TECHNICAL DATA

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ENGINE

Displacement	573 cc (35.0 cu-in) x 2 rotors
Compression ratio	9.4 : 1
Compression pressure	
Limit	600 kpa (85 lb/in²) at 250 rpm
Max. permissible difference between chambers	150 kpa (21 lb/in²)
Port timing	
Intake opens	32° ATDC
Intake closes	40° ABDC
Exhaust opens	75° BBDC
Exhaust close	38° ATDC
Side housings (Front, intermediate and rear housings)	
Width standard	
Front	40 mm (1.575 in)
Intermediate	50 mm (1.969 in)
Rear	60 mm (2.362 in)
Limit of distortion	0.40 mm (0.0016 in)
Limit of wear	
Sliding surface	0.10 mm (0.0039 in)
Rotor housing	
Width	70 mm (2.7559 in)
Max. permissible difference in width	0.06 mm (0.0024 in)
Rotor	
Width	69.8 mm (2.748 in)
Clearance of side housing and rotor (△R)	
Standard	0.12 ~ 0.18 mm (0.0047 ~ 0.0071 in)
Limit	0.10 mm (0.004 in)
Apex seal	
Length	69.8 mm (2.748 in)
Width	3.0 mm (0.1181 in)
Height	
Standard	8.5 mm (0.3347 in)
Limit	7.0 mm (0.2756 in)
Clearance of apex seal and rotor groove (△G)	
Standard	0.05 ~ 0.09 mm (0.0020 ~ 0.0035 in)
Limit	0.15 mm (0.0059 in)
Apex seal spring	
Free height	
Standard	6.9 mm (0.2717 in) or more
Limit	5.5 mm (0.2165 in)
Side seal	
Thickness	1.0 mm (0.0394 in)
Height	3.5 mm (0.1378 in)
Clearance of side seal and rotor groove (△W)	
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 (△E)	
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 (0.020 in)
Oil seal protrusion	More than 0.5 mm (0.020 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 (0.020 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)
Alternator belt tension (slack) (Between alternator and eccentric shaft pulley)	
Belt deflection	15 ± 2 mm (0.59 ± 0.08 in)
Air pump belt tension (slack) (Between air pump and water pump pulley)	
Belt deflection	12 ± 1 mm (0.47 ± 0.04 in)

LUBRICATING SYSTEM

Oil pump	
Type	Rotor
Feeding capacity at 1,000 rpm of engine	5.0 liters/min. (5.3 U.S. quarts/min. 4.4 Imp. quarts/min.)
Oil pump driven by	Chain and sprocket
Limit of chain slack	12 mm (0.47 in)
Outer rotor and body Clearance	
Standard	0.20 ~ 0.25 mm (0.0079 ~ 0.0098 in)
Wear limit	0.30 mm (0.0118 in)
Clearance between rotor lobes	
Standard	0.01 ~ 0.09 mm (0.0004 ~ 0.0035 in)
Wear limit	0.15 mm (0.0059 in)
Rotor end float	
Standard	0.03 ~ 0.13 mm (0.0012 ~ 0.0051 in)
Wear limit	0.15 mm (0.0059 in)
Oil pressure at 3,000 rpm of engine	450 ~ 550 kpa (64 ~ 78 lb/in²)

Oil pressure at idle speed of engine	70 ~ 180 kpa (10 ~ 26 lb/in²)
Pressure regulator valve (Rear housing)	
Operating pressure	500 kpa (71.1 lb/in²) at 3,000 rpm of engine
Free length of spring	46.4 mm (1.8267 in)
Pressure control valve (Front cover)	
Operating pressure	1100 kpa (156 lb/in²)
Free length of spring	73.0 mm (2.874 in)
By-pass valve (Oil cooler)	
Starts to close	50 ~ 55°C (122 ~ 131°F)
Fully closes	60 ~ 65°C (140 ~ 149°F)
Opening pressure	356 kpa at 60°C (50.6 lb/in² at 140°F)
Oil filter	
Type	Full flow, cartridge
Relief valve opens at	80 ~ 120 kpa (11 ~ 17 lb/in²)
Oil metering pump	
Feeding capacity of 2,000 rpm of engine	2.0 ~ 2.4 cc/6 min. (0.068 ~ 0.081 U.S. oz/6 min.)
Lubricant	
Classification	A.P.I. Service SD or SE
Above −10°C (15°F)	SAE 20W-40 or 20W-50
−25°C ~ 30°C (−13°F ~ 86°F)	SAE 10W-30
Above −25°C (−13°F)	SAE 10W-40 or 10W-50
Below −20°C (−4°F)	SAE 5W-20
Below 0°C (32°F)	SAE 5W-30
Oil capacity	
Full capacity	5.2 liters (5.5 U.S. quarts / 4.6 Imp. quarts)
Oil pan capacity	4.2 liters (4.4 U.S. quarts / 3.7 Imp. quarts)

COOLING SYSTEM

Water pump	
Type	Centrifugal impeller
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.)
Pump driven by	"V" belt
Pulley ratio of eccentric shaft and pump	1 : 1.18
Fan	
Fan diameter	410 mm (16.1 in)
Number of fan blades	7
Fan drive	
Standard revolution of fan	Less than 800 rpm at 4,200 rpm of engine
Thermostat	
Type	Wax pellet
Starts to open	82 ± 1.5°C (180 ± 2.7°F)
Fully opens at	95°C (203°F)
Lift	8 ~ 10 mm (0.3 ~ 0.4 in)
Radiator	
Type	Corrugated fin, with expansion tank
Pressure cap opens at	90 ± 15 kpa (13.0 ± 2 lb/in²)
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)

FUEL SYSTEM

Fuel tank capacity	63 liters (16.4 U.S. gal / 13.9 Imp. gal)
Fuel pump	
Type	Electrical, plunger
Fuel pressure	26 ~ 33 kpa (3.70 ~ 4.79 lb/in²)
Feeding capacity	More than 1,100 cc/min. (1.16 U.S. quarts/min. / 0.97 Imp. quarts/min.)
Fuel filter	Cartridge, paper element
Carburetor	
Type	Down draft, 2 stage 4 barrel
Throat diameter	
Primary	28 mm (1.10 in)
Secondary	34 mm (1.34 in)
Venturi diameter	
Primary	20 X 13 X 6.5 mm (0.79 X 0.51 X 0.26 in)
Secondary	28 X 10 mm (1.10 x 0.39 in)

	Manual transmission	Automatic transmission
Main jet		
Primary	# 92	# 91
Secondary	# 160	# 160
Main air bleed		
Primary	# 70	# 60
Secondary	# 140	# 140
Slow jet		
Primary	# 46	# 46
Secondary	# 110	# 110
Slow air bleed		
Primary No. 1	# 70	# 70
No. 2	# 180	# 160
Secondary No. 1	# 160	# 160
No. 2	# 60	# 60
Vacuum jet		
Primary	1.8 mm (0.0709 in)	1.8 mm (0.0709 in)
Fast idle ajustment (Clearance between primary throttle valve and bore when choke knob is fully pulled)	0.8 ~ 1.0 mm (0.031 ~ 0.039 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)	
Idle speed		
Manual transmission	750 rpm	
Automatic transmission ("D" range)	750 rpm	
Sub-zero starting assist fluid	Anti-freeze 90% Water 10%	

ELECTRICAL SYSTEM

Battery	
Type	
California	G60-5, Y60-5
Except for California	
Manual transmission	G60-5, Y60-5, NS70S
Automatic transmission	NS70S
Capacity (20hours Rate)	55 amp. NS70S 45 amp. G60-5, Y60-5
Voltage	12 Volt
Terminal ground	Negative
Specific gravity at 20°C (68°F)	G60-5, Y60-5 / NS70S
Fully charged	1.260 / 1.280
Recharged at	1.200 / 1.220
Distributor	
Air gap	0.5 ~ 0.9 mm (0.020 ~ 0.035 in)
Centrifugal advance	
Leading	Starts: 0° at 500 rpm Maximum: 10° at 1,750 rpm
Trailing	Starts: 0° at 500 rpm Maximum: 10° at 1,750 rpm
Vacuum advance	
Leading	Starts: 0° at −100 mm-Hg Maximum: 7.5° at −250 mm-Hg
Trailing	Start: 0° at −100 mm-Hg Maximum: 15° at −400 mm-Hg
Condenser capacity	0.24 ~ 0.30 μF
Ignition timing	
Leading	0° ATDC
Trailing	20° ATDC
Timing mark location	Eccentric shaft pulley
Spark plug	
Type	NGK: BR7EQ14, BR8EQ14 BR9EQ14 NIPPON DENSO W22EDR14 W25EDR14 W27EDR14
Initial gap	1.4 ± 0.05 mm (0.055 ± 0.002 in)
Alternator	
Ground	Negative
Rated output	12V 50A
Number of poles	12
Load test	
Voltage	13.5V
Current	36 amp.
Revolution	Less than 2,500 rpm
Number of brushers	2
Brush length	18 mm (0.71 in)
Wear limit	8 mm (0.31 in)
Brush spring pressure	3.15 ~ 4.26 N (11 ~ 15 oz)
Pulley ratio of eccentric shaft and alternator	1 : 2.08
Ignition coil (Leading)	
Type	LB-84 or FTC-3
Primary resistance	0.9 ± 0.09 Ω at 20°C (68°F)
Ignition coil (Trailing)	
Type	LB-84 or FTC-3
Primary resistance	0.9 ± 0.09 Ω at 20°C (68°F)

	Manual transmission	Automatic transmission
Starting motor		
Capacity	1.2 KW	2.0 KW
Lock test		
Voltage	5.0 volt	4.0 volt
Current	Less than 600 amp.	Less than 1,100 amp.
Torque	9.6 N-m (6.9 ft-lb)	31 N-m (22.4 ft-lb)
Free running test		
Voltage	11.5 volt	11.5 volt
Current	Less than 50 amp.	Less than 100 amp.
Speed	More than 5,600 rpm	More than 3,500 rpm
Number of brushes	3	4
Brush length	18.5 mm (0.73 in)	17 mm (0.67 in)
Wear limit	11.5 mm (0.45 in)	11.5 mm (0.45 in)
Standard spring tension	14 ~ 26N (49 ~ 92 oz)	14 ~ 26N (49 ~ 92 oz)
Control switch	Solenoid	Solenoid
Voltage required to close solenoid contacts	Less than 8 volt	Less than 8 volt
Undercutting mica	0.5 ~ 0.8 mm (0.020 ~ 0.031 in)	0.5 ~ 0.8 mm (0.020 ~ 0.031 in)
Clearance between armature shaft and bush	Less than 0.2 mm (0.008 in)	0 mm (0.008 in)
Armature shaft end play	0.1 ~ 0.5 mm (0.004 ~ 0.02 in)	0.1 ~ 0.5 mm (0.004 ~ 0.02 in)
Clearance between pinion and stop collar	0.5 ~ 2.0 mm (0.020 ~ 0.079 in)	0.5 ~ 2.0 mm (0.020 ~ 0.079 in)

CLUTCH

Clutch pedal	
Free play (at pedal pad)	0.6 ~ 3.1 mm (0.024 ~ 0.122 in)
Engagement height (from floor)	More than 75 mm (2.95 in)

Master cylinder	
Bore	15.87 mm (0.625 in)
Clearance between piston and bore	
Standard	0.032 ~ 0.102 mm (0.0013 ~ 0.0040 in)
Limit	0.15 mm (0.006 in)
Release cylinder	
Bore	19.05 mm (0.750 in)
Clearance between piston and bore	
Standard	0.040 ~ 0.125 mm (0.0016 ~ 0.0049 in)
Limit	0.15 mm (0.006 in)
Clutch disc	
Thickness limit	7.0 mm (0.276 in)
Rivet depth limit	0.3 mm (0.012 in)
Lateral run-out limit	1.0 mm (0.039 in)
Diaphragm	
Finger out of alignment	
Limit	1.0 mm (0.039 in)
Finger groove wear depth	
Limit	1.0 mm (0.039 in)

MANUAL TRANSMISSION

Gear ratio	
First	3.674
Second	2.217
Third	1.432
Fourth	1.000
Reverse	3.542
Fifth	0.825
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 (0.006 in)
Reverse idle gear	
Clearance between reverse idle gear bush and shaft	
Wear limit	0.15 mm (0.006 in)
Shift fork and rod	
Clearance between shift fork and clutch sleeve	
Wear limit	0.5 mm (0.020 in)
Clearance between shift rod gate and control lever	
Wear limit	0.8 mm (0.031 in)
Synchronizer ring	
Clearance between synchronizer ring and side of gear when fitted	
Standard	1.5 mm (0.059 in)
Wear limit	0.8 mm (0.031 in)
Lubricant	
Above −18°C (0°F)	A.P.I. Service GL-4 or GL-5 SAE90
Below −18°C (0°F)	A.P.I. Service GL-4 or GL-5 SAE80

AUTOMATIC TRANSMISSION

Gear ratio	
Low	2.458
Second	1.458
Top	1.000
Reverse	2.181
Fluid type	M2C33F (Type F)
Fluid capacity	6.2 liters (6.6 U.S. quarts, 5.5 Imp. quarts)
Drive plate run-out	
Limit	0.5 mm (0.020 in)
Oil pump	
Side play of inner gear and outer gear	
Limit	0.08 mm (0.003 in)
Clearance between outer gear and crescent	
Limit	0.25 mm (0.010 in)
Clearance between outer gear and housing	
Limit	0.25 mm (0.010 in)
Side clearance between oil seal ring and groove on oil pump cover	0.04 ~ 0.16 mm (0.002 ~ 0.006 in)
Front clutch	
Thickness of drive plate	
Limit	1.4 mm (0.055 in)
Total clearance measured between retaining plate and snap ring	1.6 ~ 1.8 mm (0.063 ~ 0.071 in)
End play of front clutch drum	0.5 ~ 0.8 mm (0.020 ~ 0.031 in)
Rear clutch	
Thickness of drive plate	
Limit	1.4 mm (0.055 in)
Total clearance measured between retaining plate and snap ring	0.8 ~ 1.5 mm (0.031 ~ 0.059 in)
Low and reverse brake	
Thickness of friction plate	
Limit	1.8 mm (0.071 in)
Total clearance measured between retaining plate and snap ring	0.8 ~ 1.05 mm (0.031 ~ 0.041 in)
Gear assembly	
Total end play	0.25 ~ 0.50 mm (0.010 ~ 0.020 in)
Planetary gear side play	
Limit	0.8 mm (0.031 in)
Engine stall speed	
In break-in period	2,300 ~ 2,550 rpm
After break-in period	2,350 ~ 2,600 rpm

	Wire diameter	Free length
Valve body spring		
Pressure regulator valve	1.20 ± 0.03 mm (0.047 ± 0.001 in)	43.0 ± 1.0 mm (1.69 ± 0.039 in)
1st−2nd shift valve	0.55 ± 0.015 mm (0.022 ± 0.0006 in)	32.0 ± 2.0 mm (1.260 ± 0.079 in)
2nd−3rd shift valve	0.70 ± 0.015 mm (0.028 ± 0.0006 in)	41.0 ± 1.0 mm (1.61 ± 0.039 in)

	Wire diameter	Fee length
Pressure modifier valve	0.40 ± 0.01 mm (0.016 ± 0.0004 in)	18.5 ± 1.0 mm (0.73 ± 0.039 in)
Throttle back-up valve	0.80 ± 0.015 mm (0.031 ± 0.0006 in)	36.0 ± 1.0 mm (1.42 ± 0.039 in)
Solenoid down shift valve	0.55 ± 0.015 mm (0.022 ± 0.0006 in)	21.9 ± 1.0 mm (0.86 ± 0.039 in)
2nd lock valve	0.55 ± 0.015 mm (0.022 ± 0.0006 in)	33.5 ± 1.0 mm (1.32 ± 0.039 in)
Throttle relief valve	0.90 ± 0.03 mm (0.035 ± 0.001 in)	26.8 ± 1.0 mm (1.06 ± 0.039 in)
Orifice check valve	0.23 ± 0.01 mm (0.009 ± 0.0004 in)	15.5 ± 2.0 mm (0.61 ± 0.079 in)

Shift speed

Throttle condition (Manifold vacuum)		mph
Kick-down (0 ~ 100 mm-Hg / 0 ~ 3.94 in-Hg)	$D_1 \rightarrow D_2$	31 ~ 44
	$D_2 \rightarrow D_3$	57 ~ 74
	$D_3 \rightarrow D_2$	49 ~ 63
	$D_2 \rightarrow D_1$	20 ~ 30
Half throttle (200 ± 10 mm-Hg / 7.87 ± 0.39 in-Hg)	$D_1 \rightarrow D_2$	7 ~ 19
	$D_2 \rightarrow D_3$	18 ~ 39
Fully closed throttle	$D_3 \rightarrow D_1$	6 ~ 12
Manual 1	$1_2 \rightarrow 1_1$	24 ~ 32

Governor pressure

Driving speed	Output shaft speed	Governor pressure	
mph	rpm	kpa	lb/in²
20	1,190 ~ 1,070	80 ~ 130	11 ~ 18
35	1.940 ~ 2,100	160 ~ 230	23 ~ 33
55	3,100 ~ 3,300	340 ~ 450	48 ~ 64

Line pressure

Manual range	Engine idling condition		Engine stall condition	
	kpa	lb/in²	kpa	lb/in²
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

PROPELLER SHAFT

Max. permissible run-out	0.4 mm (0.016 in)
Max. permissible unbalance at 4,000 rpm	
At front	15 cm-gr (0.21 in-oz)
At rear	15 cm-gr (0.21 in-oz)
Universal joint	
Spider diameter	$25^{+0.021}_{+0.008}$ mm ($0.9843^{+0.0008}_{+0.0003}$ in)
Wear limit	24.908 mm (0.9806 in)
Journal swinging torque	0.3 ~ 0.8 N-m (2.6 ~ 6.9 in-lb)

REAR AXLE

Reduction ratio	3.909
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 ~ 0.004 in)
Rear wheel bearing end play	0 ~ 0.1 mm (0 ~ 0.004 in)
Lubricant	
Above −18°C (0°F)	A.P.I. Service GL-5 SAE 90
Below −18°C (0°F)	A.P.I. Service GL-5 SAE 80
Oil capacity	1.2 liters (1.3 U.S. quarts / 1.1 Imp. quarts)
"L" (Case spread)	185.428 ~ 185.500 mm (7.3004 ~ 7.3033 in)

LIMITED SLIP DIFFERENTIAL

Reduction ratio	3.909
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)
Lubricant	A.P.I. Service GL-5 SAE90 (Special Lubricant For Limited Slip Differentials)
Oil capacity	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)

STEERING

Reduction ration	17.0 ~ 20.0 : 1
Free play of steering wheel (Turning direction) Limit	40 mm (1.57 in)

Backlash between rack and sector gear	Adjust to 0 mm
Worm bearing preload	
Without sector shaft and column bush	0.2 ~ 0.5 N-m (1.7 ~ 4.3 in-lb)
With sector shaft and column bush	0.6 ~ 1.2 N-m (5.2 ~ 10.4 in-lb)
Clearance between sector shaft and housing bush	
Wear limit	0.1 mm (0.004 in)
End clearance of adjusting screw and sector shaft	0 ~ 0.1 mm (0 ~ 0.004 in)
Lubricant	A.P.I. Service GL-4 SAE 90
Oil capacity	190 cc (0.31 U.S. quarts / 0.26 Imp. quarts)
Max. Wheel angle on full lock	
Wheel on inside of curve	39°40′ ± 2°
Wheel on outside of curve	32°14′ ± 2°
Idler arm revolving torque	20 ~ 60 N/135 mm (4.4 ~ 13.2 lb/5.315 in)
Knuckle arm ball stud revolving torque	More than 4 N (14 oz)
Steering geometry	
King-pin inclination	10°44′
Camber	1°00′ ± 30′
Max. permissible difference in camber between sides	±30′
Camber offset	38 mm (1.50 in)
Caster	Right-hand side 4°10′ ±30′ Left-hand side 3°40′ ± 30′
Max. premissible difference in caster between sides	± 30′
Caster trail	20 mm (0.79 ihn)
Toe-in	0 ~ 6 mm (0 ~ 0.24 in)

BRAKES

Brake pedal free travel	
Before power brake piston operates	7 ~ 9 mm (0.28 ~ 0.35 in)
Brake pedal height (from floor)	190^{+5}_{-0} mm ($7.48^{+0.20}_{-0}$ 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)
Limit	9 mm (0.3543 in)
Max. allowable lateral run-out of brake disc	0.1 mm (0.0039 in)
Thickness of lining	
Standard	6 mm (0.2362 in)
Thickness limit	1 mm (0.039 in)
Caliper cylinder bore	34.93 mm (1.3752 in)
Rear drum brake	
Drum diameter	
Standard	200 mm (7.8741 in)
Limit	201 mm (7.9135 in)
Thickness of lining	
Standard	4.0 mm (0.1575 in)
Thickness limit	1.0 mm (0.039 in)
Wheel cylinder bore	19.05 mm (0.750 in)
Clearance between piston and bore	
Standard	0.040 ~ 0.125 mm (0.0016 ~ 0.0049 in)
Limit	0.15 mm (0.006 in)
Remaining pressure	50 ~ 100 kpa (7.1 ~ 14.2 lb/in²)
Clearance between drum and lining	0.1 ~ 0.15 mm (0.004 ~ 0.006 in)
Parking brake	
Lever travel	6 ~ 8 notches at 100N (22 lb)

WHEEL 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)
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
Rear	185/70 HR 13 165 HR 13
Temporary spare tire	T135/70 D 15
Inflation pressure	
Front	180 kpa (26 psi)
Rear	180 kpa (26 psi)
Temporary spare tire	420 kpa (60 psi)
Run-out limit (with wheel disc)	
Radial	2.5 mm (0.098 in)
Lateral	3.0 mm (0.118 in)
Front wheel bearing preload (at wheel set bolt)	4.5 ~ 6.5 N (0.99 ~ 1.43 lb)

SUSPENSION

Front coil spring	
Spring constant	2.16 ± 0.15 kg/mm
Free length	
Standard left	334.5 mm (13.17 in)
Right	325 mm (12.80 in)
Front shock absorber	
Fluid capacity	$225\ ^{+5}_{-0}$ cc ($0.23\ ^{+0.05}_{-0}$ U.S. quarts)
Rear coil spring	
Spring constant	1.8 ± 0.13 kg/mm
Free length	
Standard	323.5 mm (12.74 in)

DIMENSION

Overall length	4,285 mm (169 in)
Overall width	
(Without side protector)	1,650 mm (65 in)
(With side portector)	1,675 mm (66 in)
Overall height	1,260 mm (50 in)
Distance between wheel center and fender line	
Front	364 ± 20 mm (14.3 ± 0.8 in)
Rear	358 ± 20 mm (14.0 ± 0.8 in)
Wheel base	2,420 mm (95 in)
Tread	
Front	1,420 mm (56 in)
Rear	1,400 mm (55 in)
Minimum road clearance	160 mm (6 in)
Minimum turning radius	4.8 m (15 ft 9 in)
Seating capacity	2

TIGHTENING TORQUE

	N-m	ft-lb
Engine		
Oil pump sprocket	32 ~ 47	23 ~ 34
Oil pan	8 ~ 11	6 ~ 8
Inlet manifold	19 ~ 26	14 ~ 19
Exhaust manifold	44 ~ 59	23 ~ 43
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
Clutch		
Flywheel	400 ~ 500	289 ~ 362
Clutch cover	18 ~ 27	13 ~ 20
Transmission		
Plug for interlock pin hole	10 ~ 15	7 ~ 11
Control lever to control rod end	8 ~ 12	6 ~ 9
Shift fork set bolts	12 ~ 16	9 ~ 12

TIGHTENING TORQUE

	N-m	ft-lb
Shift rod end	8 ~ 12	6 ~ 9
Main shaft lock nut	130 ~ 210	94 ~ 152
Top switch	25 ~ 35	18 ~ 25
Overdrive switch	25 ~ 35	18 ~ 25
Back-up light switch	25 ~ 35	18 ~ 25
Speedometer driven gear	8 ~ 11	6 ~ 8
Automatic transmission		
Drive plate to converter weight	42 ~ 63	30 ~ 46
Drive plate to torque converter	35 ~ 50	25 ~ 36
Converter housing to engine	32 ~ 47	23 ~ 34
Converter housing to transmission case	45 ~ 55	33 ~ 40
Extension housing to transmission case	20 ~ 25	14 ~ 18
Oil pan	5 ~ 7	36 ~ 51
Piston stem (when adjusting band barke)	12 ~ 15	9 ~ 11
Piston stem lock nut	15 ~ 40	11 ~ 29
Servo piston retainer	10 ~ 15	7 ~ 11
Servo cover	5 ~ 7	3.6 ~ 5.1
One-way clutch inner race	13 ~ 18	9 ~ 13
Control valve body to transmission case	5.5 ~ 7.5	4.0 ~ 5.4
Lower valve body to upper valve body	2.5 ~ 3.5	1.8 ~ 2.5
Side plate to control valve body	2.5 ~ 3.5	1.8 ~ 2.5
Reamer bolt of control valve body	5 ~ 7	3.6 ~ 5.1
Oil strainer	3 ~ 4	2.2 ~ 2.9
Governor valve body to oil distributor	5 ~ 7	3.6 ~ 5.1
Oil pump cover	6 ~ 8	4.3 ~ 5.8
Inhibitor switch	5 ~ 7	3.6 ~ 5.1
Manual shaft lock nut	30 ~ 40	22 ~ 29
Oil cooler pipe set bolt	16 ~ 24	12 ~ 17
Oil pressure test plug	5 ~ 10	3.6 ~ 7.2
Actuator for parking rod to extension housing	8 ~ 11	5.8 ~ 8.0
Propeller shaft		
Yoke to rear axle companion flange	35 ~ 38	25 ~ 27
Rear axle		
Ring gear	70 ~ 85	51 ~ 61
Differential side bearing caps	38 ~ 53	27 ~ 38
Companion flange to pinion	13 ~ 18	94 ~ 130
Steering		
Steering wheel nut	40 ~ 50	29 ~ 36
Steering gear housing to frame	44 ~ 53	32 ~ 40
Pitman arm to sector shaft	15 ~ 18	108 ~ 130
Idler arm bracket to frame	44 ~ 55	32 ~ 40
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

TIGHTENING TORQUE

	N-m	ft-lb
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
Brake		
Master cylinder union bolt	10 ~ 16	7 ~ 12
Master cylinder outlet plug	60 ~ 70	43 ~ 50
Brake tube union nut	13 ~ 22	9 ~ 16
Flexible hose union	25 ~ 35	18 ~ 25
Wheel cylinder union bolt	7 ~ 10	5 ~ 7
Wheels		
Wheel bolts	90 ~ 110	65 ~ 80
Suspension		
Suspension arm to cross member	40 ~ 55	29 ~ 40
Knuckle arm to shock absorber	64 ~ 95	46 ~ 69
Suspension arm ball joint to knuckle arm	60 ~ 80	43 ~ 58
Front shock absorber		
Piston rod to mounting block	65 ~ 82	47 ~ 59
Seal cap nut	50 ~ 60	36 ~ 43
Tension rod to lower suspension arm	55 ~ 69	40 ~ 50
Tension rod to bracket	110 ~ 150	80 ~ 108
Tension rod bracket to fram	76 ~ 107	55 ~ 77
Stabilizer bar to suspension lower arm	12 ~ 18	9 ~ 13
Front stabilizer support plate	38 ~ 47	27 ~ 34
Shock absorber to axle housing	65 ~ 82	47 ~ 59
Upper link to axle housing	77 ~ 105	56 ~ 76
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
Unless otherwise specified		
6T		
6 mm bolt/nut	7 ~ 10	5 ~ 7
8 mm bolt/nut	16 ~ 23	12 ~ 17
10 mm bolt/nut	32 ~ 47	23 ~ 34
12 mm bolt/nut	56 ~ 82	41 ~ 59
14 mm bolt/nut	77 ~ 105	56 ~ 76
8T		
6 mm bolt/nut	8 ~ 12	6 ~ 9
8 mm bolt/nut	18 ~ 27	13 ~ 20
10 mm bolt/nut	37 ~ 55	27 ~ 40
12 mm bolt/nut	64 ~ 95	46 ~ 69
14 mm bolt/nut	104 ~ 140	75 ~ 101