



Dual Battery Kit Fitting Instructions

Adventure Kings Dual Battery Kit Fitting Instructions

We recommend that the Adventure Kings Dual Battery Kit is installed by a licensed auto-electrician.

WARNING:

- **Like any addition to your 12v set-up, ensure you've installed a fuse or circuit breaker at each battery**
- **Ensure the dual battery kit is out of the way of moving parts and sharp objects which could ruin the integrity of any component of the kit.**
- **Ensure all connections are secure and there is no loose or exposed wiring**
- **Check regularly for signs of stress or damage**
 - **DO NOT USE the kit if it has sustained any damage.**

TOOLS REQUIRED:

- a) Cutting pliers, side cutters or cable stripper to cut and strip the cable
- b) Crimpers for terminal crimping
- c) Spanner set or socket set
- d) Philips screwdriver
- e) Power drill and 3.5mm (9/64) drill bit
- f) Voltmeter

Adventure Kings Dual Battery Kit Fitting Instructions

STEP 1:

1. Lay out your Dual Battery Kit and check that all the components are in the kit.

Supplied should be:

1 x Smart Battery Isolator with mounting screws

1 x 6-meter length of 10mm sq red cable

1 x Black earth cable

2 x Positive Marine battery terminals

1 x Negative Marine battery terminal

1 x SC25-10 Copper crimp lug

2 x 16-8 Copper crimp lugs

2 x Red heat shrink

1 x Insulated blue ring terminal

6 x 200mm cable ties

STEP 2:

Isolate the starting battery by removing the negative terminal.

STEP 3:

Select a location for the Smart Battery Isolator (SBI) that is easily accessible and will not have the cables running near your exhaust and is as close as possible to the starting battery.

STEP 4:

Remove the lower mounting plate from the SBI to use as a template and mark the position of the four (4) holes to be drilled. Drill the holes using a 3.5mm (9/64) drill bit

STEP 5:

Secure the two (2) blind holes of the base with the short 4mm screws.

Adventure Kings Dual Battery Kit Fitting Instructions

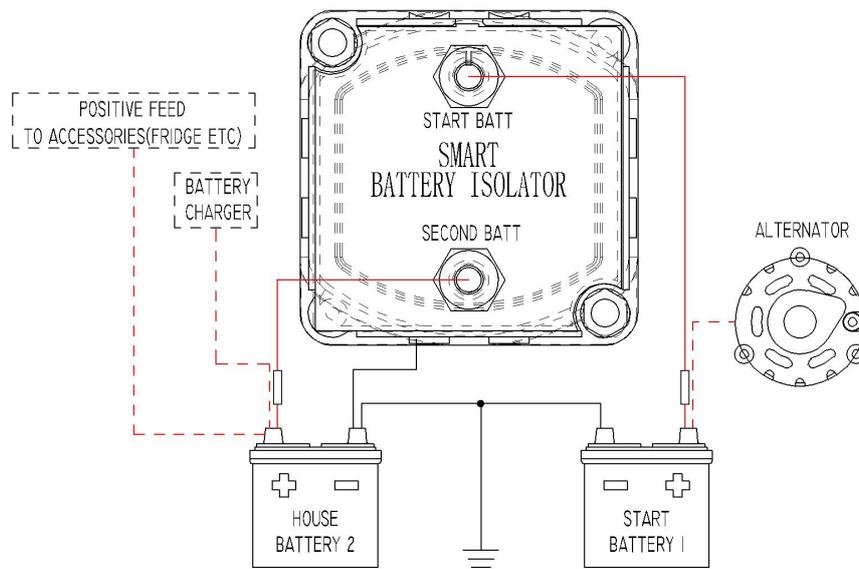


FIGURE 1

STEP 6:

Take the 6-meter length of red cable, which has been terminated at both ends. Begin from the centre of the mounting plate and run the cable along the inner guard and firewall to the positive terminal of the starting battery (be careful to keep the wiring away from any moving parts). Cut the cable to length.

STEP 7:

Repeat the above process to the positive terminal of the auxiliary battery.

STEP 8:

Strip the un-terminated ends of both cables back 15mm, fit the copper lugs and crimp in place, making sure the connection is secure. Alternatively, you can solder the cable to the lug if you wish.

STEP 9:

Slide the heat shrink over the lug and cable then heat with a flame or hairdryer until secure.

STEP 10:

Attach the insulated ring terminal to the black wire on the SBI. This is an earth wire and it is important that it has a secure and clean (bare metal) contact. If possible, select a nearby bolt or screw that is earthed to the body.

Adventure Kings Dual Battery Kit Fitting Instructions

STEP 11:

Attach both red cables to the SBI and tighten the retaining nuts. The cable from the start battery goes to the stud on the SBI with the painted RED dot. The cable from the auxiliary battery goes to the unpainted stud.

NOTE: YOU MUST CUT THE NOTCHED SECTIONS IN THE SBI HOUSING WHERE YOU REQUIRE THE CABLE TO EXIT.

STEP 12:

Mount the SBI to the bottom plate and fix with the two (2) longer 4mm screws.

STEP 13:

Secure the black earth lead on the SBI to the selected earth point.

STEP 14:

Fit the Positive (Red +) battery terminal and the Negative (Black -) battery terminal to the auxiliary battery and tighten.

STEP 15:

Auxiliary battery BLACK earth cable - Select a nearby body bolt or drill an 8mm hole in the inner guard and secure one end of the black earth cable, make sure to have a secure and clean (bare metal) connection.

WARNING: LIKE ANY ADDITION TO YOUR 12V SET-UP, ENSURE YOU'VE INSTALLED A FUSE OR CIRCUIT BREAKER AT EACH BATTERY

STEP 16:

Attach the RED lead from the SBI to the positive (+) terminal of the auxiliary battery and tighten, then secure the cable using the cable ties.

STEP 17:

Attach the other end of the BLACK earth lead to the negative (-) terminal of the auxiliary battery.

STEP 18:

Before fitting the battery terminal to the positive side of the start battery, check the type of the existing battery terminal and if it has a stud and nut on the terminal to secure the existing wiring connect to the existing terminal.

Adventure Kings Dual Battery Kit Fitting Instructions

STEP 19:

Attach the RED cable from the SBI to the positive (+) terminal of the start battery and tighten, secure the cable using the cable ties.

STEP 20:

Re-connect the start battery earth cable.

STEP 21:

Test for a proper earth on the auxiliary battery by placing a voltmeter across the positive (+) and negative (-) terminals and take a reading. Remove the negative (-) probe and place on an earth point on the body or engine (not the point the earth cable is mounted), both readings should be the same. If the readings are not the same check the earth cable has a clean and secure mounting.

STEP 22:

Start the vehicle's engine.

STEP 23:

When the starting battery's voltage reaches cut-in voltage the relay will close automatically and allow the auxiliary battery to be charged. Indicated by the red light on the front panel of the SBI being illuminated.

STEP 24:

Ensure that the auxiliary battery is charging by checking that the voltage is above 13.3V.

STEP 25:

Turn off the engine.

STEP 26:

Check that the SBI disengages when the start battery's voltage falls below cut-out voltage. This can take some time so to speed up the process turn on the headlights or leave the door open and interior lights on.

If the SBI works as per the above tests, congratulations you have successfully installed your Dual Battery Kit.

12 MONTH LIMITED WARRANTY

WARRANTY PERIOD:

Full 12 month warranty from date of purchase against all manufacturing defects.

WHAT DOES THE WARRANTY COVER?

Under normal usage conditions, this warranty covers:

- a. Any defect in design or manufacture which results in the product failing to perform substantially as described in authorised advertising or literature.
- b. We will either repair or replace the product at our discretion providing that the fault is found to have been caused by a design or manufacturing defect and not misuse or tampering.

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. The benefits provided to you as the consumer by this warranty are in addition to other rights and remedies available to you under the law.

THE WARRANTY DOES NOT COVER:

- a. Any damage resulting from improper use
 - b. Faulty installation or modification made during installation
 - c. The cost of removing and reinstalling the product
 - d. Travel and /or other expenses due to customer's remote location
 - e. Transport charges and damage in transit. It is your responsibility to deliver and pick up your product, including any costs associated with the postage of your repair or replacement product. If you do freight your product we recommend that you insure against loss or damage.
 - f. Any loss directly or indirectly associated with the product failing to operate.
 - g. Damage caused by mould, insects, animals, misuse, incorrect operation, adverse weather, accidents and fair wear and tear
-

TO MAKE A CLAIM UNDER THIS WARRANTY PLEASE CALL

1800 88 39 64



OUTDOOR SUPACENTRE PTY LTD
2 Stanley St Silverwater NSW, 2128
PHONE: 1800 88 39 64
www.4wdsupacentre.com.au

