

# Body Pro™

## OPERATION MANUAL



Manufactured in California, USA\*

# CONGRATULATIONS

Thank you for purchasing the Body Pro™, the tool technicians use to work smarter every day. We have manufactured a very rugged tool that works as hard as you do.

I appreciate how challenging your job can be: I promise your Body Pro™ will make your job easier by drastically reducing time and help you to make more money.

The versatile Body Pro™ is not just for wind and water leak testing. This tool will find more repairs and help you to sell the repair jobs to your customers. Don't tell your customers about leaks, show them!

If you test every vehicle that comes through your service center with the Body Pro™, it will pay for itself in less than 30 days. More importantly, your customer satisfaction will dramatically increase.

Thank you. I appreciate you.

Zachary Parker  
President  
Redline Detection, LLC

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# SPECIFICATIONS

L x W x H	5 in. x 5 in. x 9 in. (12.7 cm x 12.7 cm x 22.9 cm)
Weight	6 lbs. (2.7 kg)
Shipping Weight	10 lbs. (4.5 kg)
Power Supply	12 Volts DC
Power Consumption	7 amps
Output Pressure	0.5 PSI / 13.0 in. H <sub>2</sub> O / 0.032 BAR
Operating Temperature	0°F to 140°F (-17°C to 60°C)
Operating Humidity	No Restrictions
Operating Altitude	No Restrictions
Vapor Output Hose	10 ft. (3.1 m)
Power Supply Cables	10 ft. (3.1 m)
Operating Modes	Vapor Cycle / Air Only Cycle
Pressure Supply	Compressed Air
Housing Material	Steel
Vapor Chamber Material	Billet Aluminum
Vapor Chamber Assembly	Bolted
Vapor Chamber Warranty	Lifetime

# APPLICATION GUIDE

## LEAKS



EVAP	●	●	●	○	●
VACUUM	●	●	●	○	●
OIL	●	●	●	○	●
EXHAUST	●	●	●	●	●
INTAKE	●	●	●	●	●
WIND & WATER	●	●	●	●	●
MANIFOLDS	●	●	●	●	●
TURBOCHARGERS	○	○	○	○	○
SENSORS	●	●	●	●	●
SEALS & HOSES	●	●	●	●	●

## KEY

● EXCELLENT  
Designed for  
this purpose

○ SUITABLE  
But not specifically  
designed for this purpose

○ NOT APPLICABLE  
Does not apply for  
this purpose

# SAFETY


The procedures in this operation manual are intended to be basic guidelines for users to practice using this diagnostic leak detector

This operation manual is not intended to be used in place of common sense:

- Use this equipment in the manner specified by the manufacturer
- Understand operating procedures
- Follow all safety precautions

## SAFETY PRECAUTIONS

- All diagnostic work should be performed with the engine off
- Do not leave a vehicle unattended while equipment is connected or operating
- Equipment operates on a 12 Volt battery  
Connect machine to battery (+) and chassis ground (-)
- Do not perform tests near a source of spark or ignition
- When working with the fuel system, work in a well-ventilated area
- Always wear the appropriate safety protection  
Wear OSHA standard eye wear and protective gloves when using this equipment

 Always use a supplemental hood support or prop rod whenever hanging unit under a hood

# MAINTENANCE

## **CHECK FLUID LEVEL** See Set Up (pg. 6)

Remove fill plug from fluid fill port with hex key

Pour OEM-Approved Vapor Producing Fluid into fluid fill port until fluid level is near top of the fluid fill port

Replace fluid fill plug

Check fluid level every 50 - 100 tests

## **DRAIN VAPOR HOSE**

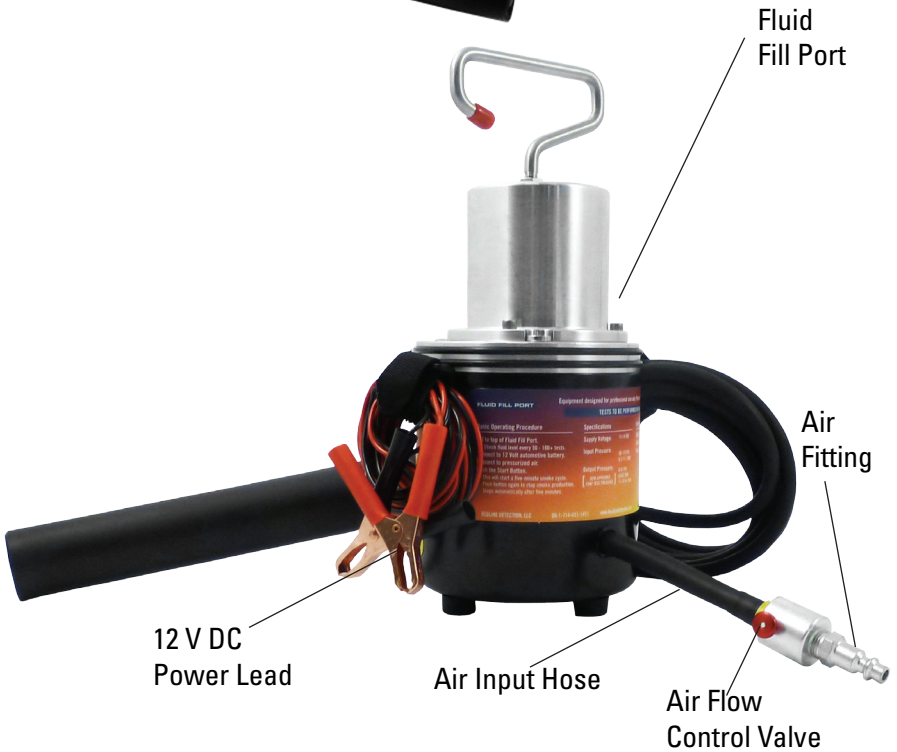
Elevate the machine

Allow the entire vapor hose to hang downward

Place a container beneath the nozzle to capture fluid

Process takes approximately 5-minutes

# COMPONENTS



## ACCESSORIES INCLUDED

### Handle [PN 15-0046/A]

To hang Diagnostic Leak Detector under hood or chassis

### OEM-Approved Vapor Producing Fluid [PN 96-0039]

Vapor Producing Fluid will perform over 500+ typical tests per bottle  
IMPORTANT: Contains NO Dye / Contaminants

### EVAP Service Tool Kit [PN 96-0003]

Schrader Valve Removal Tool  
EVAP Service Port Adaptor

### Hose Tip Adaptor [PN 15-0006/A]

### Hex Key [PN 80-0009]

To remove / replace fluid fill plug



## ADDITIONAL ACCESSORIES

### Halogen Inspection Light [PN 96-0011]

Bright white beam finds even the tiniest wisps of vapor under the hood or chassis



### Cap Plug Kit [PN 96-0007]

Seals a variety of openings in order to pressurize system for testing



### Standard Cone Adaptor [PN 96-0004]

For use to seal openings from 1 in. (2.5 cm) to 3.4 in. (8.6 cm) to introduce vapor into exhaust and induction systems



### Accessory Storage Case [PN 91-0011]



# ADDITIONAL ACCESSORIES

## Easy EVAP™ [PN 95-0030]

This universal Fuel Filler Neck Connector system fits 100% of vehicles to simplify EVAP testing

### Universal Filler Neck Connector [PN 95-0011]

Made in USA of billet aluminum

### Sealing Disks [PN 96-0017-12]

Creates an air-tight seal with any filler neck

### CapAdapt™ Capless Adaptor [PN 96-0054]

Opens throat of capless filler necks



## Easy INTAKE™ [PN 95-0082]

Award-winning Easy INTAKE™ is an inflatable block off bladder with a pressurized vapor pass-through that allows technicians to test an entire intake or exhaust system quickly and easily



## Extended Accessory Kit [PN 95-0005]

Standard Cone Adaptor for dual exhaust  
Vapor Output Hose extension allows operator to test 20 ft. (6.1 m) from unit  
Additional OEM-Approved Vapor Producing Fluid for 500+ typical tests



## XL Cone Adaptor [PN 16-0003]

For use to seal openings from 3.4 in. (8.6 cm) to 5.25 in. (13.3 cm) to introduce vapor into exhaust and induction systems

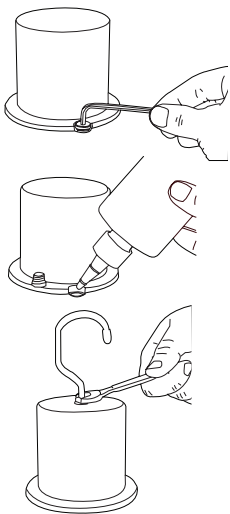


## Replacement Bulb [PN 20-0002]

MR-16 bulb, replacement for Halogen Inspection Light



## SET UP



### 1. FILL / ADD VAPOR PRODUCING FLUID

Remove Fluid Fill Plug with hex key

Pour OEM-Approved Vapor Producing Fluid into fluid fill port until fluid level is near top of the fill port replace fluid fill plug



Do not overfill

Only takes 2 fl. oz. (60 ml) to refill when empty



Never use dyes, solvents or other contaminants in intake or exhaust systems because they may coat and/or harm critical sensors, catalysts or filters

### 2. INSTALL HOOK

Use a wrench to tighten jam nut

## HOOK UP CONNECTIONS

### 3. CONNECT TO POWER

This machine runs on a fully-charged 12-Volt battery

Connect red lead (+) to battery's positive terminal

Connect black lead (-) to chassis ground



Do not connect to battery charger or jumper box

#### POWER INDICATOR:

- Green Light: Machine has adequate power
- No Light: No Power, See Troubleshooting (pg. 11)

### 4. CONNECT TO AIR SUPPLY

Connect Air Input Hose to a compressed air supply

If necessary, replace Air Fitting to match your air supply

## TESTING FOR LEAKS

### 5. PUSH ON / OFF BUTTON

Begins 5-minute vapor cycle

#### VAPOR INDICATOR:

- Red Light: Vapor is Generating
- ◻ Flashing Red Light: Open Circuit, See Troubleshooting (pg. 11)
- No Red Light: No Vapor Generating

\* Open Air Flow Control Valve to start air flow



## DIAGNOSE WIND AND WATER LEAKS

Wind and water leaks are quick and easy to find with the Body Pro™

1. Best results perform tests in a draft free environment
2. Key on Engine Off
3. Select dashboard fan circulation at highest speed setting- "Fresh Air" in setting- not "Recirculate"
4. Close doors and windows tight
5. Use Body Pro™ smoke wand from the outside of the vehicle allowing vapor to carry along door / windows / body seams
6. Where vapor is deflected from cabin air being forced out, leak(s) exist
7. Repair as necessary
8. Retest for quality of repair

## DIAGNOSE HEADLIGHT / TAIL LIGHT ASSEMBLY

1. Remove bulb and force vapor into light assembly at bulb socket opening
2. Where vapor appears, leak(s) exist
3. Use clear silicone to repair
4. Retest for quality of repair

## DIAGNOSE EXHAUST LEAKS

This test is most effective when exhaust system is cold  
Thermal expansion may cause small leaks to seal

1. Introduce vapor via tailpipe  
**Plug tailpipe openings with towel or optional accessories** (see pg. 6 and 7)
2. Put Vapor Output Hose into Cone Adaptor to introduce vapor into the system

**A hot catalytic converter may consume some of the vapor**



All testing is performed with the engine off

## DIAGNOSE INTAKE SYSTEM LEAKS

This procedure will locate leaks in vacuum lines as well as manifolds, EGR valves, oil seals, gaskets, solenoids, o-rings, ducting, throttle shafts, diaphragms, canisters, and more

For best results, test in a draft-free area

1. Select an appropriate vacuum line to access the vacuum system (i.e. a brake booster supply line before the check valve)
2. Seal all system openings
  - a. Air Intake must be sealed to prevent vapor from leaking back through the intake
  - b. To seal the intake, a latex glove, or plastic wrap around the filter\*
3. Put Vapor Output Hose to introduce vapor into the system

\*Optional accessories available for quicker testing (see pg. 6 and 7)

## DIAGNOSE EVAP LEAKS

Leaks in the EVAP system, or fuel vapor recovery system, are frequently the cause for check engine lights. Using a diagnostic leak detector, these leaks can now be quickly diagnosed and repaired, making them profitable services for repair facilities

1. To access the EVAP service port, remove the green cap  
Remove Schrader valve using the provided Schrader Valve Removal Tool (Schrader valve has left-handed threads, turn clockwise to remove)
2. Connect the provided EVAP Service Port Adaptor to the service port
3. Using a scan tool, close the vent solenoid to close EVAP system from atmosphere (If vent solenoid does not close, intermittent solenoid may have failed)
4. Remove the fuel cap
5. Input vapor into the system through adaptor
6. Replace fuel cap when dense vapor is seen exiting the filler neck
7. Continue pumping vapor into the system
8. Inspect under the hood and trace the route of the EVAP system on the underside of the vehicle for leaks
9. Repair the system as needed

\*Optional accessories available for quicker testing (see pg. 6 and 7)

# TROUBLESHOOTING

PROBLEM	SOLUTION
No Green Light	Check polarity Ensure 12-Volt battery is fully-charged Reconnect power cables
Red Light Flashing	Ensure 12-Volt battery is fully-charged Open circuit / internal component Contact Redline Detection Technical Support
No Air Flow	Check connection to compressed air Open the flow control valve Check hoses are not kinked or pushed into machine
Not Enough Vapor	Check Fluid Level Open the flow control valve Check hoses are not kinked or pushed into machine

# WARRANTY

The manufacturer, Redline Detection, LLC. ("Redline") warrants this product to be free from defects in workmanship and material under normal use and service for a period of one-year from the date of purchase. Redline's liability under this warranty is limited to: (1) repair or replacement of any parts or product which are determined to be defective; or at Redline's sole option (2) refund of the purchase price. In either event, product to be returned shipping prepaid within the one year warranty period. Additionally, the vapor chamber in any Redline product has a lifetime warranty as to its structural integrity: Any Redline-manufactured vapor chamber that leaks, cracks, or separates in any way shall be repaired / replaced by Redline at no charge. Products are only to be used by persons having skill and knowledge in the automotive repair field, and improper use or maintenance may cause serious injury. In no event shall Redline be liable beyond replacement of product or refund of the purchase price. This warranty shall void if a product is improperly maintained, altered, abused or otherwise misused in any way. THE AFORESAID WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, AND THERE ARE NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER MADE BY REDLINE, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR APPLICATION. THE PURCHASER'S SOLE REMEDY FOR ANY DEFECTIVE PRODUCT SHALL BE REPAIR, REPLACEMENT OR REFUND AS STATED ABOVE AND REDLINE SHALL NOT BE LIABLE TO ANYONE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT OR PUNITIVE DAMAGES ON ACCOUNT OF DEFECTIVE PRODUCTS, HOWEVER CAUSED, UNDER ANY THEORY OF LIABILITY.



## REDLINE TECHNICAL SUPPORT



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Monday - Friday: 7:00 to 17:00 PACIFIC TIME

Manufactured By  
Redline Detection, LLC

Made in the USA  
\*with globally sourced components



PATENTED

RoHS  
Compliant

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