

Split Charge Kit Installation Instructions

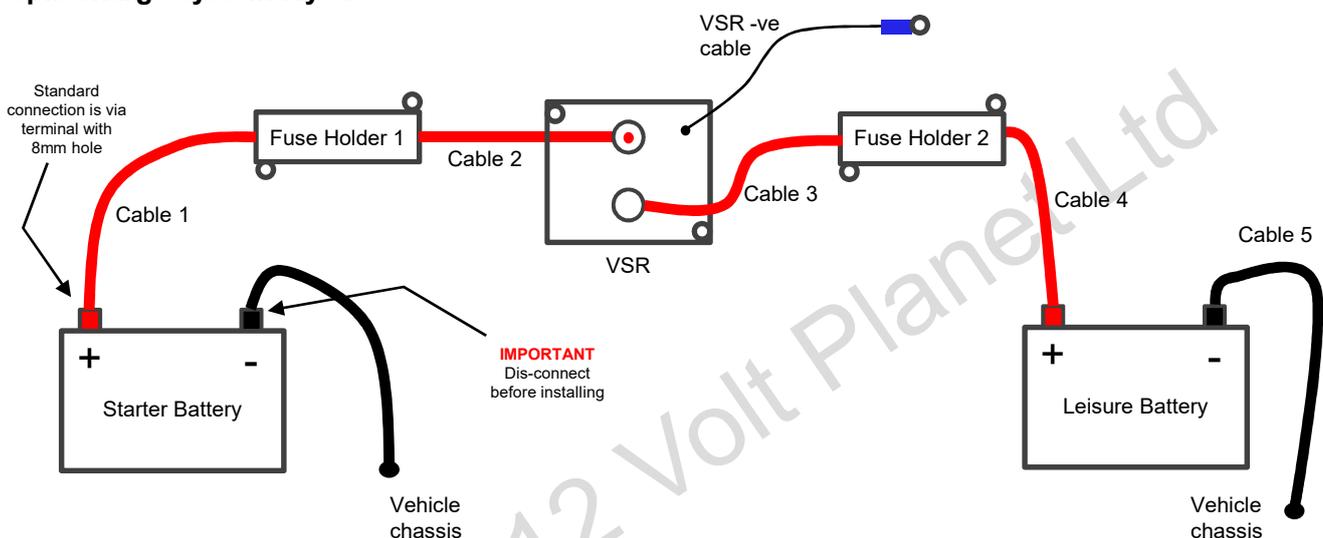
Contents of kit (may vary depending on configuration – typical kit described)

Item no.	Description	Qty
1	Midi Link fuse holders pre-fitted with 80A fuses	2
2	16mm ² (110A) pre-terminated red battery cables (connected to fuse holders)	4
3	16mm ² (110A) pre-terminated black battery cable (leisure battery earth)	1
4	140A Voltage Sensitive Relay (VSR), including ring crimp terminal and fixings	1
5	Battery terminal clamp and cover +ve	1
6	Battery terminal clamp and cover –ve	1
7	No.8 x 1/2" self tapping screws to mount fuse holders	4
8	No.14 x 3/4" self tapping screw to fit leisure battery earthing cable to chassis	1

Tools required

Drill and drill bits
Cross-head screwdriver
Set of spanners
Cutters
Crimp tool for insulated terminals

Split charge system layout



Installation procedure (may vary depending on configuration – typical installation described)

Note: Only for installation in 12V d.c systems where the vehicle chassis is the ground/negative (N/A to boats)

- IMPORTANT: Dis-connect the –ve terminal clamp from the starter battery (and the leisure battery if applicable) and secure out of the way.
- Connect the free end of Cable 1 to a suitable point on the starter battery +ve terminal clamp (CAUTION - ensure that the end of Cable 2 does not touch the starter battery negative post)
- Drill 2x 3mm pilot holes and mount Fuse Holder 1 using the 4 x no.8 self tapping screws (ensure cable 2 will reach intended VSR location).
- Remove the cover from the rear of the VSR, determine where Cables 2 & 3 will enter and where the VSR –ve cable will exit and remove the appropriate break-out panels (or make cut-outs as required, being careful not to damage the PCB).
- Connect the free end of Cable 2 to the terminal marked POSITIVE+ START BATT (this might have a red dot on it).
- Connect the free end of Cable 3 to the terminal inside the VSR marked SECOND BATT POSITIVE+.
- Refit the cover to the VSR, drill 2x 3mm pilot holes and mount the VSR using the long self tapping screws supplied with the VSR.
- Determine a suitable earthing point for the VSR –ve cable, cut to length and remove approx. 8mm of insulation (if required), then crimp the supplied blue ring terminal to the end of the cable, being sure to crimp the conductor and the insulation.



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Installation procedure contd.

9. Drill a 3mm pilot hole in a suitable location on the vehicle chassis, remove any paint around the hole to expose bare metal and secure the blue ring crimp terminal to the chassis using one of the shorter self tapping screws supplied with the VSR. If more convenient, the VSR -ve cable can be connected to the starter battery -ve terminal. **NOTE:** If the kit is being installed on a boat then this must be connected to the starter battery -ve terminal or a suitable location on the -ve system (e.g. spare busbar terminal).
10. Drill 2x 3mm pilot holes and mount Fuse Holder 2 using the 4 x no.8 self tapping screws (ensure Cable 4 will reach intended leisure battery location).
11. Connect the +ve terminal clamp at the end of Cable 4 to the leisure battery +ve terminal.
12. Drill a 5.0–5.5mm pilot hole in a suitable location on the vehicle chassis, remove any paint around the hole to expose bare metal and secure the terminal at the end of Cable 5 using the no.14 self tapping screw (ensure the other end of the cable will reach the leisure battery -ve terminal). Alternatively, the cable may be attached to an existing mounting point on the chassis if there is good electrical connection, or to the starter battery -ve terminal, whichever is most convenient. **NOTE:** If the kit is being installed on a boat then this must be connected to the starter battery -ve terminal or a suitable location on the -ve system (e.g. spare busbar terminal).
13. Connect the -ve terminal clamp at the end of Cable 5 to the leisure battery -ve terminal.
14. Re-connect the -ve terminal clamp to the starter battery.
15. Fit cable ties where necessary to prevent excess cable movement which might cause rubbing of the insulation.

Note

Since it's not possible to know the exact configuration for every vehicle/boat there might be rare occasions where the starter battery +ve terminal will not have a suitable fixing point for connecting Cable 1 using our standard terminal with a 8 mm hole. In this event please call us to discuss options.

Thank you!

Thank you for purchasing this kit and for your valued custom. If you have any problems or questions regarding the installation please contact us.

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If you liked this product then please let us and others know



IMPORTANT

It is the installer's sole responsibility to install and use this product in a manner that will not cause accidents, personal injury or property damage. Please follow the installation instructions supplied. If installation is not carried out correctly the unit may not perform as designed. If in doubt please contact us before installing. 12 Volt Planet Ltd cannot accept liability for any damage to persons or property or for any consequential loss resulting from the misuse of this product.