



## Important

OE battery locations can vary and space can be limited. Find a location to mount your secondary battery within 20" of your OE battery. Be sure to secure your second battery with the included universal battery strap.

### Smart Battery Isolator Specifications

System Voltage	9 - 16V
Batteries connected	> 13.2V
Batteries disconnected	< 12.7V
Turn ON Delay	5 sec
Turn OFF Delay	10 sec
Max. Cont. Current	80 Amps
Standby Current	< 5mA

### KIT COMPONENTS:

01	80 Amp Smart Battery Isolator	x1
02	6 AWG Red Wire 24"	x2
03	6 AWG Black Wire 24"	x1
04	Dual Volt Meter ARB Carling Style	x1
05	Universal Battery Strap	x1
06	Footman Mounts	x2
07	Accessory wire 16 AWG	x4
08	Cable Ties 6"	x8
09	Hex Head Screws	x4

Dual Sensing Smart Battery Isolator monitors both the starting and the secondary battery. If the unit detects voltage above 13.2 v the isolator will activate and connect the batteries together. When the isolator see the voltage drop below 12.7 v it will separate the batteries, protecting your starting battery.

\*\*If a heavy current draw is expected like when using a winch, press the manual On/Off switch and it will connect both batteries together for 60 seconds. The switch activates a timer so it will automatically separate the batteries once the 60 seconds is up.

## Installation steps

**Step 1:** Locate the vehicles factory battery and determine the best mounting location for the secondary battery. For ease of installation keep the second battery with in 20" of OE battery.

**Step 2:** Using the universal battery strap and footman mounts secure the secondary battery to the vehicle.

**Step 3:** Find a convenient location near the batteries to securely mount your smart battery isolator.

**Step 4:** Connect pre-wired ground terminal from the smart battery isolator to chassis ground. If mounting to a non-metal surface use the 24" 16 ga black wire supplied with kit and ground directly to your battery.

**Step 5:** Connect the 6 AWG red cables to the isolator and then to each positive battery post. Refer to wiring graphic to identify which terminal on the isolator goes to the starting battery, the other terminal will go to the secondary battery.

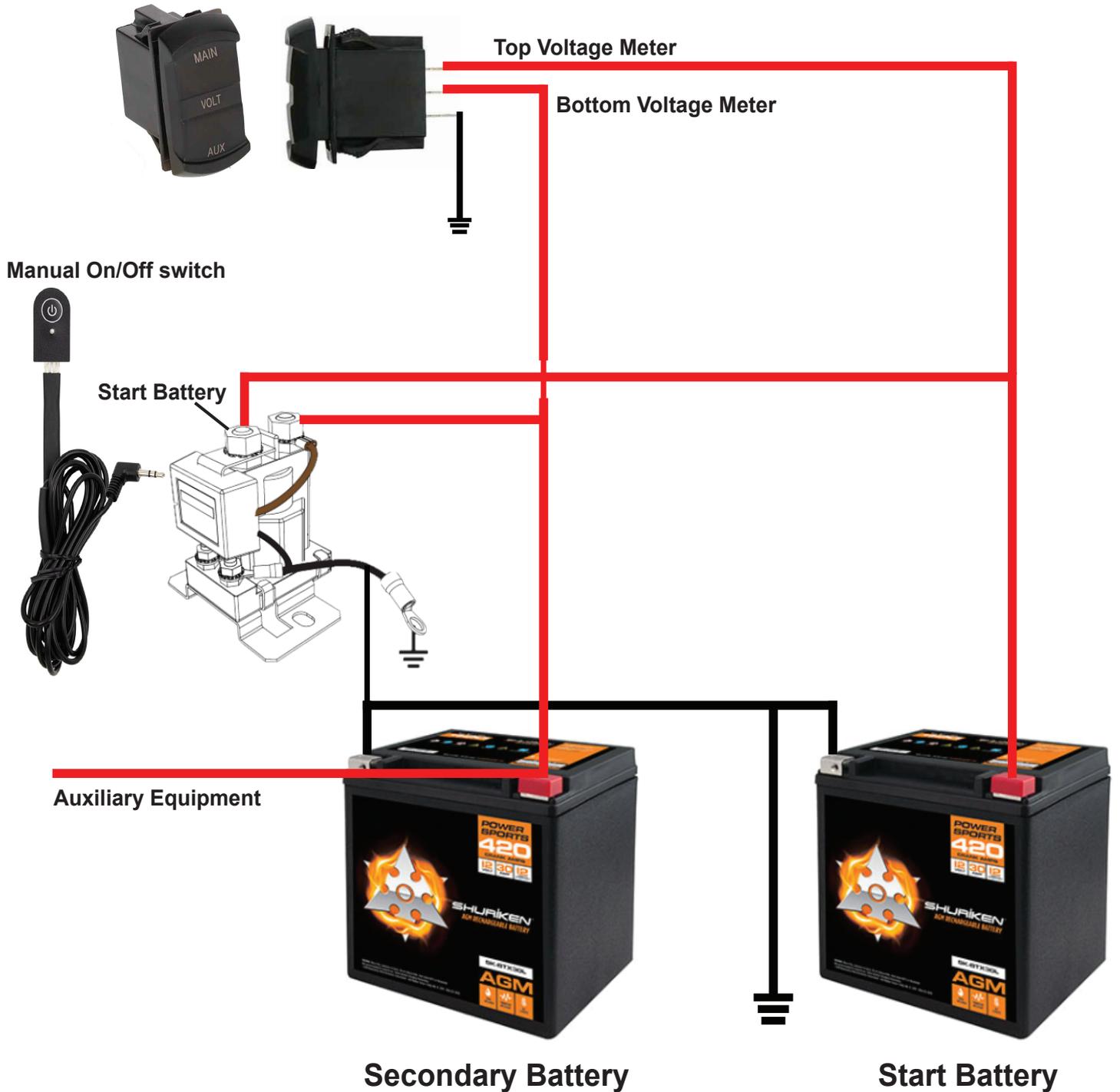
**Step 6:** Connect the black 6 AWG from the negative post of the secondary battery to your OE batteries negative post.

**Step 7:** Manual Start Switch (optional). Plug in the manual start switch into the 3.5mm jack. To manually operate the Smart Battery Isolator, press the manual switch and the isolator will manually operate for 60 seconds.

**Step 8:** Refer to the graphic to wire up dual voltage meter.



# Wiring Diagram



Shuriken Batteries sold separately



# MPS-DUALBTKIT

## INSTALLATION INSTRUCTIONS

#MetraPowerSports

### TIPS :

The LED may stay ON for a period after the vehicle is turned OFF. This is NOT a fault.  
Should a fault occur, the LED in manual switch is set to notify the operator of the fault. The LED will flash with the following sequences:

CODE 1	2 Flashes Over-Voltage	>15.5V
CODE 2	3 Flashes Voltage Drop	<12.7V

### FAQ:

Question: LED Stays on after vehicle is turned off?

Answer: The LED is on showing that the batteries are still connected. Once the voltage drops below 12.7V the smart isolator will disconnect the batteries and the LED will go out. Depending on the batteries charge this could take a few minutes to hours.

Question: You are experiencing constant switching from your isolator. Why is this happening?

Answer: Two possible reasons. First, the repetitive switching could be caused by a poorly charged second battery. This will put a larger load on the starting battery bringing the voltage down to below 12.7. Once the isolator sees the starting battery below 12.7V it will separate the two batteries to protect your starting battery. Without the load of the second battery the starting batteries voltage will increase activating the isolator. This is why you will hear the constant clicking. To fix this issue charge your secondary battery with a battery charger or replace if bad.

Question: The LED on my manual switch is flashing. What does that mean?

Answer: The flashing LED's on the manual switch indicate a fault. Refer to the chart above to find out what each code means.



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Having difficulties? We're here to help.

Contact our Tech Support line at:

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Or via email at:

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Tech Support Hours (Eastern Standard Time)

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