TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPECS - 16Y

Date: May 30, 1980

Read and Initial

Manager _____

Parts Mgr. _____

Service Mgr. _____

Mechanics _____

MODEL: RS175T

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN:	
	EX:	
Tappet Clearance or Valve Clearance	IN:	
	EX:	
Valve Guide--Valve Stem Clearance	IN:	
	EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN:	
	OUT:	
Valve Spring Tension	INN:	
	OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT		
Cam Height	IN:	
	EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure	- - -	- - -
Max. Difference Between Cylinders	- - -	- - -
Piston--Cylinder Clearance	0.06-0.07mm	0.12mm
Cylinder Bore	62.000-62.015mm	62.070mm
Piston Dia./ Measuring Point	61.935-61.950mm/26mm	61.880mm
Cylinder Warpage	- - -	0.05mm
Piston ring free end gap	approx. 6.5mm	5.2mm
Piston ring End Gap	0.20-0.40mm	0.85mm
Piston ring--Grove Clearance	0.02-0.06mm	- - -

ITEM	STANDARD	LIMIT
Piston Pin Bore I.D.	15.998-16.006mm	16.030mm
Piston Pin O.D.	15.995-16.000mm	15.980mm
CRANKSHAFT		
Con-rod Small End Hole	21.003-21.011mm	21.040mm
	- - -	3.0mm
Big End Side Clearance	- - -	- - -
Con-rod Big End Wear	- - -	- - -
Crankshaft Runout	- - -	0.05mm
Crankshaft Web to Web Width	56.0 ± 0.1mm	- - -
OIL PUMP		
Oil Pressure	- - -	- - -
Tip Clearance	- - -	- - -
Outer Rotor Clearance	- - -	- - -
Side Clearance	- - -	- - -
Oil Pump Reduction Ratio	- - -	- - -
CCI Pump Discharge Rate	- - -	- - -
CLUTCH		
Drive Plate Thickness	2.9-3.1mm	2.6mm
Drive Plate Warpage	- - -	0.2mm
Driven Plate Thickness	1.6 ± 0.06mm	- - -
Driven Plate Warpage	- - -	0.1mm
Drive Plate Claw Width	11.8-12.0mm	11.0mm
Clutch Spring Free Length	29.3mm	30.7mm
Pri. Drive--Driven Gear Backlash	0.02-0.07mm	0.10mm
TRANSMISSION		
Primary Reduction	2.761 (58/21)	- - -
Final Reduction	3.833 (46/12)	- - -
Gear Ratios, Low/2nd	3.090 (34/11) / 2.214 (31/14)	
3rd/4th	1.647 (28/17) / 1.300 (26/20)	
5th/Top	1.045 (23/22) / 0.875 (21/24)	
Gear Backlash 1st/2nd	- - -	- - -
3rd/4th	- - -	- - -
5th/6th	- - -	- - -
Shift Fork--Grove Clearance	0.05-0.25mm	0.45mm
Shift Fork Groove Width	4.45-4.55mm	- - -
Shift Fork Thickness	4.30-4.40mm	
Drive Chain Size	D.I.D. 520UB, 106 links	
21 Pin Length	317.5mm	324mm
Countershaft length (Low-2nd)	91.8-91.9mm	
Drive Chain Slack	25-35mm	

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	1500 ± 150 rpm	
Carburetor Type	MIKUNI VM30SS	
I.D. No.	41530	
Bore Size	30mm	
Float Height	7.8 ± 0.5mm	
Fuel Level	- - -	
Air Screw	1 1/2	
Pilot Screw	- - -	
Pilot Air Jet	- - -	
Pilot Jet	#30	
Cut Away	2.5	
Jet Needle	5DP74-2	
Needle Jet	R-4	
Secondary Air Jet	2.5	
Pilot Outlet	0.8	
Main Jet	#150	
ELECTRICAL		
Ignition	SUZUKI "PEI"	
Ignition Timing	17.5° + 2° B.T.D.C. @ 8000 rpm	
Firing Order	- - -	
Spark Plug	NGK B9ES or ND W27ES	
Spark Plug Gap	0.6-0.8mm	
Contact Point Gap	- - -	
Dwell Angle	- - -	
Spark Performance	Over 8mm	
Condensor Capacity	- - -	
Ignition Coil Resistance (Pri.)	B/W to W/Bl approx. 0-1 ohm	
Ignition Coil Resistance (Sec.)	Plug cap to B/W or W/Bl approx. 10-11Kohms	
Magneto Coil Resistances	R/W to B/W approx 180-240 ohms	
	R/W to B/R approx 20-30 ohms	
	Y/R to B/W approx 0-1 ohm	
Exciter Coil Resistance	- - -	
Pulser Coil Resistance	- - -	
Charging Coil Resistance	- - -	
Lighting Coil Output	Over 5.5V @ 2500rpm/under 8.0V @ 8000rpm	
Battery	- - -	
Specific Gravity	- - -	
Regulated Amperage	- - -	
Regulated Voltage	- - -	
Fuse Capacity	- - -	

ITEM	STANDARD	LIMIT
Headlight (Low/High)	6V 15W/15W	
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure	- - -	
Tail light/Stop light	6V 5W/---	
Turn Signal Bulbs	- - -	
CHASSIS		
Axle Runout (Front/Rear)	- - -	0.25mm
Brake Drum I.D.	Front: - - -	130.7mm
	Rear: - - -	120.7mm
Brake Lining Thickness	Front: - - -	1.5mm
	Rear: - - -	1.5mm
Brake Disc Thickness (Front & Rear)	- - -	- - -
Master Cylinder Cylinder Bore	Front: - - -	- - -
	Rear: - - -	- - -
Master Cylinder Piston Diameter	Front: - - -	- - -
	Rear: - - -	- - -
Brake Caliper Cylinder Bore	Front: - - -	- - -
	Rear: - - -	- - -
Brake Caliper Piston Dia.	Front: - - -	- - -
	Rear: - - -	- - -
Wheel Rim Runout (Radial & Axial)	- - -	2.0mm
Tire Size	Front: 3.00-21-4PR	- - -
	Rear: 4.10-18-4PR	- - -
Tire Tread Depth	Front: - - -	4.0mm
	Rear: - - -	4.0mm

Tire Pressure	FRONT		REAR	
	SOLO	DUAL	SOLO	DUAL
Normal Riding	14psi	- - -	14psi	- - -
Continuous High Speed Riding	- - -	- - -	- - -	- - -

Fork Spring Free Length	- - -	571mm
Swinging Arm Pivot Shaft Runout	- - -	0.3mm
FUEL & OILS		
Fuel Type	Premium	
Engine Oil Type	CCI Super 2 or equivalent	
Engine Oil Capacity	20:1 fuel/oil ratio premix	
Transmission Oil Type/Cap	SAE 20W/40 change: 800ml overhaul: 900ml	
Front Fork Air Pressure	- - -	
Fork Oil Type/Cap./Level	High quality SAE 10 fork oil or A.T.F./ 284ml/240mm	

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPECS - 16Z
Date: May 30, 1980
Read and Initial
Manager _____
Parts Mgr. _____
Service Mgr. _____
Mechanics _____

MODEL: RS250T
SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN:	
	EX:	
Tappet Clearance or Valve Clearance	IN:	
	EX:	
Valve Guide--Valve Stem Clearance	IN:	
	EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN:	
	OUT:	
Valve Spring Tension	INN:	
	OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT	IN:	
Cam Height	EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure	---	---
Max. Difference Between Cylinders	---	---
Piston--Cylinder Clearance	0.06 - 0.07mm	0.12mm
Cylinder Bore	67.000 - 67.015mm	67.070mm
Piston Dia./Measuring Point	66.935 - 66.950mm/22mm	66.880mm
Cylinder Warpage	---	0.05mm
Piston ring free end gap	Approx. 6.5mm	5.2mm
Piston ring End Gap	0.2 - 0.4mm	0.85mm
Piston ring--Grove Clearance	0.01 - 0.05mm	---

ITEM	STANDARD	LIMIT
Piston Pin Bore I.D.	17.998 - 18.006mm	18.030mm
Piston Pin O.D.	17.995 - 18.000mm	17.980mm
CRANKSHAFT		
Con-rod Small End Hole	23.003 - 23.011mm	23.040mm
Con-rod Deflection	---	3.0mm
Big End Side Clearance	---	---
Con-rod Big End Wear	---	---
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	62.0 ± 0.1mm	---
OIL PUMP		
Oil Pressure	---	---
Tip Clearance	---	---
Outer Rotor Clearance	---	---
Side Clearance	---	---
Oil Pump Reduction Ratio	---	---
CCI Pump Discharge Rate	---	---
CLUTCH		
Drive Plate Thickness	2.9 - 3.1mm	2.6mm
Drive Plate Warpage	---	0.2mm
Driven Plate Thickness	2.0 ± 0.06mm	---
Driven Plate Warpage	---	0.1mm
Drive Plate Claw Width	15.8 - 16.0mm	15.0mm
Clutch Spring Free Length	40.5mm	38.5mm
Pri. Drive--Driven Gear Backlash	0.02 - 0.07mm	0.10mm
TRANSMISSION		
Primary Reduction	2.727 (60/22)	
Final Reduction	4.000 (52/13)	
Gear Ratios, Low/2nd	2.384 (31/13) / 1.750 (28/16)	
3rd/4th	1.352 (23/17) / 1.095 (23/21)	
5th/Top	0.904 (19/21) / 0.760 (19/25)	
Gear Backlash 1st/2nd	---	
3rd/4th	---	
5th/6th	---	
Shift Fork--Grove Clearance	0.2 - 0.4mm	0.6mm
Shift Fork Groove Width	4.25 - 4.35mm	---
Shift Fork Thickness	3.95 - 4.05mm	---
Drive Chain Size	Takasago RK520SU	110 links
21 Pin Length	317.5mm	324mm
Drive Chain Slack	25 - 35mm	

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	1500 ± 150 rpm	
Carburetor Type	MIKUNI VM36SS	
I.D. No.	40610	
Bore Size	36mm	
Float Height	10.7 ± 0.5mm	
Fuel Level	- - -	
Air Screw	1¼	
Pilot Screw	- - -	
Pilot Air Jet	- - -	
Pilot Jet	#37.5	
Cut Away	2.0	
Jet Needle	6DH20-2	
Needle Jet	P-8	
Secondary Air Jet	2.5	
Pilot Outlet	0.6	
Main Jet	#260	
ELECTRICAL		
Ignition	SUZUKI "PEI"	
Ignition Timing	13.5° ± 2° B.T.D.C. @ 6000rpm	
Firing Order	- - -	
Spark Plug	NGK B9ES or ND W27ES	
Spark Plug Gap	0.6 - 0.8mm	
Contact Point Gap	- - -	
Dwell Angle	- - -	
Spark Performance	Over 8mm	
Condensor Capacity	- - -	
Ignition Coil Resistance (Pri.)	B/W-W/Bl approx 0-1 ohm	
Ignition Coil Resistance (Sec.)	Plug cap-B/W or W/Bl approx 10-11K ohms	
Magneto Coil Resistances	B/R - B/W approx 195-245 ohms	
	R/W - B/R approx 35-45 ohms	
	Y/R - B/W approx 0-2 ohms	
Exciter Coil Resistance	- - -	
Pulser Coil Resistance	- - -	
Charging Coil Resistance	- - -	
Lighting Coil Output	Over 5.5V @ 2500rpm/under 8.0V @ 8000rpm	
Battery	- - -	
Specific Gravity	- - -	
Regulated Amperage	- - -	
Regulated Voltage	- - -	
Fuse Capacity	- - -	

ITEM	STANDARD	LIMIT
Headlight (Low/High)	6V 15W/15W	
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure	- - -	
Tail light/Stop light	6V 5W/-	
Turn Signal Bulbs	- - -	
CHASSIS		
Axle Runout (Front/Rear)	- - -	.25mm
Brake Drum I.D.	Front:- - -	130.7mm
	Rear: - - -	150.7mm
Brake Lining Thickness	Front:- - -	1.5mm
	Rear: - - -	1.5mm
Brake Disc Thickness (Front & Rear)	- - -	- - -
Master Cylinder Cylinder Bore	Front:- - -	- - -
	Rear: - - -	- - -
Master Cylinder Piston Diameter	Front:- - -	- - -
	Rear: - - -	- - -
Brake Caliper Cylinder Bore	Front:- - -	- - -
	Rear: - - -	- - -
Brake Caliper Piston Dia.	Front:- - -	- - -
	Rear: - - -	- - -
Wheel Rim Runout (Radial & Axial)	- - -	2.0mm
Tire Size	Front:3.00 - 21 - 4PR	- - -
	Rear: 5.10 - 18 - 4PR	- - -
Tire Tread Depth	Front:- - -	4.0mm
	Rear: - - -	4.0mm

Tire Pressure	FRONT		REAR	
	SOLO	DUAL	SOLO	DUAL
Normal Riding	11 psi	- - -	11 psi	- - -
Continuous High Speed Riding	- - -	- - -	- - -	- - -

Fork Spring Free Length	- - -	571mm
Swinging Arm Pivot Shaft Runout	- - -	0.3mm
FUEL & OILS		
Fuel Type	Premium	
Engine Oil Type	CCI Super 2 or equivalent	
Engine Oil Capacity	20:1 fuel/oil ratio premix	
Transmission Oil Type/Cap	SAE 20W/40 / chg 800 ml ovhl 900 ml	
Front Fork Air Pressure	---	---
Fork Oil Type/Cap./Level	High quality SAE 10 fork oil or A.T.F./ 248ml/ 220mm	

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPEC-17A
Date: 6-12-81
Read and Initial

Manager _____
Parts Mgr. _____
Service Mgr. _____
Mechanics _____

MODELS: FA50X & FA50MX

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN: _____ EX: _____	
Tappet Clearance or Valve Clearance	IN: _____ EX: _____	
Valve Guide--Valve Stem Clearance	IN: _____ EX: _____	
Valve Guide I.D. (IN/EX)	_____	
Valve Stem O.D.	_____	
Valve Stem Deflection (IN & EX)	_____	
Valve Head Thickness (IN & EX)	_____	
Valve Seat Width (IN/EX)	_____	
Valve Head Radial Runout (IN & EX)	_____	
Valve Spring Free Length	INN: _____ OUT: _____	
Valve Spring Tension	INN: _____ OUT: _____	
Rocker Arm I.D. (IN & EX)	_____	
Rocker Arm Shaft O.D. (IN & EX)	_____	
CAMSHAFT		
Cam Height	IN: _____ EX: _____	
Camshaft--Journal Clearance (IN & EX)	_____	
Camshaft Journal I.D. (IN & EX)	_____	
Camshaft Journal O.D. (IN & EX)	_____	
Camshaft Deflection (IN & EX)	_____	
Cam Chain 20 Pitch Length	_____	
PISTON/RING/CLYINDER		
Compression Pressure	_____	
Max. Difference Between Cylinders	_____	
Piston--Cylinder Clearance	0.55-0.85mm	0.120mm
Cylinder Bore	41.000-41.015mm	41.065mm
Piston Dia./ Measuring Point	40.930-40.945mm @23mm	40.880
Cylinder Warpage	---	0.05mm
Piston ring free end gap	R:Approx4.5mm T:Approx5.0mm	3.6mm 4.0mm
Piston ring End Gap	0.10-0.25mm	0.75mm
Piston ring--Grove Clearance	0.020-0.060mm	
Piston Pin Bore I.D.	11.998-12.006mm	12.030mm
Piston Pin O.D.	11.996-12.000mm	11.980mm
CRANKSHAFT		
Con-rod Small End Hole	16.003-16.011mm	16.040mm
Big End Side Clearance		
Con-rod Big End Wear		
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	40.0 ± 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio	7.000 (14/2)	
CCI Pump Discharge Rate	0.97-1.14ml @2000rpm for 6 minutes	
CLUTCH		
Clutch Wheel ID	87.00-87.15mm	87.40mm
Clutch Shoe OD	86.9-87.0mm	No groove at any part.
Drive Plate Claw Width		
Clutch Spring Free Length	below 28mm	over 28mm
Pri. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	1.000	
Final Reduction	3.564 3.286	FA50 FA50M
Gear Ratios, Low/2nd	Chain: 2.384 (31/13)	
3rd/4th	Gear: 2.333 (56/14)	FA50
5th/Top	Gear: 2.636 (58/22)	FA50M
Gear Backlash 1st/2nd	_____	
3rd/4th	_____	
5th/6th	_____	
Shift Fork--Grove Clearance	_____	
Shift Fork Groove Width		
Shift Fork Thickness		
Drive Chain Size	DID270H 64 links	
21 Pin Length	170mm	173.7mm

ITEM	STANDARD	LIMIT
CARBURETOR	FA50	FA50M
Idle RPM	1500 ± 150 rpm	
Carburetor Type	Mikuni VM12SH	
I.D. No.	02340	02370
Bore Size	12mm	
Float Height	22.4 ± 1.0mm	
Fuel Level		
Air Screw	1 3/4	
Pilot Screw		
Pilot Air Jet		
Pilot Jet	#15	
Cut Away	2.0	
Jet Needle	3F13-3	3D18
Needle Jet	E6	
Secondary Air Jet		
Pilot Outlet	0.7	
Main Jet	77.5	
ELECTRICAL		
Ignition	Suzuki "PEI"	
Ignition Timing	25° ± 2° BTDC @4000rpm	
Firing Order		
Spark Plug	NGK BP4HA or ND W14FP-UL	
Spark Plug Gap	0.6-0.8mm	
Contact Point Gap		
Dwell Angle		
Spark Performance	Over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)	B/Y-Ground Approx. 0-1ohm	
Ignition Coil Resistance (Sec.)	PlugCap-Ground approx 16-18k ohms	
Pri. Ignition Coil Resistance		
Magneto Coil Resistance	Y/R-W/R Approx. 0-1ohm	
	W/R-B/W Approx. 0-1ohm	
	Y/R-B/W Approx. 0-1ohm	
	R/B-B/W Approx. 90-110 ohm	
	R/B-B/R Approx. 90-110 ohm	
Lighting Coil Output	Above 5.5V at 2300rpm Below 8.7V at 8000rpm	
Battery	6N2-2A-4	
Specific Gravity	1.28 @20°C	
Regulated Amperage	Below 2.5A @8000rpm	
Regulated Voltage		
Fuse Capacity	(1) 10A	

ITEM	STANDARD	LIMIT
Headlight (Low/High)	6V20w/20w	
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure	6V1.5w/3w/1.7w	
Tail light/Stop light	6V5.3w/17w	
Turn Signal Bulbs	6V17w	
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: ---	80.5mm
	Rear: ---	80.5mm
Brake Lining Thickness	Front: ---	1.5mm
	Rear: ---	1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front:	
	Rear:	
Master Cylinder Piston Diameter	Front:	
	Rear:	
Brake Caliper Cylinder Bore	Front:	
	Rear:	
Brake Caliper Piston Dia.	Front:	
	Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 2.25 4PR	---
	Rear: 2.25 4PR	---
Tire Tread Depth	Front: ---	1.6mm
	Rear: ---	1.6mm

Tire Pressure	FRONT		REAR	
	SOLO	DUAL	SOLO	DUAL
Normal Riding	21 psi		28 psi	
Continuous High Speed Riding				

Fork Spring Free Length	80.2mm	---
Engine Mount Pivot Shaft Runout	---	0.6mm
FUEL & OILS		
Fuel Type	Low-lead or Unleaded	
Engine Oil Type	Suzuki CCI Super 2	
Engine Oil Capacity	CCI Tank: 0.7L	
Transmission Oil Type/Cap	SAE20w/40/chg500ml/ovrhl 550ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level		

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPECS-17C
Date: 6-12-81
Read and Initial
Manager
Parts Mgr.
Service Mgr.
Mechanics

MODEL: FS50X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN: EX:	
Tappet Clearance or Valve Clearance	IN: EX:	
Valve Guide--Valve Stem Clearance	IN: EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN: OUT:	
Valve Spring Tension	INN: OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT		
Cam Height	IN: EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure		
Max. Difference Between Cylinders		
Piston--Cylinder Clearance	0.065-0.075mm	0.120mm
Cylinder Bore	41.000-41.015mm	41.065mm
Piston Dia./ Measuring Point	40.930-40.945mm@23mm	40.880mm
Cylinder Warpage	----	0.05mm
Piston ring free end gap	1st:3mm 2nd:4.5mm	2.6mm 3.0mm
Piston ring End Gap	0.10-0.25mm	0.75mm
Piston ring--Grove Clearance	0.020-0.060mm	---

ITEM	STANDARD	LIMIT
Piston Pin Bore I.D.	11.998-12.006mm	12.030mm
Piston Pin O.D.	11.996-12.000mm	11.980mm
CRANKSHAFT		
Con-rod Small End Hole	16.003-16.011mm	16.040mm
Big End Side Clearance		
Con-rod Big End Wear		
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	40.0 ± 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio	7.00 (14/2)	
CCI Pump Discharge Rate	0.97-1.14ml for 6 min. @2000 RPM	
CLUTCH		
CLUTCH WHEEL ID LOW	87.00-87.15mm	87.40mm
HIGH	105.00-105.15mm	105.50mm
CLUTCH SHOE OD LOW	---	NO GROOVE AT
HIGH	---	ANY PART
Clutch Spring Free Length Low: High:		28mm 33mm
Pri. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	1.000	---
Final Reduction	7.530	
Gear Ratios, Low/2nd 3rd/4th 5th/Top	2.137(62/29)1.421(54/38)	
Gear Backlash 1st/2nd 3rd/4th 5th/6th		
Shift Fork--Grove Clearance		
Shift Fork Groove Width		
Shift Fork Thickness		
Drive Chain Size	DID 270H 64 Links	
21 Pin Length		173.7mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	1600 ± 150 RPM	
Carburetor Type	MIKUNI VM12SH	
I.D. No.	02510	
Bore Size	12mm	
Float Height	22.4 ± 1.0mm	
Fuel Level		
Air Screw	1 3/4	
Pilot Screw		
Pilot Air Jet		
Pilot Jet	#15	
Cut Away	2.0	
Jet Needle	3F13-3	
Needle Jet	E-6	
Secondary Air Jet		
Pilot Outlet	0.7	
Main Jet	#77.5	
ELECTRICAL		
Ignition		
Ignition Timing	$20^0 \pm 2^0$ BTDC@4000 RPM	
Firing Order		
Spark Plug	NGK BP4HA or ND W14FP-UL	
Spark Plug Gap	0.6-0.8mm	
Contact Point Gap		
Dwell Angle		
Spark Performance	Over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)		
Ignition Coil Resistance (Sec.)		
Pri. Ignition Coil Resistance		
MAGNETO COIL RESISTANCE	B/R-B/W Approx.290-330 ohms	
	R/B-B/W Approx.0-2 ohms	
	W/R-B/W Approx.0-1 ohm	
	Y/R-B/W Approx.0-1 ohm	
Charging Coil Resistance		
Lighting Coil Output		
Battery	6V14.4KC	
Specific Gravity	1.26 @20^0C	
Regulated Amperage		
Regulated Voltage	Above 5.5V at 4000RPM Below 8.5V at 8000RPM	
Fuse Capacity	(1) 10A	

ITEM	STANDARD	LIMIT
Headlight (Low/High)	6V20W/20W	
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure	6V1.5w/1.7w/3w	
Tail light/Stop light	6V5.3w/17w	
Turn Signal Bulbs	6V17w	
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: ---	80.5mm
	Rear: ---	80.5mm
Brake Lining Thickness	Front: ---	1.5mm
	Rear: ---	1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front:	
	Rear:	
Master Cylinder Piston Diameter	Front:	
	Rear:	
Brake Caliper Cylinder Bore	Front:	
	Rear:	
Brake Caliper Piston Dia.	Front:	
	Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 2.75-10 2PR	---
	Rear: 2.75-10 2PR	---
Tire Tread Depth	Front: ---	1.6mm
	Rear: ---	1.6mm
Tire Pressure	FRONT: SOLO / DUAL; REAR: SOLO / DUAL	
Normal Riding	18 psi / 25 psi	
Continuous High Speed Riding		
Fork Spring Free Length	---	214.0mm
Swinging Arm Pivot Shaft Runout	---	0.6mm
FUEL & OILS		
Fuel Type	Unleaded or Low Lead	
Engine Oil Type	Suzuki CCI Super 2	
Engine Oil Capacity	CCI Tank: 1.2L	
Transmission Oil Type/Cap	SAE20w/40, chg.800ml/ovrh1850Ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level	HIGH QUALITY SAE#10 85 ML/190mm	

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPEC-17D
Date: 6-12-81
Read and Initial

Manager _____
Parts Mgr. _____
Service Mgr. _____
Mechanics _____

MODEL FZ50X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN: ____ EX: ____	
Tappet Clearance or Valve Clearance	IN: ____ EX: ____	
Valve Guide--Valve Stem Clearance	IN: ____ EX: ____	
Valve Guide I.D. (IN/EX)	____	
Valve Stem O.D.	____	
Valve Stem Deflection (IN & EX)	____	
Valve Head Thickness (IN & EX)	____	
Valve Seat Width (IN/EX)	____	
Valve Head Radial Runout (IN & EX)	____	
Valve Spring Free Length	INN: ____ OUT: ____	
Valve Spring Tension	INN: ____ OUT: ____	
Rocker Arm I.D. (IN & EX)	____	
Rocker Arm Shaft O.D. (IN & EX)	____	
CAMSHAFT		
Cam Height	IN: ____ EX: ____	
Camshaft--Journal Clearance (IN & EX)	____	
Camshaft Journal I.D. (IN & EX)	____	
Camshaft Journal O.D. (IN & EX)	____	
Camshaft Deflection (IN & EX)	____	
Cam Chain 20 Pitch Length	____	
PISTON/RING/CLYINDER		
Compression Pressure	____	
Max. Difference Between Cylinders	____	
Piston--Cylinder Clearance	0.070-0.080mm	0.120mm
Cylinder Bore	41.000-41.015mm	41.060
Piston Dia./ Measuring Point	40.925-50.940mm @23mm	40.880
Cylinder Warpage	---	0.05mm
Piston ring free end gap	R:Approx4.5mm T:Approx5.0mm	3.6mm 4.0mm
Piston ring End Gap	0.10-0.25mm	0.75mm
Piston ring--Grove Clearance	0.020-0.060mm	---
Piston Pin Bore I.D.	11.998-12.006mm	12.030mm
Piston Pin O.D.	11.996-12.000mm	11.980mm
CRANKSHAFT		
Con-rod Small End Hole	16.003-16.011mm	16.040mm
Big End Side Clearance	____	
Con-rod Big End Wear	____	
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	40.0 ± 0.1 mm	---
OIL PUMP		
Oil Pressure	____	
Tip Clearance	____	
Outer Rotor Clearance	____	
Side Clearance	____	
Oil Pump Reduction Ratio	7.000 (14/2)	
CCI Pump Discharge Rate	1.02-1.26ml @2000rpm for 6 minutes	
CLUTCH		
Clutch Wheel I.D.	Low: 87.00-87.15mm High: 105.00-105.15mm	87.40mm 105.50mm
Clutch Shoe O.D.	Low: 86.9-87.0mm High: 104.7-104.8mm	No Groove AT ANY PART
Drive Plate Claw Width	____	
Clutch Spring Free Length	Low: 28mm High: 33mm	
Pri. Drive--Driven Gear Backlash	____	
TRANSMISSION		
Primary Reduction	1.000	
Final Reduction	8.696 (31/13 x 62/17)	
Gear Ratios, Low/2nd 3rd/4th 5th/Top	2.137(62/29)1.421(54/38)	
Gear Backlash 1st/2nd 3rd/4th 5th/6th	____	
Shift Fork--Grove Clearance	0.05-0.10mm	0.15mm
Shift Fork Groove Width	____	
Shift Fork Thickness	____	
Drive Chain Size	DID 270 H 64 links	
21 Pin Length	170.0mm	173.0mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	1500 ± 150rpm	
Carburetor Type	Mikuni VM14SH	
I.D. No.	02421	
Bore Size	14mm	
Float Height	22.4 ± 1.0mm	
Fuel Level		
Air Screw	1 3/4	
Pilot Screw		
Pilot Air Jet		
Pilot Jet	#15	
Cut Away	2.0	
Jet Needle	3D13-3	
Needle Jet	E-2	
Secondary Air Jet		
Pilot Outlet	0.9	
Main Jet	#57.5	
ELECTRICAL		
Ignition	Suzuki "PEI"	
Ignition Timing	25° ± 2° BTDC @4000rpm	
Firing Order		
Spark Plug	NGK BP4HA or ND W14FP-UL	
Spark Plug Gap	0.6-0.8mm	
Contact Point Gap		
Dwell Angle		
Spark Performance	Over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)	B/Y-Ground Approx. 0-1ohm	
Ignition Coil Resistance (Sec.)	PlugCap-GroundApprox.4-6kohm	
Pri. Ignition Coil Resistance		
High Speed Coil Resistance		
Low Speed Coil Resistance		
Magneto Coil Resistance	B/w-Y Approx. 0.4ohm B/R-R/B Approx. 230ohm	
Charging Coil Resistance	B/W-W/R Approx. 0.75ohm	
Lighting Coil Output	Above 5.5V at 2500rpm Below 8.5V at 8000rpm	
Battery	6N4-2A	
Specific Gravity	1.26 @20°C	
Regulated Amperage		
Regulated Voltage		
Fuse Capacity	(1) 10A	

ITEM	STANDARD	LIMIT
Headlight (Low/High)	6V20w/20w	
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure	6V1.7w/3w	
Tail light/Stop light	6V5.3w/17w	
Turn Signal Bulbs	6V17w	
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: --- Rear: ---	100.7mm 100.7mm
Brake Lining Thickness	Front: --- Rear: ---	1.5mm 1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front: Rear:	
Master Cylinder Piston Diameter	Front: Rear:	
Brake Caliper Cylinder Bore	Front: Rear:	
Brake Caliper Piston Dia.	Front: Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 3.00-12 4PR Rear: 3.00-12 4PR	--- ---
Tire Tread Depth	Front: --- Rear: ---	1.6mm 1.6mm

Tire Pressure	FRONT		REAR	
	SOLO	DUAL	SOLO	DUAL
Normal Riding	18psi		21psi	
Continuous High Speed Riding				

Fork Spring Free Length	---	---
Engine Mount Pivot Shaft Runout	---	0.6mm
FUEL & OILS		
Fuel Type	Low-Lead or Unleaded	
Engine Oil Type	Suzuki CCI Super 2	
Engine Oil Capacity	CCI Tank: 1.2L	
Transmission Oil Type/Cap	SAE20w/40/chg800ml/ovrhl 850ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level		

SUZUKI
TWO STROKE
Service Bulletin

TWO STROKE

Bulletin No.: SPECS-17E
Date: 6/5/81

Read and Initial

Manager .....
Parts Mgr. .....
Service Mgr. .....
Mechanics .....

MODEL: JR50X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN: EX:	
Tappet Clearance or Valve Clearance	IN: EX:	
Valve Guide--Valve Stem Clearance	IN: EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN: OUT:	
Valve Spring Tension	INN: OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT		
Cam Height	IN: EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure		
Max. Difference Between Cylinders		
Piston--Cylinder Clearance	0.065~0.075mm	0.120mm
Cylinder Bore	41.000~41.015mm	41.065mm
Piston Dia./ Measuring Point	40.930~40.945mm @23mm	40.880mm
Cylinder Warpage		0.05
Piston ring free end gap	R:Approx4.5mm T:Approx5.0mm	3.6mm 4.0mm
Piston ring End Gap	0.10~0.25mm	0.75mm
Piston ring--Grove Clearance	0.02~0.06mm	---
Piston Pin Bore I.D.	12.002~12.010mm	12.030mm
Piston Pin O.D.	11.995~12.000mm	11.980mm
CRANKSHAFT		
Con-rod Small End Hole	16.003~16.011mm	16.040mm
Big End Side Clearance		
Con-rod Big End Wear		
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	32 ± 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio	60.95 (53/20 x 23/1)	
CCI Pump Discharge Rate	0.63~0.85ml @2000rpm for 6 minutes	
CLUTCH		
Drive Plate Thickness	2.3~2.5mm	2.0mm
Drive Plate Warpage		
Driven Plate Thickness	1.60 ± 0.08mm	---
Driven Plate Warpage	---	0.15mm
Drive Plate Claw Width	15.65~15.95mm	14.85
Clutch Spring Free Length	---	10.07
Pri. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	2.650 (53/20)	
Final Reduction	2.153 (28/13)	
Gear Ratios, Low/2nd	Drive Position: 2.230(29/13)	
3rd/4th		
5th/Top		
Gear Backlash 1st/2nd		
3rd/4th		
5th/6th		
Shift Fork--Grove Clearance	0.20~0.40mm	0.60mm
Shift Fork Groove Width	6.60~6.70mm	---
Shift Fork Thickness	6.30~6.40mm	---
Drive Chain Size	DID420 or TAKASAGO RK 420 78 links	
21 Pin Length	---	259mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	1500 ± 100 rpm	
Carburetor Type	Mikuni VM12SC	
I.D. No.	04410	
Bore Size	12mm	
Float Height	24.5-25.0mm	
Fuel Level	5.0 ± 0.5mm	
Air Screw	1¼	
Pilot Screw		
Pilot Air Jet		
Pilot Jet	#15	
Cut Away	3.0	
Jet Needle	3E3-3	
Needle Jet	E-4	
Secondary Air Jet		
Pilot Outlet	0.7	
Main Jet	#52.5	
ELECTRICAL		
Ignition	Magneto	
Ignition Timing	24° ± 2° BTDC	
Firing Order		
Spark Plug	NGKBP4H or ND W14FP	
Spark Plug Gap	0.6-0.8mm	
Contact Point Gap	0.30-0.40mm	
Dwell Angle	215°	
Spark Performance	Over 8mm	
Condensor Capacity	0.18 ± 0.02uf	
Ignition Coil Resistance (Pri.)	B-Ground Approx. 1-2ohm	
Ignition Coil Resistance (Sec.)	PlugCap-B Approx. 4-6Kohm	
Pri. Ignition Coil Resistance		
MAGNETO Coil Resistance	B-Ground Approx 0-1ohm	
Low Speed Coil Resistance		
Exciter Coil Resistance		
Pulser Coil Resistance		
Charging Coil Resistance		
Lighting Coil Output		
Battery		
Specific Gravity		
Regulated Amperage		
Regulated Voltage		
Fuse Capacity		

ITEM	STANDARD	LIMIT
Headlight (Low/High)		
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure		
Tail light/Stop light		
Turn Signal Bulbs		
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: ---	90.7mm
	Rear: ---	90.7mm
Brake Lining Thickness	Front: ---	1.5mm
	Rear: ---	1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front:	
	Rear:	
Master Cylinder Piston Diameter	Front:	
	Rear:	
Brake Caliper Cylinder Bore	Front:	
	Rear:	
Brake Caliper Piston Dia.	Front:	
	Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 2.50-10 2 PR	---
	Rear: 2.50-10 2 PR	---
Tire Tread Depth	Front: ---	1.6mm
	Rear: ---	1.6mm
Tire Pressure	FRONT: SOLO / DUAL; REAR: SOLO / DUAL	
Normal Riding	21psi / 21psi	
Continuous High Speed Riding		
Fork Spring Free Length	---	441mm
Swinging Arm Pivot Shaft Runout	---	0.6mm
FUEL & OILS		
Fuel Type	Low-lead or Unleaded	
Engine Oil Type	Suzuki CC1 Super 2	
Engine Oil Capacity	CC1 Tank 0.3L	
Transmission Oil Type/Cap	SAE 20w/40/chg450ml/ovrhl 500ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level		

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPECS-171
Date: 6/5/81
Read and Initial

Manager
Parts Mgr.
Service Mgr.
Mechanics

MODEL: RM125X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN: --- EX: ---	
Tappet Clearance or Valve Clearance	IN: EX:	
Valve Guide--Valve Stem Clearance	IN: EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN: OUT:	
Valve Spring Tension	INN: OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT		
Cam Height	IN: EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure		
Max. Difference Between Cylinders		
Piston--Cylinder Clearance	0.055-0.065mm	0.120mm
Cylinder Bore	54.000-54.015mm	54.060mm
Piston Dia./ Measuring Point	53.940-53.955mm @18mm	53.880mm
Cylinder Warpage	---	0.05mm
Piston ring free end gap	R apprx 7.0mm/R apprx 7.0mm	5.6mm
Piston ring End Gap	1.2-1.5mm	2.0mm
Piston ring--Grove Clearance	R .010-.060mm	---
Piston Pin Bore I.D.	14.002-14.010mm	14.030mm
Piston Pin O.D.	13.995-14.000mm	13.980mm
CRANKSHAFT		
Con-rod Small End Hole	18.003-18.011mm	18.040mm
Big End Side Clearance		
Con-rod Big End Wear		
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	56.0 ± 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio		
CCI Pump Discharge Rate		
CLUTCH		
Drive Plate Thickness	2.7-2.9mm	2.4mm
Drive Plate Warpage		
Driven Plate Thickness	1.6 ± 0.1mm	---
Driven Plate Warpage	---	.01mm
Drive Plate Claw Width	11.8-12.0mm	11.3mm
Clutch Spring Free Length	---	36.3mm
Prl. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	3.157 (60/19)	---
Final Reduction	4.250 (51/12)	---
Gear Ratios, Low/2nd	2.333(28/12), 1.750(28/16)	---
3rd/4th	1.41(24/17), 1.190(25/21)	---
5th/Top	1.045(23/22), 0.956(22/23)	---
Gear Backlash 1st/2nd		
3rd/4th		
5th/6th		
Shift Fork--Grove Clearance	0.05-0.25mm	0.45mm
Shift Fork Groove Width	4.45-4.55mm, 5.45-5.55mm	---
Shift Fork Thickness	4.30-4.40mm, 5.30-5.40mm	---
Drive Chain Size	DAIDO 520DS, Takasago 520k	112 Links
21 Pin Length	---	332mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	---	
Carburetor Type	Mikuni VM32SS	
I.D. No.	14100	
Bore Size	32mm	
Float Height	12.5 ± 0.5	
Fuel Level	---	
Air Screw	1½	
Pilot Screw	---	
Pilot Air Jet	---	
Pilot Jet	30	
Cut Away	2.0	
Jet Needle	6FP35-2	
Needle Jet	Q-6	
Secondary Air Jet	---	
Pilot Outlet	0.8	
Main Jet	250	
ELECTRICAL		
Ignition	SUZUKI PEI	
Ignition Timing	17° + 1° BTDC @ 10,000r/min	
Firing Order		
Spark Plug	NGK B8EGV or Nippon Denso W24ESG	
Spark Plug Gap	0.5-0.6mm	
Contact Point Gap		
Dwell Angle		
Spark Performance	over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)	B/W-W/Bl approx 0-1 ohm	
Ignition Coil Resistance (Sec.)	Plug Cap - B/W approx 10-11 ohms	
Pri. Ignition Coil Resistance		
Magneto Coil Resistance	R/W-B/W approx 90-140 ohms	
	R/W-B/R approx 100-160 ohms	
Exciter Coil Resistance		
Pulser Coil Resistance		
Charging Coil Resistance		
Lighting Coil Output		
Battery		
Specific Gravity		
Regulated Amperage		
Regulated Voltage		
Fuse Capacity		

ITEM	STANDARD				LIMIT
Headlight (Low/High)					
Instrument Bulbs (Speedo/Tach/Hi Beam/Turn Signal Oil Pressure					
Tail light/Stop light					
Turn Signal Bulbs					
CHASSIS					
Axle Runout (Front/Rear)	---				0.25mm
Brake Drum I.D.	Front: ---				130.7mm
	Rear: ---				120.7mm
Brake Lining Thickness	Front: ---				1.5mm
	Rear: ---				1.5mm
Brake Disc Thickness (Front & Rear)					
Master Cylinder Cylinder Bore	Front:				
	Rear:				
Master Cylinder Piston Diameter	Front:				
	Rear:				
Brake Caliper Cylinder Bore	Front:				
	Rear:				
Brake Caliper Piston Dia.	Front:				
	Rear:				
Wheel Rim Runout (Radial & Axial)					2.0mm
Tire Size	Front: 3.00x21 4PR				---
	Rear: 4.10x21 4PR				---
Tire Tread Depth	Front: ---				4.0mm
	Rear: ---				4.0mm
Tire Pressure	FRONT		REAR		
	SOLO	DUAL	SOLO	DUAL	
Normal Riding	10-16 psi		10-16 psi		
Continuous High Speed Riding					
Fork Spring Free Length	---				544mm
Swinging Arm Pivot Shaft Runout	---				0.3mm
FUEL & OILS					
Fuel Type	Premium				
Engine Oil Type	Suzuki CCI Super 2				
Engine Oil Capacity					
Transmission Oil Type/Cap	SAE 20W-40/chg 800ml/ovhl 850ml				
Front Fork Air Pressure					
Fork Oil Type/Cap./Level	High Quality SAE 10 Fork Oil or ATF/430ml/167mm				
Rear Shock Air Pressure	142 psi				
Rear Shock Spring Pre-Set Length	280mm				
Cooling Solution Capacity	980ml				

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No. 6/5/81

Date:

Read and Initial

Manager _____

Parts Mgr. _____

Service Mgr. _____

Mechanics _____

MODEL: RM80X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN:	
	EX:	
Tappet Clearance or Valve Clearance	IN:	
	EX:	
Valve Guide--Valve Stem Clearance	IN:	
	EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN:	
	OUT:	
Valve Spring Tension	INN:	
	OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT		
Cam Height	IN:	
	EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure		
Max. Difference Between Cylinders		
Piston--Cylinder Clearance	.060-.070mm	0.120mm
Cylinder Bore	49.000-49.015mm	49.070mm
Piston Dia./ Measuring Point	48.935-48.950mm @ 18mm	48.880mm
Cylinder Warpage	---	0.05mm
Piston ring free end gap	1st & 2nd: approx. 5.0mm	4.0mm
Piston ring End Gap	1.2-1.5mm	2.0mm
Piston ring--Grove Clearance	1st & 2nd: approx. 0.015-0.065mm	---

ITEM	STANDARD	LIMIT
Piston Pin Bore I.D.	12.000-12.010mm	12.030mm
Piston Pin O.D.	11.995-12.000mm	11.980mm
CRANKSHAFT		
Con-rod Small End Hole	16.003-16.011mm	16.040mm
Big End Side Clearance		
Con-rod Big End Wear		
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	52.0 ± 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio		
CCI Pump Discharge Rate		
CLUTCH		
Drive Plate Thickness	2.9-3.1mm	2.6mm
Drive Plate Warpage		
Driven Plate Thickness	1.6 ± 0.1mm	---
Driven Plate Warpage	---	0.1mm
Drive Plate Claw Width	11.8-12.0mm	11.3mm
Clutch Spring Free Length	---	33.6mm
Pri. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	3.842 (73/19)	---
Final Reduction	3.571 (50/14)	---
Gear Ratios, Low/2nd	2.571 (36/14)	---
3rd/4th	1.888 (34/14)	
5th/Top	1.500 (30/20)	
	1.250 (25/20)	
Gear Backlash 1st/2nd	1.083 (26/24)	---
3rd/4th	0.961 (25/26)	
5th/6th		
Shift Fork--Grove Clearance	0.10-0.30mm	---
Shift Fork Groove Width	4.45-4.55mm	---
Shift Fork Thickness	4.25-4.35mm	---
Drive Chain Size	DID 428 GM, 112 links	---
21 Pin Length		259mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM	---	
Carburetor Type	Mikuni VM26SS	
I.D. No.	46920	
Bore Size	26mm	
Float Height	23 ± 1.0mm	
Fuel Level	---	
Air Screw	2.0	
Pilot Screw	---	
Pilot Air Jet	---	
Pilot Jet	#35	
Cut Away	2.0	
Jet Needle	5DP39-2	
Needle Jet	P-4	
Secondary Air Jet	---	
Pilot Outlet	0.6	
Main Jet	#155	
ELECTRICAL		
Ignition	SUZUKI "PEI"	
Ignition Timing	13° ± 1° @ 12,000 rpm	
Firing Order		
Spark Plug	NGK B8ES, ND W24ES	
Spark Plug Gap	0.6-0.8mm	
Contact Point Gap		
Dwell Angle		
Spark Performance	over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)	B/W - W/Bl approx. 0-1 ohm	
Ignition Coil Resistance (Sec.)	Plug Cap - B/W approx. 10-12 K ohms	
Magneto Coil Resistance	B/W-R/W approx 250-300 ohm B/W-Bl approx 50-60 ohms B/R-R/W approx 70-80 ohms	
Pulser Coil Resistance		
Charging Coil Resistance		
Lighting Coil Output		
Battery		
Specific Gravity		
Regulated Amperage		
Regulated Voltage		
Fuse Capacity		

ITEM	STANDARD	LIMIT
Headlight (Low/High)		
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure		
Tail light/Stop light		
Turn Signal Bulbs		
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: --- Rear: ---	110.7mm 110.7mm
Brake Lining Thickness	Front: --- Rear: ---	1.5mm 1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front: Rear:	
Master Cylinder Piston Diameter	Front: Rear:	
Brake Caliper Cylinder Bore	Front: Rear:	
Brake Caliper Piston Dia.	Front: Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 2.75 x 17 4PR Rear: 4.10 x 14 4PR	--- ---
Tire Tread Depth	Front: --- Rear: ---	4.0mm 4.0mm

Tire Pressure	FRONT		REAR	
	SOLO	DUAL	SOLO	DUAL
Normal Riding				
Continuous High Speed Riding				

Fork Spring Free Length		512mm
Swinging Arm Pivot Shaft Runout		0.6mm
FUEL & OILS		
Fuel Type	Premium	
Engine Oil Type	SUZUKI CCI Super 2	
Engine Oil Capacity		
Transmission Oil Type/Cap	SAE 20W-40, Change 700ml/ovhl 750ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level	SAE 5W-20 or ATF 166ml/170mm	

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPECS-17F
Date: 6/5/81

Read and Initial

Manager _____
Parts Mgr. _____
Service Mgr. _____
Mechanics _____

MODEL: RM60X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN:	
	EX:	
Tappet Clearance or Valve Clearance	IN:	
	EX:	
Valve Guide--Valve Stem Clearance	IN:	
	EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN:	
	OUT:	
Valve Spring Tension	INN:	
	OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT		
Cam Height	IN:	
	EX:	
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure		
Max. Difference Between Cylinders		
Piston--Cylinder Clearance	0.060-0.070mm	0.120mm
Cylinder Bore	42.000-42.015mm	42.070mm
Piston Dia./ Measuring Point	41.935-41.950mm @ 18mm	41.880mm
Cylinder Warpage		0.05mm
Piston ring free end gap	1st & 2nd: approx. 4.0mm	3.2mm
Piston ring End Gap	0.10-0.30mm	0.75mm
Piston ring--Grove Clearance	1st & 2nd: 0.01-0.05mm	---
Piston Pin Bore I.D.	12.002-12.010mm	12.030mm
Piston Pin O.D.	11.996-12.000mm	11.980mm
CRANKSHAFT		
Con-rod Small End Hole	16.003-16.011mm	16.040mm
Big End Side Clearance		
Con-rod Big End Wear		
Crankshaft Runout	---	0.05mm
Crankshaft Web to Web Width	40 ± 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio		
CCI Pump Discharge Rate		
CLUTCH		
Drive Plate Thickness	2.9-3.1mm	2.6mm
Drive Plate Warpage		
Driven Plate Thickness	1.6 ± 0.1mm	---
Driven Plate Warpage	---	0.1mm
Drive Plate Claw Width	11.8 - 12.0mm	11.3mm
Clutch Spring Free Length	---	33.6mm
Pri. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	3.842 (73/19)	---
Final Reduction	3.500 (42/12)	---
Gear Ratios, Low/2nd	2.571 (36/14) 1.888 (34/18)	
3rd/4th	1.500 (30/20) 1.250 (25/20)	
5th/Top	1.083 (26/24) 0.961 (25/26)	
Gear Backlash 1st/2nd		
3rd/4th		
5th/6th		
Shift Fork--Grove Clearance	0.10-0.30mm	0.50mm
Shift Fork Groove Width	4.45-4.55mm	---
Shift Fork Thickness	4.25-4.35mm	---
Drive Chain Size	DID 420M 92 links	
21 Pin Length	---	259mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM		
Carburetor Type	Mikuni VM20SS	
I.D. No.	46630	
Bore Size	20mm	
Float Height	21 ± 1.0mm	
Fuel Level		
Air Screw	2.0	
Pilot Screw		
Pilot Air Jet		
Pilot Jet	#17.5	
Cut Away	2.0	
Jet Needle	4J29-3	
Needle Jet	P-0	
Secondary Air Jet		
Pilot Outlet	0.6	
Main Jet	#115	
ELECTRICAL		
Ignition	SUZUKI "PEI"	
Ignition Timing	16° ± 2° @ 10,000 rpm	
Firing Order		
Spark Plug	NGK B8HS, ND W24FS	
Spark Plug Gap	0.6 - 0.8mm	
Contact Point Gap		
Dwell Angle		
Spark Performance	over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)	B/Y - Ground approx. 0.5-1.5 ohms	
Ignition Coil Resistance (Sec.)	Plug Cap - Ground approx. 5-7 ohms	
Magento Coil Resistance	B/R - B/W approx. 400-450 ohms	
High Speed Coil Resistance		
Low Speed Coil Resistance		
Exciter Coil Resistance		
Pulser Coil Resistance		
Charging Coil Resistance		
Lighting Coil Output		
Battery		
Specific Gravity		
Regulated Amperage		
Regulated Voltage		
Fuse Capacity		

ITEM	STANDARD	LIMIT
Headlight (Low/High)		
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure		
Tail light/Stop light		
Turn Signal Bulbs		
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: --- Rear: ---	110.7mm 110.7mm
Brake Lining Thickness	Front: --- Rear: ---	1.5mm 1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front: Rear:	
Master Cylinder Piston Diameter	Front: Rear:	
Brake Caliper Cylinder Bore	Front: Rear:	
Brake Caliper Piston Dia.	Front: Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 2.50 x 14 4PR Rear: 3.00 x 12 4PR	
Tire Tread Depth	Front: Rear:	4.0mm 4.0mm
Tire Pressure	FRONT: SOLO / DUAL; REAR: SOLO / DUAL	
Normal Riding	10-14 psi	10-14 psi
Continuous High Speed Riding		
Fork Spring Free Length	---	422mm
Swinging Arm Pivot Shaft Runout	---	0.6mm
FUEL & OILS		
Fuel Type	Premium	
Engine Oil Type	SUZUKI CCI Super 2	
Engine Oil Capacity		
Transmission Oil Type/Cap	chg 700ml/ovhl 750ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level	SAE 5W-20 or ATF 72ml/146mm	

TWO STROKE

SUZUKI
TWO STROKE
Service Bulletin

Bulletin No.: SPECS-17H
Date: 6/5/81

Read and Initial

Manager _____
Parts Mgr. _____
Service Mgr. _____
Mechanics _____

MODEL: RM100X

SUBJECT: SPECIFICATIONS

ITEM	STANDARD	LIMIT
VALVE SPECS		
Valve Lift	IN: EX:	
Tappet Clearance or Valve Clearance	IN: EX:	
Valve Guide--Valve Stem Clearance	IN: EX:	
Valve Guide I.D. (IN/EX)		
Valve Stem O.D.		
Valve Stem Deflection (IN & EX)		
Valve Head Thickness (IN & EX)		
Valve Seat Width (IN/EX)		
Valve Head Radial Runout (IN & EX)		
Valve Spring Free Length	INN: OUT:	
Valve Spring Tension	INN: OUT:	
Rocker Arm I.D. (IN & EX)		
Rocker Arm Shaft O.D. (IN & EX)		
CAMSHAFT	IN: EX:	
Cam Height		
Camshaft--Journal Clearance (IN & EX)		
Camshaft Journal I.D. (IN & EX)		
Camshaft Journal O.D. (IN & EX)		
Camshaft Deflection (IN & EX)		
Cam Chain 20 Pitch Length		
PISTON/RING/CLYINDER		
Compression Pressure		
Max. Difference Between Cylinders		
Piston--Cylinder Clearance	0.060-0.070mm	0.120mm
Cylinder Bore	50.000-50.015mm	50.070mm
Piston Dia./ Measuring Point	49.935-49.950mm @ 18mm	49.880mm
Cylinder Warpage	---	0.05mm
Piston ring free end gap	1st & 2nd: approx. 4.0mm	3.2mm
Piston ring End Gap	0.15-0.35mm	0.80mm
Piston ring--Groove Clearance	1st & 2nd: 0.010-0.050mm	--

ITEM	STANDARD	LIMIT
Piston Pin Bore I.D.	14.002-14.010mm	14.030mm
Piston Pin O.D.	13.995-14.000mm	13.980mm
CRANKSHAFT		
Con-rod Small End Hole	18.003-18.011mm	18.040mm
Big End Side Clearance		
Con-rod Big End Wear	---	0.05mm
Crankshaft Runout		
Crankshaft Web to Web Width	52 + 0.1mm	---
OIL PUMP		
Oil Pressure		
Tip Clearance		
Outer Rotor Clearance		
Side Clearance		
Oil Pump Reduction Ratio		
CCI Pump Discharge Rate		
CLUTCH		
Drive Plate Thickness	2.9-3.1mm	2.6mm
Drive Plate Warpage		
Driven Plate Thickness	1.6 + 0.1mm	---
Driven Plate Warpage	---	0.1mm
Drive Plate Claw Width	11.8 - 12.0mm	11.3mm
Clutch Spring Free Length	---	31.7mm
Pri. Drive--Driven Gear Backlash		
TRANSMISSION		
Primary Reduction	3.444 (62/18)	---
Final Reduction	4.615 (60/13)	---
Gear Ratios, Low/2nd	2.333 (28/12)	1.750 (28/16) ---
3rd/4th	1.411 (24/17)	1.190 (25/21) ---
5th/Top	1.045 (23/22)	0.956 (22/23) ---
Gear Backlash 1st/2nd		
3rd/4th		
5th/6th		
Shift Fork--Groove Clearance	#1 and #2 0.05-0.25mm	0.45mm
Shift Fork Groove Width	#1 4.45-4.55mm #2 5.45-5.55mm	---
Shift Fork Thickness	#1 3.4-3.6mm #2 5.3-5.4mm	---
Drive Chain Size	DID428DSM, Takasago 428FD	132 links
21 Pin Length	---	259mm

ITEM	STANDARD	LIMIT
CARBURETOR		
Idle RPM		
Carburetor Type	Mikuni VM30SS	
I.D. No.	41540	
Bore Size	30mm	
Float Height	7.8 ± 0.5mm	
Fuel Level		
Air Screw	1½	
Pilot Screw		
Pilot Air Jet		
Pilot Jet	#30	
Cut Away	2.5	
Jet Needle	5DP74-2	
Needle Jet	R-4	
Secondary Air Jet		
Pilot Outlet	0.8	
Main Jet	#200	
ELECTRICAL		
Ignition	SUZUKI "PEI"	
Ignition Timing	17.5° ± 1° @ 10,000 rpm	
Firing Order		
Spark Plug	NGK B9EGV	
Spark Plug Gap	0.5-0.6	
Contact Point Gap		
Dwell Angle		
Spark Performance	over 8mm	
Condensor Capacity		
Ignition Coil Resistance (Pri.)	B/W-W/Bl approx 0-1 ohm	
Ignition Coil Resistance (Sec.)	Plug Cap - B/W or W/Bl approx. 10 - 11 ohms	
Pri. Ignition Coil Resistance		
High Speed Coil Resistance		
Low Speed Coil Resistance		
Exciter Coil Resistance	approx R/W-B/W approx 250-310 ohms	
Pulser Coil Resistance	R/W-B/W(65-85 ohms) B/W-Bl(50-65 ohms)	
Charging Coil Resistance		
Lighting Coil Output		
Battery		
Specific Gravity		
Regulated Amperage		
Regulated Voltage		
Fuse Capacity		

ITEM	STANDARD	LIMIT
Headlight (Low/High)		
Instrument Bulbs (Speedo/ Tach/Hi Beam/Turn Signal Oil Pressure		
Tail light/Stop light		
Turn Signal Bulbs		
CHASSIS		
Axle Runout (Front/Rear)	---	0.25mm
Brake Drum I.D.	Front: ---	110.7mm
	Rear: ---	120.7mm
Brake Lining Thickness	Front: ---	1.5mm
	Rear: ---	1.5mm
Brake Disc Thickness (Front & Rear)		
Master Cylinder Cylinder Bore	Front:	
	Rear:	
Master Cylinder Piston Diameter	Front:	
	Rear:	
Brake Caliper Cylinder Bore	Front:	
	Rear:	
Brake Caliper Piston Dia.	Front:	
	Rear:	
Wheel Rim Runout (Radial & Axial)	---	2.0mm
Tire Size	Front: 2.75-21 4PR	---
	Rear: 4.10-18 4PR	---
Tire Tread Depth	Front:	
	Rear:	
Tire Pressure	FRONT: SOLO / DUAL; REAR: SOLO / DUAL	
Normal Riding	10-14 psi / 10-14 psi	
Continuous High Speed Riding		
Fork Spring Free Length		596mm
Swinging Arm Pivot Shaft Runout		0.3mm
FUEL & OILS		
Fuel Type	Premium	
Engine Oil Type	SUZUKI CCI Super 2	
Engine Oil Capacity	---	
Transmission Oil Type/Cap	SAE 20W-40, chg 800ml/ovhl 850ml	
Front Fork Air Pressure		
Fork Oil Type/Cap./Level	SAE 5W-20 or ATF 267ml/200mm	