



MODEL GUIDE ©1989 by Yamaha Motor Co., Ltd. 1st Edition, December 1989

FZR600/750R/1000

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CONTENTS

1.	INTRODUCTION	1
	1-1 FZR600/FZR750R/FZR1000	1
2.	'90 MODEL NEW FEATURES	2
	2-1 FZR600	2
	2-2 FZR750R	3
	2-3 FZR1000	2
3.	CHANGES BETWEEN '89 AND '90 MODEL	5
	3-1 ENGINE	5
	3-2 CHASSIS	8
	3-3 ELECTRICAL	12
	3-4 CHANGES IN RACING-KIT PARTS FOR THE FZR750R	14
4.	TECHNICAL INFORMATION	15
	4-1 TROUBLESHOOTING OF ELECTROMAGNETIC DIAPHRA	
5.	SERVICE DATA	17
	5-1 TYRE DESTINATION LIST	17
	5-2 HEADLIGHT BEAM VARIATION	19
	5-3 SPECIFICATIONS	20

1. INTRODUCTION

1-1 FZR600/FZR750R/FZR1000

Last year was a very good year for the FZRs. With the introduction of the totally redesigned FZR1000 and FZR750R, and the all-new FZR600, Yamaha established itself as the premier builder of supersports machinery. Each of these machines virtually dominates its class. Never before have production machines had such a wonderful blend of power, handling and all-around high performance. And never before have street riders, racers and motojournalists been so enthusiastic in their praise.

In 1990 the FZRs will be better yet. All benefit from detailed improvements. The FZR600 also gets new brakes along with new tyres. The FZR750R has new tyres. The FZR1000? Already close to perfection, it gets very little attention: improved adjustability for the suspension and a newly finished muffler. And all the FZRs sport new colors, graphics and other styling improvements.

This is going to be another very good year for the FZRs—another very bad year for the competition.

2. '90 MODEL NEW FEATURES

2-1 FZR600

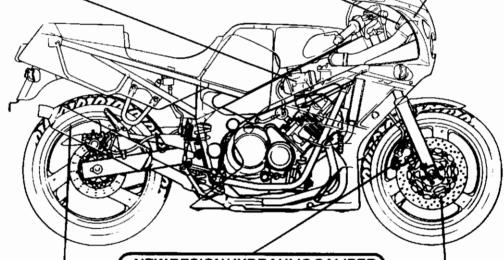
NEW DESIGN METER

- Improved Ergonomics and Appearances
- Another nice change for 1990 is the switch to FZR1000-style instrumentation. While the locations of the meters are the same, the panel is no sponge, like those on racing machines.

'90 NEW COLOR

 Combined with the new color scheme for 1990, these cosmetic changes make the 1990 FZR600 even more stylish.

ADVANCED CARBURETOR



NEW DESIGN HYDRAULIC CALIPER (4 pot uniqual piston)

- Improved Braking Performance
- The most significant changes to the FZR600 for 1990 center around the brakes. Last year's 2-pot brake calipers have been replaced with 4-pot opposedpiston calipers, similar to those used on the FZR1000. The pistons have different diameters, the leading piston being slightly smaller than the trailing piston.

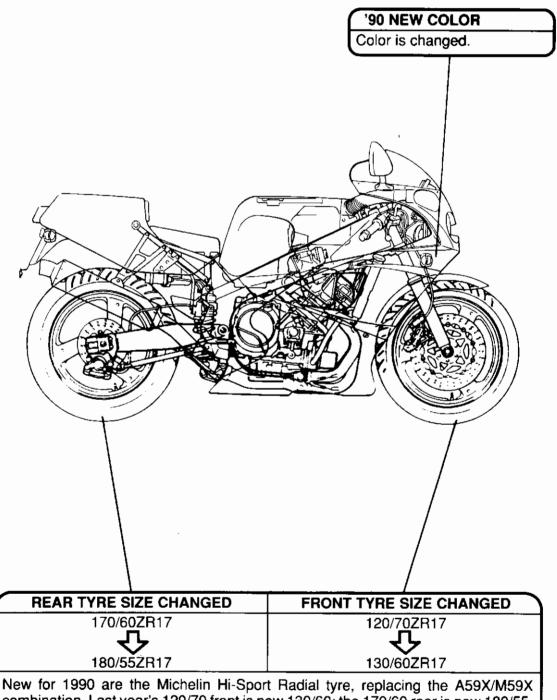
STAIN PLATING MUFFLER

- Improved Appearances
- Appearances have been improved by covering the collector with a sheet of satinplated steel.

NEW DESIGN FLOATING DISK

- The discs have also been changed.
 - The now feature a different hole pattern, for longer disc life.

2-2 FZR750R



New for 1990 are the Michelin Hi-Sport Radial tyre, replacing the A59X/M59X combination. Last year's 120/70 front is now 130/60; the 170/60 rear is now 180/55. These tyres were designed specifically for production racing and give excellent traction.

Wheel sizes and rim widths remain unchanged.

2-3 FZR1000

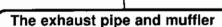
In addition to the machine's new colors and graphics.

Together with the new color scheme, the 1990 FZR1000 is truly a stunning example of motorcycle styling.

Front fork spring preload adjustment method is changed

 The suspension can be adjusted so each rider can get the best results from it.

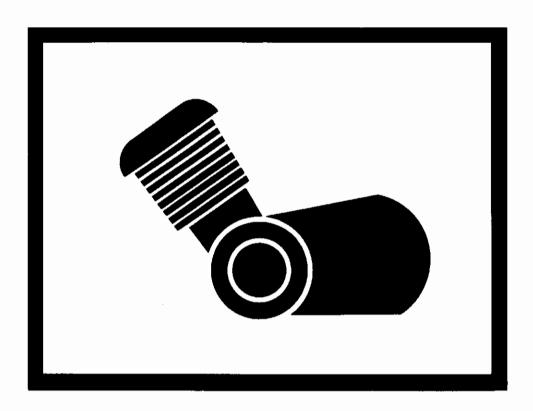
Changes for 1990 are minor and center around the front forks and exhaust pipe. New screw-type preload adjusters now extend above the tube tops and are turned with a wrench. The old method required use of a screwdriver to turn the recessed adjuster. With the new method, finer adjustments can be made much easier.



Muffler is changed to improve appearances.

The exhaust pipe and muffler have been refinished for improved appearances. The 1989 model featured a black pipe from the EXUP box rearward, with a satinplated muffler cover. For 1990, the pipe is white-chrome plated and the muffler cover is baked stainless steel. The baking process turns the stainless a gold color, which contrasts beautifully with the white pipe.

3. CHANGES BETWEEN '89 AND '90 MODEL

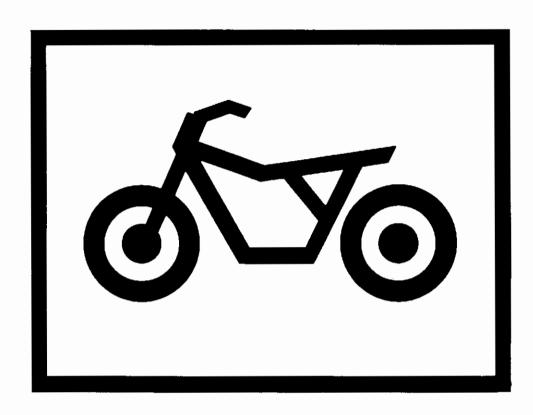


3-1ENGINE

FZR600 MUFFLER ASSEMBLY	6
CARBURETOR ASSEMBLY	
FZR1000 MUFFLER AND SILENCER	7

Change	Part No.	Interchange- ability
MUFFLER ASSEMBLY A cover plate which is painted black and then satin coated on top is introduced.		Interchange- able
'89	3HE-14710-00	
	Û	
	3HE-14710-10	
'90		
★ To improve the commercial value		
CARBURETOR ASSEMBLY The float chamber is re-designed.		The cham- ber is inter-
'89	Contact the overseas service section.	changeable as an indi- vidual item.
90		
★ To prevent the overflow of fuel into the float chamber during riding on rough roads.		

Change	Part No.	Interchange- ability
MUFFLER AND SILENCER • Defuser Color is changed from Black to White Chrome plated.		Interchange- able
	3GM-14710-02 3GM-14710-10	
The silencer is changed to stainless baked type (satin plated).		
★ To improve the appearances of the silencer.		

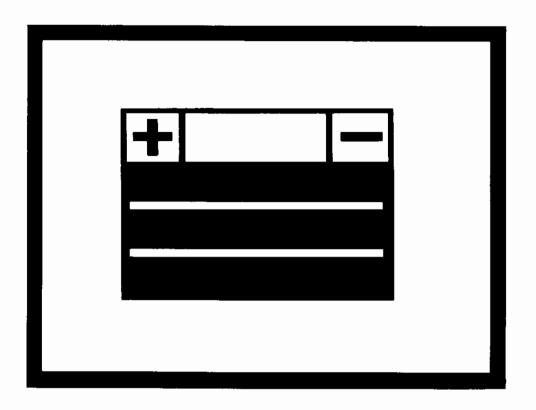


3-2 CHASSIS FZR600	
BRAKE CALIPER	9
BRAKE DISK	9
FZR750R TYRE	10
FZR1000 FRONT FORK	11

Change	Part No.	Interchange- ability
BRAKE CALIPER • 2-Pot opposed caliper → 4 Pot different sized piston Ø 45.37 mm x 2 → Ø 30.25 mm x 2 Ø 33.96 mm x 2	Left 3HE-2580U-00 Right 3HE-2580T-00 Left 3HE-2580U-50 Right 3HE-2580T-50	Interchange- able as a set assembled with the front fork
★ The caliper is modified to improve the braking performance.		
BRAKE DISK Holes are Rearranged in Disc.	3CV-25830-10	Interchange-
89	3RG-2581T-00	able
90		
★ To improve the durability of the disk		

Change	Part No.	Interchange- ability
TYRE Front		
789 J. 120mm	MICHELIN (A59X) 120/70 ZR17 (TX11) 130/60 ZR17	
'90 January 130mm		
Rear		
*89 \(\bigcup_{170mm}^{\text{170mm}} \)	MICHELIN (M59X) 170/60 ZR17	
'90 180mm	180/55 ZR17	
★ The Michelin Hi-sport tyres are adopted, which are wider for better grip on roads, thus suitable for sport riding. While the A59X/M59X tyres ('89) are designed with a focus on total performance on streets, the TX11/23 tyres are developed for racing competitions, with a capability of circuit riding.		

Change	Part No.	Interchange- ability
FRONT FORK • Spring Preload Adjustment method is changed.		
*89	3GM-23111-00 3GM-23111-10	Interchange- able
★ To be able to fine-adjust the spring in the initial setting, the adjuster is changed from the cam type to the thread type.		



3-3 ELECTRICAL	
FZR600	
METER ASSEMBLY	

·	Change	Part No.	Interchange- ability
	ASSEMBLY 1000 type of meter is adopted.		
'89		METER AS- SEMBLY 3HE-83500-00 3HE-83500-50	Interchange- able as a set assembled with the meter stay
	1	STAY ASSEMBLY 3HE-28356-00	
'90		3HE-28356-20	
★ To impro	ve the ergonomics and appearances of the meters		

3-4 CHANGES IN RACING-KIT PARTS FOR THE FZR750R

New Camshaft and Cam sprocket

The cam lift timing and working angle are changed to improve the performance.

New Induction Box and Carburetor Setting

An inlet is introduced in the lower section and the carburetor setting parts are changed.

Car de lea

Change of the Piston Head Shape

The compression ratio is increased from 12.5 to 12.8 by 0.3.

New Crankshaft (Option)

Friction loss is reduced to improve power.

New Super Crossmission

A-type (option, '89)
B-type (option '90)
Crossmission can be chosen from three types (A, B or standard type).
The B-type Crossmission combines features of A and standard types.

New Exhaust Pipe

Improved high-speed performance

• The performance is improved by 10,000 rpm.

 $\emptyset41.3 \rightarrow \emptyset43 \text{ (option)}$ $\emptyset38 \text{ (option)}$ A (Same as '89) B – ('90 New)

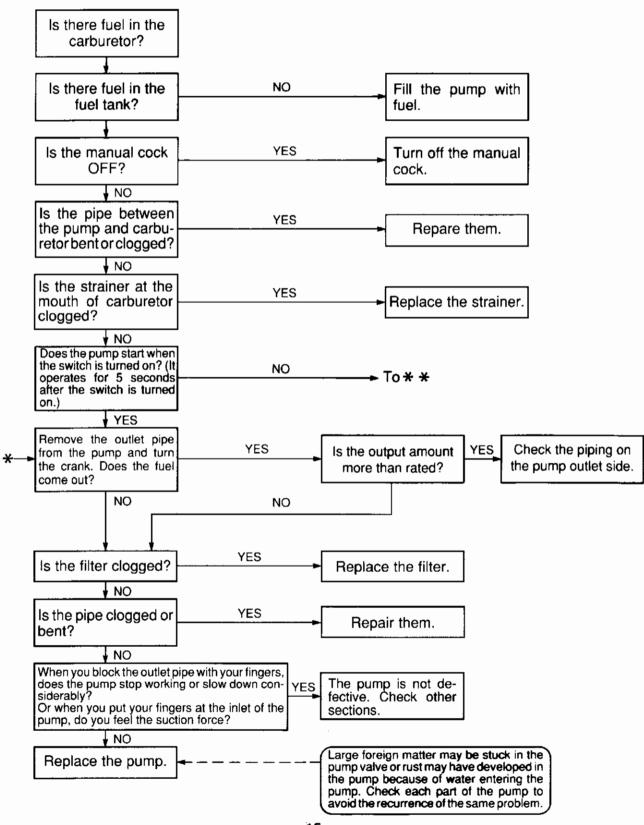
1st	30/13	39/16
2nd	34/18	37/18
3rd	32/20	35/20
4th	33/23	33/23
5th	26/20	26/20
6th	25/21	25/21

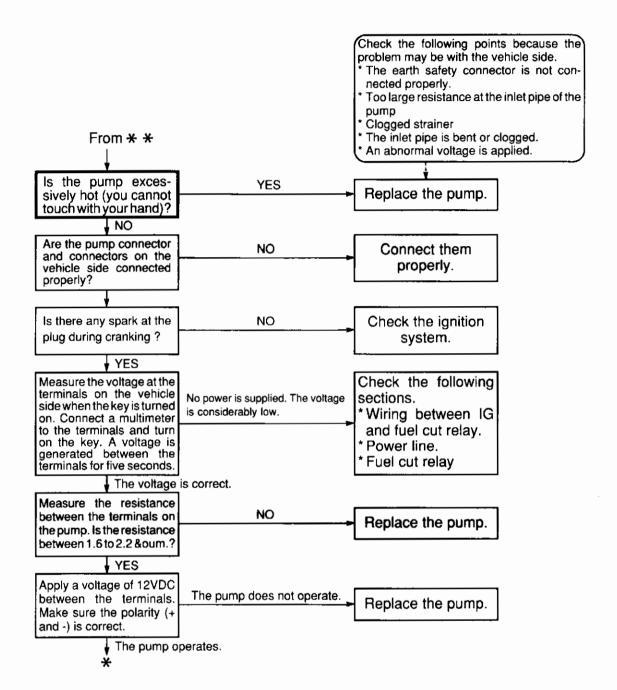
* All racing-kit parts are available at YAMAHA ENGINEERING Co.

4. TECHNICAL INFORMATION

4-1 TROUBLESHOOTING OF ELECTROMAGNETIC DIAPHRAGM FUEL PUMP

FZR600/FZR1000





5. SERVICE DATA

5-1 TYRE DISTINATION LIST FZR600

Model	Destination	Tyre Manufacture	
Model	Model Destination		BRIDGESTONE
3HJ2	AUSTRIA		0
	ENGLAND		
3HE3	FRANCE	0	
	ITALY		
	BELGIUM		
	DENMARK		
01150	FINLAND	`	
3HE3	NETHERLANDS		
	NORWAY		
	SWEDEN		
3RG2	GERMANY (50 ps)		0
3RH2	GERMANY (27 ps)		0
3HF3	SWITZERLAND		0
3HE4	SPAIN	0	

^{*} This table shows OEM (Original Equipment Manufacturer) tyres.

	Tyre Manufacture Size		Model
	DUNI OD	Front: 110/70V-17-V240	K275F
0514	DUNLOP	Rear : 130/70V-18-V240	K275
OEM	BRIDGESTONE	Front: 110/70V-17-V240	G549
		Rear : 130/70V-18-V240	G550
D .1.	DIDELLI	Front: 110/70-V17	MT79
Replace	PIRELLI	Rear : 130/70-V18	MT78

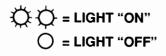
Model	Destination	Tyre Manufacture			
Woder	Destination	MICHELIN	PIRELLI		
All model	All over the world	0			

Replace	All model	0	0
Front	130/60 ZR 17	TX 11	MP7S
Rear	180/55 ZR 17	TX23	MP7S

Model	Destination	Tyre Manufacture					
Wiodei	Destination	DUNLOP	BRIDGESTONE	MICHELIN	PIRELLI		
	AUSTRIA						
3LE2	GERMANY			0			
	SWEDEN			'			
3LG2	ENGLAND	0					
3LF2	FRANCE			0			
3GM3	ITALY, etc		0				
3GM4	SPAIN		0				

Peplace	All model	0	0	0	0
Front	130/60 ZR 17	K510 F	CY 15	A59 X	MP7S
Rear	170/60 ZR 17	K510	CY 16	M59 X	MP7S

5-2 HEADLIGHT BEAM VARIATION FZR750R



Destination	Lighting		Bulb to be used	Head light type	
FRANCE	НІ	\$ 0	12V (12V)	Harogen (Yellow bulb)	
	LO	ОΦ	55W 55W		
W. GERMANY	Ξ	$\Diamond \Diamond$	12V 12V	T	
W. GERIVIAN I	LO	ΟΦ	55W 60/50W	Harogen	
ENGLAND	Ħ	O O	12V 12V	Haranan	
ENGLAND	D	ΦΦ	35/35W 35/35W	Harogen	
ITALY	Ħ	\$ \$	12V 12V	Caaldhaaa	
ITALI	D	ΦΦ	35/35W 35/35W	Seald beam	
SWITZERLAND	Н	\$ 0	12V (12V)	Harana	
SWITZERLAND	LO	ΟΦ	55W 55W	Harogen	

5-3 SPECIFICATIONS

AUSTRIA: (A)

GERMANY: (D) ITALY: (I)

BELGIUM: (B)

SWEDEN: (S)

FZR600

ENGLAND: (GB) HOLLAND: (NL) DENMARK: (DK) FRANCE : (F) NORWAY: (N) FINLAND: (SF) SPAIN: (E)

SWITZERLAND: (CH)

ITEM				SPECIFICATION	ON		
Type Name	3HE 3RG (50ps D), 3RH (27ps D) 3HJ (A) 3HF (CH)						
Model		FZR600, FZF	350	0 (A)			
Туре	3HE-026101 3RG-002101 3RH-003101 JYA3HES0 * 3HF-002101	(27 LA	ps D) .046101 (E)				
Total Length		2165 mm 2095 mm (F,	E)				
Wheel base		1420 mm					
Overhang Front Rear	295 mm 450 mm 380 mm (F, E)						
Minimum distance from groun	nd	135 mm					
Total Width		700 mm					
Total Handle Width		615 mm					
Total Height		1160 mm					
Weight Front Rear Total		102 kg (Net) 88 kg (E) (Dry) 99 kg (Net) 91 kg (E) (Dry) 201 kg (with oil and full fuel tank) (Net) 179 kg (E) (without oil and fuel) (Dry)					
				GB, NL, DK, N, A)		SF, E)	(D)
With one person	Front Rear Total			125 kg 151 kg 276 kg	1	27 kg 54 kg 81 kg	
With two persons Front Rear Total		124 kg 217 kg 341 kg		125 kg 226 kg 351 kg	2	27 kg 34 kg 61 kg	136 kg 245 kg 381 kg
		(D, F, B, I)		,(SF, E)		(OT	HERS)
Max. allowable weight	Front Rear Total	148 kg 245 kg 393 kg		135 kg 245 kg 380 kg		23	30 kg 31 kg 61 kg
Max. allowable axle weight	Front Rear			191kg/2.90 (kg/cn 245kg/2.90 (kg/cn			

ITEM	SPECIFICATION
Tyre Size Front Rear Manufacture Front Rear Pattern Front Rear Radius of Tyre Front Rear Rear	110/70V 17-V240 110/70 V17 (PIRELLI) 130/70V 18-V240 130/70 V18 (PIRELLI) BRIDGESTONE/DUNLOP/PIRELLI BRIDGESTONE/DUNLOP/PIRELLI G549/K275F/MT79 G550/K275/MT78 276 mm 307 mm
Rim Type Front Rear Rim Size Front Rear	Cast Cast MT 3.00 x 17 MT 3.50 x 18
Suspension System Front Rear Type of Cushion Spring Front Rear Wheel Travel Front Rear	Telescopic Swing arm Coil spring Coil spring 130 mm 115 mm
Steering Caster Angle of Front Wheel Trail of Front Wheel Steering Angle Minimum Round Radius Handle Lock Approval (D only)	25° 94 mm 28° 3.5 m Same as '89 Model FZ750 (3KS)
Chassis Frame Type Passenger's Grip	Double cradle Out
Fuel Type Tank Capacity Tank Reserve Amount	Gasoline 18 L 3.4 L
Engine Displacement Starting System Engine Type Bore x Stroke Compression Ratio Tilt Angle Engine Arrangement	599 cm³, 499 cm³ (A) Electric starter 4-stroke, 4-cylinder 59 x 54.8 59 x 45.7 (A) 11.6 ~ 12.4 : 1 9.7 ~ 10.5 : 1 (A) Engine angle 35°00' Angle from engine inclination 45°00' Forward inclined, 4-cylinder, Lateral position

ITEM	SPECIFICATION
Carburetor Manufacturer Type Venturi Diameter Number of Carburetors Marking Choke Type	MIKUNI BDST 32 32 mm 4 3HE 3HF (CH) Manual
Aircleaner Manufacturer Marking Type Number	YAMAHA 3HE Dry type element 1
Cylinder Head Valve Type Intake Exhaust Valve Clearance Intake Exhaust Valve Diameter Intake Exhaust Valve Timing Intake (Open/Close) Exhaust (Open/Close) Valve Lift Stroke (Max.)	DOHC DOHC 0.11 ~ 0.20 mm 0.21 ~ 0.30 mm 24.0 mm 21.0 mm BTDC 29°/ABDC 59° BBDC 59°/ATDC 29° 7.50 mm
Exhaust Spark Plug Type (Manufacturer) Resistance Value Gap Ignition Timing (B.T.D.C.) Ignition Order	7.30 mm CR8E, CR9E (NGK), U24ESR-N,U27ESR-N (ND) 3.0 \sim 7.5 k Ω 0.7 \sim 0.8 mm 4 \sim 6° at 1200 rpm #1 \rightarrow #2 \rightarrow #4 \rightarrow #3
Lubrication Method Oil Pump Type/Manufacturer Engine Oil Capacity Engine Oil Grade	Pressure lubricated, wet sump Trochoid pump/IHARA 3.1 L, 3.0L (CH) SAE 20W40 Type SE
Clutch Type/Manufacturer Operation Friction Plate Manufacturer Friction Plate Dimension Friction Plate Quantity	Wet, multiple-disc/YAMAHA BODY Mechanical type F.C.C. 115.2 (Outside Dia.) x 90 (Inside Dia.) x 3.0 mm (Thickness) 9

ITEM		SPECIFICATION
Cooling System Coolant Capacity Thermostatic Valve Open Radiator Type Relief Valve Opening Pre		2200 cc 280 cc 80 ~ 84°C 3HE 0.95 ~ 1.25 kg/cm ²
Transmission Type/Manufacturer Control Gear Ratio	1st 2nd 3rd 4th 5th 6th	Constant mesh/YAMAHA Left foot operation 42/15 (2.800) 43/22 (1.955) 31/20 (1.550) 28/21 (1.333) 31/26 (1.192) 30/27 (1.111)
Reduction Method	Primary Secondary	Gear Chain
Reduction Ratio Rear Axle Ratio Total Reduction Ratio	Primary Secondary 1st 2nd 3rd 4th 5th 6th	82/48 (1.708) 46/15 (3.067), 49/15 (3.267) (A) 3.067 (F) 14.669, 15.626 (A) 10.240, 10.907 (A) 8.120, 8.650 (A) 6.985, 7.441 (A) 6.246, 6.654 (A) 5.821, 6.201 (A)
Maximum Performance Maximum Torque Max. Engine Design Speed	d	66.8 kw/10500 rpm (90.9 ps/10500 rpm) 62.5 kw/10500 rpm (85.0 ps/10500 rpm) (F) 51.7 kw/10500 rpm (70.4 ps/10500 rpm) (A) 36.1 kw/8000 rpm (49.1 ps/8000 rpm) (CH, 50ps D) 19.7 kw/8000 rpm (26.8 ps/8000 rpm) (27ps D) 65.7 Nm/8500 rpm (6.7 kgm/8500 rpm) 50.0 Nm/9000 rpm (5.1 kgm/9000 rpm) (A) 51.0 Nm/4000 rpm (5.2 kgm/4000 rpm) (CH) 49.0 Nm/4000 rpm (5.0 kgm/4000 rpm) (50ps D) 39.2 Nm/3500 rpm (4.0 kgm/3500 rpm) (27ps D) 11000 rpm
Idling Speed Carburetor Setting Main Jet Jet Needle-Clip Position Needle Jet Pilot Jet		1150 ~ 1250 rpm, 1250 ~ 1350 rpm (CH) # 107.5 , #92.5 (27ps D) 5CFZ4-2 , 5CFZ4-1 (A) , 5CFZ4-4 (27ps D) Y-0 , Y-4 (A) #30 , #32.5 (CH)

ITEM	SPECIFICATION
Bulb Wattage x Quantity	
Head Lamp	12V 45W x 1, 45W/40W x 1
	12V 45W/40W x 2 (DK, N, E)
	12V 35W/55W x 2 (GB)
	12V 55W x 1, 60W/55W x 1(F, CH) 12V 35W/35W x 2 (I)
Marker Lamp	12V 4W x 1
Marker Lamp	12V 3.4W x 2 (GB)
	12V 4W x 2 (I)
Tail/brake Lamp	12V 5W/21W x 2
Flasher Lamp	12V 21W x 4
Auto Cancel Flasher System	With Out (D)
Voltage	12V
Battery	
Type	GM12
Capacity	12AH (10 hr)

GERMANY: (D) ITALY: (I) FRANCE: (F) ENGLAND: (GB)

ZR750R SWITZERLAND: (CH)						
ITEM		SPECIFICATION				
Type Name		3PJ (D) 3PG(F) 3PK (I, GB) 3SJ (CH)				
Model		FZR750R				
Туре	3PJ-001101 (D) 3PG-001101 (F) 3PK-002101 (I) 3PK-003101 (GB) 3SJ-001101 (CH)					
Total Length		2180 mm (D, 2100 mm (F,				
Wheel base		1445 mm				
Overhang Front Rear	300 mm 435 mm (D, GB, CH) 355 mm (F, I)					
Minimum distance from grour	nd	120 mm				
Total Width		705 mm				
Total Handle Width		620 mm				
Total Height		1160 mm				
Weight Front Rear Total	106 kg (Net) 95 kg (E) (Dry) 104 kg (Net) 92 kg (E) (Dry) 210 kg (with oil and full fuel tank) (Net) 187 kg (E) (without oil and fuel) (Dry)					
		(D)	(F, GB)	(I, CH)		
With one person	Front Rear Total	144 kg 156 kg 300 kg	137 kg 148 kg 285 kg	135 kg 145 kg 280 kg		
Max. allowable weight	150 kg 170 kg 320 kg					
Max. allowable axle weight	Front Rear	177 kg/2.50 (kg/cm²) 266 kg/2.50 (kg/cm²)				

ITEM	SPECIFICATION
Tyre Size Front Rear Manufacture Front Rear Pattern Front Rear Radius of Tyre Front Rear	130/60 ZR17 180/55 ZR17 MICHELIN/PIRELLI MICHELIN/PIRELLI TX 11/MP7 Sport TX 23/MP7 Sport 282 mm 302 mm
Rim Type Front Rear Rim Size Front Rear	Cast Cast MT 3.50 x 17 MT 5.50 x 17
Suspension System Front Rear Type of Cushion Spring Front Rear Wheel Travel Front Rear	Telescopic Swing arm Coil spring Coil spring 130 mm 150 mm
Steering Caster Angle of Front Wheel Trail of Front Wheel Steering Angle Minimum Round Radius Handle Lock Approval (D only)	24°30' 100 mm 25° 3.6 m, 3.9 m (D) Same as '89 Model (3PJ)
Chassis Frame Type Passenger's Grip	Press back bone Out
Fuel Type Tank Capacity Tank Reserve Amount	Gasoline 19 L 4 L
Engine Displacement Starting System Engine Type Bore x Stroke Compression Ratio Tilt Angle Engine Arrangement	749 cm³ Electric starter 4-stroke, 4-cylinder 72.0 x 46.0 10.8 ~ 11.6 : 1 Engine angle 35°00' Angle from engine inclination 40°00' Forward inclined, 4-cylinder, Lateral position

ITEM	SPECIFICATION
Carburetor Manufacturer Type Venturi Diameter Number of Carburetors Marking	MIKUNI BDST 38 38 mm 4 3PG 3PK (I, GB) 3SJ (CH) Manual
Choke Type Aircleaner Manufacturer Marking Type Number	YAMAHA 3FV Dry type element 1
Cylinder Head Valve Type Intake Exhaust Valve Clearance Intake Exhaust Valve Diameter Intake	DOHC DOHC 0.11 ~ 0.20 mm 0.21 ~ 0.30 mm 23.0 mm
Exhaust Valve Timing Intake (Open/Close) Exhaust (Open/Close) Valve Lift Stroke (Max.) Intake Exhaust	24.5 mm BTDC 37°/ABDC 67° BBDC 37°/ATDC 67° 7.40 mm 7.80 mm
Spark Plug Type (Manufacturer) Resistance Value Gap Ignition Timing (B.T.D.C.) Ignition Order	DR9EA (NGK), X27ESR-U (ND) $3.0 \sim 7.5 \text{ k}\Omega$ $0.6 \sim 0.7 \text{ mm}$ $9 \sim 11^{\circ}$ at 1200 rpm $\#1 \to \#2 \to \#4 \to \#3$
Lubrication Method Oil Pump Type/Manufacturer Engine Oil Capacity Engine Oil Grade	Pressure lubricated, wet sump Trochoid pump/IHARA 3.5 L SAE 20W40
Clutch Type/Manufacturer Operation Friction Plate Manufacturer Friction Plate Dimension Friction Plate Quantity	Wet, multiple-disc/YAMAHA BODY Mechanical type F.C.C. 133 (Outside Dia.) x 113 (Inside Dia.) x 3.0 mm (Thickness) 9

ITEM		SPECIFICATION
Cooling System Coolant Capacity Thermostatic Valve Oper Radiator Type Relief Valve Opening Pre		2500 cc 200 cc 80.5 ~ 83.5°C 3FV 0.95 ~ 1.25 kg/cm ²
Transmission Type/Manufacturer Control Gear Ratio	1st 2nd 3rd 4th 5th 6th	Constant mesh/YAMAHA Left foot operation 32/13 (2.462) 33/17 (1.941) 31/19 (1.632) 33/23 (1.435) 26/20 (1.300) 25/21 (1.190)
Reduction Method Reduction Ratio Rear Axle Ratio Total Reduction Ratio	Primary Secondary Primary Secondary 1st 2nd 3rd 4th 5th 6th	Gear Chain 68/41 (1.659) 46/16 (2.875) 11.737 9.256 7.780 6.841 6.199 5.677
Maximum Performance Maximum Torque Max. Engine Design Speelldling Speed	d	75.0 kw/12000 rpm (102 ps/12000 rpm) (F) 73.6 kw/11250 rpm (100 ps/11250 rpm) (D) 89.0 kw/12000 rpm (121 ps/12000 rpm) (I, GB) 29.4 kw/5500 rpm (40 ps/5500 rpm) (CH) 69.6 Nm/9000 rpm (7.1 kgm/9000 rpm) (F) 66.0 Nm/7750 rpm (6.7 kgm/7750 rpm) (D) 77.5 Nm/9250 rpm (7.9 kgm/9250 rpm) (I,GB) 52.0 Nm/5000 rpm (5.3 kgm/5000 rpm) (CH) 13000 rpm 1150 ~ 1250 rpm
Carburetor Setting Main Jet Jet Needle Needle Jet Pilot Jet		#1.4:#127.5 #2.3:#122.5 (F, D) #1.4:#122.5 #2.3:#117.5 (I, GB) #1.4:#125 #2.3:#120 (CH) 5CEW-11 Y-0 #42.5, #35 (CH)

ITEM	SPECIFICATION
Bulb Wattage x Quantity	
Head Lamp	12V 35W/35W x 2 (I, GB)
l	12V 55W x 1, 60W/55W x 1(D, F, CH)
Marker Lamp	12V 3W x 2 (I)
	12V 3.4W x 2 (GB)
	12V 4W x 1 (D, F, CH)
Tail/brake Lamp	12V 5W/21W x 2
Flasher Lamp	12V 21W x 4
Auto Cancel Flasher System	With Out (D)
Voltage	12V
Battery	
Type	MF, YTX9-12B
Capacity	8AH (10 hr)

AUSTRIA: (A)

GERMANY: (D) ITALY: (I)

BELGIUM: (B)

SWEDEN: (S) ENGLAND: (GB) HOLLAND: (NL) DENMARK: (DK)

FZR1000

FRANCE: (F) NORWAY: (N) FINLAND: (SF)

SPAIN: (E)

SWITZERLAND : (CH)

ITEM				SPECIFICATION	ON		
Type Name		3GM 3LE (D, S, A 3LF (F) 3LG (GB) 3LH (CH))				
Model		FZR1000					
Туре		3GM-009101 JYA3GMS0- 3LE-009101 3LF-007101 3LG-004101 3LH-005101	* L/ (D, (F) (G	S, A) B)			
Total Length		2200 mm		No. 4. 1 - 40 - 41 - 41 - 41 - 41 - 41 - 41 -			
Wheel base		1460 mm					
Overhang Front Rear		295 mm 445 mm					
Minimum distance from groun	nd	135 mm					
Total Width		730 mm					
Total Handle Width		625 mm		*****			
Total Height		1160 mm					
Weight Front Rear Total		116 kg (Net) 105 kg (E) (Dry) 119 kg (Net) 109 kg (E) (Dry) 235 kg (with oil and full fuel tank) (Net) 214 kg (E) (without oil and fuel) (Dry)					
		(I, B, S, CH, A)	(F, (GB, NL, DK, N, A)	(SF,	E)	(D)
With one person	Front Rear Total	138 kg 167 kg 305 kg		140 kg 170 kg 310 kg	141 174 315	kg	145 kg 180 kg 325 kg
With two persons	Front Rear Total	136 kg 239 kg 375 kg		138 kg 247 kg 385 kg	139 256 395	kg	143 kg 272 kg 415 kg
		(D, F, S, A)		(SF, E)		(OTI	HERS)
Max. allowable weight	Front Rear Total	160 kg 280 kg 440 kg		160 kg 260 kg 420 kg		24	0 kg 9 kg 9 kg
Max. allowable axle weight	Front Rear			182kg/2.90 (kg/cm 266kg/2.90 (kg/cm			

ITEM	SPECIFICATION
Tyre Size Front Rear Manufacture Front Rear Pattern Front Rear Radius of Tyre Front Rear Radius	130/60VR 17-V280, 130/60 ZR17 170/60VR 17-V280, 170/60 ZR17 BRIDGESTONE/DUNLOP/MICHELIN/PIRELLI BRIDGESTONE/DUNLOP/MICHELIN/PIRELLI CY15/K510F/A59X/MP7S CY16/K510/M59X/MP7S 282 mm 302 mm
Rim Type Front Rear Rim Size Front Rear	Cast Cast MT 3.50 x 17 MT 5.50 x 17
Suspension System Front Rear Type of Cushion Spring Front Rear Wheel Travel Front Rear	Telescopic Swing arm Coil spring Coil spring 120 mm 130 mm
Steering Caster Angle of Front Wheel Trail of Front Wheel Steering Angle Minimum Round Radius	26°45' 110 mm 27° 3.6 m
Chassis Frame Type Passenger's Grip	Press back bone Out
Fuel Type Tank Capacity Tank Reserve Amount	Gasoline 19 L 3.4 L
Engine Displacement Starting System Engine Type Bore x Stroke Compression Ratio Tilt Angle Engine Arrangement	1002 cm ³ Electric starter 4-stroke, 4-cylinder 75.5 x 56.0 11.6 ~ 12.4 : 1 Engine angle 35°00' Angle from engine inclination 35°00' Forward inclined, 4-cylinder, Lateral position

ITEM	SPECIFICATION
Carburetor Manufacturer Type Venturi Diameter Number of Carburetors Marking Choke Type	MIKUNI BDST 38 38 mm 4 3GM 3LF (F, D, A, S) 3LH (CH) Manual
Aircleaner Manufacturer Marking Type Number	YAMAHA 3GM Dry type element 1
Cylinder Head Valve Type Intake Exhaust Valve Clearance Intake Exhaust Valve Diameter Intake Exhaust Valve Timing Intake (Open/Close) Exhaust (Open/Close)	DOHC DOHC 0.11 ~ 0.20 mm 0.21 ~ 0.30 mm 23.5 mm 25.0 mm BTDC 33°/ABDC 63° BBDC 63°/ATDC 33°
Valve Lift Stroke (Max.) Intake Exhaust	7.30 mm 7.70 mm
Spark Plug Type (Manufacturer) Resistance Value Gap Ignition Timing (B.T.D.C.) Ignition Order	DR8ES-L (NGK), X24ESR-U (ND) $3.0 \sim 7.5 \text{ k}\Omega$ $0.6 \sim 0.7 \text{ mm}$ $4 \sim 6^{\circ}$ at 1000 rpm $#1 \rightarrow #2 \rightarrow #4 \rightarrow #3$
Lubrication Method Oil Pump Type/Manufacturer Engine Oil Capacity Engine Oil Grade	Pressure lubricated, wet sump Trochoid pump/IHARA 3.5 L SAE 20W40
Clutch Type/Manufacturer Operation Friction Plate Manufacturer Friction Plate Dimension Friction Plate Quantity	Wet, multiple-disc/YAMAHA BODY Hydraulic type F.C.C. A 134 (Outside Dia.) x 112 (Inside Dia.) x 3.0 mm (Thickness) B 134 (Outside Dia.) x 116 (Inside Dia.) x 3.0 mm (Thickness) A=1, B=8

ITEM		SPECIFICATION		
Cooling System Coolant Capacity Thermostatic Valve Oper Radiator Type Relief Valve Opening Pre		2300 cc 380 cc 80.5 ~ 83.5°C 3GM 0.95 ~ 1.25 kg/cm ²		
Transmission Type/Manufacturer Control Gear Ratio	1st 2nd 3rd 4th 5th	Constant mesh/YAMAHA Left foot operation 36/14 (2.571) 32/18 (1.778) 29/21 (1.381) 27/23 (1.174) 28/27 (1.037)		
Reduction Method Reduction Ratio Total Reduction Ratio	Primary Secondary Primary Secondary 1st 2nd 3rd 4th 5th	Gear Chain 68/41 (1.659) 47/17 (2.765) 11.791 8.152 6.332 5.383 4.755		
Maximum Performance Maximum Torque Max. Engine Design Speed Idling Speed		106.7 kw/10000 rpm (145.0 ps/10000 rpm) 92.0 kw/10000 rpm (125.0 ps/10000rpm) (GB) 75.0 kw/9500 rpm (102.0 ps/9500 rpm) (F) 74.0 kw/9500 rpm (101.0 ps/9500 rpm) (D, S, A) 44.3 kw/5250 rpm (60.2 ps/5250 rpm) (CH) 107.3 Nm/8500 rpm (10.9 kgm/8500 rpm) 98.2 Nm/8500 rpm (10.0 kgm/8500 rpm) (GB) 87.0 Nm/5250 rpm (8.9 kgm/5250 rpm) (F) 88.3 Nm/5250 rpm (9.0 kgm/5250 rpm) (D, S, A) 81.2 Nm/5000 rpm (8.29 kgm/5000 rpm) (CH) 11500 rpm 900 ~ 1100 rpm, 1000 ~ 1100 rpm (CH)		
Carburetor Setting Main Jet Jet Needle-Clip Position (CH only) Needle Jet Pilot Jet		#1.4:#125 #2.3:#127.5 #1.4:#127.5 #2.3:#125 (F, D, S, A, CH) 5CEW8 Y-0 #40 , #37.5 (CH)		

ITEM	SPECIFICATION
Bulb Wattage x Quantity	
Head Lamp	12V 35W/35W x 2 (I, GB)
	12V 45W/40W x 2 (DK, N, E) 12V 45W x 1, 45W/40W x 1 (A, NL, SF)
	12V 45W x 1, 45W/46W x 1 (A, NE, SI)
	12V 55W x 1, 60W/55W x 1 (D, F, CH)
Marker Lamp	12V 5W
Tail/brake Lamp	12V 5W/21W x 2
Flasher Lamp	12V 21W x 4
Auto Cancel Flasher System	With, Out (D)
Voltage	12V
Battery	
Type	YB14L
Capacity	14AH (10 hr)

