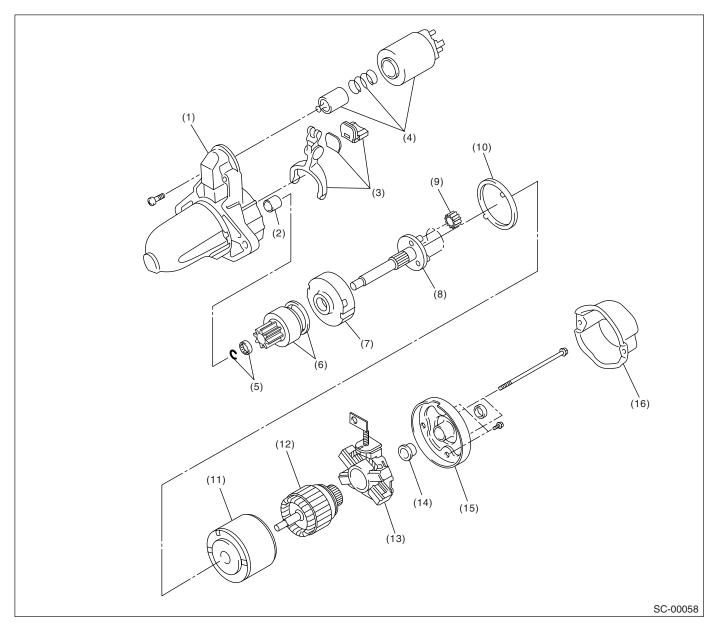
1. General Description

A: SPECIFICATIONS

Item			Designation	
Starter	Туре		Reduction type	
	Vehicle type		MT vehicles	AT vehicles
	Model		M000T30471	M000T20171
	Manufacturer		Mitsubishi Electric	
	Voltage and output		12 V — 1.0 kW	12 V — 1.4 kW
	Direction of rotation		Counterclockwise (viewed from pinion gear side)	
	Number of pinion teeth		8	9
	No-load charac- teristics	Voltage	11 V	
		Current	95 A or less	90 A or less
		Rotating speed	2,500 rpm or more	2,000 rpm or more
	Load character- istics	Voltage	7.5 V	7.7 V
		Current	300 A	400 A
		Torque	8.84 N (0.90 kgf, 1.99 lb) or more	16.7 N (1.70 kgf, 3.75 lb) or more
		Rotating speed	870 rpm or more	710 rpm or more
	Lock character- istics	Voltage	4 V	3.5 V
		Current	680 A or less	960 A or less
		Torque	17 N (1.73 kgf, 12.5 lb) or more	31 N (3.16 kgf, 22.9 lb) or more
Generator	Туре		Rotating-field three-phase type, Voltage regulator built-in type, with load response control system	
	Model		A002TB2891	
	Manufacturer		Mitsubishi Electric	
	Voltage and output		12 V — 90 A	
	Polarity on ground side		Negative	
	Rotating direction		Clockwise (viewed from pulley side)	
	Armature connection		3-phase Y-type	
	Output current		1,500 rpm — 36 A or more	
			2,500 rpm — 65 A or more	
			5,000 rpm — 86 A or more	
	Regulated voltage		14.1 — 14.8 V [20°C (68°F)]	
Battery	Voltage and output		MT: 12 V — 48 AH (55D23L) AT: 12 V — 52AH (75D23L)	

B: COMPONENT

1. STARTER

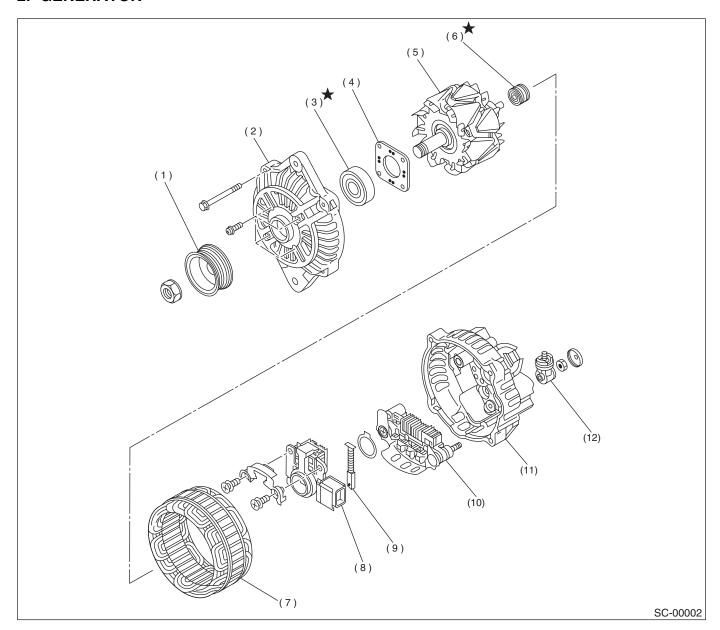


- (1) Front bracket
- (2) Sleeve bearing
- (3) Lever set
- (4) Switch ASSY
- (5) Stopper set
- (6) Over running clutch

- (7) Internal gear ASSY
- (8) Shaft ASSY
- (9) Gear ASSY
- (10) Packing
- (11) Yoke ASSY
- (12) Armature

- (13) Brush holder ASSY
- (14) Sleeve bearing
- (15) Rear cover
- (16) Rear cover set

2. GENERATOR



- (1) Pulley
- (2) Front cover
- (3) Ball bearing
- (4) Bearing retainer

- (5) Rotor
- (6) Bearing
- (7) Stator coil
- (8) IC regulator with brush
- (9) Brush
- (10) Rectifier
- (11) Rear cover
- (12) Terminal

C: CAUTION

- Wear working clothing, including a cap, protective goggles, and protective shoes during operation
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Be careful not to burn your hands, because each part in the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the ground cable from battery.