

## M.L.Toys Performance Motors & Motor/ Gearbox Assemblies

### Installation & Use on Kid Trax & Roll Play Brand Vehicles

Just like when modifying a real car, modifying a ride-on car requires a mechanic who understands the job and a driver who understands the increased responsibility of driving a modified vehicle without damaging it.

Following the instructions below will cause your child to have a lot of fun and make the neighbor's kid jealous:

#### Installation:

1. Remove the rear tires and axle. Unscrew the necessary body panels to access the gearboxes.
2. Cut the motor wires as close to the motors as possible. Don't mix up the driver's side wires with the passenger's side wires. Strip back ¼" of the insulation on each wire. Lock the wires into one end of the orange/gray Power Distribution Clips (PDC), one in each tab.
3. Remove the screws from the gearbox housings and open them. Set the gears aside. Remove the screws holding the steel plate to the gearbox housing. Remove the stock motors from the steel plate.
4. Performance 550's (Stage I and II): Screw in the motors using the stock screws. Performance 775's (Stage III and IV): Screw the motors directly to the gearbox housing using the screws we provided through the larger screw holes now exposed and discard the metal plate.
5. If you're installing our Steel First Gears (Stage II and IV) simply remove the stock First Gear, slide a bearing, steel gear, then another bearing onto the shaft. Done.
6. Reassemble gearboxes and set them back in place.
7. Attach the motor wires to the motors. Test. If a motor spins backwards just reverse the wires in the PDC.
8. Secure to the car within 8 inches of the motors. If the wires bounce around the tabs on the motors tabs will break off which is fatal and not warrantied.
9. Put the car back together and go on to Break-in instructions.

#### Break-In Procedure:

It is critical to the durability of the motors to break them in properly. It will also give them a bit more speed! And it's simple: Prop up the rear end, put the vehicle in low speed forward, and let it run for at least 15 minutes for 550's, 25 minutes for 775's (time it). This will seat the motor brushes which keeps them from snapping or burning up. **It is not unusual for one side to run slower than the other or even stop during this process.** If one side stops completely then have your child drive the vehicle in low forward for the designated time, avoiding stopping as much as safely possible.

#### Driving Procedure:

While our gearboxes are the most durable designs out there, they're also way more powerful motors than what your car was designed for. And just like when driving a 500 horsepower automobile, if you don't drive it properly you can break it even when it's brand new.

DO NOT: Shift From Forward to Reverse or Reverse to Forward without stopping first. Exceed the weight limit of your vehicle. Drive in thick sod, long grass, off of curbs, down stairs, or hit immovable objects. Do not use Lithium Batteries or modify your tires.

DO: Challenge your friends to a race.

**Troubleshooting:** For common problems such as blowing fuses see the troubleshooting guide on the website.