



MP JET ELECTROMOTOR AC 26/45-18 D Car

We thank you for having bought our product and hope that it will quite comply with your requirements. We recommend you to study this instruction. Observance of the directions stated here will ensure you operating without problems, achieving of a good output and a corresponding service life of the engine.

TECHNICAL SPECIFICATION OF ELECTROMOTOR

- three-phase AC synchro motor
- dual ball bearing with long life grease
- high speed ball bearings
- two pole rotor - single piece FeNdB type
- FeNdB magnet
- toroidal Delta coil winding
- winding directly under aluminium body for better cooling
- one part body turned from bar stock on CNC machine
- black anodized surface
- heat treated shaft
- high quality MP JET gold 2,5 mm connectors

Recommend regulator: three-phase, sensorless (with EMF detection version), suitable version 60A (on the score of acceleration peak)

Recommend pinion wheels: 3,17 mm dia. It is recommended to use the pinion wheels with number of tooth about one under is number of tooth, which your car to use with DC motor.

ASSEMBLY ELECTROMOTOR TO THE CAR

The flange screw down on the electromotor with screws M3x6. This screws secure with thread locking adhesive. Put on the shaft the pinion wheel and set please pinion wheel in correct axial position. If need be it is possible the pinion wheels mount in reverse position - hub from motor, tooth towards flange. Electromotor with flange and pinion wheel put in the correct place in body of the car and fix with two screws M3. Do not remember adjust the tooth play in accordance with instructions to your model car. It is very recommended to use the heatsink radial for AC 26/45 (MPJ 8232). Before attaching of the heatsink please take down the label from electromotor. Be cautious at manipulation with the motor cables.

CONNECTING ELECTROMOTOR TO REGULATOR

The electromotor has cable wires with male part of connectors (MPJ 21020). Female parts with shrinking isolations are included in the package and must be soldered to regulator output cables. Connectors must be disconnected by being pulled from the connector parts, without applying any force on the cable (or being pulled from the motor unit).

COOLING

Because the cooling in model car is not always good, advise adhere following instructions:

- as far as it is not inevitable, not have the covers that would defend supply air cooling to electromotor.
- it is necessary circumspection at election of a number of tooth pinion wheel. Starting always with higher gear ratio (= smaller number of tooth) and take control of motor temperature. Using pinion wheel with overly high number of tooth unincreased maximum speed of car, but only to overheating of motor. The gear ratio must be suitable to character track, the type of your car, the same gear ratio like for ride on asphalt.

The producer notice that at unrespected these regularity reach the thermic damage of motor on which it is impossible apply the warranty.

MAINTENANCE OF ELECTROMOTOR

The ball bearings have a longlife high quality grease, they can be changed if necessary. Avoid penetration of dirt or water into the electromotor.

IMPORTANT SAFETY ADVICE

- make sure that the onlookers stay at a safe distance when the motor runs
- first switch on your transmitter, check the position of the throttle stick (and related switches if there are any). Only then connect your power pack to the speed controller and switch on the receiver.
- ride with your car only a suitable place - out of road traffic
- follow the manual of your regulator
- do not use the motor for other applications (non modeling use).
- this position product and this manual are subject to change without notice

GUARANTEES

All electromotors are controlled and tested before purchase. Full guarantee for manufacturing and material defects is valid one year from the purchase date. The guarantee covers none of the following:

- improper mounting and overheating
- using the motor for other purposes than recommended
- transcendence of maximum operation parameters
- mechanical damage produce (breakdown, dismantling)
- periodic maintenance and repair or replacement of parts due to normal wear
- pollution (water, colour, foreign subjects, corrosion)
- repair costs by non-authorized services or the customer himself

NOTICE

The electromotor has a relative high rpm per Volt. Therefore, do not connect this motor without load to voltage bigger then 15 V because it could be damaged easily when exceeding maximum rpm.

Number of cells	6
RPM per Volt	3300
Maximum recommend speed (min ⁻¹)	40000
Maximum speed (min ⁻¹)	45000
Maximum efficiency (%)	approx. 81
Current for maximum efficiency (A)	15-28
Short time current (A)	40
Internal resistance (mΩ)	33
Dimensions - diameter/ length (mm)	26/45
Shaft diameter (mm)	3,17
Number of turns	18
Weight of electromotor (g)	124
Recommend gear ratio of car	1:10