

General Specifications

GT380

GT550

GT750

ENGINE

Type	two-stroke	two-stroke	two-stroke
No. cylinders	3	3	3
Displacement (cc)	371	543	738
Bore x stroke (mm)	54 x 54	61 x 62	70 x 64
Compression ratio	7.2 : 1	6.7 : 1	6.7 : 1
Induction timing	piston port	piston port	piston port
Cooling system	Ram Air System	Ram Air System	water-cooled

TRANSMISSION

Clutch type	wet, multi-disc	wet, multi-disc	wet, multi-disc
No. gears	6	5	5
Primary reduction ratio	2.833 : 1	2.242 : 1	1.673 : 1
Final reduction ratio	2.67 : 1	2.500 : 1	3.133 : 1

TRANSMISSION

Gear ratios : 1			
First	2.333	2.846	2.846
Second	1.500	1.736	1.736
Third	1.157	1.363	1.363
Fourth	0.904	1.125	1.125
Fifth	0.782	0.923	0.923
Sixth	0.708	—	—

LUBRICATION

Engine	CCI	CCI	CCI
Transmission	oil bath	oil bath	oil bath

IGNITION

System type	battery and coil	battery and coil	battery and coil
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ELECTRICAL SYSTEM

System voltage	12v	12v	12v
Generator	alternator	alternator	alternator

CHASSIS

Suspension	Telescopic forks, oil-dampened		
Front	Swing arm with hydraulically-dampened springs		
Rear			
Steering angle (r & l)	42°	42°	40°
Caster	61°	61°	63°
Trail (in.)	4.6	4.6	3.74
Wheelbase (in.)	54.3	57.7	57.8
Ground clearance (in.)	5.7	5.7	5.5

OVERALL DIMENSIONS

Weight (dry) (lbs)	377	441	507
Length (in.)	82.3	86.4	87.2
Width (in.)	32.1	32.1	34.0
Height (in.)	44.3	45.7	44.3

TIRES

Front	3.00-19	3.25-19	3.25-19
Rear	3.50-18	4.00-18	4.00-18

Engine Torque Specifications

Part	Torque (ft lbs)
GT380, GT550	
Crankcase bolts	
6 mm	9.4①, 4.4-7.3②
8 mm	14.5①, 9.5-17②
Cylinder head nuts	18-29
Cylinder base nuts	18-29
Crankshaft primary gear nut	36
Rotor bolt	6.6-10
Oil pump	1.5-2.9
Oil pump cover	1.5-2.9
Clutch spring nuts	2.9-5.1
Clutch hub nut	36-43
Starter motor	2.9-5.1
Starter motor cover	1.5-2.9
Oil line banjo bolts	1.8
Breaker cam nut	36
Engine mounting nuts and bolts	23-29

Engine Torque Specs (cont.)

Part	Torque (ft lbs)
Engine mounting plate bolts	10-17
GT 750	
Crankcase bolts	
6 mm	4.3-7.2
8 mm	9.2-16.7
10 mm	18.1-28.9
Cylinder head	
8 mm	13.0-15.9
10 mm	21.7-29.0
Clutch hub nut	29-40
Starter clutch bolt	33-40
Engine mounting nuts and bolts	23-29
Engine mounting plate bolts	10-17

- ① Model GT380
② Model GT550

Clutch Specifications

	GT380, GT550 in. (mm)	GT750 in. (mm)
Friction disc standard thickness	0.138 (3.5)	0.11-0.12 (2.9-3.1)

Clutch Specifications (cont.)

	GT380, GT550 in. (mm)	GT750 in. (mm)
Friction disc wear limit	0.126 (3.2)	0.107 (2.7)
Maximum allowable steel plate warpage	0.012 (0.3)	0.012 (0.3)
Clutch spring standard length	1.15 (38.4)	1.59 (40.4)
Maximum allowable spring collapse	0.055 (1.4)	0.055 (1.4)

General Nuts and Bolts

Bolt Diameter	Torque (ft lbs)	
	Unmarked Bolt	"S" Marked Bolt
5	1.5-2.9	2.2-4.4
6	2.9-5.1	4.4-7.3
8	6.6-10	9.5-17
10	13-20	18-29

Tune-Up Specifications

	Spark Plugs (NGK/ND)	Spark Plug Gap (in./mm)		Breaker Point Gap (in./mm)	Ignition Timing (mm)			Pilot Screw (turns out)	Idle Speed (rpm)	Float Level (in./mm)
		NGK	ND		R	C	L			
GT380J, K	B-7ES/W22ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	2.99	2.93	2.99	1¼	1100	0.96/24.3
GT380L	B-8ES/W24ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	2.40	2.40	2.40	1¼	1100	1.01/25.8
GT380M	B-8ES/W24ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	2.30	2.25	2.30	1¼	1100	1.01/25.8
GT380A	B-8ES/W24ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	2.09	2.05	2.09	1¼	1100	1.01/25.8
GT550J, K	B-7ES/W22ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.37	3.37	3.37	1¼	1100	0.96/24.3
GT550L	B-7ES/W22ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.37	3.37	3.37	1½	1100	1.01/25.8
GT550M, A	B-8ES/W24ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.37	3.37	3.37	1½	1100	1.01/25.8
GT750J, K	B-7ES/W22ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.64	3.42	3.64	1½	1000	1.07/27.3
GT750L	B-6ES/W20ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.64	3.42	3.64	¾	1000	1.08/27.6
GT750M	B-8ES/W24ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.62	3.42	3.62	¾	1000	1.08/27.6
GT750A	B-8ES/W24ES	0.028-0.032/0.7-0.8	0.024-0.028/0.6-0.7	0.012-0.016/0.3-0.4	3.63	3.42	3.63	¾	1000	1.08/27.6

Carburetor Specifications^①

<i>Model</i>	<i>Type</i>	<i>Main Jet</i>	<i>Needle Jet</i>	<i>Needle</i> ②	<i>Throttle Slide</i>	<i>Pilot Jet</i>
GT380J, K	VM24SC	80	O-4	4DH7-2	3.0	22.5
GT380L, M, A	VM24SC	80	O-2	4DH7-2	3.0	25
GT550J, K	VM28SC	R&L : 95 C : 92.5	O-5	5DH21-3	2.5	27.5
GT550L, M, A	VM28SC	R&L : 97.5 C : 95	P-0	5DH21-4	2.5	25
GT750J, K	VM32SC	R&L : 102.5 C : 100	R&L : P-4 C : P-3	5F16-3	2.5	30
GT750L	BS40	R&L : 110 C : 107.5	Z-0	4DN18-3	120	47.5
GT750M, A	BS40	R&L : 110 C : 107.5	Z-0	4DN18-4	110	45

① For float level and pilot screw settings, refer to "Tune-Up"

② The last number refers to needle clip position, counting from the top groove

Coolant Solution

<i>Operation in Air Temperature Below (°F)</i>	<i>Mixing Ratio of Antifreeze (%)</i>	<i>Amt. of Antifreeze/ Distilled Water for 4.5 ltr (9.5 pt)</i>	
		<i>(ltr)</i>	<i>(pt)</i>
14	30	1.35/3.15	2.90/6.60
5	35	1.60/2.90	3.40/6.10
—4	40	1.80/2.70	3.80/5.70
—13	45	2.00/2.50	4.20/5.30
—24	50	2.25/2.25	4.75/4.75

Maintenance Data

	GT380J-K	GT380L-A	GT550J-L	GT550M-A	GT750J-K	GT750L-A
Gas Tank (gal)	4.0	4.0	4.0	4.0	4.5	4.5
Oil Tank (pt/cc)	2.7/1280	2.5/1190	2.5/1190	2.5/1190	3.8/1800	3.8/1800
Transmission (pt/cc)	3.0/1420	3.2/1500	3.2/1500	3.2/1500	4.7/2200	4.7/2200
Front Forks (oz/cc) @ leg	7.1/210	4.9/145	7.9/235	5.4/160	7.9/235	5.4/160
Chain freeplay (in./mm)	0.6-0.8/15-20	0.6-0.8/15-20	0.6-0.8/15-20	0.6-0.8/15-20	0.6-0.8/15-20	0.6-0.8/15-20
Tire pressure (psi) front	26	26	23①	23①	26②	26②
rear	28①	28①	26②	26②	28③	28③
Cooling System (pt/cc)	—	—	—	—	9.5/4500	9.5/4500

① Add 3 psi for two-up or high-speed

② Add 2 psi for two-up or high-speed

③ Add 4 psi for two-up or high-speed

Lubrication

ENGINE

Suzuki recommends SAE 30W CCI oil for engine lubrication. If Suzuki CCI oil is not available, one of the types listed below will suffice.

American	Permalube SAE 30W
Atlantic	Atlantic Aviation SAE 30W
Castrol	Heavy Duty SAE 30W
Gulf	Gulfpride SAE 30W
Humble	ESSO, ENCO, Humble - SAE 30W
Kendall	Dual Action, Super Duty SAE 30W
Mobil	Mobil A SAE 30W
Phillips	Sixty-Six SAE 30W
Pure	Super Duty Purelube SAE 30W
Richfield	Richlube Premium SAE 30W
Shell	Shell X—100 SAE 30W
Texaco	Havoline SAE 30W

GEARBOX

The gearbox (transmission) and clutch are lubricated by an oil bath. SAE 20W/40 is recommended for all models.