

## Torque Specifications

### NOTE:

- \* Refer to the appropriate portion of the manual for the precautions and complete procedures.
- \* Refer to the appropriate portion of the manual for the bolts/nuts not indicated here.
- \* 1: Parts to be tightened in a particular order.
- \* 2: Follow the appropriate manual procedures closely for torque, sequence, and special steps.

### Engine Electrical (R18Z1)

Location	Item	Remark	Torque
Starting system	Starter bolts		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Starter harness clamp nut		9.0 N·m (0.92 kgf·m, 6.6 lbf·ft)
Ignition system	Spark plugs		18 N·m (1.8 kgf·m, 13 lbf·ft)
Charging system	Alternator bolts		24 N·m (2.4 kgf·m, 17 lbf·ft)
	Drive belt auto-tensioner bolt (8 mm)		24 N·m (2.4 kgf·m, 17 lbf·ft)
	Drive belt auto-tensioner bolt (10 mm)		55 N·m (5.6 kgf·m, 41 lbf·ft)
	Idler pulley bolt		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Idler pulley base bolts		24 N·m (2.4 kgf·m, 17 lbf·ft)

### Engine Electrical (K24Z7)

Location	Item	Remark	Torque
Starting system	Starter bolt (10 mm)		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Starter bolt (12 mm)		64 N·m (6.5 kgf·m, 47 lbf·ft)
	Starter harness clamp nut		9.0 N·m (0.92 kgf·m, 6.6 lbf·ft)
Ignition system	Spark plugs		18 N·m (1.8 kgf·m, 13 lbf·ft)
Charging system	Alternator bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Drive belt auto-tensioner bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Drive belt auto-tensioner pulley bolt		56 N·m (5.7 kgf·m, 41 lbf·ft)
	Idler pulley bolt		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Idler pulley base bolts		45 N·m (4.6 kgf·m, 33 lbf·ft)

### Engine Mechanical (R18Z1)

Location	Item	Remark	Torque
Engine assembly	Side engine mount bolts		64 N·m (6.5 kgf·m, 47 lbf·ft)
	Side engine mount stiffener bolt	Use new bolt	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Side engine mount stiffener nut		49 N·m (5.0 kgf·m, 36 lbf·ft)
	Side engine mount bracket bolt	Use new bolt	93 N·m (9.5 kgf·m, 69 lbf·ft)
	Side engine mount bracket nut	Use new nut	93 N·m (9.5 kgf·m, 69 lbf·ft)
	Lower torque rod bolts (12 mm) * 2	Use new bolts	64 N·m (6.5 kgf·m, 47 lbf·ft)
	Lower torque rod bolt (14 mm) * 2	Use new bolt	93 N·m (9.5 kgf·m, 69 lbf·ft)
	Lower torque rod bracket bolts	Use new bolts	79 N·m (8.1 kgf·m, 58 lbf·ft)
	Transmission mount bracket bolts	Use new bolts	84 N·m (8.6 kgf·m, 62 lbf·ft)
	Transmission mount bracket nuts	Use new nuts	84 N·m (8.6 kgf·m, 62 lbf·ft)
	Engine lubrication	Oil pressure switch	Apply liquid gasket on threads
Oil pan drain bolt		Use new washer	39 N·m (4.0 kgf·m, 29 lbf·ft)
Oil filter			12 N·m (1.2 kgf·m, 9 lbf·ft)
Oil filter feed pipe			35 N·m (3.6 kgf·m, 26 lbf·ft)
Intake manifold and exhaust system	Intake manifold bolts * 1		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Intake manifold nuts * 1		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Muffler flexible joint bolts * 1		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Exhaust pipe A flexible joint bolts * 1		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Exhaust pipe B self-locking nuts	Use new nuts	33 N·m (3.4 kgf·m, 25 lbf·ft)

## Engine Mechanical (K24Z7)

Location	Item	Remark	Torque
Engine assembly	Side engine mount bolts		64 N·m (6.5 kgf·m, 47 lbf·ft)
	Side engine mount stiffener bolts		49 N·m (5.0 kgf·m, 36 lbf·ft)
	Side engine mount bracket bolt	Use new bolt	93 N·m (9.5 kgf·m, 69 lbf·ft)
	Side engine mount bracket nut	Use new nut	93 N·m (9.5 kgf·m, 69 lbf·ft)
	Upper torque rod bolt * 2	Use new bolt	64 N·m (6.5 kgf·m, 47 lbf·ft)
	Lower torque rod bolt (12 mm) * 2	Use new bolt	74 N·m (7.5 kgf·m, 55 lbf·ft)
	Lower torque rod bolt (14 mm) * 2	Use new bolt	93 N·m (9.5 kgf·m, 67 lbf·ft)
	Lower torque rod bracket bolts	Use new bolts	79 N·m (8.2 kgf·m, 54 lbf·ft)
	Transmission mount bolts	Use new bolts	74 N·m (7.5 kgf·m, 54 lbf·ft)
	Transmission mount bracket bolt	Use new bolt	83 N·m (8.5 kgf·m, 61 lbf·ft)
	Transmission mount nuts	Use new nuts	83 N·m (8.5 kgf·m, 61 lbf·ft)
Engine lubrication	Oil pressure switch	Apply liquid gasket on threads	18 N·m (1.8 kgf·m, 13 lbf·ft)
	Oil pan drain bolt	Use new washer	39 N·m (4.0 kgf·m, 29 lbf·ft)
	Oil filter		12 N·m (1.2 kgf·m, 9 lbf·ft)
Intake manifold and exhaust system	Intake manifold bolts * 1		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Intake manifold nuts * 1		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Muffler flexible joint bolts * 1	Use new bolts	22 N·m (2.2 kgf·m, 16 lbf·ft)
	Exhaust pipe B self-locking nuts	Use new nuts	33 N·m (3.4 kgf·m, 25 lbf·ft)

## Engine Cooling (R18Z1)

Location	Item	Remark	Torque
Cooling system	Thermostat housing bolts		24 N·m (2.4 kgf·m, 18 lbf·ft)

## Engine Cooling (K24Z7)

Location	Item	Remark	Torque
Cooling system	Water passage bolts		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Water passage nuts		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Water outlet bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Water outlet nuts		22 N·m (2.2 kgf·m, 16 lbf·ft)

## Fuel and Emissions

Location	Item	Remark	Torque	
Fuel and emissions	A/F sensor		44 N·m (4.5 kgf·m, 32 lbf·ft)	
	Fuel tank locknut * 2	Use new locknut and new O-ring	120 N·m (12.2 kgf·m, 88 lbf·ft)	
	Fuel tank support straps bolts		38 N·m (3.9 kgf·m, 28 lbf·ft)	
	Knock sensor nut		22 N·m (2.2 kgf·m, 16 lbf·ft)	
	PCV valve	Use new washer	44 N·m (4.5 kgf·m, 32 lbf·ft)	
	Rocker arm oil pressure switch	Use new O-ring	22 N·m (2.2 kgf·m, 16 lbf·ft)	
	Secondary HO2S		44 N·m (4.5 kgf·m, 32 lbf·ft)	
	Throttle body bolts	Use new gasket	22 N·m (2.2 kgf·m, 16 lbf·ft)	
	TWC upper bolts and nuts	R18Z1	Use new gaskets	32 N·m (3.2 kgf·m, 24 lbf·ft)
	TWC self locking nuts	K24Z7	Use new gaskets and nuts	33 N·m (3.4 kgf·m, 24 lbf·ft)

## Clutch

Location	Item	Remark	Torque
Clutch	Clutch push rod locknut		17 N·m (1.7 kgf·m, 13 lbf·ft)
	Clutch pedal position switch locknuts		9.4 N·m (0.96 kgf·m, 6.9 lbf·ft)
	Clutch pedal bolt		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Master cylinder nuts		12 N·m (1.2 kgf·m, 9 lbf·ft)
	Slave cylinder bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)

Flywheel bolts	5M/T	103 N·m (10.5 kgf·m, 76 lbf·ft)
	6M/T	123 N·m (12.5 kgf·m, 91 lbf·ft)
Pressure plate bolts * 2	5M/T	25 N·m (2.5 kgf·m, 18 lbf·ft)
	6M/T	26 N·m (2.7 kgf·m, 19 lbf·ft)
Release fork bolt		29 N·m (3.0 kgf·m, 21 lbf·ft)

## Manual Transmission

Location	Item	Remark	Torque	
Manual transmission	MTF drain plug	Use new sealing washer	39 N·m (4.0 kgf·m, 29 lbf·ft)	
	MTF filler plug	Use new sealing washer	44 N·m (4.5 kgf·m, 32 lbf·ft)	
	Back-up light switch	5M/T	Use new sealing washer	29 N·m (3.0 kgf·m, 21 lbf·ft)
		6M/T	Use liquid gasket on threads	29 N·m (3.0 kgf·m, 21 lbf·ft)
	Upper transmission bolts		64 N·m (6.5 kgf·m, 47 lbf·ft)	
	Lower transmission bolts (10 mm)		44 N·m (4.5 kgf·m, 32 lbf·ft)	
	Lower transmission bolts (12 mm)		64 N·m (6.5 kgf·m, 47 lbf·ft)	
	Shift lever housing bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)	
	Shift cable bracket bolts		27 N·m (2.8 kgf·m, 20 lbf·ft)	

## Automatic Transmission

Location	Item	Remark	Torque
Automatic transmission	ATF drain plug	Use new sealing washer	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Clutch pressure inspection port sealing bolts	Use new sealing washers	18 N·m (1.8 kgf·m, 13 lbf·ft)
	Drive plate bolts * 2		74 N·m (7.5 kgf·m, 55 lbf·ft)
	Shift lever assembly bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Shift cable end nut		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Transmission fluid pressure switches	Use new sealing washer	20 N·m (2.0 kgf·m, 15 lbf·ft)
	Transmission assembly mounting bolts		64 N·m (6.5 kgf·m, 47 lbf·ft)
	ATF warmer bolts		26 N·m (2.7 kgf·m, 19 lbf·ft)

## Driveline/Axle

Location	Item	Remark	Torque
Driveline/axle	Driveshaft spindle nut (22mm)	Use oil on the seating surface	181 N·m (18.5 kgf·m, 133 lbf·ft)
		Use new nut	
	Driveshaft spindle nut (24mm)	Use oil on the seating surface	245 N·m (25.0 kgf·m, 181 lbf·ft)
		Use new nut	
Intermediate shaft dowel bolts		39 N·m (4.0 kgf·m, 29 lbf·ft)	
Intermediate shaft flange bolt		39 N·m (4.0 kgf·m, 29 lbf·ft)	

## Steering

Location	Item	Remark	Torque value
Steering	Steering wheel nut		39 N·m (4.0 kgf·m, 29 lbf·ft)
	Steering joint bolts		29 N·m (3.0 kgf·m, 21 lbf·ft)
	Steering column bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Steering column nuts		13 N·m (1.3 kgf·m, 10 lbf·ft)
	Steering gearbox bolts	Use new bolts	94 N·m (9.6 kgf·m, 69 lbf·ft)
	Steering gearbox stiffener bolts		49 N·m (5.0 kgf·m, 36 lbf·ft)
	Tie-rod end nuts		54 N·m (5.5 kgf·m, 40 lbf·ft)

Tie-rod end lock nuts	44 N·m (4.5 kgf·m, 32 lbf·ft)
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## Suspension

Location	Item	Remark	Torque	
Front suspension	Wheel nuts		108 N·m (11.0 kgf·m, 80 lbf·ft)	
	Knuckle damper pinch bolts/nuts	Except Si	Use new bolts/nuts	115 N·m (11.7 kgf·m, 85 lbf·ft)
		Si	Use new bolts/nuts	157 N·m (16.0 kgf·m, 116 lbf·ft)
	Lower ball joint nuts	Use new nuts	59 N·m (6.0 kgf·m, 44 lbf·ft)	
	Lower ball joint bolt	Use new bolt	59 N·m (6.0 kgf·m, 44 lbf·ft)	
	Lower ball joint castle nut	Use new nut	59 - 69 N·m (6.0 - 7.0 kgf·m, 44 - 51 lbf·ft)	
	Lower arm bolt (12mm)	Use new bolt	64 N·m (6.5 kgf·m, 47 lbf·ft)	
	Lower arm bolt (14mm)	Use new bolt	83 N·m (8.5 kgf·m, 61 lbf·ft)	
	Stabilizer bar bolts		39 N·m (4.0 kgf·m, 29 lbf·ft)	
	Stabilizer link self-locking nut	Use new nut	37 N·m (3.8 kgf·m, 27 lbf·ft)	
	Stabilizer link nut	Use new nut	34 N·m (3.5 kgf·m, 25 lbf·ft)	
	Damper self-locking nut	Use new nut	44 N·m (4.5 kgf·m, 32 lbf·ft)	
	Damper upper nuts	Except Si and 2-door	Use new nuts	54 N·m (5.5 kgf·m, 40 lbf·ft)
		Si and 2-door	Use new nuts	44 N·m (4.5 kgf·m, 32 lbf·ft)
Rear suspension	Wheel nuts		108 N·m (11.0 kgf·m, 80 lbf·ft)	
	Knuckle bolt (14mm)	Use new bolt	88 N·m (9.0 kgf·m, 65 lbf·ft)	
	Knuckle nut (12mm)	Use new nut	69 N·m (7.0 kgf·m, 51 lbf·ft)	
	Upper arm bolts (12mm)	Use new bolts	59 N·m (6.0 kgf·m, 44 lbf·ft)	
	Upper arm bolt (12mm)	Use new bolt	108 N·m (11.0 kgf·m, 80 lbf·ft)	
	Trailing arm front bolts	Use new bolts	115 N·m (11.7 kgf·m, 85 lbf·ft)	
	Trailing arm rear bolt	Use new bolt	59 N·m (6.0 kgf·m, 44 lbf·ft)	
	Stabilizer bar bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)	
	Stabilizer bar bolts	Except Si		22 N·m (2.2 kgf·m, 16 lbf·ft)
		Si		49 N·m (5.0 kgf·m, 36 lbf·ft)
	Stabilizer link self-locking nut	Use new nut	38 N·m (3.9 kgf·m, 28 lbf·ft)	
	Stabilizer link nut	Use new nut	39 N·m (4.0 kgf·m, 29 lbf·ft)	
	Damper lower bolt	Use new bolt	59 N·m (6.0 kgf·m, 44 lbf·ft)	
	Damper upper self-locking nut	Use new nut	30 N·m (3.1 kgf·m, 22 lbf·ft)	

## Brake

Location	Item	Remark	Torque
Conventional brake	Front brake caliper bolts		34 N·m (3.5 kgf·m, 25 lbf·ft)
	Front brake caliper bracket bolts		108 N·m (11.0 kgf·m, 80 lbf·ft)
	Front brake hose banjo bolt	Use new washers	35 N·m (3.6 kgf·m, 26 lbf·ft)
	Rear brake caliper bolts		23 N·m (2.3 kgf·m, 17 lbf·ft)
	Rear brake caliper bracket bolts		75 N·m (7.6 kgf·m, 55 lbf·ft)
	Rear brake hose banjo bolt	Use new washers	35 N·m (3.6 kgf·m, 26 lbf·ft)
	Parking brake lever bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	4-way joint brake line		15 N·m (1.5 kgf·m, 11 lbf·ft)
	Brake pedal bracket bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Brake booster/brake pedal nuts		12 N·m (1.2 kgf·m, 9 lbf·ft)
	Master cylinder nuts		41 N·m (4.2 kgf·m, 30 lbf·ft)
	Master cylinder brake line		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Power unit accumulator		54 N·m (5.5 kgf·m, 40 lbf·ft)
VSA	VSA modulator-control unit brake line (10 mm)		15 N·m (1.5 kgf·m, 11 lbf·ft)
	VSA modulator-control unit brake line (12 mm)		22 N·m (2.2 kgf·m, 16 lbf·ft)

## Body

Location	Item	Remark	Torque
Frame	Rear floor under bar bolts		38 N·m (3.9 kgf·m, 28 lbf·ft)

Middle floor crossmember nuts * 1		38 N·m (3.9 kgf·m, 28 lbf·ft)
Middle floor crossmember bolts * 1		64 N·m (6.5 kgf·m, 47 lbf·ft)
Rear floor upper crossmember gusset bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
Subframe mounting bolts * 1	Use new bolts	104 N·m (10.6 kgf·m, 77 lbf·ft)
Mid stiffener mounting bolts * 1	Use new bolts	64 N·m (6.5 kgf·m, 47 lbf·ft)
Steering gearbox stiffener mounting bolts * 1		49 N·m (5.0 kgf·m, 36 lbf·ft)

### Heating, Ventilation, and Air Conditioning

Location	Item		Remark	Torque
A/C compressor	A/C compressor bracket bolts	R18Z1		24 N·m (2.4 kgf·m, 18 lbf·ft)
	A/C compressor bracket bolts	K24Z7		45 N·m (4.6 kgf·m, 33 lbf·ft)
	A/C compressor bolts			22 N·m (2.2 kgf·m, 16 lbf·ft)
	A/C compressor center nut			26 N·m (2.7 kgf·m, 19 lbf·ft)
	A/C compressor relief valve			9.8 N·m (1.00 kgf·m, 7.2 lbf·ft)
Receiver line	A/C pressure sensor			11 N·m (1.1 kgf·m, 8 lbf·ft)

### Body Electrical

Location	Item	Remark	Torque
Wipers/washers	Windshield wiper arm nut		30 N·m (3.1 kgf·m, 22 lbf·ft)
	Windshield wiper linkage nut		31 N·m (3.2 kgf·m, 23 lbf·ft)