

SECTION 10 - AIDS FOR MAINTENANCE

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Torque Specifications

DRIVE TRAIN COMPONENTS			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Engine Mounting Through-Bolts	Frame	5.5	40
Engine Mount (Rear)	Frame	2.8	20
Front Differential*	Frame/Diff Bracket	5.5	40
Rear Output Joint Assy	Engine	2.8	20
Bearing Housing/Axle Assy	Axle Housing	5.5	40
Diff Housing Cover***	Diff Housing	2.6	19
Drive Bevel Gear Nut***	Shaft	11-13	79.5-94
Differential Gear Case***	Hub	2.3-3	16.5-22
Hub Nut (Front)	Shaft/Axle (max)	10.4	75
(Rear)	Shaft/Axle (max)	17.5	125
Oil Drain Plug	Front Diff/Rear Dr	0.5	3.5
Oil Fill Plug	Front Diff/Rear Dr	2.2	16
Oil Drain Plug	Engine	2.0	14.5
Inspection Plug	Rear Drive	0.5	3.5
Wheel	Hub	5.5	40
EXHAUST COMPONENTS			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Exhaust Pipe	Engine/Frame	2.8	20
ELECTRICAL COMPONENTS			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Coil*	Head Bracket	1.7	12
Ground Wire	Engine	1.1	8
STEERING COMPONENTS			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Handlebar Block	Steering Post	2.8	20
Steering Post Bearing Housings	Frame	2.8	20
Steering Post Bearing Flange	Frame	2.8	20
Lower Steering Bearing Washer Cap Screw***	Steering Post	5.5	40
Tie Rod End	Knuckle/Steering Post	4.2	30

BRAKE COMPONENTS			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Brake Disc*	Hub	2.1	15
Brake Hose	Caliper	4.2	30
Brake Hose	Master Cylinder	0.8	6
Master Cylinder Cover	Master Cylinder	.03	10 in.-lb
Auxiliary Brake Lever	Footrest	9.7	70
Hydraulic Caliper	Axle Retainer Assy	2.8	20
CHASSIS COMPONENTS			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Footrest	Frame (8 mm)	2.8	20
Footrest	Frame (10 mm)	5.5	40
Reverse Shift Lever*	Frame	2.8	20
SUSPENSION COMPONENTS (Front)			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
A-Arm (All)	Frame	4.8	35
Ball Joint Cap Screw	Knuckle	4.8	35
Shock Absorber	Frame	4.8	35
Shock Absorber	Upper A-Arm	4.8	35
SUSPENSION COMPONENTS (Rear)			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Axle Retainer Assy	Axle Housing	5.5	40
Axle Housing/Hitch	Rear Gear Case	4.8	35
Axle Housing/Hitch	Rear Gear Case (New)	5.5	40
Swing Arms	Axle Housing	4.8	35
Swing Arms**	Frame	4.8	35
Shock Absorber	Axle Housing/Frame	4.8	35
ENGINE/TRANSMISSION			
Part	Part Bolted To	Torque	
		kg-m	ft-lb
Crankcase Half (6 mm)	Crankcase Half	1.0	7
Crankcase Half (8 mm)	Crankcase Half	2.0	14.5
Cylinder Head (Cap Screws)	Crankcase	5.0	36
Cylinder Head (6 mm)	Cylinder	1.0	7
Driven Pulley Nut	Fixed Face	9.5	69
Fixed Driven	Clutch Shaft	9.5	69
Ground Wire	Engine	1.1	8
Magneto Cover	Crankcase	0.9	6.5
Mechanical Water Pump Impeller	Pump Shaft	0.8	6
Recoil Starter	Left-Side Cover	1.2	9
Magneto Rotor Nut	Crankshaft	13	94
Starter Flange	Crankshaft	0.85	6.5
V-Belt Cover	Crankcase	0.9	6.5
Spark Plug	Engine	1.3	9.5

* w/Blue Loctite #243

** w/Red Loctite #271

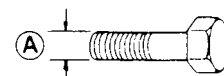
*** w/Green Loctite #609

Torque Conversions

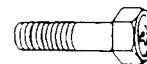
ft-lb	kg-m	ft-lb	kg-m	ft-lb	kg-m	ft-lb	kg-m	ft-lb	kg-m
1	0.1	21	2.9	41	5.7	61	8.4	81	11.2
2	0.3	22	3.0	42	5.8	62	8.6	82	11.3
3	0.4	23	3.2	43	5.8	63	8.7	83	11.5
4	0.6	24	3.3	44	6.1	64	8.9	84	11.6
5	0.7	25	3.5	45	6.2	65	9.0	85	11.8
6	0.8	26	3.6	46	6.4	66	9.1	86	11.9
7	1.0	27	3.7	47	6.5	67	9.3	87	12.0
8	1.1	28	3.9	48	6.6	68	9.4	88	12.2
9	1.2	29	4.0	49	6.8	69	9.5	89	12.3
10	1.4	30	4.2	50	6.9	70	9.7	90	12.5
11	1.5	31	4.3	51	7.1	71	9.8	91	12.6
12	1.7	32	4.4	52	7.2	72	10.0	92	12.8
13	1.8	33	4.6	53	7.3	73	10.1	93	12.9
14	1.9	34	4.7	54	7.5	74	10.2	94	13.0
15	2.1	35	4.8	55	7.6	75	10.4	95	13.1
16	2.2	36	5.0	56	7.7	76	10.5	96	13.3
17	2.4	37	5.1	57	7.9	77	10.7	97	13.4
18	2.5	38	5.3	58	8.0	78	10.8	98	13.6
19	2.6	39	5.4	59	8.2	79	10.9	99	13.7
20	2.8	40	5.5	60	8.3	80	11.1	100	13.8

Tightening Torque (General Bolts)

Type of Bolt	Thread Diameter A (mm)	Tightening Torque	
		kg-m	ft-lb
(Conventional or 4 Marked Bolt)	5	0.2-0.4	1.5-3.0
	6	0.4-0.7	3.0-5.0
	8	1.0-1.6	7.0-11.5
	10	2.2-3.5	16.0-25.5
(7 Marked Bolt)	5	0.3-0.6	2.0-4.5
	6	0.8-1.2	6.0-8.5
	8	1.8-2.8	13.0-20.0
	10	4.0-6.0	29.0-43.5



Conventional Bolt



4 Marked Bolt



7 Marked Bolt

NOTES