

# LIGHTLY-TUNED motor



## HOP-UP OPTIONS NO.983

The Lightly-Tuned Motor (28T) is a high performance electric motor featuring replaceable brushes (standard type) to ensure a long running life. The end bell features special vents for maximum motor cooling and incorporates a detachable in-board capacitor.

● Break-in new brushes by running motor without loads on a 3V power source for 5-10 minutes. After installing into chassis, warming-up motor by running on a 3V power source for about 5 minutes is recommended to extend motor life.

## ROTATION DIRECTION

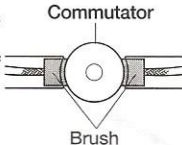
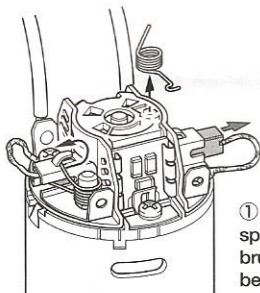
Make sure the rotation direction of the motor is correct. The rotation direction of the motor is counter-clockwise when viewed from the pinion gear end. Running the motor in the opposite direction will result in reduced performance.



## REPLACING BRUSHES

If the brushes are worn as shown, replace them.

★ Check brushes after use of 5 - 10 full battery packs.



GEAR RATIO  
M-chassis  
5.52~6.44  
Touring car  
6.5~7.5

① Remove brush springs. Then remove brushes from the end bell.

★ For replacement brushes, use 53581 Racing Motor Brush Set (Standard Type).

## CAUTIONS WITH RUNNING THE MOTOR

● Make sure to replace plastic bearings with ball bearings. Plastic bearings cannot endure motor rotation.

● Continuous running will damage the motor. Let the motor cool after each full battery run.

● Never overload the motor. Make sure that all the gears and rotating parts move smoothly to prevent motor burn out.

● To fully realize motor performance, grease motor pivots with metal oil.

● Never cover the motor. Covering will hinder

heat dissipation resulting in damage.

● If motor gets damaged or over-heats, performance will deteriorate.

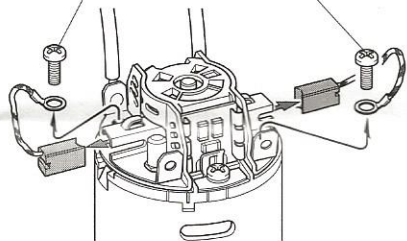
● Periodically clean and maintain motor after running it.

● Use only genuine Tamiya spare parts.

Brush Spring (2 pcs.) : 7405079

Racing Motor Brush Set (Standard Type) : 53581

② Loosen screws and remove brushes as shown.



★ Reverse the procedure for installation.

● When replacing brushes, make sure to inspect the commutators as well. For cleaning commutators, 53486 Commutator Cleaning Brush Set is recommended for convenient and thorough cleaning.

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