

Earth-Rite® MGV

Installation - Visual Guide

This guide must be read in conjunction with the detailed manual supplied with the product

Failure to install the system in accordance with the manufacturers recommendations may result in unsafe operating conditions and will invalidate the product warranty.



The safety of any system incorporating the equipment referred to in this manual is the responsibility of the installer of the system.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

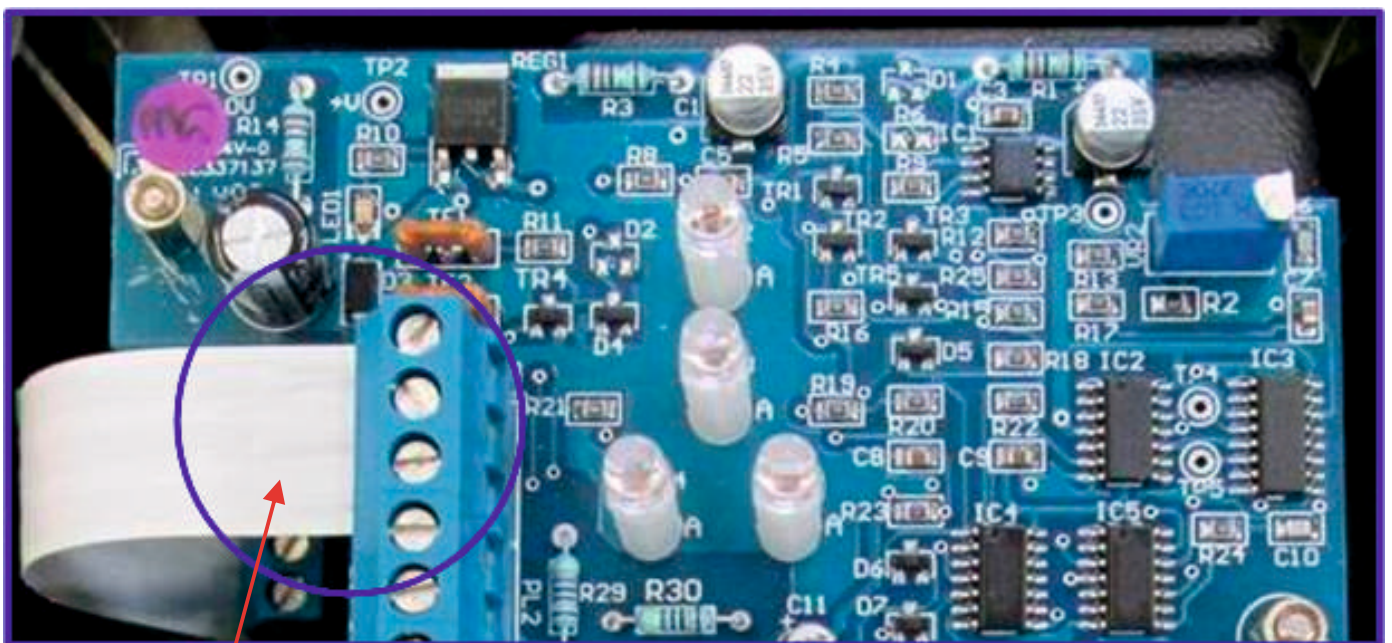
Any warranty is made void if the equipment is not installed, or used, in accordance with the manufacturers instructions.

MGV INSTALLATION - VISUAL GUIDE

Remove the lid of the enclosure by unscrewing the 4 cross-head screws.

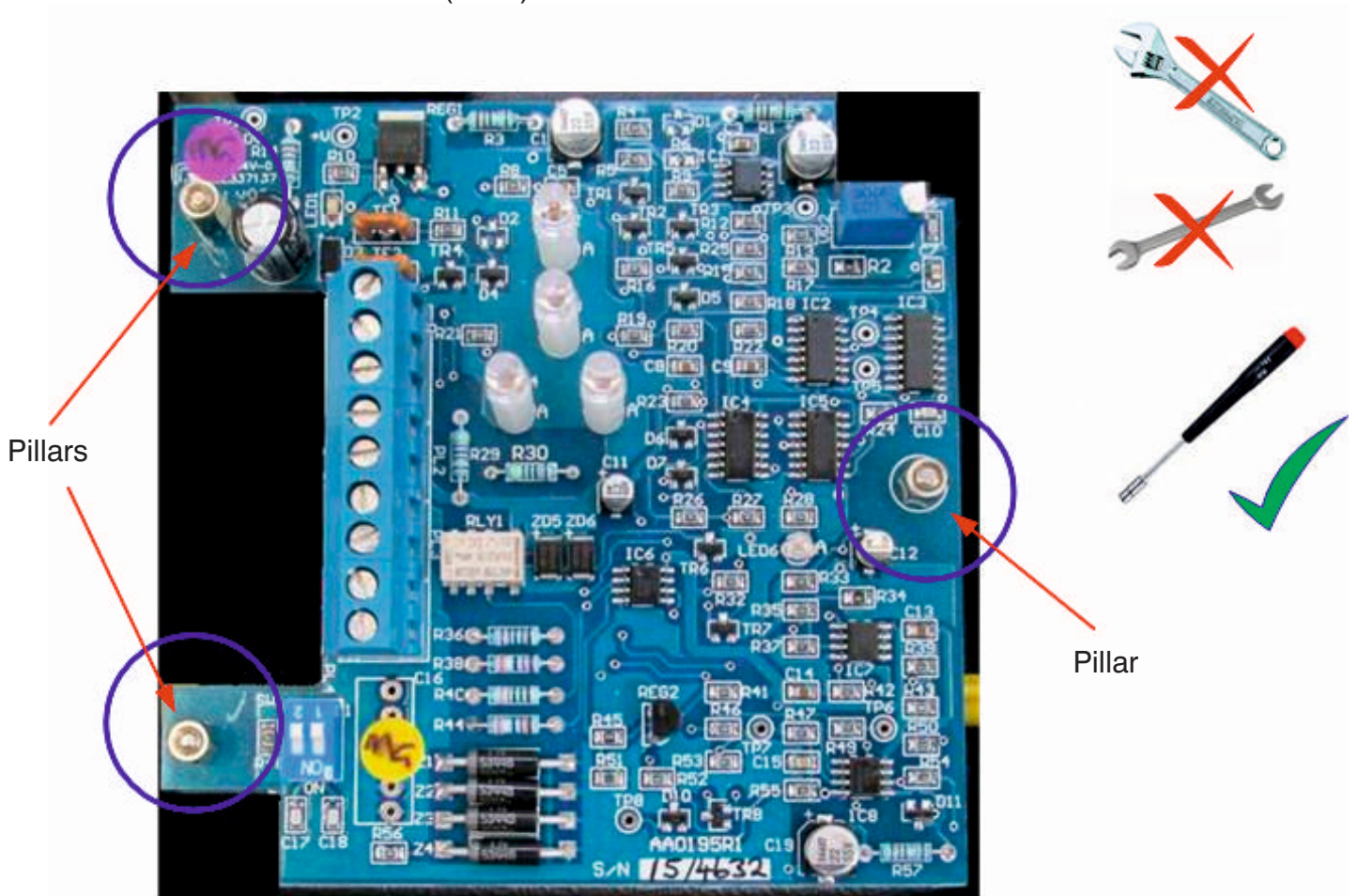


Disconnect the three wires, of the ribbon cable, from the PL1 terminal block.



Ribbon Cable

Remove the monitoring PCB by unscrewing the three hexagonal metal pillars. Use a 13/64 inch across flats (5mm) nut driver. Do not use a wrench.



Place the PCB in the antistatic bag provided and keep it safe.

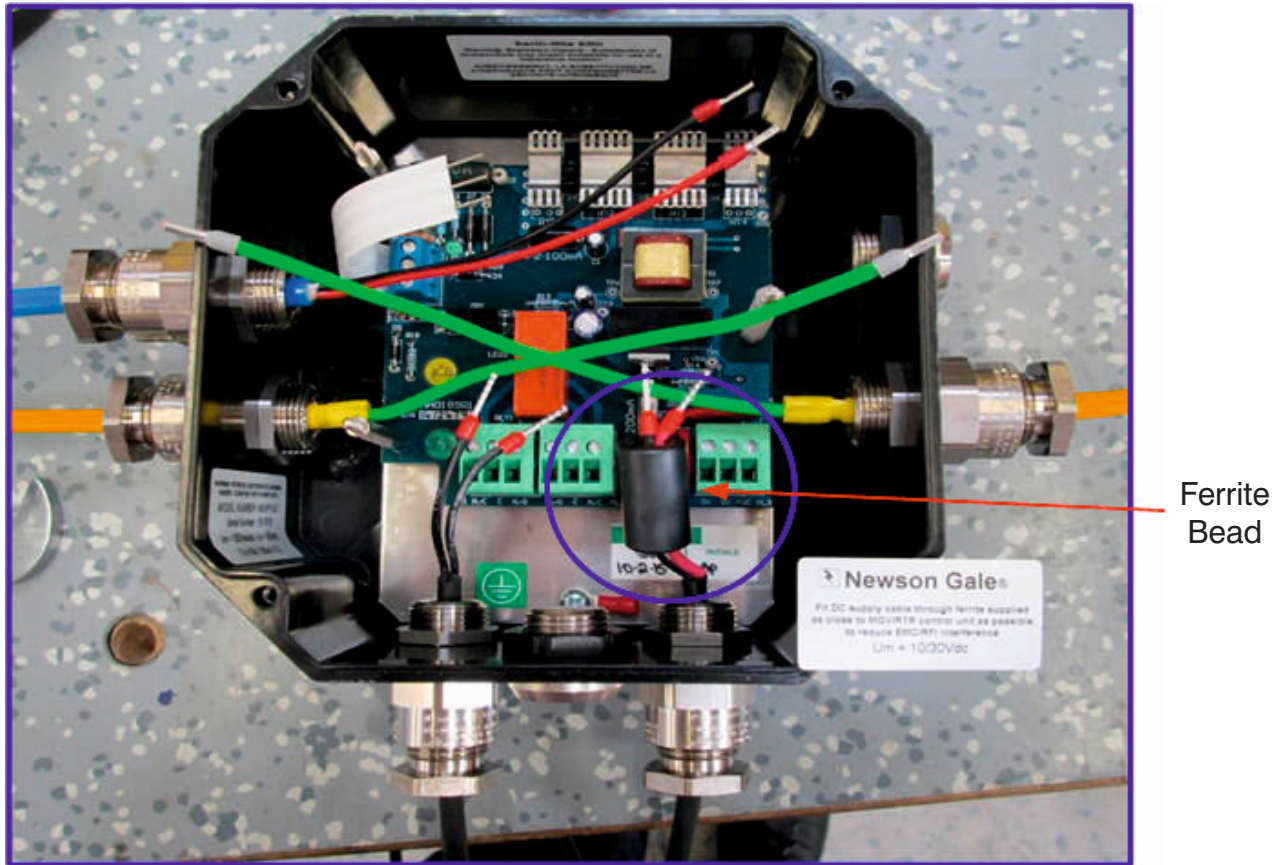
Remove the vac-form insulating cover.

DO NOT MODIFY THIS COVER

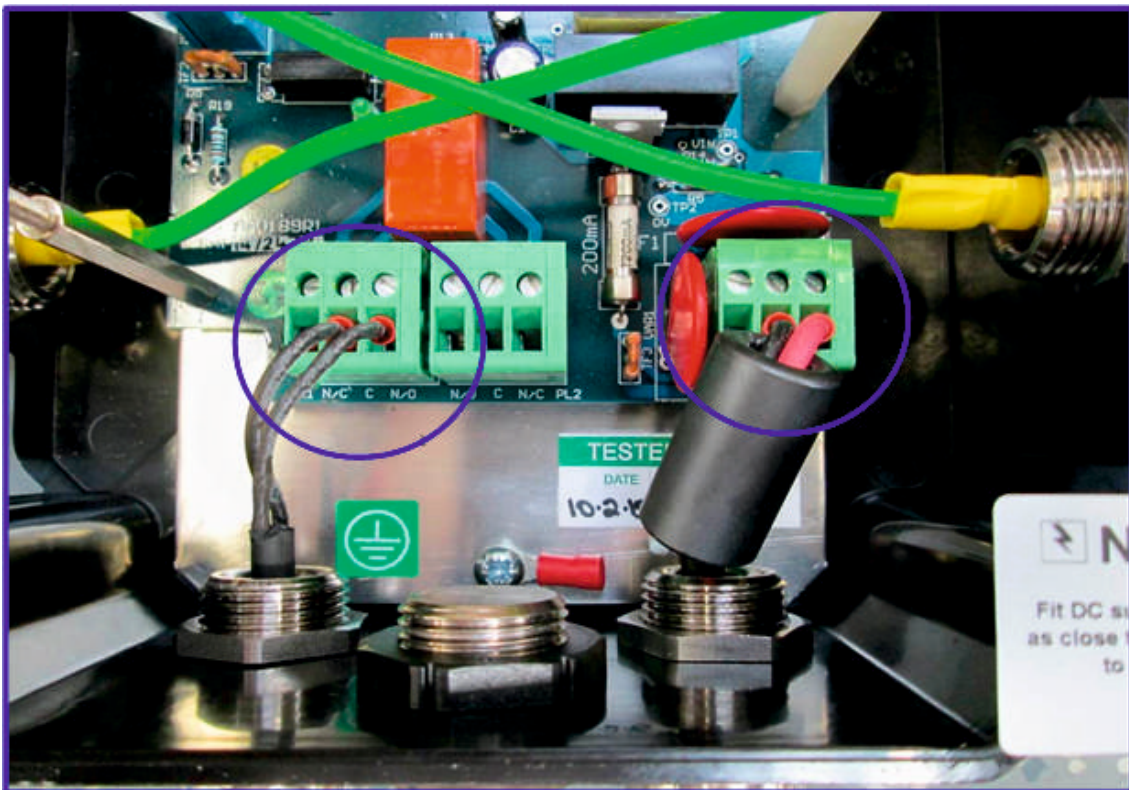


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Install the various cables into the enclosure using suitably approved Cable glands. Fit the DC supply cables through the ferrite bead supplied.

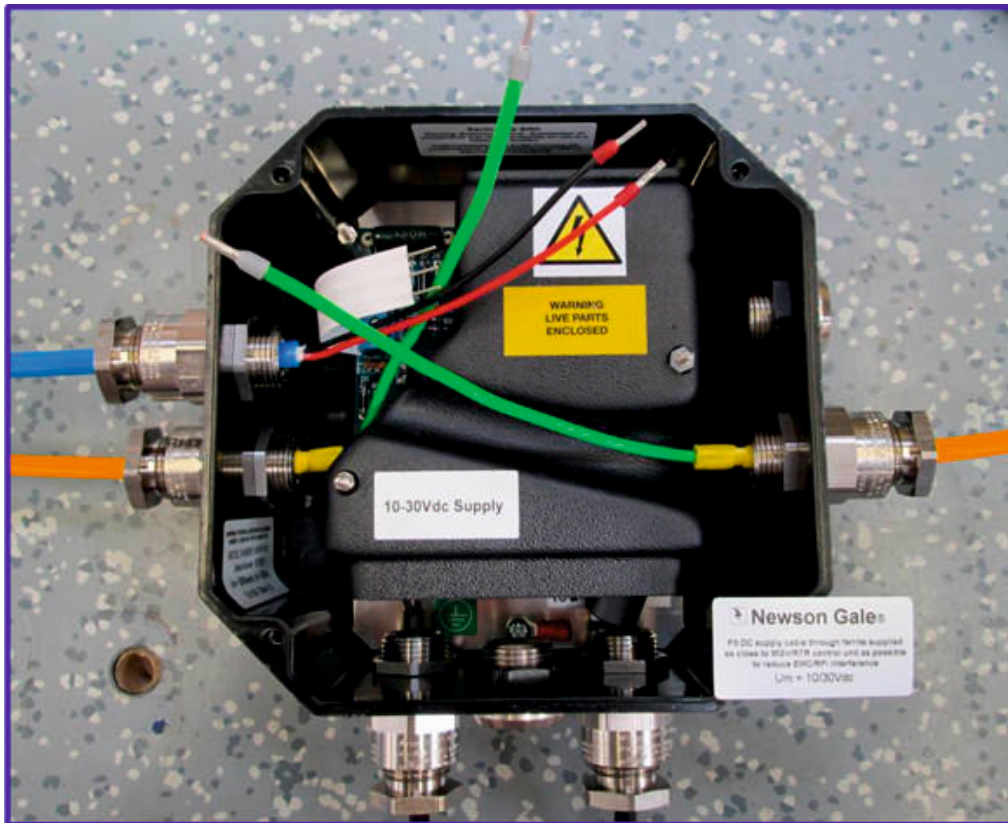


Make the connections to the Power Supply PCB.

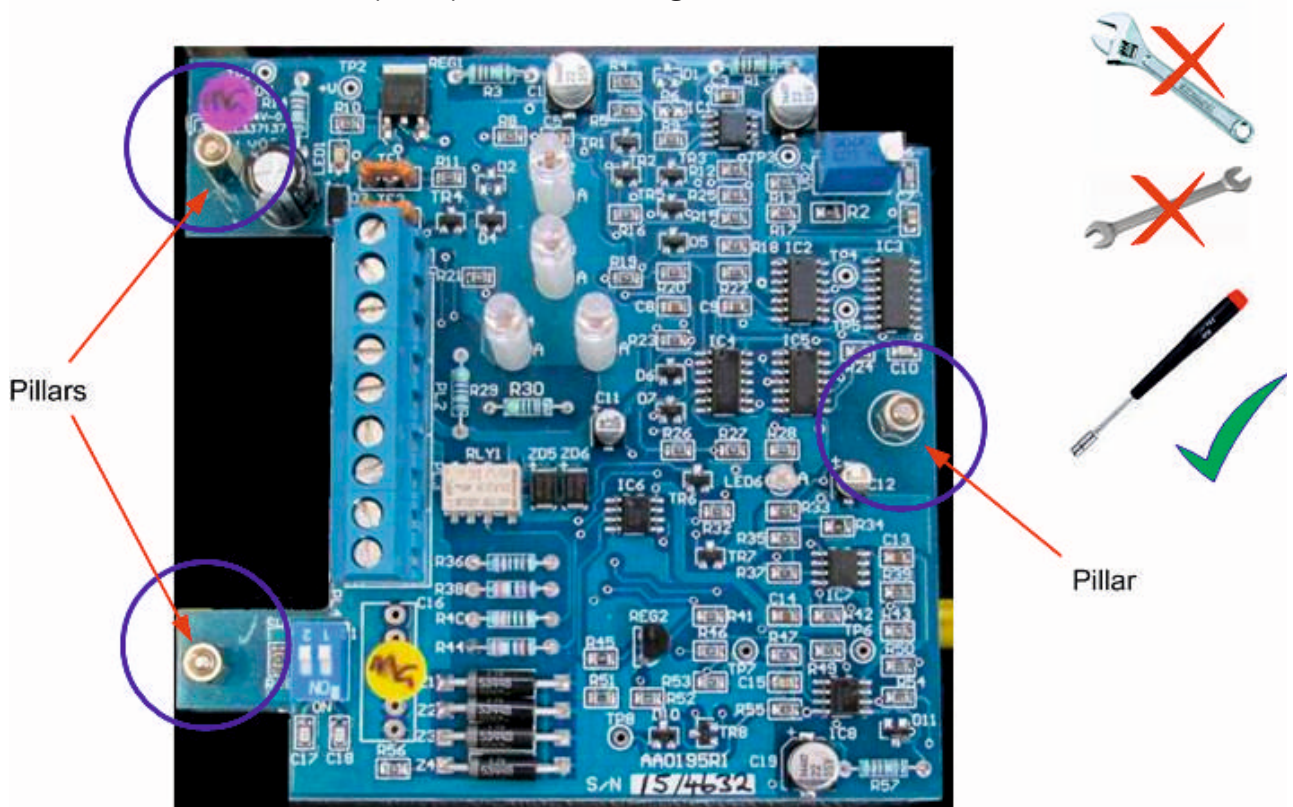


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Replace the vac-form insulating cover.

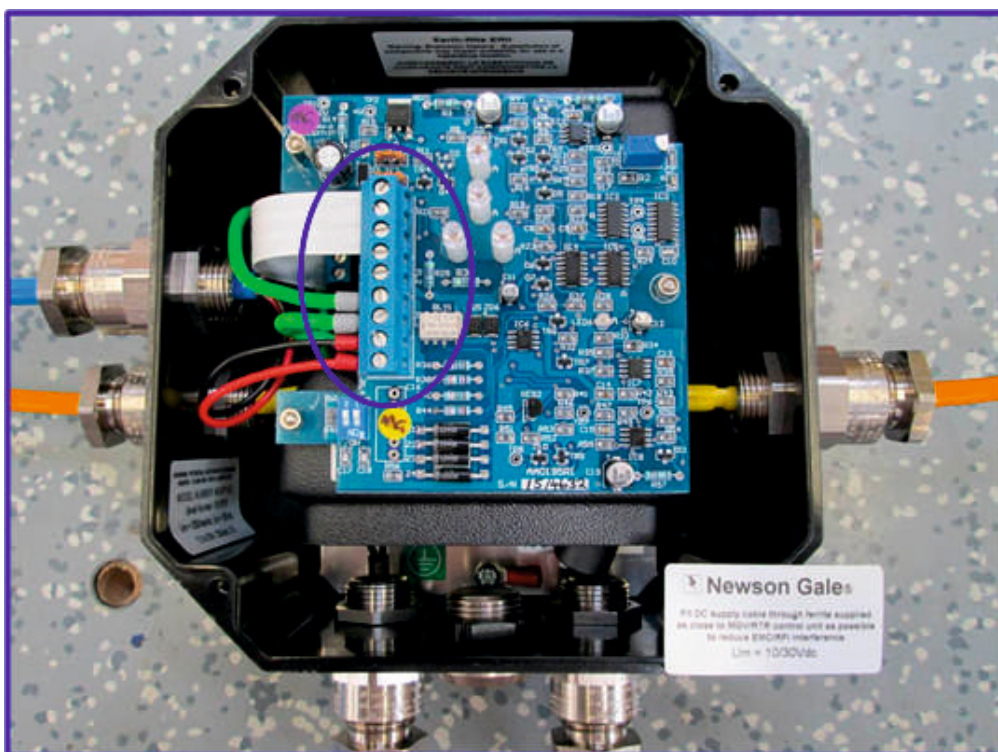


Replace the monitoring PCB and secure using the three hexagonal metal pillars. Use a 13/64 inch across flats (5mm) nut driver to tighten the nuts. Do not use a wrench.



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Re-connect the ribbon cable to PL1 terminal block and make the external Intrinsically Safe wiring connections into the PL3 (G1 & G2) and PL4 (C1 & C2) Terminal blocks.



Replace the lid of the enclosure securely by tightening the 4 cross-head screws.



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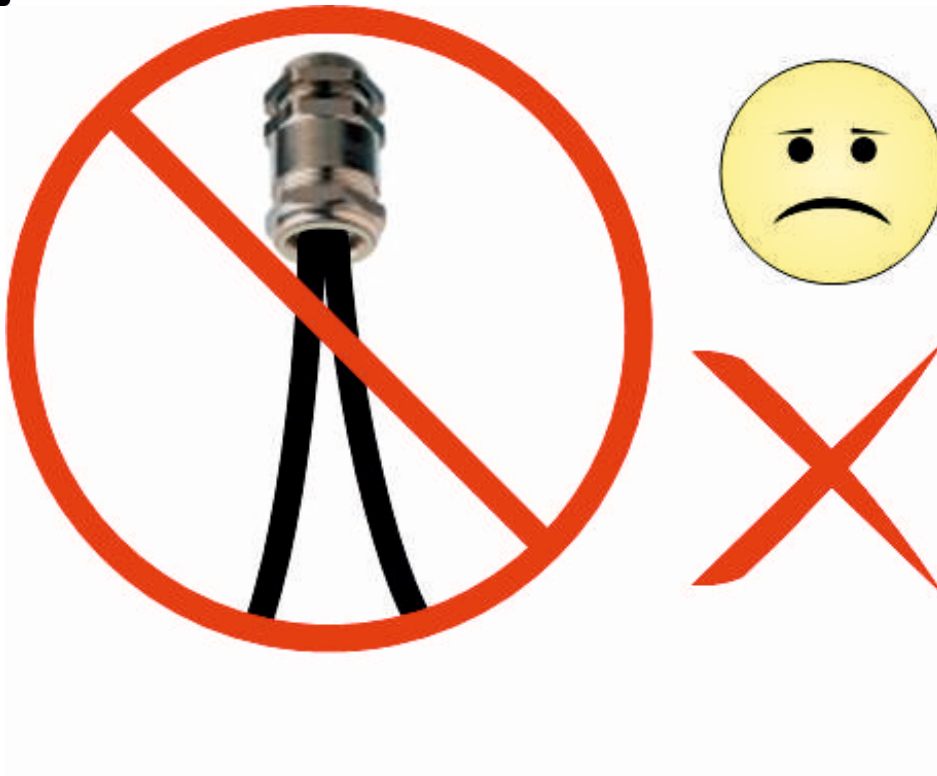
Do's and Don'ts



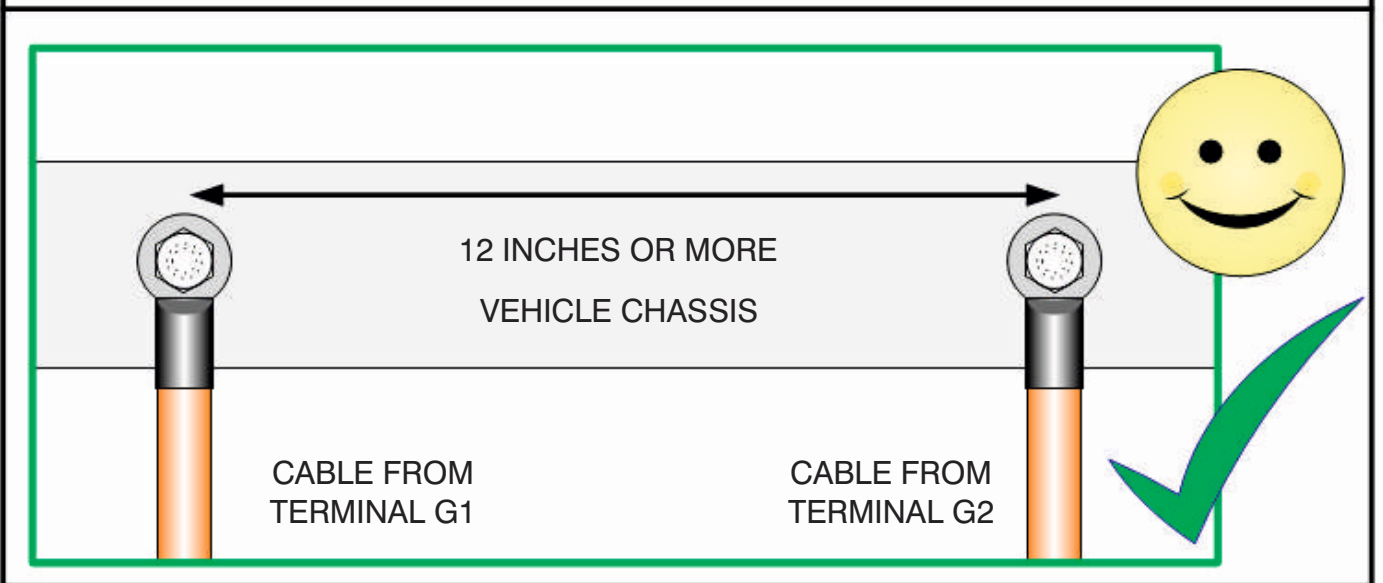
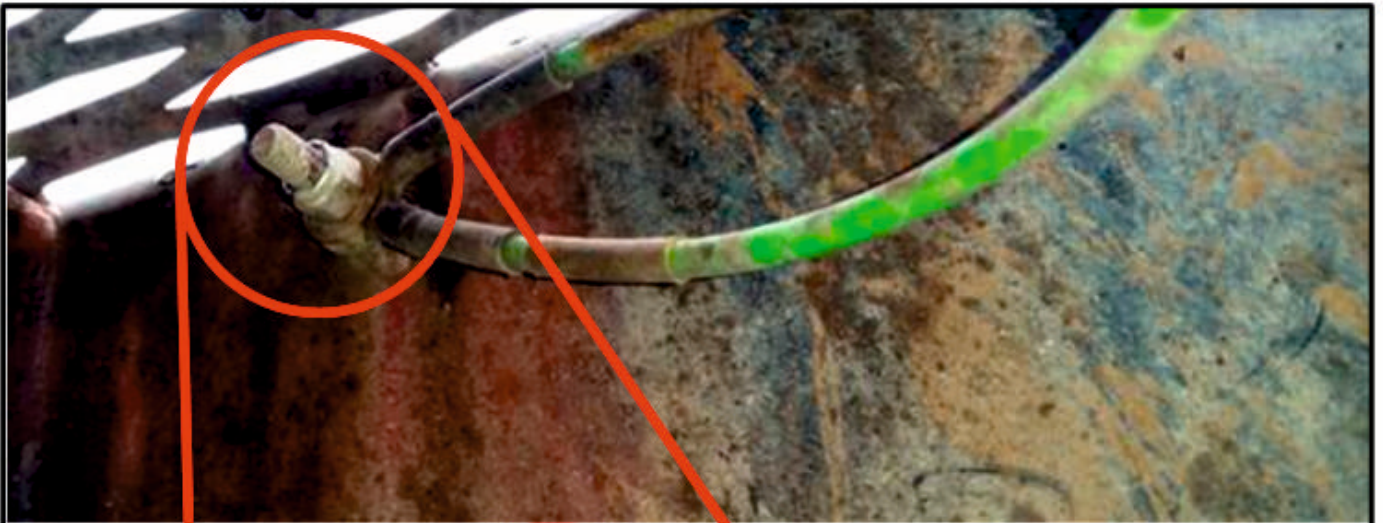
Attention: any tampering of, or modification made to, the enclosure, or the use of unapproved materials, will void the system certification.



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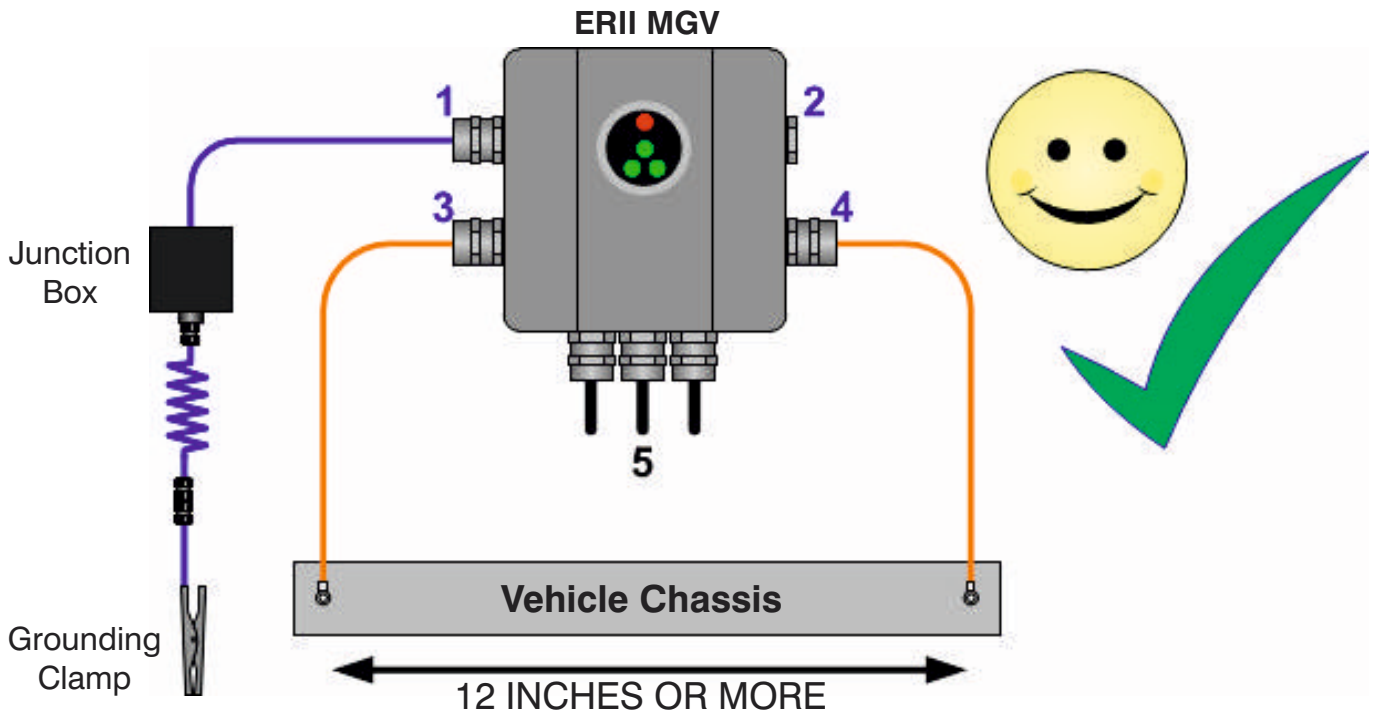
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The cables must enter the enclosure through the entries as shown to ensure certification is maintained.

Always use correctly specified and certified cable glands or conduit fittings.

Please refer to the main manual for conduit installations.

You will invalidate the certification if you do not install as per the instructions



**1 - CABLE ENTRY FOR CLAMP CIRCUIT CABLE
(FROM MONITORING PCB TERMINALS C1 AND C2)**

**2 - OPTIONAL MODE-SELECT KEY SWITCH
(FROM MONITORING PCB TERMINALS S1 AND S2)**

**3 - CABLE ENTRY FOR CHASSIS CONNECTION CABLE
(FROM MONITORING PCB TERMINAL G1)**

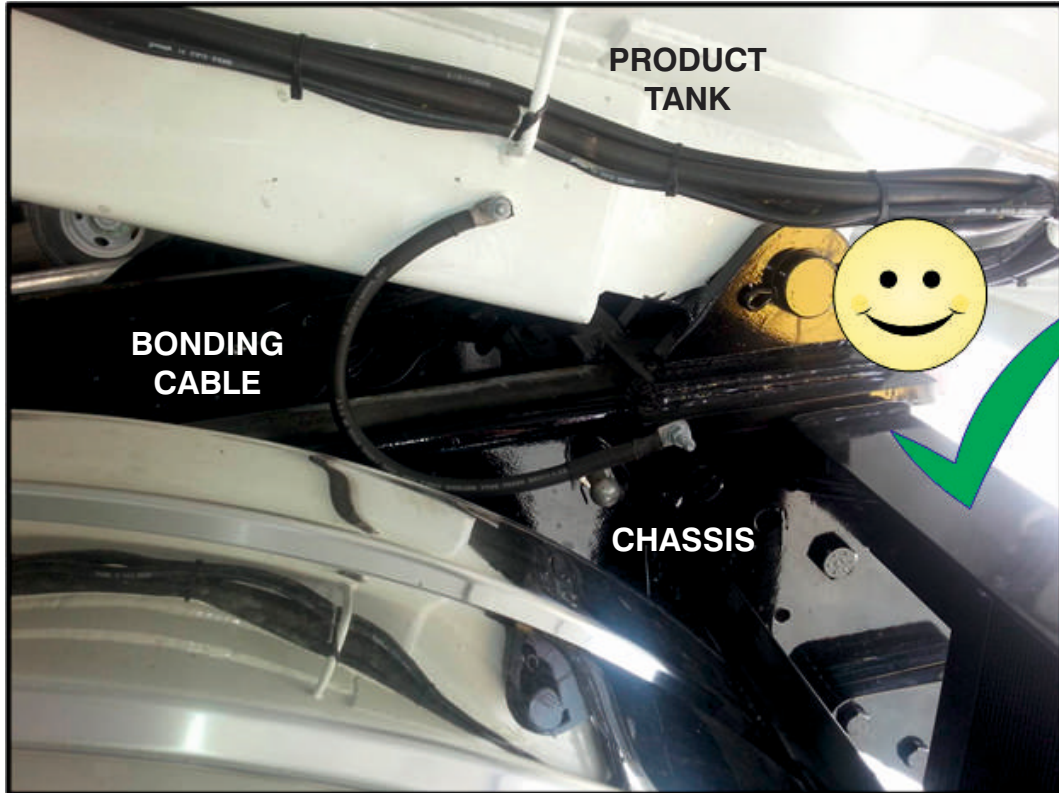
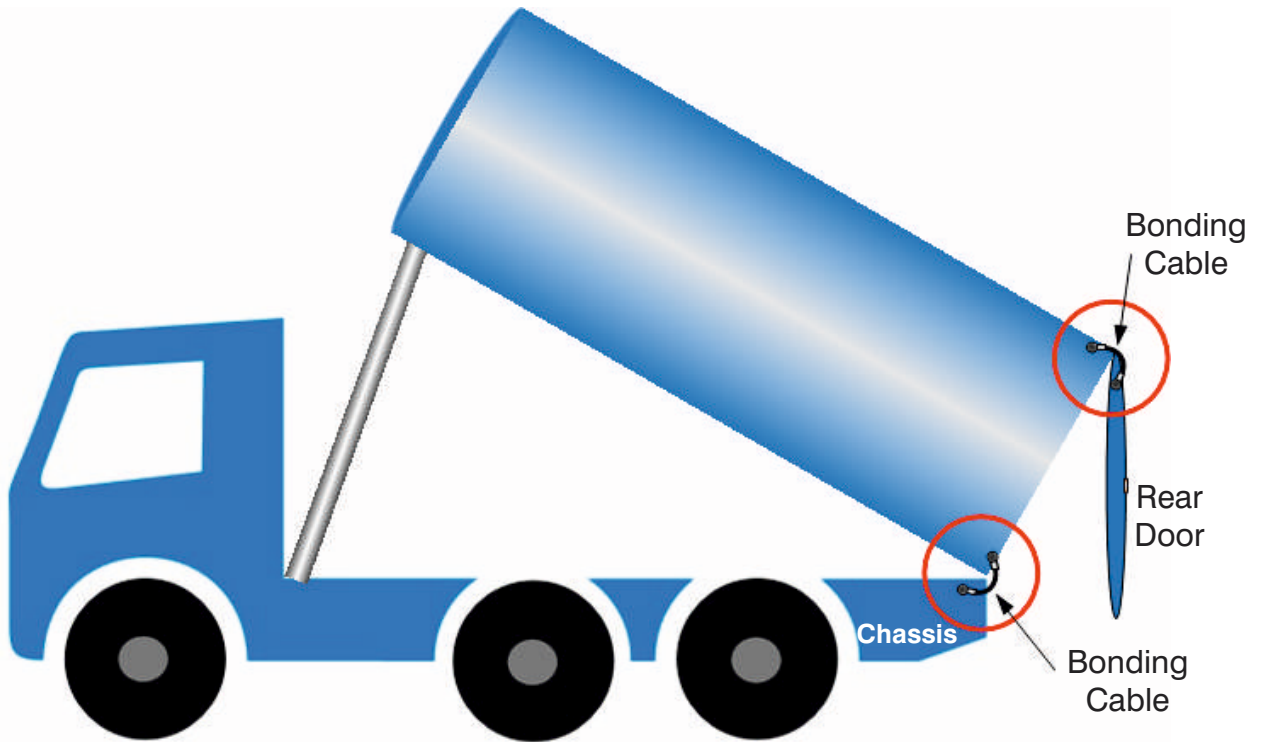
**4 - CABLE ENTRY FOR CHASSIS CONNECTION CABLE
(FROM MONITORING PCB TERMINAL G2)**

**5 - CABLE ENTRIES FOR NON-INTRINSICALLY SAFE CABLES
(FROM POWER SUPPLY PCB TERMINAL BLOCKS PL1, PL2, PL3 AND ENCLOSURE
EARTH TERMINAL)**

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It is essential that the tank truck is fitted out with bonding cables which electrically connect the product tank to the vehicle chassis. Additional bonding cables may be needed to ensure all parts of the product tank, such as a rear door, are bonded together.



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United Kingdom
Newson Gale Ltd
Omega House
Private Road 8
Colwick, Nottingham
NG4 2JX, UK
+44 (0)115 940 7500
groundit@newson-gale.co.uk

Deutschland
IEP Technologies GmbH
Kaiserswerther Str. 85C
40878 Ratingen
Germany
+49 (0)2102 5889 0
erdung@newson-gale.de

United States
IEP Technologies LLC
417-1 South Street
Marlborough, MA 01752
USA
+1 732 961 7610
groundit@newson-gale.com



www.newson-gale.co.uk