

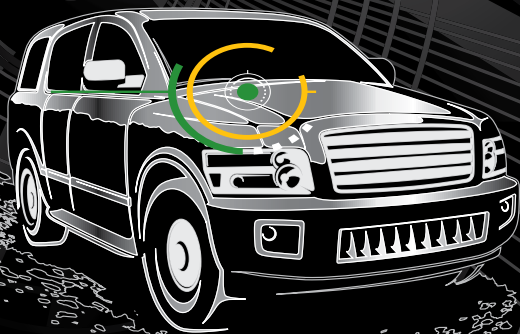
Module Part # 44001



**Electronic Rust
Protection**



**Installation & Warranty
Booklet**



**Environmentally
Friendly**

**GREEN PULSE
TECHNOLOGY**

www.defender-plus.com

DEFENDER PLUS CORROSION MODULE - Information Booklet

Defender Plus 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 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.

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:

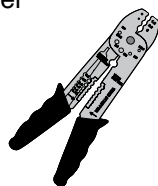
When installing the Defender Plus Rust Module, mount the unit in a location that is:

- 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:

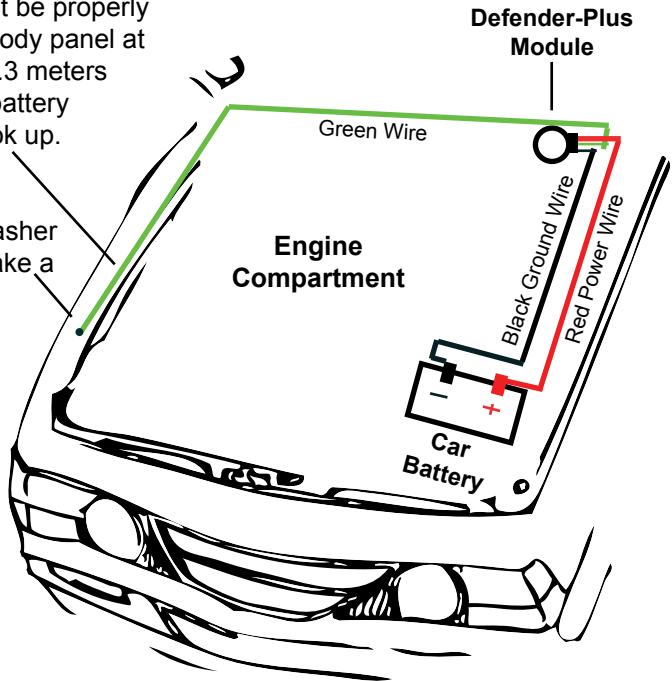
- a wire stripper and crimper
- an adjustable wrench
- a power drill



WIRING DIAGRAM:

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 toothwasher (supplied) to make a proper ground connection to metal.



WARNING! DO NOT INSTALL THE DEFENDER PLUS SYSTEM WITH YOUR CAR ENGINE TURNED ON! SERIOUS INJURY MAY OCCUR FROM ELECTRICAL SHOCK! 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.

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 the 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 WIRE 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 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. 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.

11. 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 the module will still continue to operate.

12. 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.

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TERMS AND CONDITIONS

Rust Perforation Limited Warranty:

Warranty Duration for Vehicles Up To Nine Model Years Old:

To the original purchaser of the Defender Plus Anti-Rust Module the warranty period is 10 years for current model year vehicles, 9 years for one model year old vehicles, 8 years for two model year old vehicles, 7 years for three model year old vehicles, 6 years for four model year old vehicles, 5 years for five model year old vehicles, 4 years for six model year old vehicles and 3 years for seven model year old vehicles, 2 years for eight model year old vehicles and 1 year for nine model year old vehicles from the date of product installation.

To the original purchaser and only upon the receipt of the registration form and with the installation of the Defender Plus Electronic Anti-Rust Module, TPI will warrant that the body sheet metal, structural members and the frame of the motor vehicle will not perforate (hole), even if the corrosion was originally caused by stone chips, chipped paint or scratches on the grounded surface areas of the doors, quarter panels, rocker panels, wheel wells, hood lid, trunk lid, roof and floor boards, provided that all the Terms & Conditions are adhered to.