TECH TIPS

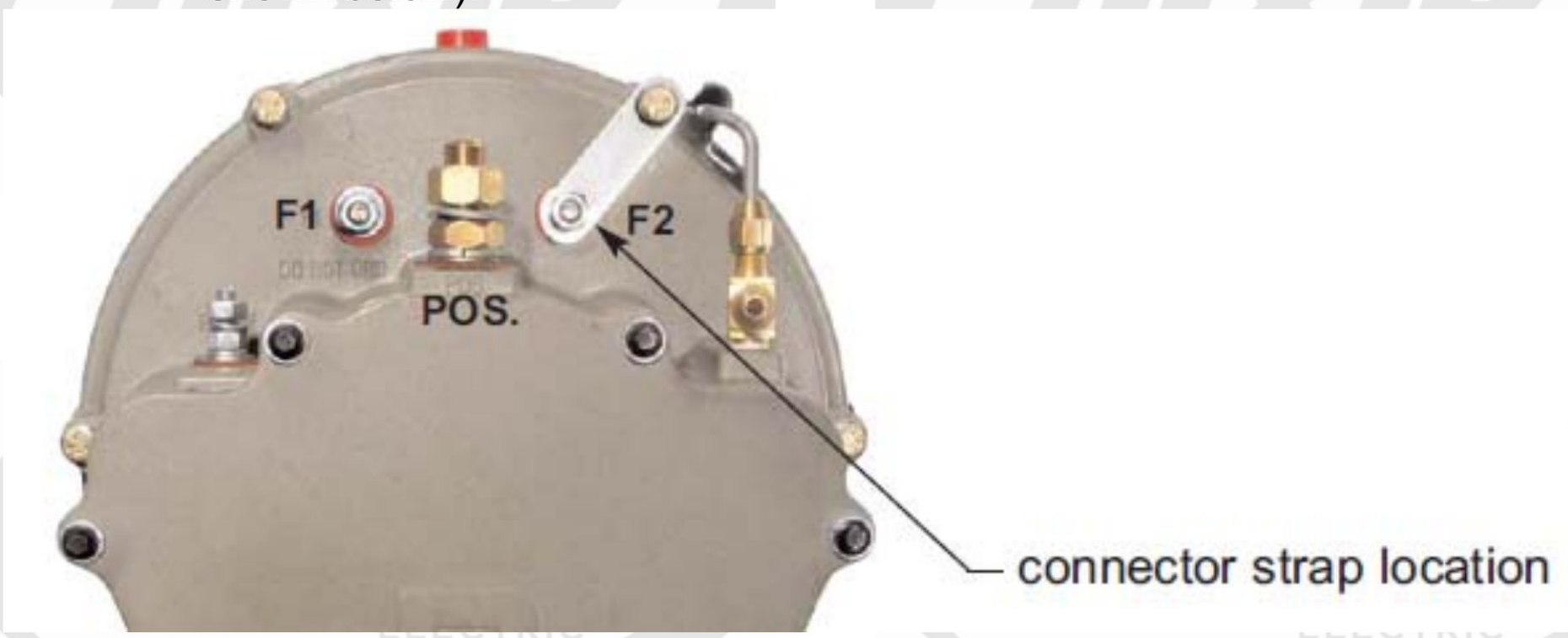
Dixie Part Numbers: A-1920 A-1921 A-1922 101-50212 101-50213 3501-5025 3501-5026

Applications: Transit/Coach applications with an alternator from the list below installed.
A-1920 A-1921 A-1922 101-50212 101-50213

Condition: The regulator requires replacing but did not work directly out of the box.

Cause: A possible cause for the above condition is that the alternator can be either A circuit (the regulator controls the ground circuit) or B circuit (the regulator controls the power circuit).

Correction: The above regulators **only** function with B circuit alternators (connection shown below).



Should the vehicle being worked on have an alternator that is an A circuit alternator, there will be a large strap connecting the B+ to the F1 terminals, the following steps must be performed:

- Remove the strap that connected terminals B+ and F1.
- Move the field wire from terminal F2 to terminal F1. Torque the nut to 60-70 lb in.
- Install a ground strap from terminal F2 to ground via the end frame bolt as shown above. Torque the end frame bolt to 56-85 lb in.

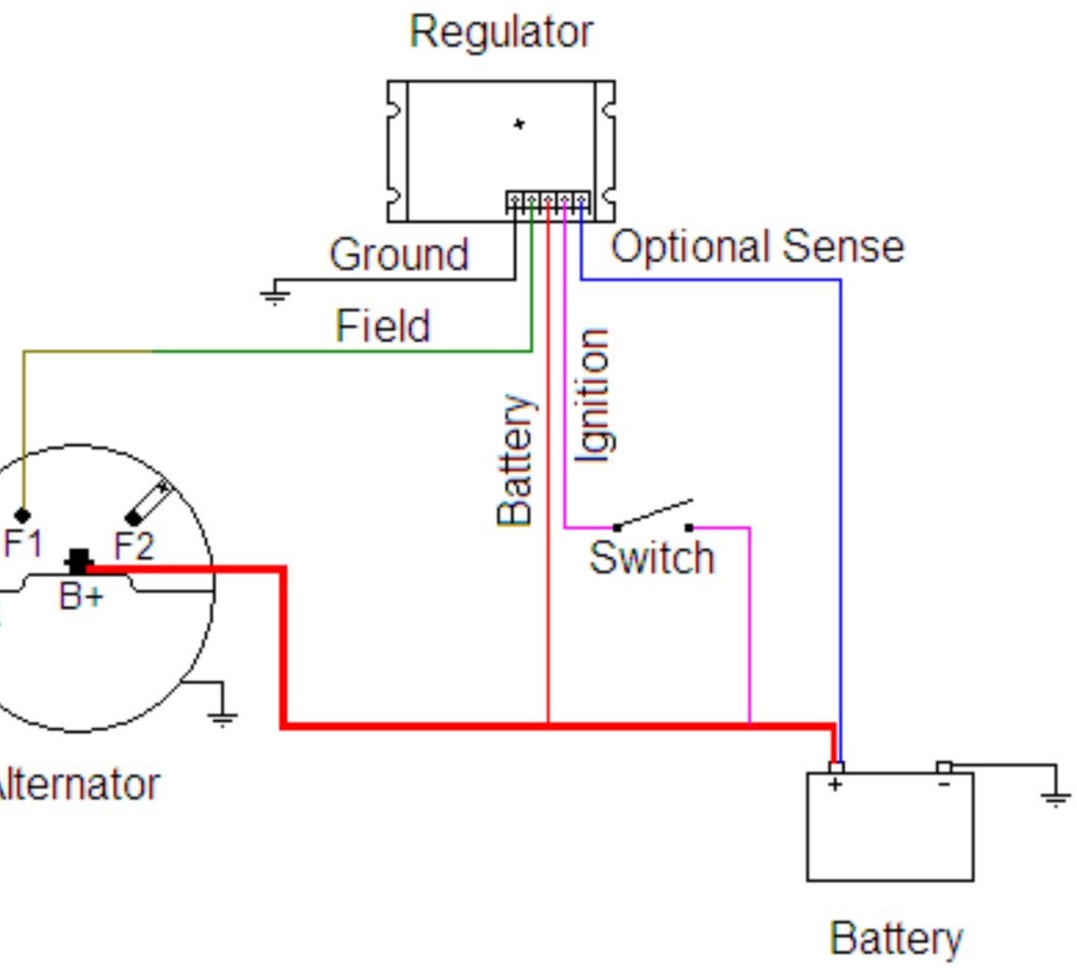
The remote sense is optional but the manufacturer recommends using remote sense anytime the battery cable is more then 10 feet in length. Attached are three typical wiring configurations to assist, should any trouble shooting be required.

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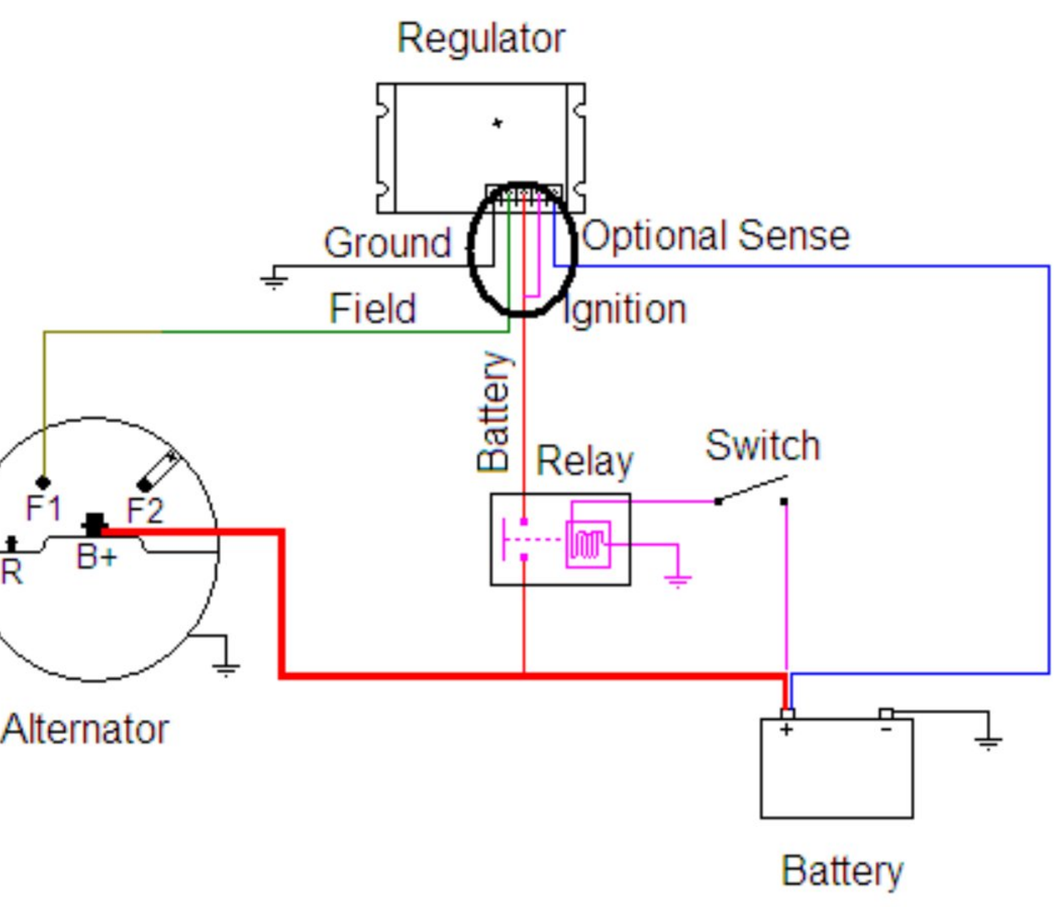
The first is when the application originally has no relay in the switch circuit, so the regulator would simply be changed and connected as shown.

Configuration with no relay



On some older applications there may be a relay present. To use the relay, the connections to the regulator must be done as shown below. Note the addition of the jumper wire between the battery and ignition terminals of the regulator.

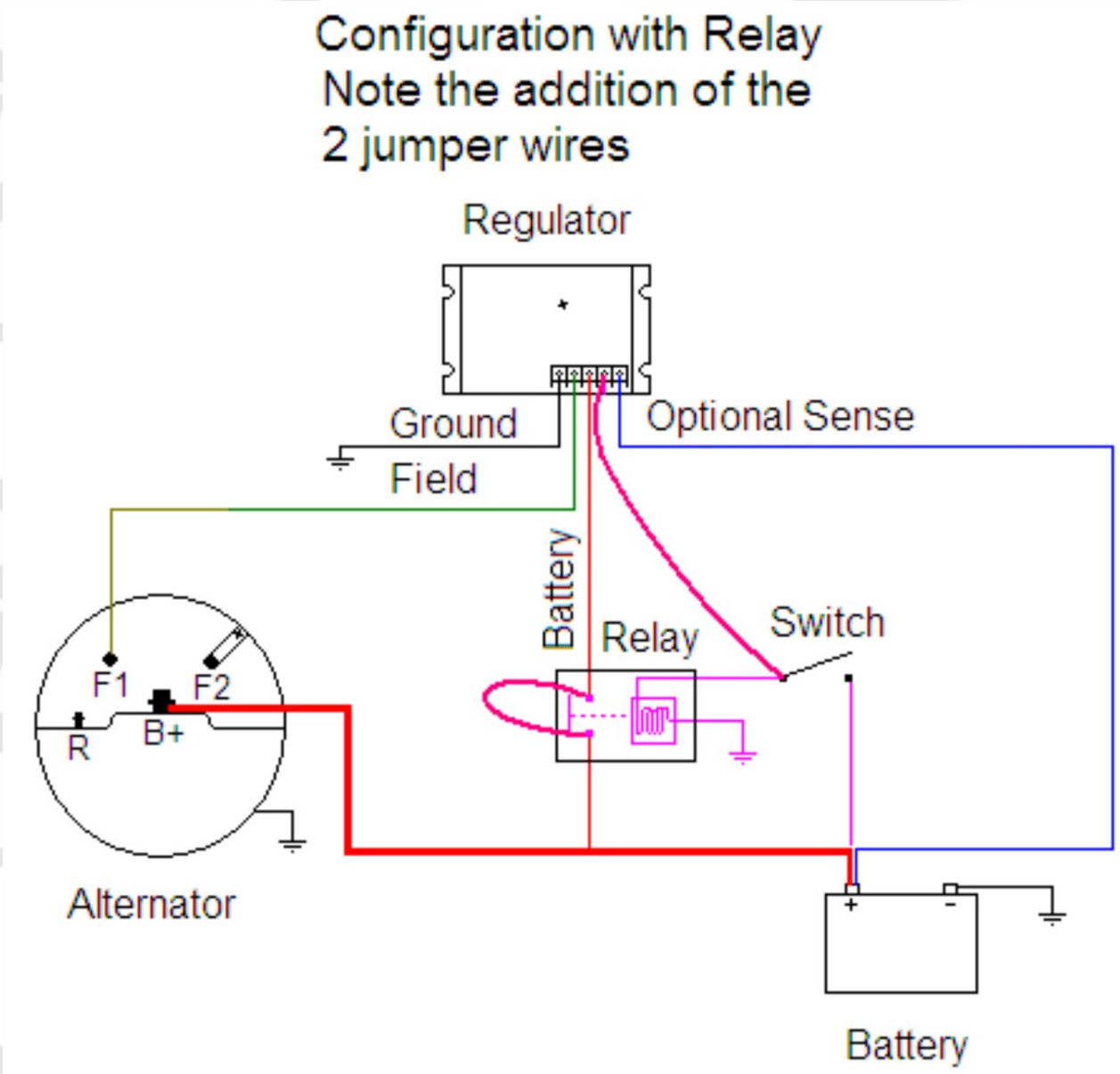
Configuration with relay
- note the jumper



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The relay can be by-passed by connecting the regulator in the configuration shown below.



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