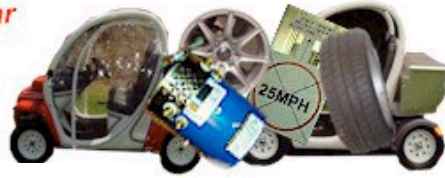




#1 Direct Source 4 GEM Car  
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631-544-9572



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## 7.5HP Motor Installation Instructions

Congratulations on your purchase of a Ride-4-Fun 7.5HP motor. This product is designed to provide you with years of GEM car driving performance and the notes below will assist you with a trouble free installation. In addition instructional videos to assist in segments of the installation process are available online at [www.ride-4-fun.com/instructions](http://www.ride-4-fun.com/instructions).

Installation of your new motor is a 2-part process.

1. The first part of the process is the actual motor installation, which includes making sure the motor is functioning correctly. This is important because if there are any unknown issues we want to be able to isolate them prior to controller reprogramming.
2. The second step is the controller reprogramming which will happen once the motor is installed and running correctly.

### First step; Getting Started installing your new motor

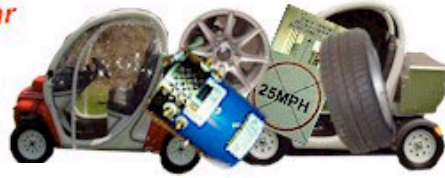
1. **Turn off the main power switch.** On pre 05' models the switch is located under the seat, while on newer models it is located under the dashboard. On 05' and newer models we recommend removing any battery cable. Please note failure to turn of the batteries may result in controller damage.
2. Removal of the front tires will provide easier access for motor removal and installation.

### Removal of Old Motor

1. From the passenger side, disconnect the speedometer by opening the male/female 3 pin connector. This procedure can be viewed in the 7.5HP videos from the Ride-4-Fun online installation page at <http://www.ride-4-fun.com/instructions>
2. From the passenger side, On 03' or later models, disconnect the overheat sensor which is flat 2-pin plug. This procedure can also be viewed in the 7.5HP videos from the Ride-4-Fun online installation page at <http://www.ride-4-fun.com/instructions>
3. From the passenger side, remove all electrical connections from the old motor. This includes; armature 1 & 2, and Field 1 & 2 (as labeled on wires and motor).
4. From the drivers side, remove the 3 bolts (7/16") that hold the motor to the trans-axel.
5. Take notice of the position of the terminals, as the new motor will need to be installed in the similar position.
6. Slide the motor back an inch and it can be removed from the vehicle - **Use caution, as the motor is heavy.**
7. With old motor out of the vehicle, remove the black rubber bushing, which is located at the bottom of the female splinted shaft.



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### Installation of 7.5HP Motor

1. Apply "Blue" loctite to the 3 motor bolts and let cure for 10 minutes.
2. Seat bushing that was removed from old motor into the same location on the new motor.
3. Line-up the motor and position on the splinned trans-axel shaft. Motor should be positioned so the terminals are in a similar position as the old motor. The body of the motor can be twisted from left to right to allow for alignment with the mounting holes.
4. Install the 3 bolts that attach the motor to the trans-axel. Bolts only need to "wrist tight" as the loctite will harden and provide a secure fit.
5. Install armature and field connections - Warning, do not over tighten the 4 brass posts.
6. On 2004 and older GEM cars; reconnect the 3 wire speedometer connector and continue to step 7. On 2005 and newer; the speedometer magnet needs to be changed. This is accomplished by taking out the 2 #10 torque screws on the side of the motor, thus removing the small black cap that the speedometer wires are attached to. Once the cap is off there will be a circular magnet held in by a 4 mm allen bolt. The magnet is about an inch in diameter and is a black/dark brown in color. In your motor package, you will have a white envelope, which contains the required replacement magnet. Simply remove the 4 MM allen bolt in the center of the circular magnet and switch the magnet with the new one provided. **There is no in or out side to the magnet, there also is no difference in the appearance between the 2 magnets so be sure they don't get confused.** Apply "Blue" loctite to the allen bolt and install the new magnet hand tight. This procedure can be viewed in the 7.5HP videos from the Ride-4-Fun online installation page at <http://www.ride-4-fun.com/instructions>
7. **Important note:** On the original motor there was a wire holder holding the 3 wires and connector tight to the side of the motor. The reason it is there is to hold the wire close to the motor and avoid it being hit by the tire. This wire holder must be put back onto the new motor. If it was missing you can just pull the wires tight on the side and use a zip tie on the top of the motor attaching them to anything solid.
8. On 03' and newer models, the 2-pin plug will need to be "shorted out". The over heat sensor is no longer required with the use of the Ride-4-Fun motor which is ventilated and does not require the heat sensor. This can be done by using a jumper wire between the two wires or simply cutting off the plug and connecting the 2 wires together and taping them. Do not short the wires out to the frame of the car as it can cause controller damage. Failure to jump the wires on 03' or newer models will cause the vehicle to operate in slow mode only. This procedure can be viewed in the 7.5HP videos from the Ride-4-Fun online installation page at <http://www.ride-4-fun.com/instructions>
9. Reinstall tires, turn on battery switch and reconnect any disconnected battery cable.
10. Run the car. It should run as strong as or stronger than it did before without doing anything to the controller. Only after this check, is it time to move to the second step. We want you to be 100% satisfied - If the car does not function correctly at this point do not hesitate to call us.



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## Second step; Controller reprogramming

### Congratulations!

*Now that you have successfully installed your motor it is time to get the most out of it by reprogramming the controller.*

It has been said "a picture can be worth a thousand words" so for this portion of the instructions we ask that you kindly review our step by step online controller removal/installation videos at <http://www.ride-4-fun.com/instructions> . However, please continue reading the remaining instructions before proceeding to the online instructions – thank you.

There are 2 different controllers used in GEM cars, therefore there are 2 different sets of removal/installation video instructions - 2005 and newer, and 2004 and older.

When you go to the instruction page, [www.ride-4-fun.com/instructions](http://www.ride-4-fun.com/instructions), please follow these simple steps to ensure a smooth controller removal/installation process:

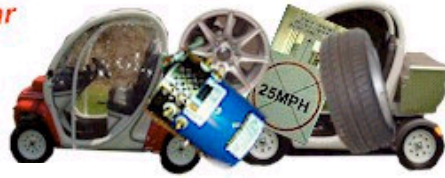
- Select the controller removal instruction link that pertains to your year GEM car. Note that links exist for:
  - GEM car controller removal from a 2004 and older GEM car
  - GEM car controller removal from a 2005 and newer GEM car
- The pictures and the location of the controller, which can be viewed from the online instruction page, will help confirm that you're following the correct set of instructions.
- Once your controller has been removed it must be sent to Ride-4-Fun for reprogramming.
- Please fill-out the custom controller Re-Programming form, which is the last page of this document. This form must be included with your controller when you send it to Ride-4-Fun for reprogramming
- Pack you controller in secure packaging and send it to:

Ride-4-Fun  
84 Manchester Lane  
Stony Brook, NY 11790
- For shipping we recommend that you don't require a signature on delivery as it may delay processing of our controller. UPS visits Ride-4-Fun daily, if it's convenient, we recommend that you use this carrier - however we accept packages from all carriers.

If there are any questions after this review do not hesitate to call a Ride-4-Fun product specialist.



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## Custom Controller Re-Programming Form For 7.5HP Motor Installation

### Instructions

To ensure proper handling of your controller and accurate custom programming this form must be filled out and shipped with your controller.

### Your Address

Please provide the address of where you like your re-programmed controller returned to:

Your name \_\_\_\_\_ Phone Number \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

### Programming Information

Tire Size (check one):	Terrain (check one):	Max Speed (indicate)
<input type="checkbox"/> Stock 10"	<input type="checkbox"/> Flat	_____ MPH
<input type="checkbox"/> Stock 12"	<input type="checkbox"/> Hills	
<input type="checkbox"/> 14" tires	<input type="checkbox"/> Varied	
<input type="checkbox"/> 16" tires	<input type="checkbox"/> Off road	
other _____		

### Other Information

Please provide any other information related to the use of your GEM, which we can consider in the programming (i.e., distance traveled, heavy loads, etc.)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

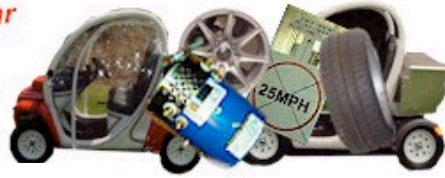
### Shipping

Your controller with this form must be shipped to:

**Ride-4-Fun**  
 84 Manchester Lane  
 Stony Brook, NY 11790

**Ride  
-4-Fun**

**#1 Direct Source 4 GEM Car  
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&  
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ride4fun@optonline.net  
631-544-9572



**Visit us online @ [www.ride-4-fun.com](http://www.ride-4-fun.com)**

You can choose any shipping method, however we strongly recommend you don't use a shipping service which requires signature (such as US Postal Service) – Requiring a signature can delay processing – we recommend UPS as they deliver everyday to Ride-4-Fun.

**Ride  
-4-Fun**