

SPECIFIED TORQUE FOR STANDARD BOLTS

Class	Diameter mm	Pitch mm	Specified torque					
			Hexagon head bolt			Hexagon flange bolt		
			N-m	kgf-cm	ft-lbf	N-m	kgf-cm	ft-lbf
4T	6	1	5	55	48 in.-lbf	6	60	52 in.-lbf
	8	1.25	12.5	130	9	14	145	10
	10	1.25	26	260	19	29	290	21
	12	1.25	47	480	35	53	540	39
	14	1.5	74	760	55	84	850	61
	16	1.5	115	1,150	83	-	-	-
5T	6	1	6.5	65	56 in.-lbf	7.5	75	65 in.-lbf
	8	1.25	15.5	160	12	17.5	175	13
	10	1.25	32	330	24	36	360	26
	12	1.25	59	600	43	65	670	48
	14	1.5	91	930	67	100	1,050	76
	16	1.5	140	1,400	101	-	-	-
6T	6	1	8	80	69 in.-lbf	9	90	78 in.-lbf
	8	1.25	19	195	14	21	210	15
	10	1.25	39	400	29	44	440	32
	12	1.25	71	730	53	80	810	59
	14	1.5	110	1,100	80	125	1,250	90
	16	1.5	170	1,750	127	-	-	-
7T	6	1	10.5	110	8	12	120	9
	8	1.25	25	260	19	28	290	21
	10	1.25	52	530	38	58	590	43
	12	1.25	95	970	70	105	1,050	76
	14	1.5	145	1,500	108	165	1,700	123
	16	1.5	230	2,300	166	-	-	-
8T	8	1.25	29	300	22	33	330	24
	10	1.25	61	620	45	68	690	50
	12	1.25	110	1,100	80	120	1,250	90
9T	8	1.25	34	340	25	37	380	27
	10	1.25	70	710	51	78	790	57
	12	1.25	125	1,300	94	140	1,450	105
10T	8	1.25	38	390	28	42	430	31
	10	1.25	78	800	58	88	890	64
	12	1.25	140	1,450	105	155	1,600	116
11T	8	1.25	42	430	31	47	480	35
	10	1.25	87	890	64	97	990	72
	12	1.25	155	1,600	116	175	1,800	130

TORQUE SPECIFICATION

Part tightened	N·m	kgf·cm	ft·lbf
Throttle body x Intake manifold	18	184	13
Intake air connector pipe x Air cleaner Assy for hose clamp	4.0	41	35 in.·lbf
Intake air connector pipe x Engine	5.0	51	44 in.·lbf
V-Bank cover x V-Bank cover bracket	5.0	51	44 in.·lbf
Knock sensor x Cylinder block	20	204	15
Intake manifold Assy x Cylinder head	18	185	13
RH camshaft oil control valve x Cylinder head	7.5	76.5	66 in.·lbf
LH camshaft oil control valve x Cylinder head	7.5	76.5	66 in.·lbf
ECM x ECM box	5.5	56	49 in.·lbf
ECM cover x ECM box	5.0	51	44 in.·lbf
Accelerator pedal rod Assy x Body	7.5	76.5	66 in.·lbf

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Part tightened	N-m	kgf-cm	ft-lbf
Fuel pipe sub-assy No. 2 x Fuel main tube for use with SST	32	330	24
Intake air connector pipe x Air cleaner assy for hose clamp	4.0	41	35 in.-lbf
Intake air connector pipe x Engine	5.0	51	44 in.-lbf
Pressure gauge x Delivery pipe	39	400	29
Delivery pipe x Lower intake manifold	21	214	15.5
Vacuum switching valve x Intake manifold	18	184	13.2
V-Bank cover bracket No. 4 x Intake manifold	7.5	76.5	66 in.-lbf
V-Bank cover bracket No. 3 x Intake manifold	7.5	76.5	66 in.-lbf
V-Bank cover bracket No. 2 x Intake manifold	7.5	76.5	66 in.-lbf
V-Bank cover bracket No. 1 x Intake manifold	7.5	76.5	66 in.-lbf
Intake air pipe connector x Intake manifold for hose clamp for bolt	4.0 5.0	41 51	35 in.-lbf 44 in.-lbf
V-Bank cover x V-Bank cover bracket	5.0	51	44 in.-lbf
Fuel tank vent tube set plate x Fuel tank	6.0	61	52 in.-lbf
Fuel sender gauge x Fuel tank	1.5	15	13 in.-lbf
Fuel tank x Body	39.2	400	29
Floor heat insulator x Fuel tank	5.4	55	47

TORQUE SPECIFICATION

Part tightened		N-m	kgf-cm	ft-lbf
Transmission housing x Transmission case	14 mm	34	345	25
	17 mm	57	581	42
Automatic transaxle breather tube x Transmission case		5.4	55	48 in.·lbf
Park/Neutral position switch assy	Bolt	13	130	9
	Nut	6.9	70	61 in.·lbf
Transmission wire x Transmission case		5.4	55	48 in.·lbf
Oil cooler tube union x Transmission case		29	296	21
Transmission control shaft lever RH		16	163	12
Transmission revolution sensor x Transmission case		5.4	55	48 in.·lbf
Extension housing assy x Transmission case		34	345	25
Oil pan x Transmission case		4.4	45	39 in.·lbf
Valve body oil strainer assy x Transmission valve body assy		10	100	7
Transmission valve body assy x Transmission case		11	110	8
Parking lock pawl bracket x Transmission case		7.4	75	65 in.·lbf
Drain plug		20	204	15
Over flow plug		20	204	15
Flange yoke x Output shaft		126	1,280	92
Oil pump x Transmission case		21	214	15
Oil pump body x Stator shaft assy		12	122	9
Detent spring x Transmission valve body assy		11	110	8
Lock plate x Transmission valve body assy		6.4	65	57 in.·lbf
Shift solenoid valve SR x Transmission valve body assy		10	100	7
Shift solenoid valve S1 x Transmission valve body assy		10	100	7
Shift solenoid valve S2 x Transmission valve body assy		10	100	7
ATF Temperature sensor x Transmission valve body assy		10	100	7
Transmission wire x Transmission valve body assy		10	100	7

TORQUE SPECIFICATION

Part Tightened	N·m	kgf·cm	ft·lbf
Charcoal canister assy x Body	5.5	56	49 in.·lbf
Ventilation valve sub-assy x Cylinder head cover	27	275	20

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TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Intake manifold x Cylinder head	18	184	13
Fuel pipe sub-assy No. 2 x Fuel main hose	35	355	26
Vacuum switching valve x Intake manifold	7.5	76	66 in.-lbf
V-Bank cover bracket No. 4 x Intake manifold	7.5	76	66 in.-lbf
V-Bank cover bracket No. 3 x Intake manifold	7.5	76	66 in.-lbf
V-Bank cover bracket No. 2 x Intake manifold	7.5	76	66 in.-lbf
V-Bank cover bracket No. 1 x Intake manifold	7.5	76	66 in.-lbf
Intake air connector pipe x Intake manifold	for clamp	4.0	35 in.-lbf
	for bolt	5.0	44 in.-lbf
V-Bank cover x V-Bank cover bracket	5.0	50	44 in.-lbf

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TORQUE SPECIFICATION

Part tightened		N-m	kgf-cm	ft-lbf
Air cleaner assy x Body		5.0	51	44 in.-lbf
ECM cover x ECM box		5.0	51	44 in.-lbf
Vane pump assy x Cylinder head	Bolt	39.2	400	29
	Nut	43.1	440	32
Engine mounting bracket front LH x Cylinder block		36	367	27
Engine mounting bracket front No. 1 RH x Cylinder block		36	367	27
Exhaust manifold sub-assy LH x Cylinder head		44	449	32
Exhaust manifold sub-assy RH x Cylinder head		44	449	32
Oil filter bracket sub-assy x Cylinder block		18	184	13
Ignition coil assy x Cylinder head cover		7.5	77	66 in.-lbf
Engine hanger No. 1 x Cylinder head		37	377	27
Engine hanger No. 2 x Cylinder head		37	377	27
Oil level gauge guide x Cylinder head		7.5	77	66 in.-lbf
Water by-pass pipe joint RR x Cylinder head		18	184	13
Water by-pass pipe joint FR x Cylinder block		18	184	13
Water inlet housing x Water pump assy		18	184	13
Intake manifold assy x Cylinder head		18	184	13
V-bank cover fastener x Surge tank		7.5	77	66 in.-lbf
V-bank cover bracket No. 1 x Surge tank		7.5	77	66 in.-lbf
V-bank cover bracket No. 2 x Surge tank		7.5	77	66 in.-lbf
V-bank cover bracket No. 3 x Surge tank		7.5	77	66 in.-lbf
Drive plate & ring gear sub-assy x Crankshaft	1st	49	500	36
	2nd	Turn 90°	Turn 90°	Turn 90°
Automatic transmission assy x Cylinder block		72	734	53
Automatic transmission assy x Oil pan sub-assy		37	377	27
Front suspension crossmember x Engine mounting insulator		68	693	50
Steering sliding w/shaft yoke sub-assy x Steering intermediate shaft		35	357	26
Cooler compressor assy x Idler pulley assy		49	500	36
Cooler compressor stay x Oil filter bracket		29	296	21
Camshaft drive gear x Camshaft timing tube assy		7.5	77	66 in.-lbf
Camshaft timing tube assy x Camshaft		78	795	58
Screw plug x Camshaft timing tube assy		15	153	11
Engine rear oil seal retainer x Cylinder block		8.0	82	71 in.-lbf
Water pump assy x Cylinder block	for bolt	21	214	16
	for stud bolt and nut	18	184	13
Cylinder head LH x Cylinder block	1st	59	602	44
	2nd	Turn 90°	Turn 90°	Turn 90°
Cylinder head RH x Cylinder block	1st	59	602	44
	2nd	Turn 90°	Turn 90°	Turn 90°
Camshaft bearing cap x Cylinder head	Front bearing cap (w/o seal washer)	7.5	77	66 in.-lbf
	Others	16	163	12
Timing belt plate RR RH x Cylinder head		7.5	77	66 in.-lbf
Timing belt plate RR RH No. 2 x Cylinder head		7.5	77	66 in.-lbf
Timing belt plate RR LH x Cylinder head		7.5	77	66 in.-lbf

Timing belt plate RR LH No. 2 x Cylinder head		7.5	77	66 in.·lbf
Camshaft timing pulley x Camshaft timing tube assy		7.5	77	66
Camshaft timing pulley LH x Camshaft timing tube assy		7.5	77	66
Timing belt idler sub-assy No. 1 x Oil pump		34.5	352	25
Timing belt idler sub-assy No. 2 x Oil pump		34.5	352	25
Timing belt tensioner x Oil pump		26	265	19
Crankshaft damper sub-assy x Crankshaft		245	2,500	181
V ribbed belt tensioner assy x Cylinder block		16	163	12
Timing belt cover sub-assy No. 2 x Cylinder block		16	163	12
Idler pulley sub-assy No. 2 x Idler pulley assy		39	398	29
Idler pulley assy x Cylinder block	12 mm head	16	163	12
	14 mm head	32	330	24
Timing belt cover sub-assy No. 3 LH x Cylinder block		7.5	77	66
Timing chain or belt cover No. 2 x Cylinder head		7.5	77	66
Cylinder head cover sub-assy LH x Cylinder head		6.0	61	53 in.·lbf
Cylinder head cover sub-assy x Cylinder head		6.0	61	53 in.·lbf
Timing belt No. 1 cover x Cylinder block		7.5	77	66 in.·lbf
Crankshaft bearing cap x Cylinder block	2 progressive type 1st	27	275	20
	2nd	Turn 90°	Turn 90°	Turn 90°
	Others	49	500	36
Connecting rod cap x Connecting rod	1st	24.5	250	18
	2nd	Turn 90°	Turn 90°	Turn 90°
Water seal plate x Cylinder block		14	145	10
Cylinder block water drain cock sub-assy x Cylinder block		49	500	36
Drive plate & ring gear sub-assy x Torque converter clutch		48	490	35
Flywheel housing under cover x Transmission		18	184	13
Power steering gear housing assy x Front suspension crossmember		65	663	48
Pneumatic front LH w/ shock absorber cylinder assy x Lower arm		156.8	1,599	116
Pneumatic front RH w/ shock absorber cylinder assy x Lower arm		156.8	1,599	116
V-bank cover x Intake manifold		5.0	51	44 in.·lbf
Radiator upper support x Body		13.5	135	10
PS oil hose bracket x Generator		5.0	51	44 in.·lbf
Height control sensor link sub-assy front x Lower arm		5.4	55	48 in.·lbf
Stabilizer bar x Frame assy		23	235	17
Engine rear mounting insulator x Body	for bolt	25.5	260	19
	for nut	13.5	138	10
Propeller w/ center bearing shaft assy x Body		37	377	27
Propeller w/ center bearing shaft assy x Transmission assy		79	806	58
Propeller w/ center bearing shaft assy x Differential		79	806	58
Heated oxygen sensor (Bank 1, 2 Sensor 2) x Exhaust pipe assy		44	449	32
w/ Catalyst converter assy x Exhaust manifold		62	632	46
Exhaust pipe assy x w/ Catalyst converter assy		44	449	32
Pipe support bracket x Body		44	449	32
Front floor brace center x Body		13	133	10
Throttle body assy x Intake manifold		18	184	13
Engine wire protector x Engine		5.0	51	44 in.·lbf
Engine oil level sensor x Oil pan sub-assy		6.9	70	61 in.·lbf

SERVICE SPECIFICATIONS - ENGINE MECHANICAL

Camshaft timing oil control valve assy RH x Cylinder head		7.5	77	60 in.·lbf
Camshaft timing oil control valve assy LH x Cylinder head		7.5	77	60 in.·lbf
Knock sensor (Bank 1, 2) x Cylinder block		20	204	14
Wire harness heat insulator No. 2 x Cylinder block		7.5	77	60 in.·lbf
Oil strainer x sub-assy x Cylinder block		7.5	77	60 in.·lbf
Oil pan baffle plate x Oil pan sub-assy		7.5	77	66 in.·lbf
Oil pan sub-assy No. 2 x Oil pan sub-assy		7.5	77	66 in.·lbf
Oil pump assy x Cylinder block	12 mm head	15.5	160	11
	14 mm head and 6 mm hexagon head	30.5	310	22
Oil pan sub-assy x Cylinder block	10 mm head	7.5	80	66 in.·lbf
	12 mm head	28	290	21

2004-2006 Torque Specification

EXHAUST

TORQUE SPECIFICATION

031SE-02

Part tightened	N·m	kgf·cm	ft·lbf
TWC x Exhaust manifold	62	630	46
Exhaust pipe assy front x TWC	44	450	32
Exhaust pipe No. 1 support bracket sub-assy x Transmission	44	450	32
Exhaust pipe assy front x Exhaust pipe No. 1 support bracket sub-assy	44	450	32
Heated oxygen sensor x Exhaust pipe assy front	44	450	32
Front floor heat insulator No. 1 x Body	5.4	55	48 in.·lbf
Front floor heat insulator sub assy No. 1 x Body	5.4	55	48 in.·lbf
Front floor heat insulator sub assy No. 2 x Body	5.4	55	48 in.·lbf
Front floor brace center x Body	7.4	75	65 in.·lbf
Propeller shaft heat insulator x Fuel tank protector sub-assy No. 1	5.4	55	48 in.·lbf
Exhaust pipe support sub-assy No. 3 x Body	13	133	10
Exhaust pipe assy tail (RH) x Exhaust pipe protector lower No. 5	10.5	107	8
Exhaust pipe assy tail (LH) x Exhaust pipe protector lower No. 6	10.5	107	8
Main muffler heat insulator x Body	5.4	55	48 in.·lbf
Main muffler heat insulator (LH) x Body	5.4	55	48 in.·lbf

TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Radiator support bracket x Body	13.5	138	10
Water pump assy x Cylinder block	bolt	21	15
	stud bolt	18	13
Water inlet housing x Water pump assy	18	185	13
Water inlet x Water inlet housing	19	195	14

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TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Drain plug x Oil pan sub-assy No. 2	39	400	29
Oil pump body cover x Oil pump body	10	105	7
Oil pump body x Plug for relief valve	49	500	36
Oil pump assy x Cylinder block	15.5	160	11
12 mm head	30.5	310	22
14 mm head and 6 mm hexagon head			
Oil strainer x Cylinder block, Oil pump assy	7.5	80	66 in.-lbf
Oil pan sub-assy x Oil pump assy, Rear oil seal retainer	7.5	80	66 in.-lbf
Oil pan sub-assy x Cylinder block	7.5	80	66 in.-lbf
10 mm head	28	290	21
12 mm head			
Oil pan baffle plate x Oil pan sub-assy	7.5	80	66 in.-lbf
Oil pan sub-assy No. 2 x Oil pan sub-assy	7.5	80	66 in.-lbf
Oil level sensor x Oil pan sub-assy	6.9	70	61 in.-lbf
Crank position sensor x Oil pump assy	6.5	65	58 in.-lbf
Oil filter bracket sub-assy x Oil pump assy	18	185	13

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TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Camshaft position sensor x LH cylinder head	7.5	76	66 in.-lbf
Crankshaft position sensor x Oil pump	6.5	65	58 in.-lbf

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TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Starter			
Starter wire clamp x Wire bracket	9.8	100	87 in.-lbf
Starter wire x Starter assy	9.8	100	87 in.-lbf
End cover x Brush holder	3.8	39	34 in.-lbf
Starter housing x Magnetic switch	9.3	95	82 in.-lbf
End cover with starter yoke x Starter housing	9.3	95	82 in.-lbf
Lead wire of starter yoke x Terminal C	5.9	60	52 in.-lbf
Starter assy x Cylinder block	39	400	29
Water by-pass pipe x Cylinder block	18	185	13
V-bank cover x V-bank cover bracket	5.0	51	44 in.-lbf
Generator			
Generator x Cylinder block	39	400	29
Generator x Grand cable	12	122	8.9
Bearing retainer x Drive end frame	2.3	24	20 in.-lbf
Generator pulley x Rotor	111	1,132	82
Generator x Cord clip	5.9	60	52 in.-lbf
Coil assy x Drive end frame	5.8	59	51 in.-lbf
Brush holder assy x Coil assy	1.8	18	16 in.-lbf
Rear end cover x Coil assy	4.6	47	41 in.-lbf
V-bank cover x V-bank cover bracket	5.0	51	44 in.-lbf

TORQUE SPECIFICATION

Part Tightened	N-m	kgf-cm	ft-lbf
Pneumatic cylinder assy x Air tube	17	175	13
Height control compressor assy x Height control dryer assy	6.4	65	57 in.·lbf
Height control compressor x Height control compressor bracket	5.9	60	52 in.·lbf
Height control compressor bracket x Body	19	194	14
Height control sensor sub-assy front x Body	7.8	80	69 in.·lbf
Height control sensor sub-assy front x Lower arm assy	5.4	55	48 in.·lbf
Front disc wheel hub nut	103	1,050	76
Height control sensor sub-assy rear x Body	7.8	80	69 in.·lbf
Height control sensor sub-assy rear x Rear suspension arm assy No.2	5.4	55	48 in.·lbf
Height control valve sub-assy No.1 x Body	5.4	55	48 in.·lbf
Height control valve sub-assy No.2 x Body	5.4	55	48 in.·lbf
Suspension control ECU x Air conditioner amplifier assy	5.5	56	48 in.·lbf

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TORQUE SPECIFICATION

Part Tightened		N-m	kgf-cm	ft-lbf
Tie rod end lock nut		59	600	43
Hub nut		103	1,050	76
Suspension support x Piston rod		28	280	20
Speed sensor wire harness bracket set bolt		19	194	14
Lower suspension arm set bolt	Front side:	200	2,040	148
	Rear side:	206	2,100	152
Suspension lower arm x Lower ball joint assy		162	1,645	119
Stabilizer bar bracket x Body		23	235	27
Stabilizer link set nut		55	560	41
Pneumatic shock absorber x Body		58	590	43
Pneumatic shock absorber x Suspension lower arm		157	1,600	116
Shock absorber with coil spring x Body		58	590	43
Shock absorber with coil spring x Suspension lower arm		157	1,600	116
Suspension lower arm x Body (Camber adjust cam bolt)		172	1,755	127
Suspension lower arm bracket x Body	Vehicle inside	60	612	44
	Vehicle outside	137	1,395	101
Lower ball joint assy x Steering knuckle		113	1,150	83
Suspension upper arm x Steering knuckle		87	885	64
Suspension upper arm x Body		53	540	39

TORQUE SPECIFICATION

Part Tightened	N-m	kgf-cm	ft-lbf
Hub nut	103	1,050	76
Pneumatic shock absorber x Rear axle carrier	70	720	52
Pneumatic shock absorber x Body	64	650	47
Shock absorber with coil spring x Rear axle carrier	70	720	52
Shock absorber with coil spring x Body	64	650	47
Rear suspension support x Shock absorber piston rod	27	280	20
Rear suspension arm assy No.1 x Rear suspension member	90	920	67
Rear suspension arm assy No.1 x Rear axle carrier	70	720	52
Rear suspension arm assy No.2 x Rear suspension member	90	920	67
Rear suspension arm assy No.2 x Rear axle carrier	70	720	52
Height control sensor x Rear suspension arm assy No.2	5.4	55	48 in. lbf
Stabilizer link set nut	65	660	48
Stabilizer bar bracket set bolt	18	180	13
Shock absorber cap x Body	25	260	18
Upper control arm x Body	90	920	67
Upper control arm x Rear axle carrier	70	720	52
Toe control link x Body	50	510	37
Toe control link x Rear axle carrier	50	510	37

TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Propeller intermediate shaft x Transmission	79	805	58
Propeller shaft x Companion flange	79	805	58
Center support bearing x Body	37	375	27
Front floor heat insulator No. 1 set bolt	5.4	55	48 in.·lbf
Oxygen sensor x Exhaust pipe	44	450	32
Rear suspension member brace x Body	50	510	37
Center floor cross member brace x Body	7.4	75	65 in.·lbf
Differential carrier set nut			
	Front side	105	1,065
	Rear side	142	1,450
Drain plug	49	500	36
Filler plug	49	500	36
Breather plug	21	210	15
Companion flange x Drive pinion		29-7	
Differential case x Ring gear	64	650	47
Differential carrier x Differential carrier cover	47	475	35
Oil deflector set bolt	7.0	70	62 in.·lbf
Stabilizer ber rear set bolt	18	184	13
Differential support protector set bolt	5.4	55	48 in.·lbf
Propeller shaft heat insulator set bolt	5.4	55	48 in.·lbf
Engine under cover No.2 set bolt	5.4	55	48 in.·lbf
Exhaust pipe assy x Exhaust manifold	44	450	33

TORQUE SPECIFICATION

Part Tightened	N-m	kgf-cm	ft-lbf
Intermediate shaft x Flexible coupling	79	805	58
Propeller shaft assy x Flexible coupling	79	805	58
Intermediate shaft assy x Adjusting nut	69	700	51
Propeller shaft heat insulator x Body	5.4	55	48 in.·lbf
Front floor heat insulator No. 1 x Body	5.4	55	48 in.·lbf
Propeller shaft assy x Front flange	79	805	58
Propeller shaft assy x Rear differential	79	805	58
Center support bearing assy No. 1 x Body	37	375	27
Front wheel set nut	103	1,050	76
Lower ball joint assy x Steering knuckle	113	1,150	83
Steering knuckle x Upper suspension arm	87	887	64
Front axle hub sub-assy x Steering knuckle	69	700	51
Front disc brake caliper assy x Steering knuckle	110	1,122	81
Skid control sensor wire clamp x Steering knuckle	5.5	56	49 in.·lbf
Rear wheel set nut	103	1,050	76
Speed sensor rear x Rear axle carrier sub-assy	8.0	82	71 in.·lbf
Rear drive shaft x Rear axle shaft nut	290	2,960	214
Rear axle carrier sub-assy x Rear disc brake caliper	78	800	58
Rear stabilizer link assy x Rear suspension arm assy No.2	65	663	48
Height control sensor link x Rear suspension arm assy No.2	5.4	55	48 in.·lbf
Rear axle carrier sub-assy x Toe control link sub-assy	50	510	37
Rear axle carrier sub-assy x Rear axle hub & bearing assy	65	663	48
Rear axle carrier sub-assy x Upper control arm assy rear	70	714	52
Rear axle carrier sub-assy x Rear suspension arm assy No.2	70	714	52
Rear suspension member brace x Body	50	510	37
Rear axle carrier sub-assy x Rear suspension arm assy No.1	70	714	52
Differential support protector No.2 x Body	5.4	55	48 in.·lbf
Parking brake cable assy No.3 x Body	19	194	14

TORQUE SPECIFICATION

Part Tightened	N-m	kgf-cm	ft-lbf
Bleeder plug	8.3	85	73 in.·lbf
Brake booster clevis lock nut	26	265	19
Stop lamp switch assy lock nut	17	173	13
Brake pedal support sub-assy x Brake pedal sub-assy	37	375	27
Brake master cylinder x Brake tube	15	155	11
Brake booster x Body	13	130	9
Brake pedal support sub-assy x Body	13	130	9
Brake pedal support sub-assy x Instrument panel reinforcement	20	204	15
Brake master cylinder x Brake booster	13	127	9
Wheel nut	103	1,050	76
Front brake cylinder mounting x Steering knuckle	110	1,122	81
Front brake cylinder x Front brake cylinder mounting	34	350	25
Front disc brake cylinder x Flexible hose	29	300	21
Rear disc brake cylinder mounting x Rear axle	78	799	58
Rear brake cylinder x Rear brake cylinder mounting	43	440	32
Rear disc brake cylinder x Flexible hose	29	300	21
Front speed sensor x Steering knuckle	8.0	82	71 in.·lbf
Front speed sensor wire harness clamp x Shock absorber	29	300	22
Front speed sensor wire harness clamp x Body	5.0	51	44 in.·lbf
Rear speed sensor x Rear axle	4WD: 8.0	82	71 in.·lbf
Rear speed sensor wire harness clamp x Body	5.0	51	44 in.·lbf
Brake actuator with bracket x Body	19	194	14
Brake actuator assy x Brake tube	15	155	11
Brake actuator x Brake actuator bracket assy	5.4	55	48 in.·lbf
Yawrate sensor x Body	14	143	10

TORQUE SPECIFICATION

Part Tightened		N-m	kgf-cm	ft-lbf
Wheel nut		103	1,050	76
Parking brake cable lock nut		6	61	53 in.-lbf
Parking brake control pedal set bolt		39	400	29
Parking brake cable assy No.1 x Body	Bolt	8.5	87	75 in.-lbf
	nut	6	61	53 in.-lbf
Parking brake cable assy No.3 x Body	Bolt A	8.5	87	75 in.-lbf
	Bolt B	39	400	29
	nut	6	61	53 in.-lbf
Parking brake cable No.3 x Backing plate		8	82	71 in.-lbf

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TORQUE SPECIFICATION

Part Tightened	N-m	kgf-cm	ft-lbf
Refill plug x Transmission assy	39	400	53
Overflow plug x Transmission assy	20	204	15
Transmission case cover x Transmission assy	5.4	55	48 in.·lbf
Park/neutral position switch x Adjust bolt	13	130	9
Control shaft lever x Park/neutral position switch	16	160	12
Engine rear mounting member x Body	26	270	20
Floor shift gear shifting rod x Shift lever assy	13	130	9
Transmission revolution sensor x Transmission assy	5.4	55	48 in.·lbf
Drain plug x Transmission assy	20	205	15
Transmission control shaft lever RH x Park/neutral position switch	16	160	12
Engine mounting insulator rear No.1 x Transmission assy	12	122	9
Transmission assy x Engine	Bolt A:	37	27
	Bolt B:	71	52
Torque converter clutch x Drive plate	48	490	35
Flywheel housing under cover x Transmission assy	18	184	13
Wire harness x Transmission assy	Bolt A:	68	51
	Bolt B:	7.5	66 in.·lbf
Engine rear mounting member x Transmission assy	12	122	9
Engine rear mounting member x Body	26	270	20
Clamp x Transmission assy	5.0	50	43 in.·lbf
Oil cooler outlet tube No.1 x Transmission assy	44	450	32
Oil cooler inlet tube No.1 x Transmission assy	44	450	32
Exhaust pipe No.1 support bracket x Transmission assy	44	450	32
Transmission wire x Transmission assy	5.4	55	48 in.·lbf
Clamp x Transmission valve body	10	100	7
ATF temperature sensor x Transmission valve body	10	100	7
Valve body oil strainer assy x Transmission valve body	10	100	7
Automatic transmission oil pan x Transmission assy	4.4	44	39
Solenoid valve (SL1, SLT) x Valve body	6.4	65	56 in.·lbf
Solenoid valve (SR) x Valve body	10	100	7
Solenoid valve (S1) x Valve body	10	100	7
Solenoid valve (S2, S4) x Valve body	10	100	7
Solenoid valve (S3) x Valve body	10	100	7
Solenoid valve (SLU, SL2) x Valve body	6.4	65	56 in.·lbf
Valve body x Transmission assy	11	110	8
Floor shift assy x Body	8.3	85	74 in.·lbf

TORQUE SPECIFICATION

Part tightened	N-m	kgf-cm	ft-lbf
Steering column assembly set bolt and nut	26	265	19
Steering shaft universal joint assy x Steering column assembly	35	360	26
Steering Intermediate shaft sub-assy x Steering gear assy	35	360	26
Steering wheel set nut	50	510	37
Steering wheel pad set screw (Torx screw)	8.8	90	78 in.·lbf
Multiplex tilt & terescopic ECU x Steering column assembly	1.5	15	13 in.·lbf
Tie rod end lock nut	74	750	54

2004-2006 Torque Specifications

TORQUE SPECIFICATION

Part tightened	N·m	kgf·cm	ft·lbf
VANE PUMP ASSY			
Housing front x Housing rear	22	225	16
Pressure feed tube assy joint	40 (44)	410 (450)	30 (33)
Pressure feed tube assy set union bolt	49	500	36
Pressure port union	69	705	51
Suction port union set bolt	12	125	9
Vane pump bracket	30	310	22
Vane pump assy set bolt	39	400	29
Vane pump assy set nut	43	440	32
POWER STEERING GEAR ASSY			
Control valve housing x Rack housing	18	185	13
Self-locking nut	59	600	44
Rack housing cap	69	705	51
Rack guide spring cap nut	50 (69)	510 (705)	37 (51)
Rack end sub-assy x Power steering rack	95 (127)	970 (1.300)	70 (94)
Lower ball joint x Tie rod end assy	59	600	44
Tie rod end assy lock nut	56	570	41
Pressure control valve x Control valve housing	18	185	13
Turn pressure tube union nut	23 (25)	235 (255)	17 (18)
Turn pressure tube union bolt	34	350	25
Intermediate shaft x Control valve shaft	35	360	26
Pressure feed tube assy union bolt	49	500	36
Return tube sub-assy union bolt	49	500	36
Sliding w/shaft yoke x Intermediate shaft	35	360	26
Power steering gear assy set nut	118	1,205	87
Steering wheel set nut	50	510	37
Wheel nut	103	1,050	76
POWER STEERING ECU ASSY			
Bracket set nut	5.5	56	48 in.·lbf

(): For use without SST

TORQUE SPECIFICATION

Part Tightened	N-m	kgf-cm	ft-lbf
V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1			
Generator installation bolt Bolt A	58	591	13
Generator installation bolt Bolt B	18	183	43
AIR CONDITIONING RADIATOR ASSY			
Air conditioning tube assy x Cooler evaporator sub-assy No. 1	3.5	35	30 in.·lbf
Air conditioning radiator assy x Body	1.5	15	12 in.·lbf
Air conditioning radiator assy x Instrument panel brace sub-assy No. 1	9.8	100	87 in.·lbf
BLOWER ASSY			
Blower assy x Body	1.5	15	12 in.·lbf
Instrument panel brace sub-assy No. 1 x Instrument panel reinforcement Screw	9.8	100	87 in.·lbf
COOLER COMPRESSOR ASSY (3MZ-FE)			
Magnet clutch hub x Cooler compressor assy	18	184	13
Compressor and magnet clutch x Engine	25	250	18
Cooler refrigerant suction hose No.1 x Compressor and magnet clutch	9.8	100	87 in.·lbf
Cooler refrigerant discharge hose No.1 x Compressor and magnet clutch	9.8	100	87 in.·lbf
COOLER COMPRESSOR ASSY (2AZ-FE)			
Magnet clutch hub x Cooler compressor assy	18	184	13
Compressor and magnet clutch x Engine	25	250	18
Cooler refrigerant suction hose No.1 x Compressor and magnet clutch	9.8	100	87 in.·lbf
Cooler refrigerant discharge hose No.1 x Compressor and magnet clutch	9.8	100	87 in.·lbf
COOLER CONDENSER ASSY			
Cooler condenser assy x Body	9.8	100	85 in.·lbf
Cooler refrigerant liquid pipe A x Cooler condenser assy	5.4	55	47 in.·lbf
Cooler refrigerant discharge hose No. 1 x Cooler condenser assy	5.4	55	47 in.·lbf

SUPPLEMENTAL RESTRAINT SYSTEM

TORQUE SPECIFICATION

031SJ-01

Part Tightened	N-m	kgf-cm	ft-lbf
Horn button assy x Steering wheel assy	8.8	90	78 in.·lbf
Steering wheel assy x Steering column assy	50	510	37
Front passenger airbag assy x Instrument panel reinforcement	20	205	15
Curtain shield airbag assy x Body	14	143	10
Curtain shield airbag assy x Body	11	112	8
Instrument panel airbag assy lower No.1 x Instrument panel reinforcement	10	102	7
Airbag sensor assy center x Body	20	205	15
Airbag sensor front x Body	9.0	92	80 in.·lbf
Side airbag sensor assy x Body	20	205	15
Airbag sensor rear x Body	20	205	15
Seat position airbag sensor x Front seat	10	102	7

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SEAT BELT

TORQUE SPECIFICATION

031SF-01

Part Tightened	N-m	kgf-cm	ft-lbf
FRONT SEAT BELT			
Front seat outer belt assy (For upper bolt) x Body	7.5	77	66 in. lbf
Front seat outer belt assy (For lower bolt) x Body	42	428	31
Front seat outer belt (floor anchor) x Front seat assy	42	428	31
Front seat outer belt (shoulder anchor) x Body	42	428	31
Front seat inner belt assy RH x Front seat	42	428	31
Front shoulder belt anchor adjuster assy x Body	42	428	31
REAR SEAT BELT			
Rear seat outer belt assy x Body	42	428	31
Rear seat outer belt assy (floor anchor) x Body	42	428	31
Rear seat inner belt assy RH x Body (Except power adjuster type)	42	428	31
Rear seat inner belt assy center x Body (Except power adjuster type)	42	428	31
Rear seat inner belt assy LH x Body (Except power adjuster type)	42	428	31
Rear seat inner belt assy x Body (Power adjuster type)	42	428	31
CRS anchor bracket x Body	33	337	24
CRS tether anchor bracket x Body	21	214	15

LIGHTING

TORQUE SPECIFICATION

031IQ-03

Part Tightened	N-m	kgf-cm	ft-lbf
Height control sensor sub-assy front LH x Front Steering nuckle	5.4	55	48 in.·lbf
Height control sensor sub-assy rear LH x Rear suspension arm	5.4	55	48 in.·lbf

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WIPER & WASHER

TORQUE SPECIFICATION

031IM-03

Part Tightened	N-m	kgf-cm	ft-lbf
Wiper motor x Wiper link	5.4	55	48 in.·lbf
Wiper motor x Crank arm	17	175	13
Wiper link x Body	5.5	56	49 in.·lbf
Wiper arm x Wiper link	20	205	15
Sub-wiper arm x Wiper link	5.5	56	49 in.·lbf

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WINDSHIELD/WINDOWGLASS/MIRROR

TORQUE SPECIFICATION

031SB-02

Part Tightened	N-m	kgf-cm	ft-lbf
OUTER REAR VIEW MIRROR ASSY LH			
Outer rear view mirror assy x Front door	5.5	56	49 in. lbf

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INSTRUMENT PANEL/METER

TORQUE SPECIFICATION

031SR-01

Part Tightened	N·m	kgf·cm	ft·lbf
Instrument Panel Reinforcement x[Glove Compartment Door Assy w/ Instrument Panel Airbag Assy Lower No.2	10	102	7
Instrument Panel Reinforcement Assy x[Body	20	204	15

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SEAT

TORQUE SPECIFICATION

031SY-02

Part Tightened	N-m	kgf-cm	ft-lbf
FRONT SEAT ASSY			
Seat position airbag sensor x Power seat adjuster	8	82	71 in.·lbf
Power seat motor x Power seat adjuster	2.5	25	22 in.·lbf
Power reclining adjuster x Seat adjuster	19	195	14
Front seat cushion frame x Power seat adjuster	21	214	15
Lumbar support adjuster x Seatback frame	5.2	54	47 in.·lbf
Headrest adjuster x Seatback frame	5.2	54	47 in.·lbf
Seatback cover hook x Seatback frame	5.2	54	47 in.·lbf
Seatback x Seat cushion	43	440	32
Inner belt x Power seat adjuster	42	430	31
Outer belt Anchor x Power seat adjuster	42	430	31
Seat x Body	37	375	27
REAR SEAT ASSY (Fixed type)			
Seatback x Body	18	185	13
REAR SEAT ASSY (Power Adjuster type)			
Seatback x Body	18	185	13
Seat adjuster x Body	18	185	13
Inner belt x Support bracket	42	430	31
Track assy Inner x Support bracket	21	214	15
Track assy outer x Support bracket	21	214	15

SLIDING ROOF/CONVERTIBLE

TORQUE SPECIFICATION

031SU-01

Part Tightened		N·m	kgf·cm	ft·lbf
Sliding roof glass assy x Drive cable		5.5	56	49 in.·lbf
Sliding roof housing sub-assy x Body	Nut	5.5	56	49 in.·lbf
	Bolt	8.0	82	71
Sliding roof housing sub-assy x Sliding roof drive gear		5.5	56	49 in.·lbf

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ENGINE HOOD/DOOR

TORQUE SPECIFICATION

031PN-03

Part Tightened	N·m	kgf·cm	ft·lbf
HOOD			
Auxiliary catch hook x Hood panel	8.0	82	71 in.·lbf
Auxiliary catch release lever x Hood panel	8.0	82	71 in.·lbf
Hood hinge x Body	13	130	10
Hood hinge x Hood panel	13	130	10
Hood lock x Body	8.0	82	71 in.·lbf
Hood lock control cable cover x Body	8.0	82	71 in.·lbf
Millimeter wave radar sensor x Body	8.0	82	71 in.·lbf
Radiator grille x Hood panel	5.5	56	49 in.·lbf
Radiator grille x Inside Radiator grille	5.5	56	49 in.·lbf
HOOD SUPPORT			
Hood support x Body	22	225	19
Hood support x Hood panel	22	225	19
FRONT DOOR			
Door check x Body	30	306	22
Door check x Door panel	8.0	82	71 in.·lbf
Door frame sub-assy front lower x Door panel	8.0	82	71 in.·lbf
Door frame sub-assy rear lower x Door panel	8.0	82	71 in.·lbf
Door glass x Window regulator	5.5	56	49 in.·lbf
Door hinge x Body	32.5	332	24
Door hinge x Door panel	26	265	19
Door lock x Door panel	5.5	56	49 in.·lbf
Door lock striker x Body	23	235	17
Door outside handle cover x Door panel	5.5	56	49 in.·lbf
Door outside handle frame x Door panel	5.5	56	49 in.·lbf
Outer view mirror x Door panel	5.5	56	49 in.·lbf
Power window regulator motor x Window regulator	5.4	55	48 in.·lbf
Window regulator x Door panel	11	115	8.0
REAR DOOR			
Division bar x Door panel	5.0	51	44 in.·lbf
Door check x Body	27	275	20
Door check x Door panel	8.0	82	71 in.·lbf
Door glass x Window regulator	5.5	56	49 in.·lbf
Door hinge x Body	32.5	332	24
Door hinge x Door panel	30	306	22
Door lock x Door panel	5.5	56	49 in.·lbf
Door lock striker x Body	23	235	17
Door outside handle cover x Door panel	5.5	56	49 in.·lbf
Door outside handle frame x Door panel	5.5	56	49 in.·lbf
Outer view mirror x Door panel	8.0	82	71 in.·lbf
Power window regulator motor x Window regulator	5.4	55	48 in.·lbf
Window division bar x Door panel	8.0	82	71 in.·lbf
Window regulator x Door panel	8.0	82	71 in.·lbf
LUGGAGE COMPARTMENT DOOR			
Door hinge x Door panel	13	135	10 in.·lbf
Door closer x Door panel	8.0	82	71 in.·lbf
Door striker x Body	11.5	117	7.5

Part Tightened	N·m	kgf·cm	ft·lbf
Lock cylinder x Door panel	8.0	82	71 in·lbf
Electrical key switch x Door panel	8.0	82	71 in·lbf

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EXTERIOR/INTERIOR TRIM

TORQUE SPECIFICATION

031SX-02

Part Tightened	N-m	kgf-cm	ft-lbf
FRONT BUMPER COVER			
Front bumper reinforcement x Body	12.5	130	9
REAR BUMPER COVER			
Rear bumper arm support reinforcement x Body	20	200	15
Rear bumper reinforcement x Body	20	200	15
ROOF HEADLINING			
Front seat outer belt x Body	42	430	31
Rear seat outer belt x Body	42	430	31

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HORN

TORQUE SPECIFICATION

031RV-02

Part Tightened	N-m	kgf-cm	ft-lbf
High Pitched Horn Assy			
High pitched horn assy x Body	20	204	15
Low Pitched Horn Assy			
Low pitched horn assy x Body	20	204	15

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CRUISE CONTROL

TORQUE SPECIFICATION

031GW-04

Part Tightened	N·m	kgf·cm	ft·lbf
Cruise Control ECU x[Body	5.5	56	49 in.·lbf
Millimeter Wave Radar Sensor Assy x[Body	5.5	56	49 in.·lbf

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