ELECTRONIC ANTI-CORROSION SYSTEMS

INSTALLATION GUIDE

CATIII-2 (2 Pad System)

Package Contents:

- CATIII Control Module
- Large Coupler Pads (x2)
- Wiring Harness
- Spare Fuse
- Alcohol Wipes
- Black Cable Ties
- Warranty and 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 and machinery.

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.

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.

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STEP 1: PRE-PLANNING – PLEASE READ:

1. Remove all components from the package. Unpack and extend the wiring harness.
2. Locate suitable mounting sites for:-
    a. The Control Module
        i. For Motor Vehicles – Ideally on the same side as the vehicle battery, as far away as possible from the exhaust manifold and where the status indictor light can be seen.
        ii. For Air Conditioners – Within the casing, ideally visible via the inspection plate
    b. Coupler Pads (1+2)
        i. For Motor Vehicles – On a predominantly flat painted metal surface inside the engine bay and spaced as far apart as possible. Some suggested locations for the coupler pads include; On the side walls of the engine bay, the rear fire wall, panel behind the headlights, the shock absorber tower, the inside surface of the front fenders if access is available, inside the windscreen wiper chamber below the front windscreen – will normally require removal of the wiper arms and plastic cover.
        ii. For Air Conditioners - On a predominantly flat painted metal surface on the inside of the casing.

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3. When locations for each component has been identified (i.e. Control Module and each of the Coupler Pads) we recommend the following procedure to ensure the wiring harness will interconnect safely and efficiently with each component.
    a. Plug together the main connector which connects the harness to the 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 or 12VDC power source.
    d. Likewise separate each of the blue Coupler Pad wires and identify a suitable route to each pad.
    e. 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 **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. Secure with an appropriate fastener. (Optional)
    e. If you have not already done so, plug together the main connector which connects the wiring harness to the Control Module.

2. Mounting and Connecting the **Coupler Pads** (follow this procedure for each of the Coupler Pads)
    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 rolling 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 bubbles.
    c. Plug each pad into its associated blue harness cable.

3. Connecting to the **Vehicle Battery** (or 12VDC power source, Air Conditioners etc).
    a. Connect the black lead from the wiring harness to the (-) negative terminal.
        i. Note: For air conditioners or any other installation that requires a 12VDC Converter the 12VDC (-) negative output must be grounded to the metal body, casing or chassis.
    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.

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

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TROUBLESHOOTING

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) Firstly check the condition of your vehicles battery or 12VDC power source
   a) In the case of a motor vehicle we recommend starting the vehicle.
      i) If it doesn't start normally then you will need to resolve that issue first.
      ii) If it does start normally then leave the vehicle running whilst you re-check the status of the LED on the CAT module - if its green then all is ok.
2) Check battery or power source connections. *(Red and Black Wires).*
3) Check In-line Fuse *(on Red Wire to CAT Module.)*
4) Check vehicle isolator switch or main power switch is on *(if fitted).*
5) Check complete power wiring harness to CAT Module. *(Red & Black Wires).*
6) Check module connector plug 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) Firstly check the condition of your vehicles battery or 12VDC power source as for "No Light" above.
2) Measure the Battery or 12VDC power source voltage 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 your vehicles battery or 12VDC power source as for "No Light" above.
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.
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 unit 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 - 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….

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10 YEAR
PRODUCT WARRANTY

Terms and Conditions

This CAT III 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: ……..……..

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:

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

OPERATING SPECIFICATIONS:

Input Voltage:	DC 12V/24V	*Low Voltage Cut-Out:*	11.8V/23.6V
Operating Voltage:	9V-32V	*High Voltage Cut-Out:*	14.9V/29.1V
Max Current Draw:	25mA	*Cut-Out Current Draw:*	9mA
Operating Temperature:	-30℃~85℃		

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