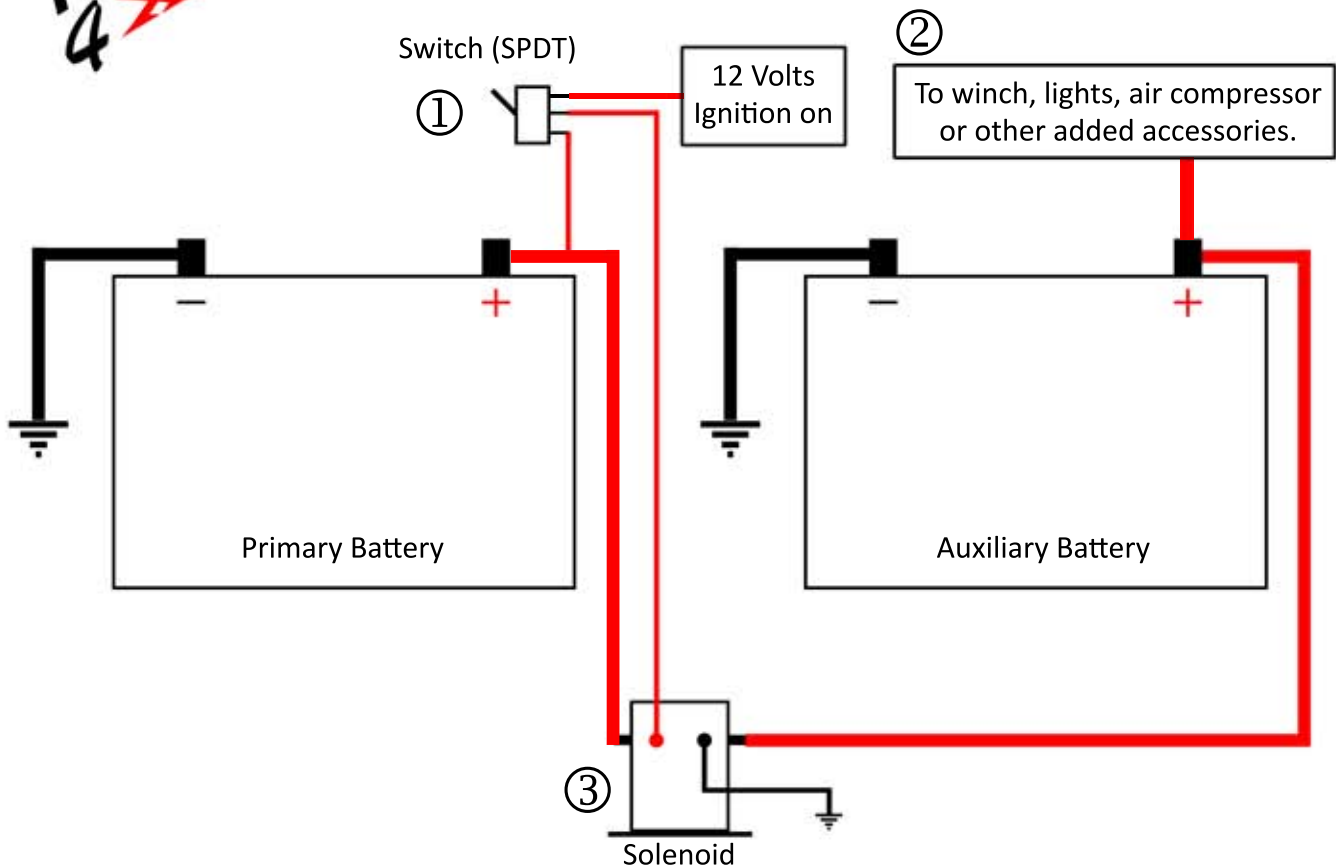




Basic Dual Battery Wiring Diagram



The set up shown is only a basic wiring diagram for a simple dual battery set up. There are multiple ways to accomplish the same thing. What you end up with will be determined by your vehicle, your needs and your budget.

1. The switch and solenoid connection to the primary battery can be eliminated and the wire to activate the solenoid can be connected directly to a 12 volt source that is only on when the ignition is on. This will disconnect the auxiliary battery from the primary battery to prevent discharge of the primary battery when using added accessories with the ignition off. Using the single pole double throw (SPDT) switch, as shown, allows you to manually connect or disconnect the auxiliary battery as needed or have it connect or disconnect with the ignition on or off.
2. The specific wiring set up will be determined by what accessories you connect to the auxiliary battery.
3. When using a solenoid both batteries should be identical as far as capacity and condition. Mismatched batteries can cause too much load on one of the batteries causing premature failure. Ideally the solenoid should be replaced with a battery isolator, separator, disconnect switch or other control device depending on your needs and budget.