

## DUAL BATTERY ISOLATOR KIT

**Kit Contents:**

1. Isolator Relay
2. Dual position switch
3. Switch wiring harness
4. (+) Battery post clamp
5. (-) Battery post clamp
6. Battery cables (3)
7. Relay mounting hardware



**PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE YOU BEGIN**

Notice: Safety glasses, gloves and protective clothing should be worn when working around batteries. Disconnect cables from the battery before you begin.

**Step 1. Mount the Dual Battery Isolator.**

When using Rugged Ridge Dual Battery Trays use the following locations:  
**CJ-(76-86), YJ-(87-95)** Mount the Isolator to the battery hold down bar.

**TJ-(97-06)** Mount the Isolator to the bracket on the radiator core support rod (As shown).

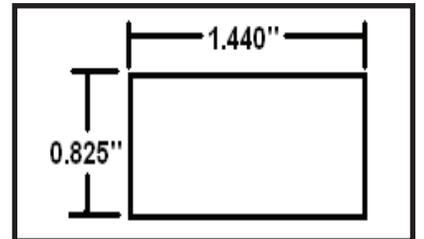
**JK-(2007+Up)** Mount the Isolator to the battery tray below the evap solenoid.

When not used with a Rugged Ridge Dual Battery Tray you will need to find a suitable secure mounting location.

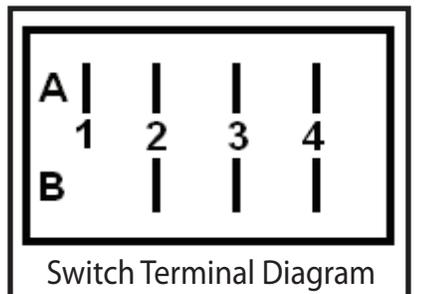


**Step 2. Mount the Rocker switch in a suitable location.\*** The switch requires a square mounting hole cut to the dimensions provided in the illustration.

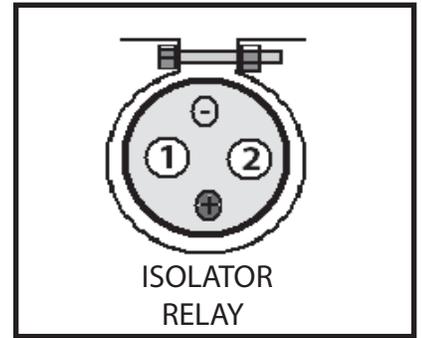
\*Rugged Ridge switch housing are available. Sold separately.



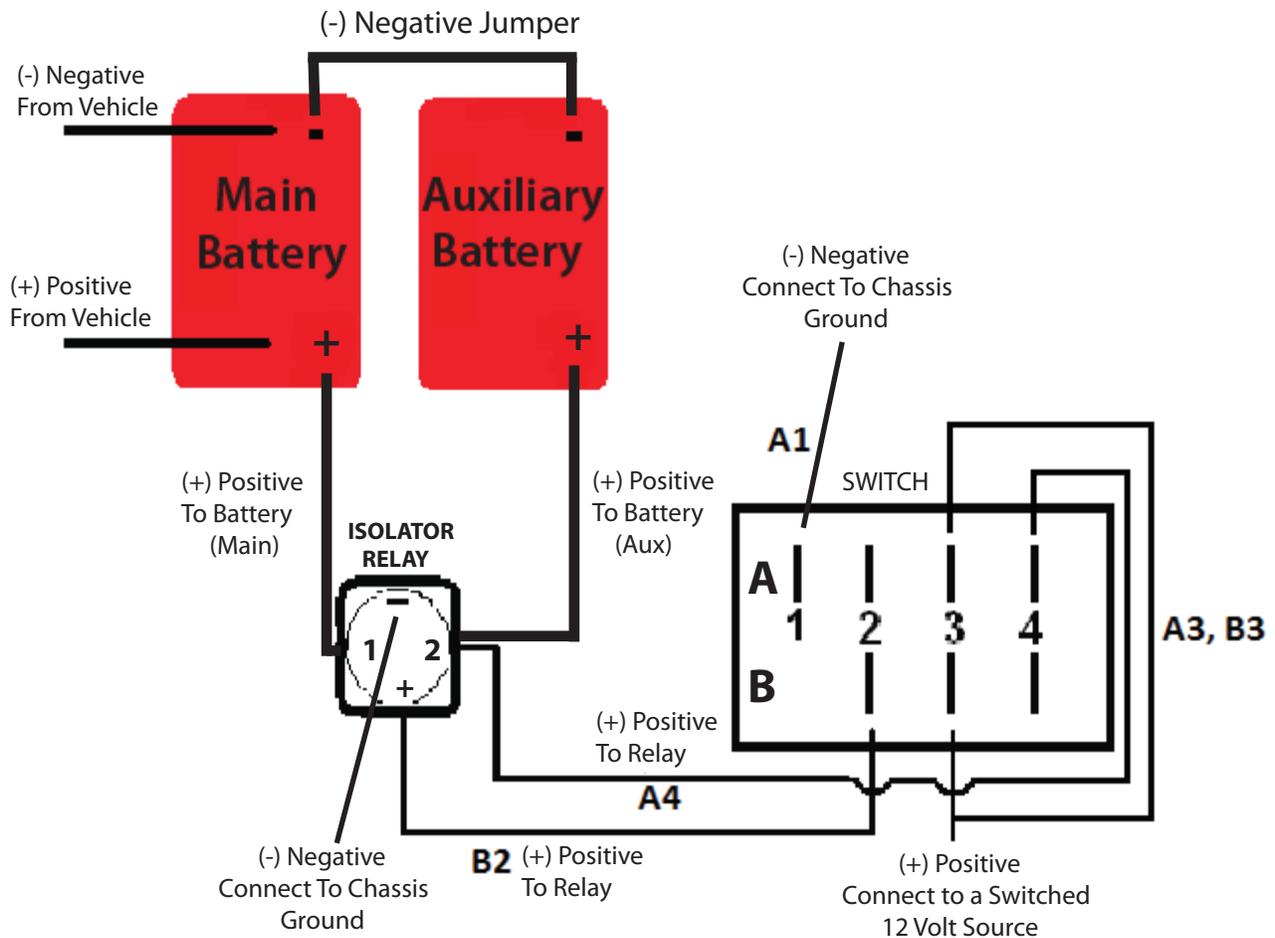
**Step 3. Wiring the switch.** Connect one end of the supplied ground wire to terminal A1 and the other end to a good chassis ground. Connect one of the long red wires from terminal A4 to the #2 post on the Isolator Relay. Connect one of the long red wires from terminal B2 to the (+) post on the relay. Locate the supplied wire with the inline fuse, connect the end of the wire with 2 spade terminals to the A3 and B3 terminals on the switch. Connect the other wire to a switched positive lead that only has power when the ignition key is in the on position. See diagram on page 2 for further wiring information.



Step 4. Wiring the Isolator Relay. Connect the small (-) wire to the small (-) position post on the relay, connect the opposite end to a chassis ground. Connect the short (-) cable to the auxiliary battery using the supplied (-) battery clamp, connect the opposite end to the main battery negative clamp. Tighten and secure both (-) clamps. Connect one of the long (+) cables to the auxiliary battery using the supplied (+) battery clamp, connect the opposite end to the #2 position post on the relay. Connect the other (+) cable to the #1 position post on the relay, connect the other end to the (+) on the main battery. Tighten and secure all (+) connections. Check all wires to ensure they do not touch any hot or sharp surfaces. Test the system for proper function.



- All L. E. D.'s off- System is off and in factory mode.
- Green L. E. D. on- System is on (Normal mode). Starts and runs with main battery. Charges both batteries with ignition on.
- Red L. E. D. on- System is on (Emergency mode). Both batteries are connected. Joins both batteries for Starting or Winching when main battery is dead or vehicle motor is inoperative.



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