

Battery isolators



Protect engine starting power

Product description:

Designed by Sure Power™, battery isolators are solid state devices in a multi-battery charging system that help ensure engine starting power.

The battery isolators act as a check valve to prevent auxiliary batteries from draining the main battery.

When installed, isolators allow vehicle accessories to draw current from the auxiliary battery without affecting the battery used for engine starting. This frees up the vehicle's charging system so that the main and auxiliary batteries can charge and discharge according to the needs of their electrical loads.

Features and benefits:

- Suited for light truck, RV, select commercial and marine applications.
- Easily connects alternator to one main and one auxiliary battery.
- Includes wiring and hardware for basic installation. An optional installation kit is available for advanced installation.



Battery isolators prevent auxiliary batteries from draining main battery power in vehicle electrical systems.



Why batteries need isolating

Multiple batteries are often connected in an electrical system, one to start the engine and another to power accessories. This can become a problem when a fully charged battery is connected to a partially discharged or dead battery. The current in the fully charged battery will flow to the less charged battery, until both reach a common charge level, or even worse, discharge completely. Regardless of how many batteries are available, this current flow from one battery to another will continue until all batteries in the electrical system reach the same charge level and may prevent the engine from starting.

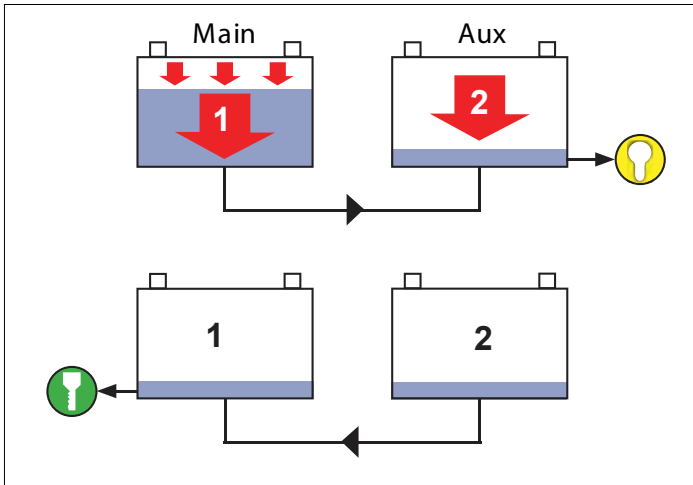
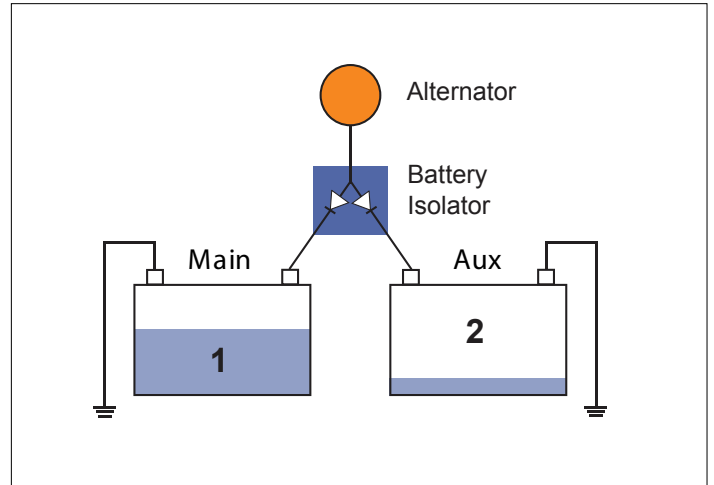


Illustration of multi-battery drain. Accessories connected to auxiliary battery #2 drain power from main battery #1 until both reach an equal state of charge.

Battery isolators ensure reliable engine starts

A battery isolator can eliminate the problem of battery drain altogether. A battery isolator acts as a check valve between the batteries to prevent current flowing from a battery with a full charge to one that is partially charged. Each battery is isolated and acts as an independent power source. This allows the main battery to conserve power even if the auxiliary battery is fully discharged. When charging, each battery determines the amount of charge it needs based on its own requirements. This control method is the best way of isolation.



When the engine is running, the alternator provides current to both batteries with equalized voltage while the battery isolator protects against parasitic current flow from one battery to the other.

Catalog number	Description	Model no.	Unit UPC	Unit dimensions (HxWxL)	Unit weight (lbs.)	Carton qty.	Carton barcode
RB-BI-70A	70A Battery Isolator w/wiring kit	702	051712494526	4.25" x 3.44" x 4.75"	1.574	12	70051712494525
RB-BI-95A	95A Battery Isolator w/wiring kit	9523A	051712404006	4.25" x 3.44" x 4.75"	1.574	12	70051712404005
RB-BI-120A	120A Battery Isolator w/wiring kit	12023A	051712404013	6.75" x 3.44" x 4.875"	2.538	8	70051712404012
RB-BI-130A	130A Battery Isolator w/wiring kit	13023A	051712404020	6.75" x 3.44" x 4.875"	2.538	8	70051712404029
RB-BI-240A	240A Battery Isolator w/wiring kit	24023A	051712494533	2.75" x 5.25" x 13.3"	4.98	4	70051712494532
RB-BIK-1882	Battery Isolator Installation Kit	1182	051712404037	4.25" x 3.44" x 4.75"	1.2	12	70051712404036
RB-GM-KIT	GM Delco CS Series	144-CD	051712404051	4.31" x 1.06" x 4.75"	0.174	18	70051712404050