



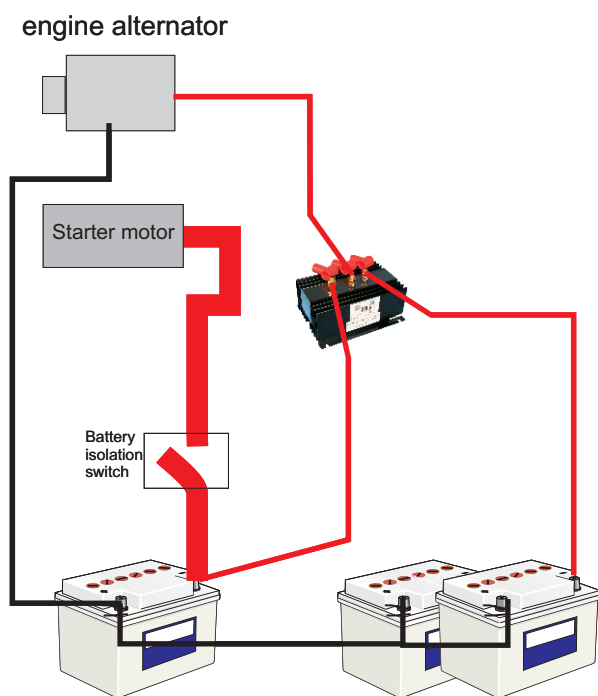
Splitting systems

The Pros and Cons with various alternator splitting systems

**STERLING
POWER**



Standard system fitted with a split charge diode



Battery charging rating

1 2 3 4 5 6 7 8 9 10

Ease of installation

easy 1 2 3 4 5 6 7 8 9 10 hard

Ability to cause problems

1 2 3 4 5 6 7 8 9 10

Overall rating of system

1 2 3 4 5 6 7 8 9 10

Advantages: Simple to fit, no back feed so batteries cannot discharge into

Disadvantages:

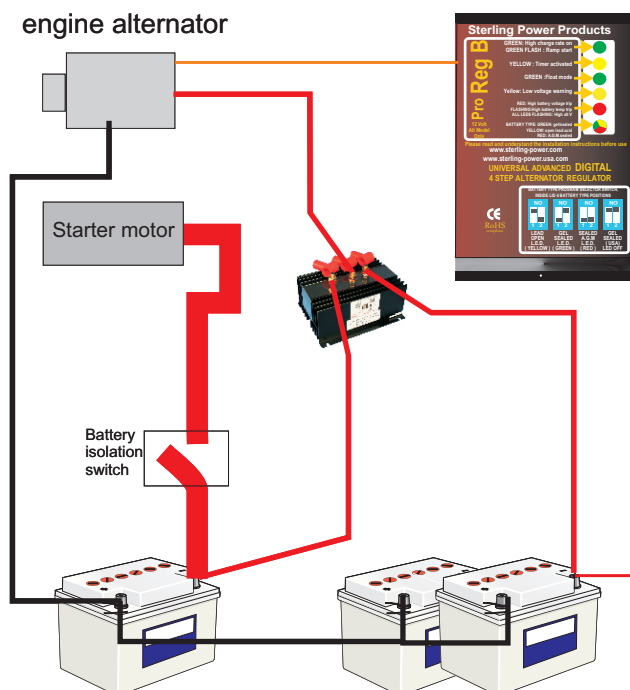
Appalling performance from the point of view of battery charging to say the least, suffers from a 0.8 - 1 volt drop across the diodes.

Extremely slow charge rate and will not fully charge a battery leading to sulfation



Upgrade option 1

Add an advanced alternator regulator to the diode



Battery charging rating

1 2 3 4 5 6 7 8 9 10

Ease of installation

easy 1 2 3 4 5 6 7 8 9 10 hard

Ability to cause problems

1 2 3 4 5 6 7 8 9 10

Overall rating of system

1 2 3 4 5 6 7 8 9 10

Advantages: the advanced regulator will compensate for the voltage drop across the diode and enable the batteries to charge about 10 times + faster and double the effect storage capacity of the

Disadvantages:

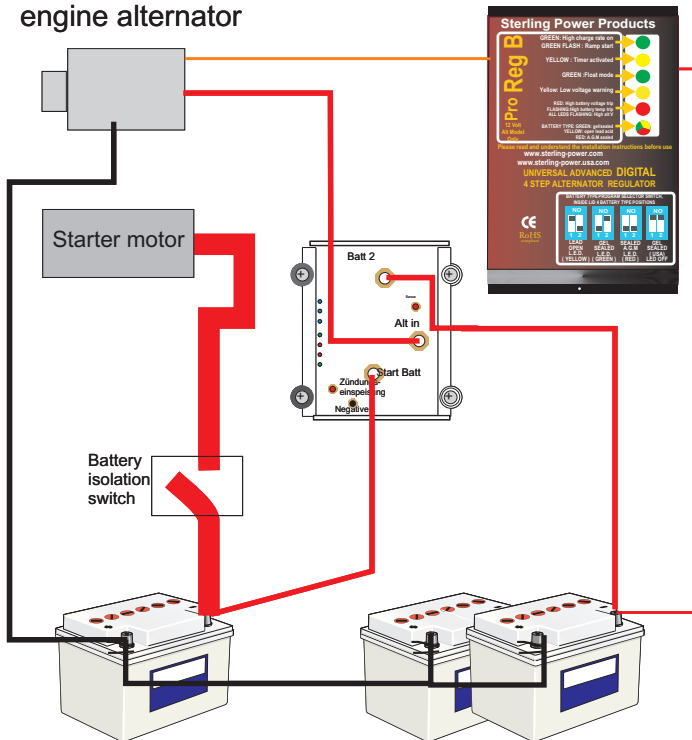
Still got the voltage drop across the diode, however this is compensated for by the advanced but you can still lose about 8% of your charge as heat. If the budget will stand it use a Pro Split R to reduce the heat loss to almost 0%.

Splitting systems



Upgrade option 2

Remove the diode and replace it with a Pro Split R 0.0 volt drop splitter



Battery charging rating

1 2 3 4 5 6 7 8 9 10

Ease of installation

easy 1 2 3 4 5 6 7 8 9 10 hard

Ability to cause problems

1 2 3 4 5 6 7 8 9 10

Overall rating of system

1 2 3 4 5 6 7 8 9 10

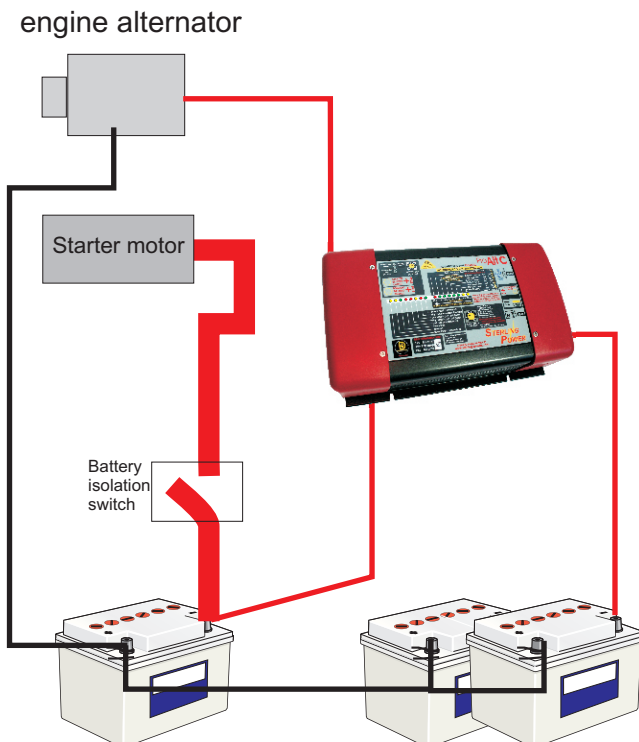
Advantages: The pro split enables the charge to be directed into the aux battery bank with no back feed into the engine battery bank, plus other safety issues such as over voltage protection etc are addressed

Disadvantages:

None

Upgrade option 3

Upgrade the diode with a alternator to battery charger only



Battery charging rating

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Ease of installation

easy 1 2 3 4 5 6 7 8 9 10 hard

Ability to cause problems

1 2 3 4 5 6 7 8 9 10

Overall rating of system

1 2 3 4 5 6 7 8 9 10

Advantages: Gives all the charging performance of the advanced reg without actually being connected to the alternator, extremely simple to fit, no alternator warranty issues, comes with built in splitting system.

Disadvantages:

a little more expensive, but over come by the installation time.