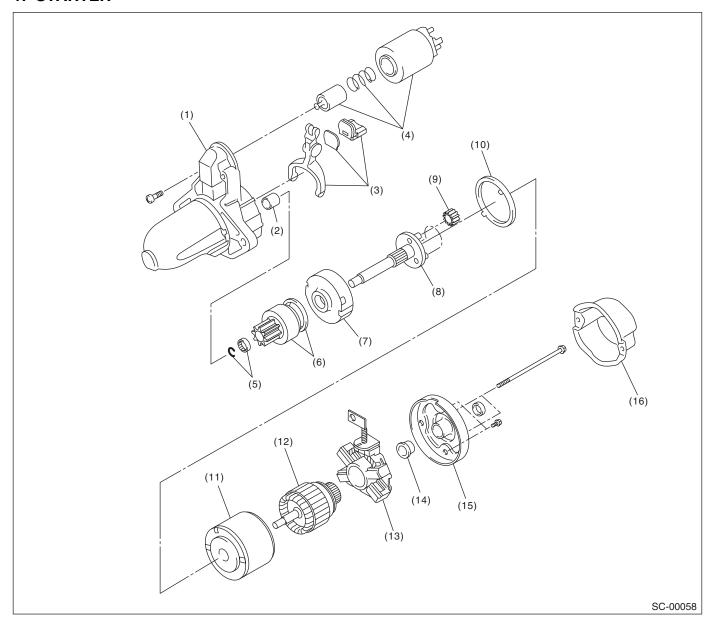
1. General Description

A: SPECIFICATION

Item		Specification		
Vehicle model			MT	AT
	Туре		Reduction type	
Starter	Model		M000T30471	M000T20171
	Manufacturer		Mitsubishi Electric	
	Voltage and output		12 V — 1.0 kW	12 V — 1.4 kW
	Direction of rotation		Counterclockwise (when observed from pinion)	
	Number of pinion teeth		8 9	
	No-load characteristics	Voltage	11 V	
		Current	95 A or less	90 A or less
		Rotating speed	More than 2,500 rpm	More than 2,000 rpm
	Load characteristics	Voltage	7.5 V	7.7 V
		Current	300 A	400 A
		Torque	8.84 N·m (0.90 kgf-m, 6.5 ft-lb) or more	16.7 N⋅m (1.70 kgf-m, 12.3 ft-lb) or more
		Rotating speed	More than 870 rpm	More than 710 rpm
	Lock characteristics	Voltage	4 V	3.5 V
		Current	680 A or less	960 A or less
		Torque	17 N⋅m (1.73 kgf-m, 12.5 ft-lb) or more	31 N·m (3.16 kgf-m, 22.9 ft-lb) or more
Generator	Туре		Rotating-field three-phase type, voltage regulator built-in type, with load response control system	
	Model	Non-turbo	A2TG0391	
		Turbo	A3TG0491	
	Manufacturer		Mitsubishi Electric	
	Voltage and output	Non-turbo	12 V — 90 A	
		Turbo	12 V — 110 A	
	Polarity on ground side		Negative	
	Direction of rotation		Clockwise (when observed from pulley side)	
	Armature connection		3-phase Y-type	
	Output current	Non-turbo	1,500 rpm — 40 A or more 2,500 rpm — 74 A or more 5,000 rpm — 84 A or more	
		Turbo	1,500 rpm — 50 A or more 2,500 rpm — 91 A or more 5,000 rpm — 105 A or more	
	Regulated voltage		14.1 — 14.8 V [20°C (68°F)]	
Battery	+	-	12V-48AH (55D23L)	12V-52AH (75D23L)
Battery	Voltage and capacity		12V-48AH (55D23L)	12V-52AH (75D23L)

B: COMPONENT

1. STARTER

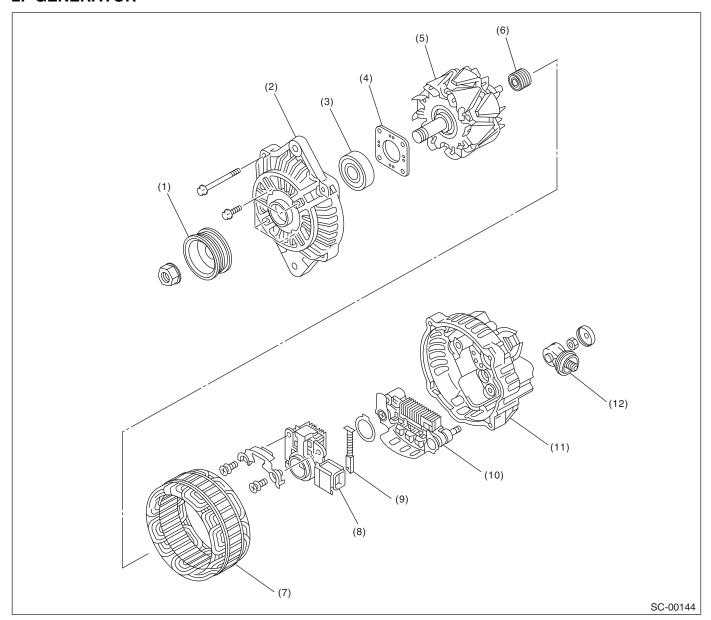


- (1) Front bracket
- (2) Sleeve bearing
- (3) Lever set
- (4) Switch ASSY
- (5) Stopper set
- (6) Overrunning clutch

- (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) Starter coil
- (8) IC regulator with brush
- (9) Brush
- (10) Rectifier
- (11) Rear cover
- (12) Terminal

C: CAUTION

- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from the battery.