

## M.L.Toys Monster Jam Grave Digger Motor Upgrade Package

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 enjoyment and make the neighbor's kid jealous:

### Installation:

1. Unplug your battery. Remove the cover over the 30 amp fuse in the battery. Insert our 40 amp fuse. Put the fuse cover back on.
2. On the bottom of the vehicle is a plastic wire cover running the length of the truck. Remove the silver screws holding that in and locate the 30 amp circuit breaker toward the front of the wire run. It's a 1" square black box with 2 red wires coming out of it. Cut the wires close to the breaker. Strip 3/8" of insulation from both ends, insert them into the provided blue butt connector, and crimp both ends. The breaker is not needed with the fuse at the battery. Replace the wire cover.
3. Raise the back of the vehicle and secure it. Remove the wheel nuts (1/2" wrench), wheels, and axle. Remove the 2 screws that lock each of the gearboxes in place. Unplug the motors and remove the motor/gearboxes.
4. Remove 6 screws holding the gearbox cover and the 3 screws holding the green pipe. Remove the 2 motor mount screws. The motor will now come out.
5. Cut the wires as close to the motors as possible. Strip back 1/4" of the wire insulation on each wire and clamp them into the gray/orange motor connectors. Attach adjacent to each other at one end of each connector.
6. Install the new motors using the original motor screws.
7. Re-assemble and install the gearboxes the same way they came out.
8. Put the provided wires into the other end of the gray/orange connectors. Red across from red, black across from black. Then attach to motors. Red wires to the side of motors with red dots.

### 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 (time it). This will seat the motor brushes which keeps them from snapping or burning up. It is normal for one side to run slower than the other during this process. If one side stops completely then have your child drive the vehicle in low forward for 15 minutes, 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.

Drive in thick sod, long grass, off of curbs, down stairs, or hit immovable objects.

The added weight of a passenger may cause fuses to blow.

DO: Challenge your friends to a race.

**Trouble Shooting:** For common problems such as blowing fuses see the trouble shooting guide on the website.

