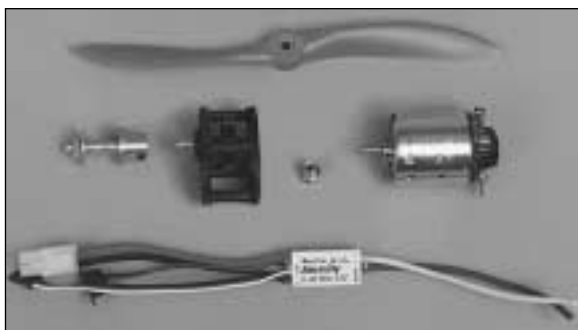




S-600GD SYSTEM WITH ESC S-600GD SYSTEM



Assembly and Operation Instructions

If any parts are missing, broken or defective, or if you have any questions about the gear drive or motor please call us at (217) 398-8970 and we'll be glad to help. If you are calling for replacement parts for the gear drive, please look up the part numbers in the gear drive instructions and have them ready when calling.

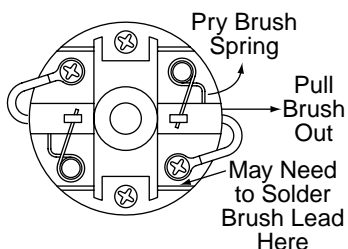
Motor Selection

The motor supplied in the S-600GD power package is a Great Planes S-600R reverse rotation motor specifically designed for the use with the Great Planes GD-600 Gear Drive and 15 tooth pinion. This provides a 3.0:1 gear ratio that will turn a 9x8 prop between 7,500 and 8,000 rpm when powered by an 8.4 volt battery. Operating the S-600R motor at a higher voltage will significantly shorten the motors life.

Motor Care

The S-600R comes with two high quality ball bearings that will last the life of the motor. Unlike less expensive motors with bronze bushings, the ball bearings do not need to be oiled every few runs.

The motor brushes installed in the S-600R will last many flights before needing replaced. Replacement brushes and brush springs are available from most major motor manufacturers. To replace the brushes, use a small screwdriver to pry the motor springs out of the brush holders. Remove the screw holding the brushes and carefully pull the brushes out of the brush holders. Remove the motor from the geardrive and clean the inside of the motor with a quality motor cleaner such as Duratrax® Power Shot Electric Motor Cleaner Spray (DTXC2458). To install the new brushes, insert the brushes in the brush holders and attach the end of the brushes to the endbell using the screws previously removed. Some of the replacement brushes may not have an eyelet to attach the brush to the endbell. In this instance, the end of the brush should be soldered to the endbell. Use a small screwdriver to replace the motor brush springs in the brush holders. Do not allow the brush springs to snap against the brushes. This can cause the brushes to chip or crack.



After replacing the motor brushes, it may require two or three motor runs before the brushes are seated against the commutator completely and the motor is producing full power.