

SERVICE DATA

SECTION SD

CONTENTS

F SERVICE DATA	
F1 NEW VEHICLE AND PERIODIC INSPECTION AND MAINTENANCE STANDARDS	SD- 2
1. Engine	SD- 2
2. Chassis	SD- 4
F2 PERIODIC REPLACEMENT PARTS	SD- 8
1. Engine	SD- 8
2. Chassis	SD- 8
F3 LUBRICANTS AND SERVICE POINTS	SD- 9
1. Engine	SD- 9
2. Chassis	SD- 9
F4 SERVICE DATA	SD-10
1. Tightening Torque	SD-10
2. Engine Specifications and Major Data	SD-13

F1 NEW VEHICLE AND PERIODIC INSPECTION AND MAINTENANCE STANDARDS

1. Engine

* Items marked with an asterisk in parentheses do not require periodic inspection. These items are indicated for reference only.

	Item	Inspection		RB26DETT
		New engine	Periodic	
Engine	Cylinder head tightening torque N·m (kg·m, ft·lb)	—	○ (for business use)	① 29 (3, 22) ② 108 (11, 80) ③ 0 (0, 0) ④ 29 (3, 22) ⑤ 108 ± 5 (11 ± 0.5, 79.6 ± 3.6)
	Intake and exhaust manifold tightening torque N·m (kg·m, ft·lb)	—	—	Intake: 16 - 21 (1.6 - 2.1, 12 - 15) Exhaust: 18 - 24 (1.8 - 2.4, 13 - 17)
	Valve clearances (when hot) - intake and exhaust mm (in)	—	—	Intake: 0.51 (0.020) Exhaust: 0.44 (0.017) (when cold)
	Standard compression pressure kPa (kg/cm ² , psi)/rpm	—	○	1,177 (12.0, 171)/ 300
	Limit kPa (kg/cm ² , psi)/rpm	—	○	883 (9.0, 128)/ 300
	Difference limit among cylinders kPa (kg/cm ² , psi)/rpm	—	○	98 (1.0, 14)
	Idle rpm	—	○	M/T: 950
	CO/HC concentration %/rpm	○	○	Less than 0.1/ greater than 50
	Dashpot "touch" rpm	—	○	—
	TV valve operating temperature °C (°F)	—	—	—
Emission control systems	Catalytic converter tightening torque N·m (kg·m, ft·lb)	—	○	31 - 42 (3.2 - 4.3, 23 - 31)
	Exhaust temperature sensor tightening torque N·m (kg·m, ft·lb)	—	○	25 - 34 (2.5 - 3.5, 18 - 25)
	Ignition timing °BTDC/rpm	—	○	M/T: 20/950
Engine electrical system	Spark plug gap mm (in)	—	○	1.0 - 1.1 (0.039 - 0.043) (Adjustment not required)
	Specific gravity of battery electrolyte 20°C (68°F)	○	○	1.22 - 1.29

F1 NEW VEHICLE AND PERIODIC INSPECTION AND MAINTENANCE STANDARDS

1. Engine (Cont'd)

Cooling system	Coolant pressurization limit	kPa (kg/cm ² , psi)	—	○	98 (1.0, 14)
	Radiator cap relief pressure	kPa (kg/cm ² , psi)	—	○	59 - 98 (0.6 - 1.0, 9 - 14)
	Coolant quantity	Radiator	○	○	Up to lower end of filler opening
		Reservoir tank			Between MIN and MAX
	Fan belt tension [when pressed midpoint with a force of approx. 98 N (10 kg, 22 lb)]	When new	○	○	3.0 - 5.0 (0.118 - 0.197)
		When readjusted	○	○	4.0 - 6.0 (0.157 - 0.236)
		Service limit			7.5 (0.295)
Exhaust system	Tightening torque	N·m (kg-m, ft-lb)	○	○	
	● Heat-shield plate				5 - 7 (0.5 - 0.7, 3.6 - 5.1)
	● Exhaust manifold-to-front tube				45 - 60 (4.6 - 6.1, 33 - 44)
	● Front tube-to-catalytic converter				43 - 55 (4.4 - 5.6, 32 - 41)
	● Catalytic converter-to-center tube				43 - 55 (4.4 - 5.6, 32 - 41)

F1 NEW VEHICLE AND PERIODIC INSPECTION AND MAINTENANCE STANDARDS

2. Chassis

Item		New vehicle inspection	Periodic inspection	Inspection standards
Clutch	Pedal free play (at clevis)	mm (in)	○	5 - 12 (0.20 - 0.47) [1 - 3 (0.04 - 0.12)]
	Pedal-to-floor (when released)	mm (in)	○	81 (3.19)
	Free pedal height	mm (in)	○	171.7 - 181.7 (6.76 - 7.15)
Propeller (drive) shaft	Tightening torque of joints		○	
	N-m (kg-m, ft-lb)			
	● Front propeller shaft-to-front final drive			24 - 32 (2.4 - 3.3, 17 - 24)
	● Rear propeller shaft-to-rear final drive			64 - 74 (6.5 - 7.5, 47 - 54)
	● Transfer-to-rear propeller shaft			88 - 98 (9.0 - 10.65 - 72)
	● Center propeller shaft-to-bearing bracket			Bolt: 32 - 38 (3.3 - 3.9, 24 - 28) Nut: 20 - 23 (2.0 - 2.3, 14 - 17)
	● Center flange-to-propeller shaft			64 - 74 (6.5 - 7.5, 47 - 54)
	● Center flange lock nuts			245 - 294 (25 - 30, 181 - 217)
	● Side shaft-to-front drive shaft			16 - 21 (1.6 - 2.1, 12 - 15)
	● Side flange-to-rear drive shaft			83 - 93 (8.5 - 9.5, 61 - 69)
	Propeller shaft runout		○	Less than 6 (0.6, 4.3)
	Wheel alignment		○	
	● Toe-in	mm (in)		1 ± 1 (0.04 ± 0.04)
	● Camber	degree		-0°55' ± 45'
	● Caster	degree		RB26DETT: 3°40' ± 45'
	● Kingpin inclination	degree		15°25' ± 45'
	Front wheel bearing play		○	
	● Tightening torque	N-m (kg-m, ft-lb)		235 - 314 (24 - 32, 174 - 231)
	● Axial end play	mm (in)		Less than 0.05 (0.0020)
	Tightening torque of fasteners/ joints			
Front suspension and axle	N-m (kg-m, ft-lb)			
	● Suspension member securing nuts			74 - 88 (7.5 - 9.0, 54 - 65)
	● Suspension member-to-lower link ball joint			63 - 78 (6.4 - 8.0, 46 - 58)
	● Lower link ball joint-to-lower link			96 - 120 (9.8 - 12.2, 71 - 86)
	● Lower link-to-suspension lower ball joint			96 - 120 (9.8 - 12.2, 71 - 86)
	● Tension rod-to-suspension member			88 - 108 (9.0 - 11.65 - 80)
	● Tension rod-to-lower link			108 - 127 (11 - 13, 80 - 94)
	● Ball joint-to-knuckle spindle			72 - 87 (7.3 - 9.9, 53 - 72)
	● Kingpin-to-3rd link			98 - 118 (10 - 12, 72 - 87)
	● Knuckle spindle-to-king pin			147 - 186 (15 - 19, 108 - 137)
	● 3rd link-to-upper link			88 - 108 (9.0 - 11.65 - 80)
	● Upper link-to-bracket			88 - 108 (9.0 - 11.65 - 80)
	● Upper link bracket-to-car body			88 - 108 (9.0 - 11.65 - 80)
	● Spring upper seat lock nuts			18 - 24 (1.8 - 2.4, 13 - 17)
	● Shock absorber-to-3rd link			108 - 127 (11 - 13, 80 - 94)
	● Shock absorber-to-car body			39 - 54 (4.0 - 5.5, 29 - 40)
	● 3rd link-to-connecting rod			41 - 47 (4.2 - 4.8, 30 - 35)
	● Connecting rod-to-stabilizer			41 - 47 (4.2 - 4.8, 30 - 35)
	● Stabilizer bracket			39 - 49 (4.0 - 5.0, 29 - 36)
	Wheel alignment			
Rear suspension and axle	● Toe-in	mm (in)	○	2 ± 2 (0.08 ± 0.08)
	● Camber	degree		RB26DETT: -1°05' ± 30'
	Rear wheel bearing play			
	● Wheel bearing tightening torque	N-m (kg-m, ft-lb)		206 - 275 (21 - 28, 152 - 203)
	● Wheel bearing end play	mm (in)		0 (0)
	Tightening torque	N-m (kg-m, ft-lb)	○	
	● Suspension member securing nuts			98 - 118 (10 - 12, 72 - 87)
	● Final drive (on housing side) to suspension member			98 - 118 (10 - 12, 72 - 87)

F1 NEW VEHICLE AND PERIODIC INSPECTION AND MAINTENANCE STANDARDS

2. Chassis (Cont'd)

Item	New vehicle inspection	Periodic inspection	Inspection standards												
● Final drive (on differential case side) to suspension member			98 - 118 (10 - 12, 72 - 87)												
● Suspension member-to-lower arm			98 - 118 (10 - 12, 72 - 87)												
● Suspension member-to-upper link (front end)			77 - 98 (7.9 - 10, 57 - 72)												
● Suspension member-to-upper link (rear end)			77 - 98 (7.9 - 10, 57 - 72)												
● Suspension member-to-lower link			69 - 88 (7.0 - 9.0, 51 - 65)												
● Upper link (front end)-to-axle housing			77 - 98 (7.9 - 10, 57 - 72)												
● Upper link (rear end)-to-axle housing			77 - 98 (7.9 - 10, 57 - 72)												
● Lower link-to-axle housing			71 - 86 (7.2 - 8.8, 52 - 64)												
● Lower arm-to-connecting rod			9 - 12 (0.9 - 1.2, 6.5 - 8.7)												
● Connecting rod-to-stabilizer			9 - 12 (0.9 - 1.2, 6.5 - 8.7)												
● Stabilizer bracket			43 - 55 (4.4 - 5.6, 32 - 41)												
● Shock absorber-to-axle housing			88 - 108 (9.0 - 11, 65 - 80)												
● Shock absorber-to-car body			16 - 19 (1.6 - 1.9, 12 - 14)												
● Spring upper seat lock nuts			18 - 24 (1.8 - 2.4, 13 - 17)												
● Member stay-to-car body			43 - 55 (4.4 - 5.6, 32 - 41)												
Air pressure	○	○	(See text)												
Tire groove wear limit		○	1.6 (0.063)												
Wheel nut tightening torque	○	○	98 - 118 (10 - 12, 72 - 87)												
N·m (kg-m, ft-lb)			3 - 11 (0.12 - 0.43)												
Pedal play	○	○	Greater than 85 (3.35)												
Pedal-to-floor clearance (when depressed)		○													
mm (in)															
Pedal height	○		M/T: 172.5 - 182.5 (6.79 - 7.19)												
(From upper surface of floor panel)															
mm (in)															
Pad wear		○	<table><tr><td>Item</td><td>Type</td><td>OP235VR</td><td>OP211V8</td></tr><tr><td>Standard thickness</td><td></td><td>32 (1.26)</td><td>18 (0.71)</td></tr><tr><td>Service limit</td><td></td><td>30 (1.18)</td><td>16 (0.63)</td></tr></table>	Item	Type	OP235VR	OP211V8	Standard thickness		32 (1.26)	18 (0.71)	Service limit		30 (1.18)	16 (0.63)
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Service limit		30 (1.18)	16 (0.63)												
mm (in)															
Disk wear		○	<table><tr><td>Item</td><td>Type</td><td>OP235VR</td><td>OP211V8</td></tr><tr><td>Standard thickness</td><td></td><td>32 (1.26)</td><td>18 (0.71)</td></tr><tr><td>Service limit</td><td></td><td>30 (1.18)</td><td>16 (0.63)</td></tr></table>	Item	Type	OP235VR	OP211V8	Standard thickness		32 (1.26)	18 (0.71)	Service limit		30 (1.18)	16 (0.63)
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Standard thickness		32 (1.26)	18 (0.71)												
Service limit		30 (1.18)	16 (0.63)												
mm (in)															
Brake hose and tube installation		○													
● Flare nut tightening torque			15 - 18 (1.5 - 1.8, 11 - 13)												
N·m (kg-m, ft-lb)															
Brake drum wear		○	<table><tr><td>Item</td><td>Type</td><td>LT23C</td><td>DS174D</td></tr><tr><td>Standard I.D.</td><td></td><td>228.6 (9)</td><td>172 (6.77)</td></tr><tr><td>I.D. service limit</td><td></td><td>230 (9.06)</td><td>173 (6.81)</td></tr></table>	Item	Type	LT23C	DS174D	Standard I.D.		228.6 (9)	172 (6.77)	I.D. service limit		230 (9.06)	173 (6.81)
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Standard I.D.		228.6 (9)	172 (6.77)												
I.D. service limit		230 (9.06)	173 (6.81)												
mm (in)															
Brake lining wear		○	<table><tr><td>Item</td><td>Type</td><td>LT23C</td><td>DS174D</td></tr><tr><td>Standard thickness</td><td></td><td>4.8 (0.177)</td><td>3.0 (0.118)</td></tr><tr><td>Service limit</td><td></td><td>1.8 (0.069)</td><td>1.6 (0.059)</td></tr></table>	Item	Type	LT23C	DS174D	Standard thickness		4.8 (0.177)	3.0 (0.118)	Service limit		1.8 (0.069)	1.6 (0.059)
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Standard thickness		4.8 (0.177)	3.0 (0.118)												
Service limit		1.8 (0.069)	1.6 (0.059)												
mm (in)															
Lever pull, with a force of 196 N (20 kg, 44 lb)	○	○													
Center lever type: (notch)			6 - 8												

F1 NEW VEHICLE AND PERIODIC INSPECTION AND MAINTENANCE STANDARDS

2. Chassis (Cont'd)

Steering system	Steering wheel tightening torque N·m (kg-m, ft-lb)	○	○	29 - 39 (3.0 - 4.0, 22 - 29)
	Steering wheel play mm (in)	○	○	0 - 35 (0 - 1.38)
	Steering gear tightening torque N·m (kg-m, ft-lb)		○	
	● Steering gear securing bolts			88 - 108 (9.0 - 11.65 - 80)
	● Ball joint-to-knuckle spindle			29 - 39 (3.0 - 4.0, 22 - 29)
	Rod and arm tightening torque N·m (kg-m, ft-lb)		○	
	● Lower joint securing bolts			24 - 29 (2.4 - 3.0, 17 - 22)
	● Steering gear-to-inner socket			78 - 98 (8.0 - 10.58 - 72)
	● Side rod lock nuts			78 - 98 (8.0 - 10.58 - 72)
	Power steering belt tension (deflection when pressed midpoint of belt) mm (in)	○	○	
Steering system	Power steering system tightening torque N·m (kg-m, ft-lb)		○	
	● Oil pump securing bolts			31 - 42 (3.2 - 4.3, 23 - 31)
	● Oil pump pulley securing nuts			16 - 21 (1.6 - 2.1, 12 - 15) (Adjustment side)
	● Reservoir tank securing bolts			54 - 68 (5.5 - 6.9, 40 - 50)
	● Low pressure oil tube-to-steering gear			3 - 4 (0.3 - 0.4, 2.2 - 2.9)
	● High pressure oil tube-to-steering gear			27 - 39 (2.8 - 4.0, 20 - 29)
	● High pressure oil tube-to-oil pump			15 - 25 (1.5 - 2.5, 11 - 18)
	● Right tube clamp bracket-to-car body			49 - 69 (5.0 - 7.0, 36 - 51)
	● Front tube clamp bracket-to-car body			3 - 4 (0.3 - 0.4, 2.2 - 2.9)
	● Cylinder tube-to-gear housing			20 - 26 (2.0 - 2.7, 14 - 20)
SUPER HICAS	● Tightening torque of power cylinder fasteners/joints N·m (kg-m, ft-lb)		○	
	● Power cylinder securing bolts			84 - 108 (8.6 - 11.62 - 80)
	● Outer link rod lock nuts			37 - 46 (3.8 - 4.7, 27 - 34)
	● Power cylinder outer ring-to-axle housing			45 - 60 (4.6 - 6.1, 33 - 44)
	● Stroke stopper lock nuts			49 - 69 (5.0 - 7.0, 36 - 51)
	Tightening torque of power steering system fasteners/joints N·m (kg-m, ft-lb)		○	
	● Oil pump securing bolts			31 - 42 (3.2 - 4.3, 23 - 31)
	● Reservoir tank securing bolts			16 - 21 (1.6 - 2.1, 12 - 15) (Adjustment side)
	● HICAS solenoid valve union bolts (on reservoir tank side)			3 - 4 (0.3 - 0.4, 2.2 - 2.9)
	● HICAS solenoid valve union bolts (on oil pump side)			49 - 69 (5.0 - 7.0, 36 - 51)
SUPER HICAS	● HICAS solenoid valve (on high and low pressure sides)			49 - 69 (5.0 - 7.0, 36 - 51)
	● Solenoid valve-to-bracket			39 - 51 (4.0 - 5.2, 29 - 38)
	Oil pump-to-steering gear (on high pressure side of power steering)			18 - 24 (1.8 - 2.4, 13 - 17)
	Steering gear-to-reservoir tank (on low pressure side of power steering)			15 - 25 (1.5 - 2.5, 11 - 18)
	HICAS solenoid valve-to-oil pump			27 - 39 (2.8 - 4.0, 20 - 29)
	HICAS solenoid valve-to-reservoir tank			49 - 69 (5.0 - 7.0, 36 - 51)
	Power cylinder tube			49 - 69 (5.0 - 7.0, 36 - 51)
	Cylinder tube clamp			39 - 49 (4.0 - 5.0, 29 - 36)
	Hose clamp			4.4 - 5.8 (0.45 - 0.59, 3.3 - 4.3)
	● Cutoff valve bracket securing bolts			8 - 11 (0.8 - 1.1, 5.8 - 8.0)
	● Cutoff valve-to-power cylinder union bolts			13 - 16 (1.3 - 1.6, 9 - 12) (front)
	● Rear central piping-to-cutoff valve			4.4 - 5.8 (0.45 - 0.59, 3.3 - 4.3) (rear)
				49 - 69 (5.0 - 7.0, 36 - 51)

F2 PERIODIC REPLACEMENT PARTS AND MAINTENANCE STANDARDS

1. Engine

Periodic replacement parts	Replacement interval
Air cleaner element	Every 60,000 km (36,000 miles)
Timing belt	Every 100,000 km (60,000 miles)
Engine oil	Every 5,000 km (3,000 miles)
Oil filter	Every 10,000 km (6,000 miles) or yearly
Fuel filter	Every 100,000 km (60,000 miles)
Fuel hose (except for type D)	First time: After 5 years Thereafter: Every 4 years
	Every 2 years (inside engine compartment) Every 4 years (outside engine compartment)
LLC	First time: After 3 years Thereafter: Every 2 years
	Every 2 years
Catalyst	Yearly
Spark plug	Every 100,000 km (60,000 miles)

2. Chassis

Periodic replacement parts		Replacement interval
Brake system	Brake hose	First time: After 5 years Thereafter: Every 4 years Every 4 years
	Brake fluid	First time: After 3 years Thereafter: Every 2 years Yearly
	Master cylinder cup and dust seal	First time: After 3 years Thereafter: Every 2 years Every 2 years
	Wheel cylinder (including caliper) cup and dust seal	First time: After 5 years Thereafter: Every 4 years Every 2 years
Suspension ball joint grease		Every 120,000 km (72,000 miles) or every 4 years
Manual transmission fluid		Every 100,000 km (60,000 miles) or every 2 years
Differential fluid		Every 100,000 km (60,000 miles) or every 2 years

F3 LUBRICANTS AND SERVICE POINTS AND MAINTENANCE STANDARDS

1. Engine

Inspection and service points	Lubricant type	Remarks
Throttle chamber linkage	Nissan MP No. 2 Grease	Apply during disassembly.
Accelerator linkage	NISSAN MP No. 2 Grease or Chassis Grease	Apply during disassembly.

2. Chassis

Inspection and service points	Lubricant type	Remarks
Clutch disc spline	Nissan Clutch Grease (KRI06-00010)	
Main drive shaft spline		
Clutch release mechanism	Nissan Clutch Sleeve Grease (KRI06-00010)	
Manual transmission	Nissan Gear Oil MP-G Special GL-475W-90	Gear Oil GL-4 MP-G 80W-90 (for extremely cold areas)
Automatic transmission	Nissanmatic Fluid D	
Transfer	Nissanmatic Fluid D	
ETS hydraulic unit	Nissan Power Steering Fluid Special	
Propeller shaft center bearing washer	Nissan Clutch Molybdenum Grease	
Propeller shaft universal joint	Nissan MP Special Grease No. 2	
Front final drive	Nissan Gear Oil Hypoid GL-S 85W-90	
Rear final drive	Nissan Gear Oil Hypoid LSD GL-5 80W-90	
Drive shaft	6080 grease (Kyodo brand)	
Front and rear wheel bearings	Nissan MP Special Grease No. 2	
Brake (Master cylinder)	Nissan Brake Fluid No. 2500 (NR-3)	
Cylinder rubber parts (Brake system)	Nissan Rubber Lubricant (KRE12-00030)	
Disc brake	Nissan Disc Brake Grease (KRF16-00005)	
Brake pedal fulcrum pin or shaft	Nissan MP Special Grease No. 2	
Parking brake cable	Nissan MP Special Grease No. 2	
Power steering	Nissan Power Steering Fluid	

F4 SERVICE DATA AND MAINTENANCE STANDARDS

1. Tightening Torque

0-1 ENGINE COMPONENTS

	Components	Tightening torque		
		N·m	kg·m	ft·lb
Engine body	Main bearing cap bolts	46 - 52	4.7 - 5.3	34 - 38
	Connecting bolts and nuts	① 14 - 16	1.4 - 1.6 ② (80° - 65°)	10 - 12
	Flywheel bolts (M/T models)	142 - 152	14.5 - 15.5	105 - 112
	Drive plate bolts (A/T models)	—	—	—
	Crank pulley bolts	446 - 466	45.5 - 47.5	329 - 344
	Oil strainer securing bolt	16 - 21	1.6 - 2.1	12 - 15
	Rear oil seal retainer securing bolts	6.3 - 8.3	0.64 - 0.85	4.6 - 6.1
	Oil pump securing bolts	10 - 12	1.0 - 1.2	7 - 9
	Water pump securing bolts	M8: 7 - 8 M8: 16 - 21 M10: 30 - 40	0.7 - 0.8 1.6 - 2.1 3.1 - 4.1	5.1 - 5.8 12 - 15 22 - 30
	Cam pulley securing bolts	14 - 19	1.4 - 1.9	10 - 14
	Camshaft retainer securing bolts	9.0 - 11.8	0.92 - 1.2	6.7 - 8.7
	Rocker cover screws	2 - 4	0.2 - 0.4	1.4 - 2.9
	Timing belt cover	3 - 5	0.3 - 0.5	2.2 - 3.6
	Belt tensioner securing nut	43 - 58	4.4 - 5.9	32 - 43
	Water drain plug	34 - 44	3.5 - 4.5	25 - 33
	Blow-by control valve	29 - 39	3.0 - 4.0	22 - 29
	Oil pan drain plug	29 - 39	3.0 - 4.0	22 - 29
	Oil pan securing bolts	M6: 6.3 - 8.3 M10: 31 - 42	0.64 - 0.85 3.2 - 4.3	4.6 - 6.1 23 - 31
	Oil filter stud: (cylinder block side)	29 - 39	3.0 - 4.0	22 - 29
Intake and exhaust systems	(oil filter side)	15 - 21	1.5 - 2.1	11 - 15
	Cylinder head bolts	M12: ① 29 ② 108 ③ 0 (Lower) ④ 29 ⑤ (85° - 90°) or 103 - 113	3 11 0 3 (85° - 90°) or 10.5 - 11.5	22 80 0 22 (85° - 90°) 076 - 83
	Intake manifold securing bolts	M6: 9.0 - 11.8	0.92 - 1.2	6.7 - 8.7
	Intake manifold securing nuts	16 - 21	1.6 - 2.1	12 - 15
	Collector bolts	16 - 21	1.6 - 2.1	12 - 15
	Exhaust manifold securing nuts	18 - 24	1.8 - 2.4	13 - 17
	O ₂ sensor securing nuts	18 - 24	1.8 - 2.4	13 - 17
	Throttle chamber securing bolts	16 - 21	1.6 - 2.1	12 - 15
	Throttle valve switch	2.0 - 2.4	0.2 - 0.24	1.4 - 1.7
	Intake manifold support bracket securing bolts	—	—	—
	Turbocharger inlet nuts	23 - 29	2.3 - 3.0	17 - 22
	Turbocharger outlet nuts	23 - 29	2.3 - 3.0	17 - 22
	Water bypass tube	15 - 20	1.5 - 2.0	11 - 14

F4 SERVICE DATA AND MAINTENANCE STANDARDS

1. Tightening Torque (Cont'd)

	Components	Tightening torque		
		RB26DET		
		N·m	kg·m	ft·lb
Intake and exhaust systems	Turbocharger oil tube (turbo side)	17 - 21	1.7 - 2.1	12 - 15
	Turbocharger oil tube (cylinder block side)	15 - 20	1.5 - 2.0	11 - 14
	Turbocharger water tube (turbo side)	20 - 31	2 - 3.2	14 - 23
	Turbocharger water tube (cylinder block side)	20 - 31	2 - 3.2	14 - 23
	Crank angle sensor	4 - 5	0.4 - 0.5	2.9 - 3.6
Sensors and others	Crank angle sensor bracket	16 - 21	1.6 - 2.1	12 - 15
	Spark plugs	20 - 29	2.0 - 3.0	14 - 22
	Engine temperature sensor	20 - 29	2.0 - 3.0	14 - 22
	Thermal transmitter	15 - 20	1.5 - 2.0	11 - 14
	Knock sensor	21 - 26	2.1 - 2.7	15 - 20
	O ₂ sensor	18 - 24	1.8 - 2.4	13 - 17
	Exhaust temperature sensor	25 - 34	2.5 - 3.5	18 - 25
	Injector holder securing bolts	4 - 5	0.4 - 0.5	2.9 - 3.6
	Air regulator securing bolts	8.4 - 10.8	0.86 - 1.1	6.2 - 8.0
	IAA unit securing bolts	—	—	—
	Water outlet securing bolts	16 - 21	1.6 - 2.1	12 - 15
	Water inlet securing bolts	—	—	—
	Alternator securing-adjusting bolts	9.1 - 11.8	0.93 - 1.2	6.7 - 8.7
	Alternator securing nuts	45 - 60	4.6 - 6.1	33 - 44
	Starter motor securing bolts	30 - 40	3.1 - 4.1	22 - 30
	Compressor securing bolts	37 - 50	3.8 - 5.1	27 - 37
	Compressor bracket securing bolts	37 - 50	3.8 - 5.1	27 - 37
	Power steering bracket securing bolts	37 - 50	3.8 - 5.1	27 - 37
	Power steering adjustment bar securing bolts	14 - 19	1.4 - 1.9	10 - 14
	Ignition coil bracket securing bolts	9.1 - 11.8	0.93 - 1.2	6.7 - 8.7

F4 SERVICE DATA AND MAINTENANCE STANDARDS

1. Tightening Torque (Cont'd)

1-2 MANUAL TRANSMISSION COMPONENTS

Unit: N·m (kg·m, ft·lb)	
Components	Type FS5R30A
Rear extension securing bolts	31 - 42 (3.2 - 4.3, 23 - 31)
Front cover securing bolts	16 - 21 (1.6 - 2.1, 12 - 15)
Check ball plug	19 - 25 (1.9 - 2.6, 14 - 19)
Filler plug	25 - 34 (2.5 - 3.5, 18 - 25)
Drain plug	25 - 34 (2.5 - 3.5, 18 - 25)
Reverse lamp switch	20 - 29 (2.0 - 3.0, 14 - 22)
Neutral switch	20 - 29 (2.0 - 3.0, 14 - 22)
Control housing-to-rear extension	
M8 bolts	16 - 21 (1.6 - 2.1, 12 - 15)
Select check plug	20 - 29 (2.0 - 3.0, 14 - 22)
Bearing retainer-to- adapter plate	16 - 21 (1.6 - 2.1, 12 - 15)
5-R fork rod securing bolts	16 - 21 (1.6 - 2.1, 12 - 15)
Reverse fork securing bolts	19 - 25 (1.9 - 2.6, 14 - 19)
Rear guide plate securing bolts	6.3 - 8.3 (0.64 - 0.85, 4.6 - 6.1)

F4 SERVICE DATA AND MAINTENANCE STANDARDS

1. Tightening Torque (Cont'd)

1-3 F160 FINAL DRIVE

Unit: N·m (kg·m, ft·lb)	
Components	Tightening torque
Drive gear securing bolts	93 - 113 (9.5 - 11.5, 69 - 83)
Drive pinion securing bolts	167 - 196 (17 - 20, 123 - 145)
Side retainer securing bolts	16 - 19 (1.6 - 1.9, 12 - 14)
Side shaft securing bolts	16 - 21 (1.6 - 2.1, 12 - 15)
Carrier cover securing bolts	29 - 37 (3.0 - 3.8, 22 - 27)

1-4 R200 FINAL DRIVE

Unit: N·m (kg·m, ft·lb)	
Components	Tightening torque
Drive gear securing bolts	177 - 196 (18.0 - 20.0, 130 - 145)
Bearing cap securing bolt	88 - 98 (9 - 10, 65 - 72)
Drive pinion securing nut	186 - 294 (19 - 30, 137 - 217)
Carrier case cover securing nuts	39 - 49 (4 - 5, 29 - 36)
Drain plug	59 - 98 (6 - 10, 43 - 72)
Filler plug	59 - 98 (6 - 10, 43 - 72)

F4 SERVICE DATA AND MAINTENANCE STANDARDS

2. Engine Specifications and Major Data

	Item	RB26DET
Cylinder block	Bore diameter	86.000 - 86.030 (3.3858 - 3.3870)
	Wear limit	0.2 (0.008)
	Out-of-roundness	0.015 (0.0006)
	Taper	0.010 (0.0004)
	Warpage limit of cylinder block upper surface	0.1 (0.004)
Cylinder head	Ream limit of valve guide holes Intake	10.46 - 10.67 (0.4118 - 0.4201)
	Exhaust	11.46 - 11.47 (0.4512 - 0.4516)
	Ream limit of inside diameter Intake	6.000 - 6.018 (0.2362 - 0.2369)
	Exhaust	7.000 - 7.018 (0.2756 - 0.2763)
	Service limit of valve guide-to-valve stem clearance	0.080 - 0.113 (0.0031 - 0.0044)
Piston rings	Warpage limit of lower surface	0.2 (0.008)
	Cylinder head gasket thickness	1.2 (0.047)
	Piston type	Thermal flow
	Standard outside diameter of piston skirt	85.955 - 85.985 (3.3840 - 3.3852)
	Piston skirt-to-cylinder clearance	0.035 - 0.055 (0.0014 - 0.0022)
Connecting rod	Standard piston pin outside diameter	20.989 - 21.001 (0.8263 - 0.8268)
	Piston pin-to-piston pin bore clearance	0 to -0.004 (0 to -0.0002)
	Piston ring end clearance Top	0.24 - 0.34 (0.0094 - 0.0134)
	Second	0.42 - 0.57 (0.0165 - 0.0224)
	Oil	0.20 - 0.60 (0.0079 - 0.0236)
Crankshaft	Piston ring side clearance Top	0.040 - 0.075 (0.0016 - 0.0030)
	Second	0.030 - 0.065 (0.0012 - 0.0026)
	Oil	0.065 - 0.135 (0.0026 - 0.0053)
	Center-to-center distance of large and small end bores	121.45 - 121.55 (4.7815 - 4.7854)
	Large end bore diameter	47.989 - 48.007 (1.8893 - 1.8900)
Camshaft	Bend and twist limit [per 100 mm (3.94 in) in length]	Bend 0.15 (0.0059) and Twist 0.3 (0.012)
	Large end side clearance	0.2 - 0.3 (0.008 - 0.012)
	Large end oil clearance	0.020 - 0.040 (0.0008 - 0.0016)
	Piston pin-to-connecting rod small end bore clearance	0.005 - 0.017 (0.0002 - 0.0007)
	Standard journal diameter	54.951 - 54.975 (2.1634 - 2.1644)
Camshaft	Standard pin diameter	47.961 - 47.974 (1.8882 - 1.8887)
	Out-of-roundness and taper of journal	Less than 0.005 (0.0002)
	Out-of-roundness and taper of pin	Less than 0.005 (0.0002)
	Main bearing oil clearance	0.028 - 0.047 (0.0011 - 0.0019) (selective fit)
	Standard thrust clearance	0.2 - 0.3 (0.008 - 0.012)
Camshaft	Cam nose height (oblong diameter) Intake	40.580 - 40.583 (1.5976 - 1.5978)
	Exhaust	40.280 - 40.283 (1.5858 - 1.5859)
	Bend limit	0.05 (0.0020)
	Standard cam bracket inside diameter	No. 1 - No. 7 28.000 - 28.021 (1.1024 - 1.1032)
	Standard cam journal outside diameter	No. 1 - No. 7 27.935 - 27.955 (1.0998 - 1.1006)

F4 SERVICE DATA AND MAINTENANCE STANDARDS

2. Engine Specifications and Major Data (Cont'd)

	Item	RB26DETT
Camshaft	Standard bracket-to-journal clearance	mm (in)
		No. 1 - No. 7 0.045 - 0.086 (0.0018 - 0.0034)
	Standard end play	mm (in) 0.030 - 0.080 (0.0012 - 0.0031)
Valves and valve springs	Standard valve lifter outside diameter	mm (in) 30.955 - 30.965 (1.2187 - 1.2191)
	Lifter guide bore diameter	mm (in) 31.000 - 31.020 (1.2205 - 1.2213)
	Standard lifter-to-lifter guide clearance	mm (in) 0.035 - 0.065 (0.0014 - 0.0026)
	Valve face outside diameter	mm (in) 34.5 - 34.7 (1.358 - 1.366) 30.0 - 30.2 (1.181 - 1.189)
	Valve stem outside diameter	mm (in) 5.980 - 5.965 (0.2354 - 0.2348) 6.920 - 6.905 (0.2724 - 0.2718)
	Valve spring squareness limit	mm (in) 1.8 (0.071) (Single spring)
	Standard valve spring free length	mm (in) 46.54 (1.8323) (Single spring)
	Standard as-installed load of valve spring	N (kg, lb) 235.4 (24.0, 52.9) [35 mm (1.38 in)] (Single spring)
	Runout limit (on clutch disc mating surface) (M/T models)	mm (in) 1.0 (0.039)
Flywheel		