

MPI Planetary Gear Box

High Power, All Metal, Dual Ball Bearing

Introduction:

Congratulations on your purchase of the MPI Planetary High Power Gear Box! This light weight, compact gear box is designed for Speed 400. Two pinion gears are included to suit varieties of applications.

Key Features:

- Dual ball bearing,
- Light weight, compact, all metal design,
- 2 pinion gears included for different motor shaft sizes

Specifications:

	ACC4033	ACC4034	ACC5033	ACC5034
Gear Ratio	3.33:1	4.28:1	3.33:1	4.28:1
Motor Shaft dia.	2.3mm, 3.17mm(.125")		3.17mm(.125"), 5/32"	
Output Shaft	5mm			
Mounting pattern	16mm		16mm, 25.4mm	
Power (Max)	800W			
Weight (Approx)	57g (2.0oz)		59g (2.1oz)	

Installation Instructions:

The gearbox is shipped assembled but requires some final assembly. It is recommended that any threaded parts be secured with thread locker. Standard blue Loctite 242 or any removable thread locker is suitable for securing the screws that mount the backplate to the motor and the gearbox to the backplate.

Assembly:

1. Clean the threads on the bearing housing and backplate prior to assembly.
2. Verify motor shaft length by placing the backplate on the motor and insert the green plastic alignment tool over the motor shaft. The motor shaft must not extend beyond the alignment tool. If the motor shaft protrudes it must be shortened to allow installation of the gearbox.
3. Using the correct screws mount the backplate to the motor. Be sure that the screws are not excessively long as this may damage the motor. Check the instructions for the motor to verify maximum screw depth. Install the alignment tool over the motor shaft and into the center bore of the back plate. Secure the backplate with screws, using thread locker.
4. The pinion gear is installed on the motor shaft next. The supplied pinion gears are glue-on rather than press fit. Clean the gear and shaft of dirt and oil. Apply the supplied adhesive to the shaft. The pinion gear should be installed so the bottom of the gear is flush with the top of the backplate. The pinion gear must be left to cure for 24 hours prior to use. The supplied adhesive is a permanent type, and should not be used for the mounting screws, if they are to be removed at a later time.
5. A small amount of light high-temperature (300°C) grease is added to the gears. Excessive amounts of grease will result in lower efficiency.
6. Finally install the gearbox housing to the backplate, using a removable thread locker. Run the motor at low power to check that everything is working well. The gearbox should run quietly without any vibration.

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