

DIODE ISOLATION BLOCK INSTALLATION GUIDE

EN-BI160-2

EN-BI160-3

READ THE OWNERS MANUAL / INSTALLATION GUIDE CAREFULLY BEFORE INSTALLING THE DIODE ISOLATION BLOCK

Important: Be sure to use fuses between the wire from the Alternator and to the batteries. Prevent connection between connector and the heat-sink! A short-circuit can result in a fire!

This type of diode isolation block has a very low voltage drop which, in most cases, makes the use of a compensation diode unnecessary. The higher the load current, the lower the voltage drop.

Important: The diode isolation blocks can only be used in systems with negative earth and always use wires of sufficient diameter.

- Mount the diode isolation block as close as possible to the alternator.
- Detach the cable that leads to the alternator.
- Connect the positive pole of battery 1 to terminal A1 on the diode isolation block, the positive pole of battery 2 to terminal A2, etc.
- Connect the alternator output to connection G of the diode isolation block.
- Reconnect the earthing cables to the batteries to complete the installation.

Connection of the compensation diode (if present)

- Make the connection as described previously, except for the reconnection of the earthing cables.

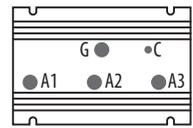
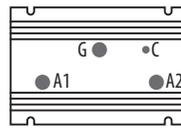
For Bosch generators / alternators:

- Remove the voltage regulator from the alternator by taking out the 2 screws.
- Take a piece of wire (20cm x 1.5mm²) and solder it to the lug of the regulator which normally makes contact with a spring contact. Wind the wire around the lug, bend the lug and tighten it.
- **Important!** Make certain that the lug cannot make contact with the spring.
- Re-attach the voltage regulator to the alternator with the wire outside.
- Connect the other side of the wire to terminal C on the diode isolation blocks
- Also connect the wire to the dashboard lights to terminal C
- Reconnect the earthing cables to the batteries to complete the installation

For generators / alternators with external voltage regulator:

- Cut the D+ wire of the regulator to a length of approx. 5cm from the regulator.
- Connect the wire at the regulator to the C terminal of the diode isolation block. Also connect the wire to the dashboard lights to terminal C.
- Isolate the open wire that comes from the alternator.
- Reconnect the earthing cables to the batteries to complete the installation.

Type	Battery charger (Lader) max	Alternator (Generator) max	Batteries
160-2	110A	160A	2
160-3	110A	160A	3



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