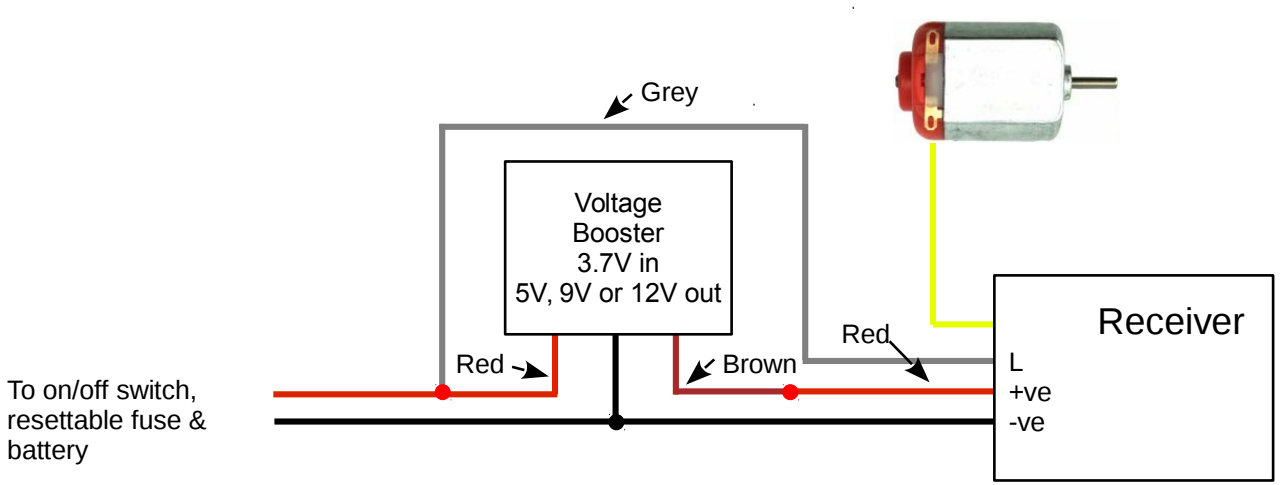
Single LiPo Cell With Small Voltage Booster and Micron Receiver

A voltage booster is ideal where there is insufficient space to fit a multi-cell battery. The booster must be placed between the on/off switch and receiver power input.

All Micron high voltage receivers have a LiPo monitoring pad, the ‘L’ pad. The receiver use this input to stop the motor when the LiPo cell reaches 3V. The receiver is still drawing a small current so it is also recommended to use a LiPo cell with an internal or external battery management system (BMS). This will disconnect the cell when the terminal voltage goes low (usually 2.6V – 2.7V) to prevent over-discharge. Most BMS will not reconnect until a charger has been connected. Use without a BMS and forgetting to switch off after use will almost certainly result in damage to the LiPo cell.

The booster can be used with a Micron switch/charge module or with a simple on/off switch. If using a Micron switch module and the loco does not have a front light, the receiver front light/LED2 output can be connected to the switch module’s orange wire to provide a receiver status indication. P1 is configured for LED2 on most receivers and, if Micron has fitted a lead-out wire, this will be orange.

The small boosters have a single black negative wire which is common to input and output, it must be joined with the black wire from the LiPo cell and the black wire to the receiver. The booster input has a red wire and the output has a thinner brown wire.



● = soldered wire connection

micron radio control

www.micronradiocontrol.co.uk
sales@micronradiocontrol.co.uk
+44 (0)1653 696008