YAMAHA

FZR1000A
FZR1000AC

SUPPLEMENTARY SERVICE MANUAL

[illegible]-11616-07-26

3LK-28197-11

FOREWORD

This Supplementary Service Manuel has been prepared to introduce new service and new data for the FZR1000A/AC. For complete information on service procedures, it is necessary to use this Supplementary Service Manual together with following manuals:

FZR1000W/WC Service Manual (LIT-11616-06-80)

FZR1000A/AC
SUPPLEMENTARY
SERVICE MANUAL
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1st Edition, September 1989
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Printed in U.S.A.
LIT-11616-07-26

NOTICE

This manual was written by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so it is assumed that persons using this book to perform maintenance and repairs on Yamaha motorcycles have a basic understanding of the mechanical concepts and procedures inherent in motorcycle repair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

This model has been designed and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the motorcycle will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his motorcycle and to conform with federal environmental quality objectives.

Yamaha Motor Company, Ltd. is continually striving to improve all models manufactured by Yamaha. Modifications and significant changes in specifications or procedures will be forwarded to all Authorized Yamaha dealers and will, where applicable, appear in future editions of this manual.

NOTE:

This Service Manual contains information regarding periodic maintenance to the emission control system for the FZR1000A/AC. Please read this material carefully.

TECHNICAL PUBLICATIONS
SERVICE DIVISION
MOTORCYCLE GROUP
YAMAHA MOTOR CO., LTD.

HOW TO USE THIS MANUAL

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.

⚠ The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

⚠WARNING Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander, or a person inspecting or repairing the motorcycle.

CAUTION: A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle.

NOTE: A NOTE provides key information to make procedures easier or cleaer.

MANUAL FORMAT

All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

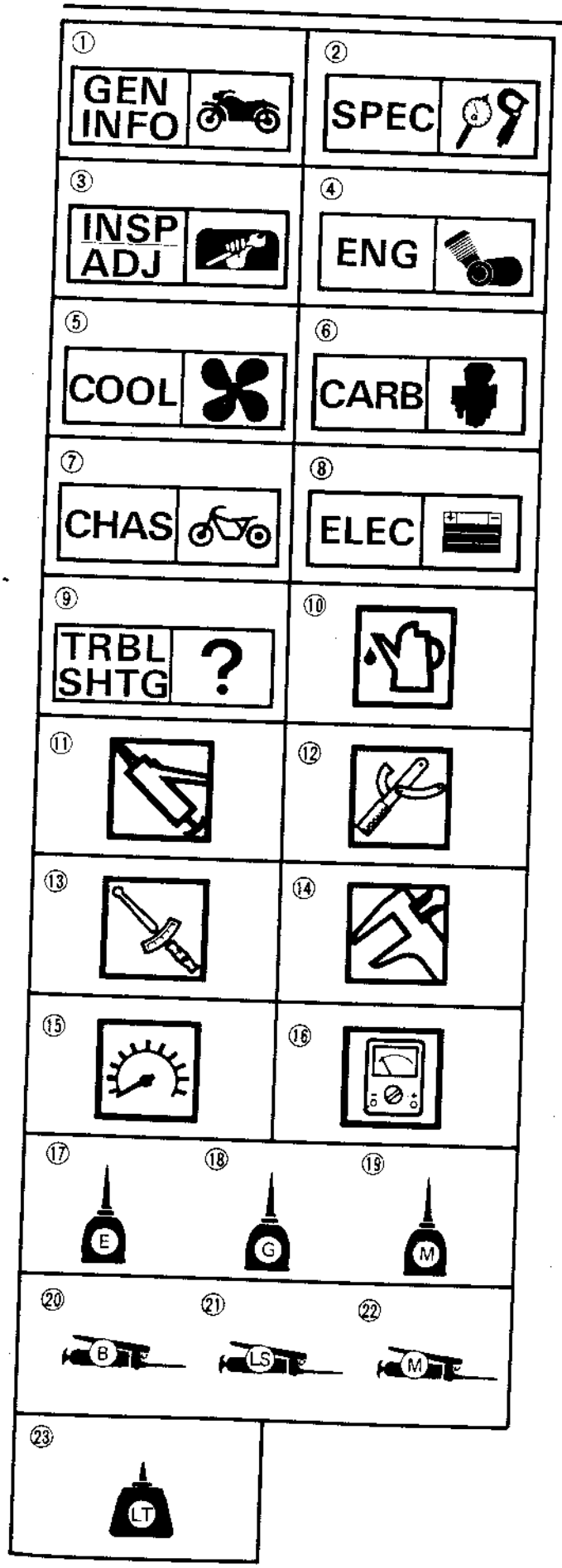
In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

Bearings

Wear/Damage → Replace.

EXPLODED DIAGRAM

Each chapter provides exploded diagrams before each disassembly section for ease in identifying disassembly and assembly procedures.



ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑨ are designed as thumb tabs to indicate the chapter's number and content.

① General information
② Specifications
③ Periodic inspection and adjustment
④ Engine
⑤ Cooling system
⑥ Carburetion
⑦ Chassis
⑧ Electrical
⑨ Troubleshooting

Illustrated symbols ⑩ to ⑯ are used to identify the specifications appearing.

⑩ Filling fluid
⑪ Lubricant
⑫ Special tool
⑬ Tightening
⑭ Wear limit, clearance
⑮ Engine speed
⑯ Ω, V, A

Illustrated symbols ⑰ to ㉓ in the exploded diagram indicate grade of lubricant and location of lubrication point.

⑰ Apply engine oil
⑱ Apply gear oil
⑲ Apply molybdenum disulfide oil
⑳ Apply wheel bearing grease
㉑ Apply lightweight lithium-soap base grease
㉒ Apply molybdenum disulfide grease
㉓ Apply locking agent (LOCTITE®)

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GENERAL INFORMATION



MOTORCYCLE IDENTIFICATION

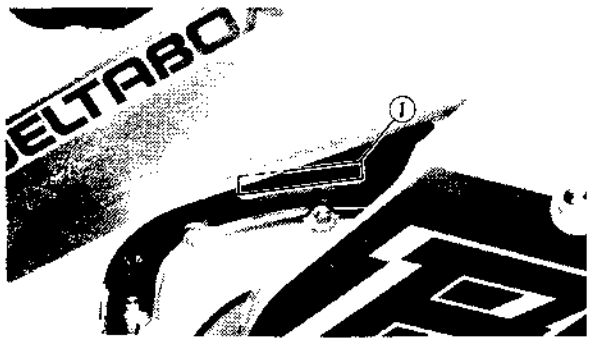
VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is stemped into the right side of the steering head.

Starting serial number:
FZR1000A:
JYA3LKE0 * LA006101
FZR1000AC:
JYA3LKC0 * LA010101

NOTE:

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.



ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the right side of the engine.

Starting serial number:
FZR1000A:
3LK-006101
FZR1000AC:
3LK-010101

NOTE:

- The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.
- Designs and specifications are subject to change without notice.

SPECIFICATIONS

GENERAL SPECIFICATIONS

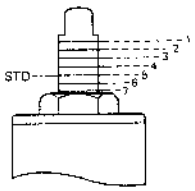
Model	FZR1000A/AC
Model Code Number:	3LK4 (FZR1000A) 3LK5 (FZR1000AC)
Vehicle Identification Number:	JYA3LKE0 * LA006101 (FZR1000A) JYA3LKC0 * LA010101 (FZR1000AC)
Engine Starting Number:	3LK-006101 (FZR1000A) 3LK-010101 (FZR1000AC)

MAINTENANCE SPECIFICATIONS

ENGINE

Model		FZR1000A/AC
Carburetor:		
Type/Manufacture x Quantity		BDST38/MIKUNI x 4
I.D. Mark		3LK00 (FZR1000A), 3LK10 (FZR1000AC)
Main Jet	(M.J.)	
(#1, 4 Cylinder)		#125
(#2, 3 Cylinder)		#122.5
Main Air Jet	(M.A.J.)	#85
Jet Needle-Clip Position	(J.N.)	5CEW9
Needle Jet	(N.J.)	Y-0
Pilot Jet	(P.J.)	#37.5
Pilot Outlet Size	(P.O.)	0.85
Pilot Air Jet	(P.A.J.)	#125
Pilot Screw	(P.S.)	Preset
Valve Seat Size	(V.S.)	1.7
Starter Jet	($G.S_1$)	#60
	($G.S_2$)	0.6
Bypath Size	($B.P_1$)	0.8
	($B.P_2$)	0.8
	($B.P_3$)	0.8
Thtottle Valve Size	(Th.V.)	#125
Fuel Level	(F.L.)	10.6 ~ 11.6 mm (0.42 ~ 0.46 in) Above from the float chamber line
Engine Idle Speed		950 ~ 1,050 r/min

CHASSIS

Model	FZR1000A/AC
Front Suspension:	
Front Fork Travel	120 mm (4.72 in)
Front Spring Free Length	321.3 mm (12.6 in)
< Limit >	< 318 mm (12.5 in) >
Spring Rate: K1	8 N/mm (0.8 kg/mm, 44.8 lb/in)
Stroke K1	Zero ~ 120 mm (Zero ~ 4.72 in)
Optional Spring	No
Oil Capacity	535 cm³ (18.9 Imp oz, 18.1 US oz)
Oil Level (Fully Compression)	116 mm (4.57 in) Below the top of inner fork tube without fork spring
Oil Grade	Yamaha Fork Oil 10W or equivalent
Adjustment 	<table><tr><td></td><td colspan="4">Stiffer</td><td>STD</td><td colspan="2">Softer</td></tr><tr><td>Adjusting position</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>

PERIODIC INSPECTION AND ADJUSTMENT

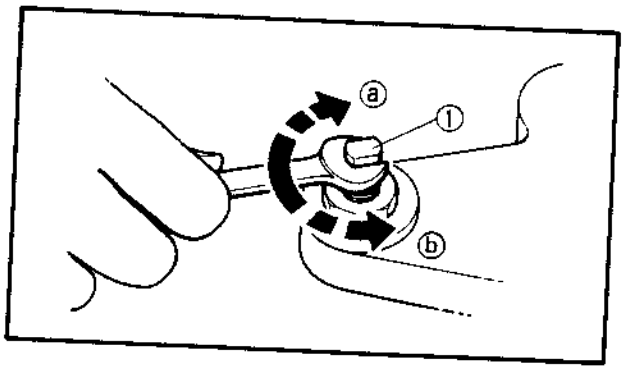
CHASSIS

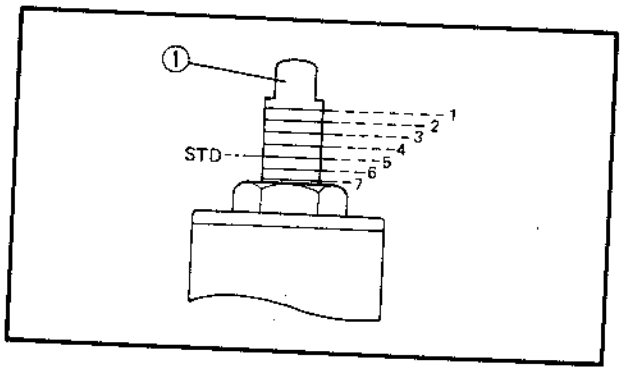
FRONT FORK ADJUSTMENT

⚠ WARNING

- **Always adjust each fork preload to the same setting. Uneven adjustment can cause poor handling and loss of stability.**
- **Securely support the motorcycle so there is no danger of it falling over.**

1. Place the motorcycle on a level place.
2. Adjust:
   - Spring preload





Adjustment steps:
- Turn the adjuster ① in or out.

Turn in ⓐ → Preload is increased

Turn out ⓑ → Preload is decreased

NOTE:

The grooves are there to show the adjusting level.

CAUTION:

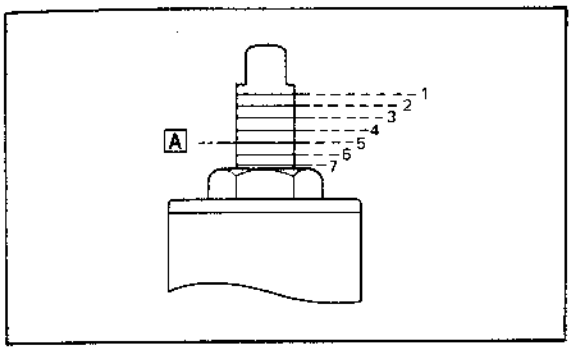
Never attempt to turn the adjuster beyond the position "1" or "7".

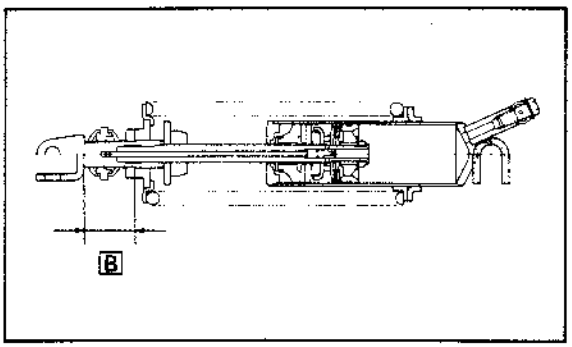
	Stiffer				STD	Softer	
Adjusting position	1	2	3	4	5	6	7

RECOMMENDED COMBINATIONS OF THE FRONT FORK AND THE REAR SHOCK ABSORBER SETTINGS

Use this table as a guide for specific riding and motorcycle load conditions.

	Front fork	Rear shock absorber		Loadling condition			
	Spring preload adjuster	Spring preload adjuster Measurement "A"	Damping adjuster	Solo rider	With passenger	With accessories equipment	With accessories equipment and passenger
1	4 ~ 7	37.5 ~ 42.5 mm (1.48 ~ 1.67 in)	5 ~ 9 clicks turns out	○			
2	2 ~ 5	40 ~ 45 mm (1.57 ~ 1.77 in)	4 ~ 7 clicks turns out		○	○	
3	1 ~ 4	42.5 ~ 47.5 mm (1.67 ~ 1.87 in)	3 ~ 6 clicks turns out				○





A Standard
B Measurement "A"