

Module Part # 44005



**Electromagnetic  
Rust Protection**



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Form #: DEF-4891



**CONTENTS:**

**Defender Plus Kit Includes:**

- 1 - Defender Plus Electronic Module unit
- 1 - Wiring harness with in-line fuse and fuse holder
- 3 - 3/8" ring terminals
- 1 - 1/4" ring terminal

- 1 - Self tapping screw #8 x 1/2"
- 1 - Star washer #8 (tooth lock)
- 1 - Alcohol cleaning pad
- 6 - Tie straps - 4"
- 1 - Window decal
- 1 - 1/2" ring terminal

**TOOLS REQUIRED:**

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

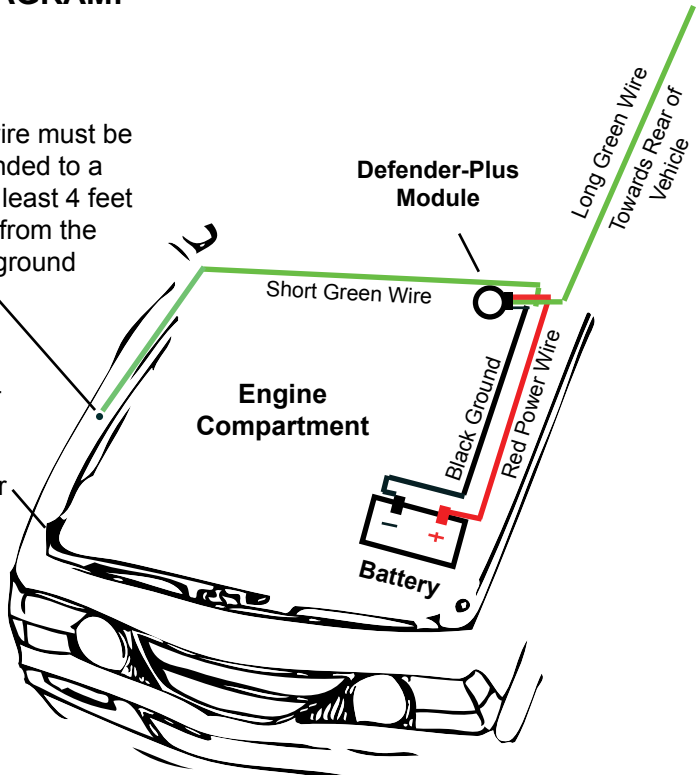
- a) a wire stripper and crimper
- b) an adjustable wrench
- c) phillips head screwdriver



**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.



## **PRE-INSTALLATION INSTRUCTIONS:**

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

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

**WARNING! DO NOT INSTALL THE DEFENDER PLUS SYSTEM WITH YOUR CAR ENGINE TURNED ON! KEEP THE ENGINE OFF UNTIL INSTALLATION IS COMPLETE!**

## **INSTALLATION INSTRUCTIONS:**

1. With the car'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.
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. Attach the supplied ring terminals securely to the end of each wire with a crimper.

## INSTALLATION INSTRUCTIONS (Con't):

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 wire that delivers the pulse signal to the grounded sheet metal 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.



Never shorten the green output wire to under 60" in length. Route the green wire along the side of your engine compartment and avoid contact with hot or moving parts.

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 the tooth washer supplied with your installation kit.

## INSTALLATION INSTRUCTIONS: (Cont'd)



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. If you are unsure that the existing bolts are properly grounded, or you are having trouble locating a convenient spot, you can use the self tapping screw supplied with your kit.

Always use the tooth washer and make sure the teeth penetrate through the paint when tightening the screw. Good contact with bare metal is imperative 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.

**Defender Plus Product Replacement Limited Warranty:**

The 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.

1. The LED light (green) is always lit when the engine is running. If not, then return the Defender Plus Electronic Anti-Rust Module along with the original receipt showing proof of purchase 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 manufacturers defect, then a replacement module will be sent back at no charge, freight prepaid.

**Application For Corrosion Perforation Warranty:**

To see if your vehicle qualifies for a Defender Plus Corrosion Perforation Warranty you must, within 30 days of purchase, fill out a warranty application on-line at [www.defender-plus.com](http://www.defender-plus.com).

A Full Installation Video Can Be Seen At:

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

