

SERVICE SPECIFICATIONS

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SQR484F ENGINE MANAGEMENT SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Coolant Temperature Sensor	11 - 16
Knock Sensor Fixing Bolt	20 ± 5
Engine Speed Sensor Fixing Bolt	8 ± 2
Camshaft Position Sensor Fixing Bolt	8 ± 0.5
VVT Control Valve Fixing Bolt	8 ± 2
Engine Control Module Bracket Fixing Nut	7 ± 1

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SQR484F ENGINE MECHANICAL

Specifications

SQR484F Engine Specifications

04

Item	Specification	
Engine Type	Vertical, in-line 4-cylinder, water-cooled, 4-stroke, DOHC, electronic controlled sequential multiport fuel injection, Variable Valve Timing (VVT)	
Engine Model	SQR484F	
Valve Number Per Cylinder	4	
Cylinder Diameter (mm)	83.5	
Piston Stroke (mm)	90	
Displacement (L)	1.971	
Compression Ratio	10:1	
Combustion Chamber Type	Pentroof type	
Fuel Supply Type	Electronic controlled sequential multiport fuel injection	
Ignition Type	Electrical control	
Ignition Sequence	1 - 3 - 4 - 2	
Idle Speed (r/min)	750 ± 50	
Rated Power (kW)	102	
Rated Power Speed (r/min)	5750	
Max. Torque (N·m)	182	
Max. Torque Speed (r/min)	4300 - 4500	
Max. Permissible Speed (r/min)	5800	
Min. Fuel Consumption Rate (g/kW·h)	250	
Oil and Fuel Consumption Percentage	≤ 0.15	
Fuel Octane Number (Not Less Than)	Unleaded gasoline, octane number 93	
Oil Octane Number	In Summer	SAE 10W-40 (SM grade or higher)
	In Winter	SAE 5W-40 (SM grade or higher)
Oil Capacity (L)	3.9 ± 0.5	
Crankshaft Rotation Direction	Counterclockwise (viewed from cross section of engine flywheel)	
Starting Type	Electrical starting	
Cooling Type	Forced circulation type antifreeze cooling	
Lubrication Type	Compound type (pressure, splash lubrication)	
Fuel Pressure (bar)	4	

Item	Specification	
Cylinder Compression Pressure (bar) (180 ~ 250) r/min	10 - 13.5	
Oil Pressure (kPa)	Low Idling Speed (700 ± 50 r/min)	Higher than 150 kPa (when oil temperature is 90°C)
	High Idle Speed (2000 r/min)	Higher than 360 kPa (when oil temperature is 90°C)
	High Speed (4000 r/min)	Higher than 470 kPa (when oil temperature is 90°C)
Thermostat Operation Temperature (°C)	Open Temperature	87 ± 2
	Full Open Temperature	102
Net Weight (kg)	148	
Boundary Dimension (Length × Width × Height) (mm)	641 × 613 × 644	
Starting Performance	With atmospheric temperature at -25°C, engine can start smoothly within 30 seconds without taking special measures. Starting test shows that starting can be performed 3 times consecutively. If it fails to start once, perform starting again after 2 minutes.	

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Engine Mechanical Specifications

Item			Specification
Camshaft	Cam Height (mm)	Intake Cam	37.65
		Exhaust Cam	37.06
	Camshaft Journal Diameter (mm)	Intake Cam	φ23.947 - φ23.960
		Exhaust Cam	φ23.947 - φ23.960
	Camshaft Axial Clearance (mm)	Intake Cam	0.15 - 0.20
		Exhaust Cam	0.15 - 0.20
Cylinder Head	Lower Surface Flatness (mm)		0.04
	Overall Height (mm)		139.83 ± 0.335
	Surface Grinding Limit		Grinding is not permitted

Item			Specification
Valve	Valve Head Margin Thickness (mm)	Intake Valve	0.9
		Exhaust Valve	0.7
	Valve Stem Diameter (mm)	Intake Valve	$\phi 5.98 \pm 0.008$
		Exhaust Valve	$\phi 5.96 \pm 0.008$
	Grommet Width (mm)	Intake Valve	2.263
		Exhaust Valve	2.828
	Clearance Between Valve Stem and Guide (mm)	Intake Valve	0.012 - 0.043
		Exhaust Valve	0.032 - 0.063
	Grommet Cone Angle (°)	Intake Valve	90 - 90.5
		Exhaust Valve	90 - 90.5
Height (mm)	Intake Valve	107.998	
	Exhaust Valve	106.318	
Valve Spring	Free Height		47.7
	Operating Preload/Operating Height		260 ± 11 N/41 mm
Valve Guide	Valve Guide Length (mm)		38 ± 0.25
	Inner Diameter (mm)		$\phi 6 - \phi 6.015$
	Outer Diameter (mm)		$\phi 11.040 - \phi 11.051$
	Depression Depth (mm)		16 ± 0.3
	Valve Stem Protrusion Amount (mm)		31.497 - 31.515
	Piston		Piston Skirt Diameter (mm)
Piston Ring	Side Clearance (mm)	First Ring	0.04 - 0.08
		Second Ring	0.025 - 0.070
	End Gap (mm)	First Ring	0.2 - 0.4
		Second Ring	0.4 - 0.6
	Height (mm)	First Ring	$1.2^{+0.01}_{-0.05}$
		Second Ring	$1.5^{+0.006}_{-0.050}$
		Oil Ring	2.5
Piston Ring Groove	Height (mm)	First Ring	$1.2^{+0.06}_{+0.05}$
		Second Ring	$1.5^{+0.04}_{+0.02}$
		Oil Ring	$25^{+0.05}_{+0.01}$
Piston Pin	Diameter (mm)		$\phi 21^0_{-0.006}$
	Length (mm)		$60^0_{-0.5}$
	Piston Pin Hole Diameter (mm)		$\phi 21^{+0.010}_{+0.006}$

Item			Specification
Crankshaft	Axial Clearance (mm)		0.070 - 0.265
	Radial Clearance (mm)		0.021 - 0.059
	Crankshaft Main Journal	Diameter (mm)	$\phi 54^{+0}_{-0.019}$
		Coaxially (mm)	0.04
		Cylindricity (mm)	0.007
		Roundness (mm)	0.004
	Connecting Rod Journal	Diameter (mm)	$\phi 47.9^{+0}_{-0.016}$
		Parallelism to Main Journal	0.008
Cylinder Block	Overall Height (mm)		293
	Bore Roundness (mm)		0.008
	Cylindricity (mm)		0.01
	Upper Surface Flatness (mm)		0.04
	Surface Grinding Limit		Grinding is not permitted
Connecting Rod	Connecting Rod Big End Radial Clearance (mm)		0.021 - 0.056
	Big End Axial Clearance (mm)		0.15 - 0.40

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Engine Torque Specifications

Description	Torque (N·m)
Accessory Drive Belt Upper Idler Pulley Assembly Fixing Bolt	40 + 5
Accessory Drive Belt Lower Idler Pulley Assembly Fixing Bolt	40 + 5
Accessory Drive Belt Tensioner Assembly Fixing Bolt	40 + 5
Timing Belt Front Cover Upper Body Fixing Bolt	7
Crankshaft Pulley Fixing Bolt	1st step: 25 ± 5 2nd step: 30° ± 5°
Timing Belt Front Cover Lower Body Fixing Bolt	7
Plug for Installing Crankshaft Timing Tool on Bottom of Engine Block	40 + 5
Timing Belt Tensioner Fixing Bolt	20 + 5
Exhaust Phaser Cover	30
Exhaust Camshaft Phaser Assembly Fixing Bolt	120 ± 5
Intake Phaser Cover	30
Intake Camshaft Phaser Assembly Fixing Bolt	120 ± 5
Crankshaft Timing Pulley Fixing Bolt	1st step: 130 ± 10 2nd step: 65° ± 5°
Flywheel Fixing Bolt	1st step: 35 ± 5 2nd step: 45° ± 5°



Description	Torque (N·m)
Engine Wire Harness Assembly Fixing Bolt	7 ± 1
Intake Camshaft Position Sensor Fixing Bolt	8 ± 0.5
Exhaust Camshaft Position Sensor Fixing Bolt	8 ± 0.5
Cylinder Head Cover Fixing Bolt	$8 + 3$
Timing Belt Idler Pulley Fixing Bolt	$40 + 5$
Timing Belt Rear Cover Fixing Screw	$5 + 2$
Camshaft First Bearing Cap Fixing Bolt	$8 + 3$
Camshaft Bearing Cap Fixing Bolt	$8 + 3$
Cylinder Head Fixing Bolt	1st step: 45 ± 5 2nd step: $180^\circ \pm 10^\circ$
Coupling Bolt Between Rear Mounting Cushion Assembly and Front Sub Frame Welding Assembly (for MT Model)	70 ± 5
Rear Mounting Cushion Assembly Fixing Nut (for MT Model)	70 ± 5
Locking Nut for Through Bolt Between Rear Mounting Bracket and Rear Mounting Cushion Assembly (for MT Model)	70 ± 5
Coupling Bolt Between Rear Mounting Bracket and Transmission Case (for MT Model)	55 ± 5
Coupling Bolt Between Rear Mounting Cushion Assembly and Front Sub Frame Welding Assembly (for CVT Model)	70 ± 5
Locking Nut for Through Bolt Between Rear Mounting Bracket and Rear Mounting Cushion Assembly (for CVT Model)	70 ± 5
Coupling Bolt Between Rear Mounting Bracket and Transmission Case (for CVT Model)	80 ± 6
Coupling Bolt Between Front Mounting Cushion Assembly and Side Rail Welding Assembly	70 ± 5
Locking Nut for Through Bolt Between Front Mounting Cushion Assembly and Front Mounting Bracket	70 ± 5
Coupling Bolt Between Front Mounting Bracket and Transmission Case	55 ± 5
Locking Nut for Through Bolt Between Left Mounting Cushion Assembly and Left Mounting Bracket (for MT Model)	105 ± 10
Coupling Bolt Between Left Mounting Cushion Assembly and Body (for MT Model)	90 ± 5
Fixing Nut Between Left Mounting Bracket and Transmission Case (for MT Model)	80 ± 6
Left Mounting Cushion Assembly Locking Nut (for CVT Model)	80 ± 6

Description	Torque (N·m)
Coupling Bolt Between Left Mounting Cushion Assembly and Body (for CVT Model)	70 ± 5
Fixing Nut Between Left Mounting Bracket and Transmission Case (for CVT Model)	80 ± 6
Coupling Bolt Between Left Mounting Bracket and Transmission Case (for CVT Model)	80 ± 6
Expansion Tank Fixing Bolt	7 ± 1
Coupling Bolt and Nut Between Right Mounting Cushion Assembly and Right Mounting Bracket	80 ± 6
Coupling Bolt Between Right Mounting Cushion Assembly and Body	70 ± 5
Right Mounting Cushion Assembly Fixing Bolt	55 ± 5
Left Coupling Bolt Between Precatalytic Converter Assembly Bracket and Engine Block	23 ± 2
Right Coupling Bolt Between Precatalytic Converter Assembly Bracket and Engine Block	50 ± 5
Coupling Nut Between Shift Cable and Shift Arm (for CVT Model)	18 ± 2
Coupling Plug Between Pipe II Assembly and Clutch Release Cylinder	16 ± 2
Bracket II Fixing Bolt	15 ± 2
Bracket I Fixing Bolt	15 ± 2
Transmission Ground Wire Fixing Bolt	15 ± 2
High Pressure Pipe Hollow Bolt	45 ± 5
Fixing Bolt Between A/C High/Low Pressure Line and Compressor Assembly	25 ± 2.5
Battery Wire Harness Fixing Nut	7 ± 1
Knock Sensor Inner Torx Fixing Bolt	20 ± 5
Small Circulation Metal Tube Fixing Bolt	20 ± 5
Engine Accessory Bracket Fixing Bolt	40 + 5
Power Steering Pump Bracket Fixing Bolt	30 + 5
Oil Cooler Bracket Fixing Bolt	40 + 5
Trim Cover Rear Right Bracket Fixing Bolt	7 ± 1
Oil Deflector Assembly Fixing Bolt	8 ± 3
Connecting Rod Bearing Cap Fixing Bolt	1st step: 25 ± 3 2nd step: 90° ± 5°
Crankshaft Frame Fixing Bolt	20 + 3
Main Bearing Cap Fixing Bolt	1st step: 45 ± 5 2nd step: 180° ± 10°

Lubrication Areas during Engine Assembly

Lubrication Area	Note
Piston Pin	SM10W-40
Piston Ring	SM10W-40
Piston	SM10W-40
Cylinder Bore	SM10W-40
Main Bearing Shell and Crankshaft Main Journal	SM10W-40
Crankshaft Thrust Washer (Oil Groove Side)	SM10W-40
Connecting Rod Bearing Cap Bolt Head and Thread Part	SM10W-40
Connecting Rod Bearing Shell and Crankshaft Connecting Rod Journal	SM10W-40
Main Bearing Cap Bolt Head	SM10W-40
Crankshaft Front Oil Seal Lip and Crankshaft Oil Seal Journal	SM10W-40
Crankshaft Rear Oil Seal Lip and Crankshaft Oil Seal Journal	SM10W-40
Valve Guide Hole	SM10W-40
Valve Stem	SM10W-40
Camshaft Cam and Journal	SM10W-40
Hydraulic Lifter	SM10W-40
Hydraulic Lifter Hole, Valve Rocker Arm	SM10W-40
Valve Small End, Valve Rocker Arm Head	SM10W-40
Valve Retainer Hole (Cylinder Head Assembly)	SM10W-40
Valve Guide or Guide Bottom Hole (Cylinder Head)	SM10W-40
Camshaft Oil Seal Lip and Camshaft Journal	SM10W-40
Oil Filter Gasket Surface	SM10W-40

All engine lubricants should be 5W-40 (for winter)/10W-40 (for summer) SM grade or higher.

Areas with Seal Gum Applied during Engine Assembly

Area with Seal Gum Applied	Seal Gum Type
Cylinder Block Bowl Plug	Loctite 747
Cylinder Block Main Oil Passage Plug	Loctite 5910
Joint Surface Between Crankshaft Frame and Cylinder Block	Loctite 518
Crankshaft Frame and Oil Pan	Loctite 5910
Cylinder Head Bowl Plug	Loctite 11747
Cylinder Head Oil Passage Plug	Loctite 577
First Bearing Cap Bottom Plate	Loctite 574
Coolant Temperature Sensor	Loctite 243
Oil Pressure Sensor	Loctite 577
Camshaft Variable Valve Timing Control Valve	Loctite 243
Oil Deflector Bolt	Loctite 243
Oil Pump Mounting Bolt	Loctite 5910
Timing Gear Rear Cover Fixing Screw	Loctite 243

SQR484F FUEL SUPPLY SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Fuel Filter Ground Wire Fixing Nut	7 ± 1
Fuel Filter Bracket Fixing Screw	3.5 ± 0.5
Fuel Tank Pressure Cap	75 ± 5
Coupling Bolt Between Filler Tube Assembly and Body	22 ± 2
Filler Tube Assembly Fixing Nut	7 ± 1
Fuel Tank Fixing Strap Fixing Bolt	25 ± 3
Fuel Level Sensor Fixing Screw	5 ± 1
Fuel Rail Fixing Bolt	$8 + 3$
Worm Clamp	3.5 ± 0.5

Fuel Pressure Specifications

SQR484F	Pressure (kPa)
Fuel Pressure on Fuel Rail - Key (ON)	400
Fuel Pressure on Fuel Rail - Engine Idling	400
Fuel Pressure on Fuel Rail - Key (LOCK)	400

SQR484F EMISSION CONTROL SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Activated Charcoal Canister Solenoid Valve Bracket Fixing Bolt	7 ± 1
Coupling Bolt Between Activated Charcoal Canister Assembly and Body	7 ± 1
Exhaust Manifold Heat Insulator Fixing Bolt	23 ± 2
Upstream Oxygen Sensor	40 - 60
Downstream Oxygen Sensor	40 - 60

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SQR484F INTAKE SYSTEM

Specifications

Torque Specifications

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Description	Torque (N·m)
Trim Cover Front Bracket Fixing Bolt	7 ± 1
Trim Cover Rear Right Bracket Fixing Bolt	7 ± 1
Trim Cover Rear Left Bracket Fixing Bolt	7 ± 1
Coupling Screw between Air Filter Upper Housing and Lower Housing	1.3 ± 0.2
Air Induction Pipe Assembly Fixing Bolt	7 ± 1
Air Filter Assembly Left Fixing Bolt	7 ± 1
Air Filter Assembly Right Fixing Bolt	7 ± 1
Hot Wire Air Flow Meter Fixing Bolt	4.5 ± 0.5
Air Filter Assembly Bracket Fixing Bolt	7 ± 1
Electronic Throttle Assembly Fixing Bolt	8 ± 3
Intake Manifold Bracket Fixing Bolt	18 ± 2
Oil Dipstick Fixing Bolt	8 ± 3
Engine Wire Harness Fixing Bolt	8 ± 3
Intake Manifold Assembly Fixing Nut	8 ± 3
Electronic Accelerator Pedal Fixing Bolt	10 ± 2
Worm Clamp	5 ± 0.5

SQR484F EXHAUST SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Exhaust Manifold Heat Insulator Fixing Bolt	23 ± 2
Coupling Nut Between Exhaust Manifold Assembly and Precatalytic Converter Assembly	50 ± 5
Exhaust Manifold Assembly Fixing Nut	23 ± 2
Coupling Nut Between Precatalytic Converter Upper Body Assembly and Precatalytic Converter Lower Body Assembly	50 ± 5
Left Coupling Bolt Between Precatalytic Converter Assembly Bracket and Cylinder Block	23 ± 2
Right Coupling Bolt Between Precatalytic Converter Assembly Bracket and Cylinder Block	50 ± 5
Coupling Nut Between Precatalytic Converter Lower Body Assembly and Main Catalytic Converter Assembly	50 ± 5
Upstream Oxygen Sensor	40 - 60
Downstream Oxygen Sensor	40 - 60
Coupling Nut Between Main Catalytic Converter Assembly and Center Pipe Assembly	50 ± 5
Coupling Spring Bolt Between Center Pipe Assembly and Muffler Assembly	50 ± 5
Muffler Assembly Left Hanger Block III Assembly Fixing Bolt	50 ± 5
Muffler Assembly Right Hanger Block III Assembly Fixing Bolt	50 ± 5

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SQR484F COOLING SYSTEM

Specifications

Torque Specifications

04

Description	Torque (N·m)
Coupling Bolt Between Air Induction Pipe Assembly and Tank Upper Crossmember Assembly	7 ± 1
Radiator Left Tension Plate Fixing Bolt	7 ± 1
Radiator Right Tension Plate Fixing Bolt	7 ± 1
Tank Upper Crossmember Assembly Fixing Bolt	7 ± 1
Expansion Tank Fixing Bolt	7 ± 1
Activated Charcoal Canister Solenoid Valve Bracket Fixing Bolt	7 ± 1
Thermostat Housing Fixing Bolt	8 ± 3
Engine Ground Wire Fixing Bolt	7 ± 1
Engine Speed Sensor Bracket Fixing Bolt	7 ± 1
Thermostat Seat Fixing Bolt	$8 + 3$
Coolant Temperature Sensor	11 - 16
Fan Controller Fixing Bolt	7 ± 1.5
Cooling Fan Assembly Fixing Bolt	7 ± 1
Timing Belt Idler Pulley Fixing Bolt	$40 + 5$
Water Pump Assembly Fixing Bolt	$8 + 3$

Coolant Capacity

Item	Capacity (L)
Cooling System	7.5

Coolant Concentration

G11 Additive	Soft Water
50%	50%

Coolant Freezing Point

Item	Freezing Point Value (°C)
Coolant	-35

Cooling System Test Pressure

Item	System Pressure (bar)
Cooling System (Test Pressure)	1.3 ± 0.2

SQR484F LUBRICATION SYSTEM

Specifications

System Pressures

Condition	Pressure (bar)
Idling Speed (750 ± 50 r/min)	Above 1.5 (oil temperature 90°C)
High Idling Speed (2000 r/min)	Above 3.6 (oil temperature 90°C)
High Speed (4000 r/min)	Above 4.7 (oil temperature 90°C)

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Oil Specifications

Engine Type	SQR484F
Oil Capacity (L)	4 ± 0.5
Oil Specifications	Summer: SAE 10W - 40 (SM grade or higher) Winter: SAE 5W - 40 (SM grade or higher)

Torque Specifications

Description	Torque (N·m)
Drain Plug	35 ± 3
Oil Filter	25 ± 3
Coupling Bolt Between Oil Pan and Transmission Case	45 ± 5
Fixing Bolt of Baffle Plate Between Oil Pan and Transmission Case	45 ± 5
Oil Pressure Switch	20 ± 2
Oil Pan Fixing Bolt	11 ± 1
Oil Pan Baffle Plate Fixing Bolt	8 + 3
Oil Strainer Bracket Fixing Bolt	17 - 23
Oil Strainer Bracket Fixing Nut	17 - 23
Coupling Bolt Between Oil Strainer and Oil Pump	17 - 23
Oil Pump Fixing Bolt	8 - 11

SQR484F IGNITION SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Spark Plug	30 ± 3
Ignition Coil Fixing Bolt	8 + 3

Spark Plug Specifications

Engine Type	SQR484F
Spark Plug Type	FR7DTC
Spark Plug Gap (mm)	0.8 - 0.9

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SQR484F STARTING SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Starter Power Cable Nut	13 ± 1
Starter Fixing Bolt	35 ± 5
ignition Starting Switch Fixing Screw	13 ± 2

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SQR484F CHARGING SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Battery Pressure Plate Fixing Nut	7 ± 1
Coupling Bolt Between Battery Pressure Plate and Tank Upper Crossmember	7 ± 1
Coupling Bolt Between Battery Tray and Air Filter Bracket	7 ± 1.5
Battery Tray Fixing Bolt	20 ± 2
Battery Tray Bracket Fixing Bolt	20 ± 2
Alternator Output Cable Fixing Nut	18 - 22
Alternator Fixing Bolt	$20 + 5$

Battery Specification

Engine Type	Battery Type	Specification
SQR484F	6-QW-70QR	12 V, 70 Ah, CCA (SAE) 560 A

QR525MHE TRANSMISSION

Specifications

Torque Specifications

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Description	Torque (N·m)
Coupling Bolt Between Clutch Case and Transmission Case	25 ± 2
Reverse Idler Gear Shaft Locating Bolt	40 ± 4
Coupling Bolt Between Gear Shift Mechanism and Transmission Case	25 ± 2
Gear Shift Mechanism Locating Bolt	35 ± 5.25
Back-up Light Switch	20 ± 2
Shift Shaft Locating Bolt	35 ± 5.25
Gear Shift Control Mechanism Fixing Bolt	23 ± 2
Drain/Retaining Plug	40 ± 6
Shift Arm Bracket Bolt	25 ± 2
Reverse Lock Mechanism Fixing Bolt	18 ± 2
Reverse Gear Fork Fixing Bolt	25 ± 2
Transmission Lower Coupling Bolt	50 ± 5
Transmission Upper Coupling Bolt	60 ± 5
Engine Side Coupling Bolt	60 ± 5

Transmission Gear Ratio Table

Gear Ratio Type	QR525MHE
	Gear Ratio
1st	3.583
2nd	2.053
3rd	1.379
4th	1.03
5th	0.821
Reverse	3.417
Final Drive	4.313
Speedometer	0.806

QR019CHB CVT

Specifications

Torque Specifications

Description	Torque (N·m)
Transmission Drain Bolt	29 - 34
Primary Shaft Speed Sensor Fixing Bolt	10 - 12
Secondary Shaft Speed Sensor Fixing Bolt	10 - 12
Turbine Speed Sensor Fixing Bolt	10 - 12
Primary Shaft Pressure Sensor	15 - 22
Secondary Shaft Pressure Sensor	15 - 22
Gear Shift Cable to Arm Nut	16 - 20
Valve Body Case Fixing Bolt	10 - 12
Transmission Range Sensor Fixing Bolt	10 - 12
Gear Shift Arm Fixing Nut	18 - 25
Gear Shift Control Mechanism Fixing Bolt	18 - 22
Gear Shift Cable Dust Boot Fixing Bolt	8 - 10
TCU Fixing Bolt	6 - 8
Transmission Ground Wire Harness Fixing Bolt	18 - 22
Engine to Upper Part of Transmission Bolt	75 - 85
Dust Baffle Fixing Bolt	45 - 55
Flywheel to Torque Converter Bolt	50 - 60
Transmission to Engine Front Bolt	75 - 85
Transmission to Engine Bolt	75 - 85
Valve Body Fixing Bolt	8 - 10
Transmission Fluid Cooler Fixing Bolt	22 - 28

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General Specifications

Item	Parameter
Model	QR019CHB
Type	CVT
Central Distance (mm)	204
Maximum Input Torque (N·m)	190
Final Drive Ratio	5.141
Pulley Speed Ratio Scope	0.44 - 2.39
Solenoid Quantity	4
Gear Shift Positions	P, R, N, D, L, M (manual mode)



Item	Parameter
Fluid Type	SP - III
Transmission Fluid Capacity (L)	8.0 ± 0.2

CLUTCH

Specifications

Torque Specifications

Description	Torque (N·m)
Clutch Pedal Fixing Nut	25 ± 2
Pipe Assembly II Joint	16 ± 2
Clutch Release Cylinder Fixing Bolt	22 ± 2
Clutch Pressure Plate	25 ± 2

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Clutch Driven Disc Specifications

Measurement Item	Specification (mm)
Clutch Driven Disc Standard Thickness	7.6 ± 0.2
Minimum Rivet Depth	1.2

DRIVE SHAFT

Specifications

Torque Specifications

Description	Torque (N·m)
Drive Shaft Fixing Nut	300 ± 20
Coupling Nut Between Steering Knuckle and Control Arm Ball Pin	180 ± 10
Coupling Bolt Between Front Left Wheel Speed Sensor and Front Left Steering Knuckle Assembly	10 ± 1

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DIFFERENTIAL

Specifications

Torque Specification

Description	Torque (N·m)
Final Drive Driven Gear Bolt	111 - 118

Clearance Specification

Description	Acceptable Range (mm)
Clearance Between Differential Case and Planetary Gear	0.025 - 0.150

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AXLE

Specifications

Torque Specifications

04

Description	Torque (N·m)
Wheel Mounting Bolt	110 ± 10
Front Drive Shaft Assembly Locking Nut	300 ± 20
Coupling Bolt Between Front Hub Assembly and Front Steering Knuckle Assembly	70 - 75
Coupling Bolt Between Front Wheel Speed Sensor and Front Steering Knuckle Assembly	10 ± 1
Locking Nut Between Steering Tie Rod Assembly Ball Pin and Front Steering Knuckle Assembly	47 ± 3
Coupling Nut Between Front Control Arm Assembly Ball Pin and Front Steering Knuckle Assembly	120 ± 12
Coupling Bolt Between Front Shock Absorber Assembly and Front Steering Knuckle Assembly	180 ± 10
Coupling Nut Between Front Shock Absorber Assembly and Front Steering Knuckle Assembly	180 ± 10
Coupling Bolt Between Engine Lower Protector Assembly and Side Rail Welding Assembly	10 ± 1
Coupling Bolt Between Rear Mounting Cushion Assembly and Rear Mounting Bracket	70 ± 5
Coupling Nut Between Rear Mounting Cushion Assembly and Rear Mounting Bracket	70 ± 5
Coupling Bolt Between Front Mounting Cushion Assembly and Front Mounting Bracket	70 ± 5
Coupling Nut Between Front Mounting Cushion Assembly and Front Mounting Bracket	70 ± 5
Coupling Bolt Between Side Rail Welding Assembly and Body	80 ± 6
Coupling Bolt Between Side Rail Welding Assembly and Front Mounting Cushion Assembly	70 ± 5
Coupling Bolt Between Side Rail Welding Assembly and Rear Mounting Cushion Assembly	70 ± 5
Coupling Nut Between Side Rail Welding Assembly and Rear Mounting Cushion Assembly	70 ± 5
Coupling Bolt Between Front Stabilizer Bar and Front Sub Frame Welding Assembly	20 ± 3
Coupling Bolt Between Front Sub Frame Welding Assembly and Steering Gear Assembly	120 ± 10
Coupling Bolt Between Upper Part of Front Sub Frame Welding Assembly and Body	180 ± 10

Description	Torque (N·m)
Coupling Bolt Between Rear Part of Front Sub Frame Welding Assembly and Body	180 ± 10
Coupling Nut Between Rear Hub Bearing Unit and Rear Brake Bottom Board Assembly	68 ± 5
Coupling Bolt Between Rear Suspension Upper Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Nut Between Rear Suspension Upper Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Bolt Between Rear Suspension Lower Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Nut Between Rear Suspension Lower Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Bolt Between Rear Sub Frame Assembly and Body	120 ± 10
Coupling Nut Between Rear Sub Frame Assembly and Body	120 ± 10

SUSPENSION

Specifications

Torque Specifications

04

Description	Torque (N·m)
Coupling Nut Between Front Stabilizer Link Assembly and Front Shock Absorber Assembly	45 ± 5
Coupling Bolt Between Front Shock Absorber Assembly and Front Steering Knuckle Assembly	180 ± 10
Coupling Nut Between Front Shock Absorber Assembly and Front Steering Knuckle Assembly	180 ± 10
Coupling Nut Between Front Shock Absorber Assembly and Body	60 ± 6
Front Shock Absorber Assembly Locking Nut	82 ± 5
Coupling Nut Between Front Control Arm Assembly Ball Pin and Front Steering Knuckle Assembly	120 ± 12
Coupling Bolt Between Front Part of Front Control Arm Assembly and Front Sub Frame Welding Assembly	180 ± 10
Coupling Bolt Between Rear Part of Front Control Arm Assembly and Front Sub Frame Welding Assembly	180 ± 10
Coupling Nut Between Front Control Arm Ball Pin Assembly and Front Control Arm Assembly	150 ± 10
Coupling Bolt Between Front Control Arm Ball Pin Assembly and Front Control Arm Assembly	150 ± 10
Coupling Nut Between Front Stabilizer Bar Assembly and Front Stabilizer Link Assembly	45 ± 5
Coupling Bolt Between Side Rail Welding Assembly and Rear Mounting Cushion Assembly	70 ± 5
Coupling Nut Between Side Rail Welding Assembly and Rear Mounting Cushion Assembly	70 ± 5
Coupling Bolt Between Front Sub Frame Welding Assembly and Steering Gear Assembly	120 ± 10
Coupling Bolt Between Upper Part of Front Sub Frame Welding Assembly and Body	180 ± 10
Coupling Bolt Between Rear Part of Front Sub Frame Welding Assembly and Body	180 ± 10
Coupling Bolt Between Front Stabilizer Bar Assembly and Front Sub Frame Welding Assembly	25 ± 3
Coupling Bolt Between Lower Part of Rear Shock Absorber Assembly and Rear Trailing Arm Assembly	45 ± 5
Coupling Nut Between Upper Part of Rear Shock Absorber Assembly and Body	45 ± 5

Description	Torque (N·m)
Coupling Nut Between Rear Stabilizer Link Assembly and Rear Suspension Lower Swing Arm Assembly	45 ± 5
Coupling Bolt Between Rear Shock Absorber Assembly Fixing Bracket and Rear Trailing Arm Assembly	80 ± 8
Coupling Bolt Between Rear Suspension Lower Swing Arm Assembly and Rear Trailing Arm Assembly	120 ± 10
Coupling Nut Between Rear Suspension Lower Swing Arm Assembly and Rear Trailing Arm Assembly	120 ± 10
Coupling Bolt Between Rear Suspension Upper Swing Arm Assembly and Rear Trailing Arm Assembly	120 ± 10
Coupling Nut Between Rear Suspension Upper Swing Arm Assembly and Rear Trailing Arm Assembly	120 ± 10
Coupling Bolt Between Rear Rubber Cushion Assembly and Body	25 ± 5
Coupling Bolt Between Rear Suspension Upper Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Nut Between Rear Suspension Upper Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Bolt Between Rear Suspension Lower Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Nut Between Rear Suspension Lower Swing Arm Assembly and Rear Sub Frame Assembly	120 ± 10
Coupling Bolt Between Rear Wheel Speed Sensor Fixing Bracket and Rear Trailing Arm Assembly	23 ± 2
Coupling Bolt Between Parking Brake Cable Fixing Bracket and Rear Trailing Arm Assembly	23 ± 2
Coupling Bolt Between Rear Brake Line Fixing Bracket and Rear Trailing Arm Assembly	23 ± 2
Coupling Bolt Between Rear Trailing Arm Assembly and Mounting Bracket	120 ± 10
Coupling Nut Between Rear Trailing Arm Assembly and Mounting Bracket	120 ± 10
Coupling Nut Between Rear Stabilizer Link Assembly and Rear Stabilizer Bar Assembly	45 ± 5
Rear Brake Line Fixing Plug	16 ± 2
Coupling Bolt Between Rear Stabilizer Bar Assembly and Body	25 ± 3

Description	Torque (N·m)
Steering Tie Rod Locking Nut	55 ± 5
Steering Wheel Locking Nut	35 ± 5

TIRE AND WHEEL

Specifications

Torque Specification

Description	Torque (N·m)
Wheel Mounting Bolt	110 ± 10

Tire Type

04

Description	Parameter
Tire Type	225/65 R17 102H

Rim Type

Description	Parameter
Rim Type	17 × 7J

Tire Pressure Specifications of Cold Tire

Description	Pressure (kPa)
Front Tire (Unloaded)	230
Rear Tire (Unloaded)	230
Spare Tire	250

BRAKE CONTROL SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Wheel Mounting Bolt	110 ± 10
Brake Pipe Coupling Plug	16 ± 2
ABS Control Module Assembly Mounting Bracket Fixing Bolt	23 ± 2
ABS Control Module Assembly Mounting Bracket Fixing Nut	23 ± 2
ABS Control Module Assembly Bottom Mounting Nut	8 ± 2
Front Wheel Speed Sensor Fixing Bolt	10 ± 1
Rear Wheel Speed Sensor Fixing Bolt	10 ± 1

04

BRAKE

Specifications

Torque Specifications

Description	Torque (N·m)
Wheel Mounting Bolt	110 ± 10
Coupling Nut Between Brake Fluid Reservoir Assembly and Body	9 ± 1
Coupling Plug Between Brake Master Cylinder Assembly and Brake Pipe	16 ± 2
Coupling Nut Between Brake Master Cylinder Assembly and Vacuum Booster Assembly	21 - 25
Coupling Bolt Between Brake Fluid Reservoir Assembly and Brake Master Cylinder Assembly	3 - 5
Coupling Nut Between Vacuum Booster Assembly and Brake Pedal Assembly	25 ± 3
Coupling Nut Between Brake Pedal Assembly and Body	25 ± 3
Coupling Bolt Between Front Brake Caliper Assembly and Front Brake Hose Assembly	27 ± 2
Coupling Bolt Between Front Brake Caliper Assembly and Front Steering Knuckle Assembly	100 ± 10
Front Brake Disc Positioning Screw	10 ± 1
Front Brake Caliper Bleeder Plug	9 - 11
Locating Bolt Between Front Brake Caliper Fixing Bracket and Front Brake Cylinder Assembly	25 ± 3
Coupling Plug Between Front Brake Hose Assembly and Front Brake Pipe	16 ± 2
Coupling Bolt Between Rear Brake Caliper Assembly and Rear Brake Hose Assembly	20 ± 2
Coupling Bolt Between Rear Brake Caliper Assembly and Rear Brake Bottom Board Assembly	100 ± 10
Rear Brake Disc Positioning Screw	10 ± 1
Rear Brake Caliper Bleeder Plug	9 - 11
Locating Bolt Between Rear Brake Caliper Fixing Bracket and Rear Brake Cylinder Assembly	25 ± 3
Coupling Plug Between Rear Brake Hose Assembly and Brake Pipe	16 ± 2

Front Disc Brake

Description	Standard Thickness (mm)	Minimum Thickness (mm)	Maximum Runout (mm)
Front Brake Disc	25	23	0.06
Front Brake Lining	9.2	2	-

Rear DIH (Drum-in-hat)

Description	Standard Thickness (mm)	Minimum Thickness (mm)	Maximum Runout (mm)
Rear Brake Disc	10	8	0.06
Rear Brake Lining	8.2	2	-

PARKING BRAKE

Specifications

Torque Specifications

Description	Tightening Torque (N·m)
Wheel Mounting Bolt	110 ± 10
Coupling Bolt Between Parking Brake Control Mechanism Assembly and Body	23 ± 2
Coupling Bolt Between Parking Brake Rear Cable Assembly Fixing Bracket and Body	23 ± 2
Coupling Bolt Between Parking Brake Rear Cable Assembly Fixing Bracket and Rear Trailing Arm Assembly	23 ± 2
Coupling Bolt Between Parking Brake Rear Cable Assembly Fixing Bracket and Rear Brake Bottom Board Assembly	23 ± 2
Coupling Bolt Between Rear Brake Line Fixing Bracket and Rear Brake Bottom Board Assembly	23 ± 2

04

Rear DIH (Drum-in-hat)

Description	Standard Thickness (mm)	Minimum Thickness (mm)
Rear Brake Shoe Lining	3	1

Description	Standard Inner Diameter (mm)	Maximum Inner Diameter (mm)
Rear Brake Disc	186	188

STEERING COLUMN

Specifications

Torque Specifications

04

Description	Tightening Torque (N·m)
Steering Wheel Assembly Fixing Nut	35 ± 3
Combination Switch Cover Fixing Screw	2 ± 0.5
Steering Column Assembly Upper Bracket Fixing Nut	25 ± 3
Steering Column Assembly Lower Bracket Fixing Bolt	25 ± 3
Coupling Bolt Between Steering Column with Intermediate Shaft Assembly and Steering Gear Input Shaft	30 ± 3
Coupling Bolt Between Electronic Power Steering Column with Intermediate Shaft Assembly and Steering Gear Input Shaft	60 ± 5
Ignition Starting Switch Fixing Screw	15 ± 2
Steering Boot Fixing Nut	10 ± 1
Coupling Bolt Between Electronic Power Steering Column and Intermediate Shaft	50

Data Specifications

Description	Standard Value
Steering Wheel Free Play (Rotation Angle)	$\leq 15^\circ$
Steering Wheel Centering/Returnability (Rotation Angle)	$> 70^\circ$

HYDRAULIC ASSIST STEERING

Specifications

Torque Specifications

Description	Torque (N·m)
Steering Gear Heat Insulation Cover Fixing Bolt	9 ± 1
High Pressure Fluid Pipe Bracket Bolt 1	9 ± 1
High Pressure Fluid Pipe Bracket Bolt 2	9 ± 1
Clamping Bolt Between High Pressure Fluid Pipe and Steering Gear Assembly	30 ± 3
Clamping Bolt Between Fluid Return Pipe and Steering Gear Assembly	30 ± 3
Fluid Return Pipe Bracket Bolt 1	9 ± 1
Fluid Return Pipe Bracket Nut 2	7 ± 1
Fluid Return Pipe Bracket Bolt 3	7 ± 1
Fluid Return Pipe Bracket Nut 4	7 ± 1
High Pressure Fluid Pipe Joint Hollow Bolt	40 ± 3
Cooling Pipe Bracket Nut 1	7 ± 1
Cooling Pipe Bracket Nut 2	7 ± 1
Mounting Bolt Between Steering Gear and Sub Frame	120 ± 10
Steering Tie Rod Locking Nut	45 ± 5
Power Steering Pump Bracket Fixing Bolt	25 ± 3
Coupling Bolt Between Power Steering Pump Assembly and Steering Pump Bracket	25 ± 3
Locking Nut Between Ball Pin Assembly and Steering Knuckle Assembly	45 ± 5
Mounting Bolt Between Steering Gear Assembly and Front Sub Frame Welding Assembly	120 ± 10
Steering Tie Rod Adjustment Nut	55 ± 5

04

ELECTRONIC POWER STEERING

Specifications

Torque Specifications

Description	Torque (N·m)
Ball Pin Locking Nut	35 ± 3
Coupling Bolt between Steering Gear Input Shaft and Steering Column with Intermediate Shaft Assembly	60 ± 5
Steering Gear Fixing Bolt	120 ± 10

04

AIR CONDITIONING

Specifications

Torque Specifications

Description	Torque (N·m)
A/C Control Panel Assembly Fixing Screw	2.5 ± 0.5
Coupling Bolt Between A/C High/Low Pressure Line and Expansion Valve	7 ± 1
Fixing Nut Between HVAC Assembly and Instrument Panel Crossmember Assembly	7 ± 1
Fixing Bolt Between HVAC Assembly and Instrument Panel Crossmember Assembly	4 ± 1
Fixing Bolt Between HVAC Assembly and Body	7 ± 1
Air Inlet Assembly Right Fixing Screw	2.5 ± 0.5
Air Inlet Assembly Left Fixing Screw	2.5 ± 0.5
Air Inlet Assembly Rear Fixing Screw	2.5 ± 0.5
Left Foot Fan Shield Fixing Screw	2.5 ± 0.5
Right Foot Fan Shield Fixing Screw	2.5 ± 0.5
Coupling Bolt Between Expansion Valve and Expansion Valve Mounting Pressure Plate	7 ± 1
Blower Case Assembly Upper Fixing Screw	2.5 ± 0.5
Blower Case Assembly Lower Fixing Screw	2.5 ± 0.5
Evaporator Case Assembly Fixing Screw	2.5 ± 0.5
Heater Core Line Pressure Plate Fixing Screw	2.5 ± 0.5
Heater Core Line Cover Plate Fixing Screw	2.5 ± 0.5
Mode Damper Adjustment Mechanism Set Fixing Screw	2.5 ± 0.5
Coupling Nut Between A/C High/Low Pressure Line Fixing Bracket and Body	7 ± 1
Fixing Bolt Between A/C Low Pressure Line and Compressor Assembly	25 ± 2.5
Fixing Bolt Between A/C High Pressure Line and Compressor Assembly	25 ± 2.5
Fixing Nut Between A/C High Pressure Line I and Condenser Assembly	7 ± 1
Fixing Nut Between A/C High Pressure Line II and Condenser Assembly	7 ± 1
Coupling Bolt Between Rear Mounting Cushion Assembly and Rear Mounting Bracket	70 ± 5
Coupling Nut Between Rear Mounting Cushion Assembly and Rear Mounting Bracket	70 ± 5

04



Description	Torque (N·m)
Coupling Bolt Between Front Mounting Cushion Assembly and Front Mounting Bracket	70 ± 5
Coupling Nut Between Front Mounting Cushion Assembly and Front Mounting Bracket	70 ± 5
Coupling Bolt Between Right Mounting Cushion Assembly and Right Mounting Bracket	80 ± 6
Coupling Nut Between Right Mounting Cushion Assembly and Right Mounting Bracket	80 ± 6
Coupling Bolt Between Right Mounting Cushion Assembly and Body	70 ± 5
Coupling Bolt Between Compressor Assembly and Mounting Bracket	40 ± 5
Fixing Bolt Between Condenser Assembly and Tank Upper Crossmember Fixing Bracket	7 ± 1

Refrigerant Charging Specification

Description	Charging Capacity (g)
R134a Refrigerant	600 ± 10

Refrigerant Oil Charging Specifications

Description	Charging Capacity (ml)
Compressor Assembly Replacement	It is necessary to pour out 50 ml of refrigerant oil from the new compressor assembly
Condenser Replacement	50
Evaporator Replacement	50
A/C Line Replacement	10

SUPPLEMENTAL RESTRAINT SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
Coupling Bolt Between Front Passenger Airbag and Instrument Panel Crossmember Assembly	10 ± 1
Coupling Nut Between SRS Control Module Assembly and Body	10 ± 1

04

SEAT BELT

Specifications

Torque Specifications

04

Description	Torque (N·m)
Height Adjuster Fixing Bolt	23 ± 2
Front Seat Belt Assembly Fixing Bolt	50 ± 5
Front Seat Belt Retractor Fixing Screw	3 ± 0.5
Front Seat Belt Assembly Center Fixing Screw	1.5 ± 0.5
Rear Seat Belt Assembly Fixing Bolt	50 ± 5
Rear Seat Belt Assembly Fixing Screw	1.5 ± 0.5
Center Seat Belt Assembly Fixing Bolt	50 ± 5
Center Seat Belt Inner Trim Cover Fixing Screw	3 ± 0.5
Rear Seat Belt Buckle Assembly Fixing Bolt	50 ± 5
Rear Center Seat Belt Buckle Assembly Fixing Bolt	50 ± 5
Rear Right Seat Belt Buckle Assembly Fixing Bolt	50 ± 5
Front Seat Belt Buckle Fixing Nut	50 ± 5

LIGHTING SYSTEM

Specifications

Bulb Specifications

Bulb Name	Nominal Light Source (Model/Type)
Headlight (High Beam/Low Beam)	H1/H7
Front Position Light	LED
Front Turn Signal Light	PY21W
Brake Light	LED
Front Fog Light	H7
Rear Fog Light	P21W
License Plate Light	C5W
High Mounted Stop Light	LED
Rear Position Light	LED
Rear Turn Signal Light	PY21W
Back-up Light	W16W
Side Turn Signal Light	LED
Front Dome Light	C10W
Rear Dome Light	10W
Luggage Compartment Light	C5W
Front Door Courtesy Light	3W

Torque Specifications

Description	Torque (N·m)
Headlight Assembly Fixing Bolt	3.5 ± 0.5
Front Fog Assembly Fixing Screw	1.5 ± 0.5
Rear Combination Light Assembly Fixing Nut	4.5 ± 1
Rear Combination Light Assembly Fixing Screw	1.5 ± 0.5
Front Dome Light Assembly Fixing Screw	1.5 ± 0.5
Rear Dome Light Assembly Fixing Screw	1.5 ± 0.5
Rear Fog Light & Reflector Assembly Fixing Screw	1.5 ± 0.5
High Mounted Stop Light Fixing Nut	3.5 ± 0.5
Back-up Light Switch	20 ± 2

WIPER AND WASHER

Specifications

Torque Specifications

Description	Torque (N·m)
Front Wiper Arm Assembly Fixing Nut	18 ± 2
Wiper Motor and Link Rod Assembly Fixing Bolt	10 ± 1
Front Wiper Motor Assembly Fixing Screw	10 ± 1
Front Wiper Motor Assembly Fixing Nut	10 ± 1
Rear Wiper Arm Assembly Upper Fixing Nut	10 ± 1
Rear Wiper Motor Assembly Fixing Bolt	10 ± 1
Guide Pipe Assembly Fixing Bolt	7 ± 1
Washer Fluid Reservoir Assembly Fixing Bolt	7 ± 1
Brake Fluid Reservoir Assembly Fixing Nut	9 ± 1
Rain Gutter Rail Reinforcement Assembly Fixing Bolt	10 ± 1

DOOR LOCK

Specifications

Torque Specifications

Description	Torque (N·m)
Tank Upper Crossmember Deflector Fixing Nut	10 ± 1
Engine Hood Lock Assembly Fixing Nut	10 ± 1
Front Door Lock Assembly Fixing Screw	5.8 ± 0.7
Front Door Key Cylinder Cover Fixing Screw	5 ± 1
Front Door Lock Striker Assembly Fixing Screw	10 ± 1
Rear Door Lock Assembly Fixing Screw	5.8 ± 0.7
Rear Door Lock Striker Assembly Fixing Screw	10 ± 1
Back Door Lock Assembly Fixing Bolt	10 ± 1
Back Door Lock Striker Assembly Fixing Screw	10 ± 1
Auxiliary Fascia Console Rear Cover Plate Assembly Fixing Screw	1.5 ± 0.5
Front Door Outside Handle Fixing Screw	1.5
Wireless Key Upper Cover Fixing Screw	0.4 ± 0.1

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INSTRUMENT CLUSTER

Specification

Torque Specification

Description	Torque (N·m)
Instrument Cluster Fixing Screw	1.5 ± 0.5

AUDIO SYSTEM

Specifications

Torque Specifications

Description	Torque (N·m)
No Disc DVD Assembly Fixing Screw	2 ± 0.5
Tweeter Assembly Fixing Screw	3 ± 0.5
Front Woofer Assembly Fixing Screw	2.5 ± 0.5
Rear Woofer Assembly Fixing Screw	2.5 ± 0.5
Antenna Assembly Fixing Nut	5 ± 1
No Disc DVD Control Panel Fixing Screw	2 ± 0.5
Wire Harness Fixing Screw	0.7 ± 0.2
Steering Wheel Quick Button Trim Cover Fixing Screw	0.7 ± 0.2
Steering Wheel Quick Button Fixing Screw	0.7 ± 0.2

04

REVERSING RADAR SYSTEM

Specification

Torque Specification

Description	Torque (N·m)
Fixing Bolt Between Reversing Radar Control Module Assembly and Body	5 ± 1

HORN

Specification

Torque Specification

Description	Torque (N·m)
Horn Fixing Bolt	16 ± 2

WINDSHIELD/WINDOW GLASS

Specifications

Torque Specifications

Description	Torque (N·m)
Power Glass Regulating Control Master Switch Assembly Fixing Screw	2 ± 0.5
Power Glass Regulating Switch Assembly Fixing Screw	2 ± 0.5
Front Door Outer Weather Bar Fixing Screw	1.3 ± 0.2
Rear Door Outer Weather Bar Fixing Screw	1.3 ± 0.2
Front Door Glass Rear Guide Rail Assembly Fixing Bolt	9 ± 1
Rear Door Glass Rear Guide Rail Assembly Fixing Bolt	9 ± 1
Rear Door Glass Rear Guide Rail Assembly Fixing Screw	5 ± 0.5
Front Door Glass Assembly Fixing Bolt	9 ± 1
Rear Door Glass Assembly Fixing Bolt	9 ± 1
Front Door Power Glass Regulator Assembly Fixing Bolt	9 ± 1
Rear Door Power Glass Regulator Assembly Fixing Bolt	9 ± 1
A/C Control Panel Fixing Screw	2 ± 0.5

04

REAR VIEW MIRROR

Specifications

Torque Specifications

Description	Torque (N·m)
Outside Rear View Mirror Assembly Fixing Bolt	6 ± 1
Inside Rear View Mirror Assembly Fixing Screw	1.5 ± 0.5

04

INSTRUMENT PANEL

Specifications

Torque Specifications

04

Description	Torque (N·m)
Auxiliary Fascia Console Front Protector Fixing Bolt	5 ± 1
Auxiliary Fascia Console Assembly Fixing Screw	1.5 ± 0.5
Auxiliary Fascia Console Assembly Fixing Bolt	5 ± 1
Front Storage Box Fixing Screw	1.5 ± 0.5
Armrest Box Assembly Fixing Screw	1.5 ± 0.5
Auxiliary Fascia Console Rear Cover Plate Assembly Fixing Screw	1.5 ± 0.5
Cup Holder Assembly Fixing Screw	1.5 ± 0.5
Auxiliary Fascia Console Front Trim Ring Fixing Screw	1.5 ± 0.5
Gear Backlight Fixing Screw	1.5 ± 0.5
Instrument Panel Lower Left Protector Assembly Fixing Screw	2 ± 0.5
Front Passenger Airbag Assembly Fixing Bolt	10 ± 1
Instrument Panel Assembly Fixing Bolt	7 ± 1
Face Air Duct Assembly Fixing Screw	1.5 ± 0.5
Defroster Duct Assembly Fixing Screw	1.5 ± 0.5
Center Defroster Duct Assembly Fixing Screw	1.5 ± 0.5
Instrument Panel Right Outlet Assembly Fixing Screw	1.5 ± 0.5
Instrument Panel Fuse and Relay Box Fixing Bolt	7 ± 1
Connector Mounting Bracket Fixing Bolt	7 ± 1
Diagnostic Interface Fixing Screw	1.5
Smart Entry Start Controller Fixing Nut	7 ± 1
Instrument Panel Crossmember Lower Bracket Assembly	25 ± 3
Steering Column Assembly Fixing Nut	25 ± 3
Steering Column Assembly Fixing Bolt	25 ± 3
Blower Fixing Bolt	4 ± 1
Ground Wire Fixing Nut	15 ± 2
Instrument Panel Crossmember Assembly Fixing Bolt	25 ± 3
Instrument Panel Crossmember Assembly Fixing Nut	7 ± 1

Description	Torque (N·m)
Instrument Panel Crossmember Assembly Fixing Screw	7 ± 1
Instrument Panel Crossmember Bracket Assembly Fixing Bolt	25 ± 3

SEAT

Specifications

Torque Specifications

04

Description	Torque (N·m)
Front Seat Assembly Fixing Bolt	50 ± 5
Seat Track Unlock Handle Fixing Screw	4.8 ± 0.5
Seat Front Mounting Foot Cover Assembly Fixing Screw	4.8 ± 0.5
Seat Rear Mounting Foot Cover Assembly Fixing Screw	4.8 ± 0.5
Seat Height Adjuster Handle Fixing Screw	4.8 ± 0.5
Seat Reclining Adjuster Handle Fixing Screw	4.8 ± 0.5
Seat Outer Shield Assembly Fixing Screw	4.8 ± 0.5
Seat Belt Buckle Assembly Fixing Nut	50 ± 5
Seat Inner Shield Assembly Fixing Screw	4.8 ± 0.5
Seat Track Assembly Fixing Bolt	24 ± 2.4
Rear Seat Assembly Fixing Bolt	50 ± 5
Attachment Trim Cover Fixing Screw Between Rear Seat Cushion and Seatback	4.8 ± 0.5
Rear Seat Armrest Assembly Fixing Screw	4.8 ± 0.5
Child Seat Upper Fixing Point Trim Cover Fixing Screw	4.8 ± 0.5
Rear Seatback Unlock Mechanism Assembly Fixing Screw	4.8 ± 0.5
Rear Seat Mounting Foot Cover Assembly Fixing Screw	4.8 ± 0.5
Fixing Bolt Between Rear Seat Cushion Assembly and Seatback Assembly	48 ± 4.8
Rear Seat Folder Mechanism Assembly Outer Cover Fixing Screw	4.8 ± 0.5
Rear Seat Reclining Adjuster Inner Cover Fixing Screw	4.8 ± 0.5
Rear Seat Bracket Assembly Fixing Bolt	48 ± 4.8

ENGINE HOOD/DOOR

Specifications

Torque Specifications

Description	Torque (N·m)
Fixing Bolt Between Hood Assembly and Hood Hinge Assembly	23 ± 2
Hood Lock Assembly Fixing Nut	10 ± 1
Fixing Bolt Between Hood Hinge Assembly and Fender Assembly	10 ± 1
Fixing Bolt Between Hood Hinge Assembly and Body	23 ± 2
Water Tank Upper Crossmember Deflector Fixing Nut	10 ± 1
Hood Grip Assembly Fixing Screw	1.5 ± 0.5
Hood Air Spring Ball Pin Assembly	10 ± 1
Front Door Inside Handle Assembly Fixing Screw	1.5 ± 0.5
Front Door Protector Assembly Fixing Screw	1.5 ± 0.5
Front Door Assist Grip Assembly Fixing Screw	1.5 ± 0.5
Front Door Assist Grip Mounting Bracket Assembly Fixing Screw	1.5 ± 0.5
Front Door Outside Handle Base Assembly Fixing Screw	5 ± 1
Fixing Bolt Between Front Door Hinge Assembly and Door	70 ± 3
Fixing Bolt Between Front Door Hinge Assembly and Body	70 ± 3
Front Door Lock Striker Assembly Fixing Screw	10 ± 1
Rear Door Inside Handle Assembly Fixing Screw	1.5 ± 0.5
Rear Door Protector Assembly Fixing Screw	1.5 ± 0.5
Rear Door Assist Grip Assembly Fixing Screw	1.5 ± 0.5
Rear Door Assist Grip Mounting Bracket Assembly Fixing Screw	1.5 ± 0.5
Rear Door Outside Handle Base Assembly Fixing Screw	5 ± 1
Fixing Bolt Between Rear Door Hinge Assembly and Door	70 ± 3
Fixing Bolt Between Rear Door Hinge Assembly and Body	70 ± 3
Rear Door Lock Striker Assembly Fixing Screw	10 ± 1
Back Door Grip Assembly Fixing Screw	7 ± 1
Back Door Lower Protector Assembly Fixing Screw	1.5 ± 0.5

Description	Torque (N·m)
Back Door Locating Seat Fixing Bolt	1.5 ± 1
Back Door Locating Block Fixing Bolt	1.5 ± 1
Fixing Bolt Between Back Door Hinge Assembly and Back Door	23 ± 2
Back Door Hinge Assembly Fixing Nut	23 ± 2
Back Door Lock Striker Assembly Fixing Screw	10 ± 1
Back Door Upper Trim Board Assembly Fixing Screw	3 ± 1
Back Door Upper Trim Board Assembly Fixing Nut	5 ± 1
Back Door Opener Switch Assembly Fixing Bolt	10 ± 1
Back Door Air Spring Assembly Ball Pin	10 ± 1

EXTERIOR

Specifications

Torque Specifications

Description	Torque (N·m)
Front Name Plate CAC Assembly Fixing Screw	2.5 ± 0.5
Front Bumper Upper Grille Fixing Screw	2.5 ± 0.5
Front Bumper Assembly Fixing Screw	3 ± 1
Front Bumper Assembly Fixing Bolt	10 ± 1
Front Fog Assembly Fixing Screw	1.5 ± 0.5
Front Bumper Mounting Bracket Assembly Fixing Bolt	10 ± 1
Headlight Fixing Bolt	3.5 ± 0.5
Front Bumper Upper Mounting Bracket Assembly Fixing Bolt	10 ± 1
Front Bumper Lower Mounting Bracket Assembly Fixing Bolt	10 ± 1
Front Bumper Crossmember Assembly Fixing Nut	23 ± 2
Apron Plate Cover Assembly Fixing Screw	3 ± 1
Apron Plate Assembly Fixing Screw	3 ± 1
Front Bumper Center Stiffener Bracket Assembly Fixing Bolt	10 ± 1
Front Bumper Lower Stiffener Bracket Assembly Fixing Nut	10 ± 1
Front Wheel House Protector Assembly Fixing Screw	3 ± 1
Fender Assembly Fixing Bolt	10 ± 1
Engine Lower Protector Assembly Fixing Bolt	10 ± 1
Engine Lower Protector Assembly Fixing Screw	3 ± 1
Rear Bumper Assembly Fixing Screw	3 ± 1
Rear Bumper Assembly Fixing Bolt	3 ± 1
Rear Bumper Mounting Bracket Assembly Fixing Screw	3 ± 1
Rear Bumper Crossmember Assembly Fixing Bolt	23 ± 2
Front Wheel House Protector Assembly of Rear Wheel Fixing Screw	3 ± 1
Rear Wheel House Protector Assembly Fixing Screw	3 ± 1
Front Windshield Lower Garnish Assembly Fixing Screw	3 ± 1
Roof Rack Assembly Fixing Bolt	9 ± 1
Rear Spoiler Assembly Fixing Nut	5 ± 1

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Description	Torque (N·m)
High Mounted Stop Light Fixing Nut	3.5 ± 0.5
Back Door Locating Seat Fixing Bolt	1.5 ± 1
Rear Bumper Energy Absorber Fixing Bolt	23 ± 2
Rear Fog Light Fixing Screw	1.5 ± 0.5
Back Door Upper Trim Board Assembly Fixing Screw	3 ± 1
Back Door Upper Trim Board Assembly Fixing Nut	5 ± 1
Camera Fixing Screw	6 ± 0.5

INTERIOR

Specifications

Torque Specifications

Description	Torque (N·m)
A-pillar Lower Protector Assembly Fixing Nut	5 ± 1
B-pillar Upper Protector Assembly Fixing Screw	1.5 ± 1
Back Door Baffle Plate Assembly Fixing Screw	1.5 ± 1
Back Door Baffle Plate Assembly Fixing Nut	1.5 ± 1
C-pillar Lower Protector Assembly Fixing Screw	1.5 ± 1
C-pillar Upper Protector Assembly Fixing Screw	1.5 ± 1
Sun Visor Assembly Fixing Screw	3 ± 0.5
Sun Visor Holder B Fixing Screw	3 ± 0.5
Front Seat Belt Assembly Lower Fixing Bolt	50 ± 5
Rear Seat Belt Lower Fixing Bolt	50 ± 5
Passenger Grip Assembly Fixing Bolt	5 ± 1
Interior Front Dome Light Assembly Fixing Screw	1.5 ± 0.5
Interior Rear Dome Light Assembly Fixing Screw	1.5 ± 0.5
High Pitched Speaker Fixing Screw	3 ± 0.5
Fuel Tank Opening Bracket Assembly Fixing Bolt	10 ± 1
Ground Wire Harness Fixing Nut	15 ± 2

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