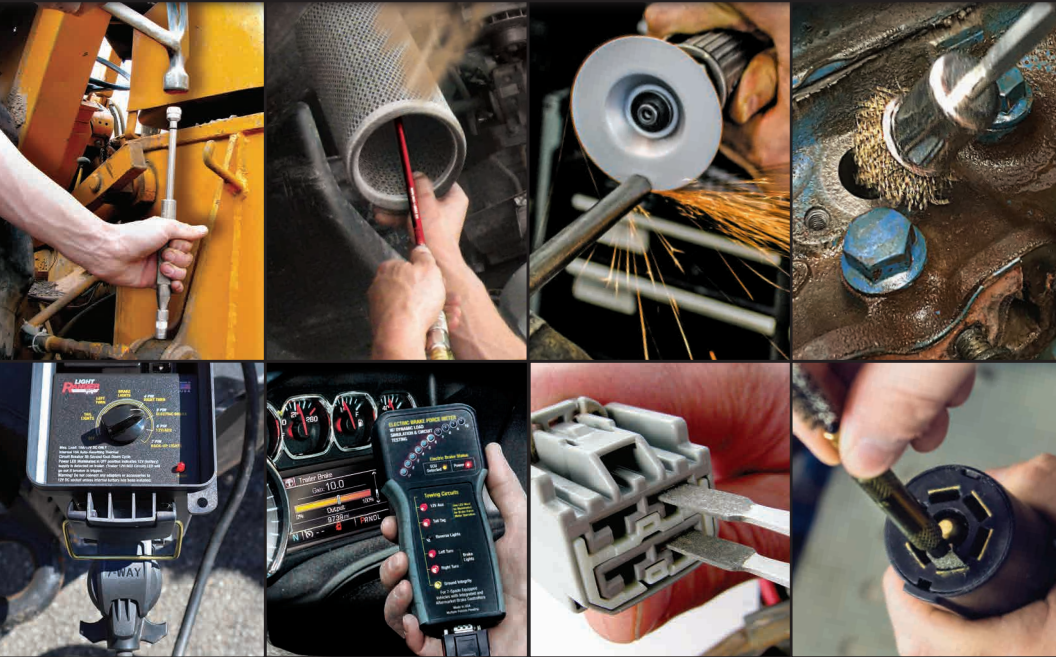




IPA[®]

FUTURE NOW[®]

USA MANUFACTURER OF TOOLS AND EQUIPMENT FOR 25 YEARS
PRODUCT CATALOG



Available Through Your Local Tool Distributor
INNOVATIVE PRODUCTS OF AMERICA.®

LETTER FROM THE PRESIDENT OF IPA®

My name is Ian Vinci and I would like to thank you for your interest in our products. In today's world, we have all experienced the lack of service and consideration demonstrated by many companies after you buy their products. They say whatever they can to make the sale, and then it's like pulling teeth to get any service response out of them. I know this myself firsthand and because of this, I want to be sure that your experience with IPA® meets your expectations and that IPA® never disappoints you with our service or customer response.

To prove my commitment to you, if for any reason you are not happy with one of our products, or more importantly, with the response from our customer service department, or any other member of the IPA® team, I invite you to contact me at president@ipatools.com or call me at 888-786-7899. Your satisfaction is more important to me than the sale itself. We will not be in business for long if we don't make you completely happy with our products and service. I want IPA® to be different and be known for its quality and service.



With that said, please take a look at our product line. You will see innovative, first-time tools that were created to help you do your job faster and better than before. I would also like to invite you to critique our products. If you can think of a better way to make them or changes that will make them work better, please contact me directly and I will be sure to look into it. If you have an innovation and would like some feedback, give me a call.

From all of us at IPA®, we thank you for taking the time to review our product line and wish you and your family the very best of everything.

A handwritten signature in black ink, appearing to read 'Ian Vinci'.

Ian Vinci
President
Innovative Products of America®

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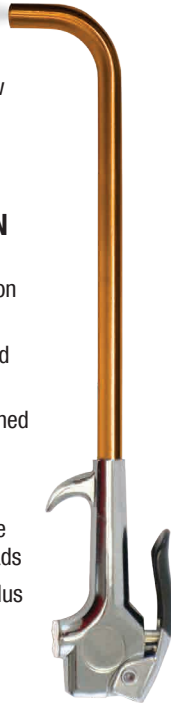
Specially Engineered Blow Guns for a Variety of Common Industrial Applications



The innovative and versatile **3-Pc. Specialty Blow-Gun Assortment** includes an Air Bender®, Air-Scraper and BlowBack® Gun model. They are ideal for countless applications in engine repair, machine shop, Ag/construction, and general industrial applications and much more.

#8056 - AIR BENDER® BLOW GUN

- Reaches hard-to-access areas with a focused, high-pressure, 90° angle output
- Intuitive and safe design allows the blow back to be away from your face
- Ideal for blowing out channels, ports, or reaching around obstructions



#8057 - AIR-SCRAPER BLOW GUN

- Combines air pressure and scouring action to remove and blow away stuck-on debris faster than other methods
- Designed with a stainless-steel shaft and hardened-steel scraper tip
- Ideal for cleaning gasket material hardened to a surface such as grease and rust



#8058 - BLOWBACK® GUN

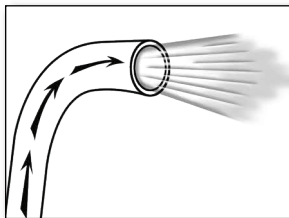
- Dislodges and evacuates debris from the bottom of a bolt hole and all of the threads
- Features 6 extra holes for 360° action plus front air flow
- Ideal for cleaning head-bolt holes, anchor bolt holes, manifolds and more



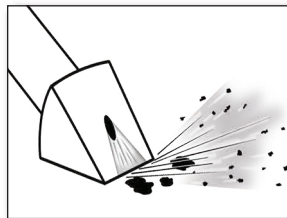
Specifications

Shop Air:	145 psi Max Input	Tube Length:	7"
Air Inlet:	¼" NPT	Tube Diameter:	⅜"
Overall Length:	10 ⅝"	Tube Material:	Anodized Aluminum and Stainless Steel

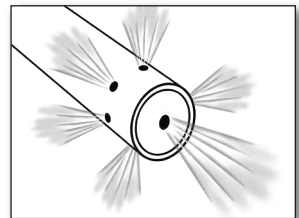
ALSO AVAILABLE INDIVIDUALLY



**# 8056
AIR-BENDER® BLOW GUN**



**#8057
AIR-SCRAPER BLOW GUN**



**#8058
BLOWBACK® GUN**

#8050-#8053 AIR COMB® FILTER AND RADIATOR CLEANER

Patents Pending

90° Multi-Port Air Gun

Special, multi-port nozzle maximizes air pressure and volume at a 90° angle to thoroughly clean air filters, condensers, radiators, etc.

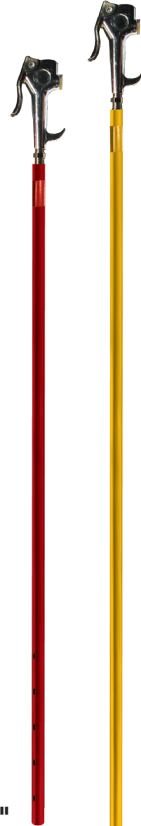
- Focused, high-pressure output
- 5X the air volume
- Long-reaching, 90° airflow
- Accesses hard-to-reach areas
- Great for air filters, condensers, radiators, etc.
- Does not punch holes in air filters
- OSHA safe
- Available in four sizes: 12", 24", 36" and 48"

Industries

Agriculture, Construction, Automotive, Industrial, Stationary Power and Others



#8050 - 12"



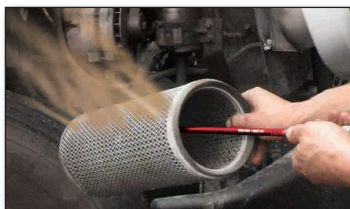
#8051 - 24"



#8052 - 36"



#8053 - 48"



SPECIALTY TOOLS

#7862-#7864 GREASE JOINT REJUVENATOR®

LIFETIME WARRANTY

Patented

Have You Ever Tried to Force Grease Through a Grease Fitting and Couldn't? Now You Can!

The **Grease Joint Rejuvenator®** forces light oil into a grease joint, flushing out old, hardened grease and allowing new grease to be pushed through.

- Instantly opens clogged grease joints
- Cleans ways and stays in milling machines and lathes
- Lubricates and unclogs bearings, control arms, king pins, piston arms, packaging, shafts, bushings, etc.
- Can be used on farm, construction, lawn, excavating, manufacturing, machine shop and well-drilling equipment, as well as trucks, trailers and marine drivetrains



#7863 GREASE JOINT REJUVENATOR® MASTER KIT

Includes

- Professional Model #7862
- Pocket Model #7864
- 5" Flex Hose
- Extra Coupler



#7862 GREASE JOINT REJUVENATOR® PROFESSIONAL MODEL

Includes

- 5" Flex Hose
- Extra Coupler



Also Available in Clamshell: #7862H

#7864 GREASE JOINT REJUVENATOR® POCKET MODEL

- Especially handy for small equipment
- Provides high pressure for stubborn clogs



#8100 14" LARGE MANTUS™

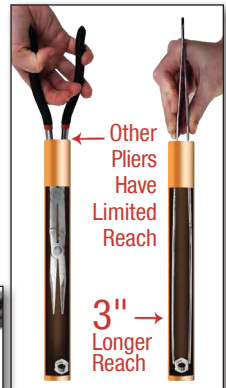
Go Where No Tool Has Gone Before!

The **14" Large MANTUS™** is the ultimate tool for accessing hard-to-reach areas. Surpassing the reach of the industry's longest available needle nose pliers with greater precision and control, the MANTUS™ provides a sure grip on a variety of surfaces including fuses, wires, hoses, gaskets, O-rings, hardware and more!

- Durable, surgical stainless steel construction
- Slim-profile design for reaching tight-access areas
- Extended length for greater versatility



Serrated Interlocking Teeth



Other Pliers Have Limited Reach

3" → Longer Reach

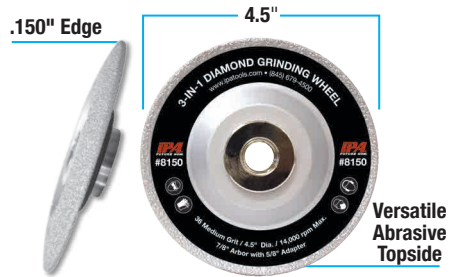
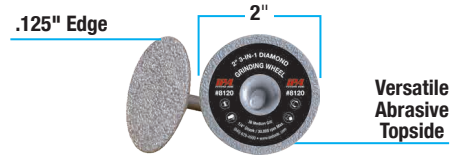
#8041 MANTUS™ TIGHT-ACCESS TOOL

#8120, #8151, #8150 3-IN-1 DIAMOND GRINDING WHEELS

① Grind ② Cut ③ Undercut

For Grinding, Deburring, Surface Prepping, Cutting Sheet Metal, Fiberglass and More

- Outperform standard grinding wheels; maintain diameter, last longer and cut faster
- Core bonding technology increases wheel life a minimum of 20X (2,000%) by exposing the full diamond particles, which provides maximum grinding performance
- Access hard-to-reach areas
- Low sparks, odor and debris
- Save time and cost



Brazed Diamond for Extra Long Grinding Life



Diamond Back Edge for Hard-to-Reach Areas



Thin Profile for Deep Cutting



Specifications	#8120	#8151	#8150
Size	2"	3"	4.5"
Material	Industrial diamonds brazed directly to steel wheel core. (Does not use segments.)		
Applications	For use on ferrous metals, concrete and ceramic. Can also be used on aluminum with proper lubrication.		
Speed	30,000 rpm Max.		14,000 rpm Max.
Arbor/Shank	¼" Shank	⅜" Arbor with ¼" Shank Adapter	⅝" Arbor with ⅝" x 11 Threaded Adapter

ABRASIVES

#8108 8" DIAMOND FILE SET

4-Piece Set of Premium Industrial Files

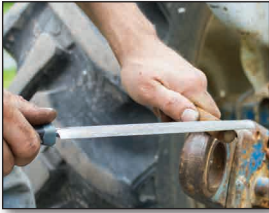
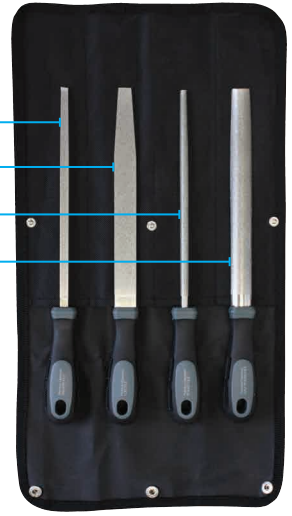
- Many times harder than conventional files
- Cuts 10X faster and in all directions
- Cuts into welds and hardened surfaces where other files can't
- Smooth action
- 12" overall length with 8" blade
- Comes in a custom folding pouch

Square

Flat

Round

Half Round

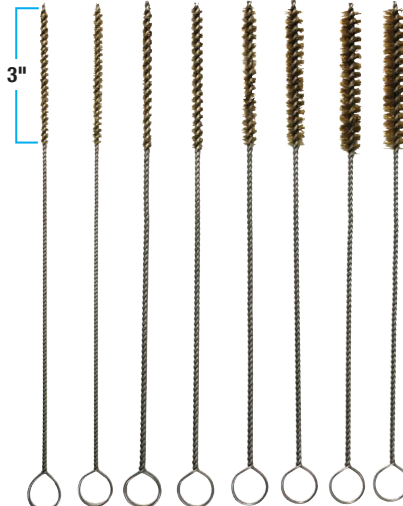


#8087-#8088 MICRO BORE AND VALVE-GUIDE BRUSH SET

8-Piece Set of Small-Diameter Brushes for Precisely Cleaning Valve Guides, Bores, Ports and More

- 9" length with flexible shaft for accessing hard-to-reach areas
- Includes 8 sizes: 1/8", 5/32", 13/64", 1/4", 5/16", 3/8", 7/16" and 1/2"
- Durable, twisted wire for increased cleaning function
- Extra-large finger loop for enhanced control

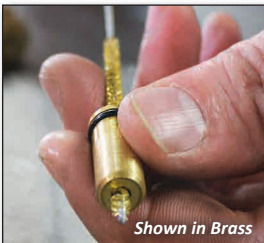
3"



Available in

#8087 Stainless Steel

#8088 Brass



#8090B, #8090S SPECIALTY ENGINE BRUSH KIT

Specially Designed to Clean Bores, Injector and Valve Seats on Most Light, Medium and Heavy-Duty Diesel Motors

17-piece kit includes Helix Brushes, Two-Stage Brushes, Bore Brushes and SWAB-EEZ®.

- Brushes are specially engineered to fit injector seats
- Removes rust, carbon and other debris from seats and cups without damage
- Driver handle features a spring-loaded, quick-lock coupler
- 1/4" drive hex shaft allows for quick interchange of brushes, drivers, extensions and the use of LOW SPEED drills
- 3", 4" and 6" brushes
- Intended for hand use - Do NOT exceed 600 rpm - Clockwise rotation only
- SWAB-EEZ® for cleaning and polishing injector bores and cups

Available in

#8090B Brass

#8090S Stainless Steel



Helix Brushes



Two-Stage Brushes

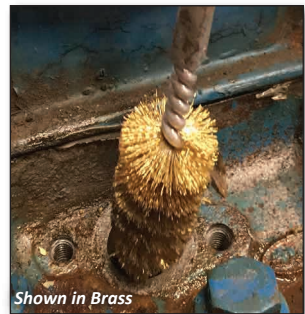


Bore Brushes



Includes:

13 Custom Brushes, Driver Handle, 6" Rigid and Flexible Extensions, 400+ Assorted SWAB-EEZ® and Custom Blow-Molded Case



Shown in Brass



6" Flexible Extension



6" Rigid Extension



Driver Handle with Quick-Lock Coupler

ABRASIVES

#8001D 36-PIECE ORIGINAL BORE BRUSH SET

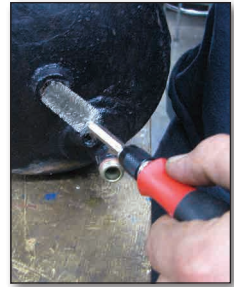
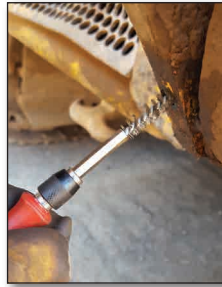
Cleans Bushings, Ports, Tubes, Holes, Channels, Sockets, Brake Guides, Etc.

This 36-piece set has stainless steel, brass and nylon bristle brushes to clean a wide variety of surfaces and locations.

- Twisted wire for increased cleaning action
- For use in Automotive, Agricultural, Industrial and MRO Industries
- Do not exceed 600 rpm

Includes

- 36 Brushes: 12 Steel, 12 Brass and 12 Nylon (8mm-19mm Diameter with 1/4" Hex Shank)
- 1/4" Locking Bit Head Driver

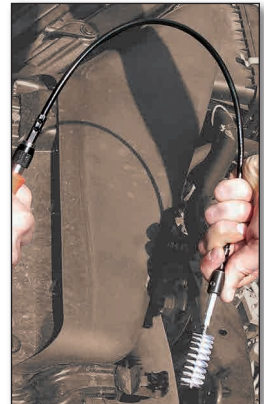


#8004 FLEXIBLE EXTENSIONS (FOR THE BORE BRUSH SET)

Have Full Access to Clean Hard-to-Reach Areas

The set includes 6", 12" and 18" **Flexible Extensions** with a locking set screw.

- 6", 12" and 18" flexible extensions on 1/4" drive hex shank
- Perfect for accessing hard-to-reach transmission valve bodies, oil galleys and EGR ports
- 1/4" female coupler uses a set screw to prevent a brush or similar-type tool from slipping
- Allen key included



#8004D FLEXIBLE EXTENSIONS AND 1/4" DRIVER HANDLE

#8083-#8085 9" BORE BRUSH SETS

3-Piece Set of 9" Bore Brushes with Driver Handle

The 9" long-reach bore brushes are ideal for cleaning tubes, ports, bearings and other deep hole applications.

- 3-piece set (10, 15 and 19mm sizes) with ¼" standard driver handle
- Innovative, long-reach design; ¼" hex shank
- Use on ports, tubes, bearings and other common wire brush applications



#8083 Stainless Steel

#8084 Brass

#8085 Nylon



10mm

15mm

19mm

#8080-#8081 TWISTED WIRE BORE BRUSH SETS

6-Piece Bore Brush Set Features the Most Common Sizes

- Durable and abrasive bore brushes
- 6-piece set (8, 10, 12, 15, 17 and 19mm sizes)
- ¼" hex shank
- Available in stainless steel (#8080) or brass (#8081)
- Do not exceed 600 rpm



#8081 Brass

#8080 Stainless Steel

#8037-#8038 XL BORE BRUSHES (4-PIECE SET)

Cleans Brake Calipers, Throttle Bodies, Fittings and More!

- 4-piece set (25, 30, 35 and 40mm sizes)
- ¼" hex drive, 3 ½" overall length
- Unique large sizes for use on cars, trucks, motorcycles, engines, transmissions, etc.
- Available in stainless steel (#8037) or brass (#8038)
- Also available individually
- Do not exceed 600 rpm



#8037 Stainless Steel

#8038 Brass

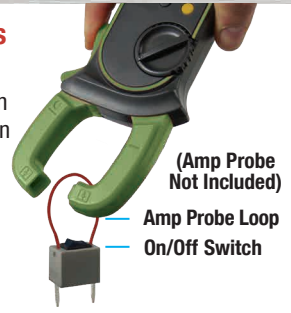


#9038A RELAY BYPASS SWITCH KIT WITH AMP LOOP

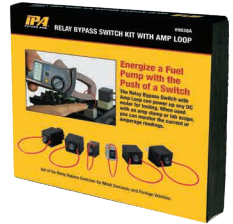
Allows Circuit Bypass and Current Testing for 12V DC Relays

The **Relay Bypass Switch Kit with Amp Loop** energizes fuel pumps and any 12V relay by powering a DC motor for testing. It also makes DC motor actuation and current monitoring easy. By attaching an Amp Clamp or Lab Scope, you can monitor the current or amperage readings. It allows a technician to judge the health of the DC electric motor to identify if a motor is drawing more current than specified, or if the current load is inconsistent during operation.

- Controls relay circuits independent of “key-on/key-off” systems
- Runs automotive, 12V DC motors with the push of a switch
- Simplifies fuel injection testing
- Use in conjunction with clamp-on Amp Probes and Lab Scopes
- Operating range: Up to 20 amp continuous, 30 amp surge (12V)
- Covers most makes and models



#9036A-1 #9036A-2 #9036A-3 #9037A-3 #9037A-2 #9037A-1



#9038 FUEL PUMP RELAY BYPASS MASTER KIT

Energizes a Fuel Pump with the Push of a Switch

Conveniently combining the #9036 and #9037, the 6-piece **Fuel Pump Relay Bypass Master Kit** provides direct control of the fuel pump circuit in most domestic, Japanese, Korean and German applications.



#9036-1
Domestic,
Korean,
Japanese
2000 & Newer

#9036-2
Domestic,
Japanese
1970-2009

#9036-3
Volkswagen
1999-2005
Audi
2004-2006

#9037-3
GM,
Chrysler,
Japanese
1995-2007

#9037-2
BMW
1995-2006

#9037-1
GM, Chrysler,
Japanese
1985-2009

#9036 FUEL PUMP RELAY BYPASS KIT I (3-Piece Set)

Includes #9036-1, #9036-2, #9036-3

#9037 FUEL PUMP RELAY BYPASS KIT II (3-Piece Set)

Includes #9037-1, #9037-2, #9037-3



#8016 FUSE SAVER® MASTER KIT**Chases Down Short Circuits Without Blowing Fuses!**

Provides a level of versatility in electronics testing (5-30 amps) never before available.

- Helps install radios, CD players, radar detectors and accessories with ease
- The BuzzAlert™ module plugs inline to your Fuse Saver® and sounds an alert when the circuit shorts
- The 6-piece Fuse Box Adapter Kit allows access to a wide variety of fuse boxes: FLF, FLS, JCase, MAXI, Female Maxi, screw-on style pal, European ceramic and all glass-style fuses

**Includes**

- 5 Color-Coded, Resetting Breaker Handles: 5, 10, 15, 20 and 30 amps
- #8005-7AS Dual-Type Fuse Box Connector with 10' Cord
- #8011 BuzzAlert™
- #8014 Fuse Box Adapter Kit

**Parts & Accessories**

- | | |
|-----------------------------|-----------------------------|
| #8005-5AMP (5 amp Handle) | #8005-20AMP (20 amp Handle) |
| #8005-10AMP (10 amp Handle) | #8005-30AMP (30 amp Handle) |
| #8005-15AMP (15 amp Handle) | #8005-EXT (10' Ext. Cable) |

**#8005 FUSE SAVER® STANDARD KIT****No More Overheating Fuse Boxes!**

The **Fuse Saver®** provides a fast and safe solution to the old methods of "smoke testing" a short.

- Allows a technician to move around a vehicle shake testing wires while looking for the short
- Dual-type fuse box connector with 10' cord eases the installation of radios, CD players, radar detectors and other accessory equipment

**Includes**

- 3 Color-Coded, Resetting Breaker Handles: 10, 15 and 20 amps
- #8005-7AS Dual-Type Fuse Box Connector with 10' Cord



#7884 DISC BRAKE SYSTEM ANALYZER

LIFETIME WARRANTY

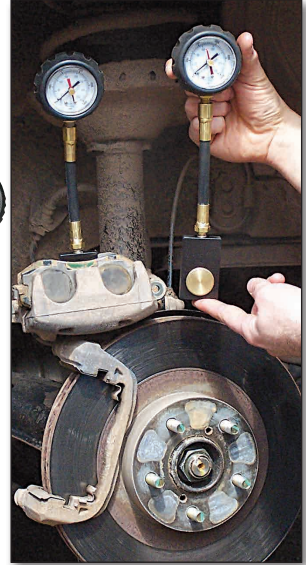
Patented

Uneven Brake Pad Wear? Eliminate Guesswork When Troubleshooting Disc Brake Problems



The only tool that identifies an imploded brake hose and accurately detects exactly where the problem lies without breaking a line.

- Has two load cells attached to analog gauges that each have a range of 0-5000 psi (0-350 BAR)
- Gauges are built with a red tell-tale memory needle that allows for one-man brake testing
- Tests improperly adjusted proportioning valves, air in hydraulic systems, power booster problems, rear brake adjustment check, etc.
- Tests sticky or broken brake calipers
- Identifies the exact cause of uneven wear



#7880 TDC INDICATOR STANDARD 6.25" (14MM THREAD)

LIFETIME WARRANTY

Stop the Guessing and Easily Set a Piston to TDC

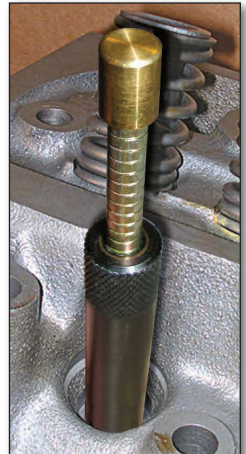
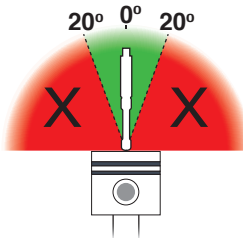


The **TDC Indicator** enables a technician to accurately set a piston to top dead center (TDC). Just remove the spark plug, screw in the gauge and rotate the engine while observing the radial marks on the sliding shaft and note the top of the piston stroke.

- Accurately displays piston movement
- Installs as easily as a spark plug
- 6 1/4" long (14mm thread)
- 1/8" gradient marks
- Made of 1144 steel alloy with a stainless steel spring



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.



#7882 WHISTLE ALERT (RIGID)LIFETIME
WARRANTY**No More Burning Fingers and Hands! Just Listen for the Whistle to Find the TDC Compression Stroke**

The **Whistle Alert (Rigid)** screws into a spark plug hole to quickly indicate compression stroke.

- Eliminates the need for an extra hand
- After installation, your hands are free to complete the job
- Excellent for use on deep, recessed spark plug threads



#7882

MADE IN
USA**#7894 WHISTLE ALERT (FLEXIBLE)**

The **Whistle Alert (Flexible)** identifies compression stroke and performs the same job as the rigid version, but can be placed in hard-to-reach places where the rigid version would be difficult or impossible to place.



#7894

**#7881 COMPRESSION GAUGE EXTENSION**LIFETIME
WARRANTY

Patented

No More Stuck Compression Gauges

The **Compression Gauge Extension** brings a spark plug hole above the valve cover on engines with a deep spark plug socket or coil over design.

- No more difficulty removing threaded hoses from deep holes
- Easy to install and remove
- Adapters available for various applications

MADE IN
USA**#7885, #7892 SPARK PLUG THREAD ADAPTERS**LIFETIME
WARRANTY**#7885 SPARK PLUG HOLE ADAPTER****Enlarges 14mm to 18mm**

Adapts any 14mm spark plug thread to an 18mm hole.

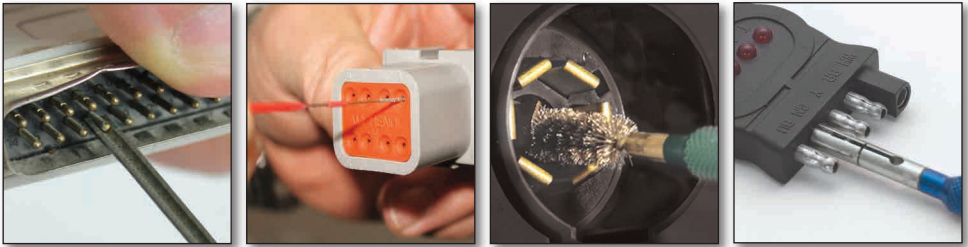
- Can be used as a temporary diagnostic adapter using a 14mm spark plug in an 18mm application

MADE IN
USA

Corrosion Buildup on Electrical Connectors Inevitably Leads to Electrical Component and Circuit Failures. The Contact Care Line from IPA® Provides a Solution for Every Type of Electrical Connection.

The term "Contact Care" was introduced to the industry when Innovative Products of America® (IPA®) saw a need for contact care on a wide range of connectors. The result is a line of cleaning tools that clean and renew all connectors including male, female, spade and round. Contact care is a general term to describe corrosion prevention and maintenance on all types of electrical systems, including flat/spade, round and bullet pins.

Using patented designs, IPA®'s Contact Care Line can clean most types and sizes of electrical contacts ranging from .020" (20 Thousandths) to 1" found in automobiles, commercial tractors, trailers, plows, forklifts, ag and industrial equipment, etc. These tools can access many of the smallest terminals and are designed to precisely scrape corrosion from male and female pins without damaging the integrity of the terminal.



#8048 HD FLEET TECHNICIAN'S ELECTRICAL TERMINAL MAINTENANCE SET

Specially Designed Tools for Cleaning All Vehicle Electrical Connections in Commercial Heavy-Duty Fleets



Cleans and restores male and female terminals on fleet connections.

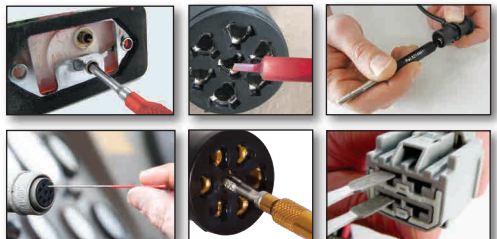
- Removes corrosion and extends harness life
- Ensures proper diagnostic connectivity
- Connector types: Deutsch, Cannon, 7-way round pin, Bullet, Weather Pack, common ABS sensor and power connectors, trailer light connectors, common plow connections, etc.

Includes

- Large and small spade terminal cleaners
- 7-Way Round Pin Terminal Cleaners
- ABS sensor/power connector cleaner
- Ten Diamond Micro Round Files
- Trailer light bullet connector cleaner
- Contact Cleaner
- Premium-quality holster with magnetic clasp



Patented



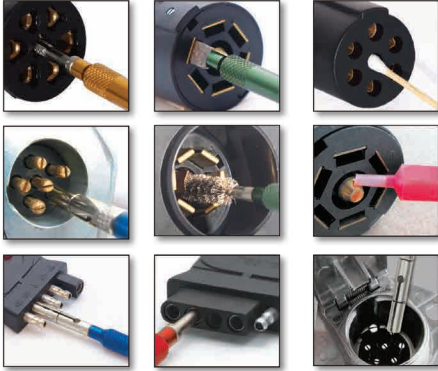
#8044 TRUCK AND TRAILER PIN MASTER CLEANER SET

Patented

The Only Set of Tools to Clean Every North American Trailer Connector

Clean and restore male and female connectors on any trailer connection used in North America.

- Maintains continuity and helps prevent circuit failure
- Cleans and resizes trailer pins
- Removes corrosion and increases harness life



ASSEMBLED
IN USA FROM
GLOBAL
COMPONENTS

Includes

- 4/5 Pin Terminal Cleaner
- 6-Way Round Pin Terminal Cleaner
- 7-Way Flat (Spade) Pin Terminal Cleaners
- 7-Way Round Pin Terminal Cleaners
- SWAB-EEZ®
- Contact Cleaner
- Premium-quality holster with magnetic clasp

#8025 LIGHT-DUTY TRUCK AND TRAILER CONNECTOR CLEANERS

Patented

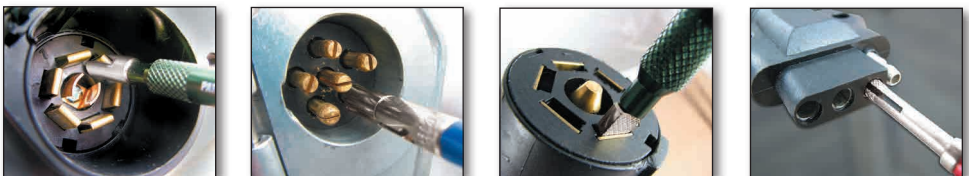
For Light-Duty Truck and Trailer Connectors

Clean and resize male and female connectors on 7-way flat (spade), 6-way round and 4/5 pin terminals.

- Services tail and side-marker light assemblies
- Maintains continuity and prevents circuit failure
- Quickly cuts away corrosion

Includes

- #8021 - For 4/5 Pin Male and Female and 6-Way Round Pin
- #8022 - For 4/5 Pin Male and Female and 6-Way Round Pin Male and Female
- #8023 - For 7-Way Flat (Spade) Pin Male and Female



ASSEMBLED
IN USA FROM
GLOBAL
COMPONENTS

#8024 7-WAY ROUND PIN CONNECTOR CLEANERS

Patented

For Commercial Truck and Trailer Connectors

Clean and resize male and female 7-way round pin tractor trailer connectors.

- Maintains continuity and prevents circuit failure
- Quickly and precisely cuts away corrosion
- Enhances electrical contact points and extends harness life
- Use as a pin-wear gauge
- Male and female terminal cleaners included



Cleans and resizes male...

...AND female connectors



#8045 PLOW TERMINAL CLEANERS

Patented

The First Set of Tools for Cleaning Dirty, Corroded Plow Connectors

Clean and restore male and female electrical plow connectors used on most Boss, Fisher, Meyer, Western plows, etc.

- Removes corrosion and increases harness life
- Repairs intermittent electrical connections

Includes

- Small, medium and large male and female terminal cleaners
- Premium-quality holster with magnetic clasp



#8040 DIAMOND-TIP ELECTRICAL TERMINAL CLEANER

Patented

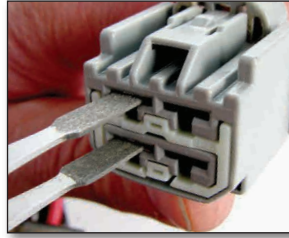
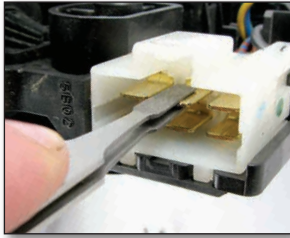
For Electrical Flat (Spade) Pin Connectors

This 3-piece, pro-series set features three different size tips specifically designed and custom engineered to fit and clean most male/female flat pin connectors.

- Highly durable with mild abrasive coating
- Pivoting handle design for added versatility
- Works for both male and female connectors on flat (spade) pin terminals
- Designed to clean and enhance electrical connections safely
- Increases overall harness life

Includes

- Small, medium and large terminal cleaners
- Premium-quality holster with magnetic clasp



#8042 DIAMOND MICRO ROUND FILES

Super Hard, Flexible and Diamond Coated for Cleaning Small, Round, Female Electrical Pins

This 12-piece set of **Diamond Micro Round Files** is specially designed to remove corrosion from Cannon, Deutsch, Bullet, NATO, Weather Pack and other round terminal connections.

- Strong but flexible
- Specially designed for cleaning small, round electrical connectors
- Diameter sizes range from 0.030"-0.120" and 5" long
- For use in general filing applications such as steel, aluminum, plastic, brass, etc.
- Comes in a premium-quality holster with magnetic clasp
- Individual sizes are marked and available for replacement



CONTACT CARE

#8043 MICRO MALE ELECTRICAL PIN CLEANERS

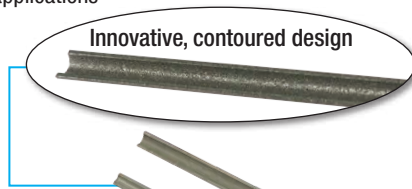
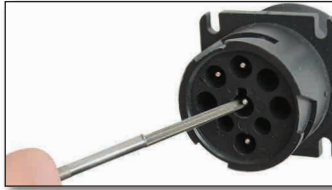
Cleans Deutsch, Cannon, Bullet and Other Round Electrical Pins

Specially engineered with a contoured design and diamond coating to clean male electrical pins safely. The 3-piece set includes a leather-type holster and cleans pins ranging in sizes from .030"-.040", .060"-.070, and .090"-.100" – the same sizes found in most makes of cars, trucks, construction, agriculture, industrial and military equipment.

- For all types of male electrical pin applications
- Durable diamond coating
- For use on DC circuitry only
- Will not damage pins

Includes

- Small, medium and large terminal cleaners
- Premium-quality holster with magnetic clasp



#8047 DIAMOND-COATED FLEXIBLE FLAT FILES

Super Hard, Flexible, Flat Cleaners for Large Spade Electrical Contacts and General Filing Applications

This 3-piece, pro-series set covers a wide range of contact sizes for cleaning and enhancing electrical connections to reduce diagnostic guesswork and increase contact life.

- Highly abrasive and durable
- Ultra thin and flexible for added functionality
- Non-slip, high-viz, ergonomic handles for comfortable use



15mm 9mm 6mm

2X

Thinner than the smallest available file



#8030-#8035A DEOXIT® CLEANER AND SHIELD

Clean and Protect Electrical Connections



DeoxIT® CLEANER

- Cleans and restores connections
- Prevents electrical failure
- Removes oxidation and corrosion
- Enhances electrical contact points



#8035A

DeoxIT® SHIELD

- Lubricates and protects connections
- Use after DeoxIT® cleaner for long-term protection
- For severe environments



#8030



#8031

Use On

Terminals, ABS, input/output sensors, E.C.U. connectors, battery pins and plugs, horn connections, fuel injectors, fuses, ribbon cable connections, tail and head light connections, relays, air flow meters, audio and video connections and more!

#8030 DeoxIT® CLEANER Squeeze Tube 2 ml

#8031 DeoxIT® SHIELD Squeeze Tube 2 ml

#8035A DeoxIT® CLEANER Spray Can 5 oz.

#9010 SWAB-EEZ®

More Uses Than You Can Think Of!

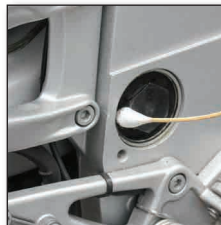
SWAB-EEZ® industrial-strength, low-lint cotton swabs are a great item to keep on hand for a variety of uses. This large, 325-piece assortment comes with an array of head sizes, ranging from 5mm-20mm.

- Industrial strength
- Low-lint, medical-grade cotton
- Soft and nonabrasive
- Highly absorbent tips; no drip or splatter
- Compatible with all solvents; can be presoaked
- Strong, flexible bamboo handles
- Disposable and biodegradable



Industries

- Industrial
- Sports
- Motorcycles
- Automotive
- Pet Care
- Laboratory
- Agricultural
- Modeling
- MRO
- Electronic
- Aircraft
- PBE
- Arts & Crafts



FUEL/FLUID TRANSFER & FILTRATION

#9046F PNEUMATIC FUEL TANK SWEEPER®

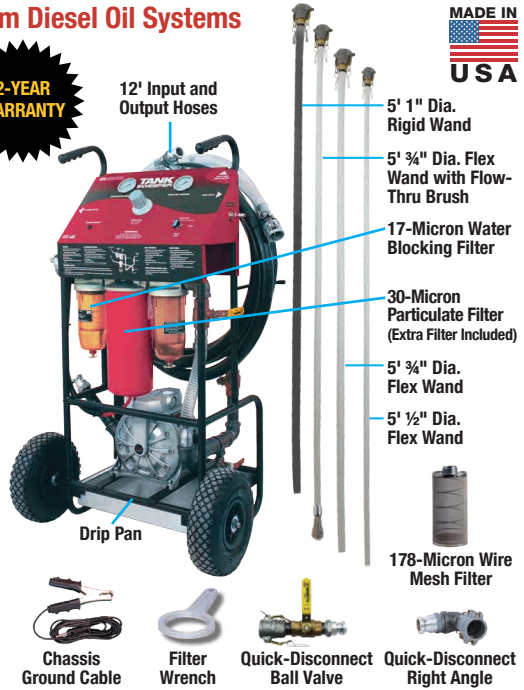
Removes Water and Contaminants from Diesel Oil Systems

Specifications

Pump Type:	Pneumatic Diaphragm
Operating Pressure:	4 cfm @ 22-115 psi
Head-Lift Height:	22'
Unfiltered Flow Rate:	Pump rated up to 24 gpm
Output:	1" dia.
Primary Filter:	30-Micron Particulate
Secondary Filter:	17-Micron Water Blocking
Wands:	Includes 4
Frame:	Powder-Coated Steel
Tires:	10" Tires
Weight:	70 lbs.
Dimensions:	24" W x 42" H x 14" D

Includes

(2) 30-Micron Particulate Filters, 17-Micron Water Blocking Filter, 178-Micron Wire-Mesh Filter, 12' Input Hose, 12' Output Hose, 5' 1" Dia. Rigid Wand, 5' 3/4" Dia. Flex Wand with Flow-Thru Brush, 5' 3/4" Dia. Flex Wand, 5' 1/2" Dia. Flex Wand, Quick-Disconnect Ball Valve, Quick-Disconnect Right Angle, Chassis Ground Cable, Filter Wrench and Drip Pan

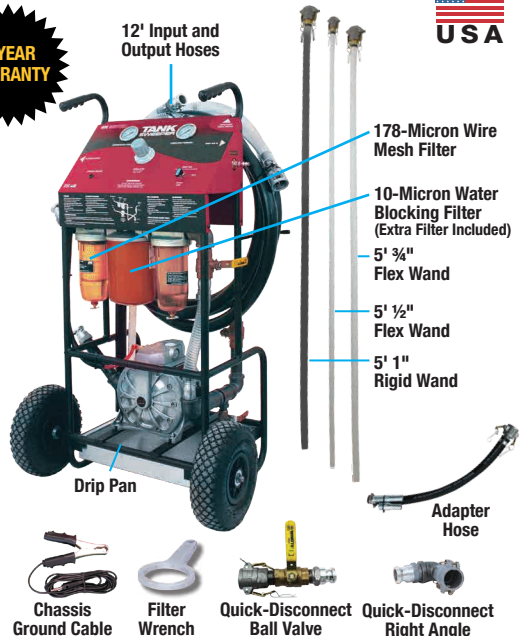


#9046H PNEUMATIC HYDRAULIC OIL TANK SWEEPER®

Removes Water and Contaminants from Hydraulic Oil Systems

Specifications

Pump Type:	Pneumatic Diaphragm
Operating Pressure:	4 cfm @ 22-115 psi
Head-Lift Height:	22'
Unfiltered Flow Rate:	Pump rated up to 24 gpm
Output:	1" dia.
Primary Filter:	10-Micron Water Blocking
Secondary Filter:	17-Micron Water Blocking
Wands:	Includes 3
Frame:	Powder-Coated Steel
Tires:	10" Tires
Weight:	70 lbs.
Dimensions:	24" W x 42" H x 14" D



Includes

(2) 10-Micron Water-Blocking Filter, 178-Micron Wire Mesh Filter, 12' Input Hose, 12' Output Hose, 5' 1/2" Dia. Flex Wand, 5' 1" Dia. Rigid Wand, 5' 3/4" Dia. Flex Wand, Quick-Disconnect Ball Valve, Quick-Disconnect Right Angle, Adapter Hose, Chassis Ground Cable, Filter Wrench and Drip Pan

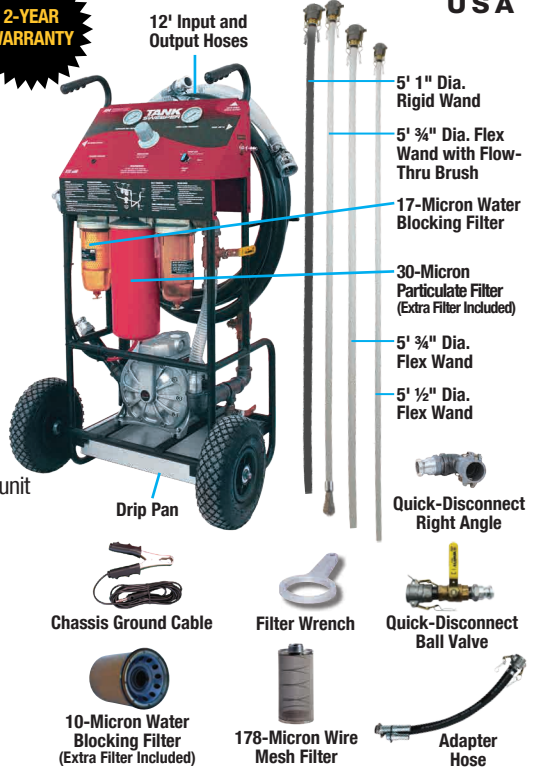
#9046FH PNEUMATIC FUEL AND HYDRAULIC OIL TANK SWEEPER®

A Complete Polishing, Transferring and Filtration System



Features and Benefits

- Filters, polishes and transfers contaminated diesel fuel, fuel oil, hydraulic oil, motor oil, kerosene and most other fluids
- Innovative filter technology shows status and allows bypass for bulk transfer
- Works with small, portable air compressors as low as 4 cfm @ 22-102 psi
- Easily switch between fluids with drain-down design and integrated drip pan
- Closed-circuit hoses feature quick-disconnect fittings
- Complete control over transfer rate
- Access hard-to-reach areas with wands and custom, detachable flow-thru brush
- Ability to transfer multiple types of fluids with one unit



Includes

(2) 30-Micron Particulate Filters, (2) 10-Micron Water-Blocking Filters, 17-Micron Water-Blocking Filter, 178-Micron Wire-Mesh Filter, 12' Input Hose, 12' Output Hose, 5' 1" Dia. Rigid Wand, 5' ¾" Dia. Flex Wand with Flow-Thru Brush, 5' ¾" Dia. Flex Wand, 5' ½" Dia. Flex Wand, Quick-Disconnect Ball Valve, Quick-Disconnect Right Angle, Adapter Hose, Chassis Ground Cable, Filter Wrench and Drip Pan

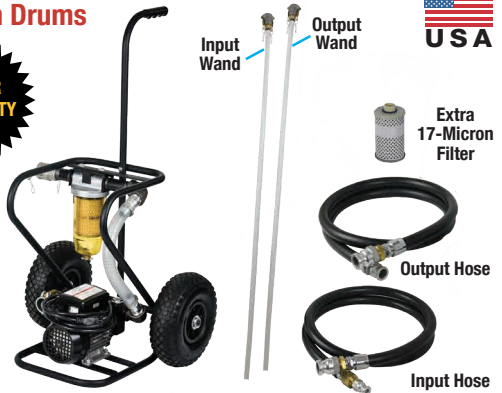
#9049M FLEET TANK SWEEPER® (120V AC)

Lightweight and Portable Filtration System for Tank Applications Including Trucks, Tractors and 55-Gallon Drums



Specifications

- | | |
|--------------|---------------------------|
| Pump Type: | Rotary Vane |
| Pump Req.: | 120V AC (6.5 amp) |
| Flow Rate: | 22 gpm |
| Input Hose: | ¾" dia. |
| Output Hose: | ¾" dia. |
| Filter: | 17-Micron Water Blocking |
| Tires: | 10" Tires |
| Frame: | Steel Construction |
| Weight: | 47 lbs. |
| Dimensions: | 19 ¾" W x 42" H x 17 ¼" D |



Includes

(2) 17-Micron Water-Blocking Filters, 6' Long ¾" Black Input Hose, 6' Long ¾" Black Output Hose, 5' Long ½" Flexible Output Wand and 5' Long ¾" Flexible Input Wand

#9049S FLEET TANK SWEEPER® (120V AC) Base Model

A Complete Diagnostic Trailer Inspection System Integrating All Aspects of Trailer Service and Repair – Perform More Inspections in Less Time!

Bluetooth®

Electrical Testing (12/24 Volt Operation)

- Automatic cross, open, overload, short and ground fault detection
- Highly accurate digital ammeter with 5mA resolution
- Chase down short circuits with Pulsar® Mode
- Cable testing
- Ground failure detection: differentiates between wire and chassis ground
- Detailed inspection report generated from auto-test report function in under 60 seconds

Air Brake Testing

- Tablet or remote-controlled air brake activation
- Real-time, repetitive brake activation to find developing problems and verify leaking servo cans
- Perform analog leak-down tests in service and emergency lines

ABS Testing

- Reads and clears codes on front panel or via tablet
- Displays diagnostic troubleshooting information
- Accesses ECU data; manufacturer, make, model, etc.
- No lag time when accessing ABS with IPA®'s custom diagnostic software

Integrated Face Shield

Military-Grade Tablet with RT Models

MADE IN
USA



Weather-Tight Door



Easy Slide Out Design

SHOP MODEL

SERVICE-TRUCK MODEL

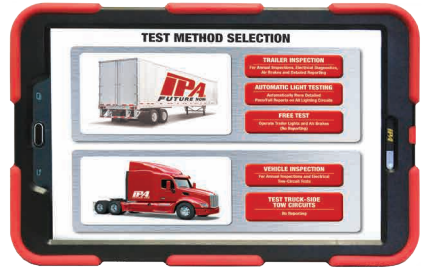
Feature and Benefits

- One-man trailer tester
- Simple and intuitive design
- Automatically captures circuit data
- Paperless PM inspections
- No software fees
- Online training available
- Military/NATO models also available

PRODUCTIVITY SOFTWARE SUITE

Provides Highly Accurate Inspection Results for All Common Trailer Configurations

IPA®'s custom diagnostic software suite provides highly accurate inspection results for all common trailer configurations. It standardizes consistent inspections across all fleet and service center locations with one-button pass/fail inspections and printable reports. It reduces labor time, prevents mistakes and creates more detailed service records.



Capture Inspection Reports

- Inspection accountability
- Customizable, password-protected user login
- Technician's username is recorded with each test
- Trailer VIN entry with each inspection maintains more accurate record keeping

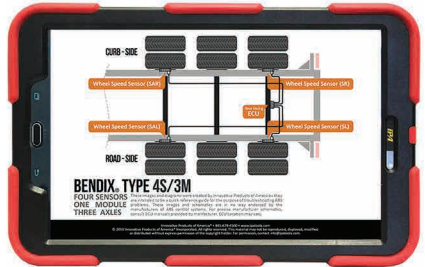
Prevents Recurring Mistakes and Provides Walk-Through Expert Guidance

- Built-in Diagnostic Message Center analyzes inspection results in real-time, providing users with immediate feedback and troubleshooting suggestions
- Detailed pass/fail circuit conditions (ground, open, crossed and short) will alert with specific values
- Provides real-time data and control
- Records multiple data points for each circuit, including wattage, voltage and current
- Reads accurate current from 0-21A @ 5mA resolution



Record and Analyze Inspection Results

- Logs detailed pass/fail inspection reports
- Easily accessible report history allows technicians to analyze patterns for predictable failure points across all fleet service operations
- Upgradeable cloud-based option syncs an unlimited number of service locations with a central hub
- Email, print or export reports to PDF or XLS formats



Base Functions Work with or Without Tablet



Advanced Diagnostic Trailer Tester with Detailed Reporting Capabilities, Purpose-Built for Underbody and Side-Mount Tool Boxes

NEW

**MADE IN
USA**

**3-YEAR
WARRANTY**

Features and Benefits

- Anti-vibration feet with bolt-through design for bottom mounting to service-truck boxes
- Retractable and removable slide-out base for easy access to side components and simplified field service
- Soft-close drawer with integrated tablet docking/charging station and custom foam cutout storage for remote control and Bluetooth® antenna
- Two dual-line, 32-character, sealed LCD screens optimized for outdoor use with backlighting for nighttime, sunlight-readable for daytime and wide-angle view
- Internal circuit board coated to protect from moisture and corrosion
- Weather-tight steel door keeps electronics and control panel safe in all conditions

SERVICE-TRUCK MODEL



Military-Grade Tablet Withstands:

Salt fog, settling and blowing dust, rain, icing, humidity, immersion, vibration, dropping, high/low temperatures, and high altitude.

Specifications

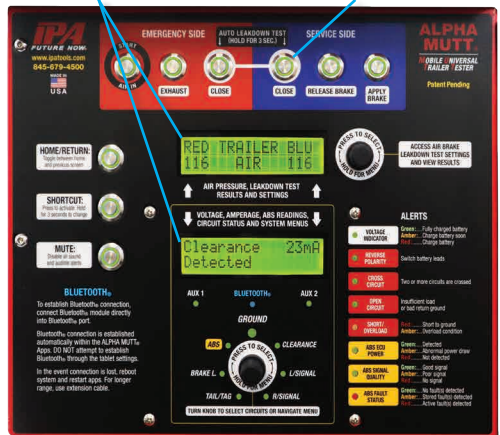
Power Input: 12V DC
 Source Output: 20A @ 12/24V DC
 Ammeter: 5mA-21A
 Max. Opt. Pressure: 120 psi
 Connection Type: 7-Way Round Pin
 Controls: Tablet, Remote or Manual
 Tablet: Android OS
 Bluetooth®: 4.0 or Newer
 Switches: Stainless Steel, Waterproof
 Materials: Powder-Coated Steel
 Weight: 54 lbs.
 Dimensions: 16 1/2" W x 21 1/2" H x 19" D
 Base Extension: Up to 33"

Includes

Rugged Tablet, 12-Button Remote Control, Bluetooth® Antenna, 6' Bluetooth® Antenna Extension Cable, Power Cable, 20' 7-Way Cable and 20' Gladhand Hoses with Handles

Wide-Angle View LCD Screens Readable in Direct Sunlight

Sealed, Waterproof Face with Illuminated Stainless Steel Pushbutton Switches



Also Available:

#5610A-RT8 ALPHA MUTT® (2ND GEN) W/ ABS & RUGGED TABLET **SERVICE-TRUCK MODEL**

#5710A-T10 ALPHA MUTT® (2ND GEN) WITH ABS AND TABLET [SHOP MODEL](#)

Advanced Diagnostic Trailer Tester with Detailed Reporting Capabilities and ABS

Specifications

Power Input:	12/24V DC
Suggested Battery:	(2X) Group 31 Threaded Post (or similar) Not Included
Source Output:	20A @ 12/24V DC
Ammeter:	4mA-21A
Max. Opt. Pressure:	120 psi
Connection Type:	7-Way Round Pin
Controls:	Tablet, Remote or Manual
Tablet:	Android Operating System
Bluetooth®:	4.0 or Newer
Tires:	12" Pneumatic
Materials:	16 Gauge Powder-Coated Steel
Weight:	85 lbs.
Full Body Dimensions:	23" W x 45" H x 22" D
Battery Compartment:	14" W x 15 1/2" H x 13" D
Internal Battery Charger:	12V 10A Smart Battery Charger



NEW



Includes

Tablet, 12-Button Remote Control, 12' 7-Way Cable, 12' Gladhands Hoses with Handles, Bluetooth® Antenna, 12' Bluetooth® Antenna Extension Cable, Power Cord for Internal Charger and Rain Cover

Also Available:

#5710A-RT8 ALPHA MUTT® (2ND GEN) WITH ABS AND RUGGED TABLET [SHOP MODEL](#)

#5705A-RT ALPHA MUTT® WITH ABS AND RUGGED TABLET [BENCH-TOP MODEL](#)

Complete Diagnostic Trailer Inspection System for Service Trucks and Mobile Applications



Specifications

Power Input:	12/24V DC
Air Input:	120 psi Shop Air
Source Output:	20A @ 12/24V DC
Ammeter:	5mA-21A
Connection Type:	7-Way Round Pin
Controls:	Tablet, Remote or Manual
Tablet:	Android Operating System
Bluetooth®:	4.0 or Newer
Materials:	16-Gauge Powder-Coated Steel
Weight:	56 lbs.
w/ Handles/Brackets:	22" W x 31" H x 14" D
w/o Handles/Brackets:	17" W x 31" H x 14" D



Includes

Rugged Tablet, (2) 12-Button Remote Controls, 12' 7-Way Cable, 12' Gladhand Hoses with Handles, Bluetooth® Antenna, 6' Bluetooth® Antenna Extension Cable and External Battery Connectors

Also Available:

#5705A ALPHA MUTT® WITH ABS [BENCH-TOP MODEL](#)



Advanced, Remote-Controlled Diagnostic Trailer Testers

ELECTRICAL TESTING (12/24 Volt Operation)

- Power lights: Manually, All-On, Auto Scan, or by Remote Control
- Audible and visual alerts: cross, open, overloaded, short circuit and ground integrity indication
- Pulsar® mode allows diagnostic repair
- Amperage readout and range (0-20 amps)

ABS TESTING

- Test ABS fault blink codes via Auxiliary and Brake Circuit activation (i.e. Meritor/Wabco, Bendix® TABS-6 and Haldex systems)

AIR BRAKE TESTING

- Performs leak-down test on service and emergency lines
- Remote control allows observation of slackers to measure and adjust pushrods
- Real time, repetitive brake activation to find developing problems and verify leaking servo cans

REMOTE CONTROL

- Included 12-button remotes provide 200+ ft. range
- Sync multiple (12) remotes to one unit

Specifications

Power:	12/24V DC
Air Input:	120 psi Shop Air
Power Input:	Group 31 or Similar Battery (Not Included) or External 12/24V Power Source
Output:	20A @ 12V DC
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	56 lbs.
Dimensions:	21" W x 34" H x 15" D

#9008-SE Base Model Includes

12-Button Remote Control, 5' 7-Way Cable, and 8' Gladhands



#9008-DL PRO EDITION Includes

#9008-SE Accessories, 12-Button Remote Control, 10A Smart Battery Charger, Face/Battery Shield and Rain Cover



3-YEAR WARRANTY

Cable Testing Port

Battery Not Included



12-button remote for one-man testing

#9005A SUPER MUTT® (SERVICE-TRUCK MODEL)

Diagnostic Light, Air Brake and ABS Tester Designed for Service Trucks and Mobile Applications



Specifications

- Power: 12/24V DC
- Air Input: 120 psi Shop Air
- Internal Battery: Yuasa YTX14 or Similar Recommended (Optional, Not Included)
- Ext. Power Input: Adequate 12V Power Source, i.e., Group 31 Battery or Similar
- Output: 20A @ 12V DC
- Connection Type: 7-Way Round Pin
- Controls: Manual, Remote, Automatic
- Materials: Steel Construction
- Weight: 26 lbs.
- Dimensions: 12" W x 11 1/2" H x 9 1/2" D



Optional battery not included

Includes

(2) 12-Button Remote Controls, 5' 7-Way Cable, External Battery Connector, 8' Gladhands, 500mA Battery Charger and Face Shield



#9005A-EXT – 12' Gladhands and 12' 7-Way Cable

#M2000 NATO MUTT®

Quickly Troubleshoots and Repairs Military and Commercial Trailer Lights, Air Brakes and ABS



The NATO MUTT® is designed for on or off-site inspections.

Specifications

- Power: 12/24V DC
- Power Input: Group 31 (or Similar, Battery Not Included) or External 12V Power Source
- Output: 20A @ 12/24V DC
- Connection Type: 12-Pin STANAG 4007 NATO & 7-Way Round Pin
- Controls: Manual, Remote, Automatic
- Materials: Steel Construction
- Weight: 40 lbs.
- Body Dimensions: 21" W x 34" H x 15" D



Includes

(2) 12-Button Remote Controls, 5' 7-Way Cable, 8' Gladhands, 10A Smart Battery Charger, Face Shield and Rain Cover



#9007M SMART MUTT® (7-WAY ROUND PIN) PRO EDITION

Remote-Controlled, Diagnostic Trailer Tester for Commercial Trailer Lights and ABS

Test all trailer electrical systems in a fraction of the time while reducing guesswork that could lead to expensive road calls and citations.



Specifications

Power Input:	12/24V DC
Battery Requirements:	Group 31 or Similar (Not Included)
Output:	20A @ 12/24V DC
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	40 lbs.
Dimensions:	14" W x 28" H x 10" D

Includes

(2) 12-Button Remote Controls, 5' 7-Way Cable, 10A Smart Battery Charger and Rain Cover



#9007A SMART MUTT® (7-WAY ROUND PIN)

A Portable Unit for Commercial Trailer Lighting and ABS

Built to facilitate a one-man testing operation, the **Smart MUTT®** reduces guesswork and inspection time to prevent electrical and ABS failures that lead to expensive road calls and citations.



Specifications

Power:	12/24V DC
Internal Battery:	Yuasa YTX14 or Similar Recommended (Optional, Not Included)
Ext. Power Input:	Adequate 12V Power Source, i.e., Group 31 Battery or Similar
Output:	20A @ 12V DC
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	15 lbs.
Dimensions:	12" W x 9" H x 9 1/2" D

Includes

12-Button Remote Control, 5' 7-Way Cable and 500mA Battery Charger



Optional battery not included

#9004M SMART MUTT® (7-WAY SPADE PIN) PRO EDITION

Remote-Controlled, Diagnostic Trailer Tester for Light-Duty Trailer Lights and Electric Brakes



A portable, electronic trailer tester that instantly tests lights and electric brakes on light-duty type trailers (7-way flat, 6-way round, and 4/5 pin).

Specifications

- Power Input: 12/24V DC
- Battery Requirements: Group 31 or Similar (Not Included)
- Output: 20A @ 12/24V DC
- Connection Type: 7-Way Flat, 6-Way Round, 4/5 Pin
- Controls: Manual, Remote, Automatic
- Materials: Steel Construction
- Weight: 40 lbs.
- Dimensions: 14" W x 28" H x 10" D

Includes

(2) 12-Button Remote Controls, 3-Way Trailer Adapter, 10A Smart Battery Charger and Rain Cover



#4105 SMART MUTT® X

A Universal, Remote-Controlled, Diagnostic Light Tester for All North American Trailers



NEW



Built to facilitate a one-man lights and electric brake testing operation, the Smart MUTT® X is designed to be used on five trailer connection types: 7-way flat (spade), 7-way round, 6-way round, 5 pin and 4 pin connections.

Specifications

- Power: 12/24V DC
- Internal Battery: Yuasa YTX14 or Similar Recommended (Optional, Not Included)
- Output: 20A @ 12V DC
- Connection Type: 7-Way Round & 7-Way Flat Pin (6-Way Round, 5 Pin and 4 Pin with Adapter)
- Controls: Manual, Remote, Automatic
- Materials: Steel Construction
- Weight: 11.5 lbs.
- Dimensions: 15" W x 9" H x 9 3/4" D

Includes

12-Button Remote Control, 3-Way Trailer Adapter and 500mA Battery Charger



<p>Works on Five Connection Types:</p> <ul style="list-style-type: none"> 7-Way Flat (Spade) Pin 7-Way Round Pin 6-Way Round Pin 5 Pin 4 Pin <p>(6, 5, and 4 Pin Require Use of Included Adapter)</p>		

RANGER MUTT®

Portable, Water-Resistant Trailer Testers for Lights and Electric Brakes



Test the trailer without the truck!

- Short circuit protection
- Turn signal simulation and power verification LED
- Internal battery compartment
- Water-resistant case



Specifications

Input:	12V DC
Output:	10A @ 12V DC
Battery Required:	Yes
Battery Dimensions:	5 7/8" L x 3 3/8" W x 5 3/4" H (Yuasa YTX14 or Similar)
Overload Protection:	Automatic Resetting Internal Breaker
Controls:	Manual Control Knob
Materials:	ABS
Weight:	2 lbs. (empty)



#9101 LIGHT RANGER MUTT®

Utility and RV Type Trailer Tester

- Tests 7-way flat (spade), 6-way round and 4/5 pin trailer-side harnesses

Includes

- 500mA Battery Charger
- 3-Way Trailer Adapter



#9102 HEAVY RANGER MUTT®

Commercial Trailer Tester

- Tests 7-way round pin trailer-side harnesses

Includes

- 500mA Battery Charger



#9200 TACTICAL TRAILER TESTER FIELD KIT

Test and Clean Tow Circuits on All Trucks and Trailers in North America



- Tests all truck-side tow circuits
- Tests all trailer circuits
- Cleans all truck and trailer electrical connections



Includes

- Heavy Ranger MUTT® (YTX14 Battery Not Included)
- 8' 7-Way Round Cable
- 500mA Battery Charger
- 3-Way Trailer Adapter
- Diamond-Tip Electrical Terminal Cleaners
- 7-Way Round to 7-Way Flat Adapter
- 4/5 Pin Trailer Harness Checker
- Truck and Trailer Pin Master Cleaner Set
- 6-Way Round Pin Trailer Circuit Tester
- 7-Way Round Pin Tractor Trailer Circuit Tester
- 7-Way Flat (Spade) Pin Trailer Circuit Tester















Custom Case Features

- Waterproof
- Crushproof
- Custom foam insert
- Pressure Equalization (Purge) Valve
- Lifetime warranty on the case

TRAILER & ELECTRICAL MAINTENANCE

MOBILE UNIVERSAL TRAILER TESTERS - MUTT®

MODEL	PIN TYPE	DIAGNOSTIC	ABS CODES	BRAKE TESTING
 #9101 LIGHT RANGER MUTT® Small Trailer	7-Way Flat Pin	Short Circuit Protection	N/A	Electric Brake Circuit (Max Output 10 Amp)
 #9102 HEAVY RANGER MUTT® Semi Trailer	7-Way Round Pin	Short Circuit Protection	N/A	10 Amp Max Output Available on Auxiliary Circuit
 #4105 SMART MUTT® X Small and Semi Trailer	7-Way Flat, 7-Way Round, 6-Way Round, 4/5 Pin	Short Circuit Protection, Cross and Open Circuit Sensing	N/A	Electric Brake Circuit (Max Output 20 Amp)
 #9004M SMART MUTT® <i>PRO EDITION</i> Small Trailer	7-Way Flat Pin	Short Circuit Protection, Cross and Open Circuit Sensing	N/A	Electric Brake Circuit (Max Output 20 Amp)
 #9007A SMART MUTT® Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	20 Amp Max Output Available on Auxiliary Circuit
 #9007M SMART MUTT® <i>PRO EDITION</i> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	20 Amp Max Output Available on Auxiliary Circuit
 #9005A SUPER MUTT® <i>SERVICE-TRUCK MODEL</i> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Air Brakes
 #9008-DL SUPER MUTT® <i>PRO EDITION</i> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Air Brakes
 #M2000 NATO MUTT® Semi and Military Trailer	7-Way Round Pin 12-Pin NATO	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Air Brakes
 #5611A-RT8 ALPHA MUTT® (2ND GEN) W/ ABS, RUGGED TABLET & SLIDE-OUT BASE <i>SERVICE-TRUCK MODEL</i> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	Digital Air Brake and Leakdown Testing
 #5705A-RT ALPHA MUTT® W/ ABS & RUGGED TABLET <i>BENCH-TOP MODEL</i> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	Air Brakes
 #5710A-T10 ALPHA MUTT® (2ND GEN) W/ ABS & TABLET <i>SHOP MODEL</i> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	Digital Air Brake and Leakdown Testing

REPORTING CAPABILITIES	REMOTE	BATTERY CHARGER	BATTERY TYPE (NOT INCLUDED)	BODY	WEIGHT	WARRANTY
N/A	N/A	500mA	Group 14	Plastic Enclosure w/ Carrying Handle	2 lbs.	1 yr.
N/A	N/A	500mA	Group 14	Plastic Enclosure w/ Carrying Handle	2 lbs.	1 yr.
N/A	12-Button Remote	500mA	Group 14	Steel Enclosure w/ Carrying Handle	11.5 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Uni-body Steel Cart w/ Pneumatic Wheels	40 lbs.	3 yr.
N/A	12-Button Remote	500mA	Group 14	Steel Enclosure w/ Carrying Handle	15 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Uni-body Steel Cart w/ Pneumatic Wheels	40 lbs.	3 yr.
N/A	(2) 12-Button Remotes	500mA	Group 14	Steel Enclosure w/ Carrying Handle	26 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Uni-body Steel Cart w/ Pneumatic Wheels	56 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Uni-body Steel Cart w/ Pneumatic Wheels	40 lbs.	3 yr.
✓	12-Button Remote, Rugged Tablet	N/A	Group 31	Steel Enclosure with Slide-Out Base	54 lbs.	3 yr.
✓	(2) 12-Button Remotes, Rugged Tablet	10A Smart Charger (Optional)	Group 31	Steel Enclosure	56 lbs.	3 yr.
✓	12-Button Remote, Tablet	10A Smart Charger (Integrated)	Group 31	Uni-body Steel Cart w/ Pneumatic Wheels	85 lbs.	3 yr.

#9107A ELECTRIC BRAKE FORCE METER WITH DYNAMIC LOAD SIMULATION & CIRCUIT TESTING

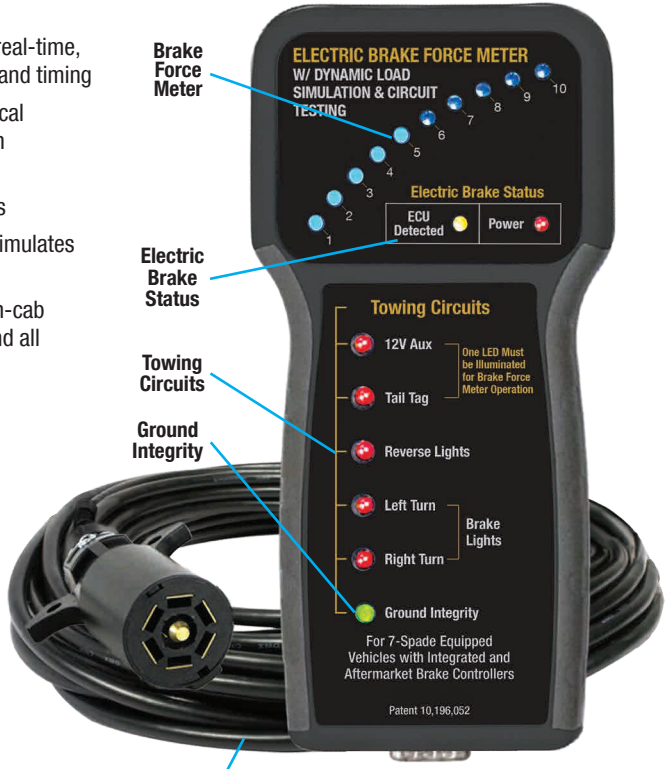
Simulates Trailer Load and Tests All Truck-Side Circuits

Use to verify that the vehicle's adaptive (speed/load sensitive) brake-controller output is functioning properly.



Features and Benefits

- Brake Force Meter displays real-time, brake controller output gain and timing
- Quickly troubleshoots electrical circuits and ground condition
- For use with integrated and aftermarket brake controllers
- Microprocessor controlled; simulates trailer brake loads
- 25' cable allows one-man, in-cab testing of brake controller and all truck-side tow circuits
- Comes in a soft nylon case



7-Way Spade/Flat Vehicle Female Socket (Front View)

PATENTED



Complete One-Man Solution



Real-Time Brake Force Output Gain and Timing

TOWING MAINTENANCE KITS

Patented

Test, Clean and Restore Connectors and Terminals for Cars and Trucks, Agricultural, Industrial, Landscaping, Contracting, Sporting and Fleet Connections



- Quickly test, clean and repair truck and trailer connectors
- Extend harness life
- Great preventative maintenance tools
- Promote safety and limit road hazards
- Connector cleaners can be used as a pin-wear gauge



#8026 4/5 PIN TOWING MAINTENANCE KIT

Includes

- #7866: 4/5 Pin Trailer Harness Checker
- #8021: 4/5 Pin Connector Cleaner
- #8030: 2 ml Contact Cleaner



#8027 6-WAY ROUND PIN TOWING MAINTENANCE KIT

Includes

- #7897: 6-Way Round Pin Trailer Circuit Tester
- #8021 and #8022: 6-Way Round Pin Connector Cleaners
- #8030: 2 ml Contact Cleaner



#8028 7-WAY FLAT (SPADE) PIN TOWING MAINTENANCE KIT

Includes

- #7893: 7-Way Flat (Spade) Pin Trailer Circuit Tester
- #8023: 7-Way Flat (Spade) Pin Connector Cleaners
- #8030: 2 ml Contact Cleaner



#8029 7-WAY ROUND PIN TOWING MAINTENANCE KIT

Includes

- #7865L: 7-Way Round Pin Tractor Trailer Circuit Tester
- #8024: 7-Way Round Pin Connector Cleaners
- #8030: 2 ml Contact Cleaner



TRAILER CIRCUIT TESTERS AND ADAPTERS

Test Towing Circuits at the Back of the Truck

The trailer circuit testers allow one man to test trailer circuits quickly and easily.

- Plugs into the vehicle side socket
- LEDs indicate that each circuit is working
- Winged grip for easy installation and removal



#7865L 7-WAY ROUND PIN TRACTOR TRAILER CIRCUIT TESTER

“One-man testing” for male and female 7-way round pin tractor trailer plugs.

- Allows bypassing of troubled circuitry while on the road
- Packaged with a brass jumper



#7893 7-WAY FLAT (SPADE) PIN TRAILER CIRCUIT TESTER

Tests trailer circuits from the tow vehicle quickly and easily on most light and medium-duty trucks and RVs.



#7897 6-WAY ROUND PIN TRAILER CIRCUIT TESTER

Tests trailer circuits from the tow vehicle quickly and easily on older light and medium-duty trucks and RVs.



#7866 4/5 PIN TRAILER HARNESS CHECKER

Allows one man to trace each lighting function to the terminal in question.



#8000 3-WAY TRAILER ADAPTER

Connect 7-way flat (spade) pin terminal connections to 6-way round pin and 4/5 pin trailer connections.

- Sealed plugs to keep dirt and road debris from corroding connections



#TSTPK1 MULTI TRAILER TESTER JOBBER PACK

All the popular trailer circuit testers in one clamshell.

Includes

#7866: 4/5 Pin Trailer Harness Checker

#7897: 6-Way Round Pin Trailer Circuit Tester

#7893: 7-Way Flat (Spade) Pin Trailer Circuit Tester

#7865L: 7-Way Round Pin Tractor Trailer Circuit Tester (Includes One Brass Jumper)

#8000: 3-Way Trailer Adapter (7-Way Flat Pin To 6-Way Round Pin and 4/5 Pin)





SATISFACTION GUARANTEED

Caliber-Specific Barrel and Breech Cleaners for Most Handguns, Rifles and Shotguns

- Highly absorbent, low-lint cotton heads
- 3" and 8" flexible bamboo handles
- No drip, mess or hassle
- Disposable and biodegradable
- Also ideal for cleaning slides, receivers, chambers, magazine housings, breeches and more



Chisel Tip

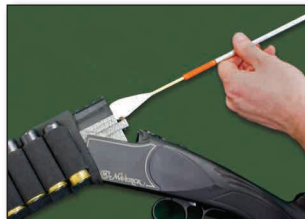
Free Adapter Included

WARNING: Unload Firearm Before Cleaning

Hanging Bags



Part No.	Description	Quantity
#11800	Breech	800
#22300	.22 Caliber	300
#38200	.38/.357/.380/9mm Caliber	200
#40100	.40/10mm Caliber	120
#45075	.44/.45/.410 Caliber	100
#50075	.50 Caliber	80
#22600	.223/5.56mm Caliber	600
#22050	.223/5.56mm Caliber	50
#30300	.30/.308/7.62mm Caliber	300
#20080	20 Gauge	80
#12060	12 Gauge	60
#80250	Gun Detailing Assortment	250



The Most Comprehensive, Patchless, Precision Detailing Kit for Common Caliber and Gauge Sizes

The **Professional Gun Cleaning Master Kit** includes all the brushes, solvents, oils, swabs and attachments needed to clean your entire gun, inside and out. It includes over 550 precision tools and accessories to clean guns for .22 – .45 caliber, as well as 12 and 20 gauge. The specially designed, professional-grade case provides four layers for versatility. The top layer houses cleaning accessories and attachments; the two middle layers include a fold-out cleaning mat and portable work tray; the bottom layer holds bulk precision swabs, solvent, oil and oiling cloth.



Features and Benefits

- For detailing and cleaning guns with caliber and gauge sizes .22 to .75 and 5mm – 12 gauge
- Non-toxic and odor-free cleaning solution and lubricating oil with precision applicator tips
- High performance cleaner destroys carbon; lubricant works in extreme temperatures (-20°F to 520°F)
- Prevent rust on metal components with premium, silicone-infused oiling cloth
- Low-lint, industrial-grade precision cotton swabs

Includes

(8) Standard Bore Brushes, (3) Long Micro Tube Brushes, (3) Double-Ended Specialty Brushes, (2) Double-Ended Picks, Interlocking-Claw Tweezers, Cleaning Mat, Portable Work Tray, Pull-Through Cable and Push Rods with Threaded Adapters, Cleaning Solution, Lubricating Oil, Silicon Oiling Cloth, (500+) Precision Cleaning Swabs



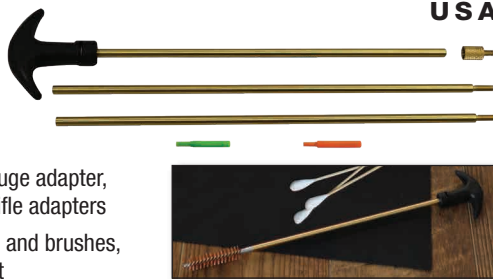
#70035R RAMRODZ® PUSH-ROD WITH HANDLE AND EXTENSIONS

4-Piece, High-Quality, USA Made Brass Cleaning Rod for Use with RamRodz® Caliber-Specific Swabs and Brushes



Features and Benefits

- High-quality, strong and lightweight brass rods
- Easy screw-in assembly with handle
- Includes handle, 2 extension rods, 8/32" to 12 gauge adapter, 2 RamRodz® shotgun adapter, and 2 RamRodz® rifle adapters
- For use with all RamRodz® caliber-specific swabs and brushes, as well as most standard gun-cleaning equipment



RAMRODZ® CLEANING SOLUTION AND LUBRICANT

Biodegradable, Non-Toxic and Odorless Cleaning Solution and Lubricant that Destroys Carbon, Lead and Copper Instantly!

Features and Benefits

#67004C 4 OZ. FIREARM CLEANING SOLUTION

- Odorless and chemical free without reducing performance
- Destroys carbons, lead and copper
- Safe to use in home, at the range, or in the shop

#67001L 1 OZ. FIREARM LUBRICANT

- Penetrates, lubricates and protects
- Extreme friction reducing formula
- Wide working temperature range (-20°F to 520°F)
- Precision, no-drip tip



#68048 RAMRODZ® BORE CABLE KIT

48" Triple-Layer Pull Cable with Patented RamRodz® Adapters for Use with .22 - 12 Gauge RamRodz® Precision Bore Cleaners

Features and Benefits

- 48" triple-layer cable with 3/32" female threads on both ends
- Includes 4 patented RamRodz® adapters
- For use with rifles and shotguns
- Can also be used with most standard gun-cleaning equipment



RAMRODZ® GUN CLEANING SYSTEM

RAMRODZ® RANGE KITS

Start Your RamRodz® Collection with the Convenient and Refillable Range Kit

The caliber-specific, low-lint cotton head RamRodz® are designed to expand into rifling grooves and conform to barrel walls, cleaning the maximum amount of surface area with each pass.

- Assorted RamRodz®, in five common calibers for either pistols or rifles/shotguns
- Breech Cleaner model cleans slides, receivers, breeches and more
- 3" or flexible 8" bamboo handles with low-lint, caliber-specific cotton heads
- Easily stored in a range bag or gun safe



#70680 - for Pistols

Description	Quantity
.22 Caliber	100
.38/.357/.380/9mm Caliber	60
.40/10mm Caliber	50
.44/.45/.410 Caliber	40
.50 Caliber	30
Breech	400



#70565 - for Rifles/Shotguns

Description	Quantity
.223/5.56mm Caliber (Chisel Tip).....	250
.22 Caliber.....	100
.30/.308/7.62mm Caliber.....	125
.45/.410 Caliber.....	30
20 Gauge	35
12 Gauge	25

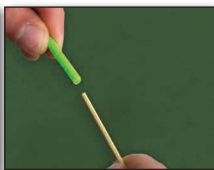
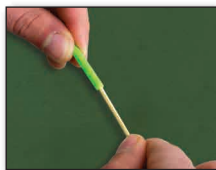
#60010 RIFLE AND SHOTGUN ADAPTERS

Patented

For Use with Caliber-Specific RamRodz® to Clean Long Guns

The RamRodz® Rifle and Shotgun Adapters provide an efficient way to clean rifle and shotgun barrels using caliber-specific RamRodz®.

- When used with RamRodz®, eliminates the need for patches
- Made of durable, reinforced nylon
- Fits standard cleaning-rod threads ($\frac{9}{32}$ ")



Push to Install and Pull to Release



Rifle



Shotgun

We stand behind the quality of our tools and equipment. All of our tools are backed by a 24-Hour (business day) Repair or Replace Policy that is second-to-none. Once your item arrives at our facility, we will repair or replace it and ship it back to you within 24 hours. To return an item for warranty, call our toll free number to receive your RGA# before shipping the product back to IPA®. For more information, please call 888-786-7899 or email: tech247@ipatools.com.



Warranty Information

Innovative Products of America® Incorporated has established a Lifetime, 3-Year, 2-Year or 1-Year Warranty Policy, depending on each tool. Each warranty is suited to an individual product and complete warranty information is included with the product or supplied upon request.

- LR** Lifetime Warranty/Return or Replace Policy: These products are covered for their normal lifetime under the stipulation of the Standard Warranty.
- 3YR** 3-Year Limited Warranty/Return or Replace Policy: These products are covered for 3 years from date of original user purchase under the stipulations of the Standard Warranty.
- 2YR** 2-Year Limited Warranty/Return or Replace Policy: These products are covered for 2 years from date of original user purchase under the stipulations of the Standard Warranty.
- 1YR** 1-Year Limited Warranty/Return or Replace Policy: These products are covered for 1 year from date of original user purchase under the stipulations of the Standard Warranty.

SATISFACTION GUARANTEED

Hours: (M-F) 8:30 am – 5:00 pm EST

234 Tinker Street, Woodstock, NY 12498

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More First-Time Products from IPA®



#8055 3-PC. SPECIALTY BLOW GUN ASSORTMENT

(PAGE 1)

Specially Engineered Blow Guns for a Variety of Common Industrial Applications



#5710A-T10 ALPHA MUTT® (2ND GEN) W/ ABS & TABLET

SHOP MODEL

(PAGE 24)

An Advanced Diagnostic Trailer Tester with Detailed Reporting Capabilities and ABS



#4105 SMART MUTT® X

(PAGE 28)

A Universal, Remote-Controlled, Diagnostic Light Tester for All North American Trailers

IPA®

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