

TECHNICAL DATA

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MEASUREMENTS			
Overall length	4,285 mm (169 in)	Apex seal	
Overall width		Length	
(Without side protector)	1,850 mm (65 in)	12A Engine	69.8 mm (2.7481 in)
(With side protector)	1,875 mm (66 in)	13B Engine	79.8 mm (3.1418 in)
Overall height	1,260 mm (50 in)	Width	3.0 mm (0.1181 in)
Distance between wheel center and fender line		Height	
Front	364 ± 20 mm (14.3 ± 0.8 in)	Standard	8.5 mm (0.3347 in)
Rear	358 ± 20 mm (14.0 ± 0.8 in)	Limit	7.0 mm (0.2756 in)
Wheel base	2,420 mm (95 in)	Clearance of apex seal and rotor groove (ΔG)	
Tread		Standard	0.05 ~ 0.09 mm (0.0020 ~ 0.0035 in)
Front	1,420 mm (56 in)	Limit	0.15 mm (0.0059 in)
Rear	1,400 mm (55 in)	Apex seal spring	
Minimum road clearance	160 mm (6 in)	Free height	
Minimum turning radius	4.8 m (15 ft 9 in)	Standard	6.9 mm (0.2717 in) or more
		12A Engine	5.7 mm (0.2244 in) or more
		13B Engine	
		Limit	5.5 mm (0.2165 in)
		12A Engine	3.8 mm (0.1496 in)
		13B Engine	
		Limit	
		Side seal	
		Thickness	1.0 mm (0.0394 in)
		Height	3.5 mm (0.1378 in)
		Clearance of side seal and rotor groove (ΔW)	
		Standard	0.03 ~ 0.08 mm (0.0012 ~ 0.0031 in)
		Limit	0.10 mm (0.0039 in)
		Clearance of side seal and corner seal (ΔE)	
		Standard	0.05 ~ 0.15 mm (0.0020 ~ 0.0059 in)
		Limit	0.40 mm (0.0157 in)
		Side seal protrusion	More than 0.5 mm (0.0197 in)
		Oil seal	
		Height	5.6 mm (0.2205 in)
		Contact width of oil seal lip	Less than 0.5 mm (0.0197 in)
		Oil seal protrusion	More than 0.5 mm (0.0197 in)
		Corner seal	
		Outer diameter	11.0 mm (0.4331 in)
		Height	7.0 mm (0.2756 in)
		Corner seal protrusion	More than 0.5 mm (0.0197 in)
		Main bearing clearance	
		Standard	0.04 ~ 0.08 mm (0.0016 ~ 0.0031 in)
		Wear limit	0.10 mm (0.0039 in)
		Rotor bearing clearance	
		Standard	0.04 ~ 0.08 mm (0.0016 ~ 0.0031 in)
		Wear limit	0.10 mm (0.0039 in)
		Eccentric shaft	
		Eccentricity of rotor journal	15.0 mm (0.5906 in)
		Main journal diameter	43 mm (1.6929 in)
		Rotor journal diameter	74 mm (2.9134 in)
		Max. permissible run-out	0.06 mm (0.0024 in)
		End play	
		Standard	0.04 ~ 0.07 mm (0.0016 ~ 0.0028 in)
		Limit	0.09 mm (0.0035 in)
1. ENGINE			
Displacement			
12A Engine	573 CC (35.0 cu-in) X 2 rotors		
13B Engine	654 CC (40.0 cu-in) X 2 rotors		
Compression ratio	9.4 : 1		
Compression pressure	600 kpa (85 lb/in ²)		
Limit	at 250 rpm		
Max. permissible difference between chambers	150 kpa (21 lb/in ²)		
Port timing			
12A Engine			
Intake opens ATDC	32°		
Intake closes ABDC	40°		
Exhaust opens BBDC	75°		
Exhaust closes ATDC	38°		
13B Engine			
Intake opens ATDC	32°(Pr.) 32°(Sec.) 45° (Auxiliary)		
Intake closes ABDC	40°(Pr.) 30°(Sec.) 70°		
Exhaust opens BBDC	71°		
Exhaust closes ATDC	48°		
Side housings (Front, intermediate and rear housings)			
Width standard			
Front	40 mm (1.5748 in)		
Intermediate	50 mm (1.9685 in)		
Rear	60 mm (2.3622 in)		
Limit of distortion	0.04 mm (0.0016 in)		
Limit of wear			
Sliding surface	0.10 mm (0.0039 in)		
Rotor housing			
Width			
12A Engine	70.0 mm (2.7559 in)		
13B Engine	80.0 mm (3.1497 in)		
Max. permissible difference in width	0.06 mm (0.0024 in)		
Rotor			
Width			
12A Engine	69.8 mm (2.7481 in)		
13B Engine	79.85 mm (3.1438 in)		
Clearance of side housing and rotor (ΔR)			
Standard			
12A Engine	0.12 ~ 0.19 mm (0.0047 ~ 0.0075 in)		
13B Engine	0.12 ~ 0.21 mm (0.0047 ~ 0.0083 in)		
Limit	0.10 mm (0.0039 in)		

Alternator belt tension (slack) (Between alternator and eccentric shaft pulley) Belt deflection	15 ± 2 mm (0.5906 ± 0.0787 in)	Oil metering pump Feeding capacity of 2,000 rpm of engine	
Air pump belt tension (slack) (Between air pump and water pump pulley) Belt deflection	12 ± 1 mm (0.4724 ± 0.0394 in)	12A Engine	1.8 ~ 2.2 cc/6 min. (0.110 ~ 0.134 U.S. cu-in/6 min.)
TIGHTENING TORQUE		13B Engine	0.8 ~ 1.2 cc/6 min. (0.049 ~ 0.073 U.S. cu-in/6 min.)
	N-m	ft-lb	
Oil pump sprocket	32 ~ 47	23 ~ 34	
Oil pan	8 ~ 11	6 ~ 8	
Inlet manifold	19 ~ 26	14 ~ 19	
Exhaust manifold	32 ~ 47	23 ~ 34	
Spark plugs	13 ~ 18	9 ~ 11	
Eccentric shaft pulley	100 ~ 120	72 ~ 87	
Temperature gauge unit	7 ~ 8	5 ~ 6	
Tension bolts	32 ~ 38	23 ~ 27	
Water temperature switch	35 ~ 45	25 ~ 33	
2. LUBRICATING SYSTEM			
Oil pump Type	Rotor 7.0 liters/min. (7.4 U.S. quarts/min., 6.2 Imp. quarts/min.)	TIGHTENING TORQUE	
Feeding capacity at 1,000 rpm of engine	Chain and sprocket 12 mm (0.4724 in)	N-m	ft-lb
Oil pump driven by			
Limit of chain slack			
Outer rotor and body Clearance	0.20 ~ 0.25 mm (0.0079 ~ 0.0098 in)	Oil pump sprocket	32 ~ 47
Standard		Oil pan	8 ~ 11
Wear limit	0.30 mm (0.0118 in)		
Clearance between rotor lobes	0.01 ~ 0.09 mm (0.0004 ~ 0.0035 in)	3. COOLING SYSTEM	
Standard		Water pump	
Wear limit	0.15 mm (0.0059 in)	Type	Centrifugal impeller
Rotor end float	0.03 ~ 0.13 mm (0.0012 ~ 0.0051 in)	Feeding capacity at 6,500 rpm of engine	150 ~ 160 liters/min (39.6 ~ 42.3 U.S. gal/min., 33.0 ~ 35.2 Imp. gal/min.)
Standard		Pump driven by	"V" belt
Wear limit	0.15 mm (0.0059 in)	Pulley ratio of eccentric shaft and pump	1 : 1.18
Oil pressure at 3,000 rpm of engine	450 ~ 550 kpa (64.0 ~ 78.2 lb/in ²)	Fan	
Oil pressure at idle speed of engine ("D" range for automatic)	90 ~ 270 kpa (12.8 ~ 38.4 lb/in ²)	Fan diameter	390 mm (15.3546 in)
Pressure regulator valve (Rear housing)	500 kpa (71.1 lb/in ²) at 3,000 rpm of engine	Number of fan blades	8
Operating pressure		Fan drive	Standard revolution of fan
Free length of spring	46.4 mm (1.8268 in)	Thermostat	
Pressure control valve (Front cover)		Type	Wax pellet
Operating pressure	800 kpa (113.8 lb/in ²)	Starts to open	82 ± 1.5°C (180 ± 2.7°F)
Free length of spring	69.6 mm (2.7402 in)	Fully opens at	95°C (203°F)
By-pass valve (Oil cooler)	300 kpa at 60°C (42.7 lb/in ² at 140°F)	Lift	8 ~ 10 mm (0.3150 ~ 0.3937 in)
Opening pressure		Radiator	
Oil filter		Type	Corrugated fin, with expansion tank
Type	Full flow, cartridge	Pressure cap opens at	90 ~ 15 kpa (12.8 ± 2.0 lb/in ²)
Relief valve opens at	80 ~ 120 kpa (11.4 ~ 17.1 lb/in ²)	Cooling capacity	
		With heater	9.5 liters (10 U.S. quarts) (8.4 Imp. quarts)
		Without heater	8.5 liters (9.0 U.S. quarts) (7.5 Imp. quarts)

TIGHTENING TORQUE			Air cleaner element Sub-zero starting assist fluid	Long life dry Anti-freeze 90% Water 10%	
	N-m	ft-lb			
Temperature gauge unit	7 ~ 8	5 ~ 6	13B Engine Fuel tank capacity	63 liters (16.4 U.S. gal.) (13.9 Imp. gal.)	
Water temperature switch	35 ~ 45	25 ~ 33			
Water pump	18 ~ 27	13 ~ 20			
4. FUEL SYSTEM			Fuel pump	Motor	
12A Engine	63 liters (16.4 U.S. gal.) (13.9 Imp. gal.)		Type	350 ~ 500 kpa (49.8 ~ 71.1 lb/in ²)	
Fuel tank capacity			Outlet pressure	More than 1,700 cc/min. (1.80 U.S. quarts/min.) (1.50 Imp. quarts/min.)	
Fuel pump	Motor		Feeding capacity	Nylon 6 - 150 mesh	
Type	20 ~ 25 kpa (2.84 ~ 3.55 lb/in ²)		Fuel filter	Diaphragm	
Outlet pressure	More than 1,400 cc/min. (1.48 U.S. quarts/min.) (1.23 Imp. quarts/min.)		Pressure regulator	200 ~ 260 kpa (28.4 ~ 37.0 lb/in ²)	
Feeding capacity	Cartridge, paper element		Type		
Fuel filter	Down draft, 2 stage 4 barrel		Fuel pressure		
Carburetor			Throttle chamber	Horizontal - draft (2 stage, 3 barrel)	
Type	28 mm (1.10 in)		Type		
Throat diameter	34 mm (1.34 in)		Throat diameter	40 mm (1.6 in)	
Primary	20 X 13 X 6.5 mm (0.79 X 0.51 X 0.26 in)		Primary	36 mm (1.4 in) X 2	
Secondary	28 X 10 mm (1.10 X 0.39 in)		Secondary	800 rpm	
Venturi diameter			Idling speed	Long life dry	
Primary			Air cleaner element	Anti-freeze 90%	
Secondary			Sub-zero starting assist fluid	Water 10%	
	Manual transmission	Automatic transmission	TIGHTENING TORQUE		
Main jet					
Primary	# 92	# 91			
Secondary	# 160	# 160			
Main air bleed					
Primary No.1	# 70	# 60			
No. 2	# 70	# 70			
Secondary	# 140	# 140			
Slow jet					
Primary	# 46	# 46			
Secondary	# 110	# 110			
Slow air bleed					
Primary No. 1	# 70	# 70			
No. 2	# 170	# 150			
Secondary No. 1	# 160	# 160			
No. 2	# 60	# 60			
Richer jet	# 40	-			
Richer air bleed	# 130	-			
Vacuum jet					
Primary	1.8 mm (0.0709 in)				
Fast idle adjustment					
(Clearance between primary throttle valve and bore when choke knob is fully pulled)	1.0 ~ 1.2 mm (0.039 ~ 0.047 in)				
Float level (from surface of gasket)	16.0 ± 0.5 mm (0.63 ± 0.020 in)				
Float drop (from surface of gasket)	51 ± 0.5 mm (2.0 ± 0.02 in)				
Idling speed					
Manual transmission	750 rpm				
Automatic transmission ("D" range)	750 rpm				
			5. ENGINE ELECTRICAL SYSTEM		
			Battery		
			Type		
			California		
			Except for California		
			Manual transmission		
			Automatic transmission		
			Capacity (20 hours Rate)		
			Voltage		
			Terminal ground		
			Specific gravity at 20°C (68°F)		
			Fully charged		
			Recharged at		
			Distributor		
			Air gap		
			50 D20R		
			50D20R, 65D23R		
			65D23R		
			55 amp, 65D23R		
			50 amp, 50D20R		
			12 Volt		
			Negative		
			50D20R, 65D23R		
			1.280		
			1.220		
			0.5 ~ 0.9 mm (0.020 ~ 0.035 in)		

Centrifugal advance 12A Engine Leading	Starts: 0° at 500 rpm	Load test Voltage Current 12A Engine 13B Engine Revolution Number of brushes Brush length Wear limit Brush spring pressure Pulley ratio of eccentric shaft and alternator Ignition coil (Leading) Type Primary resistance Ignition coil (Trailing) Type Primary resistance	13.5V	
	Maximum: 12.5° at 2,063 rpm		More 26 amp. More 21 amp. Less than 1300 rpm	
Trailing	Starts: 0° at 500 rpm	2	16.5 mm (0.650 in)	
	Maximum: 12.5° at 2,063 rpm	8 mm (0.315 in)	0.3 ~ 0.44 kg (10.6 ~ 15.5 oz)	
13B Engine Leading	Starts: 0° at 500 rpm	1 : 2.08	LB-84 or FTC-3	
	Maximum: 13.75° at 2,000 rpm	0.9 ± 0.09 Ω at 20°C (68°F)	LB-84 or FTC-3	
Trailing	Starts: 0° at 500 rpm	0.9 ± 0.09 Ω at 20°C (68°F)	LB-84 or FTC-3	
	Maximum: 13.75° at 2,000 rpm		0.9 ± 0.09 Ω at 20°C (68°F)	
Vacuum advance 12A Engine Leading	Starts: 0° at 100 mm-Hg (3.9 in-Hg)	Starting motor Capacity Lock test Voltage Current Torque Free running test Voltage Current Speed Number of brushes Brush length Wear limit Standard spring tension Control switch Voltage required to close solenoid contacts Undercutting mica Clearance between armature shaft and bush Armature shaft end play Clearance between pinion and stop collar	Manual transmission	Automatic transmission
	Maximum: 4.5° at -190 mm-Hg (7.5 in-Hg)		1.2 KW	2.0 KW
Trailing	Start: 0° at -100 mm-Hg (3.9 in-Hg)	5.0 volt Less than 420 amp. 9.6 N-m (6.9 ft-lb)	4.0 volt Less than 1,100 amp. 31 N-m (22.4 ft-lb)	
	Maximum: 15° at -400 mm-Hg (15.7 in-Hg)			
13B Engine Leading	Starts: 0° at -100 mm-Hg (3.9 in-Hg)	11.5 volt Less than 60 amp. More than 6,500 rpm	11.5 volt Less than 100 amp. More than 3,500 rpm	
	Maximum: 5° at -250 mm-Hg (9.8 in-Hg)	4	4	
Trailing	Start: 0° at -100 mm-Hg (3.9 in-Hg)	17 mm (0.67 in)	17 mm (0.67 in)	
	Maximum: 12.5° -350 mm-Hg (13.8 in-Hg)	11.5 mm (0.45 in)	11.5 mm (0.45 in)	
Condenser capacity Ignition timing Leading 12A Engine 13B Engine Trailing	0.24 ~ 0.30 μF	1.4 ~ 2.6 kg (49 ~ 92 oz)	1.4 ~ 2.6 kg (49 ~ 92 oz)	
	0° ATDC	Solenoid Less than 8 volt	Solenoid Less than 8 volt	
Timing mark location Spark plug Type	5° ATDC	0.5 ~ 0.8 mm (0.020 ~ 0.031 in)	0.5 ~ 0.8 mm (0.020 ~ 0.031 in)	
	20° ATDC	Less than 0.2 mm (0.008 in)	—	
Initial gap	Eccentric shaft pulley	0.1 ~ 0.5 mm (0.004 ~ 0.02 in)	0.1 ~ 0.5 mm (0.004 ~ 0.02 in)	
	NGK: BR7EQ14, BR8EQ14 BR9EQ14 NIPPON DENSO W22EDR14 W25EDR14 W27EDR14	0.5 ~ 2.0 mm (0.020 ~ 0.079 in)	0.5 ~ 2.0 mm (0.020 ~ 0.079 in)	
Alternator Ground Rated output 12A Engine 13B Engine	1.4 ± 0.05 mm (0.055 ± 0.002 in)			
	Negative			
	12V 50A			
	12V 55A			

6. CLUTCH		Clearance between shift rod gate and control lever Wear limit		0.8 mm (0.0315 in)	
Clutch pedal Free play (at pedal pad)	0.6 ~ 3.1 mm (0.0236 ~ 0.1220 in)	Synchronizer ring Clearance between synchronizer ring and side of gear when fitted	Standard	1.5 mm (0.0591 in)	
Engagement height (from floor)	More than 75 mm (2.9528 in)	Wear limit	Standard	0.8 mm (0.0315 in)	
Master cylinder Bore	15.87 mm (0.6248 in)	Lubricant	Above -18°C (0°F)	A.P.I. Service GL-4 or GL-5 SAE90	
Clearance between piston and bore Standard	0.032 ~ 0.102 mm (0.0013 ~ 0.0040 in)	Below -18°C (0°F)		A.P.I. Service GL-4 or GL-5 SAE80W	
Limit	0.15 mm (0.0059 in)	TIGHTENING TORQUE			
Release cylinder Bore	19.05 mm (0.7500 in)				
Clearance between piston and bore Standard	0.040 ~ 0.125 mm (0.0016 ~ 0.0049 in)	Plug for interlock pin hole	N-m	ft-lb	
Limit	0.15 mm (0.0059 in)	Control lever to control rod end	10 ~ 15	7 ~ 11	
Clutch disc Thickness limit	7.0 mm (0.2756 in)	Shift fork set bolts	8 ~ 12	6 ~ 9	
Rivet depth limit	0.3 mm (0.0118 in)	Shift rod end	12 ~ 16	9 ~ 12	
Lateral run-out limit	1.0 mm (0.0394 in)	Main shaft lock nut	8 ~ 12	6 ~ 9	
Diaphragm Finger out of alignment Limit	1.0 mm (0.0394 in)	Maint shaft lock nut	130 ~ 210	94 ~ 152	
Finger groove wear depth Limit	1.0 mm (0.0394 in)	Top switch	25 ~ 35	18 ~ 25	
		Overdrive switch	25 ~ 35	18 ~ 25	
		Back-up light switch	25 ~ 25	18 ~ 25	
		Speedometer driven gear	8 ~ 11	6 ~ 8	
		Bearing cover 6T bolts	16 ~ 23	12 ~ 17	
		8T bolts	18 ~ 27	13 ~ 20	
TIGHTENING TORQUE		7B. AUTOMATIC TRANSMISSION			
		Gear ratio			
Flywheel	N-m	Low	2.458		
Clutch cover	ft-lb	Second	1.458		
		Third	1.000		
		OD (Fourth)	0.720		
		Reverse	2.181		
		Fluid type	M2C33F (Type F)		
		Fluid capacity	7.5 liters (7.9 U.S. quarts) (6.6 Imp. quarts)		
		Drive plate run-out Limit	0.5 mm (0.0197 in)		
		Oil pump Side play of inner gear and outer gear Limit	0.08 mm (0.0031 in)		
		Clearance between outer gear and crescent Limit	0.25 mm (0.0098 in)		
		Clearance between outer gear and housing Limit	0.25 mm (0.0098 in)		
		Side clearance between oil seal ring and groove on oil pump cover	0.4 ~ 0.16 mm (0.0016 ~ 0.0063 in)		
		Direct clutch Thickness of drive plate Limit	1.6 ~ 1.8 mm (0.0630 ~ 0.0709 in)		
		Total clearance measured between retaining plate and snap ring	0.5 ~ 0.8 mm (0.0197 ~ 0.0315 in)		
		End play	0.25 ~ 0.50 mm (0.0098 ~ 0.0197 in)		
		OD gear train End play	0.25 ~ 0.50 mm (0.0098 ~ 0.0197 in)		
7A. MANUAL TRANSMISSION					
Gear ratio		12A Engine	13B Engine		
First	3.622	←			
Second	2.186	←			
Third	1.419	←			
Fourth	1.000	←			
Reverse	3.493	←			
Fifth	0.807		0.758		
Oil capacity	2.0 liters (2.1 U.S. quarts) (1.8 Imp. quarts)				
Main shaft Max. permissible run-out	0.03 mm (0.0012 in)				
Clearance between main shaft and gear (or bush) Wear limit	0.15 mm (0.0059 in)				
Reverse idle gear Clearance between reverse idle gear bush and shaft Wear limit	0.15 mm (0.0059 in)				
Shift fork and rod Clearance between shift fork and clutch sleeve Wear limit	0.5 mm (0.0197 in)				

Front clutch Total clearance measured between retaining plate and snap ring End play of front clutch drum Rear clutch Total clearance measured between retaining plate and snap ring Low and reverse brake Total clearance measured between retaining plate and snap ring Gear assembly Total end play Planetary gear side play Limit Engine stall speed	1.6 ~ 1.8 mm (0.0630 ~ 0.0709 in) 0.5 ~ 0.8 mm (0.0197 ~ 0.0315 in) 0.8 ~ 1.5 mm (0.0315 ~ 0.0591 in) 0.8 ~ 1.05 mm (0.0315 ~ 0.413 in) 0.25 ~ 0.50 mm (0.0098 ~ 0.0197 in) 0.8 mm (0.0315 in) 2,400 ~ 2,650 rpm	Governor pressure <table border="1"> <thead> <tr> <th rowspan="2">Driving speed</th> <th colspan="2">Governor pressure</th> </tr> <tr> <th>Kpa</th> <th>lb/in²</th> </tr> </thead> <tbody> <tr> <td>mph</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>80 ~ 140</td> <td>11 ~ 17</td> </tr> <tr> <td>35</td> <td>150 ~ 230</td> <td>20 ~ 28.4</td> </tr> <tr> <td>55</td> <td>320 ~ 410</td> <td>46 ~ 58</td> </tr> </tbody> </table> Line pressure <table border="1"> <thead> <tr> <th rowspan="2">Manual range</th> <th colspan="2">Engine idling condition</th> <th colspan="2">Engine stall condition</th> </tr> <tr> <th>Kpa</th> <th>lb/in²</th> <th>Kpa</th> <th>lb/in²</th> </tr> </thead> <tbody> <tr> <td>R</td> <td>400 ~ 700</td> <td>57 ~ 100</td> <td>1600 ~ 1900</td> <td>228 ~ 270</td> </tr> <tr> <td>D</td> <td>300 ~ 400</td> <td>43 ~ 57</td> <td>900 ~ 1100</td> <td>128 ~ 156</td> </tr> <tr> <td>2</td> <td>800 ~ 1200</td> <td>114 ~ 171</td> <td>800 ~ 1200</td> <td>114 ~ 171</td> </tr> <tr> <td>1</td> <td>300 ~ 400</td> <td>43 ~ 57</td> <td>900 ~ 1100</td> <td>128 ~ 156</td> </tr> </tbody> </table>	Driving speed	Governor pressure		Kpa	lb/in ²	mph			20	80 ~ 140	11 ~ 17	35	150 ~ 230	20 ~ 28.4	55	320 ~ 410	46 ~ 58	Manual range	Engine idling condition		Engine stall condition		Kpa	lb/in ²	Kpa	lb/in ²	R	400 ~ 700	57 ~ 100	1600 ~ 1900	228 ~ 270	D	300 ~ 400	43 ~ 57	900 ~ 1100	128 ~ 156	2	800 ~ 1200	114 ~ 171	800 ~ 1200	114 ~ 171	1	300 ~ 400	43 ~ 57	900 ~ 1100	128 ~ 156																																																							
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8. PROPELLER SHAFT			Backlash between rack and sector gear Worm bearing preload Without sector shaft and column bush With sector shaft and column bush Clearance between sector shaft and housing bush Wear limit End clearance of adjusting screw and sector shaft Lubricant Oil capacity	Adjust to 0 mm 0.2 ~ 0.5 N-m (1.7 ~ 4.3 in-lb) 0.6 ~ 1.2 N-m (5.2 ~ 10.4 in-lb) 0.1 mm (0.004 in) 0 ~ 0.1 mm (0 ~ 0.004 in) A.P.I. Service GL-4 SAE90 290 cc (0.31 U.S. quarts) (0.26 Imp. quarts)
Max. permissible runout	0.4 mm (0.016 in)			
Max. permissible unbalance at 4,000 rpm	15 cm-gr (0.21 in-oz)			
At front	15 cm-gr (0.21 in-oz)			
At rear	15 cm-gr (0.21 in-oz)			
Universal joint	0.3 ~ 0.8 N-m (2.6 ~ 6.9 in-lb)			
Journal swinging torque				
TIGHTENING TORQUE			Max. Wheel angle on full lock Wheel on inside of curve Wheel on outside of curve Idler arm revolving torque	39°40' ± 2° 32°14' ± 2° 2 ~ 6 kg/135 mm (4.4 ~ 13.2 lb/5.315 in)
	N-m	ft-lb		
Yoke to rear axle companion flange	35 ~ 38	25 ~ 27		
9. REAR AXLE			Kuckle arm ball stud revolving torque Steering geometry King-pin inclination 13 inch tire vehicles 14 inch tire vehicles Camber 13 inch tire vehicles 14 inch tire vehicles Max. permissible difference in camber between sides Camber offset Caster Max. permissible difference in caster between sides Caster trail Toe-in	More than 0.4 kg (14 oz) 10°44' 11°20' 1°00' ± 30' 0°35' ± 30' ±30' 38 mm (1.50 in) Right-hand side 4°10' ± 30' Left-hand side 3°40' ± 30' ±30' 20 mm (0.79 in) 0 ~ 6 mm (0 ~ 0.24 in)
Reduction ratio 12A engine powered vehicle 13B engine powered vehicle	3,909 4,076			
Backlash of ring gear and pinion	0.09 ~ 0.11 mm (0.0035 ~ 0.0043 in)			
Pinion bearing preload (Without pinion oil seal)	0.9 ~ 1.4 N-m (7.8 ~ 12.2 in-lb)			
Differential side bearing preload (Without pinion)	0.6 ~ 2.1 N-m (5.2 ~ 18.2 in-lb)			
Backlash of side gear and pinion gear	0 ~ 0.1 mm (0 ~ 0.0039 in)			
Rear wheel bearing end play	0 ~ 0.1 mm (0 ~ 0.0039 in)			
Lubricant	Standard diff. Above -18°C (0°F) Below -18°C (0°F) Limited slip diff.			
	A.P.I. Service GL-5 SAE90 A.P.I. Service GL-5 SAE80W A.P.I. Service GL-5 SAE90 (Special Lubricant For Limited Slip Differentials)			
Oil capacity	Standard diff. Limited slip diff.			
	1.2 liters (1.3 U.S. quarts) 1.1 Imp. quarts) 1.6 liters (1.7 U.S. quarts) 1.4 Imp. quarts)			
"L" (Case spread)	185.428 ~ 185.500 mm (7.3004 ~ 7.3033 in)			
TIGHTENING TORQUE			10B. POWER STEERING	Type Integral ball nut 15.83 : 1 5 ~ 20 mm (0.2 ~ 0.8 in) 40 mm (1.57 in) 0.15 mm (0.0059 in) 0.10 mm (0.0039 in) Worm bearing preload Before adjusting backlash After adjusting backlash Max. wheel angle on full lock Wheel on inside of curve Wheel on outside of curve Oil
	N-m	ft-lb		
Ring gear	70 ~ 85	51 ~ 61		
Differential side bearing caps	38 ~ 53	27 ~ 38		
Companion flange to pinion	13 ~ 18	94 ~ 130		
10A. MANUAL STEERING			5 ~ 20 mm (0.2 ~ 0.8 in) 40 mm (1.57 in)	39°14' ± 2° 32°14' ± 2° ATF Type F (M2C33-F)
Reduction ratio	17.0 ~ 20.0 : 1			
Free play of steering wheel (Turning direction)	Standard Limit			
	5 ~ 20 mm (0.2 ~ 0.8 in) 40 mm (1.57 in)			

TIGHTENING TORQUE			Standard	0.040 ~ 0.125 mm (0.0016 ~ 0.0049 in)
	N-m	ft-lb	Limit	0.15 mm (0.006 in)
Steering wheel nut	40 ~ 50	29 ~ 36	Remaining pressure	50 ~ 100 kpa (7.1 ~ 14.2 lb/in ²)
Steering gear housing to frame	44 ~ 55	32 ~ 40	Clearance between drum and lining	0.1 ~ 0.15 mm (0.004 ~ 0.006 in)
Pitman arm to sector shaft	150 ~ 180	108 ~ 130	Parking brake Lever travel	6 ~ 8 notches at 10 kg (22 lb)
Idler arm bracket to frame	44 ~ 55	32 ~ 40	TIGHTENING TORQUE	
Idler arm to center link	25 ~ 35	18 ~ 25		
Pitman arm to center link	30 ~ 45	22 ~ 33		
Tie-rod to center link	30 ~ 45	22 ~ 33		
Tie-rod to knuckle arm	30 ~ 45	22 ~ 33		
Tie-rod lock nut	70 ~ 80	51 ~ 58		
Steering gear box end cover lock nut	230 ~ 260	166 ~ 188		
11. BRAKING SYSTEM				
Brake pedal free travel	7 ~ 9 mm			
Before power brake piston operates	(0.28 ~ 0.35 in)			
Brake pedal height (from floor)	190 ~ 195 mm (7.48 ~ 7.68 in)			
Master cylinder Bore	20.64 mm (0.813 in)			
Clearance between piston and bore				
Standard	0.040 ~ 0.125 mm (0.0016 ~ 0.0049 in)			
Wear limit	0.15 mm (0.006 in)			
Power brake unit				
Clearance between piston and push rod	0.1 ~ 0.5 mm (0.004 ~ 0.020 in)			
Front disc brake				
Thickness of brake disc				
Standard	18 mm (0.7087 in)			
Limit	17 mm (0.6693 in)			
Max. allowable lateral run-out of brake disc	0.1 mm (0.0039 in)			
Thickness of lining				
Standard	9 mm (0.3543 in)			
Thickness limit	1 mm (0.039 in)			
Caliper cylinder bore	50.80 mm (2.0 in)			
Rear disc brake				
Thickness of brake disc				
Standard	10 mm (0.3937 in)...Solid 22 mm (0.866 in) ...Ventilated			
Limit	9 mm (0.3543 in)...Solid 20 mm (0.787 in) ...Ventilated			
Max. allowable lateral run-out of brake disc	10 mm (0.3937 in) 9 mm (0.3543 in)			
Thickness of lining				
Standard	0.1 mm (0.0039 in)			
Thickness limit				
Caliper cylinder bore	6 mm (0.2362 in) 1 mm (0.039 in)			
Rear drum brake				
Drum diameter	34.93 mm (1.3752 in)			
Standard				
Limit				
Thickness of lining	200 mm (7.8741 in) 201 mm (7.9135 in)			
Standard				
Thickness limit				
Wheel cylinder bore	4.0 mm (0.1575 in) 1.0 mm (0.039 in)			
Clearance between piston and bore	19.05 mm (0.750 in)			
12. WHEELS AND TIRES				
Wheel disc				
Front				5-J x 13 WDC 5½-JJ x 13 WDC (Aluminum)
Rear				5-J x 13 WDC 5½-JJ x 13 WDC (Aluminum)
Front				5½-JJ x 14 WDC
Rear				5½JJ x 14 WDC
Temporary spare tire				4-T x 15
Run-out limit				
Radial				1.0 mm (0.04 in) 0.5 mm (0.020 in) Aluminum
Lateral				1.0 mm (0.04 in) 0.5 mm (0.020 in) Aluminum
Tire				
Front				185/70 HR 13 165HR 13 205/60 VR 14 185/70 HR 13 165HR 13 205/60 VR 14 T135/70 D 15
Rear				
Temporary spare tire				
Inflation pressure				
Front				190 kpa (27 psi) 200 kpa (28 psi)... 14 in only
Rear				190 kpa (27 psi) 200 kpa (28 psi)... 14 in only
Temporary spare tire				420 kpa (60 psi)
Run-out limit (with wheel disc)				
Radial				2.5 mm (0.098 in) 3.0 mm (0.118 in)
Lateral				0.45 ~ 0.65 kg (0.99 ~ 1.43 lb)
Front wheel bearing preload (at wheel set t .lit)				
TIGHTENING TORQUE				
	N-m	ft-lb		
Wheel bolts	90 ~ 120	65 ~ 87		

13. SUSPENSION			15. BODY ELECTRICAL SYSTEM		
Front coil spring	2.16 ± 0.15 kg/mm		Item	Specification (W)	
Spring constant			Headlights		
Free length			Halogen headlights	50/60 50, 40/55 (Normal)	
Standard	334.5 mm (13.17 in)		Rear side marker lights	3.8	
Left	32.5 mm (12.80 in)		Turn-signal lights	27	
Right			Front parking lights	8	
Front shock absorber			Rear turn signal lights	27	
Fluid capacity	225 ⁺⁵ / ₋₀ cc (0.23 ^{+0.05} / ₋₀ U.S. quarts)		Tail lights	8	
Rear coil spring			Stop lights	27	
Spring constant	1.8 ± 0.13 kg/mm		Back-up lights	27	
Free length	323.5 mm (12.74 in)		License plate lights	6	
Standard			Interior lights	10	
			Map lights	6	
			Luggage compartment lights	5	
			Indicator and warning lights		
			Turn signals	3.4	
			High beam	3.4	
			Oil pressure	1.4	
			Alternator	1.4	
			Stop lights	1.4	
			Brake	1.4	
			Parking brake	1.4	
			Fuel	3.4	
			Hazard	3.4	
			Washer level	1.4	
			Seat belt	1.4	
			Illumination lights		
			Automatic selector lever	3.4	
			Heater	3.4	
			Meter	3.4 & 1.4	
			Cigarette lighter	3.4	
			Radio	3.4	
			Rear window defroster	1.4	
TIGHTENING TORQUE			TIGHTENING TORQUE		
	N-m	ft-lb		N-m	ft-lb
Suspension arm to cross member	40 ~ 55	29 ~ 40	Unless otherwise specified		
Knuckle arm to shock absorber	64 ~ 95	46 ~ 69	6T		
Suspension arm ball joint to knuckle arm	60 ~ 80	43 ~ 58	6 mm bolt/nut	7 ~ 10	5 ~ 7
Front shock absorber			8 mm bolt/nut	16 ~ 23	12 ~ 17
Piston rod to mounting block	65 ~ 82	47 ~ 59	10 mm bolt/nut	32 ~ 47	23 ~ 34
Seal cap nut	50 ~ 60	36 ~ 43	12 mm bolt/nut	56 ~ 82	41 ~ 59
Tension rod to lower suspension arm	55 ~ 69	40 ~ 50	14 mm bolt/nut	77 ~ 105	56 ~ 76
Tension rod to bracket	110 ~ 150	80 ~ 108	8T		
Tension rod bracket to frame	76 ~ 107	55 ~ 77	6 mm bolt/nut	8 ~ 12	6 ~ 9
Stabilizer bar to suspension lower arm	12 ~ 18	9 ~ 13	8 mm bolt/nut	18 ~ 17	13 ~ 20
Front stabilizer support plate	38 ~ 47	27 ~ 34	10 mm bolt/nut	37 ~ 55	27 ~ 40
Shock absorber to axle housing	65 ~ 82	47 ~ 59	12 mm bolt/nut	64 ~ 95	46 ~ 69
Upper link to axle housing	77 ~ 105	56 ~ 76	14 mm bolt/nut	104 ~ 140	75 ~ 101
Upper link to frame	77 ~ 105	56 ~ 76			
Lower link to axle housing	77 ~ 105	56 ~ 76			
Lower link to frame	77 ~ 105	56 ~ 76			
Shock absorber upper	13 ~ 25	9 ~ 18			
Watt link bracket	77 ~ 105	56 ~ 76			
Watt link to axle housing	65 ~ 82	47 ~ 59			
Watt link to bracket	65 ~ 82	47 ~ 59			
Rear stabilizer support plate	32 ~ 47	23 ~ 34			
Stabilizer lock nut	10 ~ 16	7 ~ 12			