

# TECHNICAL DATA

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05UTDX-001

## A. MEASUREMENTS

Item		Measurements	
Overall length	mm (in)	3,948 (155.4)	
Overall width	mm (in)	1,676 (65.9)	
Overall height	mm (in)	1,224 (48.2)	
Wheelbase	mm (in)	2,266 (89.2)	
Tread	Front	mm (in)	1,410 (55.5)
	Rear	mm (in)	1,428 (56.2)

## B. ENGINE

Item		Engine	B6 DOHC
Type			Gasoline, 4-cycle
Cylinder arrangement and number			In-line, 4-cylinders
Combustion chamber			Pentroof
Valve system			DOHC, belt-driven 16 valves
Bore x Stroke		mm (in)	78.0 x 83.6 (3.07 x 3.29)
Total piston displacement		cc (cu in)	1,597 (97.42)
Compression ratio			9.4
Compression pressure kPa (kg/cm <sup>2</sup> , psi)-rpm	Standard		1,324 (13.5, 192)-300
	Minimum		932 (9.5, 135)-300
	Maximum difference between each cylinder		196 (2.0, 28)
Valve timing	IN	Open BTDC	5°
		Close ABDC	51°
	EX	Open BBDC	53°
		Close ATDC	15°
Valve clearance	mm (in)	IN	0: Maintenance-free
		EX	0: Maintenance-free
<b>Cylinder head</b>			
Height		mm (in)	133.8—134.0 (5.268—5.276)
Distortion		mm (in)	0.15 (0.006) max.
Grinding		mm (in)	0.20 (0.008) max.
Cylinder head-to-HLA clearance	mm (in)	Standard	0.025—0.066 (0.0010—0.0026)
		Maximum	0.18 (0.0071)
<b>Valve and valve guide</b>			
Valve head diameter	mm (in)	IN	30.9—31.1 (1.217—1.224)
		EX	26.1—26.3 (1.028—1.035)
Valve head margin thickness	mm (in)	IN	1.0 (0.039)
		EX	1.0 (0.039)
Valve face angle		IN	45°
		EX	45°
Valve length	IN	Standard	105.29 (4.1452)
		Minimum	104.79 (4.1256)
	EX	Standard	105.39 (4.1492)
		Minimum	104.89 (4.1295)
Valve stem diameter	mm (in)	IN	5.970—5.985 (0.2350—0.2356)
		EX	5.965—5.980 (0.2348—0.2354)
Guide inner diameter		mm (in)	6.01—6.03 (0.2366—0.2374)
Valve stem-to-guide clearance	mm (in)	IN	0.025—0.060 (0.0010—0.0024)
		EX	0.030—0.065 (0.0012—0.0026)
		Maximum	0.20 (0.008)
Guide projection (Height "A")	mm (in)	IN	16.8—17.4 (0.661—0.685)
		EX	16.8—17.4 (0.661—0.685)
<b>Valve seat</b>			
Seat angle		IN	45°
		EX	45°

Item		Engine	B6 DOHC	
Seat contact width		mm (in)	0.8—1.4 (0.031—0.055)	
Seat sinking		mm (in)	Standard	
		Maximum	43.5 (1.713) 45.0 (1.772)	
<b>Valve spring</b>				
Free length		mm (in)	IN	
			Standard	48.0 (1.890)
		EX	Minimum	47.0 (1.850)
			Standard	48.3 (1.902)
Out-of-square		mm (in)	IN	
		EX	1.68 (0.0661) max. 1.69 (0.0665) max.	
Setting load/height		N (kg, lb)/mm (in)	IN	
			EX	217—246 (22.1—25.1, 48.6—55.2)/40.0 (1.575) 174—196 (17.7—20.0, 38.9—44.0)/40.0 (1.575)
<b>Camshaft</b>				
Cam height		mm (in)	IN	
			Standard	40.888 (1.6098)
		EX	Minimum	40.688 (1.6019)
			Standard	40.889 (1.6098)
Journal diameter		mm (in)	EX	
			Minimum	40.689 (1.6019)
Journal diameter		mm (in)	Standard	
			Out-of-round	25.940—25.965 (1.0213—1.0222) 0.05 (0.002) max.
Camshaft bearing oil clearance		mm (in)	Standard	
			Maximum	0.035—0.081 (0.0014—0.0032) 0.15 (0.006)
Camshaft runout		mm (in)	0.03 (0.0012) max.	
Camshaft end play		mm (in)	Standard	
			Maximum	0.07—0.19 (0.0028—0.0075) 0.20 (0.008)
<b>Cylinder block</b>				
Height		mm (in)	221.5 (8.720)	
Distortion		mm (in)	0.15 (0.006) max.	
Grinding		mm (in)	0.20 (0.008) max.	
Cylinder bore diameter		mm (in)	Standard size	
			0.25 (0.010) oversize	78.006—78.013 (3.0711—3.0714) 78.256—78.263 (3.0809—3.0812)
			0.50 (0.020) oversize	78.506—78.513 (3.0908—3.0911)
Cylinder bore taper and out-of-round		mm (in)	0.019 (0.0007) max.	
<b>Piston</b>				
Piston diameter		mm (in)	Standard size	
			0.25 (0.010) oversize	77.954—77.974 (3.0690—3.0698) 78.211—78.217 (3.0792—3.0794)
			0.50 (0.020) oversize	78.461—78.467 (3.0890—3.0892)
Piston-to-cylinder clearance		mm (in)	Standard	
			Maximum	0.039—0.052 (0.0015—0.0020) 0.15 (0.006)
<b>Piston ring</b>				
Thickness		mm (in)	Top	
			Second	1.47—1.49 (0.0579—0.0587) 1.47—1.49 (0.0579—0.0587)
End gap (Measured in cylinder)		mm (in)	Top	
			Second	0.15—0.30 (0.006—0.012) 0.15—0.30 (0.006—0.012)
			Oil (rail)	0.20—0.70 (0.008—0.028)
			Maximum	1.0 (0.039)
			Ring groove width in piston	mm (in)
Ring groove width in piston		mm (in)	Second	
			Oil	1.52—1.54 (0.0598—0.0606) 1.52—1.54 (0.0598—0.0606) 4.02—4.04 (0.1583—0.1591)
			Top	0.03—0.07 (0.0012—0.0028) 0.03—0.07 (0.0012—0.0028)
Piston ring-to-ring groove clearance		mm (in)	Second	
			Maximum	0.03—0.07 (0.0012—0.0028) 0.15 (0.006)
			Maximum	0.15 (0.006)
<b>Piston pin</b>				
Diameter		mm (in)	19.987—19.993 (0.7869—0.7871)	
Piston-to-piston pin clearance		mm (in)	-0.005—0.013 (-0.0002—0.0005)	
Connecting rod bush-to-piston pin clearance		mm (in)	0.010—0.027 (0.0004—0.0011)	

Item		Engine	B6 DOHC	
<b>Connecting rod and connecting rod bearing</b>				
Length (Center to center)		mm (in)	132.85—132.95 (5.230—5.234)	
Bending		mm (in)	0.075 (0.0030) max./50 (1.97)	
Small end bore (Bush inner diameter)		mm (in)	20.003—20.014 (0.7875—0.7880)	
Big end bore		mm (in)	48.000—48.016 (1.8898—1.8904)	
Big end width		mm (in)	21.838—21.890 (0.8598—0.8618)	
Connecting rod side clearance		mm (in)	0.110—0.262 (0.0043—0.0103)	
		Standard		
		Maximum	0.30 (0.012)	
<b>Crankshaft</b>				
Crankshaft runout		mm (in)	0.04 (0.0016) max.	
Main journal diameter		Standard size	Standard	49.938—49.956 (1.9661—1.9668)
			Minimum	49.904 (1.9647)
		0.25 (0.010) undersize	Standard	49.704—49.708 (1.9568—1.9570)
			Minimum	49.652 (1.9548)
		0.50 (0.020) undersize	Standard	49.454—49.458 (1.9470—1.9472)
			Minimum	49.402 (1.9450)
		0.75 (0.030) undersize	Standard	49.204—49.208 (1.9372—1.9373)
			Minimum	49.152 (1.9351)
Main journal taper and out-of-round		mm (in)	0.05 (0.0020) max.	
Crankpin diameter		Standard size	Standard	44.940—44.956 (1.7693—1.7699)
			Minimum	44.908 (1.7680)
		0.25 (0.010) undersize	Standard	44.690—44.706 (1.7594—1.7601)
			Minimum	44.658 (1.7582)
		0.50 (0.020) undersize	Standard	44.440—44.456 (1.7496—1.7502)
			Minimum	44.408 (1.7483)
		0.75 (0.030) undersize	Standard	44.190—44.206 (1.7398—1.7404)
			Minimum	44.158 (1.7385)
Crankpin taper and out-of-round		mm (in)	0.05 (0.0020) max.	
<b>Main bearing</b>				
Main journal bearing oil clearance		mm (in)	0.018—0.036 (0.0007—0.0014)	
		Standard		
		Maximum	0.10 (0.004)	
Available undersize bearing		mm (in)	0.25 (0.010), 0.50 (0.020), 0.75 (0.030)	
<b>Crankpin bearing</b>				
Crankpin bearing oil clearance		mm (in)	0.028—0.068 (0.0011—0.0027)	
		Standard		
		Maximum	0.10 (0.004)	
Available undersize bearing		mm (in)	0.25 (0.010), 0.50 (0.020), 0.75 (0.030)	
<b>Thrust bearing</b>				
Crankshaft end play		mm (in)	0.080—0.282 (0.0031—0.0111)	
		Standard		
		Maximum	0.30 (0.012)	
Bearing width		mm (in)	Standard size	2.500—2.550 (0.0984—0.1004)
			0.25 (0.010) oversize	2.625—2.675 (0.1033—0.1053)
			0.50 (0.020) oversize	2.750—2.800 (0.1083—0.1102)
			0.75 (0.030) oversize	2.875—2.925 (0.1132—0.1152)
<b>Timing belt</b>				
Belt deflection		mm (in)/98 N (10 kg, 22 lb)	9.0—11.5 (0.35—0.45)	

## D. LUBRICATION SYSTEM

Item		Engine	B6 DOHC
Lubricating method			Force-fed
<b>Oil pump</b>			
Type			Trochoid gear
Relief pressure		kPa (kg/cm <sup>2</sup> , psi)	343—441 (3.5—4.5, 50—64)
Oil pressure		kPa (kg/cm <sup>2</sup> , psi)	196—294 (2.0—3.0, 28—43)
		1,000 rpm	
		3,000 rpm	294—392 (3.0—4.0, 43—57)

Item		Engine	B6 DOHC
Inner rotor tooth tip to outer rotor clearance	mm (in)	Standard	0.02—0.16 (0.0008—0.0063)
		Maximum	0.20 (0.0079)
Outer rotor to body clearance	mm (in)	Standard	0.09—0.18 (0.0035—0.0071)
		Maximum	0.22 (0.0087)
Side clearance	mm (in)	Standard	0.03—0.11 (0.0012—0.0043)
		Maximum	0.14 (0.0055)
<b>Oil filter</b>			
Type		Full-flow, paper element	
Relief pressure differential		kPa (kg/cm <sup>2</sup> , psi)	78—118 (0.8—1.2, 11—17)
<b>Engine oil</b>			
Capacity liters (US qt, Imp qt)	Total (dry engine)		3.6 (3.8, 3.2)
	Oil pan		3.2 (3.4, 2.8)
	Oil filter		0.17 (0.18, 0.15)
Grade		API Service SF or SG	
Viscosity number	Above 30°C (86°F)		SAE 40
	0°C—40°C (32°F—104°F)		SAE 30
	-10°C—20°C (14°F—68°F)		SAE 20W-20
	Above -10°C (14°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 0°C (32°F)		SAE 5W-30
	Below -20°C (-4°F)		SAE 5W-20

**E. COOLING SYSTEM**

Item		Engine	B6 DOHC
Cooling method		Water-cooled, forced circulation	
<b>Water pump</b>			
Type		Centrifugal, V-belt driven	
Impeller diameter	mm (in)	75 (2.95)	
Number of impeller blades		6	
Speed ratio		1 : 1.05	
Water seal type		Unified mechanical seal	
<b>Thermostat</b>			
Type		Wax, two-stage	
Opening temperature	°C (°F)	Sub: 83.5—86.5 (182—188), Main: 86.5—89.5 (188—193)	
Full-open temperature	°C (°F)	100 (212)	
Full-open lift	mm (in)	Sub: 1.5 (0.06) min., Main: 8.0 (0.31) min.	
<b>Radiator</b>			
Type		Corrugated fin	
Cap valve opening pressure	kPa (kg/cm <sup>2</sup> , psi)	74—103 (0.75—1.05, 11—15)	
Cooling circuit checking pressure	kPa (kg/cm <sup>2</sup> , psi)	103 (1.05, 15)	
<b>Cooling fan</b>			
Type		Electric	
Number of blades		5	
Outer diameter	mm (in)	320 (12.6)	
Switching temperature OFF → ON	°C (°F)	97 (207)	
Capacity	W—V	70—12	
Current	A	5.3—6.5	
<b>Coolant</b>			
Capacity	liters (US qt, Imp qt)	6.0 (6.3, 5.3)	

Item		Engine	B6 DOHC		
Antifreeze solution	Coolant protection		Volume percentage %		Specific gravity at 20°C (68°F)
			Water	Coolant	
	Above -16°C (3°F)		65	35	1.054
	Above -26°C (-15°F)		55	45	1.066
	Above -40°C (-40°F)		45	55	1.078

### F. FUEL AND EMISSION CONTROL SYSTEMS

Item		Specification	
Idle speed	rpm	850 ± 50 *	
Ignition timing	BTDC	10° ± 1° *	
<b>Throttle body</b>			
Type		Horizontal draft	
Throat diameter	mm (in)	55 (2.2)	
<b>Dashpot</b>			
Adjustment speed	rpm	2,500 ± 150	
<b>Airflow meter</b>			
Resistance	E2 ↔ Vs	Fully closed	200—600
		Fully open	20—1,000
	E2 ↔ Vc		200—400
		E2 ↔ THAA (Intake air thermosensor)	-20°C (-4°F)
	20°C (68°F)		2,210—26,90
	60°C (140°F)		493—667
	E1 ↔ Fc	Fully closed	∞
Fully open		0	
<b>Fuel pump</b>			
Type		Impeller (in-tank)	
Output pressure	kPa (kg/cm <sup>2</sup> , psi)	441—589 (4.5—6.0, 64—85)	
<b>Fuel filter</b>			
Type	Low-pressure side	Nylon element	
	High-pressure side	Paper element	
<b>Pressure regulator</b>			
Type		Diaphragm	
Regulating pressure	kPa (kg/cm <sup>2</sup> , psi)	265—314 (2.7—3.2, 38—46)	
<b>Injector</b>			
Type		High-ohmic	
Type of drive		Voltage	
Resistance	Ω	12—16 (at 20°C, 68°F)	
<b>ISC valve (Solenoid valve [Idle speed control])</b>			
Solenoid resistance	Ω	11—13 (at 20°C, 68°F)	
<b>Circuit opening relay</b>			
Resistance	Ω	STA — E1	21—43
		B — Fc	109—226
		B — Fp	∞
<b>Solenoid valve (Purge control)</b>			
Solenoid resistance	Ω	23—27 (at 20°C, 68°F)	
<b>Crank angle sensor</b>			
Type		Optical pickup	
<b>Water thermosensor</b>			
Resistance	kΩ	-20°C (-4°F)	14.6—17.8
		20°C (68°F)	2.2—2.7
		80°C (176°F)	0.29—0.35
<b>Air valve</b>			
Opening temperature	°C (°F)	Below 40 (104)	
<b>Fuel tank</b>			
Capacity	liters (US gal, Imp gal)	45 (11.9, 9.9)	

\*...with system selector (49 B019 9A0) test switch at SELF TEST

Item	Specification
<b>Air cleaner</b>	
Element type	Oil permeated
<b>Accelerator cable</b>	
Free play	mm (in) 1—3 (0.039—0.118)
<b>Fuel</b>	
Specification	Unleaded regular (RON 87 or higher)

**G. ENGINE ELECTRICAL SYSTEM**

Item		Engine model	B6 DOHC	
Battery	Voltage	V	12, Negative ground	
	Type and capacity (5-hour rate)		S46A24L(S) (32Ah) Maintenance-free	
Dark current *		mA	20.0	
Alternator	Type		A.C.	
	Output	V-A	12-60	
	Regulator type		Transistorized (built-in IC regulator)	
	Regulated voltage		14.1—14.7	
	Brush length	mm (in)	Standard	21.5 (0.85)
			Minimum	8 (0.31)
Drive belt tension	mm (in)	New	8—9 (0.31—0.35)	
		Used	9—10 (0.35—0.39)	
Starter	Type		Conventional	
	Output	V-kW	12-0.95 (Others)	
	Brush length	mm (in)	Standard	17.0 (0.67)
Minimum			11.5 (0.45)	
Ignition system	Type		Electronic spark advance (ESA)	
	Spark advance control		Engine control unit controls sparks advance	
Ignition timing		BTDC	10° ± 1° (Test connector grounded)	
Ignition coil	Type		Molded	
	Primary coil winding	kΩ	0.78—0.94	
	Secondary coil winding	kΩ	11.2—15.2	
Spark plug	Type		NGK: BKR5E-11 NIPPON DENSO: K16PR-U11 BKR6E-11 K20PR-U11 BKR7E-11 K22PR-U11	
	Plug gap	mm (in)	1.0—1.1 (0.039—0.043)	
	Firing order		1—3—4—2	

\* Dark current is the constant flow of current while the ignition switch is OFF.  
(i.e. engine control unit, audio etc.)

**H. CLUTCH**

Item		Engine model	B6 DOHC
Clutch control			Hydraulic
<b>Clutch pedal</b>			
Type			Suspended
Pedal ratio			6.13
Full stroke		mm (in)	120 (4.72)
Height (with carpet)		mm (in)	175—185 (6.89—7.28)
Free play		mm (in)	0.6—3.1 (0.02—0.12)
Distance to carpet when clutch fully disengaged		mm (in) Minimum	68 (2.68)
<b>Flywheel</b>			
Runout limit		mm (in)	0.2 (0.008)
<b>Clutch disc</b>			
Type			Single dry plate

Item		Engine model	B6 DOHC
Runout limit		mm (in)	0.7 (0.028)
Wear limit		mm (in)	0.3 (0.012) from rivet head
Outer diameter		mm (in)	200 (7.87)
Inner diameter		mm (in)	130 (5.12)
Facing thickness	mm (in)	Flywheel side	3.5 (0.14)
		Pressure plate side	3.5 (0.14)
<b>Clutch cover</b>			
Type			Diaphragm spring
Set load		N (kg, lb)	4,022 (410, 902)

### J. MANUAL TRANSMISSION

Item		Transmission model		M-type (M5M-D)
Gear ratio	1st			3.136
	2nd			1.888
	3rd			1.330
	4th			1.000
	5th			0.814
	Reverse			3.758
Oil capacity		liters (US qt, Imp qt)		2.0 (2.1, 1.8)
Mainshaft	Runout	mm (in)	Maximun	0.03 (0.0012)
	Clearance between mainshaft and gear (or bush)	mm (in)	Wear limit	0.15 (0.006)
Reverse idle gear	Clearance between reverse idle gear bushing and shaft	mm (in)	Wear limit	0.15 (0.006)
Shift fork and rod	Clearance between shift fork and clutch sleeve	mm (in)	Wear limit	0.5 (0.020)
	Clearance between shift rod gate and control lever	mm (in)	Wear limit	0.8 (0.031)
Synchronizer ring	Clearance between synchronizer ring and side of gear when fitted	mm (in)	Standard	1.5 (0.059)
			Wear limit	0.8 (0.031)
Shift rod (5th/Reverse) spring	Free length	mm (in)		75 (2.953)
Detent ball spring (1st/2nd)	Free length	mm (in)		22.5 (0.886)
Detent ball spring (3rd/4th)	Free length	mm (in)		22.5 (0.886)
Detent ball spring (5th/Reverse)	Free length	mm (in)		17.0 (0.669)
Lubricant	Above 10°C (50°F)			API Service GL-4 or GL-5 SAE 80W-90
	All seasons			API Service GL-4 or GL-5 SAE 75W-90

### L. PROPELLER SHAFT

Item	Specification
Max. permissible run-out	mm (in) 0.4 (0.016)

M. FRONT AND REAR AXLES

Item		Transmission model	M5M-D	
Front axle	Type		Double-wishbone	
	Bearing		Angular ball bearing	
	Wheel bearing play	mm (in)   Maximum	0.05 (0.002)	
Rear axle	Type		Double-wishbone	
	Bearing		Angular ball bearing	
	Wheel bearing play	mm (in)   Maximum	0.05 (0.002)	
Differential	Type		Standard   Viscous L.S.D.	
	Reduction gear		Hypoid gear	
	Reduction ratio		4.300	
	Differential gear		Straight-bevel gear	
	Ring gear size	mm (in)	162.16 (6.38)	
	Oil	Grade		API service GL-5
		Viscosity		Above -18°C (0°F): SAE 90 Below -18°C (0°F): SAE 80W
		Capacity	liters (Us qt, Imp qt)	0.65 (0.69, 0.57)
	Drive pinion preload (without oil seal)	N-m (cm-kg, in-lb)		0.3—0.7 (3—7, 2.6—6.1)
	Backlash	Side gear and pinion gear	mm (in)	0—0.1 (0—0.004)
		Final gear		0.09—0.11 (0.0035—0.0043)
Length (Pilot section to pilot section)	mm (in)		150.20 <sup>+0.025</sup> <sub>-0.025</sub> (5.913 <sup>+0.001</sup> <sub>-0.001</sub> )	

Viscous L.S.D.: Viscous Limited Slip Differential

N. STEERING SYSTEM

Item	Type	Manual steering	Power steering
<b>Steering wheel</b>			
Outer diameter	mm (in)		370 (14.6)
Free play	mm (in)		0—30 (0—1.18)
Wheel effort	N (kg, lb)	4.9—29.4 (0.5—3.0, 1.1—6.6)	23.5—35.3 (2.4—3.6, 5.3—8.0)
Lock-to-lock	turns	3.36	2.8
<b>Steering Shaft</b>			
Shaft type			Collapsible, non-tilt
Joint type			2-cross joint
<b>Power steering system</b>			
Power assist type			Engine speed sensing
Gear type			Rack-and-pinion
Gear ratio			∞ (infinite)
Rack stroke	mm (in)		121.0 (4.76)
Power steering fluid			ATF DEXRON-II or M-III
Fluid capacity	liter (Us qt, Imp qt)		0.8 (0.85, 0.70)
Fluid pressure	kPa (kg/cm <sup>2</sup> , psi)		7,603—8,339 (77.5—85.0, 1,102—1,209)

P. BRAKING SYSTEM

Item	Specifications	
Brake pedal	Height (with carpet) mm (in)	171—181 (6.73—7.13)
	Free play mm (in)	4—7 (0.16—0.28)
	Reserve travel (without carpet, clearance when pedal is depressed at 589 N (60 kg, 132 lb)) mm (in)	95 (3.74)
Master cylinder	Type	Tandem
	Bore mm (in)	22.22 (0.87)
	Fluid type	SAEJ1703 or FMVSS116, DOT-3

Item		Specifications	
Front brake (Disc)	Type	Disc	
	Thickness of pad mm (in)	Standard	9.5 (0.37)
		Limit	1.0 (0.04)
	Thickness of disc plate mm (in)	Standard	18.0 (0.71)
		Limit	16.0 (0.63)
	Disc plate runout	mm (in)	0.1 (0.004) max.
Wheel cylinder bore	mm (in)	51.1 (2.01)	
Rear brake (Disc)	Type	DISC	
	Thickness of pad mm (in)	Standard	8.0 (0.31)
		Limit	1.0 (0.04)
	Thickness of disc plate mm (in)	Standard	9 (0.35)
		Limit	7 (0.28)
Wheel cylinder bore	mm (in)	31.75 (1.25)	
Parking brake	Lever notches [Pulled at 98 N (10 kg, 22 lb)]	5—7	
Power brake unit	Type	Single diaphragm	
	Diameter	mm (in)	214 (8.0)
	Push rod-to-piston clearance	mm (in)	When vacuum applied to the unit is approx. 500 mmHg (19.7 inHg) 0.1—0.3mm (0.004—0.012 in)
	Fluid pressure per treading force kPa (kg/cm <sup>2</sup> , psi)/N (kg, lb)		1,079—1,177 (11—12, 156—171)/196 (20, 44) at 0 mmHg (0 inHg) min. 5,199—5,494 (53—56, 754—796)/196 (20, 44) at 500 mmHg (19.7 inHg) min.
Rear wheel hydraulic control system	Type	PBV	
	Bend portion (Rear brake pressure)	kPa (kg/cm <sup>2</sup> , psi)	2,943 (30, 427)

**Q. WHEELS AND TIRES**

Item	Type	Standard	Temporary spare
Wheel	Size	14 x 5 1/2-JJ	14 x 4T
	Offset	mm (in)	45 (1.77)
	Pitch circle diameter	mm (in)	100 (3.94)
	Material	Aluminum alloy	Steel
Tire	Size	P185/60R14 82H	T115/70D14
	Air pressure	kPa (kg/cm <sup>2</sup> , psi)	177 (1.8, 26) 412 (4.2, 60)
Wheel and tire	Runout limit mm (in)	Horizontal	2.0 (0.079)
		Vertical	1.5 (0.059)
	Maximum unbalance (at rim edge)	g (oz)	10 (0.35)

**R. SUSPENSION**

Item		Specifications	
<b>Front suspension</b>			
Type		Double-wishbone	
Stabilizer	Type	Torsion bar	
	Diameter	mm (in)	19 (0.75)
Shock absorbers		Cylindrical double-acting, low-pressure gas charged	
Coil springs	Identification color	Red	
	Wire diameter	mm (in)	10.8 (0.43)
	Coil inner diameter	mm (in)	83 (3.27)
	Free length	mm (in)	282.5 (11.12)
Coil number		5.91	

Item		Specifications	
<b>Rear suspension</b>			
Type		Double-wishbone	
Stabilizer	Type	Torsion bar	
	Diameter	12 (0.47) mm (in)	
Shock absorbers		Cylindrical double-acting, low-pressure gas charged	
Coil springs	Identification color	Blue	
	Wire diameter	10.1 (0.40) mm (in)	
	Coil inner diameter	83 (3.27) mm (in)	
	Free length	339.5 (13.37) mm (in)	
	Coil number	7.68	
<b>Wheel alignment</b>			
Front wheel alignment (Unladen* <sup>1</sup> )	Total toe-in	mm (in)	3 ± 3 (0.12 ± 0.12)
		degree	0°18' ± 18'
	Maximum steering angle	Inner	37°23' ± 2°
		Outer	32°32' ± 2°
	Camber angle		0°24' ± 45' <sup>*2</sup>
	Caster angle		4°30' ± 45'
King pin angle		11°20'	
Rear wheel alignment (Unladen* <sup>1</sup> )	Total toe-in	mm (in)	3 ± 3 (0.12 ± 0.12)
		degree	0°18' ± 18'
	Camber angle		-0°43' ± 30'

\*<sup>1</sup> Fuel tank full; radiator coolant and engine oil at specified level, and spare tire, jack, and tools in designated position.

\*<sup>2</sup> Difference between left and right must not exceed 1°.

**T. BODY ELECTRICAL SYSTEM**

Item	Wattage (Bulb trade number)
<b>Instrument cluster lamps</b>	
Beam	3.4
Turn (LH and RH)	3.4
Illumination	3.4
Engine check	1.4
Brake	1.4
Charge	1.4
Belts	1.4
Air bag	1.4
Retractor	1.4
<b>Exterior lights</b>	
Head lights	60/40
Front turn signal/parking lights	27/8 (1157 NA)
Front side marker lights	3.8 (194)
License plate lights	7.5
Rear turn signal lights	27 (1156)
Rear side marker lights	3.8 (194)
Stop/taillights	27/8 (1157)
Back-up lights	27 (1156)
High-mount stoplight	18.4 (921)
<b>Interior lamps</b>	5
<b>Illumination lamps</b>	
Ash tray	3.4
Heater control switch panel	1.4
A/C switch	1.4
Hazard switch	1.4
Cruise control main switch	1.4

### U. HEATER AND AIR CONDITIONING SYSTEM

Item		Specifications
Refrigerant amount	g (oz)	800 (28.24)
Compressor oil amount	cc (cc in)	80—100 (4.88—6.1)
Refrigerant normal pressure	kPa (kg/cm <sup>2</sup> , psi)	Low pressure: 147—294 (1.5—3.0, 21—43) High pressure: 1,177—1,619 (12.0—16.5, 171—235)

### 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—4.7	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