

CATIII-8HD (8 Pad Heavy Duty System)



Package Contents:

Heavy Duty 2 Pad System (x1)

Comprising:-

CATIII Control Module (x1)
Fused Wiring Harness (x1)
Coupler Pads (x2)
Black Cable Ties
Alcohol Wipes
Spare Fuse and Accessories
Warranty and Fitting Instructions

2 Pad Expansion Pack (x3)

Each Comprising:-

Coupler Pads (x2)
Pad Wiring Splitters (x2)
2m Blue Extension Leads (x2)
Black Cable Ties
Alcohol Wipes
Fitting Instructions

INTRODUCTION:

The CAT Electronic Anti-Corrosion System is designed to aid in the suppression of rust in motor vehicles, trucks, buses, air conditioners and many other types of plant, machinery or structures.

The CAT System will operate from either a 12VDC and 24VDC battery or power source and the unit will automatically detect the input voltage and adjust its function and diagnostic accordingly.

The system consists of a Main Control (Generator) Module and 2 or more coupler pads which are interconnected via fused wiring harness.

The Main Generator Module has 2 output circuits (blue wires). Each output circuit is capable of supplying up to 6 coupler pads linked in series (or a total of 12 Coupler Pads for both circuits). Additional coupler pads can be added at any time to boost the operation of the system.

Coupler pads are wired like a daisy chain starting at the main module using the main harness, extension cables and pad wiring splitters supplied. Although not critical, it is best practice to have the same number of coupler pads on each output circuit.

We highly recommended that you familiarise yourself with the size and shape of each component and pay particular attention to the length of the wiring supplied.

Please read these instructions carefully prior to commencing installation.

Please feel free to contact us if you need any assistance.

STEP 1: PRE-PLANNING:

1. Remove all components from the package and extend all wiring.
2. Locate suitable mounting sites for:-
 - i. The Main Control Module - Ideally close to the vehicle battery or power source, away from excessive heat sources and where the status indicator light can be seen. The module is completely sealed and can be mounted externally if required.
 - ii. Coupler Pads - Select a convenient and predominantly flat painted metal surface – DO NOT scuff-up or remove paint. The pads should be spaced evenly around the vehicle or structure. Site selection will vary but as a general rule the areas of most corrosion concern should be selected.
3. When locations for each component have been identified we recommend the following procedure to ensure that all wiring will interconnect safely and efficiently with each component.
 - a. Plugging together the main multi-pin connector between the wiring harness and Control Module.
 - b. Loosely place the Control Module into position.
 - c. Separate the Black (-ve) and Red (+ve) power wires and ensure they can be routed all the way to the vehicle battery.
 - d. Likewise separate the 2 blue Coupler Pad wires in the main harness and identify a suitable route to the first 2 pads utilising the 2m blue extension leads where required. (Cutting and splicing additional cable to further extend or customise the installation is permissible as long as a similar gauge multi-strand cable is used and all joints are secure and well sealed.)
 - e. We also recommend enclosing all wiring in plastic split tubing or conduit for additional protection and aesthetics.
 - f. Interconnect the remaining pads on each circuit using the “Pad Wiring Splitters” and “2m extension leads” supplied.
 - g. Be sure to check that all wiring is clear of any moving parts and high temperature fittings.

NOW YOU'RE READY MOUNT EACH OF THE COMPONENTS

STEP 2: FINAL MOUNTING AND CONNECTION

1. Mounting and Connecting the Main Control Module.
 - a. Clean the mounting area using prepsol, thinners or one of the alcohol wipes provided.
 - b. Attach the velcro strip provided to the rear of the Control Module.
 - c. Remove the self adhesive backing then press the Control Module squarely and firmly onto the cleaned surface. (The velcro strip enables removal of the module if required later).
 - d. Optional - Secure with an appropriate fastener.
 - e. If you have not already done so, plug together the main multi-pin connector which connects the wiring harness to the Main Control Module.
2. Mounting and Connecting the Coupler Pads (follow this procedure for each Pad)
 - a. Clean the mounting area using prepsol, thinners or one of the alcohol wipes provided.
 - b. Remove the backing from the coupler pad adhesive and roll the pad into position from one edge so as to avoid any air bubbles. Press and rub firmly to ensure complete adhesion and to remove any trapped air.
 - c. For extra security a bead of black automotive Sikaflex can be hand applied around the edge of each pad.
 - d. Plug-in each pad to its associated Pad Wiring Splitter and/or blue extension leads as required.
3. Connecting to a Vehicle Battery (or 12VDC power source – also see important note below)..
 - a. Connect the black lead from the wiring harness to the (-) negative terminal.
 - b. Connect the red lead from the wiring harness to the (+) positive terminal.
 - c. The Green LED on the Control Module will shine solid when first connected then flash or show solid green indicating normal operation.

(Important Note: If using a 240VAC to 12VDC converter the negative terminal from the converter must also be grounded to the metal frame being protected.)

4. Ensure all connections are secure and fix all loose wiring using cable ties provided.

To assist in resolving a fault condition with your CATIII installation please follow the “Trouble Shooting Guide” below.

Firstly determine the status of the LED light on the CATIII Control Module – A Green light (*Flashing or Solid*) is normal and indicates “No Fault”

NO light indicates either there is no power getting to the CATIII Control Module or the module is possibly faulty.

- 1) Check the condition of the battery or power source using a voltage meter.
- 2) Check battery connections. (*Red and Black Wires*).
- 3) Check In-line Fuse (*on Red Wire to CAT Module.*)
- 4) Check vehicle isolator switch is on (*if fitted*).
- 5) Check complete power wiring harness to CAT Module. (*Red & Black Wires*).
- 6) Check main multi-pin connector is inserted fully.

YELLOW light (*Solid or Flashing*) indicates the DC voltage supply to the CAT System is outside its normal operating range of 12.0V to 15.1V for 12V systems or 23.9V to 28.1V for 24V systems.

- 1) Measure the Battery voltage or output from Power Source using a meter to determine actual voltage.

RED Light (*Solid or Flashing*) indicates a possible fault condition with either the CATIII Control Module, Sensor Pads or Pad wiring (*Blue Wires*).

- 1) Firstly check the condition of the battery or Power Source using a voltage meter.
- 2) Check that each blue wire which connects the Sensor Pads to the unit have not been damaged or broken and each Sensor Pad is securely attached – check for any lifting around the edges or any evidence of bubbles under the pads. (this will need to be significant to be a problem)
- 3) Reset the CAT System - To do this, momentarily disconnect the power to the CAT Control Module by either removing the in-line fuse or unplugging the CAT module for a few seconds.
- 4) After Restoring the power:-
 - a) If the LED indicator is Red (*Solid or Flashing*) either immediately or soon after it indicates a fault with the Control Module. Please contact us.
 - b) If the LED indicator is Green (*Solid or Flashing*) then it is recommended the system be re-calibrated using the steps below...
- 5) To Re-Calibrate the CAT System
 - a) Disconnect the power to the CAT Control Module by either removing the in-line fuse or unplugging the CAT Control Module - leave it unplugged!
 - b) Isolate ALL sensor pads by unplugging them at the black connector closest to each pad.
 - c) Restore power to the Control Module - The LED indicator should be Green (*Solid or Flashing*)
 - d) Reconnect ALL sensor pads. The LED indicator should remain Green (*Solid or Flashing*)
 - e) If the LED indicator is Red (*Solid or Flashing*) at anytime thereafter please contact us.

If the suspected fault does not clear then please re-check all items above before contacting us....



10 YEAR PRODUCT WARRANTY

Terms and Conditions

This CAT product is guaranteed for 10 years from date of purchase against faults in manufacture or materials used, provided that it has been fitted in accordance with the standard installation instructions and the serial number has not been defaced.

This warranty does not apply to any defect, deterioration, loss, injury or damage caused by or as a result of the misuse or abuse of this product. Our obligation in the event of a valid claim is limited to repair or, at our discretion, replacement of the product. All claims under this warranty should be made by contacting the supplier: CAT Systems Australia.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Owners Record

Date of Purchase: Purchased From:.....

Invoice Number: Serial Number:

Please register your warranty online - www.catsystemsaustralia.com.au/register

Failure to register your product warranty will not affect your rights under any Consumer Protection Warranty, however registration may help us deal with any warranty claim more efficiently - Thank you for choosing CAT

LED Status Light Functions:

LED Status	What Does This Mean...?	What Should I Do..?
Green Light (Flashing)	Normal Operation	Nothing
Green Light (Solid)	Normal Operation – Voltage Very Good	Nothing
Yellow Light (Flashing)	Supply Voltage Low / High	Follow Troubleshooting Guide
Red Light (Flashing Or Solid)	Fault Condition Detected	Follow Troubleshooting Guide
No Light	No Power To System	Follow Troubleshooting Guide

OPERATING SPECIFICATIONS:

Input Voltage: DC 12V/24V
 Operating Voltage: 9V-32V
 Max Current Draw: 25mA
 Operating Temperature: -30°C~85°C

Low Voltage Cut-Out: 11.8V/23.6V
 High Voltage Cut-Out: 14.9V/29.1V
 Cut-Out Current Draw: 9mA

