD Hose Removal/Installer Set**

- Set includes straight and bent profile removers
- Rounded profile reduces gouging and puncturing of hoses
- For use on various hoses-radiator, heater, turbo, intake ducts
- Useful in the industrial, plumbing & HVAC markets
- USA Made

COOLING SYSTEMS

Hose Tools & Pliers



MAY28690

RIGIFLEX Cable Operated Hose Clamp Pliers

- Ratcheting hose clamp plier
- Flexes and holds to any desired position
- Reaches into tight places with little effort
- Easy to replace cable
- Lifetime warranty



MAY28620

90° Locking Hose Clamp Plier

- Works on spring clamps ranging from 3/4" thru 2-3/4"
- Heavy duty construction - Eliminates the need for cables and repair kits
- Patented ratcheting - Provides users with infinite locking positions
- Double hinged locking mechanism - Adds leverage for less user fatigue
- Locking lever - Features fine adjustment to prevent damage to plastic hose clamps
- Lifetime warranty



MAY28680

Professional Hose Clamp Pliers With Flex Cable

- Unique jaw design fits clamps up to 2" (51mm)
- Extra-heavy duty 5/64" (2mm) cable
- Bi-material grips with snap feature for compact storage
- Ratchet lock with slide guide
- Pivoting jaw piece



MAY45680

Mayhew Select Hose Clamp Pliers

- Unique jaw design fits clamps up to 2" (51mm)
- Extra- Heavy Duty 5/64" (2mm) cable
- Bi-material grips with snap feature
- Easy to replace cable
- Made in France



OTC4525

Flexible Hose Clamp Pliers

- Allows technician to access the flat-type hose clamps located in hard-to-reach areas
- Locking mechanism to hold clamp in the open position, making removal and installation of clamp easier
- Heavy duty 24" cable flexes to almost any position
- Pliers is spring loaded to the open position



OTC4502

2 Piece Hose Clamp Plier Set

- Includes a cross slotted jaw pliers and a wide, flat band hose clamp pliers
- Services most ring-type or flat-band hose clamps
- Clamps are held open with a ratchet locking mechanism
- Jaws swivel to access hose clamps in any position



OTC4510

3 Piece Hose Pinch-off Pliers Set

- Shuts off flow through vacuum lines, fuel lines, coolant lines, etc.
- Cocking ratchet mechanism holds pivoting jaws tightly in place
- Heavy duty swivel jaws pivot to assure parallel pinching



Set includes: OTC4510-8 8" tool for small hoses and tight areas; OTC4510-10 10" tool for radiator and vacuum lines; OTC4510-12 12" tool for radiator and vacuum lines.

OTC4524

45 Degree Hose Clamp Pliers

- Jaws are bent at a 45 degree angle and tips swivel to allow easy access to confined areas
- Ratchet lock mechanism holds jaws open
- Works on most flat-band hose clamps



COOLING SYSTEMS**Hose Tools & Pliers****OTC519157****GM Heater Line Disconnect Tool**

- Works on 1991 and newer GM vehicles with 3.1L, 3.4L, 3100, 3400, and 3800 V6 engines
- Same as Kent-Moore J-38723

OTC4521**Hose Removal Tool**

- Unique tip easily fits between hose and fitting to break stubborn hoses loose
- Large handle provides a reliable grip on tool during hose removal
- Works on radiator hoses, heater hoses, transmission lines - any place a rubber hose is clamped to a fitting

**OTC8260****6 Piece Hose Removal Set**

- Made of heat-treated, chrome steel with assorted tip shapes
- Ergonomic handle design fits properly in the hand, allowing for easier holding of the tool
- Can be used on upper and lower radiator hoses, clips, washers, gaskets and other items

Set includes: three 10", soft-handled tools and three 15", soft-handled tools, each with a hard end-cap.

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OTC6046**GM Heater Line****Quick-Connect Release Tool**

- Specially designed for separating quick-connect fittings on heater lines of 1999-2004 Chevy and GMC C/K trucks
- Tool snaps around the hose and simultaneously depresses the locking tabs to disengage the fittings



Application: C/K Truck. The 0.75" heater lines coming from the I.P. have quick connect style fittings.

**SGT19780****Hose Clamp Plier Set**

- 3 piece set to clamp fuel injection, brake, vacuum and cooling system hoses
- Smooth, rounded jaws prevent hose damage

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**SGT19750****Hose Clamp Pliers Set**

- Includes one cross slotted jaw pliers and one wide flat band hose clamp pliers
- For most ring type and flat band type hose clamps
- Jaws rotate to access hose clamps from any angle and to provide better gripping action
- Ratcheting locking mechanism holds clamps in open position for easy removal and installation
- Steel construction with handle grips

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

IRWIN**VICE-GRIP****VGP1773627****8" Hose Clamp Plier**

- Wire shearing feature
- Dipped rubber grips
- Machined jaws for maximum strength
- VISE-GRIP Lifetime Guarantee

**LIS11420****Hose Cutter**

- Cuts flexible hose up to 1-1/4"
- This hose cutter will clearly cut heater hoses, fuel lines, and other types of flexible hose up to 1-1/4"
- The stainless steel blade is reversible for double the life
- Plier is made of glass-filled nylon for strength

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

COOLING SYSTEMS

Radiator Tools



SCH91900

Radiator Drain Plug Socket

- This specialty socket has been designed to open and close most radiator drain plugs that have thumb wings
- In operation, this unique socket snaps on a 3/8" square drive extension allowing it to reach into confined areas
- Socket has a double slotted end that captures the thumb wings in order to turn the drain plug open or closed
- For use on most import and domestic cars, this tool is made from quality alloy steel and comes in a Schley high tech black finish

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CTA7057

10 Piece Radiator Pressure Tester Adapter Kit - US/Asian

- Radiator Pressure Tester Adapters to use with CTA #7050
- Use on most US/Asian vehicles
- Tests automotive pressurized cooling systems up to 30 PSI
- All metal construction
- Packed in blow-mold case

Includes: CTA7090, CTA7091, CTA7092, CTA7096, CTA7100, CTA7102, CTA7103, CTA7109, CTA7117 and CTA7118

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KTI75320

4 Piece Radiator Disconnect Tool Set

- Designed to completely fill the void in the connector to release the fastener
- 40° offset design to work around obstructions in tight spaces
- 4 sizes to depress clips from 5/8" to 1"
- Includes clips for use on Ford and GM vehicles

KTI75321 - Ford Radiator Disconnect Tool

KTI75322 - GM Radiator Disconnect Tool

KTI75323 - Large Radiator Disconnect Tool

KTI75324 - X-Large Radiator Disconnect Tool

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Air Conditioning Products
Tools and Equipment



FJC43658

Radiator and Radiator Cap Pressure Test Kit

- For use in testing radiators and radiator caps
- Confirms radiator and cooling system leaks
- Test radiator caps for proper operation

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

CTA7050

Radiator Pressure Tester Kit

- Pump with gauge
- 1/4" spacer washer
- 12" hose and cap adapter
- 3 radiator adapters

Tests automotive pressurized cooling systems up to 30 PSI. Kit includes pump with gauge, 12" hose and cap adapter to check 3/4" deep filler necks, 1/4" Spacer Washer for testing 1" deep filler necks, plus 3 Radiator Adapters (#7090, #7091 and #7092).



CTA7045

Radiator Cap Pliers

- For quick and safe removal of all standard radiator caps

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COOLING SYSTEMS**Radiator Tools****Air Comb Filter and Radiator Cleaners**

The Air Comb™ Filter Cleaner will thoroughly clean air filters, condensers and radiators from the inside out. The patent pending design focuses high-pressure and high-volume output shop air at a 90° angle to access the hardest-to-reach areas. The Air Comb™ Filter Cleaner is great for tube and cylindrical type air filters as well as radiators and AC condensers.

**IPA8050****12" Air Comb Filter and Radiator Cleaner**

- 12" focused high-pressure output

**IPA8051****24" Air Comb Filter and Radiator Cleaner**

- 24" focused high-pressure output

**IPA8052****36" Air Comb® Filter and Radiator Cleaner**

- 5x the air volume

**IPA8053****48" Air Comb® Filter and Radiator Cleaner**

- 5x the air volume

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**LIS22990****4 Piece Low Profile Jiffy-tite® Disconnect Set**

- Low profile design quickly and easily disengages the line from Jiffy-tite® quick-connect fittings without removal of the clip
- The teeth of the tool fit perfectly into tight tolerance of Jiffy-tite® connectors and when rotated allow the line to be pulled without damage to the connector or retaining clip so they can be reused
- Includes four sizes: 3/8", 1/2", 5/8"-30% and 5/8"-39%. All sizes are available individually

**CTA1076****Volvo Heater Blower Motor Removal and Install Tool**

- Removes and Installs the climate control blower motor
- Services Volvo: S60L (2007-2016), S80 (2007-2016), S80L (2008-2016), V60 (2008-2016), V60 Cross Country (2008-2016), V70 (2008-2016), XC60 (2008-2016), XC70 (2008-2016), S60 (2011-2016)
- Land-Rover: LR2, Range Rover Evoque
- High Quality
- Satisfaction ensured

THEXTON**THX473****Radiator Petcock Socket**

- Molded plastic
- 1/4" drive
- Fits narrow wing plastic drain fittings

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**PBT71510****OE Toyota and Lexus Cooling System Pressure Test Kit**

- Kit contains adapters to attach pressure pump to cooling system on all Toyota passenger and light commercial vehicles
- Kit contains adaptors to test pressure caps on all Toyota passenger and light commercial vehicles

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COOLING SYSTEMS

Radiator Tools



PBT71515

OE VW and Audi Cooling System Pressure Test Kit

- Kit contains adaptors to attach pressure pump to cooling system on all VW & Audi passenger vehicles
- Kit contains adaptors to test pressure caps on all VW & Audi passenger vehicles

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



PBT71520

OE Ford Cooling System tester Kit

- Kit contains adaptors to attach pressure pump to cooling system on all Ford passenger and light commercial vehicles.
- Kit contains adaptors to test pressure caps on all Ford passenger and light commercial vehicles

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Ignition Tools



HIC765-2WA

Coil On Plug Quick Probe II

- New variable sensitivity for expanded vehicle coverage
- Enhanced accuracy on late model coils with improved RF shielding
- Bright LED strobe indicates sufficient kV and green LED indicates arc duration
- This tool allows the technician to confirm COP coil circuit operation. 7" long probe

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



KDT104

Distributor Clamp Wrench 1/2" and 9/16"

- Double-ended wrench for moving around obstructions
- Fits 1/2" and 9/16" lock nuts
- Use an adapter to join wrenches or attach the wrench to a 3/8" ratchet or extension

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

THX404

Adjustable Ignition Spark Tester

- Tests for no-start conditions and for spark strength
- Adjustable gap allows for spark gap requirements from 0 to 40,000 volts
- Gauge background makes spark easy to see for accurate measurement
- Includes safety shield
- Works on ignition systems from high energy electronic automotive systems to small engines by simulating the spark plug under compression load

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THEXTON



ELECTRICAL SERVICE**Top Dead Center****IPA7880****Standard TDC Indicator**

- The Standard TDC Indicator enables a technician to accurately set a piston to top dead center (TDC)
- Remove spark plug, screw in the gauge and rotate the engine observing the radial marks on the sliding shaft and note the top piston stroke

DO NOT use on an engine that has an acute spark plug angle relative to the flat top of the piston, or you may bend the TDC shaft. Best used on HEMI type engines.

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Spark Plug Tools**CTA1061****Spark Plug Socket with Swivel - 14mm x 12 Pt**

- 14mm thin-wall 12-point socket
- Features a swivel square-drive to access spark plugs
- Applications include: BMW N54, N55, N63, Benz E90 plus some Minis and Infinitis
- Rubber insert holds plug
- 3/8" square drive

**CTA4329****16mm Spark Plug Socket****12 Pt. with Swivel**

- 16mm / 5/8" Spark plug socket with retaining spring and pivot joint
- Designed for Mercedes-Benz M112, M113, M137, M155, M166, M168, M169, M245, M271, M272, M273, M275, M902, M906 & BMW X6 applications.
- Also used for BMW C1, Kawasaki, Yamaha, Honda, Suzuki & Ducati Motorcycle applications
- Used with a 3/8" square drive

**CTA7654****Spark Plug Socket 14mm with Long Extensions**

- Swivel design required for access to recessed spark plugs on certain applications
- 14mm x 12 point double hex sock
- 15-20° max swivel range
- OAL: 8.7" (22cm) • 3/8" square drive

**CTA7656****Spark Plug Socket 16mm with Long Extensions**

- Swivel design required for access to recessed spark plugs on certain applications
- 16mm x 12 point double hex sock
- 15-20° max swivel range
- OAL: 8.7" (22cm) • 3/8" square drive

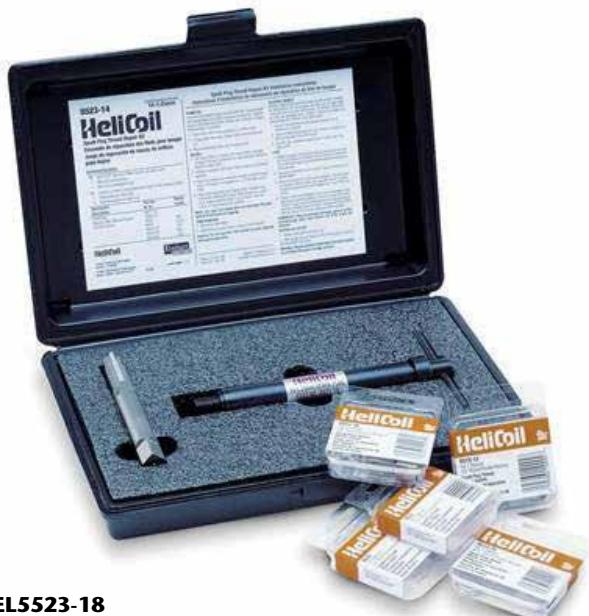
CTA1420**Block-Head Bolt Repair Kit -****11.5mm x 1.5**

- Fixes Head Bolt threads specifically designed for Honda, Toyota and Other Imports
- Longer thread inserts for maximum thread engagement
- Includes 1pc. HSS drill bit
- 1pc. STI tap
- 5pc. 1.5D solid inserts

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ELECTRICAL SERVICE**Spark Plug Tools****LIS65600****Broken Plug Remover for Ford 5.4L**

- Removes broken spark plugs from 2004 and newer Ford Triton 3 Valve engines.
- Set includes a unique porcelain pusher tool.
- Uses a tapered left-hand thread remover to pull the broken spark plug from the head.
- Porcelain pusher presses the porcelain into the tip of the broken plug without breaking the porcelain.
- Housed in a handy blow molded case.

**HEL5523-18****18-1.5mm Spark Plug Hole Kit**

- Thread Repair Kit, for Spark Plugs, 18mm x 1.50, with Tap, Installation Tool and 24 Inserts

HEL5523-14**14-1.25mm Spark Plug Hole Kit**

- 14mm x 1.25 with Tap, Installation Tool and 30 Inserts

**6 Point Spark Plug Sockets**

- Features protective rubber insert and hex top for use in tight areas
- Manufactured with heat treated chrome vanadium steel



Part #	Description
KTI22221	3/8" Drive 6 Point Spark Plug Socket, 5/8"
KTI22227	3/8" Drive 6 Point Spark Plug Socket, 13/16"

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3/8" Drive 6 Point Flex Spark Plug Socket

- Features protective rubber insert and heat-treated chrome vanadium steel
- Flex joint enables tool to reach tight and confined areas



Part #	Description
KTI22521	3/8" Dr 6 Point Flex Spark Plug Socket, 5/8"
KTI22527	3/8" Dr 6 Point Flex Spark Plug Socket, 13/16"

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**KTI75201****Ford Triton Spark Plug Extractor**

- Extract frozen and broken off spark plug sleeves
- For use on Ford Triton engines model year 2004 and later
- Specially machined guide works with extra-long tap and extractor
- Avoid potential engine damage
- Saves time by doing the job right the first time!

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ELECTRICAL SERVICE**Spark Plug Tools****GW GEARWRENCH®****KDT80601****5 Piece Magnetic Spark Plug Socket Set**

- Magnetic Insert Holds Plug for Removal and Installation
- Set contains (1) 5/8" Swivel Spark Plug Socket - Magnetic 4" Length, (1) 5/8" Swivel Spark Socket - Magnetic 6" Length, (1) 5/8" Swivel Spark Plug Socket - Magnetic 11" Length, (1) 9/16" Spark Plug Socket - Magnetic 2.5" Length and (1) 9/16" Swivel Spark Plug Socket - Magnetic 6" Length.

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**KDT41740****3 Piece 5/8" Magnetic Universal Spark Plug Service Kit**

- Long reach magnetic swivel spark plug set in 4", 6", and 11" lengths
- Features magnetic core on each size
- Blow mold case
- Lifetime warranty

**KDT135****Spark Plug Terminal Plier**

- Safely removes spark plug cables and prevent cable damage
- Pliers' handles and jaws are coated with a heavy-duty plastic for a sure grip

The Marson logo, featuring the word "marson" in a blue sans-serif font with a stylized "M" graphic to the left.

**MAR98140T****Ford Triton Spark Plug Saver Kit**

- Repairs worn, damaged, or striped threads
- Can be used with any alloy or cast iron head
- Kits to fit M14-1.25 spark plug port threads, gasketed or tapered
- Designed for use with almost any engine
- No drilling required

The Lisle logo, featuring the word "Lisle" in a red, stylized, cursive script font with a registered trademark symbol.

**LIS26900****Spark Plug Wire Tester**

- Quickly locate faulty plug wires
- No shock hazard
- Check spark plug wires without piercing the wires
- Light flashes indicating sound wire
- Skin-packed; Shipping wt. 3 oz.

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**LIS51410****Offset Spark Plug Boot Removal Pliers**

- Used to remove stubborn spark plug wires on GM 3.1L, 3.4L, 3.8L and Other Engines
- The 5/8" opening of the pliers properly fits spark plug wire boots to prevent damage to spark plug wires

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ELECTRICAL SYSTEM

Spark Plug Tools



LIS65700

Broken Plug Remover Kit Ford 3V

- Includes a unique Porcelain Puller Tool that snaps onto the terminal of a broken spark plug to pull the porcelain out
- Also includes a Porcelain Pusher for when the porcelain breaks off in the spark plug tip and a Self-Tapping Puller to remove the seized metal tip
- Comes in a blow molded plastic case for storage

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LIS65600

Broken Spark Plug Remover for Ford Triton 3 Valve Engines

- Removes broken spark plugs from 2004 and newer Ford Triton 3 Valve engines
- Set includes a unique porcelain pusher tool
- Uses a tapered left-hand thread remover to pull the broken spark plug from the head
- Porcelain pusher presses the porcelain into the tip of the broken plug without breaking the porcelain
- Housed in a handy blow molded case

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



OTC6900

Specialty Spark Plug Socket for Ford F-150 Triton Engine

- Soft rubber boot to safely grip the spark plug during removal and installation
- 3/8" Drive and 9/16" size
- One piece design prevents damage due to wobble
- Knurled handle prevents slipping from hand
- 3/8" drive for use with ratchet and breaker bars



KTI70750

Spark Plug Boot Pliers

- Removes hard to reach spark plug boots
- Insulated grips provide comfort and protection
- Cushioned and insulated jaws grip the boot tightly from the side or straight on

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KTI22219

3/8" Drive Extra Deep Spark Plug Socket, 5/8"

- Extra deep (4-1/2") spark plug socket eases the placement or removal of plugs in deep recesses
- Heavy duty rubber insert grips plug without damaging insulation
- Knurled barrel for non-slip grip
- Features 3/4" external hex and black oxide finish

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KTI70707

Ford Broken Spark Plug Remover with Tap

- Spark Plug Rethreading Kit Ford 4.6, 5.4, V10 2 Valve Engines
- Applicable: Ford 2004 and newer Triton 3 valve cylinder engines
- Spark Plus Sizes: 14mm and 16mm
- Manufactured by K-Tool International
- Broken Spark Plug Remover with Tap

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ELECTRICAL SERVICE**Spark Plug Tools****OTC6918****Ford Spark Plug Remover Kit, Triton 3V**

- Unique design helps prevent breakage by locking the plug porcelain core to the plug hex allowing it to turn as one complete unit
- Will also pull plug porcelain core if plug hex only is removed

Works on;

Ford 4.6L 3V V8 engines used in 05-08 Mustang, 06-08 Explorer.

Ford 5.4L 3V V8 engines used in 04-08 F-Series, 05-08

Expedition, 05-08 Lincoln Navigator.

Ford 6.8L 3V V10 engines used in 05-08 F-Series 250-350-450.

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SUNEX[®] TOOLS

**SUN8844****4 Piece 3/8" Drive Universal
Spark Plug Socket Set**

- Fully polished chrome vanadium alloy steel for durability
- Universal joint design for easy access in confined areas
- Rubber inserts hold spark plug securely during installation and removal
- Fully guaranteed
- Includes 9/16" size

SUN8845**7 Piece 3/8" Drive Spark Plug Socket Set**

- Contains socket sizes that easily remove and install the spark plug sizes common to most vehicles

MUELLER KUEPS

German Automotive Tool Innovator

MLK651001**Spark and Glow Plug Starter**

- Useful tool to install the first pitch on common rail glow plugs
- Fits spark plugs as well
- Special anti-slip textured surface for ultimate grip
- Neon Green



ASSENMACHER[®] SPECIALTY TOOLS

ASTTOOL.COM

**ASSSP1412****12 Point Thin Walled 14mm Spark Plug Socket**

- Very slender in design to fit application
- 14mm, 12 pt spark plug socket
- 3/8" Drive
- Comparable to BMW # 121 220

TOOL AID[®] TOOLS FOR THE PROFESSIONAL

**SGT18500****Air Operated Spark Plug Cleaning Tool**

- Cleans any size spark plug quickly and effortlessly with internally controlled abrasive blasting
- Uses ordinary air line pressure
- Compressed air flows through special venturi mixing with abrasives to thoroughly clean spark plugs like new
- Lever valve on outside of unit allows for blasting with abrasive/air mix or pure air only

Recommended air line pressure is 70-80 PSI, maximum 90 PSI. Abrasive material is included and is silica free. The instructions are provided.

ELECTRICAL SERVICE**Alternator Tools****KDT2897****Alternator Pulley Puller and Installer Set**

- Remove pressed-on alternator and power steering pulleys on late-model GM, Ford and Chrysler engines
- The threaded end installs late-model GM alternator and power steering pulleys, including Quad 4
- Reverse the jaws to pull the alternator internal bearing
- The puller fits some AMCs

Remove pressed-on alternator and power steering pulleys on late-model GM, Ford and Chrysler engines. The threaded end installs late-model GM alternator and power steering pulleys, including Quad 4. Reverse the jaws to pull the alternator internal bearing. The puller fits some AMCs. Will not work on 3.3L and 3.5L Chrysler engines. Includes: Puller Body, Jaw and Sleeve Assembly, Jackscrew, Button, Bearing and Washer, Puller Pin for Quad 4, Screw Installer for Quad 4, Puller Pin for GM 3.1, Screw Installer for Ford 4.6 and Screw Installer for All Others.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**AST7874****Pulley Puller and Installer Kit**

- Removes pressed on alternator and power steering pulleys on late model GM, Ford and Chrysler engines
- Installs late model GM alternator and power steering pulleys including Quad 4
- Included in a blow molded case for easy storage and transport

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



MITMVA5605
Ford Glow Plug Adapter
• Navistar 7.3L power stroke



MITMVA5613
Diesel Glow Plug Adapter
• BMW 2.4L
• Deutz Most models
• GM W4, W7, W7HV (GMC Trucks)
• Lincoln 2.4L Mark VII, Continental (1984-85)
• Mercedes 250, 300, 300 Turbo, 350 Turbo
• Peugeot 2.3L and 2.5L (1978-86)
• Volkswagen 1.9L TDI

ELECTRICAL SERVICE**Alternator Tools****KAS5238****Master Power Steering Pump/Alternator Pulley Remover Installer Kit**

- Designed to remove and install press-on-type belt driven accessory pulleys found on most vehicles
- Kit includes components necessary to remove and install pulleys on pumps with the common 3/8-16 threaded shaft
- Unique interchangeable component removes and installs pulleys on GM Quad 4, GM 3.1 L, and Ford 4.6L engines
- Designed to be used with either hand tools or an impact gun

**OTC7185****Alternator/Power Steering Pulley Puller**

- Works on pulleys with hub diameters of 1-1/8", 1-1/4", 1-5/16", and 1-3/8"
- With split collet design, the jaws grip the pulley flange for damage-free removal
- Mechanical screw power

The 7185 tool removes pulleys on most Chrysler, Ford, GM, and VW vehicles, including Saginaw, Thompson, and the Ford C2 power steering pumps; GM belt-driven vacuum pumps on both gas and diesel cars; and press-on water pump pulleys on GM 4-cylinder and V-6 engines.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**OTC4681****Power Steering Pump/Alternator Remover/Installer Tool**

- Reversible 2-in-1 tool removes and installs press-fit alternator and power steering pump pulleys
- Also removes and installs other press-fit pulleys with a hub diameter of 1-1/8" (28mm), 1-1/4" (32mm), 1-5/16" (34mm), or 1-3/8" (35mm)

**OTC6005A****Diesel Glow Plug Removal Tool**

- Services diesels in popular 3/4 and 1/2 ton pickups
- Comes in plastic storage case

Tool includes 10 mm and 12 mm split nuts that provide added threads for pulling. One of three furnished spacers is installed under split nut to give a solid base for extraction without breaking glow plug off. Split nut is held with a wrench as the glow plug is unscrewed from the head.

**OTC4800****Clutch Hub and Alternator Puller**

- Removes clutch on Big Twins with 3, 5, and 10 fingers
- Also works on Sportster transmission sprocket and clutch
- Pulls Motor Sprockets
- Pulls Alternator Covers

ELECTRICAL SERVICE

Glow Plug Tools



CTA7802

Glow Plug Tip Puller Kit

- Removes broken glow plug tips stuck in the cylinder head. The tap, drill bit and extractor holders are fitted to the body of the original plug and slide in for perfect centering
- Self-centering industrial taps with "stop-block" reduce the risk of damage to the cylinder head
- Size of drill bits and the shoulder of their holder prevents risk of drilling or tapping too far into the cylinder head without prior measurement, saving time and reducing damage
- Kit services limited clearances, enabling its use for firewall sided glow plugs
- Includes (4) easily identifiable guides & punch for flared tips, (1) punch, (1) foam grip slide hammer, (2) drill supports, (2) tap supports, (2) puller supports & (1) magnetic flex puller



CTA7804

Glow Plug Puller Kit

- Removes glow plugs, even when compartment is not easily accessible
- Including narrow engine bays and engines with glow plugs on the firewall side
- Enables removal of broken glow plugs in the top of the cylinder head without damage
- Includes (1) electrode puller, (1) electrode reinforced drill with (2) guides, (2) specially centered mills with one mill support preventing damage to the head
- (1) tap and (1) slide hammer extractor to pull out broken glow plugs, (3) refreshing taps sizes: M8, M10x100 & M10x125 with hex drive



MLK600248

Glow Plug Drill Kit - M10x1

- Safely and effectively removes broken glow plugs in 5 easy steps
- Step #1: Break the electrode by turning counter clockwise with socket
- Step #2: Drill pitch away with special 3 fluted step drill
- Step #3: Tap the left thread inside the remaining glowplug piece
- Step #4: Extract the last pitches with thread tap and clean up the hole
- Step #5: Remove remaining portion of glow plug with extractor and slide hammer
- Set comes in a metal box with a straightforward picture manual

MLK600248

Glow Plug Drill Kit M8 x 1



MLK600300

Glow Plug Electrode Extraction Kit

- Set of tools for the extraction of the glow plug tip
- Includes M10x1, M10x1.25, M9x1, M8x1
- Saves considerable amount of time versus disassembly of head

ELECTRICAL SERVICE**Gap & Feeler Gauges****GW GEARWRENCH®**

Made in U.S.A.

**KDT2223
Non Magnetic Spark Plug
Gauge .006-.016"**

- 6-blade gauge measures clearance in electronic ignition systems where non-magnetic blades are required
- Does not magnetize hard brass
- Blade length: 3-5/16"



Made in U.S.A.

**KDT2062
Mini Spark Plug Gauge
.010 to .035".**

- Miniature 16-blade feeler gauge is only 1/4" wide x 1-3/4" long
- It measures clearances from 0.010 to 0.035" (0.254 to 0.889mm)



Made in U.S.A.

**KDT2274
Metric Spark Plug Gauge
.04 to 1.00mm**

- 25-blade gauge measures clearances from 0.04 to 1 mm
- Blade length: 3"

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov**KDT164
Spark Plug Gap
and Feeler Gauge Blade Type
.010 in. to .045 in.**

- 25-blade gauge measures clearances from 0.04 to 1mm
- Blade length: 3"



Made in U.S.A.

GW GEARWRENCH®

Made in U.S.A.

**KDT2424
Spark Plug Gauge
0.004" to 0.027"**

- 22 etched blades cover the complete range of sizes from 0.004" to 0.027" (0.10 to 0.69mm)
- Blade length: 3-6/16"

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov**KDT162
Spark Plug Gauge Blade
Type .002" to .025"**

- Gauge measures clearances 0.002 to 0.025" (0.051 to 0.635mm)
- It includes a 2-1/2" rule and 15 blades
- Blade length: 3-5/16"



Made in U.S.A.

**KDT161
Spark Plug Gauge Blade
Type .0015" to .035"**

- Gauge measures clearances from 0.0015 to 0.035" (0.038 to 0.889mm)
- It also includes one 0.010" brass blade to use with electronic ignitions
- Blade length: 3-5/16"



Made in U.S.A.

**K TOOL®
INTERNATIONAL****KTI73701
Spark Plug Gap Gauge Tool**

- Measure in increments of one thousandth from .020 through .100

**KTI73701-50
Spark Plug Gap Gauge Tool 50 Pack**

- Package of 50

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov**LANG
TOOLS**
Professional Tools For **4 Generations****KAS3074
Feeler Gauge Set for General
Heavy Duty Truck Valve Adjustment**

- Loose set of feeler gauge blades have a range of .008" to .030" to cover heavy-duty truck engine applications
- 3"" blade, with 5/8"" long 45° offset
- Used in the Feeler Gauge Set for Heavy-Duty Truck Valve Lash Adjustment (part no. 3079)

ELECTRICAL SERVICE

Gap & Feeler Gauges

**LIS68150****Blade Type .004" to .027"**
Feeler Gauge

- The blades are approximately 1/2" wide by 3 1/4" long
- Includes 22 steel blades
- .002" precision step for accurate settings

**LIS67950****Blade Type .002 to .025"**
Feeler Gauge

- 15 steel blades; (1) 2" steel rule
- Precision blades ensure accurate measurements
- Blades are approximately 1/2" wide by 3-1/2" long

**LIS68100****Blade Type .0015 to .035 Deluxe Feeler Gauge**

- 31 blades. (1) brass blade .010"
- Precision blades ensure accurate measurements
- Blades are approximately 1/2" wide by 3-1/2" long

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov**⚠ WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov**LIS60660****Deluxe Relay Test Kit**

- Includes 8 jumpers to fit most popular relays; also includes test lead kit and relay puller pliers
- Jumpers have tabs for clamping and flat pads to place test leads on; no need to pierce wires or connect multiple jumper wires
- Also includes test lead kit for easily and securely connecting relay test jumpers to a multimeter
- Jumper wire may be used between common and open to close the relay circuit for testing and has a test port to easily check voltage; also provides access for a clamp-on amp meter
- Relay Puller Pliers easily remove electrical relays without damage to the relay or electrical box

**LIS67870****Standard/High Energy**
Spark Plug Gauge and Gapper

- Gauges and gaps all types of spark plugs from .020" to .100" (.50mm to 2.53mm)
- Tapered edge for gauging spark plugs
- Specially designed hole with flange adjusts side wire of plug without pressuring center electrode

**⚠ WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov**LIS67800****Spark Plug Gapper**

- For standard ignitions

**LIS67900****Wire Type .035 to .080"****Spark Plug Gapper**

- For electric engines

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Relay Tools

**⚠ WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov**LIS60610****Relay Test Jumper Kit II**

- No need to pierce wires or connect multiple jumper wires
- Simply remove relay to be tested, insert correct jumper and insert relay into jumper
- Jumpers have tabs for clamping and flat pads to place test leads on

Set includes four jumpers to fit many popular relays on Honda, Nissan, Toyota, newer Ford and GM mini micro relays as well as International trucks.

ELECTRICAL SERVICE**Relay Tools**
SCH98110
Adjustable Relay And Fusible Link Slip Joint Pliers

- This unique tool has been developed for removal and installation of relay and fusible links on many later model automobiles
- This tool has been engineered to reach into the confined area around the corners of the relay or fusible link with special coated tips for a solid grip needed in removing and installing them
- These pliers come with soft grip handles and have been designed with a slip joint feature allowing multiple size usage

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Bore Brushes
IPA008081
Brass Twisted Wire Bore Brush Set

- Durable and abrasive bore brushes
- 6-piece set (8, 10, 12, 15, 17 and 19mm sizes)
- 1/4" hex shank
- Do Not Exceed 600 RMP
- These brushes are meant for push, pull and clockwise use only
- Never Turn Counterclockwise

Includes sizes: 8mm, 10mm, 12mm, 15mm, 17mm and 19mm. This set features the most common sizes for cleaning tubes, ports, bearings and other general wire brush applications. Twisted wire gives it extra strength to increase cleaning action. Each brush is fitted with a 1/4" hex shaft for use with a standard 1/4" driver.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov


IPA8080
Steel Twisted Wire Bore Brush Set

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Hybrid Tools
EZRH240
5 Piece Hybrid Insulated Tool Set

- All the tools are EVA approved and 1,000 volt tested. Cat 3
- The only insulated tools you need for Hybrid vehicle work
- Comes in a pouch • Lifetime warranty

Tools include: 3/8" Drive Insulated Ratchet; 3/8" Drive x 6" Extension; 3/16" Slotted Insulated Screwdriver, 4" Blade; PH1 Phillips Insulated Screwdriver, 4" Blade; PH2 Phillips Insulated Screwdriver, 4" Blade.

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LIS46950
Relay Puller Pliers

- Pliers for removing electrical relays on most domestic and import vehicles
- Offset handle and thin tips allow access to relays in confined areas
- Specially designed tips are angled to fit slots or edge of relay cover
- This allows relay to pop free from socket with less chance of damaging the relay
- Also works on many heavy-duty and industrial applications

ELECTRICAL SERVICE

Fuse Tools



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ESI193

Diagnostic Relay Buddy 12/24 Pro Test Kit

- Tests both 12 and 24 Volt relays - 4 and 5 pin
- Diagnostic trouble codes indicate the cause of failure - 3 different codes
- Pro test kit includes 5 new test adapters for shielded and new relay types
- Cycles relay 10 times: Green Light if relay is good, red light if relay is bad plus one of 3 diagnostic codes
- Tester uses 12V or 24V power from the vehicle battery

Relay Buddy 12/24 is a quick go/no-go tester for the most common automotive relays. In kit form, #193 Relay Buddy 12/24 tests 5 different relay types. Relay Buddy 12/24 provides you with an indication of the general health and functioning of the relay switch contacts and coil. It will check the control side of the relay by applying a signal to the relay coil while it checks for proper functioning of the relay contacts. Relay Buddy operates the relay several times during each test session as it watches for consistency in every cycle.

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ESI304B

Fuse Buddy Tester - ATC Blade

- Clear display screen
- Has a .01 Amp resolution
- Its designed specifically for circuit testing
- Measures from 0 to 20 Amps

This tester connects directly into the fuse socket, measuring from 0 to 20 Amps. The removed fuse is plugged into the tester, maintaining circuit protection. Its designed specifically for circuit testing, plugs right into fuse socket.

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ESI306B

30 Amp Fuse

Buddy Tester - ATC Blade

- Great for motor blowers
- Original fuse is replaced in-line during testing, thereby maintaining circuit protection
- Great tool for electrical troubleshooting at the fuse box
- Can be used on all circuits up to 30 Amps
- Test range: 0 – 30 Amps ~ 48V DC ~ .1A resolution
- One year warranty



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ESI303B

Fuse Buddy DMM Adapter - ATC Blade

- The ends are molded into the shape of the fuse itself
- Uses existing fuse to maintain overload protection
- Convenient way to connect your DMM or hand held scope
- Connects DMM or Hand Held Scope directly into circuit - time saving product - fits snug into fuse socket for more accurate measurements

This unit adapts any DMM to plug into fuse socket for measuring circuit amperage draw. In addition, the circuit remains protected by the existing fuse - no danger of overloading. It's a convenient way to connect your DMM or hand held scope directly into the circuit - time saving product - fits snug into fuse socket for more accurate measurements.

ESI302M

Fuse Buddy Tester - Mini Fuse

- Designed specifically for circuit testing, Fuse Buddy plugs right into fuse socket - easy connection for circuit current testing
- Fuse Buddy will measure circuit amperage from 0 to 20 Amps - time saving design
- Unique design incorporates removed fuse to maintain circuit protection
- Test range 0 to 20 Amps • .01 Amp resolution



The Fuse Buddy Tester connects directly into the fuse socket, measuring from 0 to 20 Amps. Removed fuse is plugged into the Fuse Buddy maintaining circuit protection.

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ESI301M

Fuse Socket Digital Multi Meter Adapter for Mini Fuse

- Connects digital multimeter or hand held scope directly into circuit - time saving product
- Great way to measure current at fuse box - with fuse buddy there is no need to push test probes into fuse socket
- Uses existing fuse to maintain overload protection
- Fits snug into fuse socket for more accurate current measurements
- Can test circuit up to 10 amps

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ELECTRICAL SERVICE**Fuse Tools****ESI305M****30 Amp Fuse Buddy Mini Tester**

- Great for motor blowers
- Original fuse is replaced in-line during testing, thereby maintaining circuit protection
- Great tool for electrical troubleshooting at the fuse box
- Can be used on all circuits up to 30 Amps
- Test range: 0 – 30 Amps - 48V DC - .1A resolution
- One year warranty

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ESI308B
ATC Fuse Buddy Current Loop


- Easy testing access, plugs right into fuse socket, no more hand made adapters
- Clamp your current probe over the loop to access the amperage draw through a fused circuit
- Testing range 0-30 Amps - Do not exceed 30 Amps
- Diagnose a variety of amperage draw problems including: Fuel Pumps, Battery Drains, Blower Motors, Shorts
- Also handy for installers needing to monitor circuit amperage limits

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ESI307M
Mini Fuse Buddy Current Loop


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Made in U.S.A.

KTI01671
Fuse Puller

- Pull auto, glass and mini fuses

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KTI01661
30 Amp Fuse Holder for AGC Fuse


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**IPA8005****Fuse Saver® Standard Kit**

- Dual-type fuse box connector with 10' cord eases the installation of radios, CD players, radar detectors and other accessory equipment
- Allows a technician to move around a vehicle shake testing wires while looking for the short
- Includes 3 resetting, color-matching breaker handles: 10, 15 & 20 amps



Made in U.S.A.

It allows you to move about the vehicle while checking for shorts in the electrical system. You can also disconnect and reconnect power to any circuit while work is being completed in that circuit without leaving the work area. Have you ever had a blown fuse and wished you had 30 new fuses so you could keep replacing the blown fuse until you found the short? Now the Fuse Saver is here. Just plug in the Fuse Saver's fuse box adapter into the blown fuse socket and troubleshoot the short. If the circuit overloads, just depress the breaker button on the top of the handle and you can continue working until you find the problem.

**LIS69300****Master Relay and Fused Circuit Test Kit**

- Makes testing relays or live circuits quick and easy from the relay or fuse box
- Use fixed relay test jumpers or create your own configuration
- Allows testing of relay configurations like VW, BMW and other European vehicles
- Includes a switch with stacking banana plugs, external power lead, extension wires, fused line for protection and terminal leads with spades
- Extend the capability of your digital multimeter

Includes eight jumpers to fit most popular relays. The jumpers have tabs for clamping and flat pads to place test leads on. Includes Test Lead Kit for easily and securely connecting Relay Test Jumpers to a multimeter. Terminal Leads with switch, fuse and power options provide easy access to check current or voltage on many fuses and relays used on vehicles today. Relay Puller Pliers easily remove electrical relays without damage to the relay or electrical box. Works without piercing wires.

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ELECTRICAL SERVICE

Fuse Assortments



Made in U.S.A.

**ATO Fuses/ATO Glo Fuses**

ATO fuses are color coded for amperage, have a recognizable body design, and standard footprint. ATO fuses snap into place without the need for special tools.

Part Number	Description	Qty
KTI04210	5 Amp Fuses	5
KTI04212	10 Amp Fuses	5
KTI04213	15 Amp Fuses	5
KTI04214	20 Amp Fuses	5
KTI04215	25 Amp Fuses	5
KTI04216	30 Amp Fuses	5

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**Glass Fuses**

Although still used in older-model cars, glass fuses are found primarily in automotive accessory applications today. Glass fuses are widely used in electronic and electrical applications where proper fuse selection is critical to performance. Sold as a package of 5.

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Made in U.S.A.

Part Number	Description	Qty
KTI00821	Fuses Glass 15 Amp	5
KTI00841	Fuses Glass 25 Amp	5
KTI00861	Fuses Glass 5 Amp	5



Made in U.S.A.

**Mini Fuses / Low Profile Mini Fuses / Glo Mini Fuses**

The mini fuse style blade fuse is quickly becoming a new standard in the automotive industry. The mini fuse allows for more circuits to be fused in the same space as either an ATO or ATC style fuse. Mini fuses are offered in 2 to 30 amp current ratings.

Part Number	Description	Qty
KTI04199	Fuses Mini 2 Amp	5
KTI04200	Fuses Mini 3 Amp	5
KTI04201	Fuses Mini 4 Amp	5
KTI04202	Fuses Mini 5 Amp	5
KTI04203	Fuses Mini 7.5 Amp	5
KTI04204	Fuses Mini 10 Amp	5
KTI04205	Fuses Mini 15 Amp	5
KTI04206	Fuses Mini 20 Amp	5
KTI04207	Fuses Mini 25 Amp	5
KTI04208	Fuses Mini 30 Amp	5
KTI04270	Low Profile Mini Fuse - 5 Amp	10
KTI04271	Low Profile Mini Fuse - 7.5 Amp	10

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Made in U.S.A.

Maxi Fuses		
Part Number	Description	Qty
KTI04234	Fuses Maxi 20 Amp	3
KTI04235	Fuses Maxi 30 Amp	3
KTI04236	Fuses Maxi 40 Amp	3
KTI04237	Fuses Maxi 50 Amp	3
KTI04238	Fuses Maxi 60 Amp	3

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ELECTRICAL SERVICE**Fuse Assortments**

Jcase Fuses		
Part Number	Description	Qty
KTI04220	Jcase Fuse - 20 Amp	5
KTI04221	Jcase Fuse - 30 Amp	5
KTI04222	Jcase Fuse - 40 Amp	5
KTI04224	Jcase Fuse - 60 Amp	5

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KTI00080
120-piece Auto Fuse Assortment
(color-coded fuses)

120-piece assortment kit includes auto fuses sized from 5A to 30A.

Description	Qty:	Description	Qty:
5A Auto Fuses.....	20	20A Auto Fuses	20
10A Auto Fuses.....	20	25A Auto Fuses	20
15A Auto Fuses.....	20	30A Auto Fuses	20



KTI00081
120-piece Mini Auto
Fuse Assortment
(color-coded fuses)

120-piece assortment kit includes mini fuses sized from 2A to 30A.

Description	Qty:	Description	Qty:
5A Auto Fuses.....	20	20A Auto Fuses	20
10A Auto Fuses.....	20	25A Auto Fuses	20
15A Auto Fuses.....	20	30A Auto Fuses	20

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Low Profile Jcase Fuses		
Part Number	Description	Qty
KTI04226	Low Profile Jcase Fuse - 20 Amp	5
KTI04227	Low Profile Jcase Fuse - 25 Amp	5
KTI04228	Low Profile Jcase Fuse - 30 Amp	5
KTI04229	Low Profile Jcase Fuse - 40 Amp	5

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KTI00045

12 Piece Low Profile Jcase Fuse Assortment with 6 Different Amp Sizes

- Low profile assortment of fuses
- 6 different amp sizes ranging from 20-60
- Color coded for convenience
- Two each of six popular sizes
- Contains product assortment map for easy identification of components



KTI00082

56-piece Maxi Auto Fuse Assortment (color-coded fuses)

56-piece assortment kit includes maxi fuses sized from 20A to 100A.

Description	Qty:	Description	Qty:
20A Auto Fuses	7	60A Auto Fuses	7
30A Auto Fuses	7	70A Auto Fuses	7
40A Auto Fuses	7	80A Auto Fuses	7
50A Auto Fuses	7	100A Auto Fuses	7

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ELECTRICAL SERVICE

Fuse Assortments

**KTI00070****25-piece ATO Glo-Fuse Assortment**

Finding open fuses is easy with these fuses that use LED technology to show that a fuse has opened - making them easy to spot in fuse panels tucked up under dark dashboards. Same color coding and amp ratings as the ATO fuses. Includes 25 pieces of the top 5 sizes including 10A, 15A, 20A, 25A and 30A.

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Part Number	Description	Qty
KTI04282	ATO Glo-Fuse 10 Amp	5
KTI04283	ATO Glo-Fuse 15 Amp	5
KTI04284	ATO Glo-Fuse 20 Amp	5
KTI04285	ATO Glo-Fuse 25 Amp	5
KTI04286	ATO Glo-Fuse 30 Amp	5

**KTI00068****30-piece Low Profile Mini Fuse Assortment**

This is a low profile version of the ATM mini fuses. Same color code and amp ratings. Includes 30 pieces of the top 6 sizes - 7.5A, 10A, 15A, 20A, 25A and 30A.

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Part Number	Description	Qty
KTI04270	Low Profile Mini Fuse - 5 Amp	NA
KTI04271	Low Profile Mini Fuse - 7.5 Amp	5
KTI04272	Low Profile Mini Fuse - 10 Amp	5
KTI04273	Low Profile Mini Fuse - 15 Amp	5
KTI04274	Low Profile Mini Fuse - 20 Amp	5
KTI04275	Low Profile Mini Fuse - 25 Amp	5
KTI04276	Low Profile Mini Fuse - 30 Amp	5

**KTI00026****10 Piece High Amp J-Case Fuse Kit by KTI**

- These high amp fuses are currently on many new domestic and Japanese model vehicles
- Same color code and amp ratings
- Includes 10 pieces total of the most popular 5 sizes
- Contains product assortment map for easy identification of components
- Packaged in a multi compartment, refillable plastic case

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**KTI00069****25-piece ATM Glo-Fuse Assortment**

Finding open fuses is easy with these fuses that use LED technology to show that a fuse has opened - making them easy to spot in fuse panels tucked up under dark dashboards. Same color coding and amp ratings as the ATM mini blade fuses. Includes 25 pieces of the top 5 sizes including 10A, 15A, 20A, 25A and 30A.

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Part Number	Description	Qty
KTI04277	ATM Glo-Fuse 10 Amp	5
KTI04278	ATM Glo-Fuse 15 Amp	5
KTI04279	ATM Glo-Fuse 20 Amp	5
KTI04280	ATM Glo-Fuse 25 Amp	5
KTI04281	ATM Glo-Fuse 30 Amp	5

ELECTRICAL SERVICE**Terminal Tools****CTA9812****26 Piece Terminal Tool Kit**

- 26 Pc. Terminal Tool Kit contains 26 terminal release tools that assist in easily removing terminals from electrical connectors
- Using the correct terminal release tool eliminates damage to wires or terminal blocks
- The Handles are individually marked for quick reference against the application chart
- Applications: BMW, Opel, VW/Audi, Mercedes, Jaguar, Porsche, SAAB, Seat, Skoda, Ford, Renault, Citroen, Chrysler, Fiat, Ford, Honda, Mazda, Mitsubishi, and Toyota vehicles
- Packed in a Blow Mold Case

**CTA7662****Universal Line Kit**

- Comprehensive electrical & electrical testing kit for cars, trucks, tractors, ATVs, Motorcycles, boats & more
- Effortlessly analyze voltage, continuity, impedance and current
- Includes (2) 5K variable resistor potentiometers (2) alligator clips (4) acicular probes (2) LED stroboscopes (2) SRS Connectors (2) 1 to 2 connector (4) 1 to 1 extension cables and (2) probes
- Also includes (12) round male terminals w/ female banana sockets (24) flat male terminals w/ female banana sockets (24) flat female terminals w/ female banana sockets and (12) round female terminals w/ female banana sockets

**IPA8040****Diamond-Grip Terminal Cleaners**

- Pivoting handle design for added versatility
- Works for both male and female connectors on flat pin and spade style terminals
- Large, medium, and small size cleaners for the most common electrical connectors
- Highly-durable and abrasive coatings for cleaning small spade pin electrical connectors



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ELECTRICAL SERVICE

Terminal Tools



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SGT18650 6 Piece Deutsch Terminal Service Kit

- Crimping tools are steel construction with comfortable cushioned grip handles
- Inner label has application information and instructions



Kit includes: Deutsch Terminal Release Tool for 14-16 gage wire (has gold handle), Deutsch Terminal Release Tool for 16-18 gage wire (has blue handle), Deutsch Terminal Release Tool for 20-24 gage wire (has red handle), Open Barrel Crimping Tool for 14-24 gage wire, Terminal Crimper for Deutsch 14, 16 & 18 gage closed barrel terminals and Terminal Crimper for Deutsch 20 & 22 gage closed barrel terminals

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SGT18700 11 Piece Master Terminals Service Kit

- Use with Deutsch, Weather Pack, Metri Pack and Molex terminals
- Color coded aluminum handles
- Comes in a blow-molded carrying case with each tool identified in the case



Kit includes: 18551, Deutsch Terminal Release Tool for 14-16 Gage Wire, 18552, Deutsch Terminal Release Tool for 16-18 Gage Wire, 18553, Deutsch Terminal Release Tool for 20-24 Gage Wire, 18560, Terminal Release Tool for 6 Gage Wire, 18570, Deutsch Terminal Release Tool for 8 & 10 Gage Wire, 18580, Release Tool for Weather Pack Terminals, 18600, Open Barrel Crimping Tool, 18860, Terminal Crimper for Deutsch 12 Gage Closed Barrel Terminals, 18880, Terminal Crimper for Deutsch 14, 16 & 18 Gage, closed Barrel Terminals, 18890, Terminal Crimper for Deutsch 20 & 22 Gage Terminals and 18910, Terminal Crimper for Weather Pack and Metri Pack Terminals

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SGT18550 3 Piece Steel Deutsch Terminal Release Tool Kit

- Used for releasing Deutsch terminals
- Can be used on 3 wire gauges 14-16 ga, 16-18 ga, 20-24 ga
- Steel shafts with knurled anodized aluminum handles



JSP95839 23 Piece Universal Terminal Tool Kit - Euro Coverage

- An assortment of terminal release tools that cover 19 vehicle makes/models
- Easily removes terminals from electrical connectors and eliminates damage to wires and terminal blocks

Covers: BMW, Mercedes, VW, Audi, Jaguar, Porsche, Saab, Skoda, Ford, Renault, Citroen, Chrysler, Fiat, Honda, Mazda, Mitsubishi, Toyota, Opel, Seat.



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JSP95978 19 Piece Master Terminal Tool Kit

- Tools for new Volkswagen and Audi vehicles
- Tools for coolant sensors, wiring harnesses and terminal blocks on Chrysler, Hyundai, KIA, Mitsubishi and most other modern vehicles
- Helps to eliminate damage to wires or terminal blocks
- Made with machined knurled aluminum handles
- Application chart for reference included inside the storage case

Kit includes: PCM/Transmission Hardness Tool, Terminal Block Tool, Under hood Sensors Tool, Sheathing Ripper Tool, ABS ECU .55 pin Tool, ABS ECU .35 pin Tool, VW Terminal Tool, Tube, Spring Loaded, 3.3mm x 58mm Square Blade, 1.4mm x 58mm Flat Blade, 1.5mm x 58mm Flat Blade, 2.0mm x 58mm Fork Blade, 8mm x 58mm Flat Blade Screwdriver, 3/16" x 2.30" Tube, 3.3mm x 58mm Tube, 4.3mm x 58mm Tube, 3.75mm x 58mm Tube, 3.0mm x 13mm Flat Twin Blade, 3.0mm Flat Twin Blade, 1.6mm Materials: Handles: Aluminum Tube Blade: Stainless Steel Flat Blade: Carbon Steel HRC 40-46 Screwdriver Blade: Carbon Steel HRC 40-46.

ELECTRICAL SERVICE**Terminal Tools****THEXTON**

Made in U.S.A.

**THX588****3 Piece Steel Terminal Release
Tool Set in 14,16 and 20 Gauge**

- Steel Terminal Release Tools made especially for the smaller size Deutsch Connectors
- Kit contains a custom pouch and 3 tools that are sized 14,16 and 20 gauge
- Provides the technician with an alternative to the plastic tools
- Custom pouch for easy storage

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TOOL AID®
 TOOLS FOR THE PROFESSIONAL
**SGT18700****Master Terminals Service Kit**

- 11- piece electrical terminal service kit applicable to Automotive, Heavy Duty, Marine, RV, AG, Construction Equipment and Maintenance Industries
- Use with Deutsch, Weather Pack, Metri Pack and Molex Terminals
- Includes: release tools for Deutsche Closed and Open Barrel terminal. Deutsch Closed Barrel crimpers for 12, 14, 16, 18, 20 & 22. Gage wire crimper for Open Barrel terminals, crimper for Weather Pack, Metri Pack, Molex open barrel terminals and release tool for Weather Pack terminals
- Color coded aluminum handles
- Comes in a blow-molded carrying case with each tool identified in the case

Terminal Assortments**CTA9812****26 Piece Terminal Tool Kit**

- Kit contains 26 terminal release tools that assist in easily removing terminals from electrical connectors.
- Using the correct terminal release tool eliminates damage to wires or terminal blocks.
- The handles are individually marked for quick reference against the application chart.
- Applications: BMW, Opel, VW/Audi, Mercedes, Jaguar, Porsche, SAAB, Seat, Skoda, Ford, Renault, Citroen, Chrysler, Fiat, Ford, Honda, Mazda, Mitsubishi, and Toyota vehicles.
- Packed in a blow mold case

**LIS69600****Test Probe Kit**

- Provides a better way to check circuitry with a circuit tester or meter
- Kit includes 14 flexible test probes, long straight probe, piercing back probe, crocodile clip, 4mm circuit tester adapter and Deutsch spooned probe
- The probes are designed to be used on popular Weather-Pack, Metri-Pack and Micro-Pack style connectors
- The test probes are 5" in length and are flexible to help eliminate damage to the connector terminals that can result from testing with a standard test probe
- The 4mm adapter allows conversion of some circuit testers to a 4mm banana connector, which provides a better connection

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ELECTRICAL SERVICE

Terminal Assortments

**KTI00037****180-piece Solderless Terminal Kit**

Solderless terminal kit includes 180 pieces of the most popular terminal rings, spades, male and female disconnects and butt connectors.

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Part Number	Description	Qty
KTI04057	Ring Terminal Wire Size: 22-18 Stud Size: 10	10
KTI04058	Ring Terminal Wire Size: 16-14 Stud Size: 6	10
KTI04059	Ring Terminal Wire Size: 16-14 Stud Size: 10	10
KTI04062	Ring Terminal Wire Size: 12-10 Stud Size: 10	10
KTI04063	Ring Terminal Wire Size: 12-10 Stud Size: 1/4	10

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Part Number	Description	Qty
KTI04069	Butt Connector Wire Size: 22-18	10
KTI04070	Butt Connector Wire Size: 16-14	10
KTI04071	Butt Connector Wire Size: 12-10	10
KTI04072	Male Slide Terminal Wire Size: 22-18 Tab Size: .250	10
KTI04073	Female Slide Terminal Wire Size: 22-18 Tab Size: .250	10
KTI04074	Male Slide Terminal Wire Size: 16-14 Tab Size: .250	10
KTI04075	Female Slide Terminal Wire Size: 16-14 Tab Size: .250	10
KTI04076	Male Slide Terminal Wire Size: 12-10 Tab Size: .250	10
KTI04497	Ring Terminal Wire Size: 22-18 Stud Size: 6	10

**KTI00038****120-piece Shrink Tube Solderless Terminal Kit**

Solderless terminal kit includes 24 popular terminal rings, spades, male and female disconnects, insulated slide terminals and butt connectors. Heat shrink butt connectors make connections weatherproof.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Part Number	Description	Qty
KTI04086	Ring Terminal 22-18 Stud Size 6	5
KTI04087	Ring Terminal 16-14 Stud Size 6	5
KTI04088	Ring Terminal 16-14 Stud Size 10	5
KTI04089	Ring Terminal 12-10 Stud Size 10	5
KTI04090	Ring Terminal 12-10 Stud Size 1/4"	5
KTI04091	Ring Terminal 12-10 Stud Size 3/8"	5
KTI04092	Spade Terminal 16-14 Stud Size 10	5
KTI04093	Spade Terminal 12-10 Stud Size 10	5
KTI04094	Butt Connector Heat Shrink 22-18	5
KTI04095	Butt Connector Solder Seal 22-18	5
KTI04096	Butt Connector Heat Shrink 16-14	5
KTI04097	Butt Connector Solder Seal 16-14	5
KTI04098	Butt Connector Heat Shrink 12-10	5
KTI04099	Butt Connector Solder Seal 12-10	5
KTI04100	Male Slide Terminal 22-18 Stud Size .250	5
KTI04101	Female Slide Terminal 22-18 Stud Size .250	5
KTI04102	Male Slide Terminal 16-14 Stud Size .250	5
KTI04103	Female Slide Terminal 16-14 Stud Size .250	5
KTI04104	Male Slide Terminal 12-10 Stud Size .250	5
KTI04105	Female Slide Terminal 12-10 Stud Size .250	5
KTI04106	Ins. Slide 16-14 Stud Size .250	5
KTI04107	Ins. Slide 16-14 Stud Size .250	5
KTI04108	Ins. Slide 12-10 Stud Size .250	5
KTI04109	Ins. Slide 12-10 Stud Size .250	5

ELECTRICAL SERVICE**Terminal Assortments****KTI00007****40-piece Copper Lug Terminal Assortment**

Copper lug terminal assortment kit includes five each of eight popular sized crimp-on copper lugs for use on 1 to 6 gauge wire. Used for large cable applications like battery cables and grounding cables. Contains 40 pieces.

Part Number	Description	Qty
KTI04057	Ring Terminal Wire Size: 22-18 Stud Size: 10	20
KTI04058	Ring Terminal Wire Size: 16-14 Stud Size: 6	20
KTI04059	Ring Terminal Wire Size: 16-14 Stud Size: 10	20

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**KTI00087****360-Piece Terminal Assortment**

Kit contains 360 insulated PVC-sleeve, zinc-plated wire terminals and connectors. Essential for automotive, small-engine, appliance and electrical repair. Includes 13 of the most common wire connection sizes and styles.

Description	Qty:	Description	Qty:
10-32 ring 16-14 ga.....	30	Butt connector 16-14 ga.	15
3/8" ring 16-14 ga.....	20	Butt connector 12-10 ga.	15
1/4" ring 16-14 ga.....	20	Male bullet 16-14 ga.	10
10-32 ring 12-10 ga.....	20	Female bullet 16-14 ga.	10
3/8" ring 12-10 ga.....	15	Two-way line connector.....	10
1/4" ring 12-10 ga.....	15	Male disconnect 18-14 ga.	10
10 spade 16-14 ga.	30	Female disconnect 18-14 ga.	10
10 spade 12-10 ga.	20	Male ins. disconnect 18-14....	10
Butt connector 22-16 ga.	30	Female ins. disconnect 18-14.10	

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**KTI00039****360-piece Professional Terminal Assortment**

Solderless terminal kit includes 24 of the top terminals including rings, spades, butt connectors, male and female slides, bullet terminals, 2-way and 3-way connectors.

Part Number	Description	Qty
KTI04057	Ring Terminal Wire Size: 22-18 Stud Size: 10	20
KTI04058	Ring Terminal Wire Size: 16-14 Stud Size: 6	20
KTI04059	Ring Terminal Wire Size: 16-14 Stud Size: 10	20

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Heat Shrink**EZRHS34****157 Piece Heat Shrink Set**

- 8 different size tubes • 2:1 Shrink Ratio
- Case features a molded in ruler
- Tubes shrink to fit over cable splices and can be used for wire harnessing, covering, marking and bundling wires
- Use for auto, marine, home, industrial, computer and many more applications

Description	Qty
2.5 x 170mm	40
3.0 x 170mm	40
5.0 x 150mm	25
6.0 x 150mm	25
16 x 170mm	5
10 x 170mm	8
12 x 170mm	10
20 x 170mm	5

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ELECTRICAL SERVICE

Heat Shrink

**KTI00097****157-piece Electric Wire Solderless Terminal Kit**

157-piece electric wire solderless terminal kit includes 17 popular sizes for 10-18 gauge wire. Products are color-coded for convenience.

Description	Qty	Description	Qty
#8 ring terminal 16-14 ga.....	11	Female connector 16-14 ga... 11	
#10 ring terminal 16-14 ga.....	11	Male connector 12-10 ga.....	4
1/4" ring terminal 16-14 ga.. 11		Female connector 12-10 ga... 4	
5/16" ring terminal 12-10 ga.. 8		Male bullet 16-14 ga..... 11	
3/8" ring terminal 12-10 ga ... 4		Female bullet 16-14 ga..... 11	
Butt connect 22-18 ga..... 11		#8 spade terminal 16-14 ga... 11	
Butt connect 16-14 ga..... 22		Quick splice and tap 16-14 ga 4	
Butt connect 12-10 ga..... 8		Quick splice and tap 22-18 ga 4	
Male connector 16-14 ga..... 11			

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KTI07740**235-piece Heat Shrink Kit**

235-piece heat shrink tube kit. Assortment includes eight different sizes in five colors, ranging from 3/32" to 5/8".



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Size: 1/8" Qty

Blue	11
Black.....	11
Orange.....	11
Green.....	11
Yellow.....	11

Size: 1/4" Qty

Blue	11
Black.....	11
Orange.....	11
Green.....	11
Yellow.....	11

Size: 5/8" Qty

Blue	1
Black.....	1
Orange.....	1
Green.....	1
Yellow.....	1

Size: 3/32" Qty

Blue	8
Black.....	8
Orange.....	8
Green.....	8
Yellow.....	8

Size: 3/8" Qty

Blue	2
Black.....	2
Orange.....	2
Green.....	2
Yellow.....	2

Size: 3/4" Qty

Blue	1
Black.....	1
Orange.....	1
Green.....	1
Yellow.....	1

Size: 3/16" Qty

Blue	11
Black.....	11
Orange.....	11
Green.....	11
Yellow.....	11

Size: 1/2" Qty

Blue	2
Black.....	2
Orange.....	2
Green.....	2
Yellow.....	2

**KTI00034****105-Piece Dual-Wall Heat Shrink Tubing Assortment Set**

- Protection and insulation of component and wires
- Use for auto, marine, plane, home, industrial, computer, etc.
- Waterproof; Shrink ration: 3:1
- Assortment includes sizes ranging from 3.2mm to 25.4mm

Description	Qty	Description	Qty
3.2mm x 45mm, Color black.. 28		9.5mm x 45mm, Color red..... 3	
3.2mm x 45mm, Color red.... 12		12.7mm x 75mm, Color black.. 5	
4.8mm x 45mm, Color black.. 16		12.7mm x 75mm, Color red.... 3	
4.8mm x 45mm, Color red..... 8		19.1mm x 75mm, Color black.. 3	
6.4mm x 45mm, Color black.... 7		19.1mm x 75mm, Color red.... 2	
6.4mm x 45mm, Color red..... 4		25.4mm x 75mm, Color black.. 4	
9.5mm x 45mm, Color black... 6		25.4mm x 75mm, Color red.... 4	

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**KTI00033****216-Piece Heat Shrink Tubing Assortment Set**

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- Protection and insulation of component and wires
- Color coordinated sizes
- Quick and simple to shrink by heat gun
- Shrink ratio 2:1
- Assortment includes sizes ranging from 2.5mm to 20mm

Description	Qty	Description	Qty
2.5mm x 45mm, Color black.. 50		6mm x 45mm, Color red..... 5	
2.5mm x 45mm, Color red.... 20		10mm x 45mm, Color black... 10	
3.5mm x 45mm, Color black.. 30		10mm x 45mm, Color red..... 10	
3.5mm x 45mm, Color red.... 15		13mm x 45mm, Color black... 10	
4.5mm x 45mm, Color black.. 20		13mm x 45mm, Color red..... 10	
4.5mm x 45mm, Color red.... 10		20mm x 75mm, Color black... 8	
6mm x 45mm, Color black.... 10		20mm x 75mm, Color red..... 8	

ELECTRICAL SERVICE**Heat Shrink****KTI00035****85 Piece Heat Shrink Tube Kit**

Shrink tube assortment kit includes five popular sizes. Ideal for weathertight seal of all electrical connections. Use for insulating, jacketing, bundling and identification. It is mechanically tough and has good abrasion and solvent resistance. Shrink temp - 250°F. Shrink ratio 2:1. Kit contains five sizes (1/8", 3/16", 1/4", 3/8" and 1/2").

Part Number	Description	Qty
KTI02611	1/8" shrink tube	20
KTI02621	3/16" shrink tube	20
KTI02631	1/4" shrink tube	30
KTI02641	3/8" shrink tube	10
KTI04494	1/2" shrink tube	5

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TITAN**TIT45239****106 Piece Dual Wall Heat Shrink Tube Assortment**

- Waterproof Polyolefin heat shrink tubes
- Operating Temperature: -49°F ~ 257°F (-45°C ~ +125°C)
- Shrink Temperature: Starts at 158°F (70°C) and ends at 248°F (120°C)
- 3:1 Shrink Ratio

TITAN**TIT45238****171 Piece Heat Shrink Tube Assortment**

- UL Approved Polyolefin heat shrink tubes
- Operating Temperature: -67°F ~ 257°F (-55°C ~ +125°C)
- Shrink Temperature: Starts at 158°F (70°C) Ends at 230°F (110°C)
- 2:1 Shrink Ratio
- Maximum Electrical Rating: 600 Volts

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Connector Tools**AST9476****209 Piece Weather Pack Connector & Seal Starter Kit**

- For 1.4-3.8mm wires, covering nearly all Weather pack applications

Kit includes 208 Weather pack pieces and 1 Terminal Release Tool for building 1, 2, 3 & 4 pin Delphi Weather pack terminals. This unit is for 1.4 to 3.8mm wires, but can cover nearly all weather pack applications. Includes a Terminal Release Tool, 1.4, 2.5 & 2.8mm diameter silicone wire seals for 1.4-3.8mm wires, male 0.5-0.85mm, 1.25-2.0mm & 3mm terminal receptacles, female 0.5-0.85mm, 1.25-2.0mm & 3mm terminal receptacles, male & female 1, 2, 3 & 4 pole receptacle housings, and male & female 4 pole pin type housings.

ELECTRICAL SERVICE

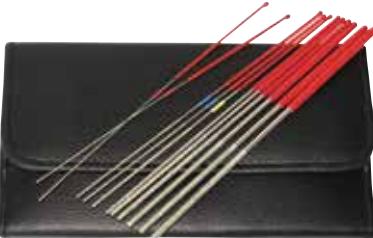
Connector Tools



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AST9475
450 Piece Automotive Wiring Terminal Connector Kit

- Includes the most common insulated and non-insulated terminals and connectors used on automotive and general wiring applications
- Pair with Astro's 9477 Interchangeable Crimper for a tool to crimp all of these connectors
- Connectors meet UL and DIN specifications


IPA8042
Super-Hard Diamond-Coated Round Micro Files

- This 12-piece set of round files is specially designed to remove corrosion from Cannon, Deutsch, Bullet, NATO, Weather Pack, and other round terminal connections
- Size ranges include: 0.030-0.040" (2), 0.040-0.50" (2), 0.050-0.60", 0.060-0.070", 0.070"-0.080", 0.080"-0.090, 0.090"-0.100", 0.100"-0.110", 0.110"-0.120", and 0.120"-0.130
- Comes in a premium quality holster with magnetic clasp

Each tool features a super hard diamond abrasive coating. The smallest sizes are made from Stainless Spring wire for strength and flexibility. Each file is marked and/or color coded for replacements.

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SGT21250
Finger Saver® Wire Piercing Guide

- Quickly, easily and safely guides the pick point of most circuit testers into the center of all primary automotive electrical wire
- Holds the circuit tester in position allowing technician to work with both hands free
- Impervious to gasoline, oil, thinners and other shop chemicals
- Stores on ground wire of circuit tester

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KTI00003
100 Piece Butt Connector Kit

- Vinyl solderless butt connector assortment kit includes three popular sizes for use on 10 to 22 gauge wire

Part Number	Description	Qty
KTI04069	Butt Connectors Vinyl 22-18 Gauge	20
KTI04070	Butt Connectors Vinyl 16-14 Gauge	60
KTI04071	Butt Connectors Vinyl 12-10 Gauge	20

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KTI00004
60 Piece Butt Connector Kit with Shrink Tube

Kit includes three popular sizes for use in many applications including automotive and marine. Heat shrink butt connectors make connections weatherproof.

Part Number	Description	Qty
KTI04094	Butt Conn. Shrink Tubing 22-18Ga.	15
KTI04096	Butt Conn. Shrink Tubing 16-14Ga.	30
KTI04098	Butt Conn. Shrink Tubing 12-10Ga.	15

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ELECTRICAL SERVICE**Wire Crimpers & Strippers****AST9478****220 Piece Interchangeable Ratcheting Crimping Set**

- For assembling and crimping wide range of most common Delphi Weather Pack Connectors
- Quick Interchangeable 4140 chromoly jaws provide two Weather Pack ratcheting pliers in one (H6 Jaws: AWG 22 / 20-18, DIN 0.35 / 0.5-0.8 mm²) (H7 Jaws: AWG 16-14 / 12, DIN 1.0-2.0 / 3.0 mm²)
- Specialized terminal release tool for disassembling packs

**AST9477****7 Piece Professional Quick Change Ratcheting Crimping Tool Set**

- Quick changing jaw design does not require any other tool to change the jaws
- Versatile kit includes 6 dies for many applications
- Ergonomically designed steel frame handles with contoured rubber grips
- Time saving tools allows faster crimping of terminals and wire
- Crimper is easily operated by either left or right hand

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**EZRB7946****3 Point Crimper**

- Convenient 3/8" drive holding fixtures on top and bottom
- Crimps cable terminal ends onto cables up to 4 awg
- Adjustable wrench holding slot on back of tool
- Crimps cables on the vehicle, boat, airplane, great for stereo installs
- Hardened fine thread drive screw for precise crimps

**SGT19100****Wire Stripper for Recessed Areas**

- Narrow profile can easily access limited and hard to reach areas
- Strips 12-22 gauge single or multiple stranded conductor wire
- Automatically adjusts to wire size
- Adjustable strip length gauge
- Built-in wire cutter

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**VIMWSS57****5-in-1 Auto Tech Wiring Tool**

- 7" Long Automotive Electrical Wire Tool
- Use for wire cutting and stripping
- Use as pliers for grab and twisting
- Use for crimping of insulated and non-insulated connectors
- Satin chrome plated with red textured grips

ELECTRICAL SERVICE

Wire Crimpers & Strippers



MADE IN THE USA



CHA908

8-1/4" Wire Stripper/Cutter/Crimper

- Strips wire with no damage to conductor
- Crimps both insulated and non-insulated wire
- Cuts and strips AWG 10-22
- Cuts bolt sizes: 10-24, 6-32, 8-32, 10-32, 4-40
- CHANNELLOCK BLUE® comfort grips
- Laser etched marking for lasting indication of wire gauges

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MADE IN THE USA



CHA909

Crimping Tool With Cutter

- Precision made of fine polished high carbon drop-forged steel
- Perfectly mated cutters, scientifically heat treated to hold their edge
- Made of high carbon C1080 steel for superior performance
- Electronic coating for ultimate rust prevention
- Designed for crimping both insulated and non-insulated solder-less connections and terminals on 10 to 22 AWG wire

MADE IN THE USA



CHA958

6" Wire Stripper / Cutter

- Designed to cut copper wire only
- Precision holes for wire stripping
- Lean plier nose pulls and loops wire
- Scissor-type blades are precision ground and heat treated to hold their edge
- CHANNELLOCK BLUE® comfort grips

These will strip AWG wire sizes: 10, 12, 14, 16, 18, 20 and 22. Also strips mm wire sizes: .80, 1.0, 1.3, 1.6, 2.0, 2.6.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



LIS68450

Wire Crimper/Cutter/Stripper

- Cutter located at the front is ideal for hard to reach and confined situations
- Five screw cutting/sizing stations are located near the pivot point and require less effort when shearing bolts
- Strip 8-18 gauge solid and 10-22 gauge stranded wire and crimp 10-22 AWG insulated & non-insulated connectors
- There is a cutter behind the pivot when needed to cut tough and heavy wire

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LIS68430

6" Wire Stripper

- Features a 3/8" scissor style cutting blade
- Serrated nose jaws strip seven wire sizes which include 10-22 AWG wires
- It features a 6" length with pliers on the nose for looping wire
- The comfortable grips and spring loaded action make stripping and cutting wire a quick and easy job
- A safety lock for protection when the job is finished and ready to be stored

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LIS68440

Wire Stripper/Cutter/Crimper

- Curved cutter at the front requires less effort
- Crimps 10-22 AWG insulated and non-insulated terminals and 7-8mm automotive terminals
- Sizes included are 10-24, 6-32, 8-32, 10-32, 4-40 and 5-40

ELECTRICAL SERVICE**Wire Crimpers & Strippers**

KTI56201
9" Professional Multi Purpose
Crimper and Wire Stripper

- Wire cutter, bolt cutter, and wire stripper in one
- Crimps insulated and open barrel terminals

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



KTI56202
8.5" Professional Multi Purpose
Crimper and Wire Stripper

- Wire cutter, bolt cutter, and wire stripper in one
- Crimps open barrel terminals
- 3.2mm thickness

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



KTI56203
Professional Crimping Tool -
0.5/1.5/2.5/4.0/6.0 MM2

- Crimps non-insulated terminals
- Easy to grip handles

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



KTI56205
8.7" Ratcheting Terminal Crimper

- 8.7" Ratchet Crimper for insulated terminal
- Polypropylene and thermoplastic rubber handle
- Tool capacity: Red 22-18 AWG, Blue 16-14 AWG, Yellow 12-10 AWG
- Carbon steel head
- Adjusted by screwdriver
- Lifetime Warranty
- Lifetime Warranty

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KTI56207
9.75" Professional 8-in-1
Quick and Easy Wire Stripper

- Wire cutter, bolt cutter, wire stripper, and bending wire
- Crimps insulated, non-insulated, and pin terminals

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



SGT19000
Wire Stripper

- Automatically adjusts to wire size
- Cuts and strips solid or stranded 12-22 gage wire
- Handles single or multiple conductor wire
- Easy to use - yields clean, nick-free results every time
- Not designed to strip Teflon or similar insulations

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



SGT18600
Open Barrel Crimping Tool

- For wire gauges 14-24 ga
- Crimps most open barrel terminals including Deutsch, computer sensor and weatherpack
- Thin profile allows access to hard to reach areas
- Steel construction
- Comfortable cushioned grips

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ELECTRICAL SERVICE**Wire Crimpers & Strippers****SGT18880****Terminal Crimper for Deutsch 14, 16 and 18 Gauge Closed Barrel Terminal**

- Crimps Deutsch 14, 16 and 18 Gauge Closed Barrel Terminals that are on heavy duty vehicles, motorcycles, buses, Ag machinery, aeronautical and mining equipment
- Additional use on hi-lift equipment, BMW, Porsche, Mercedes and race cars
- Ratcheting action provides perfect crimp
- E-Z to use just insert terminal and wire then squeeze to complete crimp

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**EZRBC18****Cable Cutter/Crimper Kit**

- B7946 battery terminal crimper
- BK793 battery cable stripper
- B1218 copper strand cable cutter
- BCK18-022 mini breaker bar
- B1218-BM universal bench mount

Dyna Loom - Split Wire Loom

Made in U.S.A.

Dyna Loom - Split Wire Loom

Part #	Description	Length
KTI02751	1/2" I.D. Split Wire Loom	7'
KTI02761	1/4" I.D. Split Wire Loom	10'
KTI02771	3/4" I.D. Split Wire Loom	5'
KTI02781	3/8" I.D. Split Wire Loom	10'
KTI02791	5/8" I.D. Split Wire Loom	6'

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Dyna Loom - Routing Clips

Made in U.S.A.

**Dyna Loom - Routing Clips**

Part #	Description	Qty
KTI02742	1/4" Wire Loom Clips	10
KTI02743	3/8" Wire Loom Clips	10
KTI02744	1/2" Wire Loom Clips	10
KTI02745	5/8" and 3/4" Wire Loom Clips	10

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov