LETTER FROM THE PRESIDENT OF IPA®

My name is Peter 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.

Peter Vinci
President
Innovative Products of America®
SPECIALTY TOOLS
8091 Flow-Thru System w/ Brush and Venturi
8063 Grease Joint Rejuvenator® Master Kit
8062 Professional Model
8064 Pocket Model
8100 14" Large MANTUS™
8041 MANTUS™ 6" Tight Access Tool
8050-8053 Air Combs
8789 Gator Jaws®

TIRE/ALIGNMENT
9060C Five-Tire Pressure Equalizer System
9062C Four-Tire Pressure Equalizer System
9067-9068 Tire Comparator™

DEF TRANSFER SOLUTIONS
9070 Diesel Exhaust Fluid (DEF) Transfer System (120V AC)
9072 DEF Transfer System (12V DC)
9078 DEF Transfer Accessories

FUEL/FLUID TRANSFER & FILTRATION
9049M Fleet Tank Sweeper® (120V AC)
DTP20C Industrial Fuel Cleaner/Transfer System
9080 Diesel Fuel Injection Cleaner & Primer
9046F Pneumatic Fuel Tank Sweeper®
9046H Pneumatic Hydraulic Oil Tank Sweeper®

TRAILER & ELECTRICAL MAINTENANCE
9107A Electric Brake Force Meter
5700 Alpha MURT®
5701 Diagnostic Software Suite
9008 Super MURT® Pro Edition
MUT-RM12 12-Button Remote Control
9005A Super MURT® Head
9007A Smart MURT® (7 Round Pin)
9004A Smart MURT® (7 Flat Pin)
9003A Mini MURT®
9007M Smart MURT® (7 Round Pin) Pro Edition
9004M Smart MURT® (7 Flat Pin) Pro Edition
9101 Light Ranger MURT®
9102 Heavy Ranger MURT®
9104 Memory Saver Kit
8010 12-Pin NATO Truck-Side Circuit Tester
M2000 NATO MURT®
MURT® Comparison Chart
9200 Tactical Trailer Tester Field Kit
8026 4/5 Pin Towing Maintenance Kit
8027 6 Round Pin Towing Maintenance Kit
8028 7 Flat Pin Towing Maintenance Kit
8029 7 Round Pin Towing Maintenance Kit
7865L 7 Round Pin Tractor Trailer Circuit Tester
7893 7 Flat Pin Trailer Circuit Tester
7897 6 Round Pin Trailer Circuit Tester
7866 4/5 Pin Trailer Harness Checker
8000 3-Way Trailer Adapter
TSTPK1 Multi Trailer Tester Jobber Pack

RAMRODZ® GUN CLEANING SYSTEM
RamRodz® Barrel & Breech Cleaners
70680 Range Kit for Pistols
60010 Rifle & Shotgun Adapters

WARRANTY
Warranty Information
Cleans, Restores and Applies Solvents Under Pressure

The Flow-Thru System w/ Brush & Venturi is a versatile, first-time tool. It features stainless steel and abrasive nylon brushes, and a venturi that attaches to an ergonomic, anodized-aluminum handle with integrated flowcontrol valve. It provides an unparalleled cleaning performance when air pressure is combined with degreasing solvent and simultaneous scrubbing action via the flow-through brush heads.

Features and benefits

- For cleaning, degreasing and application of various solvents
- Interchangeable twisted-wire stainless steel and industrial-strength nylon brushes
- Venturi allows for application of solvents under pressure, i.e. degreasers, rust converters, etc.
- Integrated flow valve for ultimate control with pressurized solvents
- Simultaneously dissolve, dislodge and brush away debris
- Unparalleled cleaning in parts washing sink or portable cleaning with air supply
- Self-cleaning design: uses less solvent and keeps work station cleaner
- Countless applications: parts washing, degreasing, on-engine cleaning, fluid evacuation and more

Includes

- Ergonomic Handle with Integrated Flow Valve (145 psi)
- Recessed High-Power Magnet (N40)
- Stainless Steel and Nylon Brush Heads
- Hose Barb Fitting
- Venturi Injector
- 6’ Chemical-Resistant Hose
- Blow Molded Case
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
- Patented

#7862 GREASE JOINT REJUVENATOR® PROFESSIONAL MODEL

Includes
- 5" Flex Hose
- Extra Coupler
- Patented

Also Available in Clamshell: #7862H

#7864 GREASE JOINT REJUVENATOR® POCKET MODEL

- Especially handy for small equipment
- Patented

#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

#8041 MANTUS™ 6" TIGHT ACCESS TOOL
#8050-8053  AIR COMB® FILTER & 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
- Does not punch holes in air filters
- Available in four sizes

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

#7899 GATOR JAWS®

The Most Versatile Filter Pliers for Cars, Trucks and Heavy-Duty Equipment
Built with a powerful grip and tremendous holding power, Gator Jaws® have 32 teeth that can firmly grab an over-tightened filter and loosen it from a variety of angles without slipping.

- Works on oil, fuel and hydraulic filters, fuel sending units and more
- Snakes around hot exhaust manifolds
- 23" length
- Three different settings for optimum grip

New and improved opens wider!
3-IN-1 DIAMOND GRINDING WHEELS

Grind  Cut  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

NEW

Specifications |

<table>
<thead>
<tr>
<th>Specifications</th>
<th>#8120</th>
<th>#8151</th>
<th>#8150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>Material</td>
<td>Industrial diamonds brazed directly to steel wheel core. (Does not use segments.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applications</td>
<td>For use on ferrous metals, concrete and ceramic. Can also be used on aluminum with proper lubrication.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>30,000 rpm Max.</td>
<td>14,000 rpm Max.</td>
<td></td>
</tr>
<tr>
<td>Arbor/Shank</td>
<td>¼&quot; Shank</td>
<td>⅜&quot; Arbor with ⅛&quot; Shank Adapter</td>
<td>⅜&quot; Arbor with ⅛&quot; x 11 Threaded Adapter</td>
</tr>
</tbody>
</table>
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

#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", 1/8", 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

Available in
#8087 Stainless Steel
#8088 Brass
Specially Designed to Clean Injector Seats and Bores 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
- ¼” 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

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

Driver Handle with Quick-Lock Coupler

6” Flexible Extension
6” Rigid Extension
#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 ¼” Hex Shank)
- ¼” 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 ¼” drive hex shank
- Perfect for accessing hard-to-reach transmission valve bodies, oil galleys and EGR ports
- ¼” female coupler uses a set screw to prevent a brush or similar-type tool from slipping
- Allen key included

#8004D FLEXIBLE EXTENSIONS AND ¼” 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

#8080-8081 TWISTED WIRE BORE BRUSH SET

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

#9038A RELAY BYPASS SWITCH KIT WITH AMP LOOP

**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


#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
- #8005-7 Dual-Type Fuse Box Connector with 10’ Cord
- #8011 BuzzAlert™
- #8014 Fuse Box Adapter Kit

**Parts & Accessories**

- #8005-5AMP (5 amp Handle)
- #8005-10AMP (10 amp Handle)
- #8005-15AMP (15 amp Handle)
- #8005-20AMP (20 amp Handle)
- #8005-30AMP (30 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
- #8005-7 Dual-Type Fuse Box Connector with 10’ Cord
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

Saves Time on Engine Set-Up

The **Engine Calibration and Set-Up Kit** contains innovative tools designed to help eliminate mistakes when setting up mechanical engine timing sequences, chains and belts, balance shafts and belts, and distributor installations, as well as when performing general engine set-up procedures.

- Finds TDC compression stroke
- Locks engine for harmonic balancer removal and replacement
- Includes compression extension with adapters and whistles

**Includes**

- #7880 - TDC Indicator Standard 6.25" (14mm Thread)
- #7886 - TDC Indicator Extended 10.75" (14mm Thread)
- #7881 - Compression Gauge Extension
- #7882 - Whistle Alert (Rigid)
- #7894 - Whistle Alert (Flexible)
- #7877 - Crank Stopper
- #7892 - Spark Plug Hole Adapter - Reduces 14mm to 12mm
- #7885 - Spark Plug Hole Adapter - Enlarges 14mm to 18mm
#7880 TDC INDICATOR STANDARD 6.25" (14MM THREAD)

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

#7886 TDC INDICATOR EXTENDED 10.75" (14MM THREAD)

- Same function as the #7880
- 10 3/4" long (14mm thread)

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)

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

#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.
#7881 COMPRESSION GAUGE EXTENSION

**DIAGNOSTICS**

**#7881 COMPRESSION GAUGE EXTENSION**

**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

**#7877 CRANK STOPPER**

**Prevents Crankshaft from Rotating**

The Crank Stopper is a necessary tool for performing leak down tests and valve-seal replacements on engines.

- Holds the crank shaft in place so shop air can be applied to a piston at top dead center
- Prevents shop air from rotating a crank shaft when valve-stem seals are being removed
- Pressure holds the valves in place, allowing valve-stem seal replacement without taking the engine apart
- Up to 100 psi of shop compressed air can be applied to a cylinder at the top of its stroke with valves closed

**SPARK PLUG THREAD ADAPTERS**

**#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

**#7892 SPARK PLUG HOLE ADAPTER**

**Reduces 14mm to 12mm**

Adapts any 14mm spark plug thread to a 12mm hole.
#9050 MOBILE POWER STATION (MPS) WITH PLASMA BOOST™

12/24V Battery Jump Cart with Charger/Maintainer, Load Tester and Plasma Boost™ is Guaranteed to Start Any Engine

The Mobile Power Station (MPS) with Plasma Boost™ is a breakthrough in 12/24 volt jump-cart technology that is setting a new standard for the Automotive and Fleet Industries. Rugged and powerful, the MPS is a fully integrated shop solution for battery maintenance, testing, charging and troubleshooting. The Plasma Boost™ feature is an integrated, momentary 24 volt boost that will overcome even an excessive starter load, jumping any engine and helping diagnose charging system problems in real time. Rugged enough for the most severe environments, the MPS is ideal for the professional automotive, fleet or ag shop.

Features and Benefits
- Jump-starts both 12V and 24V vehicles
- Plasma Boost™ (patent pending) up to 28V/2000 cranking amps, guaranteed to start any engine
- Offers complete and convenient diagnosis of: parasitic draw, charge system output, loose connections, shorted batteries, faulty starters and more
- Integrated 10-second load test of vehicle battery health
- Dual digital ammeters and volt meters monitor internal/external current
- Integrated 10A automatic smart charger/maintainer
- Large 14” pneumatic tires for easy transport on rough terrain
- Swivel-type locking casters for in-shop maneuverability
- Large storage shelf for parts and tools
- Fits two Group 31 batteries (not included)

Includes
- 8’ long 1/0 stranded copper jump leads with heavy-duty solid copper battery clamps

Specifications
- Voltage: 12/24V DC
- Jump Start Output: 1000 Amps @ 12V DC
- Amperage:
  - Charger Input: 110 AC
  - Charger Output: 12V DC @ 10 Amps
  - Amp Meter: 1-1000 Amps
  - Volt Meter: 0-30V DC
  - Battery Req: (2) Group 31 Batteries (Not Included)
- Tires: 12” Pneumatic
- Materials: Powder-Coated Steel
- Dimensions: 23” W x 45” H x 19” D
#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.

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

Includes

- Small, medium and large terminal cleaners
- Premium-quality holster with magnetic clasp
#8086 LIGHT SOCKET BRUSH KIT

Corroded Light Bulb Sockets?
The new tufted end is specially designed to clean the entire light socket in one operation.

- Special tufted end safely cleans the side and bottom of a light socket in one pass
- For 1156/1157 type light bulb sockets and 5/8” - 3/4” bores

Includes
- Brass brush for copper connectors and moderate corrosion
- Stainless steel brush for severe corrosion
- 2 ml Contact Cleaner
- SWAB-EEZ®

#8040 DIAMOND-TIP ELECTRICAL TERMINAL CLEANERS

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
#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

#8045 PLOW TERMINAL CLEANERS

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
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

#8024 7-WAY ROUND PIN CONNECTOR CLEANERS  Patented

Cleans and resizes male...

...AND female connectors

#8025 LIGHT-DUTY TRUCK AND TRAILER CONNECTOR CLEANERS  Patented
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
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
Clean and Protect Electrical Connections

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

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

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!

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
- Automotive
- Agricultural
- Electronic
- Arts & Crafts
- Sports
- Pet Care
- Modeling
- Airplanes
- Motorcycles
- Laboratory
- MRO
- PBE
Inflates, Deflates or Equalizes up to Five Tires at Once

The Five-Tire Pressure Equalizer System provides a turnkey solution to ensure repeatable and consistent tire inflation for all fleet vehicles. It is specifically designed for the fastest fill times, improving fuel mileage, spotting mismatched duals, as well as reducing tread wear, blowouts and tire decapitation.

HIGH-ACCURACY GAUGES
- Increase fuel mileage
- Decrease tire wear
- Improve technician’s confidence
- Provide consistent readings

HIGH-FLOW REGULATORS
- Faster inflation time
- Maintain initial setting

TOGGLE VALVES
- Read individual tire pressures
- Easily identify problem tires

Includes
- Five Color-Coded Air Hoses
- Two Panel-Mounted, High-Flow Regulators
- Two Panel-Mounted, Highly Accurate Air Gauges
- Five Lock-On Air Chucks (#9060M5)

#9060 FIVE-TIRE PRESSURE EQUALIZER SYSTEM
(Base Model)

Includes
- Five Color-Coded Air Hoses
- Two Panel-Mounted, High-Flow Regulators
- Two Panel-Mounted, Highly Accurate Air Gauges

Steer Tire (above)
Drive Tires (right)

Hose Storage
Holster Holds Air Chucks

3-YEAR WARRANTY
Fast and Accurate Four-Tire Inflation, Deflation and Equalization System

Engineered for maximum air volume and the highest possible accuracy, the Four-Tire Pressure Equalizer System ensures repeatable and consistent tire inflation for every shop bay.

- Prevents blowouts and tire decapitation
- Increases fuel mileage and tread life
- Highly accurate, glycerin-filled gauges
- On/off air toggle valves
- Color-coded hoses with corresponding panel indicators
- Internal storage compartment
- Side-mounted hose hangers
- Telescoping handle

Includes

- Four Color-Coded Air Hoses
- One Panel-Mounted, High-Flow Regulator
- One Panel-Mounted, Highly Accurate Air Gauge
- Four Lock-On Air Chucks (#9060M4)

#9062C FOUR-TIRE PRESSURE EQUALIZER SYSTEM

The Ultimate Dual Tire Pairing Gauge – A Quick and Easy Way to Ensure Dual-Mated Tires are Within Tolerance

The Tire Comparator™ is the industry’s fastest and most consistent caliper for comparing tread wear on dual-mated tires. The simple-to-use sliding tolerance gauge requires no measuring, guessing, or even visual inspection. Just hold it against the tire and slide the gauge across the treads for a quick reading every time.

- Helps extend tread life and improve fuel mileage
- Reduces blowouts and tire decapitation
- Can be used on any dual-mated tires
- Lightweight and portable

#9067-9068 TIRE COMPARATOR™

#9067 TIRE COMPARATOR™ (TYPE II)
For ½" tolerances

#9068 TIRE COMPARATOR™ (TYPE III)
For ¼" tolerances
Professional Grade Equipment with 2-Year Warranty

- Corrosion-resistant fittings
- Highly accurate, digital flow meter
- Self-priming

Standard Equipment Includes

- #9070 comes with bracket assembly for totes
- #9072 comes with carrying handle
- DEF-rated 6’ input and 8-20’ output hoses
- DEF-rated transfer nozzle (manual or automatic shut-off)

Specifications

Pump Type: Rotary Diaphragm (AC and DC)
Pump Req.: #9070 120V AC (6.5 amp)
#9072 12V DC (18 amp)
Flow Rate: 9 gpm
Input: ¾” Diameter
Output: ¾” Diameter
Weight: 15 lbs.

#9070 DIESEL EXHAUST FLUID (DEF) TRANSFER SYSTEM (120V AC)
#9070A DEF TRANSFER SYSTEM WITH AUTOMATIC SHUT-OFF NOZZLE
#9072 DIESEL EXHAUST FLUID (DEF) TRANSFER SYSTEM (12V DC)
#9072A DEF TRANSFER SYSTEM WITH AUTOMATIC SHUT-OFF NOZZLE

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>#9070</th>
<th>#9070-12</th>
<th>#9070-20</th>
<th>#9070A</th>
<th>#9070A-12</th>
<th>#9070A-20</th>
<th>#9072</th>
<th>#9072-20</th>
<th>#9072A</th>
<th>#9072A-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V AC Pump</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12V DC Pump</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tote Hanging Design</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Flow Meter</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manual Transfer Nozzle</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto Shut-Off Nozzle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8’ Black Output</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12’ Black Output</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20’ Black Output</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6’ Clear Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6’ Black Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DEF TRANSFER ACCESSORIES

A Selection of High-Quality, DEF-Rated Couplers, Valves and Nozzles

- Constructed of all DEF-rated components
- Ensures a contaminant-free connection every time
- For closed and sealed systems
- For use with IPA’s DEF Transfer Systems

Available Products

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#DEFPPV</td>
<td>Composite Tote Valve and Down Tube Kit</td>
</tr>
<tr>
<td>#DEFSSV</td>
<td>Stainless Steel Tote Valve and Down Tube Kit</td>
</tr>
<tr>
<td>#DEFPPC</td>
<td>Composite DEF Tote Coupler</td>
</tr>
<tr>
<td>#DEFSSC</td>
<td>Stainless Steel DEF Tote Coupler</td>
</tr>
<tr>
<td>#DEF-CAP6</td>
<td>6” DEF Tote Cap</td>
</tr>
<tr>
<td>#9071</td>
<td>DEF Recovery Wand Kit</td>
</tr>
<tr>
<td>#9070-DEFNOZ</td>
<td>Manual Transfer Nozzle</td>
</tr>
<tr>
<td>#9070-DEFNOZA</td>
<td>Automatic Shut-off Nozzle</td>
</tr>
</tbody>
</table>

#9070-DEFNOZ Manual Shut-Off Nozzle

#9070-DEFNOZA Automatic Shut-Off Nozzle

Valves and Couplers Available in Composite or Stainless Steel

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#DEFSSC</td>
<td>Stainless Steel DEF Tote Coupler</td>
</tr>
<tr>
<td>#DEFPPC</td>
<td>Composite DEF Tote Coupler</td>
</tr>
</tbody>
</table>

*Tote-cart not included

*Tote-mount on AC units only

*AC Transfer System

Valves and Couplers Available in Composite or Stainless Steel

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#DEF-CAP6</td>
<td>6” DEF Tote Cap</td>
</tr>
<tr>
<td>#DEFSSV</td>
<td>Stainless Steel DEF Tote Valve and Down Tube Kit</td>
</tr>
<tr>
<td>#DEFPPV</td>
<td>Composite Tote Valve and Down Tube Kit</td>
</tr>
</tbody>
</table>

5’ Flexible Wand

#9071 DEF RECOVERY WAND KIT Stainless Steel Quick Disconnect Fittings
Maintaining diesel oil has always been a science, but with the advent of commercially prepared biodiesels, new threats have arisen from the depths of your fuel tank in the form of algae, sludge and other contaminants.

**Dangers of Biofuel:** Biofuel contamination occurs when organic compounds are left clinging to the sides of a fuel tank which, over time, evolve into an algae-like growth. When a fuel tank runs low, biomass begins to grow and the continuous die-off will accumulate in your filters and injectors, eventually causing engine problems and equipment downtime. Even the finest micron filters will leave behind particles suspended in oil that will begin to grow. Once the contaminated fuel makes its way to the combustion chamber, the tiny particles that do not burn will embed themselves into the valve seats, guides and piston tops, ultimately reducing a diesel engine’s life.

**Prevention and Maintenance:** Several forms of maintenance are available and should be used regularly, such as fuel additives, routine engine filter changing, storage tank cleaning and truck fuel tank cleaning (sweeping and polishing). The best methods only require a few minutes of service at regular intervals.

IPA®’s Fuel Transfer and Filtration Systems are compact, portable and include input and output hoses with special attachments for accessing saddle tanks on fleet trucks and 55-gallon drums. Orifice reduction in the intake and output wands creates an extremely high vacuum and pressure stream capable of blasting most contaminants from the fuel tank walls.

---

**#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" Pneumatic 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**
Battery-Powered, Mobile Filtration System for Vehicle Recovery, Fleet Operations and for Use in Fuel Islands

Specifications
Pump Type: Rotary Vane (Explosion-Proof)
Pump Regs.: UL and CUL Approved
Pump Req.: 12V DC 30A
Flow Rate: Up to 18 gpm
Input: 1" dia.
Output: ¾" dia.
Filter: 17-Micron Water Blocking
Meters: Panel Mounted Volt and Ammeter
Battery Compartment: Two Group 31 Batteries (Not Included)
Frame: Steel Construction
Weight: 75 lbs.
Body Dimensions: 23" W x 42" H x 14" D

Includes
11' Input Hose, 12' Output Hose, Digital Flow-Meter Nozzle
Extra 17-Micron Water-Blocking Filter and Fire Extinguisher

#DTP20C-BIO BIODIESEL FUEL CLEANER AND TRANSFER SYSTEM

Cleans, Primes and Troubleshoots Diesel Injection Systems

Specifications
Battery Type: Group 14, Yuasa YTX14 or Similar (Not Included)
Flow Rate: 27 gph/101 lph
Pressure: 7-9 psi
Dry Weight: 27 lbs.
Capacity: 5 gal.
Hose Length: 10' Coiled
Dimensions: 13" W x 16" H x 13" D

Includes
Flexible Fluid Dispensing Adapter, (3) Hose Adapters, ¼”, ⅜” and ½” Barbed Fuel Fittings, Compucheck® Fitting, Chassis Ground Cable and 500mA Battery Charger
#9046F PNEUMATIC FUEL TANK SWEEPER®

**Removes Water and Contaminants from Diesel Oil Systems**

**Specifications**
- **Pump Type:** Pneumatic Diaphragm
- **Operating Pressure:** 4 cfm @ 22-102 psi
- **Head-Lift Height:** 22' 
- **Unfiltered Flow Rate:** Pump rated up to 26 gpm
- **Output:** 1" dia.
- **Primary Filter:** 30-Micron Particulate
- **Secondary Filter:** 17-Micron Water Blocking
- **Frame:** Powder-Coated Steel
- **Tires:** 10" Pneumatic Tires
- **Weight:** 70 lbs.
- **Dimensions:** 24" W x 42" H x 14" D

**Includes**
- (2) 30-Micron Filters, 17-Micron Filter, 381-Micron Wire-Mesh Filter, 12’ Input Hose, 12’ Output Hose, 5’ 1” Dia. Rigid Wand, 5’ ¾” Dia. Flex Wand with Flow-Through Brush, 5’ ¼” Dia. Flex Wand, 5’ ½” 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 @ 22-102 psi
- **Head-Lift Height:** 22’ 
- **Unfiltered Flow Rate:** Pump rated up to 26 gpm
- **Output:** 1” dia.
- **Primary Filter:** 10-Micron Water Blocking
- **Secondary Filter:** 17-Micron Water Blocking
- **Frame:** Powder-Coated Steel
- **Tires:** 10” Pneumatic Tires
- **Weight:** 70 lbs.
- **Dimensions:** 24” W x 42” H x 14” D

**Includes**
- (2) 10-Micron Filter, 17-Micron Filter, 178-Micron Wire-Mesh Filter, 12’ Input Hose, 12’ Output Hose, 5’ ½” Dia. Flex Wand, 5’ 1” Dia. Rigid Wand, 5’ ¾” Dia. Flex Wand, Quick-Disconnect Ball Valve, Quick-Disconnect Right Angle, Adapter Hose, Chassis Ground Cable, Filter Wrench and Drip Pan
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 soft, nylon case

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

Complete One-Man Solution

Real-Time Brake Force Output Gain and Timing

MULTIPLE PATENTS PENDING
Advanced Diagnostic Trailer Tester with Detailed Reporting Capabilities

The Alpha MUTT® is an all-in-one, mobile, advanced diagnostic tester and inspection system for both vehicles and trailers. It saves time and money by providing mistake-free, paperless inspections that are faster and more efficient than existing methods across all your locations. IPA® uses its own proprietary technology and a custom software suite to achieve unparalleled accuracy and record keeping while conducting electrical, air brake and ABS testing, along with full DOT inspections.

ELECTRICAL TESTING (12/24 Volt Operation)
- Automatic cross, open, overload and short fault detection
- Highly accurate digital ammeter with 5mA resolution
- Chases down short circuits with Pulsar™ Mode
- Cable testing
- Ground failure detection: differentiates between wire and chassis ground
- Controls lights by remote or tablet
- Detailed inspection report generated from auto-test function in under 60 seconds

ABS TESTING
- Diagnostics available on model #5700A

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

Specifications
- Connection Type: 7-Way Round Pin
- Power Input: 12/24V DC
- Suggested Battery: (2X) Group 31 Threaded Post (or similar) Not Included
- Ammeter: 5mA-21A
- Source Output: 20A @ 12/24V DC
- Max. Opt. Pressure: 120 psi
- Tablet: Android Operating System
- Controls: Tablet, Remote or Manual
- Tires: 12" Pneumatic
- Materials: 16 Gauge Powder-Coated Steel Construction
- Weight: 85 lbs.
- Full Body Dimensions: 23" W x 45" H x 22" D
- Battery Compartment: 14" W x 15.5" H x 13" D
- Internal Battery Charger: 12V 10A Smart Battery Charger

Includes
- 10" Tablet, 12-Button Remote, 3-Button Remote, 12’ 7-Way Cable, Chassis Ground Cable, 12’ Gladhands, External Battery Connector and Rain Cover
Provides Highly Accurate Inspection Results for All Common Trailer Configurations

IPA®’s custom diagnostic software suite provides faster and more comprehensive paperless inspections, resulting in less mistakes and citations down the road. The Inspection Customization Tab helps reduce costs and technician/fleet manager frustrations by avoiding time-consuming, failure-prone data entry points.

DOT Inspections

- Trailer VIN and all required information can be entered and saved to avoid redundant data entry
- Customize templates with Inspection Creation Tab
- Inspection accountability
- Technician’s username is recorded with each test

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
- Report history allows fleet managers to analyze patterns for predictable failure points across all fleet and service locations
- Cloud-based option syncs an unlimited number of service locations with a central hub
- Email, print or export reports to PDF or XLS formats
- Software can be utilized on any Android tablet (custom solutions available for other operating systems)
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 remote and (2) 3-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**
- 3-Button Remote Control, 5’ 7-Way Cable, Chassis Ground Cable, External Battery Connector and 8’ Gladhands

**#9008-DL Includes**
- 12-Button Remote Control, (2) 3-Button Remote Controls, 5’ 7-Way Cable, Chassis Ground Cable, External Battery Connector, 8’ Gladhands, 10A Smart Battery Charger, Face/Battery Shield and Rain Cover
#MUT-RM12  12-BUTTON REMOTE CONTROL

Remotely Tests All Trailer Electric Circuitry and Air Brake Actuation with 12 Buttons

- 200+ ft. range
- 340 mHz
- Sync multiple (12) remotes to one unit
- For use with IPA® trailer testers #5700, #9008-DL, #9008-SE, #M2000, #9005A, #9007M and #9004M
- Uses battery type 23A (included)

#9005A  SUPER MUTT® HEAD

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 ½" H x 9 ½" D

Includes

12-Button Remote Control, (2) 3-Button Remote Controls, 5’ 7-Way Cable, External Power Supply Cord, 8’ Gladhands, 500mA Battery Charger, Chassis Ground Cable and Face Shield

Optional battery not included

#9005A-EXT – 12’ Gladhands and 12’ 7-Way Cable
A Portable Unit for Commercial Trailer Lighting and ABS

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 ½" D

Includes

3-Button Remote Control, 5’ 7-Way Cable, Chassis Ground Cable, External Battery Connector and 500mA Battery Charger

#9007A SMART MUTT® (7-WAY ROUND PIN)

A Portable Unit for the Professional Service Shop for Light-Duty Trailer Lighting and Electric Brakes

Specifications

Power: 12/24V DC
Internal Battery: Yuasa YTX14 or Similar Recommended (Optional, Not Included)
Output: 20A @ 12V DC
Connection Type: 7-Way Flat (Spade) Pin
Controls: Manual, Remote, Automatic
Materials: Steel Construction
Weight: 10 lbs.
Dimensions: 12” W x 9” H x 9 ½” D

Includes

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

#9004A SMART MUTT® (7-WAY SPADE PIN)
Remote-Controlled, Diagnostic Trailer Tester for Commercial Trailer Lights and ABS

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
12-Button Remote Control, 3-Button Remote Control, 5' 7-Way Cable, Chassis Ground Cable, External Battery Connector, 10A Smart Battery Charger and Rain Cover

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

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
12-Button Remote Control, 3-Button Remote Control, 3-Way Trailer Adapter, 10A Smart Battery Charger and Rain Cover

3-YEAR WARRANTY
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

#9102 HEAVY RANGER MUTT®
Commercial Trailer Tester
• Tests 7-way round pin trailer-side harnesses

#9104 MEMORY SAVER ACCESSORY KIT
Utilize the Ranger MUTT® as a Memory Saver
The Memory Saver Accessory Kit provides the adapters necessary to allow the Light and Heavy Ranger MUTT® to be used as memory savers once a battery has been installed.
• Connects to vehicle battery and 12V cigarette sockets
• Can be used with other memory-saver products with a female 12V DC port
• Fuse protected

Includes
• 500mA Battery Charger
• 3-Way Trailer Adapter

Includes
• 3’ Cigarette Socket Extension Cable
• 3’ Cigarette Socket to Battery Clip Cable
Tests All Light Circuits on Military Vehicles with NATO Plugs

Verifies continuity on vehicles utilizing a standard 12-Pin NATO socket. The 25' cable allows the user to sit in the cab of the vehicle while testing all the electrical circuits.

- Handheld circuit continuity tester
- STANAG 4007 wiring specifications displayed on label
- Identifies open and crossed circuits
- Ground Selection Switch for testing both wire circuits
- For 12-pin NATO plugs
- 12 to 24V working range
- Includes 25' cable and custom blow-molded case

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

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: MS 75021-2 NATO 12-Pin & 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

12-Button Remote Control, (2) 3-Button Remote Controls, 5’ 7-Way Cable, Chassis Ground Cable, External Battery Connector, 8’ Gladhands, 10A Smart Battery Charger, Face Shield and Rain Cover

For 12-Pin NATO Sockets

#8010 12-PIN NATO TRUCK-SIDE CIRCUIT TESTER

#M2000 NATO MUTT®

12-PIN NATO TRUCK-SIDE CIRCUIT TESTER

#8010 12-PIN NATO TRUCK-SIDE CIRCUIT TESTER

#M2000 NATO MUTT®

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

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: MS 75021-2 NATO 12-Pin & 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

12-Button Remote Control, (2) 3-Button Remote Controls, 5’ 7-Way Cable, Chassis Ground Cable, External Battery Connector, 8’ Gladhands, 10A Smart Battery Charger, Face Shield and Rain Cover

#MUT-RM12 #MUT-RM3-9005A/8 #7900K-1 #7900K-2CHAS #7900K-93 #MUT-GAS8 #KCHG-121001 #9008-4R #CVR-0001
<table>
<thead>
<tr>
<th>Model</th>
<th>PIN Type</th>
<th>Diagnostic</th>
<th>ABS Codes</th>
<th>Brake Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>#9101</td>
<td>7-Way Flat Pin</td>
<td>Short Circuit Protection</td>
<td>N/A</td>
<td>Electric Brake Circuit (Max Output 10 Amp)</td>
</tr>
<tr>
<td>LIGHT RANGER Mutt®</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection</td>
<td>N/A</td>
<td>10 Amp Max Output Available on Auxiliary Circuit</td>
</tr>
<tr>
<td>#9102</td>
<td>7-Way Flat Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>N/A</td>
<td>Electric Brake Circuit (Max Output 20 Amp)</td>
</tr>
<tr>
<td>#9004A</td>
<td>7-Way Flat Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>N/A</td>
<td>Electric Brake Circuit (Max Output 20 Amp)</td>
</tr>
<tr>
<td>SMART Mutt®</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>20 Amp Max Output Available on Auxiliary Circuit</td>
</tr>
<tr>
<td>#9004M</td>
<td>7-Way Flat Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>20 Amp Max Output Available on Auxiliary Circuit</td>
</tr>
<tr>
<td>SMART Mutt®</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>20 Amp Max Output Available on Auxiliary Circuit</td>
</tr>
<tr>
<td>#9005A</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>SUPER Mutt®</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>#9008-SE</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>SUPER Mutt®</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>#M2000</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>NATO Mutt®</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Blink Code</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>#5700</td>
<td>7-Way Round Pin</td>
<td>Short Circuit Protection, Cross and Open</td>
<td>Diagnostics Available on #5700A</td>
<td>Air Brakes</td>
</tr>
<tr>
<td>REPORTING CAPABILITIES</td>
<td>REMOTE</td>
<td>BATTERY CHARGER</td>
<td>BATTERY TYPE (NOT INCLUDED)</td>
<td>BODY</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------</td>
<td>----------------</td>
<td>----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>500mA</td>
<td>Group 14</td>
<td>Plastic Enclosure w/ Carrying Handle</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>500mA</td>
<td>Group 14</td>
<td>Plastic Enclosure w/ Carrying Handle</td>
</tr>
<tr>
<td>N/A</td>
<td>3-Button Remote*</td>
<td>500mA</td>
<td>Group 14</td>
<td>Steel Enclosure w/ Carrying Handle</td>
</tr>
<tr>
<td>N/A</td>
<td>12-Button Remote</td>
<td>10A Smart Charger</td>
<td>Group 31</td>
<td>Unibody Steel Cart w/ Pneumatic Wheels</td>
</tr>
<tr>
<td>N/A</td>
<td>3-Button Remote*</td>
<td>500mA</td>
<td>Group 14</td>
<td>Steel Enclosure w/ Carrying Handle</td>
</tr>
<tr>
<td>N/A</td>
<td>12-Button Remote</td>
<td>10A Smart Charger</td>
<td>Group 31</td>
<td>Unibody Steel Cart w/ Pneumatic Wheels</td>
</tr>
<tr>
<td>N/A</td>
<td>(2x) 3-Button Remote, 12-Button Remote</td>
<td>500mA</td>
<td>Group 14</td>
<td>Steel Enclosure w/ Carrying Handle</td>
</tr>
<tr>
<td>N/A</td>
<td>3-Button Remote*</td>
<td>10A Smart Charger (Optional)</td>
<td>Group 31</td>
<td>Unibody Steel Cart w/ Pneumatic Wheels</td>
</tr>
<tr>
<td>N/A</td>
<td>(2x) 3-Button Remote, 12-Button Remote</td>
<td>10A Smart Charger</td>
<td>Group 31</td>
<td>Unibody Steel Cart w/ Pneumatic Wheels</td>
</tr>
<tr>
<td>N/A</td>
<td>(2x) 3-Button Remote, 12-Button Remote</td>
<td>10A Smart Charger</td>
<td>Group 31</td>
<td>Unibody Steel Cart w/ Pneumatic Wheels</td>
</tr>
<tr>
<td>✔</td>
<td>3-Button Remote, 12-Button Remote, Tablet</td>
<td>10A Smart Charger (Integrated)</td>
<td>Group 31</td>
<td>Unibody Steel Cart w/ Pneumatic Wheels</td>
</tr>
</tbody>
</table>

*12-Button Remote Available Separately
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
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
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)
**A Revolutionary Gun Cleaning System**

**RamRodz®**

**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

**WARNUNG: Unload Firearm Before Cleaning**

**Hanging Bags**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>#11800</td>
<td>Breech</td>
<td>800</td>
</tr>
<tr>
<td>#22300</td>
<td>.22 Caliber</td>
<td>300</td>
</tr>
<tr>
<td>#38200</td>
<td>.38/.357/.380/9mm Caliber</td>
<td>200</td>
</tr>
<tr>
<td>#40100</td>
<td>.40/10mm Caliber</td>
<td>120</td>
</tr>
<tr>
<td>#45075</td>
<td>.44/.45/.410 Caliber</td>
<td>100</td>
</tr>
<tr>
<td>#50075</td>
<td>.50 Caliber</td>
<td>80</td>
</tr>
<tr>
<td>#22600</td>
<td>.223/5.56mm Caliber</td>
<td>600</td>
</tr>
<tr>
<td>#22050</td>
<td>.223/5.56mm Caliber</td>
<td>50</td>
</tr>
<tr>
<td>#30300</td>
<td>.30/.308/7.62mm Caliber</td>
<td>300</td>
</tr>
<tr>
<td>#20080</td>
<td>20 Gauge</td>
<td>80</td>
</tr>
<tr>
<td>#12060</td>
<td>12 Gauge</td>
<td>60</td>
</tr>
<tr>
<td>#80250</td>
<td>Gun Detailing Assortment</td>
<td>250</td>
</tr>
</tbody>
</table>
#70680 RAMRODZ® RANGE KIT FOR PISTOLS

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

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

- 680 assorted RamRodz® in five common pistol calibers
- Breech Cleaner model cleans slides, receivers, breeches and more
- Flexible 8” bamboo handles with low-lint, caliber-specific cotton heads
- Easily stored in a range bag or gun safe

Includes

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>.22 Caliber</td>
<td>100</td>
</tr>
<tr>
<td>.38/.357/.380/9mm Caliber</td>
<td>60</td>
</tr>
<tr>
<td>.40/10mm Caliber</td>
<td>50</td>
</tr>
<tr>
<td>.44/.45/.410 Caliber</td>
<td>40</td>
</tr>
<tr>
<td>.50 Caliber</td>
<td>30</td>
</tr>
<tr>
<td>Breech</td>
<td>400</td>
</tr>
</tbody>
</table>

Caliber Sizing Chart

#60010 RIFLE AND SHOTGUN ADAPTERS

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 (½")

Push to Install and Pull to Release
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: techsupport@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 pm EST
234 Tinker Street, Woodstock, NY 12498
Toll Free: 888-786-7899 • Phone: 845-679-4500 • FAX: 845-679-4600
www.ipatools.com
information@ipatools.com • sales@ipatools.com
customerservice@ipatools.com • techsupport@ipatools.com

Innovative Products of America® Incorporated is a trademark of Innovative Products of America® Incorporated. The specifications and images used in this catalog are based on the latest information at the time of printing. Innovative Products of America® Incorporated reserves the right to change this information within at any time and without notice. Innovative Products of America® Incorporated is not responsible for errors in spelling, punctuation or color matching in the printing of this catalog. Unauthorized use or reproduction of this catalog, images or written copy without the written consent of Innovative Products of America® Incorporated is prohibited. All images are the property of Innovative Products of America® Incorporated. © 2018 Innovative Products of America® Incorporated
More First-Time Products from IPA®...

#8120 - #8151 - #8150
3-IN-1 DIAMOND GRINDING WHEELS
(PAGE 4)
Small 2", 3" and 4.5" Diamond Grinding Wheels for Accessing Hard-to-Reach Areas

#8091 FLOW-THRU SYSTEM W/ BRUSH & VENTURI
(PAGE 9)
Cleans, Restores and Applies Solvents Under Pressure

#9046F PNEUMATIC FUEL TANK SWEEPER®
(PAGE 30)
Removes Water and Contaminants from Diesel Oil Systems

#5700 ALPHA MUTT®
(PAGE 32)
Advanced Diagnostic Trailer Tester with Detailed Reporting Capabilities