M.L.Toys Performance Motors

Installation & Use on Peg Perego 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 responsibility of driving a modified vehicle without damaging it. Following the instructions below will cause your child to have a lot of enjoyment and make the neighbor's kid jealous:

Installation:

1. Remove the rear tires and axle. If your wheels are held on with cap nuts, only remove one. Slide the axle out of the vehicle. Unscrew the necessary body panel to access the gearboxes.
2. Unscrew the motors from the gearboxes.
3. If installing steel first gears: Open the gearboxes and remove the stock gears. On some gearboxes you will need to trim from either the nubs that stop the motor mount from sitting flush and/or the plastic ring that encompasses the stock motor. You may also need to trim inside the gearbox as shown in the picture. Easy to do. Then slide a ball bearing onto the first gear shaft, the steel first gear, then another ball bearing. Put the rest of the gears back in and close the gearbox.

4. 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.
5. Screw the motor mounts to the 775 motors using threadlock and the provided screws. Screw the new motor mounts to the gearcase using your original screws and threadlock. Set the motor/gearboxes back in place.
6. Attach the motor wires to the motors. Then insert them into the other side of the PDC. Test in low forward. If a motor spins backwards just swap the wires in the PDC.
7. Be sure the wires are secured to the car within 8 inches of the motors. If the wires bounce around in the compartment the metal tabs will break off of the motors which is fatal and not warrantied.
8. Put the car back together. If you are using our reusable wheel collars we recommend filing a flat spot on the axle where the set screw will contact.
9. If your car has circuit breakers rated less than 40 amps remove them and replace them with a 40amp fuse or one of our 40 amp breakers.

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 25 minutes (time it) with the same voltage you will run the car normally. 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 this happens then have your child drive the vehicle in low forward for the designated time, avoiding stopping as much as safely possible.

Driving Procedure:
These are way more powerful motors. And just like driving a 500 horsepower automobile, if you don't drive it properly you can break it even when brand new.
Do not use Lithium Batteries or modify your tires.
Do not shift From Forward to Reverse or Reverse to Forward without stopping first
Do not exceed the weight limit of your vehicle.
Do not drive in thick sod, long grass, off of curbs, down stairs, or hit immovable objects.
DO: Challenge the neighbor's kids to a race.

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

Motor Break-in video

Gearbox Greasing Video