SERVICE SPECIFICATIONS

SERVICE DATA

CH01A-16

Battery	Specific gravity	at 20°C (68°F)	1.25 — 1.29
	Voltage	at 20°C (68°F)	12.5 — 12.9 V
Drive belt	Deflection	New belt	7 — 10 mm (0.28 — 0.39 in.)
		Used belt	10 — 14 mm (0.39 — 0.55 in.)
	Tension	New belt	440 — 540 N (45 — 55 kgf)
		Used belt	200 — 340 N (20 — 35 kgf)
Alternator	Rated output		12 V 40 A, 12V 45 A, 12 V 50 A, 12 V 55 A 12 V 60 A
	Rotor coil resistance		
	at 20°C (68°F)	w/ IC regulator	2.7 — 3.1 Ω
		w/o IC regulator	3.9 — 4.1 Ω
	Slip ring diameter	STD	32.3 — 32.5 mm (1.272 — 1.280 in.)
		Minimum	32.1 mm (1.264 in.)
	Brush exposed length	STD	20.0 mm (0.787 in.)
		Minimum	5.5 mm (0.217 in.)
Alternator	Rated output		12 V 60 A, 12 V 70 A, 12 V 80 A
	Rotor coil resistance	at 20°C (68°F)	2.7 — 3.1 Ω
	Slip ring diameter	STD	14.2 — 14.4 mm (0.559 — 0.567 in.)
		Minimum	12.8 mm (0.504 in.)
	Brush exposed length	STD	10.5 mm (0.413 in.)
		Minimum	1.5 mm (0.059 in.)
IC regulator for conventional type for w/ IC regulator	Regulating voltage	at 55 °C (131°F)	13.3 — 14.7 V
		at 135°C (275°F)	13.2 — 14.0 V
IC regulator for hi—speed compact type for 60 A	Regulating voltage	at 25°C (77°F)	13.5 — 14.1 V
		at 135°C (275°F)	12.6 — 14.1 V
IC regulator for hi—speed compact type for 70 A, 80 A	Regulating voltage	at 25°C (77°F)	13.8 — 14.4 V
		at 135°C (275°F)	12.9 — 14.4 V
Alternator regulator for conventional type for w/o IC regulator	Regulating voltage	at 20°C (68°F)	13.8 — 14.8 V
		at 60°C (140°F)	13.3 — 15.5 V

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TORQUE SPECIFICATIONS (Conventional Type Alternator)

Part tightened	N·m	kgf·cm	ft·lbf
Bearing retainer x Drive end frame	6.9	70	60 in.·lbf
Alternator pulley x Rotor	176.5	1,800	136
Rectifier end frame x Rectifier holder	3.9	40	35 in.·lbf
Rectifier end frame x Drive end frame	7.8	80	69 in.·lbf

IC regulator x Brush holder	w/ IC regulator	2.5	25	22 in.·lbf
IC regulator x Rectifier end frame	w/ IC regulator	3.9	40	35 in.·lbf
Lead terminal x IC regulator	w/ IC regulator	2.5	25	22 in.·lbf
Brush holder x Rectifier end frame	w/o IC regulator	3.9	40	35 in.·lbf
Connector clamp x Rectifier end frame	w/ IC regulator	3.9	40	35 in.·lbf
Brush holder cover x Rectifier end frame		3.9	40	35 in.·lbf
Vacuum pump x Rectifier end frame		7.8	80	69 in.·lbf

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TORQUE SPECIFICATIONS (Hi–Speed Compact Type Alternator)

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Part tightened		N·m	kgf·cm	ft·lbf
Bearing retainer x Drive end frame		2.6	26.5	23 in.·lbf
Rectifier end frame x Drive end frame		4.5	46	40 in.·lbf
Rectifier holder x Coil lead on rectifier end frame	60 A, 70 A	2.0	20	18 in.·lbf
	80 A	2.9	30	26 in.·lbf
IC regulator x Rectifier end frame		2.0	20	18 in.·lbf
IC regulator, Brush holder x Rectifier holder		2.0	20	18 in.·lbf
Brush holder x IC regulator		2.0	20	18 in.·lbf
Rear end cover x Rectifier holder		4.4	45	39 in.·lbf
Plate terminal x Rectifier holder	80 A Nut	4.4	45	39 in.·lbf
	Bolt	3.8	39	34 in.·lbf
Terminal insulator x Rectifier holder		4.1	41.5	36 in.·lbf
Cord bracket x Drive end frame	LJ	6.0	60	53 in.·lbf
Vacuum pump x Rectifier end frame		7.8	80	69 in.·lbf