

GENERAL DESCRIPTION

Starting/Charging Systems

1. General Description S109001

A: SPECIFICATIONS S109001E49

Item		Designation	
Type		Reduction type	
Model	MT M000T81681	AT M001T84481	
Manufacturer			MITSUBISHI
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
Starter	Voltage	11 V	
	Current	90 A or less	
	Rotating speed	3,000 rpm or more	
Load characteristics	Voltage	8 V	7.7 V
	Current	280 A or less	300 A or less
	Torque	8.5 N·m (0.87 kgf-m, 6.27 ft-lb)	9.8 N·m (1.00 kgf-m, 7.24 ft-lb)
	Rotating speed	980 rpm or more	1,000 rpm or more
Lock characteristics	Voltage	4 V	
	Current	780 A or less	980 A or less
	Torque	17.6 N·m (1.80 kgf-m, 13.0 ft-lb) or more	23 N·m (2.3 kgf-m, 17 ft-lb) or more
Generator	Type	Rotating-field three-phase type, Voltage regulator built-in type	
	Model	A2TB2991	
	Manufacturer	MITSUBISHI	
	Voltage and output	12 V — 75 A	
	Polarity on ground side	Negative	
	Rotating direction	Clockwise (when observed from pulley side)	
	Armature connection	3-phase Y-type	
	Output current	1,500 rpm — 30 A or more 2,500 rpm — 64 A or more 5,000 rpm — 76 A or more	
	Regulated voltage	14.5 ^{+0.3} / _{-0.4} V [20°C (68°F)]	

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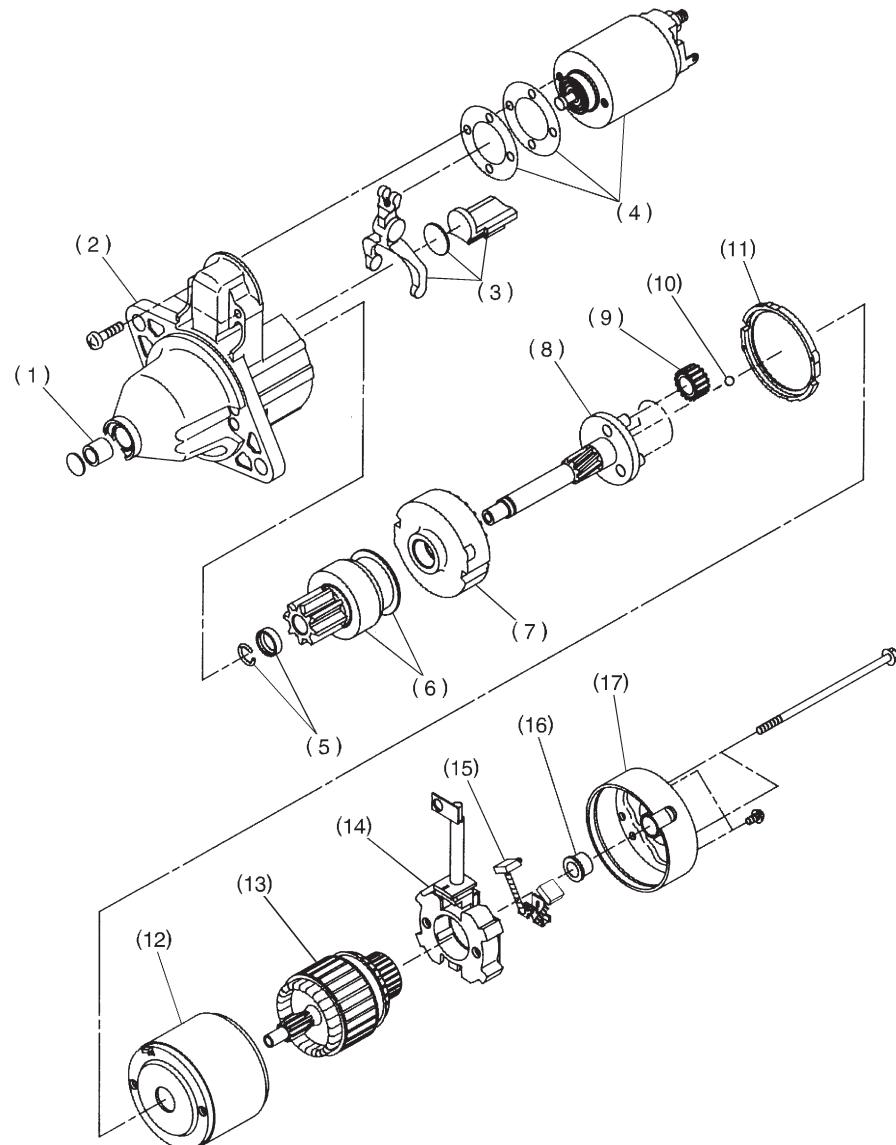
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B: COMPONENT

S109001A05

1. STARTER

S109001A0501



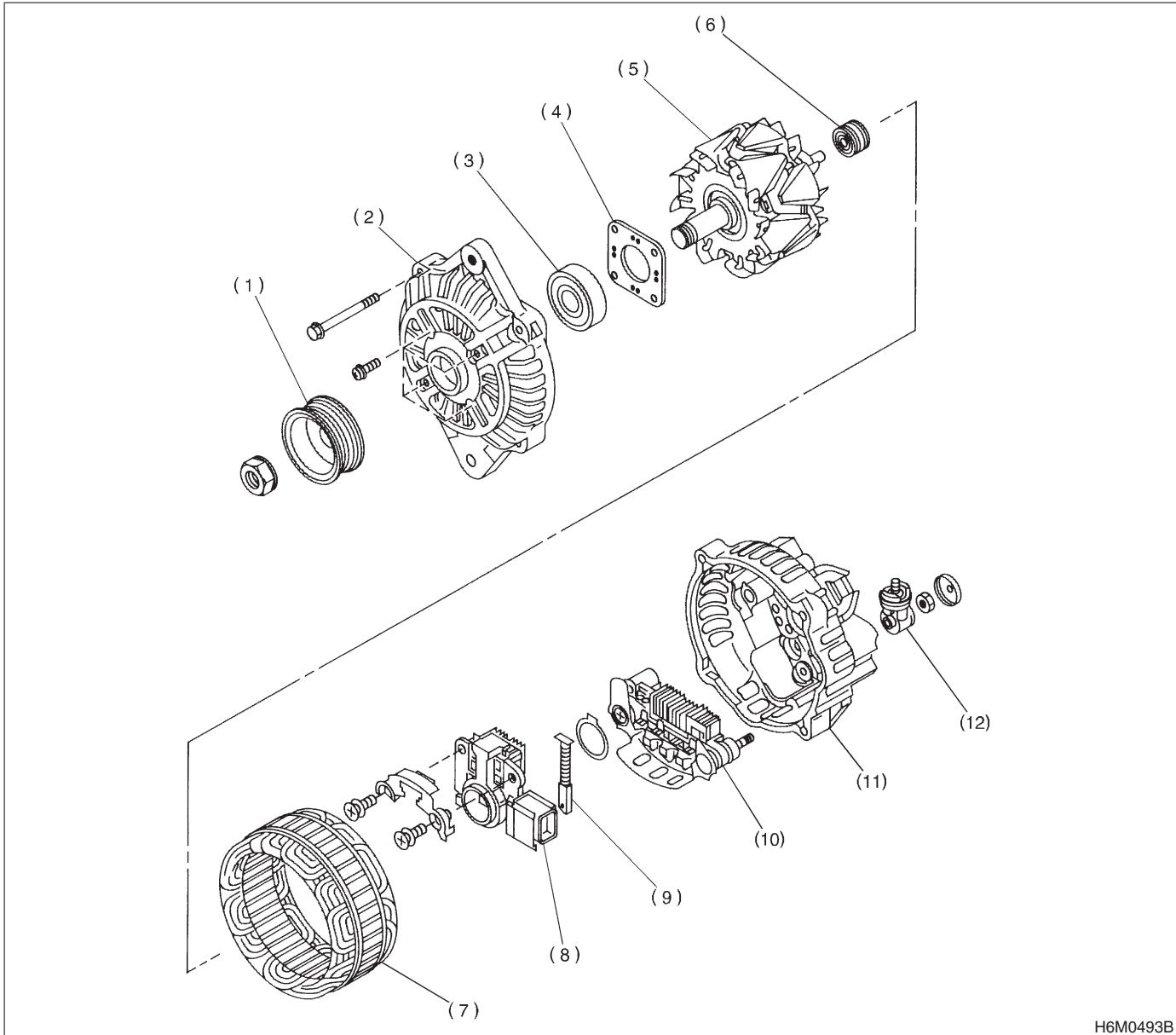
H6M0492B

(1) Sleeve bearing	(7) Internal gear ASSY	(13) Armature
(2) Front bracket	(8) Shaft ASSY	(14) Brush holder
(3) Lever set	(9) Gear ASSY	(15) Brush
(4) Magnet switch ASSY	(10) Ball	(16) Sleeve bearing
(5) Stopper set	(11) Packing	(17) Rear bracket
(6) Over running clutch	(12) Yoke	

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2. GENERATOR S109001A0502



H6M0493B

- (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 S109001A03

- 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 negative terminal from battery.