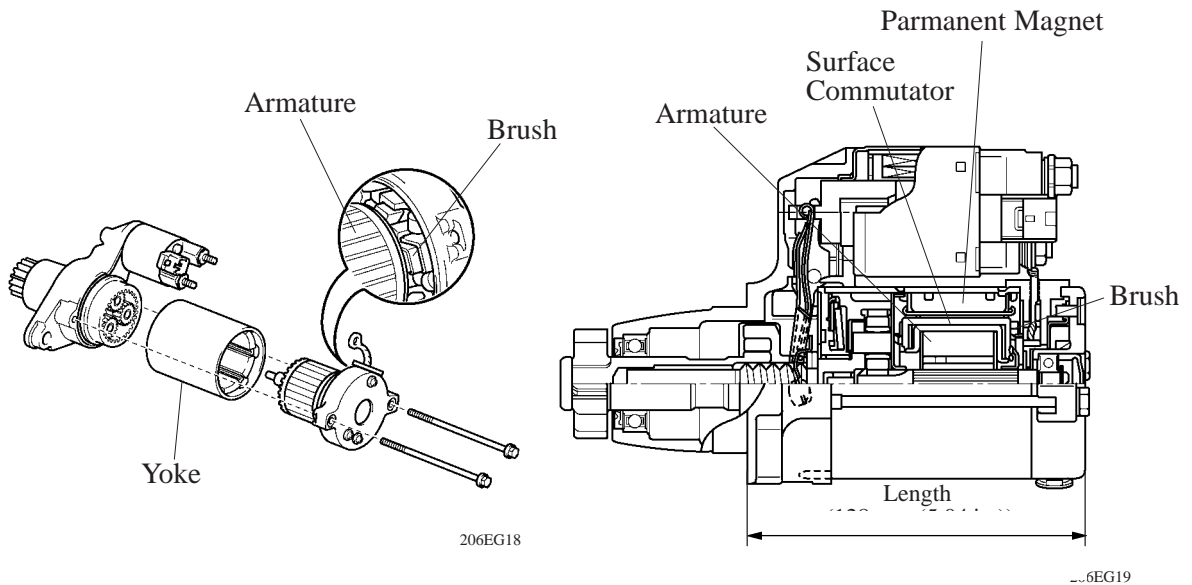


## STARTING SYSTEM

### Starter

#### 1) General

- The automatic transaxle model has adopted a compact and lightweight PS (Planetary reduction-Segment conductor motor) starter. The manual transaxle model has adopted the conventional starter.
- Because the PS starter contains an armature that uses square-shaped conductors, and its surface functions as a commutator, it has resulted in both improving its output torque and reducing its overall length.
- In place of the field coil used in the conventional starter, the PS starter uses of permanent magnets.



PS Starter

#### ► Specification ◀

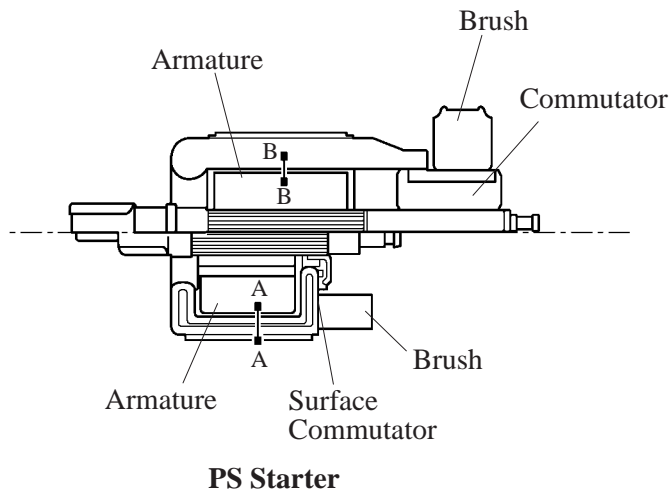
Model	PS Starter (Automatic Transaxle Model)	Conventional Type Starter (Manual Transaxle Model)
Length	128 mm (5.04 in.)	134 mm (5.28 in.)
Weight	2900 g	3550 g
Rating Voltage	12 V	12 V
Rating Output	1.3 kW	1.2 kW
Rotating of Direction	Counter Clock Wise*	Counter Clock Wise*

\*: Viewed from Pinion Side

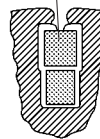
## 2) Construction

- Instead of the construction of the armature coil of the conventional starter that uses round-shaped conductor wires, the PS starter uses square conductors. With this type of construction, the same conditions that are realized by winding numerous round-shaped conductor wires can be achieved without increasing the mass. As a result, the output torque has been increased, and the armature coil has been made more compact.
- Because the surface of the square-shaped conductors that are used in the armature coil functions as a commutator, the overall length of the PS starter has been shortened.

### Conventional Type Starter



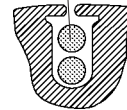
Square-Shaped Conductor



A - A Cross Section

PS Starter

Round-Shaped Conductor Wire



B - B Cross Section

Conventional Type Starter