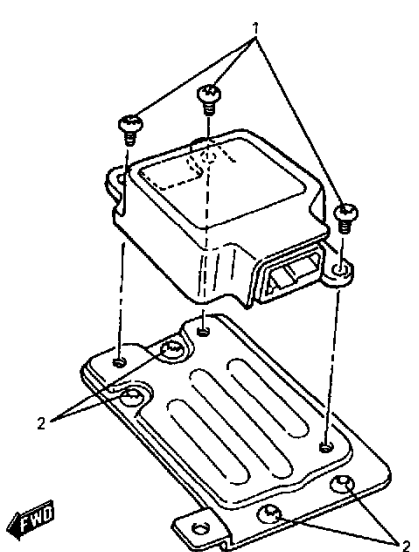
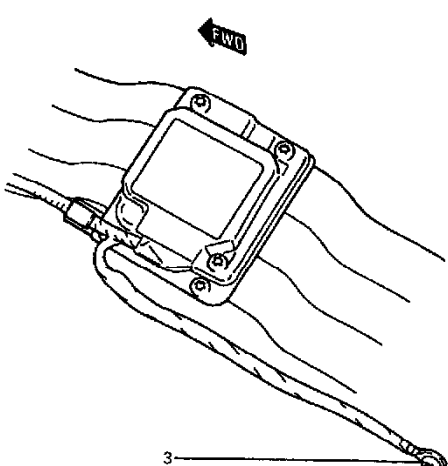


# Vehicle: Mechanical Specifications

Fastening parts	Tightening torque		
	N·m	kg·m	lb·ft
Driver air bag (inflator) module bolts	23	2.3	17.0

## Tightening Torque Specifications

Fastening Parts	Tightening Torque		
	N·m	kg·m	lb·ft
1. SDM screws	6	0.6	4.5
2. SDM bracket screws			
3. GND screw			
1, 2	3		
			

## Tightening Torque Specifications

Front		
Toe-In		0 +/- 2 mm
	NOTE: Toe-In Value Given Above Was Measured By Using A Toe-In Gauge.	
Camber		0 Deg. +/- 1 Deg.
Caster		2.7 Deg +/- 2 Deg
Kingpin Inclination		12 Deg 36' +/- 3 Deg.
Steering Angle Inside		39 Deg. +/- 3 Deg.
Ride Height		Within 15 mm
Rear		
Toe-In		2 +/- 2 mm

## Alternator

**NOTE:**

The generator used in each vehicle is one of the following two types, depending on specification.

Type	Type A	Type B
Rated voltage	12 V	
Nominal output	70 A	85 A
Permissible max. speed	18000 r/min.	
No-load speed	1150 – 1250 r/min (rpm)	950 r/min (rpm)
Setting voltage	13.6 to 14.4 V	
Permissible ambient temperature	-30 to 90°C (-22 to 194°F)	
Polarity	Negative ground	
Rotation	Clockwise viewed from pulley side	

Drain Plug		29.0 ft.lb
Transmission Range Switch Bolts		14.5 ft.lb
A/T Vehicle Speed Sensor Bolt		4.0 ft.lb
Forward Clutch Cylinder Revolution Sensor Bore		4.0 ft.lb
Solenoid Valve Bolts		4.9 ft.lb
A/T Side Cover Bolts		18.9 ft.lb
A/T Fluid Pipe Union Bolts		25.5 ft.lb
Interlock Cable Bracket Nut		9.5 ft.lb
Transmission To Engine Bolt And Nuts		65.0 ft.lb
Drive Plate To Converter Bolts		14.0 ft.lb
Engine Mounting And Bracket Bolts And Nuts	Exhaust Manifold To No. 1 Pipe Nuts	36.5 ft.lb
	Exhaust Manifold To No. 2 Pipe Nuts	36.5 ft.lb
Stabilizer Link Nuts		20.5 ft.lb
Steering Knuckle Ball Stud Nuts		43.5 ft.lb
Oil Pump Torx Bolts		9.0 ft.lb
Connector Driven Gear Vehicle Speed Sensor Rotor Bolt		90.5 ft.lb
Valve Body Bolts	10 Mm Bolts	7.5 ft.lb
	8 Mm Bolts	4.9 ft.lb
Differential Ring Gear Bolts		72.0 ft.lb
Transmission Case Bolts		22.0 ft.lb
Roller Bearing Retainer Bolt		9.5 ft.lb
Transmission Lubrication Tube Clamp Bolt		4.0 ft.lb
Oil Reservoir Plate Bolts		4.0 ft.lb
Transmission Rear Cover Bolts		18.0 ft.lb
Parking Lock Pawl Bracket Bolts		7.5 ft.lb
Manual Detent Spring Bolts		7.5 ft.lb
2nd And 4th Brake Piston Rod Lock Nut		14.5 ft.lb
Oil Pump Body Bolts		18.0 ft.lb
Shift Switch Lever Lock Nut		5.1 ft.lb
Counter Drive Gear Lock Nut		362 ft.lb

**Case, A/T**

Cylindrical Roller Bearing Retainer .....	13 Nm (1.3 kg-m, 9.5 ft. lbs.)
Lubrication Tube Clamp .....	5.5 Nm (0.55 kg-m, 4.0 ft. lbs.)
Oil Reservoir Plate .....	5.5 Nm (0.55 kg-m, 4.0 ft. lbs.)
Transmission Rear Cover And Engine Mounting LH Bracket .....	25 Nm (2.5 kg-m, 18.0 ft. lbs.)
Parking Lock Pawl Bracket .....	10 Nm (1.0 kg-m, 7.5 ft. lbs.)
Manual Detent Spring .....	10 Nm (1.0 kg-m, 7.5 ft. lbs.)
Oil Reservoir Plate .....	5.5 Nm (0.55 kg-m, 4.0 ft. lbs.)
Transmission Housing To Transmission Case .....	30 Nm (3.0 kg-m, 22.0 ft. lbs.)
Transmission Side Cover .....	25 Nm (2.5 kg-m, 18.0 ft. lbs.)
Oil Filler Tube .....	5.5 Nm (0.55 kg-m, 4.0 ft. lbs.)
Speedometer Driven Gear .....	5.5 Nm (0.55 kg-m, 4.0 ft. lbs.)
Transmission Range Switch Bolts .....	20 Nm (2.0 kg-m, 14.5 ft. lbs.)

Oil Cooler Pipe Fittings .....	35 Nm (3.5 kg-m, 25.5 ft. lbs.)
Oil Cooler Pipe Clamp .....	25 Nm (2.5 kg-m, 18.0 ft. lbs.)

## Torque Specifications

Ring Gear Bolts .....	99 Nm (9.9 kg-m, 72.0 ft. lbs.)
Differential Assembly To Transmission Case .....	30 Nm (3.0 kg-m, 22.0 ft. lbs.)

## Service Specifications

Differential gear thrust play .....	0.06 - 0.22 mm (0.0024 - 0.0087 inch)
Differential preload (starting torque) .....	0.8 - 1.4 Nm (0.08 - 0.14 kg-m, 0.58 - 1.01 ft. lbs.)

Drive Plate Bolts 95 Nm

## Oil Cooler Line/Hose - Transmission

Oil Cooler Pipe Fittings .....	35 Nm (3.5 kg-m, 25.5 ft. lbs.)
Oil Cooler Pipe Clamp .....	25 Nm (2.5 kg-m, 18.0 ft. lbs.)

## Torque Specifications

Oil Pump Body .....	25 Nm (2.5 kg-m, 18.0 ft. lbs.)
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## Service Specifications

Driven gear to Body clearance	
Standard .....	0.075 - 0.15 mm (0.00295 - 0.0059 inch)
Limit .....	0.3 mm (0.011 inch)

Gear Tip clearance

Standard .....	0.01 - 0.248 mm (0.00040 - 0.00976 inch)
Limit .....	0.3 mm (0.011 inch)

Gear to Body Side clearance

Standard .....	0.02 - 0.05 mm (0.0008 - 0.0019 inch)
Limit .....	0.1 mm (0.0039 inch)

## Torque Converter

Torque Converter Bolts (A/T) .....	19 Nm (14.0 ft. lbs.)
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## Transmission Mount, A/T

Transmission Stiffener Bolts .....	50 Nm (36.5 ft. lbs.)
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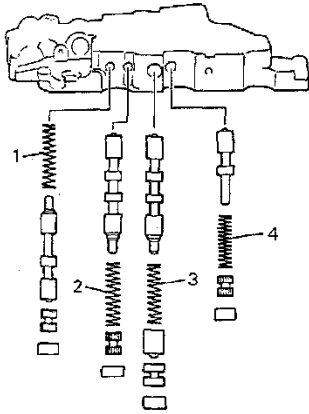
## Torque Specifications

Front Valve Body Cover .....	6.8 Nm (0.68 kg-m, 4.9 ft. lbs.)
Rear Valve Body Cover .....	10 Nm (1.0 kg-m, 7.5 ft. lbs.)
Rear Valve Body To Front Valve Body .....	6.8 Nm (0.68 kg-m, 4.9 ft. lbs.)
Solenoid Valves To Valve Body .....	6.8 Nm (0.68 kg-m, 4.9 ft. lbs.)
Valve Body to Case .....	10 Nm (1.0 kg-m, 7.5 ft. lbs.)

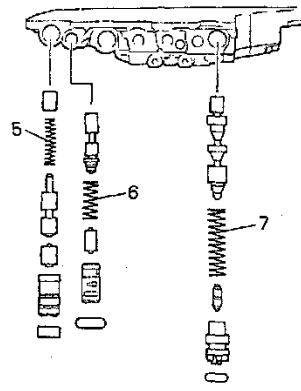
## Service Specifications

Compression Spring Identifications

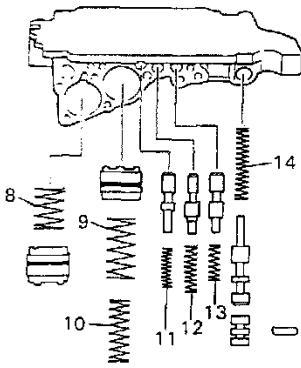
Torque converter side of front valve body



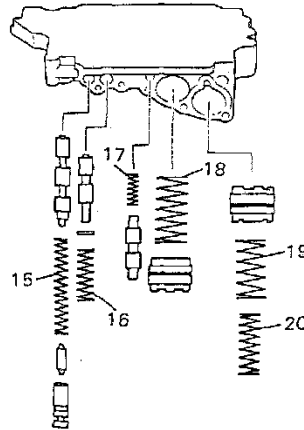
Rear cover side of front valve body



Torque converter side of rear valve body



Rear cover side of rear valve body



Spring	Free length mm (in.)	Outside diameter mm (in.)	Identification color
1. 1-2 shift valve spring	34 (1.34)	8 (0.31)	Blue
2. 2-3 shift valve spring	34 (1.34)	8 (0.31)	Blue
3. 3-4 shift valve spring	34 (1.34)	8 (0.31)	Blue
4. TCC modulator valve spring	28 (1.10)	8 (0.31)	Green
5. 2nd and 4th brake modulator valve spring	30 (1.18)	8.5 (0.33)	Light green
6. Accumulator control valve spring	25 (0.98)	11.5 (0.45)	Purple
7. Primary regulator valve spring	48 (1.89)	13.2 (0.52)	White
8. 2nd and 4th brake accumulator piston spring	28.3 (1.11)	21 (0.83)	Blue
9. Reverse clutch accumulator piston spring (OUTER)	42.0 (1.65)	21 (0.83)	Red
10. Reverse clutch accumulator piston spring (INNER)	42.0 (1.65)	15.4 (0.61)	Red
11. Solenoid modulator valve spring	28.5 (1.12)	8.0 (0.31)	Purple
12. Low coast modulator valve spring	32.8 (1.29)	7.6 (0.30)	Red
13. 2nd and 4th brake modulator control valve spring	23.9 (0.94)	7.7 (0.30)	Pink
14. Secondary regulator valve spring	48 (1.89)	9.5 (0.37)	None
15. TCC control valve spring	64.9 (2.56)	9.6 (0.38)	None
16. Coast clutch modulator valve spring	35.6 (1.40)	7.7 (0.30)	Light green
17. 2-3 timing valve spring	21.1 (0.83)	11.0 (0.43)	White
18. Overdrive clutch accumulator piston spring	45.1 (1.78)	21.1 (0.83)	Light green
19. Forward clutch accumulator piston spring (OUTER)	42.0 (1.65)	21.0 (0.83)	Red
20. Forward clutch accumulator piston spring (INNER)	42.0 (1.65)	15.5 (0.61)	Red

Fastener	Tightening torque		
	N-m	kg-m	lb-ft
Oil drain plug	21	2.1	15.0
Oil filler and level plug	21	2.0	15.0
Ball joint stud bolt and nut	60	6.0	43.5
Drive shaft nut	175	17.5	127.0
Center bearing support bolt	50	5.0	36.5
Stabilizer joint nut	28	2.8	20.5

Fastener		Tightening torque		
		N-m	kg-m	lb-ft
Oil drain plug	A/T	40	4.0	29.0
Ball joint stud bolt and nut		60	6.0	43.5
Drive shaft nut		175	17.5	127.0
Center bearing support bolt		50	5.0	36.5
Stabilizer joint nut		28	2.8	20.5
Tie-rod end nut		45	4.5	32.5
Wheel nut		85	8.5	61.5

## Brake Light Switch

### GENERAL SPECIFICATIONS

Clearance Between Brake Pedal And End Thread: 1.5 - 2.0 mm (0.06 - 0.08 inch)

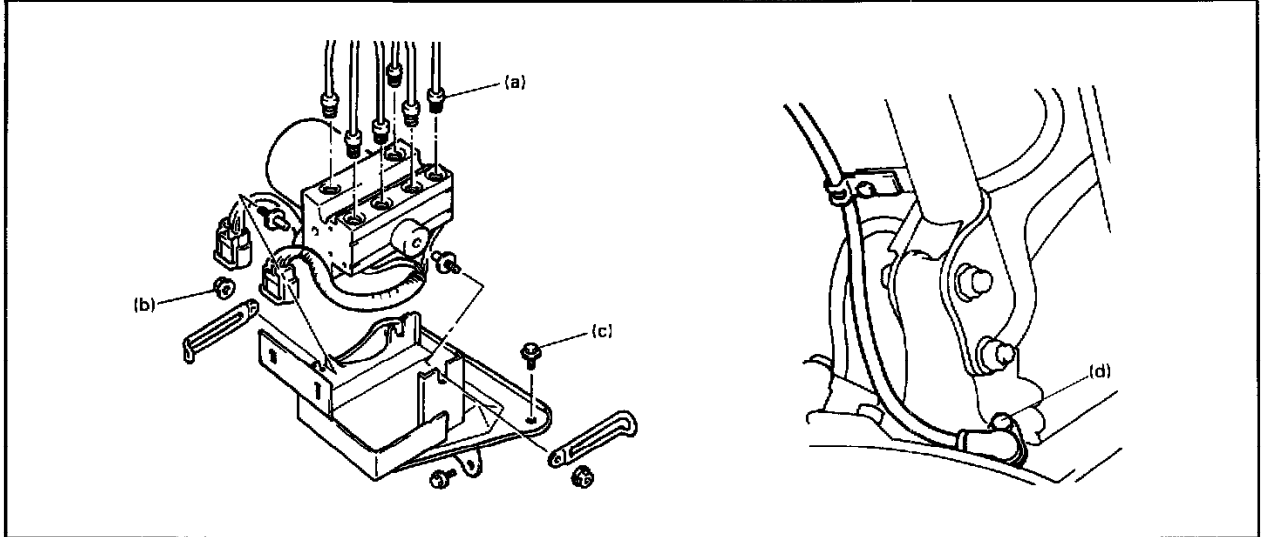
### TORQUE SPECIFICATIONS

Locknut ..... 7.5 Nm (5.5 ft. lbs.)

Fastening parts		Tightening torque		
		N-m	kg-m	lb-ft
Brake pipe 4-way joint bolt		10	1.0	7.5
Brake pipe flare nut		16	1.6	11.5
Brake bleeder plug	Front caliper	11	1.1	8.0
	Wheel cylinder	8.0	0.8	6.0
Wheel nut		85	8.5	61.5
Stop light switch lock nut		7.5	0.75	5.5

Fastening parts		Tightening torque		
		N-m	kg-m	lb-ft
Brake caliper bleeder plug		11	1.1	8.0
Caliper pin bolt		22	2.2	16.0
Flexible hose bolt		23	2.3	17.0
Brake carrier bolt		85	8.5	61.5
Wheel nut		85	8.5	61.5

Fastening parts	Tightening torque		
	N·m	kg-m	lb-ft
Brake pipe flare nut: (a)	16	1.6	11.5
ABS hydraulic unit nut: (b)	21	2.1	15.5
ABS hydraulic unit bracket bolt: (c)	23	2.3	17.0
Wheel speed sensor bolt (Front & rear): (d)			



ABS Hydraulic Unit Nut            21 Nm  
ABS Hydraulic Unit Bracket Bolt   23 Nm

Wheel Speed Sensor Bolt   23 Nm  
(Front & Rear)

Bleeder Plug   11 Nm

Brake Bleeder Plug   Front Caliper   11 Nm  
Caliper Pin Bolt                            22 Nm

Pad Thickness   Standard    15.0 mm  
                         Service Limit   6.0 mm

Disc Thickness   Standard    20 mm  
                         Service Limit   18 mm

Fastening parts	Tightening torque		
	N·m	kg·m	lb·ft
Wheel cylinder bleeder plug	8	0.8	6.0
Parking brake lever bolt	23	2.3	17.0
Wheel cylinder bolt	12	1.2	9.0
Brake pipe flare nut	16	1.6	12.0
Brake back plate nut	23	2.3	17.0
Spindle nut	175	17.5	126.5

Brake Back Plate Nut 23 Nm

Inside Diameter Standard 200 mm  
Service Limit 202 mm

Thickness Standard 6.1 mm  
Service Limit 2.8 mm

Brake Bleeder Plug Wheel Cylinder 8.0 Nm

Fastening parts	Tightening torque			
	N·m	kg·m	lb·ft	
Front brake flexible hose bolt	23	2.3	17.0	
Booster clevis nut	25	2.5	18.0	
Master cylinder nut or booster nut	13	1.3	9.5	
Brake pipe 4-way joint bolt	10	1.0	7.5	
Proportioning valve bolt				
Brake pipe flare nut	16	1.6	11.5	
Master cylinder stopper bolt	Vehicle with ABS	10	1.0	7.5
	Vehicle without ABS	2.5	0.25	2.0
Wheel nut	85	8.5	61.5	

Front Brake Flexible Hose Bolt 23 Nm

Brake Pipe 4-Way Joint Bolt 10 Nm  
Brake Pipe Flare Nut 16 Nm

## Brake Pedal Assy

### GENERAL SPECIFICATIONS

Pedal Free Height ..... 157 - 167 mm (6.18 - 6.57 inch)  
Pedal To Wall Clearance ..... Over 80 mm (3.15 inch)

Master Cylinder Nut or Booster Nut		13 Nm
Master Cylinder Stopper Bolt	Vehicle With ABS	10 Nm
	Vehicle Without ABS	2.5 Nm

Proportioning Valve Bolt 10 Nm

Booster Clevis Nut 25 Nm

Fastening parts	Tightening torque		
	N·m	kg·m	lb·ft
Wheel cylinder bleeder plug	8	0.8	6.0
Parking brake lever bolt	23	2.3	17.0
Wheel cylinder bolt	12	1.2	9.0
Brake pipe flare nut	16	1.6	12.0
Brake back plate nut	23	2.3	17.0
Spindle nut	175	17.5	126.5

Parking Brake Lever Bolt 23 Nm

Transmission Case Bolts	19 Nm
Left Case Plate Bolts	23 Nm
Gear Shift Guide Case Bolts	19 Nm

## Clutch Switch

Clutch Pedal Position Switch Lock Nut 7.5 Nm

Fastening portion	Tightening torque		
	N·m	kg·m	lb·ft
Clutch pedal position switch lock nut	7.5	0.75	5.5
Clutch cable outer bolts	11	1.1	8.0
Flywheel bolts	78	7.8	56.5
Clutch cover bolts	23	2.3	17.0
Release arm bolt	13	1.3	9.5
Cable bracket bolts	23	2.3	17.0

Fastening Parts	Tightening Torque		
	N·m	kg·m	lb·ft
Flare nut	16	1.6	11.5
Master cylinder nut	13	1.3	9.5
Flywheel bolts	70	7.0	51.0
Clutch cover bolts	23	2.3	17.0
Release arm bolt	13	1.3	9.5
Operating cylinder bolt	23	2.3	17.0
Clutch hose union bolt			



Clutch Cable Outer Bolts 11 Nm  
Bracket Bolts 23 Nm

Master Cylinder Nut 13 Nm

Operating Cylinder Bolt 23 Nm

## Hydraulic Hose, Clutch

Flare Nut 16 Nm

Clutch Hose Union Bolt 23 Nm

Clutch Cover Bolts 23 Nm

Release Arm Bolt 13 Nm

Drain Plug 21 Nm

FASTENING PARTS	TIGHTENING TORQUE		
	N·m	kg·m	lb·ft
Oil pressure switch	14	1.4	10.5
Valve adjusting screw lock nuts	12	1.2	9.0
Cylinder head cover bolts	11	1.1	8.0
Water pump pulley bolts			
Timing belt tensioner stud			
Timing belt tensioner bolt	25	2.5	18.0
Timing belt cover bolts and nut	11	1.1	8.0
Exhaust manifold bolts and nuts	23	2.3	17.0
Exhaust manifold to No.1 pipe nuts	50	5.0	36.5
Exhaust No.1 pipe to No.2 pipe bolts			
Crankshaft pulley bolt	16	1.6	11.5
Oil pump strainer bolt and stay bolt	11	1.1	8.0
Oil pan bolts and nuts			
Oil pan drain plug	35	3.5	25.5
Transmission stiffener bolts	50	5.0	36.5
Oil pump rotor plate screws	11	1.1	8.0
Oil pump case bolts	11	1.1	8.0
Crankshaft timing belt pulley bolt	130	13.0	94.0
Camshaft housing bolts	11	1.1	8.0
Rocker arm shaft bolts			
Rocker arm shaft plug	33	3.3	24.0
Camshaft timing belt pulley bolt	60	6.0	43.5
Distributor case	11	1.1	8.0
Cylinder head venturi plug	5	0.5	4.0
Cylinder head bolts	68	6.8	49.5
Connecting rod bearing cap nuts	35	3.5	25.5
Bolt and nuts fastening T/M and cylinder block	90	9.0	65.0
Torque converter bolts (A/T)	19	1.9	14.0
Crankshaft main bearing cap bolts	54	5.4	39.0
Flywheel bolts	78	7.8	56.5
Drive plate bolts	95	9.5	69.0

## System Specifications

Valve Adjusting Screw Lock Nuts .....	12 Nm (108 inch lbs.)
Camshaft Housing Bolts .....	11 Nm (96 inch lbs.)

## Camshaft Gear/Sprocket

Camshaft Timing Belt Pulley Bolt .....	60 Nm (43.5 ft. lbs.)
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## Camshaft, Engine

### Service Specifications

Cam height	Standard	Limit
Intake cam	36.184 – 36.344 mm (1.4246 – 1.4308 in.)	36.084 mm (1.4207 in.)
Exhaust cam	35.900 – 36.060 mm (1.4134 – 1.4196 in.)	35.800 mm (1.4095 in.)

## Tightening Specifications

Camshaft Housing Bolts: 11 Nm (8.0 ft. lbs.)

## System Specifications

### SERVICE SPECIFICATIONS

Gasketed Surface Distorsion:

Standard .....	0.03 mm (0.0012 inch)
Limit .....	0.06 mm (0.0024 inch)

Cylinder Bore:

Diameter limit .....	75.15 mm (2.9586 inch)
Taper and out-of-round limit .....	0.10 mm (0.0039 inch)
Piston clearance .....	0.02 - 0.04 mm (0.0008 - 0.0015 inch)

### TIGHTENING SPECIFICATIONS

Crankshaft Main Bearing Cap Bolts .....	54 Nm (39.0 ft. lbs.)
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## Connecting Rod, Engine

### Service Specifications

Connecting rod bow, maximum .....	0.05 mm (0.0020 inch)
Connecting rod twist, maximum .....	0.10 mm (0.0039 inch)

Big end side clearance:

Standard .....	0.10 - 0.20 mm (0.0039 - 0.0078 in)
Limit .....	0.35 mm (0.0137 inch)

Small end bore .....	19.003 - 19.011 mm (0.7482 - 0.7486 inch)
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### Tightening Specifications

Connecting Rod Bearing Cap Nuts .....	35 Nm (25.5 ft. lbs.)
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## Crankshaft Main Bearing

Crankshaft Main Bearing Cap Bolts .....	54 Nm (39 ft. lbs.)
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## Crankshaft, Engine

### Service Specifications

Crankshaft Runout, Max: 0.06 mm (0.0023 inch)

Crank Pins:

Connecting rod bearing size	Crank pin diameter
Standard	43.982–44.000 mm (1.7316–1.7322 in.)
0.25 mm (0.0098 in.) undersize	43.732–43.750 mm (1.7218–1.7224 in.)

Out-Of-Round And Taper Limit: 0.01 mm (0.0004 inch)

Main Bearing Journals

Numeral stamped	Journal diameter
1	51.994 – 52.000 mm (2.0470 – 2.0472 in.)
2	51.988 – 51.994 mm (2.0468 – 2.0470 in.)
3	51.982 – 51.988 mm (2.0465 – 2.0468 in.)

Out-Of-Round And Taper Limit: 0.01 mm (0.0004 inch)

### Tightening Specifications

Crankshaft Timing Belt Pulley Bolt: 110 Nm (79.5 ft. lbs.)

### Piston Ring, Engine

Piston Ring End Gap: Measured at cylinder bore depth of 120 mm (4.72 inch)

Top Ring:	
Standard .....	0.2 - 0.35 mm (0.0079 - 0.0137 inch)
Limit .....	0.7 mm (0.0275 inch)
2nd Ring:	
Standard .....	0.2 - 0.35 mm (0.0079 - 0.0137 inch)
Limit .....	0.7 mm (0.0275 inch)
Oil Ring:	
Standard .....	0.2 - 0.7 mm (0.0079 - 0.0275 inch)
Limit .....	1.7 mm (0.0669 inch)

### Piston, Engine

Piston Diameter: (Measured at 1.23 mm (0.91 inch) from the bottom of the piston.)

Standard .....	74.970 - 74.990 mm (2.9516 - 2.9523 inch)
Oversized:	
0.25 mm (0.0098 inch) .....	75.220 - 75.230 mm (2.9614 - 2.9618 inch)
0.50 mm .....	75.470 - 75.480 mm (2.9712 - 2.9716 inch)
Piston clearance .....	0.02 - 0.04 mm (0.0008 - 0.0015 inch)
Ring groove clearance:	
Top .....	0.03 - 0.07 mm (0.0012 - 0.0027 inch)
2nd .....	0.02 - 0.06 mm (0.0008 - 0.0023 inch)

### Torque Specifications

Torque Specifications

Crankshaft Pulley Bolts 11.5 ft.lb

### Wrist Pin

Piston Pin Diameter ..... .7479-.7480

### System Specifications

Service Specifications

Head gasket surface flatness

Max. distortion ..... 0.05 mm (0.002 inch)

Manifold seating faces flatness

Max. distortion ..... 0.10 mm (0.004 inch)

Camshaft Journal Bore, Std. .... 28.000 - 28.021 mm (1.1024 - 1.1031 inch)

Tightening Specifications

Cylinder Head Venturi Plug ..... 5 Nm (4.0 ft. lbs.)

**Cylinder Head Bolts:**

- Step 1 ..... 35 Nm (25 ft. lbs.)
- Step 2 ..... 55 Nm (40 ft. lbs.)
- Step 3 ..... 68 Nm (49.5 ft. lbs.)

Camshaft Journal Cap Bolts ..... 11 Nm (8 ft. lbs.)

**Rocker Arm Shaft**

- Rocker Arm Shaft Bolts ..... 11 Nm (8.0 ft. lbs.)
- Rocker Arm Shaft Plug ..... 33 Nm (24.0 ft. lbs.)

**Valve Clearance**

**Valve Clearance Specifications:**

**COLD: 15 - 25°C (59 - 77°F)**

- Intake ..... 0.13 - 0.17 mm (0.005 - 0.007 inch)
- Exhaust ..... 0.23 - 0.27 mm (0.0091 - 0.0106 inch)

**HOT: 60 - 68°C (140 - 154°F)**

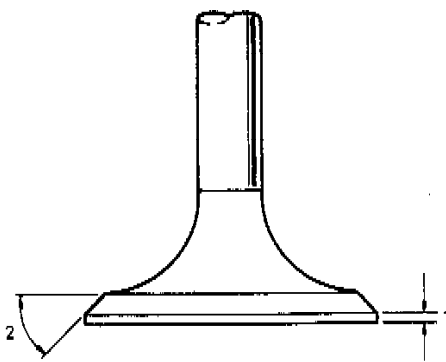
- Intake ..... 0.17 - 0.21 mm (0.007 - 0.008 inch)
- Exhaust ..... 0.27 - 0.31 mm (0.0106 - 0.0122 inch)

Locknut torque ..... 12 Nm (9.0 ft. lbs.)

Cylinder Head Cover Nuts 11 Nm

**Valve, Intake/Exhaust**

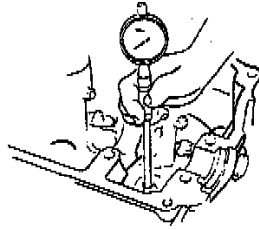
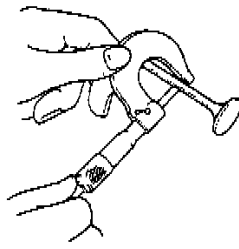
**Valve Head Thickness**



- 1. Valve head thickness
- 2. 45°

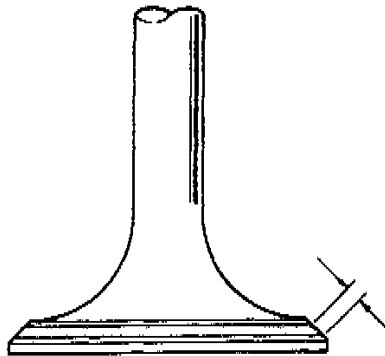
Valve head thickness		
	Standard	Limit
IN	0.8–1.2 mm	0.6 mm (0.024 in.)
EX	(0.03–0.047 in.)	0.7 mm (0.027 in.)

**Valve Stem Diameter and Clearance**



Item		Standard	Limit
Valve stem diameter	In	5.465 – 5.480 mm (0.2152 – 0.2157 in.)	–
	Ex	5.440 – 5.455 mm (0.2142 – 0.2148 in.)	–
Valve guide I.D.	In	5.500 – 5.512 mm (0.2166 – 0.2170 in.)	–
	Ex		
Stem-to-guide clearance	In	0.020 – 0.047 mm (0.0008 – 0.0018 in.)	0.07 mm (0.0027 in.)
	Ex	0.045 – 0.072 mm (0.0018 – 0.0028 in.)	0.09 mm (0.0035 in.)

#### Valve Face Seat Width



Standard seat width: 1.1 - 1.3 mm (0.0433 - 0.0512 inch)

Drain Plug 35 Nm

### System Specifications

Belt .....	Belt Deflection Inch [01]
A/C Compressor .....	0.30-0.40
Alternator and Water Pump .....	0.24-0.31

[01] -- With 22 lbs. pressure applied.

### Service Specifications

GENERAL SPECIFICATIONS	
Deflection Of P/S Belt .....	8 - 10 mm (0.32 - 0.39 inch)

## Torque Specifications

### TIGHTENING SPECIFICATIONS

Belt Tension Pulley Nut ..... 45 Nm (32.5 ft. lbs.)

## Drive Belt Tensioner

### TORQUE SPECIFICATIONS

Mounting Nut ..... 45 Nm (32.5 ft. lbs.)

## Engine Mount

Transmission Stiffener Bolts ..... 50 Nm (36.5 ft. lbs.)

Oil Pan Bolts and Nuts 11 Nm

Oil Pump Strainer Bolts 11 Nm

Oil Pump Rotor Plate Screws 11 Nm

Oil Pump Case Bolts 11 Nm

## Oil Strainer, Engine

Oil Pump Strainer Bolt and Stay Bolt ..... 11 Nm (96 inch lbs.)

## System Specifications

Crankshaft Timing Belt Pulley Bolt ..... 110 Nm (79.5 ft. lbs.)

## Torque Specifications

### Torque Specifications

Tensioner Bolt 18.0 ft.lb

Tensioner Stud 8.0 ft.lb

## Torque Specifications

### Torque Specifications

Timing Cover Bolts 8.0 ft.lb

## Exhaust Manifold

Exhaust Manifold Bolts and Nuts ..... 23 Nm (17 ft. lbs.)

Exhaust Manifold to No.1 Pipe Nuts ..... 50 Nm (36.5 ft. lbs.)

Exhaust No.1 Pipe to No.2 Pipe Bolts ..... 50 Nm (36.5 ft. lbs.)

## Exhaust Pipe

Exhaust No.1 Pipe To No.2 Pipe Bolts ..... 50 Nm (36.5 ft. lbs.)

Fill Plug 21 Nm

Level Plug

Firing Order 1-3-4-2

Flywheel Bolts Clutch Wire Type 78 Nm

Clutch Hydraulic Type 70 Nm

Input Shaft Nut 70 Nm  
Input Shaft R Bearing Plate Bolt 10 Nm

## Power Steering Line/Hose

### TORQUE SPECIFICATIONS

High Pressure Pipe To Pump ..... 55 Nm (40.0 ft. lbs.)

Union Bolt 55 Nm  
Oil Pump Cover Bolt 28 Nm  
Plug 60 Nm  
Suction Connector Bolt 12 Nm

## Seat Belt

### Tightening torque

(a): 45 Nm (4.5 kg.m, 32.5 lb.ft)

(b): 5.5 Nm (0.55 kg.m, 4.0 lb.ft)

Shift And Select Control Cable Lock Nut 6 Nm

Shift Fork ---  
Shift Fork Bolts 10 Nm  
5Th Shift Fork Plug 9 Nm



**[Type A]**

Voltage		12 volts	
Output		1.2 kW	1.4 kW
Rating		30 seconds	
Direction of rotation		Clockwise as viewed from pinion side	
Brush length		17.5 mm (0.69 in.)	16.5 mm (0.65 in.)
Number of pinion teeth		8	
Performance		Condition	Guarantee
Around at 20°C (68°F)	No load characteristic	11.0 V	90 A maximum 3,000 rpm minimum
	Load characteristic	7.7 V 300 A	9.1 N·m (0.91 kg-m, 6.5 lb-ft) minimum 850 rpm minimum 9.8 N·m (0.98 kg-m, 7.0 lb-ft) minimum 1,000 rpm minimum
	Locked rotor current	4.0 V	780 A maximum 18 N·m (1.8 kg-m, 13.0 lb-ft) minimum 980 A maximum 23 N·m (2.3 kg-m, 16.5 lb-ft) minimum
	Magnetic switch operating voltage		8 volts maximum

**[Type B]**

Voltage		12 volts	
Output		1.2 kW	
Rating		30 seconds	
Direction of rotation		Clockwise as viewed from pinion side	
Brush length		12.3 mm (0.44 in.)	
Number of pinion teeth		8	
Performance		Condition	Guarantee
Around at 20°C (68°F)	No load characteristic	11.0 V	90 A maximum 2,500 rpm minimum
	Load characteristic	7.5 V 300 A	10.5 N·m (1.05 kg-m, 7.59 lb-ft) minimum 880 rpm minimum
	Locked characteristic	4.0 V	760 A maximum 19.5 N·m (1.95 kg-m, 14.1 lb-ft) minimum
	Magnetic switch operating voltage		8 volts maximum

Type A / B

Steering Column Mounting Bolts 14 Nm  
Steering Column Length 513 mm

Steering Wheel Play 0 - 30 mm  
Shaft Nut 33 Nm

**System Specifications**

**TORQUE SPECIFICATIONS**

Mounting Bolts ..... 90 Nm (65.0 ft. lbs.)

**Coil Spring, Suspension**

**GENERAL SPECIFICATIONS**

Total Length:

Front ..... 250 mm (9.8 inch)  
Rear ..... 290 mm (11.42 inch)

## Spindle

### TORQUE SPECIFICATIONS

Attaching Nut ..... 175 Nm (127 ft. lbs.)

## Stabilizer Link

### TORQUE SPECIFICATIONS

Joint Nut ..... 50 Nm (36.5 ft. lbs.)

Link Nut ..... 28 Nm (20.5 ft. lbs.)

## Tie Rod

### TORQUE SPECIFICATIONS

Locknut ..... 45 Nm (32.5 ft. lbs.)

Ball Nut ..... 90 Nm (65.5 ft. lbs.)

Tie Rod End Lock Nut 45 Nm

Tire Type P185/60 R14 or P 175/70 R13

Depending On Vehicle Specifications

## Transmission Mount, M/T

Transmission Stiffener Bolts ..... 50 Nm (36.5 ft. lbs.)

Transmission Position Switch 20 Nm

## Transmission Speed Sensor

Mounting ..... 5.5 Nm (48 inch lbs.)

A/T Vehicle Speed Sensor 5.5 Nm

## System Specifications

Water Pump to Engine Block Bolts ..... 11 Nm (96 inch lbs.)

## Water Pump Pulley

Water Pump Pulley Bolts ..... 11 Nm (8.0 ft. lbs.)

Wheel

Steel Wheel

Radial Runout 1.14 mm

Lateral Runout 1.40 mm

## Wheel Bearing

### GENERAL SPECIFICATIONS

Thrust Play Limit:

Front ..... 0.4 mm (0.016 inch)

Rear ..... 0.3 mm (0.012 inch)

## System Specifications

### TORQUE SPECIFICATIONS

Lug Nut ..... 85 Nm (61.5 ft. lbs.)

Wheel Nuts 85 Nm