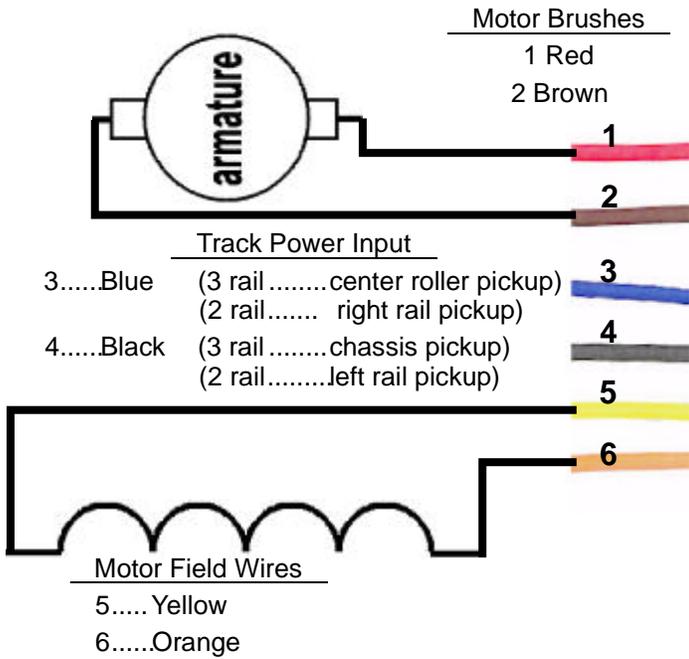


# Installation - Series Motor / Track connections

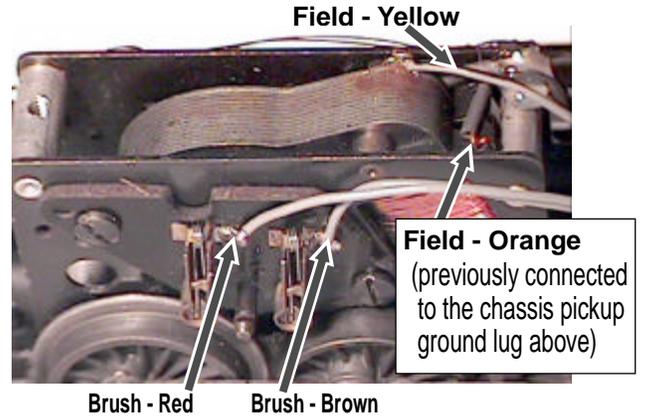
## Main Power / Motor Connections



If the engine does not have a chassis (outside rail) pickup from each truck you should add one to prevent intermittent track pickup from occurring. Adding multiple center rail pickups will also help.

**Help for Lionel series motors.** These pictures show where the grounded field wire needs to be broken from the chassis for the motor power. Picture is early Lionel. It is always better to add a ground wire to both outside rail pickups and the chassis. When more than one center roller is available always connect to both, also secure the center pin from rotating with the roller.

Colors indicated are those that match the E-Unit and LocoMatic™ Board main connector and not the locomotives existing wires.



**Help for Am Flyer series motors.** This picture shows where the wires are normally terminated. Colors indicated are those that match the E-Unit and LocoMatic™ board connector and not the locomotives existing wires.

Original type series motors.

Newer type series motors. Make sure the ground / chassis plates **do not** touch the brush motor tabs.

