

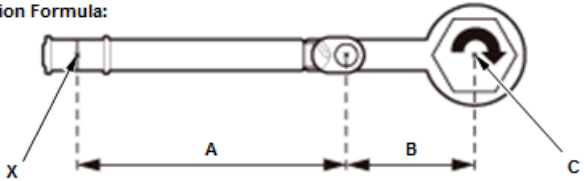
TORQUE SPECIFICATIONS (KA/KC)

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.
- When using some special tools or crowfoot-type wrenches, the **torque** value changes due to the added leverage. The actual **torque** applied will be greater than the **torque** reading shown.
 - The **torque** specification given is the actual **torque**, not the reading on the **torque** wrench.
 - To compensate for this additional leverage, use the formula below to calculate the **torque** value reading on the **torque** wrench.
 - Always use the special tool or crowfoot-type wrench in a straight line with the **torque** wrench, or you will apply improper **torque**.

Calculation Formula:



$$\text{Reading of the torque wrench (X)} = \frac{\text{Torque wrench effective length (A)}}{\text{Torque wrench effective length (A)} + \text{Special tool/crowfoot-type effective length (B)}} \times \text{Specified torque (C)}$$

Engine Electrical (1.5 L Engine)

Location	Item	Remark	Torque
Starting system	Starter bolt (10 mm)		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Starter bolt (12 mm)		65 N·m (6.6 kgf·m, 48 lbf·ft)
	Positive starter cable nut		9.0 N·m (0.92 kgf·m, 6.6 lbf·ft)
Ignition system	Spark plugs		22 N·m (2.2 kgf·m, 16 lbf·ft)
Charging system	Alternator bolts		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Positive alternator cable nut		12 N·m (1.2 kgf·m, 9 lbf·ft)
	Drive belt auto-tensioner bolt (8 mm)		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Drive belt auto-tensioner bolt (10 mm)		55 N·m (5.6 kgf·m, 41 lbf·ft)
	Drive belt auto-tensioner damper		32 N·m (3.3 kgf·m, 24 lbf·ft)

Engine Electrical (2.4 L Engine)

Location	Item	Remark	Torque
Starting system	Starter bolts		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Positive starter cable nut		9.0 N·m (0.92 kgf·m, 6.6 lbf·ft)
Ignition system	Spark plugs		22 N·m (2.2 kgf·m, 16 lbf·ft)

Location	Item	Remark	Torque
Charging system	Alternator bolts		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Positive alternator cable nut		12 N·m (1.2 kgf·m, 9 lbf·ft)
	Drive belt auto-tensioner bolt (8 mm)		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Drive belt auto-tensioner bolt (10 mm)		55 N·m (5.6 kgf·m, 41 lbf·ft)
	Drive belt auto-tensioner damper		32 N·m (3.3 kgf·m, 24 lbf·ft)

Engine Mechanical (1.5 L Engine)

Location	Item	Remark	Torque
Engine assembly	Side engine mount bolts (12 mm)	Use new bolts	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Side engine mount bolts (14 mm)	Use new bolts	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Side engine mount nut	Use new nut	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Side engine mount bracket bolts	Use new bolts	55 N·m (5.6 kgf·m, 41 lbf·ft)
	Transmission mount bolt (12 mm)	Use new bolt	50 N·m (5.1 kgf·m, 37 lbf·ft)
	Transmission mount bolts (14 mm)	Use new bolts	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Transmission mount nuts	Use new nuts	50 N·m (5.1 kgf·m, 37 lbf·ft)
	Lower torque rod bolts (12 mm)	Use new bolts	45 N·m (4.6 kgf·m, 33 lbf·ft)
	Lower torque rod bolt (14 mm)	Use new bolt	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Lower torque rod bracket bolts	Use new bolts	49 N·m (5.0 kgf·m, 36 lbf·ft)

Location	Item		Remark	Torque
	Upper torque rod bolts		Use new bolts	40 N·m (4.1 kgf·m, 30 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	40 N·m (4.1 kgf·m, 30 lbf·ft)
	Oil filter			12 N·m (1.2 kgf·m, 9 lbf·ft)
Intake manifold and exhaust system	Intake manifold bolts *2			24 N·m (2.4 kgf·m, 18 lbf·ft)
	Intake manifold nuts *2			24 N·m (2.4 kgf·m, 18 lbf·ft)
	Exhaust pipe A self-locking nuts	TWC side	Use new gasket and nuts	54 N·m (5.5 kgf·m, 40 lbf·ft)
	Muffler R self-locking nuts (dual muffler)	Exhaust pipe A side	Use new gasket and nuts	33 N·m (3.4 kgf·m, 24 lbf·ft)
		Muffler L side	Use new gasket and nuts	54 N·m (5.5 kgf·m, 40 lbf·ft)
	Turbocharger self-locking nuts*1		Use new gasket and nuts	45 N·m (4.6 kgf·m, 33 lbf·ft)
	Turbocharger bolts*1		Use new gasket	45 N·m (4.6 kgf·m, 33 lbf·ft)

Engine Mechanical (2.4 L Engine)

Location	Item	Remark	Torque
Engine assembly	Side engine mount bolts (12 mm)	Use new bolts	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Side engine mount bolts (14 mm)	Use new bolts	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Side engine mount nut	Use new nut	75 N·m (7.6 kgf·m, 55 lbf·ft)

Location	Item	Remark	Torque
	Side engine mount bracket bolts	Use new bolts	55 N·m (5.6 kgf·m, 41 lbf·ft)
	Transmission mount bolt (12 mm)	Use new bolt	50 N·m (5.1 kgf·m, 37 lbf·ft)
	Transmission mount bolts (14 mm)	Use new bolts	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Transmission mount nuts	Use new nuts	50 N·m (5.1 kgf·m, 37 lbf·ft)
	Lower torque rod bolts (12 mm)	Use new bolts	45 N·m (4.6 kgf·m, 33 lbf·ft)
	Lower torque rod bolt (14 mm)	Use new bolt	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Lower torque rod bracket bolts	Use new bolts	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Upper torque rod bolts	Use new bolts	40 N·m (4.1 kgf·m, 30 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	40 N·m (4.1 kgf·m, 30 lbf·ft)
	Oil filter		12 N·m (1.2 kgf·m, 9 lbf·ft)
Intake manifold and exhaust system	Intake manifold bolts *2		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Intake manifold nuts *2		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Muffler self-locking nuts *1	Use new gasket and nuts	33 N·m (3.4 kgf·m, 24 lbf·ft)
	Exhaust pipe A self-locking nuts *1	Use new gasket and nuts	54 N·m (5.5 kgf·m, 40 lbf·ft)

Engine Cooling (1.5 L Engine)

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

Engine Cooling (2.4 L Engine)

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)
	Thermostat housing bolts		24 N·m (2.4 kgf·m, 18 lbf·ft)
	Thermostat housing nuts		24 N·m (2.4 kgf·m, 18 lbf·ft)

Fuel Emissions (1.5 L Engine)

Location	Item	Remark	Torque
Fuel and emissions	Accelerator pedal module		13 N·m (1.3 kgf·m, 10 lbf·ft)

Location	Item		Remark	Torque
	A/F sensor			45 N·m (4.6 kgf·m, 33 lbf·ft)
	ECT Sensor 1/2		Use new O-ring	12 N·m (1.2 kgf·m, 9 lbf·ft)
	Exhaust chamber cover			24 N·m (2.4 kgf·m, 18 lbf·ft)
	Fuel tank*2	Fuel tank bolt		24 N·m (2.4 kgf·m, 18 lbf·ft)
		Support strap bolts		38 N·m (3.9 kgf·m, 28 lbf·ft)
	Knock sensor			22 N·m (2.2 kgf·m, 16 lbf·ft)
	Secondary HO2S			45 N·m (4.6 kgf·m, 33 lbf·ft)
	Throttle body bolts*2		Use new gasket	12 N·m (1.2 kgf·m, 9 lbf·ft)
	Catalytic converter bracket bolts*2	Catalytic converter side		45 N·m (4.6 kgf·m, 33 lbf·ft)
		Engine side		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Catalytic converter upper bolts		Use new gaskets and nuts	45 N·m (4.6 kgf·m, 33 lbf·ft)
	Catalytic converter upper nuts		Use new gaskets and nuts	45 N·m (4.6 kgf·m, 33 lbf·ft)

Fuel Emissions (2.4 L Engine)

Location	Item	Remark	Torque
Fuel and emissions	Accelerator pedal module		13 N·m (1.3 kgf·m, 10 lbf·ft)

Location	Item		Remark	Torque
	A/F sensor			45 N·m (4.6 kgf·m, 33 lbf·ft)
	ECT Sensor 1/2		Use new O-ring	12 N·m (1.2 kgf·m, 9 lbf·ft)
	Exhaust chamber cover			22 N·m (2.2 kgf·m, 16 lbf·ft)
	Fuel tank*2	Fuel tank bolt		24 N·m (2.4 kgf·m, 18 lbf·ft)
		Support strap bolts		38 N·m (3.9 kgf·m, 28 lbf·ft)
	Knock sensor			22 N·m (2.2 kgf·m, 16 lbf·ft)
	Rocker arm oil pressure switch		Use new O-ring	22 N·m (2.2 kgf·m, 16 lbf·ft)
	Secondary HO2S			45 N·m (4.6 kgf·m, 33 lbf·ft)
	Throttle body bolts*2		Use new gasket	24 N·m (2.4 kgf·m, 18 lbf·ft)
	Catalytic converter bracket A bolts*2	Catalytic converter side		45 N·m (4.6 kgf·m, 33 lbf·ft)
		Engine side		45 N·m (4.6 kgf·m, 33 lbf·ft)
	Catalytic converter bracket B bolts*2	Catalytic converter side		65 N·m (6.6 kgf·m, 48 lbf·ft)
		Engine side		65 N·m (6.6 kgf·m, 48 lbf·ft)
	Under-floor TWC self-locking nuts		Use new gaskets and nuts	33 N·m (3.4 kgf·m, 24 lbf·ft)
	Catalytic converter upper bolts		Use new gaskets and nuts	32 N·m (3.3kgf·m, 24 lbf·ft)
	Catalytic converter upper nuts		Use new gaskets and nuts	32 N·m (3.3kgf·m, 24 lbf·ft)

CVT and CVT Differential

Location	Item	Remark	Torque
CVT	Transmission fluid check bolt	Use new sealing washer	20 N·m (2.0 kgf·m, 15 lbf·ft)
	Transmission fluid drain plug	Use new sealing washer	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Pressure inspection port sealing bolts (drive pulley, forward clutch, reverse brake)	Use new sealing washer	20 N·m (2.0 kgf·m, 15 lbf·ft)
	Drive plate bolts*2		74 N·m (7.5 kgf·m, 55 lbf·ft)
	Transmission assembly mounting bolts (transmission side)		64 N·m (6.5 kgf·m, 47 lbf·ft)
	Transmission assembly mounting bolts (engine side)		65 N·m (6.6 kgf·m, 48 lbf·ft)
	Transmission hanger bolt		44 N·m (4.5 kgf·m, 32 lbf·ft)
	CVTF warmer bolts		27 N·m (2.8 kgf·m, 20 lbf·ft)
	Shift cable bracket 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)
	CVT driven pulley pressure sensor	Use new sealing washer	20 N·m (2.0 kgf·m, 15 lbf·ft)

Rear Differential

Location	Item	Remark	Torque
Rear Differential	Oil filler plug	Use new sealing washer	47 N·m (4.8 kgf·m, 35 lbf·ft)

Location	Item	Remark	Torque
	Drain plug	Use new sealing washer	47 N·m (4.8 kgf·m, 35 lbf·ft)
	Rear differential front mount bolts	Use new bolts	55 N·m (5.6 kgf·m, 41 lbf·ft)
	Rear differential front mount upper bolts	Use new bolts	55 N·m (5.6 kgf·m, 41 lbf·ft)
	Rear differential rear mount bolt	Use new bolt	75 N·m (7.7 kgf·m, 55 lbf·ft)

Driveline/Axle

Location	Item	Remark	Torque
Driveline/axle	Driveshaft spindle nut (26 mm)	<ul style="list-style-type: none"> Use oil on the seating surface Use new nut 	328 N·m (33.4 kgf·m, 242 lbf·ft)
	Driveshaft spindle nut (22 mm)	<ul style="list-style-type: none"> Use oil on the seating surface Use new nut 	181 N·m (18.5 kgf·m, 133 lbf·ft)
	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)
	No. 1 propeller shaft bolts	Use new bolts	32 N·m (3.3 kgf·m, 24 lbf·ft)
	No. 2 propeller shaft bolts	Use new bolts	32 N·m (3.3 kgf·m, 24 lbf·ft)
	Center support bearing bolts	Use new bolts	39 N·m (4.0 kgf·m, 29 lbf·ft)
	Propeller shaft protector bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)

Steering

Location	Item	Remark	Torque
Steering	Steering wheel bolt	Use new bolt	49 N·m (5.0 kgf·m, 36 lbf·ft)
	Steering joint bolt		29 N·m (3.0 kgf·m, 21 lbf·ft)
	Steering column bolts*1		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Steering column nuts*1		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Steering gearbox bolts*1	Use new bolts	97 N·m (9.9 kgf·m, 72 lbf·ft)
	Steering gearbox stiffener bolts*1	Use new bolts	54 N·m (5.5 kgf·m, 40 lbf·ft)
	Tie-rod end ball joint nuts		54 N·m (5.5 kgf·m, 40 lbf·ft)
	Tie-rod end locknuts		44 N·m (4.5 kgf·m, 32 lbf·ft)

Suspension

Location	Item	Remark	Torque
Front suspension	Wheel nuts		108 N·m (11.0 kgf·m, 80 lbf·ft)
	Knuckle damper pinch bolts		93 N·m (9.5 kgf·m, 69 lbf·ft)
	Lower arm ball joint castle nut (to knuckle)	Use new nut	78–88 N·m (8.0–9.0 kgf·m, 58–65 lbf·ft)
	Lower arm ball joint nuts (to lower arm)*1	Use new nuts	64 N·m (6.5 kgf·m, 47 lbf·ft)
	Lower arm bolt	Use new bolt	122 N·m (12.4 kgf·m, 90 lbf·ft)
	Lower arm compliance bush bracket bolts (subframe side)	Use new bolts	105 N·m (10.7 kgf·m, 77 lbf·ft)
	Lower arm compliance bush bracket bolts (body side)	Use new bolts	69 N·m (7.0 kgf·m, 51 lbf·ft)
	Stabilizer bar bushing holders flange bolts	Use new bolts	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Stabilizer link flange nut (to damper)	Use new nut	64 N·m (6.5 kgf·m, 47 lbf·ft)
	Stabilizer link flange nut (to stabilizer bar)	Use new nut	32 N·m (3.3 kgf·m, 24 lbf·ft)
	Damper nuts	Use new nuts	75 N·m (7.6 kgf·m, 55 lbf·ft)
	Damper self-locking nut	Use new nut	60 N·m (6.1 kgf·m, 44 lbf·ft)
Rear suspension	Wheel nuts		108 N·m (11.0 kgf·m, 80 lbf·ft)
	Upper arm bolt (to subframe)	Use new bolt	76 N·m (7.7 kgf·m, 56 lbf·ft)
	Upper arm bolt/nut (to knuckle)	Use new bolt/nut	76 N·m (7.7 kgf·m, 56 lbf·ft)
	Lower arm A bolt/nut (to knuckle)	Use new bolt/nut	76 N·m (7.7 kgf·m, 56 lbf·ft)
	Lower arm A bolt	Use new bolt	76 N·m (7.7 kgf·m, 56 lbf·ft)
	Lower arm B bolt (to knuckle: 2WD)	Use new bolt	64 N·m (6.5 kgf·m, 47 lbf·ft)
	Lower arm B bolt (to knuckle: AWD)	Use new bolt	58 N·m (5.9 kgf·m, 43 lbf·ft)
	Lower arm B bolt/nut (to subframe)	Use new bolt/nut	93 N·m (9.5 kgf·m, 69 lbf·ft)

Location	Item	Remark	Torque
	Trailing arm bolts/nuts (to knuckle)*1	Use new bolts/nuts	118 N·m (12.0 kgf·m, 87 lbf·ft)
	Trailing arm bolts (to body)	Use new bolts	118 N·m (12.0 kgf·m, 87 lbf·ft)
	Stabilizer bar bushing holders flange bolts	Use new bolts	35 N·m (3.6 kgf·m, 26 lbf·ft)
	Stabilizer link flange nut (to stabilizer bar: 2WD)	Use new nut	32 N·m (3.3 kgf·m, 24 lbf·ft)
	Stabilizer link (to lower arm B: 2WD)	Use new bolt	40 N·m (4.1 kgf·m, 30 lbf·ft)
	Stabilizer link flange nut (to stabilizer bar: AWD)	Use new nut	32 N·m (3.3 kgf·m, 24 lbf·ft)
	Stabilizer link (to lower arm B: AWD)	Use new bolt	58 N·m (5.9 kgf·m, 43 lbf·ft)
	Damper bolt (to knuckle)	Use new bolt	78 N·m (8.0 kgf·m, 58 lbf·ft)
	Damper bolts (to body)	Use new bolts	40 N·m (4.1 kgf·m, 30 lbf·ft)
	Damper self-locking nut	Use new nut	30 N·m (3.1 kgf·m, 22 lbf·ft)

Brakes

Location	Item	Remark	Torque
Conventional brake	Front brake caliper bracket bolts		137 N·m (14.0 kgf·m, 101 lbf·ft)
	Front brake caliper bolts		50 N·m (5.1 kgf·m, 37 lbf·ft)
	Front brake hose banjo bolt	Use new washers	35 N·m (3.6 kgf·m, 26 lbf·ft)
	Rear brake caliper bracket bolts	Use new bolts	108 N·m (11.0 kgf·m, 80 lbf·ft)
	Rear brake caliper bolts		23 N·m (2.3 kgf·m, 17 lbf·ft)
	Rear brake hose banjo bolt	Use new washers	35 N·m (3.6 kgf·m, 26 lbf·ft)
	Master cylinder bolts	Use new bolts	22 N·m (2.2 kgf·m, 16 lbf·ft)

Location	Item	Remark	Torque
	Master cylinder brake line		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Electric brake booster/brake pedal nuts		12 N·m (1.2 kgf·m, 9 lbf·ft)
	Brake pedal bracket bolt		22 N·m (2.2 kgf·m, 16 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	Front subframe bolts	Use new bolts	103 N·m (10.5 kgf·m, 76 lbf·ft)
	Front subframe brace bolts		55 N·m (5.5 kgf·m, 40 lbf·ft)
	Rear subframe bolts	Use new bolts	95 N·m (9.7 kgf·m, 70 lbf·ft)
	Front Side Frame Dynamic Damper bolts		9.4 N·m (0.96 kgf·m, 6.9 lbf·ft)
	Under Cowl Panel nuts		9.4 N·m (0.96 kgf·m, 6.9 lbf·ft)
	Under Cowl Panel bolts (10 mm)		9.4 N·m (0.96 kgf·m, 6.9 lbf·ft)

Location	Item	Remark	Torque
	Under Cowl Panel bolts (12 mm)		22 N·m (2.2 kgf·m, 16 lbf·ft)
	Rear Carpet Trim Bracket bolts		9.4 N·m (0.96 kgf·m, 6.9 lbf·ft)

Heating, Ventilation, and Air Conditioning

Location	Item	Remark	Torque
A/C compressor	A/C compressor bolts		22 N·m (2.2 kgf·m, 16 lbf·ft)
	A/C compressor center bolt (1.5 L engine)	Use new bolt	17 N·m (1.7 kgf·m, 13 lbf·ft)
	A/C compressor center bolt (2.4 L engine)	Use new bolt	15 N·m (1.5 kgf·m, 11 lbf·ft)
	A/C compressor relief valve (1.5 L engine)	Use new O-ring	8.5 N·m (0.87 kgf·m, 6.3 lbf·ft)
	A/C compressor relief valve (2.4 L engine)	Use new O-ring	9.0 N·m (0.92 kgf·m, 6.6 lbf·ft)
Discharge hose	A/C pressure sensor	Use new O-ring	11 N·m (1.1 kgf·m, 8 lbf·ft)

Body Electrical

Location	Item	Remark	Torque
Wipers/washers	Windshield wiper arm nut		18 N·m (1.8 kgf·m, 13 lbf·ft)
	Windshield wiper link nut		31 N·m (3.2 kgf·m, 23 lbf·ft)
	Rear window wiper arm nut		9.4 N·m (0.96 kgf·m, 6.9 lbf·ft)

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