TACTICAL TRAILER
TESTER FIELD KIT

OPERATOR'S MANUAL

**Everything Needed to Test, Clean and Restore
Wiring Harnesses on North American Trucks and Trailers**

LETTER FROM THE PRESIDENT OF IPA®

My name is Ian Vinci and I am the president of IPA®. I would like to first thank you for your interest in IPA®'s product line and share my commitment to you, our products and our policies. 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 or any member of the IPA® team, I invite you to contact me directly via my email, 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 products 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.
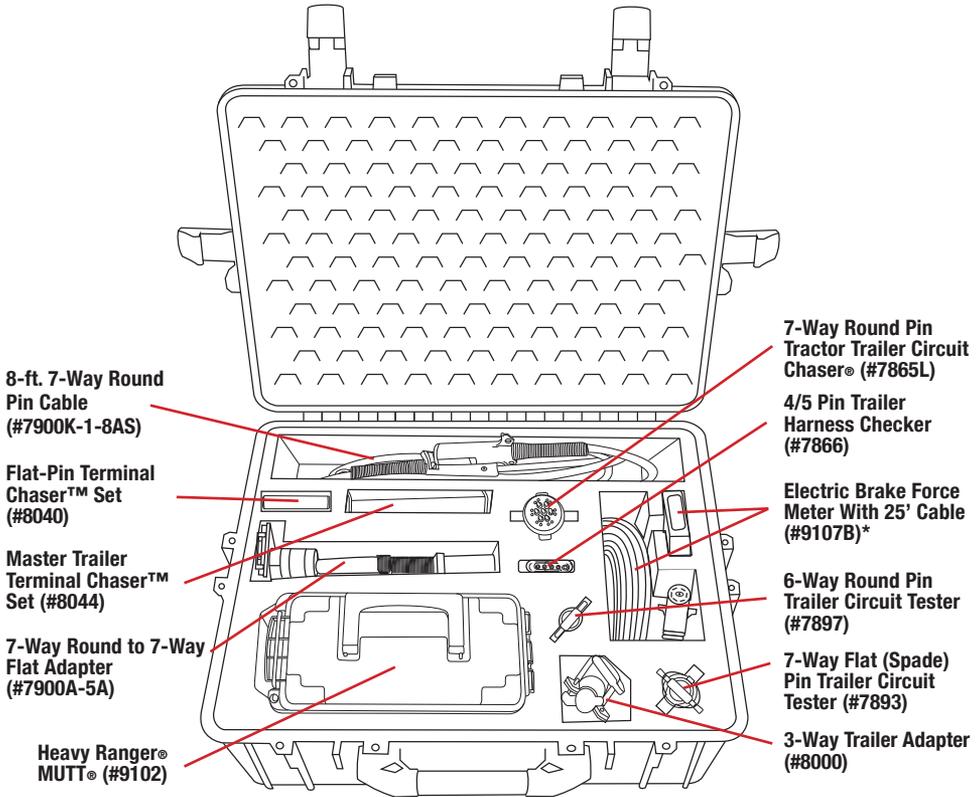
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TACTICAL TRAILER TESTER FIELD KIT PARTS

Available Models: #9200 Base Kit
#9200A Includes Electric Brake Force Meter

Fig. 1 - Parts Diagram

8-ft. 7-Way Round Pin Cable (#7900K-1-8AS)

Flat-Pin Terminal Chaser™ Set (#8040)

Master Trailer Terminal Chaser™ Set (#8044)

7-Way Round to 7-Way Flat Adapter (#7900A-5A)

Heavy Ranger® MUTT® (#9102)

7-Way Round Pin Tractor Trailer Circuit Chaser® (#7865L)

4/5 Pin Trailer Harness Checker (#7866)

Electric Brake Force Meter With 25' Cable (#9107B)*

6-Way Round Pin Trailer Circuit Tester (#7897)

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

3-Way Trailer Adapter (#8000)

The **Tactical Trailer Tester Field Kit** includes everything needed to test, clean and restore wiring harnesses on North American trucks and trailers. The hard-case enclosure is crushproof and water-resistant.

Note: Be sure that the gasket is clean to ensure a proper seal.

* #9107B Electric Brake Force Meter with 25' Cable included in #9200A models only. Can also be purchased separately.

TRAILER AND TRUCK-SIDE TESTERS

HEAVY RANGER® MUTT® (#9102)

Tests lights and electric brakes on commercial type trailers.

Includes:
#CHR0001 500mA Battery Charger and Instruction Manual.

4/5 PIN TRAILER HARNESS CHECKER (#7866)

Instructions: To verify proper lighting operation, insert the 4/5 Pin Trailer Harness Checker into the connector on the tow vehicle. Apply power to the tail lights, turn signals, or brake lights and the corresponding LEDs should illuminate. Brake lights are shown by left and right signal indicators. The following are descriptions for the letter symbols that correspond to the lights on the 4/5 Pin Trailer Harness Checker:

LT = Left Turn Signal   TM = Tail and Markers
RT = Right Turn Signal   A = Auxiliary

6-WAY ROUND PIN TRAILER CIRCUIT TESTER (#7897)

Instructions: To verify proper lighting and brake operation, insert the 6-Way Round Pin Trailer Circuit Tester into the connector on the tow vehicle. Apply power to the tail lights, turn signals or brake lights and the corresponding LEDs should illuminate. Brake lights are shown by left and right signal indicators.

The following are descriptions for the letter symbols that correspond to the lights on the tool head of the 6-Way Round Pin Trailer Circuit Tester:

LT = Left Turn   RT = Right Turn   TM = Tail and Markers
EB = Electric Brake   12V = 12 Volts

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

Instructions: To verify proper lighting and brake operation, insert the 7-Way Flat (Spade) Pin Trailer Circuit Tester into the connector on the tow vehicle. As you apply power to the tail lights, turn signals, brake lights and back-up lights, the LEDs should illuminate. Brake lights are shown by left and right signal indicators.

The following are descriptions for the letter symbols that correspond to the lights on the 7-Way Flat (Spade) Pin Trailer Circuit Tester.

RT = Right Turn   TM = Tail and Markers   BU = Backup Lights
LT = Left Turn   BK = Brake   12V = 12 Volts

TRAILER AND TRUCK-SIDE TESTERS

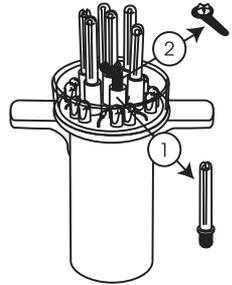### 7-WAY ROUND PIN TRACTOR TRAILER CIRCUIT CHASER® (#7865L)

To Test Circuits:

Plug the 7-Way Round Pin Tractor Trailer Circuit Chaser® into the end of the cable coming from the tractor. With the tester inserted, bring the cable into the cab and begin activating each electrical circuit, e.g. directional, brake lights, etc. The corresponding green circuit LED on the tester should illuminate. If one or more of the LEDs do not come on, that circuit is faulty. The red LEDs indicate reverse polarity. This also works in conjunction with the 7-Way Round Pin Cable (#7900K-1-8AS).

To Bypass a Fault:

• Plug the unit into the cable end to identify the faulty circuit.

• Unplug the unit and unscrew the pin next to the unlit LED (1) with the exception of the auxiliary circuit.

• Install the flat brass jumper (2) over the center pin and bend the tail down into the hole of the removed pin.

• Plug the cable with the 7-Round Pin Tractor Trailer Circuit Tester attached to the trailer and the job is complete.

The following are descriptions for the letter symbols that correspond to the lights on the tool head of the 7-Round Pin Tractor Trailer Circuit Tester.

RTS = Right Turn Signal	GL-TAIL = Tail Lights	STOP = Stop Lights
LTS = Left Turn Signal	GL-Marker = Marker Lights	AUX = Auxiliary

ELECTRIC BRAKE FORCE METER WITH DYNAMIC LOAD SIMULATION AND CIRCUIT TESTING (3RD GEN) (#9107B)

An all-in-one tester that can verify a vehicle's trailering circuits are properly functioning. Patented technology accurately simulates trailer light and electric brake loads to test modern vehicles with integrated trailer brake controllers.
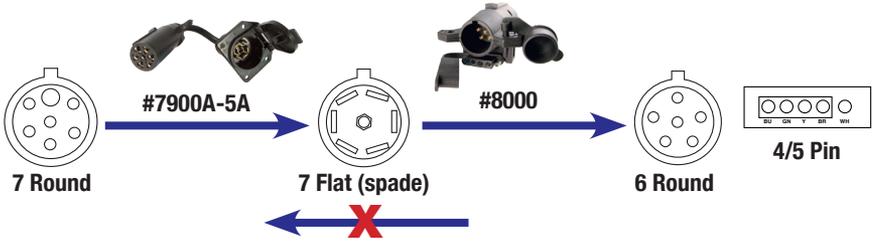
Includes:

25-Ft. Cable and Instruction Manual

Included in #9200A models only. Can also be purchased separately.

CABLES AND ADAPTERS

7-way round pin configurations can be adapted to 7-way flat (spade), 6-way round and 4/5 pin. 7-way flat (spade) pin configurations cannot be adapted to 7-way round pin.

7 Round → #7900A-5A → **7 Flat (spade)** → #8000 → **6 Round** → **4/5 Pin**

8-FT. 7-WAY ROUND PIN CABLE (#7900K-1-8AS)

Instructions: Insert one end of the 7-Way Round Pin Cable into the socket on the front of the Heavy Ranger® MUTT® and the other the other end of the cable into the trailer requiring inspection.

7-WAY ROUND TO 7-WAY FLAT ADAPTER (#7900A-5A)

Instructions: Plug the 7-way round pin end of the adapter into the socket on the front of the Heavy Ranger® MUTT® then connect the 7-way flat (spade) pin end of the adapter to the trailer requiring inspection.

3-WAY TRAILER ADAPTER (#8000)

Adapts a 7-way flat pin connection to 6-way round or 4/5 pin. Works in conjunction with the 7-Way Round to 7-Way Flat Adapter.

Instructions: To install, locate the 7-way flat (spade) pin connection on the #7900A-5A. Line up the keyway and insert the adapter until you feel it bottom out inside the plug. Plug your 6-way round or 4/5 pin trailer connector into the appropriate slot on the adapter.

Once plugged into place, trailer lighting functions should work properly. If lighting functions on trailer do not operate properly, a short or faulty circuit may exist in the vehicle or trailer.

TERMINAL CHASER™ SETS

MASTER TRAILER TERMINAL CHASER™ SET (#8044)

A 9-piece set designed for 4/5, 6-way round, 7-way flat (spade) and 7-way round pin truck and trailer electrical terminals. The pin terminal cleaners allow technicians to remove corrosion from both male and female pins.

	Part #	Description
1	#9011/#9022/#9023	5mm, 6.5mm and 8mm SWAB-EEZ®
2	#CLR188-GOLD-AS	.188 M/F Terminal Chaser™ (Gold)
3	#CLR250-GOLD-AS	.250 M/F Terminal Chaser™ (Gold)
4	#CLR300-GR-AS	.300 M/F Terminal Chaser™ (Green)
5	#CLR400-GR-AS	.400 M/F Spade Terminal Chaser™ (Green)
6	#CLR160-RED-AS	.160F/.156M Terminal Chaser™ (Red)
7	#CLR180-BLUE-AS	.180 M/F Terminal Chaser™ (Blue)

FLAT-PIN TERMINAL CHASER™ SET (#8040)

This three-piece, pro-series set features three different size tips specifically designed and custom engineered to fit and clean most male/female flat pin type connectors. Each are highly durable with a mild abrasive coating and pivoting handle design for added versatility.

RETURN FOR REPAIR POLICY

Every effort has been made to provide reliable and superior quality products. However, in the event your product requires repair, please contact Innovative Products of America®.

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