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TECHNICAL DATA

MEASUREMENTS	30— 2
ENGINE	30— 2
LUBRICATION SYSTEM	30— 4
COOLING SYSTEM	30— 5
FUEL SYSTEM (NON-TURBO).....	30— 6
FUEL SYSTEM (TURBO).....	30— 7
ENGINE ELECTRICAL SYSTEM.....	30— 7
CLUTCH	30— 8
MANUAL TRANSMISSION	30— 9
AUTOMATIC TRANSMISSION	30—10
PROPELLER SHAFT	30—12
REAR AXLE	30—12
MANUAL STEERING	30—13
POWER STEERING	30—13
BRAKING SYSTEM	30—14
WHEELS AND TIRES	30—15
SUSPENSION	30—15
BODY ELECTRICAL SYSTEM	30—16
STANDARD BOLT AND NUT TIGHTENING TORQUE	30—17

77U30X-001

0. MEASUREMENTS

Item		Specification	
Overall length	mm (in)	4,290 (168.9) 4,310 (169.7) (With license plate holder)	
Overall width	mm (in)	1,690 (66.5)	
Overall height	mm (in)	1,265 (49.8)	
Wheelbase	mm (in)	2,430 (95.7)	
Tread	mm (in)	Front	1,450 (57.1)
		Rear	1,440 (56.7)

1. ENGINE

Item		Engine model	RE 13B (TURBO)	RE 13B (NON-TURBO)	
Type		Rotary engine			
Displacement		cc (cu in)	654 x 2 (40.0 x 2)		
Number of rotors and arrangement		2 rotors, longitudinal			
Combustion chamber type		Bath tub			
Compression ratio			8.5 : 1	9.4 : 1	
Port timing	Intake	Open	Primary	32°ATDC	
			Secondary	32°ATDC	
			Auxiliary	—	45°ATDC
		Close	Primary	50°ABDC	40°ABDC
			Secondary	50°ABDC	30°ABDC
			Auxiliary	—	80°ABDC
	Exhaust	Open	75°BBDC		
		Close	48°ATDC		
Compression pressure kPa (kg/cm ² , psi)—rpm	Limit	588 (6.0, 85.2)—250			
	Limit of difference between chambers	147 (1.5, 21.3)—250			
Side housing (Front, intermediate and rear housing)	Distortion limit	mm (in)	0.04 (0.0016)		
	Side seal wear limit	mm (in)	0.10 (0.0039)		
	Side seal wear limit, overlapping oil seal wear	mm (in)	0.01 (0.0004)		
	Side seal wear limit, outside oil seal wear	mm (in)	0.10 (0.0039)		
	Oil seal wear limit	mm (in)	0.02 (0.0008)		
	Rotor housing	Width	mm (in)	79.970 ~ 80.010 (3.1485 ~ 3.1500)	
Difference limit of width		mm (in)	0.06 (0.0024)		
Rotor	Width (Rand)	mm (in)	79.80 ~ 79.85 (3.142 ~ 3.144)		
	Clearance of side housing and rotor	mm (in)	Standard	0.12 ~ 0.21 (0.0047 ~ 0.0083)	
		mm (in)	Limit	0.10 (0.0039)	
	Diameter of corner seal groove	mm (in)	11.000 ~ 11.018 (0.4331 ~ 0.4338)		
	Width of side seal groove	mm (in)	0.714 ~ 0.739 (0.0281 ~ 0.0291)		
	Width of apex seal groove	mm (in)	1.995 ~ 2.012 (0.0785 ~ 0.0792)		
Apex seal and spring	Width	mm (in)	1.910 ~ 1.939 (0.0752 ~ 0.0763)		
	Hight (upper and lower)	mm (in)	Standard	8.0 (0.315)	
		mm (in)	Limit	6.5(0.256)—Refer to ENGINE INSPECTION section	
	Clearance of apex seal and rotor groove	mm (in)	Standard	0.051 ~ 0.101 (0.0020 ~ 0.0040)	0.062 ~ 0.102 (0.0024 ~ 0.0040)
		mm (in)	Limit	0.15 (0.0059)	
	Warpage limit (With two pieces)	0.06 (0.0024)			
	Spring free height	mm	Long	Standard	6.25 (0.246)
				Limit	4.6 (0.181)
mm		Short	Standard	3.3 (0.130)	
			Limit	1.7 (0.067)—Refer to ENGINE INSPECTION section	

Item	Engine model		RE 13B (TURBO)	RE 13B (NON-TURBO)
	Side seal and spring	Thickness	mm (in)	0.661 ~ 0.686 (0.0260 ~ 0.0270)
Clearance of side seal and rotor groove mm (in)		Standard	0.028 ~ 0.078 (0.0011 ~ 0.0031)	
		Limit	0.10 (0.0039)	
Height		mm (in)	2.85 ~ 3.15 (0.1122 ~ 0.1240)	
Protrusion limit		mm (in)	0.50 (0.020)	
Clearance of side seal and corner seal mm (in)		Standard	0.05 ~ 0.15 (0.0020 ~ 0.0059)	
	Limit	0.40 (0.016)		
Corner seal and spring	Outer diameter	mm (in)	10.990 ~ 11.014 (0.4327 ~ 0.4336)	
	Height	mm (in)	6.8 ~ 7.0 (0.268 ~ 0.276)	
	Protrusion limit	mm (in)	0.50 (0.020)	
Rotor oil seal and spring	Height	mm (in)	5.6 ~ 5.8 (0.220 ~ 0.228)	
	Width limit of oil seal lip	mm (in)	0.50 (0.020)	
	Protrusion limit	mm (in)	0.50 (0.020)	
Main bearing	Inner diameter	mm (in)	43.025 ~ 43.050 (1.6939 ~ 1.6949)	
Rotor bearing	Inner diameter	mm (in)	74.025 ~ 74.050 (2.9144 ~ 2.9154)	
Eccentric shaft	Eccentricity of rotor	mm (in)	15 (0.59)	
	Run-out limit	mm (in)	0.12 (0.0047)	
	End-play mm (in)	Standard	0.040 ~ 0.070 (0.0016 ~ 0.0028)	
		Limit	0.09 (0.0035)	
	Main journal diameter	mm (in)	42.970 ~ 42.985 (1.6918 ~ 1.6923)	
	Clearance of main journal mm (in)	Standard	0.04 ~ 0.08 (0.0016 ~ 0.0031)	
		Limit	0.10 (0.0039)	
	Rotor journal diameter	mm (in)	73.970 ~ 73.985 (2.9122 ~ 2.9128)	
Clearance of rotor journal mm (in)	Standard	0.04 ~ 0.08 (0.0016 ~ 0.0031)		
	Limit	0.10 (0.0039)		
Drive belt deflection mm (in)-N(kg, lb)	Alternator		14 ~ 17 (0.55 ~ 0.67)	
	Air pump		8 ~ 10 (0.31 ~ 0.39)	11 ~ 13 (0.43 ~ 0.51)
	A/C compressor		6 ~ 8 (0.24 ~ 0.32)	
	P/S pump		11 ~ 13 (0.43 ~ 0.51)	

TIGHTENING TORQUE	N-m	m-kg	ft-lb
Front stationary gear plate	16 ~ 23	1.6 ~ 2.3	12 ~ 17
Rear stationary gear	16 ~ 23	1.6 ~ 2.3	12 ~ 17
Tension bolt	31 ~ 39	3.2 ~ 4.0	23 ~ 29
Flywheel lock bolt (M/T)	390 ~ 490	40 ~ 50	290 ~ 360
Counter weight lock bolt (A/T)	390 ~ 490	40 ~ 50	290 ~ 360
Drive gear (A/T)	43 ~ 61	4.4 ~ 6.2	32 ~ 45
Oil pump	7 ~ 10	0.7 ~ 1.0	5.1 ~ 7.2
Oil pump driven sprocket	31 ~ 46	3.2 ~ 4.7	23 ~ 34
Front cover	16 ~ 23	1.6 ~ 2.3	12 ~ 17
Eccentric shaft lock bolt	108 ~ 132	11 ~ 13.5	80 ~ 98
Oil pressure control plug	39 ~ 49	4.0 ~ 5.0	29 ~ 36
Pressure regulator valve	88 ~ 108	9.0 ~ 11	65 ~ 80
Oil strainer	7 ~ 10	0.7 ~ 1.0	5.1 ~ 7.2
Oil pan	8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Right engine bracket	63 ~ 93	6.4 ~ 9.5	46 ~ 69
EGR valve	19 ~ 25	1.9 ~ 2.6	14 ~ 19
Oil inlet pipe to front housing (Turbo)	16 ~ 23	1.6 ~ 2.3	12 ~ 17
Vacuum piping	19 ~ 25	1.9 ~ 2.6	14 ~ 19
Water pump	18 ~ 26	1.8 ~ 2.7	13 ~ 20
Eccentric shaft pulley	8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Metering oil pump	8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Intake manifold	19 ~ 25	1.9 ~ 2.6	14 ~ 19
Exhaust manifold	31 ~ 46	3.2 ~ 4.7	23 ~ 34

TIGHTENING TORQUE		N-m	m-kg	ft-lb
Exhaust manifold insulator		8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Turbocharger		44 ~ 54	4.5 ~ 5.5	32 ~ 40
Turbocharger heat insulator		8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Turbocharger oil inlet pipe		24 ~ 35	2.4 ~ 3.6	17 ~ 26
Turbocharger oil outlet pipe		18 ~ 27	1.8 ~ 2.8	13 ~ 20
Primary fuel distribution pipe		19 ~ 25	1.9 ~ 2.6	14 ~ 19
Throttle and dynamic chamber		19 ~ 25	1.9 ~ 2.6	14 ~ 19
Housing oil nozzle		16 ~ 23	1.6 ~ 2.3	12 ~ 17
Front stationary gear plate		16 ~ 23	1.6 ~ 2.3	12 ~ 17
Rear stationary gear		16 ~ 23	1.6 ~ 2.3	12 ~ 17
Tension bolt		31 ~ 39	3.2 ~ 4.0	23 ~ 29
Flywheel lock bolt		390 ~ 490	40 ~ 50	290 ~ 360
Oil pump		7 ~ 10	0.7 ~ 1.0	5.1 ~ 7.2
Oil pump driven sprocket		31 ~ 46	3.2 ~ 4.7	23 ~ 34
Front cover		16 ~ 23	1.6 ~ 2.3	12 ~ 17
Eccentric shaft lock bolt		108 ~ 132	11 ~ 13.5	80 ~ 98
Oil pressure control plug		39 ~ 49	4.0 ~ 5.0	29 ~ 36
Pressure regulator valve		88 ~ 108	9.0 ~ 11	65 ~ 80
Oil strainer		7 ~ 10	0.7 ~ 1.0	5.1 ~ 7.2
Oil pan		8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Right engine bracket		63 ~ 93	6.4 ~ 9.5	46 ~ 69
Manifold oil nozzle		16 ~ 23	1.6 ~ 2.3	12 ~ 17
Metering oil tube (to pump)		10 ~ 14	1.0 ~ 1.4	7.2 ~ 10.1
Clutch disc cover		18 ~ 26	1.8 ~ 2.7	13 ~ 20
Alternator strap		22 ~ 30	2.2 ~ 3.1	16 ~ 22
Alternator	Long bolt	37 ~ 52	3.8 ~ 5.3	27 ~ 38
	Short bolt	19 ~ 26	1.9 ~ 2.6	14 ~ 19
Air pump bracket		19 ~ 25	1.9 ~ 2.6	14 ~ 19
Air pump strap		19 ~ 25	1.9 ~ 2.6	14 ~ 19
Air pump	Long bolt	16 ~ 23	1.6 ~ 2.3	12 ~ 17
	Short bolt	24 ~ 30	2.4 ~ 3.1	17 ~ 22
Crank angle sensor		8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Oil filter body		8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Spark plug		13 ~ 18	1.3 ~ 1.8	9.4 ~ 13
Left engine bracket		55 ~ 80	5.6 ~ 8.2	41 ~ 59
A/C compressor, P/S pump bracket	M10	31 ~ 46	3.2 ~ 4.7	23 ~ 34
	M12	55 ~ 80	5.6 ~ 8.2	41 ~ 59

2. LUBRICATION SYSTEM

Item	Engine model		RE 13B (TURBO)	RE 13B (NON-TURBO)
			Forced-fed	
Lubrication system			Trochoid	
Oil pump	Type			
	Lobe clearance of outer rotor and inner rotor	Standard	0.03 ~ 0.12 (0.0012 ~ 0.0047)	
		Limit	0.15 (0.0059)	
	Clearance of outer rotor and pump body	Standard	0.20 ~ 0.25 (0.0079 ~ 0.098)	
		Limit	0.30 (0.0118)	
	End float	Standard	0.03 ~ 0.13 (0.0012 ~ 0.0051)	
Limit		0.15 (0.0059)		
Pressure control valve	Relief pressure	kPa (kg/cm ² , psi)	1,080 (11.0, 156)	
Oil cooler	Type	Air cooled, with bypass valve		
	Relief temperature	°C (°F)	60 ~ 65 (140 ~ 149) or below	
	Relief pressure dif.	kPa (kg/cm ² , psi)	349 (3.56, 50) at 60°C (140°F)	

Item		Engine model	RE 13B (TURBO)	RE 13B (NON-TURBO)
Regulator valve	Relief pressure	kPa (kg/cm ² , psi)	490 (5.0, 71)	
Oil filter	Type		Full flow, paper element	
	Relief pressure dif.	kPa (kg/cm ² , psi)	98 (1.0, 14)	
Eccentric shaft bypass valve	Relief temperature	°C (°F)	60 (140) or below	
Metering oil pump	Rod end clearance	mm (in)	0~1 (0~0.039)	
	Oil discharge (for one nozzle with the connecting rod up to its maximum) cc (cu in)/2,000 rpm/5 min		2.6~3.3 (0.16~0.20)	2.1~2.8 (0.13~0.17)
Engine oil	Capacity liters(US qt, Imp qt)	Total (dry engine)	5.8 (6.1, 5.1)	
		Oil pan	4.4 (4.7, 3.9)	
		Oil cooler	0.8 (0.85, 0.70)	
		Oil filter	0.3 (0.32, 0.26)	
	Classification		API service "Fuel efficient" SF	
	-10°C (15°F) or over		20W-40, 20W-50	
	-25~30°C (-10~85°F)		10W-30	
-25°C (-10°F) or over		10W-40, 10W-50		
0°C (32°F) or below		5W-30		

TIGHTENING TORQUE		N-m	m-kg	ft-lb
Oil filter			By hand	
Oil pump		7~10	0.7~1.0	5.1~7.2
Oil pressure gauge		11~16	1.1~1.6	8~12
Metering oil pump		8~11	0.8~1.1	5.8~8.0
Housing oil nozzle		16~23	1.6~2.3	12~17
Manifold oil nozzle		16~23	1.6~2.3	12~17
Metering oil tube (to pump)		10~14	1.0~1.4	7.2~10.1
Oil cooler		7~10	0.7~1.0	5.1~7.2
Oil cooler inlet pipe	To front cover	44~54	4.5~5.5	33~40
	To oil cooler	44~54	4.5~5.5	33~40
Oil cooler outlet pipe	To oil cooler	44~54	4.5~5.5	33~40
	To rear housing	54~78	5.5~8.0	40~58
Oil pressure control valve		39~49	4.0~5.0	29~36

3. COOLING SYSTEM

Item		Engine model	RE 13B (TURBO)	RE 13B (NON-TURBO)
Cooling method			Water cooled, forced circulation	
Water pump	Type		Centrifugal impeller	
	Pulley ratio (Speed)		1 : 1.23	
Thermostat	Type		Wax, bottom bypass	
	Opening temperature	°C (°F)	80.5~83.5 (177~183)	
	Full open temperature	°C(°F)	95 (203)	
	Full open lift	mm (in)	8~10 (0.315~0.394)	
Radiator	Type		Corrugated fin	
Coolant filler cap	Relief pressure	kPa (kg/cm ² , psi)	73~103 (0.75~1.05, 10.7~14.9)	
Cooling fan	Cooling fan		Thermo-modulated	
	Number of blades		8	
	Outer diameter	mm (in)	390 (15.35)	

Item		Engine model	RE 13B (TURBO)	RE 13B (NON-TURBO)	
Electrical fan	Type		Electrical		
	Capacity	W	90		
	Number of blades		5		
	Outer diameter	mm (in)	255 (10.04)		
Fan belt	Deflection at 98N (10 kg, 22 lb) mm (in)	For alternator	14 ~ 17 (0.55 ~ 0.67)		
		For air pump	8 ~ 10 (0.31 ~ 0.39)	11 ~ 13 (0.43 ~ 0.51)	
Coolant	Capacity	liters (US qt, Imp qt)	8.7 (9.2, 7.7)	7.3 (7.7, 6.4)	
Anti-freeze solution	Protection	Mixture	Mixture percentage %		
			Water	Solution	Specific gravity at 20°C (68°F)
	Above -4°C (25°)		80	20	1.028
	Above -16°C (3°)		65	35	1.054
	Above -26°C (-15°F)		55	45	1.066
	Above -40°C (-40°)		45	55	1.078

TIGHTENING TORQUE	N-m	m-kg	ft-lb
Water pump	18 ~ 26	1.8 ~ 2.7	13 ~ 20
Water pump shaft housing	20 ~ 23	2.0 ~ 2.3	14 ~ 17
Thermostat cover	19 ~ 23	2.0 ~ 2.3	14 ~ 17
Water thermo-switch	20 ~ 25	2.0 ~ 2.5	14.5 ~ 18.1
Cooling fan	8 ~ 11	0.8 ~ 1.1	5.8 ~ 8.0
Temperature gauge unit	7 ~ 8	0.7 ~ 0.8	5.1 ~ 5.8
Coolant level sensor	1.5 ~ 3.0	0.15 ~ 0.30	1.1 ~ 2.2
Radiator switch	6 ~ 12	0.6 ~ 1.2	4.3 ~ 8.7
Electrical fan	8 ~ 12	0.8 ~ 1.2	5.8 ~ 8.7
Radiator	16 ~ 21	1.6 ~ 2.1	12 ~ 15

4A. FUEL SYSTEM (NON-TURBO)

Item	Specification		
Fuel tank capacity	liters (US gal)		63 (16.6)
Fuel filter	Type	Low pressure	Nylon 6—164 and 45 mesh
		High pressure	Filter paper
Fuel pump	Type	Impeller (in tank)	
	Output pressure	kPa (kg/cm ² , psi)	441 ~ 588 (4.50 ~ 6.0, 64.0 ~ 85.3)
	Feeding capacity (US gal/min.)	cc/min.	1,300 (0.35)
Pressure regulator	Type	Diaphragm	
	Regulated pressure	kPa (kg/cm ² , psi)	245.2 ~ 255.0 (2.5 ~ 2.6, 35.6 ~ 37.0)
Throttle chamber	Type	Horizontal-draft (2 stage, 3 barrel)	
Throttle diameter	Primary	mm (in)	45 (1.772)
	Secondary	mm (in)	45 (1.772) x 2
Idle speed		rpm	725 ~ 775 (with BAC valve)
Air cleaner element	Long life dry		
Sub-zero starting assist fluid	Anti freeze 90% Water 10%		

TIGHTENING TORQUE	N-m (m-kg ft-lb)
Intake manifold	19 ~ 26 (1.95 ~ 2.65, 14 ~ 19)
Exhaust manifold	32 ~ 47 (3.26 ~ 4.79, 23 ~ 34)

4B. FUEL SYSTEM (TURBO)

Item		Specification	
Fuel tank capacity		liter (US gal)	63 (16.6)
Fuel filter	Type	Low pressure	Nylon 6—164 and 45 mesh
		High pressure	Filter paper
Fuel pump	Type	Impeller (in tank)	
	Output pressure	kPa (kg/cm ² , psi)	490 ~ 637 (5.0 ~ 6.5, 71.1 ~ 92.4)
	Feeding capacity (US gal/min.)	cc/min.	2,200 ~ 3,300 (0.57 ~ 0.86)
Pressure regulator	Type	Diaphragm	
	Regulated pressure	kPa (kg/cm ² , psi)	245.2 ~ 255.0 (2.5 ~ 2.6, 35.6 ~ 37.0)
Throttle chamber	Type	Horizontal-draft (2 stage, 3 barrel)	
Throttle diameter	Primary	mm (in)	45 (1.772)
	Secondary	mm (in)	45 (1.772) x 2
Idle speed		rpm	725 ~ 775 (with BAC valve)
Air cleaner element	Long life dry		
Sub-zero starting assist fluid	Anti freeze 90% Water 10%		

TIGHTENING TORQUE	N-m (m-kg ft-lb)
Intake manifold	19 ~ 26 (1.95 ~ 2.65, 14 ~ 19)
Exhaust manifold	32 ~ 47 (3.26 ~ 4.79, 23 ~ 34)
Turbocharger	44 ~ 54 (4.5 ~ 5.5, 32 ~ 40)

5. ENGINE ELECTRICAL SYSTEM

Item		Model	M/T (NON-TURBO)	A/T (NON-TURBO)	M/T (TURBO)	
Charging system						
Battery	Type	Maintenance free, 50D20L, 65D23L (65D23L: Coldproof area)				
	Voltage	V	12			
	Capacity	Ah	55 (65D23L)			
			50 (50D20L)			
	Specific gravity at 20°C (68°F)	Recharge at	1.230 (50D20L) 1.230 (65D23L)			
		Fully charged	1.280			
Charging current	A	Max. 5				
Alternator	Type	A/C type				
	Voltage-capacity	V-A	12—70			
	Pulley ratio	1 : 2.08				
	No-load test	Voltage	V	13.5		
		Current	A	20 55 66		
		Speed	rpm	1,300 2,500 5,000		
	Load test	Current	A	Min. 55		
		Speed	rpm	2,500		
	Regulated voltage	Alternator (Engine) speed	rpm	5,000		
		In no-load	V	14.4 ~ 15.0		
	Brush	Number		2		
		Length mm (in)	Standard	16.5 (0.650)		
Limit			8 (0.315)			
Spring force		N(kg, lb)	2.9 ~ 4.3 (0.3 ~ 0.44, 0.66 ~ 0.968)			
Ignition system						
Ignition timing	Type	Coaxial reduction				
	Voltage	V	12			

Item		Engine model	M/T (NON-TURBO)	A/T (NON-TURBO)	M/T (TURBO)	
Starter	Output	kW	1.2	2.0	1.2	
	Free running test	Voltage	V			11.0
		Current	A			Max. 90
		Speed	rpm			3,000
	Lock test	Voltage	V			4
		Current	Min. 780	Min. 980	Min. 780	
		Torque N·m (m·kg, ft·lb)	Min. 17.6 (1.79, 13.0)	Min. 22.5 (2.29, 16.6)	Min. 17.6 (1.79, 13.0)	
	Brush	Number				4
		Length mm (in)	Standard	17.5 (0.689)		
			Limit	10.0 (0.394)		
		Spring force	N (kg, lb)			14~23 (1.4~2.4, 3.08~5.28)
	Mica depth	mm (in)	Standard	0.5~0.8 (0.02~0.031)		
Limit			0.2 (0.08)			
Pinion gap (magnetic clutch engaged)		mm (in)			0.5~2.0 (0.02~0.08)	
Operation of magnetic switch					Max. 8V	
Ignition system						
Ignition timing	Leading	ATDC	5°			
	Trailing	ATDC	20°			
Timing mark location		Eccentric shaft pulley				
Spark plug	Type	DENSO	Trailing: S-31A, Leading: S-29A			
		NGK	Trailing: SD11A, Leading: SD10A			
	Gap	mm (in)			2.0 (0.08)	
Ignition coil	Resistance	Primary	Ω			0.2~1.0
High-tension lead	Resistance	Ω/m (3.3 ft)			16,000	
Crank angle sensor resistance	G ① —G ②		Ω			110~210
	Ne ① —Ne ②		Ω			110~210

Item		Engine model	13B
V belt	Deflection	New	12~15 (0.472~0.591)
		Old	14~17 (0.551~0.669)

TIGHTENING TORQUE	N·m	m·kg	ft·lb
Spark plug	12.7~18	1.3~1.8	9.4~13
Starter (Bolt)	31.4~46.1	3.2~4.7	23.1~34
B terminal	9.8~11.2	1.0~1.2	7.2~8.7
Alternator (long bolt)	37.3~52.0	3.8~5.3	27.5~38.3

6. CLUTCH

Item	Specification			
	Turbo model		Non-turbo model	
Clutch pedal	Pedal ratio	6.25 : 1		
	Stroke	mm (in)		135 (5.315)
	Height	236~241 (9.291~9.488)	220~225 (8.660~8.860)	
	Free play	5~13 (0.197~0.512)	0.6~3.0 (0.02~0.12)	
	Engagement height	95 (3.74)	More than 82 (3.23)	
Clutch cover	Set load	N (kg, lb)	5494 (560, 1232)	4807 (490, 1078)
Clutch disc	Facing outer	mm (in)		240 (9.45)
	Facing inner	mm (in)		160 (6.30)
				225 (8.86)
				150 (5.91)

Item			Specification	
			Turbo model	Non-turbo model
Clutch disc	Thickness	Pressure plate side mm (in)	3.5 (0.14)	4.1 (0.16)
		flywheel side mm (in)	3.5 (0.14)	3.5 (0.14)
	Run out limit	mm (in)	1.0 (0.039)	
	Wear limit	mm (in)	0.3 (0.012)	
Master cylinder	Bore	mm (in)	15.87 (0.625)	
Release cylinder	Bore	mm (in)	19.05 (0.750)	

TIGHTENING TORQUE		Turbo and Non-turbo model
Clutch cover	Nm (m-kg, ft-lb)	18 ~ 27 (1.8 ~ 2.7, 13 ~ 20)
Fly wheel	Nm (m-kg, ft-lb)	400 ~ 500 (40 ~ 50, 289 ~ 362)

7A. MANUAL TRANSMISSION

Item			Specification	
			Turbo model	Non-turbo model
Gear ratio	First		3.483	3.475
	Second		2.015	2.002
	Third		1.391	1.366
	Fourth		1.000	
	Fifth		0.762	0.697
	Reverse		3.288	3.493
Oil capacity	liters (US pt, Imp. pt.)	2.5 (2.6, 2.2)		
Mainshaft	Max. permissible run-out mm (in)	0.2 (0.0079)	0.03 (0.0012)	
	Clearance between mainshaft and gear (or bush) mm (in)	0.15 (0.0059)		
Reverse idle gear	Clearance between reverse idle gear bush and shaft mm (in)	0.15 (0.0059)		
Shift fork and rod	Clearance between shift fork and clutch sleeve mm (in)	0.5 (0.0197)		
	Clearance between shift rod gate and control lever mm (in)	0.8 (0.0315)		
Synchronizer ring	Clearance between synchronizer ring and side of gear when fitted			
	Standard mm (in) Wear limit mm (in)	1.5 (0.0591) 0.8 (0.0315)		
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 SAE80W		
	All seasons	A.P.I. Service GL-4 or GL-5 SAE80W-90		

TIGHTENING TORQUE		Turbo model	Non-turbo model
Plug for interlock pin hole	Nm (m-kg, ft-lb)	19 ~ 27 (1.9 ~ 2.7, 14 ~ 20)	10 ~ 15 (1.0 ~ 1.5, 7 ~ 11)
Shift fork set bolts	Nm (m-kg, ft-lb)	39 ~ 59 (4 ~ 6, 29 ~ 43)	12 ~ 16 (1.2 ~ 1.6, 9 ~ 12)
Mainshaft lock nut	Nm (m-kg, ft-lb)	157 ~ 235 (16 ~ 24, 116 ~ 174)	130 ~ 210 (13.3 ~ 21.4, 94 ~ 152)
Top switch	Nm (m-kg, ft-lb)	25 ~ 35 (2.5 ~ 3.6, 18 ~ 25)	
Overdrive switch	Nm (m-kg, ft-lb)	25 ~ 35 (2.5 ~ 3.6, 18 ~ 25)	
Back-up lamp switch	Nm (m-kg, ft-lb)	25 ~ 35 (2.5 ~ 3.6, 18 ~ 25)	
Bearing cover 8T bolts	Nm (m-kg, ft-lb)	18 ~ 26 (1.8 ~ 2.7, 13 ~ 20)	

7B AUTOMATIC TRANSMISSION

Item		Model	L4N71B				
Gear ratio	First		2.841				
	Second		1.541				
	Third		1.000				
	OD (Fourth)		0.720				
	Reverse		2.400				
Fluid	Type		Dexron II				
	Capacity	liters (US qt, Imp. qt)	7.5 (7.9, 6.6)				
Oil pump	Body clearance	Standard	0.02~0.04 (0.00078~0.0015)				
		Limit	0.08 (0.0031)				
	Tip clearance	Standard	0.14~0.21 (0.0055~0.0082)				
		Limit	0.25 (0.0098)				
	Side clearance	Standard	0.05~0.20 (0.0019~0.0078)				
		Limit	0.25 (0.0098)				
	Seal ring and groove clearance	Standard	0.04~0.16 (0.0015~0.0062)				
		Limit	0.40 (0.015)				
Direct clutch	Total clearance	mm (in)	1.6~1.8 (0.062~0.070)				
	Retaining plate size	mm (in)	7.2 (0.28), 7.4 (0.29), 7.6 (0.30), 7.8 (0.307), 8.0 (0.315), 8.2 (0.32)				
	End play	mm (in)	0.5~0.8 (0.019~0.031)				
	Thrust washer size	mm (in)	1.3 (0.051), 1.5 (0.059), 1.7 (0.066), 1.9 (0.074), 2.1 (0.082), 2.3 (0.090), 2.5 (0.098), 2.7 (0.106)				
Front clutch	Total clearance	mm (in)	1.6~1.8 (0.062~0.070)				
	Retaining plate size	mm (in)	7.2 (0.28), 7.4 (0.29), 7.6 (0.30), 7.8 (0.307), 8.0 (0.315), 8.2 (0.32)				
	End play	mm (in)	0.5~0.8 (0.019~0.031)				
	Thrust washer size	mm (in)	1.3 (0.051), 1.5 (0.059), 1.7 (0.066), 1.9 (0.074), 2.1 (0.082), 2.3 (0.090), 2.5 (0.098), 2.7 (0.106)				
Rear clutch	Total clearance	mm (in)	0.8~1.5 (0.031~0.059)				
Low and reverse brake	Total clearance	mm (in)	0.8~1.05 (0.031~0.041)				
	Retaining plate variation size	mm (in)	7.2 (0.28), 7.4 (0.29), 7.6 (0.30) 7.8 (0.307), 8.0 (0.315), 8.2 (0.32)				
OD gear train	End play	mm (in)	0.25~0.50 (0.0098~0.019)				
	Bearing race variation size	mm (in)	1.2 (0.047), 1.4 (0.055), 1.6 (0.062), 1.8 (0.070), 2.0 (0.078), 2.2 (0.086)				
Gear assembly	End play	mm (in)	0.25~0.50 (0.0098~0.019)				
	Bearing race variation size	mm (in)	1.2 (0.047), 1.4 (0.055), 1.6 (0.062), 1.8 (0.070), 2.0 (0.078), 2.2 (0.086)				
	Planetary play limit	mm (in)	Standard	0.2~0.7 (0.0078~0.0275)			
			Limit	0.8 (0.0314)			
Valve spring			Outer dia.	Free length	No. of Coils	Wire dia.	Color
			mm (in)	mm (in)		mm (in)	
Control valve body	Pressure regulator		11.7 (0.46)	43.0 (1.69)	15.0	1.2 (0.047)	—
	1-2 Shift		6.55 (0.26)	32.0 (1.26)	18.7	0.55 (0.022)	—
	2-3 Shift		6.9 (0.27)	39.0 (1.55)	19.1	0.7 (0.028)	—
	3-4 Shift		7.3 (0.29)	25.0 (0.98)	13.0	0.9 (0.035)	—
	Throttle back up		7.3 (0.29)	31.8 (1.25)	15.5	0.8 (0.031)	—
	Solenoid down shift		5.55 (0.22)	21.9 (0.86)	14.0	0.55 (0.022)	—
	2nd Lock		5.55 (0.22)	33.5 (1.32)	18.0	0.55 (0.022)	—
	Throttle relief		6.5 (0.26)	26.8 (1.06)	16.0	0.90 (0.035)	—
	Orifice check		5.0 (0.20)	15.5 (0.61)	12.0	0.23 (0.0091)	—
3-2 Timing		7.5 (0.30)	23.2 (0.91)	10.8	0.80 (0.031)	—	

	Outer dia. mm (in)	Free length mm (in)	No. of Coils	Wire dia. mm (in)	Color
OD control	4.95 (0.19)	23.0 (0.91)	14.8	0.65 (0.026)	—
Lock up control	5.5 (0.22)	24.7 (0.97)	15.5	0.7 (0.03)	—
Accumulator piston	14.85 (0.58)	39.7 (1.56)	9.3	1.8 (0.07)	—
2nd Band servo	Return	—	—	3.5 (0.14)	—
	Cushion	14.9 (0.59)	42.8 (1.69)	11.2	2.3 (0.09)
Primary governor valve	8.75 (0.34)	21.8 (0.86)	7.0	0.45 (0.018)	—
Secondary governor valve	9.2 (0.36)	25.2 (0.99)	7.5	0.7 (0.028)	—

Shift speed		
Throttle condition (Manifold vacuum)	Gear	Vehicle speed km/h (mph)
Fully opened 0 ~ 100 mm-Hg 0 ~ 3.94 in-Hg	D ₁ → D ₂	54 ~ 61 (34 ~ 38)
	D ₂ → D ₃	99 ~ 106 (62 ~ 66)
	D ₃ → D ₂	91 ~ 98 (57 ~ 61)
	D ₂ → D ₁	40 ~ 46 (25 ~ 29)
Half throttle 190 ~ 210 mm-Hg 7.41 ~ 8.19 in-Hg	D ₁ → D ₂	11 ~ 18 (7 ~ 11)
	D ₂ → D ₃	30 ~ 37 (19 ~ 23)
	D ₃ → D ₄	48 ~ 54 (30 ~ 34)
Fully closed	D ₂ → D ₁	11 ~ 18 (7 ~ 11)
	1 ₂ → 1 ₁	38 ~ 45 (24 ~ 28)
Lock up on		71 ~ 77 (44 ~ 48)
Governor pressure		
Vehicle speed	km/h (mph)	Pressure kPa (kg/cm ² , psi)
30 (19)		69 ~ 128 (0.7 ~ 1.3, 10 ~ 18)
55 (34)		147 ~ 226 (1.5 ~ 2.3, 21 ~ 33)
85 (53)		196 ~ 392 (2.0 ~ 4.0, 28 ~ 57)
Line pressure		
Shift position	Engine speed	Pressure kPa (kg/cm ² , psi)
R	Idle	392 ~ 686 (4.0 ~ 7.0, 57 ~ 100)
	Stall	1,569 ~ 1,863 (16.0 ~ 19.0, 229 ~ 272)
D	Idle	294 ~ 392 (3.0 ~ 4.0, 43 ~ 57)
	Stall	883 ~ 1,079 (9.0 ~ 11.0, 129 ~ 157)
2	Idle	785 ~ 1,177 (8.0 ~ 12.0, 114 ~ 171)
	Stall	785 ~ 1,177 (8.0 ~ 12.0, 114 ~ 171)
Engine stall revolution	rpm	2,000 ~ 2,300
Vacuum diaphragm	Clearance between body and throttle valve mm (in)	Adjusting rod length mm (in)
	Below 25.65 (1.0099)	29.0 (1.14)
	25.65 ~ 26.15 (1.0099 ~ 1.0295)	29.5 (1.16)
	26.15 ~ 26.65 (1.0295 ~ 1.0492)	30.0 (1.18)
	26.65 ~ 27.15 (1.0492 ~ 1.0689)	30.5 (1.20)
	27.15 (1.0689) or over	31.0 (1.22)

TIGHTENING TORQUE	N-m	m-kg	ft-lb
Drive plate to engine	81 ~ 93	8.3 ~ 9.5	60 ~ 69
Drive plate to torque converter	34	3.5	25
Converter housing to engine	31 ~ 46	3.2 ~ 4.7	23 ~ 34
Converter housing to transmission case	44 ~ 54	4.5 ~ 5.5	33 ~ 40
Extension housing to transmission case	20 ~ 25	2.0 ~ 2.5	15 ~ 18
Oil pan	4.9 ~ 6.9	0.5 ~ 0.7	3.6 ~ 5.1
Piston stem (when adjusting band brake)	12 ~ 15	1.2 ~ 1.5	8.7 ~ 11
Piston stem lock nut	15 ~ 39	1.5 ~ 4.0	11 ~ 29
Servo piston retainer	6.9 ~ 8.8	0.7 ~ 0.9	5.1 ~ 6.5

TIGHTENING TORQUE	N-m	m-kg	ft-lb
One-way clutch inner race	13~18	1.3~1.8	9.4~13.0
Control valve body to transmission case	5.4~7.4	0.55~0.75	4.0~5.4
Lower valve body to upper valve body	2.5~3.4	0.25~0.35	1.8~2.5
Side plate to control valve body	2.5~3.4	0.25~0.35	1.8~2.5
Reamer bolt of control valve body	4.9~6.9	0.5~0.7	3.6~5.1
Oil strainer	2.9~3.9	0.3~0.4	2.1~2.9
Governor valve body to oil distributor	4.9~6.9	0.5~0.7	3.6~5.1
Oil pump cover	5.9~8.8	0.6~0.9	4.3~6.5
Drum support	5.9~8.8	0.6~0.9	4.3~6.5
Inhibitor switch	4.9~6.9	0.5~0.7	3.6~5.1
Manual shaft lock nut	29~39	3.0~4.0	22~29
Oil cooler pipe set bolt	24~35	2.4~3.6	17~26
Oil pressure test plug	4.9~9.8	0.5~1.0	3.6~7.2
Actuator for parking rod to extension housing	7.8~11	0.8~1.1	5.8~8.0

8. PROPELLER SHAFT

Item		Specification	
		Turbo model	Non-turbo model
Max. permissible runout	mm (in)	0.4 (0.016)	
Max. permissible imbalance at 4,000 rpm	M/T	10 (0.14)	
	cm-gr (in oz.)	—	15 (0.21)
Universal joint journal swinging torque	N-m (cm-kg, in-lb)	0.3~9.8 (3.0~10, 26~86)	

TIGHTENING TORQUE	Turbo model	Non-turbo model
Propeller shaft to companion flange N-m (m-kg, ft-lb)	49~59 (5.0~6.0, 36~43)	

9. REAR AXLE

Item		Specification	
		Turbo model	Non-turbo model
Reduction ratio M/T (A/T)		4.1 (—)	4.1 (3.909)
Backlash of ring gear and pinion	mm (in)	0.09~0.11 (0.0035~0.0043)	
Pinion bearing preload (without pinion oil seal)	N-m (in-lb)	0.9~1.4 (7.8~12.2)	
Backlash at side gear and pinion gear	mm (in)	0~0.1 (0~0.0039)	
Rear wheel bearing end play	mm (in)	0~0.1 (0~0.0039)	
Lubricant	Standard diff.	Above -18°C (0°F)	A.P.I. Service GL-5 SAE90
		Below -18°C (0°F)	A.P.I. Service GL-5 SAE80W
	Limited slip diff.	A.P.I. Service GL-5 SAE90 (Special Lubricant For Limited Slip Differentials)	
Oil capacity	Standard diff. liters (US qt, Imp qt)	1.3 (1.4, 1.1)	
	Limited slip diff. liters (US qt, Imp qt)	1.3 (1.4, 1.1)	
"L" (case spread)	mm (in)	204.43~204.50 (8.048~8.051)	185.43~185.50 (7.300~7.303)

TIGHTENING TORQUE	Turbo and Non-turbo model
Rear gear N-m (m-kg, ft-lb)	69~83 (7.0~8.5, 51~61)
Differential side bearing caps N-m (m-kg, ft-lb)	37~52 (3.8~5.3, 27~38)
Companion flange to pinion N-m (m-kg, ft-lb)	128~177 (13.0~18.0, 94~130)
Differential carrier and case N-m (m-kg, ft-lb)	23~26 (2.3~2.7, 17~20)
Differential carrier mounting N-m (m-kg, ft-lb)	88~105 (9.0~10.7, 65~77)

TIGHTENING TORQUE		Turbo and Non-turbo model
Differential member	N·m (m·kg, ft·lb)	74 ~ 93 (7.5 ~ 9.5, 54 ~ 69)
Sub link	N·m (m·kg, ft·lb)	74 ~ 93 (7.5 ~ 9.5, 54 ~ 69)
Driveshaft (differential side)	N·m (m·kg, ft·lb)	54 ~ 64 (5.5 ~ 6.5, 40 ~ 47)

10A. MANUAL STEERING

Item	Specification
Type	Rack and pinion
Gear ratio	∞ (infinite)
Free play of steering wheel (Turning direction)	5 ~ 20 (0.2 ~ 0.8)
Standard	mm (in)
Steering wheel effort (Front wheel alignment)	5 ~ 8 (0.5 ~ 0.8; 1 ~ 2)
	N(kg, lb)
Toe-in	3 ± 3 (0.12 ± 0.12)
	mm (in)
Camber angle	0°20'
Caster angle	4°40'
King-pin angle	13°45'
Trail	14.3 (0.52)
	mm (in)
Backlash between rack and pinion	0
Pinion preload (spring scale)	3.5 ~ 10.6 (100 ~ 300)
	OZ (g)

TIGHTENING TORQUE	N·m	m·kg	ft·lb
Steering wheel nut	39 ~ 49	4.0 ~ 5.0	29 ~ 36
Gear housing to frame	31 ~ 46	3.2 ~ 4.7	23 ~ 34
Tie-rod end to lower arm	29 ~ 44	3.0 ~ 4.5	22 ~ 33
Tie-rod to rack	69 ~ 98	7 ~ 10	51 ~ 72
Pinion lock nut	39 ~ 59	4.0 ~ 6.0	29 ~ 43
Adjust cover lock nut	39 ~ 59	4.0 ~ 6.0	29 ~ 43

10B. POWER STEERING

Item	Specification
Type	Rack and pinion
Reduction ratio	∞ (infinite)
Steering wheel effort	Vehicle speed 0 km/h (0 mph) N (kg, lb)
	Vehicle speed 45 km/h (30 mph) N (kg, lb)
Pinion rotation torque (spring gauge reading) g (oz)	700 ~ 1,300 (24.7 ~ 45.9)
Fluid	ATF TYPE F (M2C33-F)

TIGHTENING TORQUE	N·m	m·kg	ft·lb
Steering wheel nut	39 ~ 49	4.0 ~ 5.0	29 ~ 36
Gear housing to frame	31 ~ 46	3.2 ~ 4.7	23 ~ 34
Tie-rod end to lower arm	29 ~ 44	3.0 ~ 4.5	22 ~ 33
Tie-rod to rack	69 ~ 98	7 ~ 10	51 ~ 72
Pinion lock nut	20 ~ 29	2.0 ~ 3.0	14 ~ 22
Oil pump body to bracket	31 ~ 36	3.2 ~ 3.7	23 ~ 27
Oil pump pulley and shaft	39 ~ 49	4.0 ~ 5.0	29 ~ 36
Suction pipe	14 ~ 18	1.4 ~ 1.8	10 ~ 13
Rear cover	31 ~ 42	3.2 ~ 4.3	23 ~ 31

TIGHTENING TORQUE	N-m	m-kg	ft-lb
Tank reservoir	14 ~ 18	1.4 ~ 1.8	10 ~ 13
Pressure switch	20 ~ 39	2.0 ~ 3.0	15 ~ 22
Step valve	69 ~ 79	7.0 ~ 8.0	51 ~ 58

11. BRAKING SYSTEM

Item		Specification	
Brake pedal	Height mm (in)	205 ⁺⁵ / ₀ (8.07 ^{+0.2} / ₀)	
	Free play mm (in)	4 ~ 7 (0.16 ~ 0.28)	
	Reserve travel mm (in) (Clearance when pedal is depressed)	More than 100 (3.94)	
Master cylinder	Type	Tandem	
	Bore mm (in)	22.22 (0.875)	
	Fluid type	FMVSS116, DOT-3 or 4, or SAEJ1703a	
Front brake	Type	Disc	
	Thickness of pad mm (in)	Standard	9.0 (0.35).....14 in. wheel vehicle 11.0 (0.43).....Except 14 in. wheel vehicle
		Limit	1.0 (0.04).....14 in. wheel vehicle 3.0 (0.12).....Except 14 in. wheel vehicle
	Thickness of disc plate mm (in)	Standard	22.0 (0.87)
		Limit	20.0 (0.79)
	Disc plate run-out mm (in)		0.1 (0.004)
Wheel cylinder bore mm (in)		50.8 (2.0).....14 in. wheel vehicle 36.1 (1.42).....Except 14 in. wheel vehicle	
Rear brake	Type	Disc	
	Thickness of pad mm (in)	Standard	8.0 (0.31)
		Limit	1.0 (0.04)
	Thickness of disc plate mm (in)	Standard	10.0 (0.40).....14 in. wheel vehicle 20.0 (0.79).....Except 14 in. wheel vehicle
		Limit	8.0 (0.31).....14 in. wheel vehicle 18.0 (0.71).....Except 14 in. wheel vehicle
	Disc plate run-out mm (in)		0.1 (0.004)
Wheel cylinder bore mm (in)		34.9 (1.37)	
Parking brake	Type	Auto adjustment, rear brake	
	Lever notches (Pulled at 98 N (10 kg, 22 lb))	4 ~ 5	
Power brake unit	Diameter mm (in)	203.2 (8).....14 in. wheel vehicle 228.6 (9).....Except 14 in. wheel vehicle	
	Clearance between master cylinder and brake unit mm (in)	0.1 ~ 0.3 (0.004 ~ 0.012)	
	Fluid pressure per treading force kPa (kg/cm ² , psi)/N (kg, lb)	More than 2,158 (22, 312)/196 (20, 44) at 0 mm Hg (0 in-Hg) More than 8,339 (85, 1,209)/196 (20, 44) at 500 mm Hg (19.7 in-Hg).....Except 14 in. wheel vehicle More than 7,063 (72, 1,024)/196 (20, 44) at 500 mmHg (19.7 in-Hg).....14 in. wheel vehicle	
Rear wheel hydraulic control system	Type	Proportioning bypass valve	
	Bend portion (Rear brake pressure) kPa (kg/cm ² , psi)	2,600 ~ 3,286 (26.5 ~ 33.5, 377 ~ 476)	

TIGHTENING TORQUE		N-m	m-kg	ft-lb
Lock pin bolt	Front..... Only for 14 in. wheel vehicle	31 ~ 41	3.2 ~ 4.2	23 ~ 30
	Rear	29 ~ 41	3.0 ~ 4.2	22 ~ 30
Front caliper Except 14 in. wheel vehicle		78 ~ 98	8.0 ~ 10.0	58 ~ 72
Mounting support	Front..... Only for 14 in. wheel vehicle	78 ~ 98	8.0 ~ 10.0	58 ~ 72
	Rear	44 ~ 54	4.5 ~ 5.5	33 ~ 40
Master cylinder to power brake unit		9.8 ~ 16	1.0 ~ 1.6	7.2 ~ 12
Dust cover to knuckle spindle or triaxial floating hub (outer)		16 ~ 23	1.6 ~ 2.3	12 ~ 17

12. WHEELS AND TIRES

Item		Specifications	
Wheel	Run-out mm (in)	Radial	0.4 (0.02)
		Lateral	0.4 (0.02)
	Offset	mm (in)	40 (1.57)
	Size		6-JJ x 15, 5.5-JJ x 14, 7-JJ x 16
	Pitch circle diameter	mm (in)	114.3 (4.50)
Tire	Size	205/60 VR15, 185/70 HR 14, 185/70R1487H, 205/55 VR16	
	Inflation pressure	kPa (kg/cm ² , psi)	216 (2.2, 32)
Wheel and tire	Run-out limit mm (in)	Radial	2.0 (0.08)
		Lateral	2.0 (0.08)
	Unbalance limit	N (g, lb)	0.2 (20, 0.04)

TIGHTENING TORQUE		N-m	m-kg	ft-lb
Wheel lug nut		90 ~ 120	9.0 ~ 12.0	65 ~ 87

13. SUSPENSION

Front Suspension

Item		Specifications	
Suspension type		Strut	
Springs	Type	Coil	
	Wire diameter mm (in)	Right	12.0 (0.47), *11.8 (0.46)
		Left	12.2 (0.48), *12.0 (0.47)
	Coil diameter mm (in)	Right	147.0 (5.79), *146.8 (5.78)
		Left	147.2 (5.80), *147.0 (5.79)
	Free length mm (in)	Right	355.5 (14.0), *327.0 (12.9)
		Left	366.0 (14.4), *336.5 (13.2)
	Coil number	Right	5.83, *5.31
Left		6.05, *5.51	
Stabilizer	Type	Torsion bar	
	Diameter	mm (in)	22.0 (0.87), *24.0 (0.94)
Ball joint preload		N (kg, lb)	20 ~ 34 (2.0 ~ 3.5, 4.4 ~ 7.7)

* For harder suspension

Rear Suspension

Item		Specifications
Suspension type		Multilink Semi-trailing
Springs	Type	Coil
	Wire diameter	mm (in) 9.9 (0.39), *10.1 (0.39)
	Coil diameter	mm (in) 84.6 (3.33), *84.4 (3.32)
	Free length	mm (in) 367 (14.45), *355 (14.0)
	Coil number	10.81, *10.79
Stabilizer	Type	Torsion bar
	Diameter	mm (in) 13 (0.51)
Toe-in		mm (in) 0 ± 3 (0 ± 0.12)

*For harder suspension

TIGHTENING TORQUE		N-m	m-kg	ft-lb	
Front	Shock absorber piston rod to mounting block		20 ~ 28	2.0 ~ 2.9	14 ~ 21
	Mounting block to suspension tower		29 ~ 36	3.0 ~ 3.7	22 ~ 27
	Shock absorber to knuckle		93 ~ 117	9.5 ~ 11.9	69 ~ 86
	Lower arm to cross member	Front	63 ~ 93	6.4 ~ 9.5	46 ~ 69
		Rear	59 ~ 74	6.0 ~ 7.5	43 ~ 54
	Cross member to body		93 ~ 117	9.5 ~ 11.9	69 ~ 86
	Stabilizer bracket		18 ~ 26	1.8 ~ 2.7	13 ~ 20
	Stabilizer control link to stabilizer or lower arm		36 ~ 50	3.7 ~ 5.1	27 ~ 37
Rear	Ball joint to lower arm		93 ~ 117	9.5 ~ 11.9	69 ~ 86
	Shock absorber piston rod to mounting block		34 ~ 50	3.5 ~ 5.1	25 ~ 37
	Mounting block to suspension tower		23 ~ 29	2.3 ~ 3.0	17 ~ 22
	Shock absorber to trailing arm		63 ~ 93	6.4 ~ 9.5	46 ~ 69
	Stabilizer bracket		36 ~ 54	3.7 ~ 5.5	27 ~ 40
	Stabilizer control link to stabilizer or trailing arm		36 ~ 54	3.7 ~ 5.5	27 ~ 40
	Subframe to body		98 ~ 128	10 ~ 13	72 ~ 94
	Trailing arm to subframe		63 ~ 95	6.4 ~ 9.7	46 ~ 70
	Trailing arm to control link		36 ~ 54	3.7 ~ 5.5	27 ~ 40
	Control link to subframe		36 ~ 54	3.7 ~ 5.5	27 ~ 40
	Lateral link		29 ~ 44	3.0 ~ 4.5	22 ~ 33
	Sublink		74 ~ 93	7.5 ~ 9.5	54 ~ 69
	Triaxial floating hub (inner) to triaxial floating hub (outer)	Upper	63 ~ 93	6.4 ~ 9.5	46 ~ 69
		Middle	112 ~ 151	11.4 ~ 15.4	82 ~ 111
Lower		63 ~ 93	6.4 ~ 9.5	46 ~ 69	

15. BODY ELECTRICAL SYSTEM

Item		Specification (W) (BULB TRADE NO.)
Front exterior lights	Headlight	Halogen 65/35 (HP6054, H6054)
		Standard 65/55 (6052)
	Turn signal/Parking light 27/8 (1157)	
	Side marker light 3.8 (194)	
Rear exterior lights	Back-up light 27 (1156)	
	License plate light 7.5 (89)	
	Stop/Tail light 27/8 (1157)	
	High mounted stop light 27 (1156)	
	Turn signal light 27 (1156)	
Side marker light 3.8 (194)		

Item		Specification (W) (BULB TRADE No.)	
Interior lights	Interior light	10	
	Glove compartment light	3.4 (158)	
	Luggage compartment light	5	
	Map light	5	
	Courtesy light	3.4 (158)	
Indicator and warning lights	Shift up	3.4 (158)	
	Alternator	1.12	
	Brake	1.12	
	Add. coolant	1.12	
	Antilock	1.12	
	Cooling fan	in warning and clock unit	1.12
		in meter unit	1.4
	Fuel	1.4	
	Hazard	3.4 (158)	
	High beam	3.4 (158)	
	Over heat exhaust system	1.12	
	Front doors	1.12	
	Main	1.4	
	Cruise	1.4	
	Seat belt	1.12	
	Engine oil level	1.12	
	Rear glass hatch	1.12	
	Stop	1.12	
	Turn signal	3.4	
	Washer level	1.12	
	O/D OFF	1.4	
	Security light	3.4	
	Illumination lights	Automatic selector	3.4 (158)
Cigarette lighter		3.4 (158)	
Door key		1.4	
Ignition key		3.4	
Meter		3.4	

STANDARD BOLT AND NUT TIGHTENING TORQUE

Diameter mm (in)	Pitch mm (in)	4T			6T			8T		
		N-m	m-kg	ft-lb	N-m	m-kg	ft-lb	N-m	m-kg	ft-lb
6 (0.236)	1 (0.039)	4.2~6.2	0.43~0.63	3.1~4.6	6.9~9.8	0.7~1.0	5.0~7.2	7.8~11.8	0.8~1.2	5.8~8.8
8 (0.315)	1.25 (0.049)	9.8~14.7	1.0~1.5	7.2~10.8	16~23	1.6~2.3	12~17	18~26	1.8~2.7	13~20
10 (0.394)	1.25 (0.049)	20~28	2.0~2.9	14~21	31~46	3.2~4.1	23~34	36~54	3.7~5.5	27~40
12 (0.472)	1.5 (0.059)	34~50	3.5~5.1	25~37	55~80	5.6~8.2	41~59	63~93	6.4~9.5	46~69
14 (0.551)	1.5 (0.059)	—	—	—	75~103	7.7~10.5	56~76	102~137	10~14	75~101
16 (0.630)	1.5 (0.059)	—	—	—	116~157	12~16	85~116	156~211	16~22	115~156
18 (0.709)	1.5 (0.059)	—	—	—	167~225	17~23	123~166	221~299	23~31	163~221
20 (0.787)	1.5 (0.059)	—	—	—	231~314	24~32	171~231	308~417	31~43	227~307
22 (0.866)	1.5 (0.059)	—	—	—	314~423	32~43	231~312	417~564	43~58	307~416
24 (0.945)	1.5 (0.059)	—	—	—	475~546	41~56	298~403	536~726	55~74	396~536