

Module Part # 44005



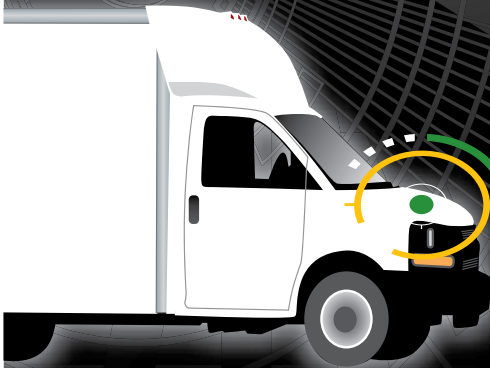
# DEFENDER<sup>TM</sup> PLUS<sup>MC</sup>

**Electronic Rust  
Protection**



**Installation & Warranty  
Booklet**

**Heavy Duty Version**



**GREEN PULSE**  
TECHNOLOGY

 **Environmentally  
Friendly**

# DEFENDER PLUS CORROSION MODULE - Information Booklet

## CONTENTS:

### Defender Plus Kit Includes:

- |  |                                  |
|--|----------------------------------|
| 1 - Defender Plus Electronic Module unit             | 1 - Self tapping screw #8 x 1/2" |
| 1 - Wiring harness with in-line fuse and fuse holder | 1 - Star washer #8 (tooth lock)  |
| 3 - 3/8" ring terminals                              | 1 - Alcohol cleaning pad         |
| 1 - 1/4" ring terminal                               | 6 - Tie straps - 4"              |
|  | 1 - Window decal                 |
|  | 1 - 1/2" ring terminal           |

## PRE-INSTALLATION INSTRUCTIONS:

### When installing the Defender Plus Rust Module, mount the unit in a location that is:

- normally dry and not prone to moisture
- away from exposed areas that are subject to road debris
- away from moving parts
- away from heat or heated components
- an area where the LED power indicator light on the module is visible
- in an area that does not interfere with normal vehicle repair or maintenance

## TOOLS REQUIRED:

### When installing the Defender Plus Rust Module, you will need:

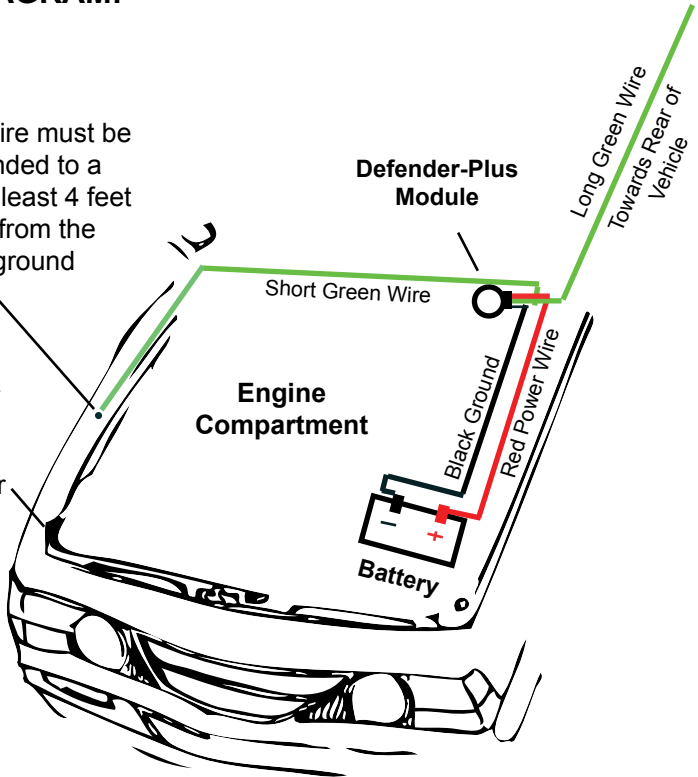
- a wire stripper and crimper
- an adjustable wrench
- a power drill



## WIRING DIAGRAM:

Short green wire must be properly grounded to a body panel at least 4 feet or 1.3 meters from the black battery ground wire hook up.

Use the tooth-washer (supplied) to make a proper ground connection to metal.



**WARNING! DO NOT INSTALL THE DEFENDER PLUS SYSTEM WITH YOUR VEHICLE ENGINE TURNED ON! SERIOUS INJURY MAY OCCUR FROM ELECTRICAL SHOCK! KEEP THE ENGINE OFF UNTIL INSTALLATION IS COMPLETE!**

## INSTALLATION INSTRUCTIONS:

1. With the vehicle's engine in the off position, open the hood of the vehicle and choose a location where the Defender Module will be mounted. The firewall or strut tower is a good spot to install your module where it will be clearly visible and easy to access. Be sure to choose a location away from the exhaust manifold or any other hot or moving parts.

## INSTALLATION INSTRUCTIONS (Con't):

2. Once you have determined the mounting location, use the supplied alcohol pad to clean the surface thoroughly.
3. Remove the backing from the velcro pad and secure it to the mounting surface. Place your Defender module over the velcro pad and press it securely in place.
4. Place your harness plug close to the module and begin routing your wires. Route the black and red power wires along the sides of your engine compartment to your battery or power source. Be sure to avoid positioning wires too close to hot or moving parts that may melt or pinch the wires.
5. Once you have routed the wires carefully, you can cut the red and black wires to the required length. NEVER REMOVE THE IN-LINE FUSE CONNECTED TO THE RED WIRE. Attach the supplied ring terminals securely to the end of each wire with a crimper.
6. Remove the nut on the negative battery terminal and insert the ring terminal of the black ground wire first. Replace the nut and tighten it down securely. Note: An alternative ground may also be used when the battery is located in other areas of the vehicle. Your installation kit includes a stainless steel self-tapping screw as an option and should be carefully fastened to bare metal for proper grounding.
7. Follow the same procedure for the red power wire. Remove the nut on the positive battery terminal and insert the ring terminal of the red power wire. Replace the nut and tighten it down securely.
8. THE GREEN OUTPUT WIRES MUST BE SECURED TO BARE METAL ON A GROUNDED BODY PANEL AND MUST BE FASTENED AT LEAST 4 FEET FROM WHERE THE BLACK WIRE WAS CONNECTED.

Route the short green wire along the side of your engine compartment and avoid contact with hot or moving parts. Find a convenient location on the inner fender lip to connect the green output wire using the self tapping screw and tooth washer supplied with your kit. Start by using a hole punch and hammer to create a starting point for the screw. Fasten the 1/4" ring terminal to the green wire with your crimper.

## INSTALLATION INSTRUCTIONS: (Cont'd)

Use a drill with a phillips head screwdriver bit and the self tapping screw to fasten the terminal to the metal surface. Be sure to use the tooth washer supplied with your kit. Make sure that when you tighten the screw, the teeth on the washer penetrate through the paint and make clean contact with the metal surface.

9. When choosing a grounding location, please note that existing bolts on the firewall or inner fender lip may not be grounded properly or they could have a coating from the factory. Therefore, never install the ring terminal over a painted surface without using a tooth washer.

If you choose to use an existing bolt, you can obtain the appropriate size tooth washer from your local hardware store. Make sure that when you tighten the bolt, the teeth on the washer penetrate through the paint and make clean contact with the metal surface. Good contact with bare metal is important to insure that the Defender module will function properly.

10. The longer green lead should be connected as far back as possible towards the rear of the vehicle to a grounded body panel. Fasten the ring terminal to the green wire and secure it to the body panel in the same way.

11. For pick up trucks, be sure that the box or load area is part of the vehicle's grounding system. If not, attach a ground strap from the underside of the box to the vehicle's grounding system.

12. Plug the harness firmly into the Module connector plug. The green LED light on the Defender module should now be on. If the LED is not lit, then check to see that the power wires were properly installed and that the black wire was properly grounded. If so, then start the vehicle and check the LED again. The light should now be on. If not, then see your selling Dealer.

**Note:** The Defender module is equipped with a circuit to protect the vehicle's battery and charging system. If your battery voltage drops below 9 volts, the LED will switch itself to blinking mode to conserve battery power but will still continue to operate.

13. Once installed, secure the wiring in place with the tie straps supplied in your kit. We also recommend using split loom (not included) to hide the wires and protect them from heat and moisture. This is available from most automotive parts retailers.

## Three Year Product Replacement Limited Warranty:

The TPI Defender Plus Electronic Anti-Rust Module is warranted against defects in manufacturing and workmanship for 3 years from the date of purchase. This warranty excludes failure due to improper installation, abrasion or abuse. Replacement is limited to the Defender Plus Module Unit only.

## Optional No Charge Rust Perforation Limited Warranty and Extended Product Replacement Limited Warranty: Registration Requirements:

To receive this optional no charge warranty you must install the Defender Plus Module and register your vehicle on-line at [www.defender-plus.com](http://www.defender-plus.com) within 90 days of purchase. An acknowledgement will be e-mailed back to you with your own personal warranty number. These optional warranty coverages will be valid only if your vehicle is registered.

## HEAVY DUTY DEFENDER ELECTRONIC CORROSION MODULE RUST PERFORATION LIMITED WARRANTY TERMS AND CONDITIONS

**Warranty Duration for Heavy Duty Vehicles One Model Year Old or Newer:** The warranty period is for Seven (7) years from the product installation date.

**Warranty Duration for Heavy Duty Vehicles Two to Five Model Years Old:** The warranty period is 5 years for two model year old vehicles, 4 years for three model year old vehicles, 3 years for four model year old vehicles and 2 years for five model year old vehicles from the product installation date.

**HEAVY DUTY Vehicle Age:** Vehicle Model Year changes with the calendar year.

**Aggregate Dollar Limits On Claims Per Heavy Duty Vehicle:** Vehicles one model year old and newer have an aggregate limit of \$3,000 per vehicle for all combined claims submitted during the term of this coverage. Vehicles two to five model years old have an aggregate limit of \$2,000 per vehicle for all combined claims submitted during the term of this coverage.

## **HEAVY DUTY DEFENDER ELECTRONIC CORROSION MODULE RUST PERFORATION LIMITED WARRANTY:**

TPI Inc. warrants the effectiveness of the HEAVY DUTY DEFENDER ELECTRONIC CORROSION MODULE against rust perforation (hole) on the doors, quarter panels, rocker panels, engine hood lid, trunk lid, cargo areas, roof, frame, floor boards and cross members. These areas are covered only when the HEAVY DUTY DEFENDER ELECTRONIC CORROSION MODULE is installed correctly. If corrosion perforation (hole) occurs, then the damaged area will be repaired or replaced as determined by the Warranty Centre.

## **HEAVY DUTY DEFENDER ELECTRONIC CORROSION MODULE LIMITED WARRANTIES DO NOT COVER THE FOLLOWING:**

01. Areas not listed.
02. Owner's indifference, negligence or carelessness in reporting any damage that would be covered within 30 days of noticing said damage.
03. Any damage that would be covered under the vehicle manufacturer's new car or truck warranty while under such coverage from the manufacturer.
04. Damages that would be covered under the owner's home or auto insurance policy.
05. Loss of time, inconvenience or loss of use of vehicle or other incidental or consequential damages.
06. Surface rust.
07. Any damage that was visible or should have been visible to the dealer and warranty holder at the time this warranty commenced.

The Rust Perforation Warranty also includes a Product Replacement Warranty on the electronic anti-rust module against manufacturer's defects for as long as the Rust Perforation Limited Warranty is still valid.

This Limited Warranty is the only express warranty applicable to corrosion perforation on this vehicle. Any implied warranty of merchantability or fitness applicable to corrosion perforation on this vehicle is limited in duration to the duration of this express TPI Limited Warranty. TPI Inc. will not be responsible for incidental or consequential damages. Some provinces may not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some provinces may not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives the owner specific legal rights and the owner may also have other rights that vary from province to province. This limited warranty is not to be construed as insurance. It offers limited reimbursement for corrosion perforation damage.

Royal & Sun Alliance Insurance Company of Canada (head office address: 10 Wellington St. E, Toronto, Ontario, M5E 1L5), has issued a Master Policy to TPI Inc., which indemnifies TPI Inc. with regards to the above Defender Products. The Master Policy issued by Royal & Sun Alliance Insurance Company of Canada has certain conditions, exclusions and limitations that apply to all coverages. PROTECTING YOUR PRIVACY: For Privacy information, please see [www.royalsunalliance.ca](http://www.royalsunalliance.ca), or call us at 1-800-716-4339.

## **CLAIMS PROCEDURE:**

### **Rust Perforation Limited Warranty:**

1. Within 30 days of noticing any rust perforation damages that would be covered under your Defender Plus warranty, two written estimates and pictures of the rust perforation damage area are required.
2. Claims may be mailed to the TPI Claims Department, 9251 Yonge Street, Suite 8973, Richmond Hill, Ontario L4C 9T3 or filed online at [www.defender-plus.com](http://www.defender-plus.com). The TPI Claims Department will give you written authorization to have the repair made only when the claim is approved. TPI reserves the right to inspect any damage being claimed. Any repairs made on claims prior to receiving written authorization will be denied.

### **Product Replacement Warranty:**

1. If the LED light (green) is off then return the Defender Plus Electronic Anti-Rust Module (unit only) to TPI Claims Department, 9251 Yonge Street, Suite 8973, Richmond Hill, Ontario L4C 9T3, freight prepaid.
2. If the module is determined to be defective due to a manufacturer's defect, then a replacement module will be sent back at no charge, freight prepaid.

**PRIVACY NOTICE:** TPI is committed to protecting your privacy and the confidentiality of your personal information. By registering for the Rust Perforation Limited Warranty coverage, you are consenting to the collection, use and disclosure of your personal information by TPI for the purposes of your Defender Plus warranty coverage, underwriting, claims, administration, marketing of other products and the investigation of claims. In the ordinary course of TPI's business, personal information may be disclosed for the purposes described, to reinsurers, legal advisors, regulatory bodies and any third party deemed necessary by TPI. If you have a concern about your privacy, or you would like further information about TPI's Privacy Policy please call our Privacy Officer at 1-800-952-8421.

[www.defender-plus.com](http://www.defender-plus.com)  
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