



## **Compatible Controllers**

This motor is engineered to work with stock factory controllers and aftermarket controllers programmed with a custom, motor-specific field map. Using an improperly programmed aftermarket controller may result in motor damage and void all warranties.

## **Break-in Period**

New electric motors require a "break-in period" to ensure the brushes properly seat against the commutator. Following this process will help extend the lifespan of your electric motor.

## **Guidelines for Breaking-in an Electric Motor**

Breaking in an electric motor is a straightforward process that ensures optimal performance and longevity. Follow these steps carefully:

### **1. Initial Drive:**

Drive the vehicle for 8–10 miles at varying speeds, taking care to accelerate gently during this period.

### **2. Temperature Monitoring:**

- Drive on a level surface, such as pavement or asphalt. Gradually accelerate and maintain full speed for 5–10 minutes. Then, stop and check the motor temperature.
- During the first 30 minutes of use, check the motor temperature every 10 minutes. To do this, touch the center section of the motor near the aluminum end bell (silver component).

## ***How-to Check Temperature:***

- If the aluminum end bell is too hot to touch, stop using the motor and allow it to cool down.
- If you can hold your hand on the motor for more than 5 seconds, it is safe to continue driving for a few more miles before rechecking the temperature.

*Repeat steps 1 and 2 until the 8-10 mile break-in period is completed and the motor operates at a cooler temperature. Following this process will help ensure your electric motor is properly conditioned for long-term use.*

**CAUTION:** Exercise caution while checking the motor. Avoid touching any exposed electrical connections while the power is on.

**NOTE:** Speed and torque will improve as the brushes establish better contact with the commutator. A cooler-running motor operates more efficiently, allowing the cart to be driven at normal speeds.