TORQUE SPECIFICATION

SS141-07

Part tightened	N⋅m	kgf-cm	ft-lbf
TILT STEERING COLUMN			
Adjusting nut	See page SR-18		
No. 2 tilt lever lock bolt	5.4	55	48 in.·lbf
No. 2 intermediate shaft assembly x Main shaft assembly	28	290	21
Column assembly set bolt	21	210	15
Sliding yoke x No. 3 intermediate shaft assembly	28	290	21
No. 2 intermediate shaft assembly x Sliding yoke	28	290	21
Steering wheel set nut	50	510	37
Steering wheel pad set screw (Torx screw)	8.8	90	78 in.·lbf
POWER STEERING VANE PUMP		•	
Rear housing x Front housing	22	220	16
Oil pressure sensor	21	210	15
Pressure port union	69	700	51
Front and rear bracket x Pump housing	44	440	32
Heat insulator and rear stay x Rear housing	44	440	32
Oil reservoir x Pump housing	9.0	90	78 in.·lbf
Pump assembly set bolt Bolt A	44	440	32
Bolt B	44	440	32
Bolt C	44	440	32
Pressure feed tube x Pump assembly	41 (44)	420 (450)	30 (33)
MANUAL STEERING GEAR			
Engine hanger set bolt	20	200	15
Rack guide spring cap lock nut	36 (49)	365 (500)	26 (36)
Rack end x Rack	62 (83)	630 (850)	46 (61)
Tie rod end lock nut	47	480	35
Engine rear mount bracket set bolt	49	500	36
Engine rear mount bracket x Engine rear mount insulator	64	650	47
No. 3 intermediate shaft assembly x Steering pinion	28	290	21
Manual steering gear assembly set bolt	74	750	54
Front suspension member x Frame Bolt A Bolt B	116 70	1,180 710	86 52
	80	810	59
Engine rear mount insulator x Front suspension member	98	1,000	72
Lower suspension arm x Steering knuckle			
Engine hood x Hinge Tie rod end x Steering knuckle	11 49	110 500	8 36
POWER STEERING GEAR	43	300	30
Engine hanger set bolt	20	200	15
Control valve housing x Rack housing	20	220	15
Rack guide spring cap lock nut	28 (39)	290 (400)	21 (29)
Rack end x Rack	62 (83)	630 (850)	46 (61)
Tie rod end lock nut	47	480	35
Turn pressure tube x Rack housing	11 (13)	110 (130)	8 (9)
-	49	500	36
Engine rear mount bracket set bolt Engine rear mount bracket v Engine rear mount insulator			
Engine rear mount bracket x Engine rear mount insulator	64	650	47

2002 ECHO (RM884U)

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SERVICE SPECIFICATIONS - STEERING

Part tightened	N⋅m	kgf⋅cm	ft-lbf
No. 3 intermediate shaft assembly x Control valve shaft	28	290	21
PS gear assembly set bolt	74	750	54
Dynamic damper (with rack housing heat insulator) set bolt	18	180	13
Rack housing heat insulator set bolt	35	360	26
Front suspension member x Frame Bolt A	116	1,180	86
Bolt B	70	710	52
Engine rear mount insulator x Front suspension member	80	810	59
Lower suspension arm x Steering knuckle	98	1,000	72
Engine hood x Hinge	11	110	8
Tube clamp	7.8	80	69 in.·lbf
Pressure feed and return tube	27 (25)	280 (250)	20 (18)

^{():} For use without SST

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