



**XJR1300SP '99**

5EA6-AE1

**SUPPLEMENTARY  
SERVICE MANUAL**



---

## FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the XJR1300SP '99. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

**XJR1300 (L) SERVICE MANUAL: 5EA3-AE1**

**XJR1300SP '99  
SUPPLEMENTARY  
SERVICE MANUAL**  
©1998 by Yamaha Motor Co., Ltd.  
First Edition, December 1998  
Any reproduction or unauthorized use  
without the written permission of  
Yamaha Motor Co., Ltd. is expressly  
prohibited.

## NOTICE

This manual was produced by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual, so it is assumed that anyone who uses this book to perform maintenance and repairs on Yamaha motorcycles has a basic understanding of the mechanical ideas and the procedures of motorcycle repair. Repairs attempted by anyone without this knowledge are likely to render the motorcycle unsafe and unfit for use.

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

---

### NOTE:

Designs and specifications are subject to change without notice.

---

## IMPORTANT INFORMATION

Particularly important information is distinguished in this manual by the following notations.



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



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 clearer.

## HOW TO USE THIS MANUAL

This manual is intended as a handy, easy-to-read reference book for the mechanic. Comprehensive explanations of all installation, removal, disassembly, assembly, repair and check procedures are laid out with the individual steps in sequential order.

① The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter.

Refer to "SYMBOLS".

② Each chapter is divided into sections. The current section title is shown at the top of each page, except in Chapter 3 ("PERIODIC CHECKS AND ADJUSTMENTS"), where the sub-section title(-s) appears.

③ Sub-section titles appear in smaller print than the section title.

④ To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

⑤ Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.

⑥ Symbols indicate parts to be lubricated or replaced.

Refer to "SYMBOLS".

⑦ A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.

⑧ Jobs requiring more information (such as special tools and technical data) are described sequentially.

② CLUTCH

① ENG

④

CLUTCH

ENG

⑤

⑥

Order	Job/Part	Qty	Remarks
14	Clutch boss	1	
15	Stopper ring	1	
16	Clutch plate	1	
17	Clutch spring plate	1	
18	Clutch spring plate seat	1	
19	Friction plates (narrow)	1	Refer to "REMOVING/INSTALLING THE CLUTCH".
20	Thrust washer	1	
21	Spacer	1	
22	Bearing	1	
23	Clutch housing	1	

⑦

③

**REMOVING THE CLUTCH**

- Straighten the lock washer tab.
- Loosen:
  - clutch boss nut ①

**NOTE:**  
While holding the clutch boss ② with the universal clutch holder, loosen the clutch boss nut.

**Universal clutch holder ③**  
90890-04086

- Remove:
  - clutch boss nut ①
  - lock washer ②
  - clutch boss ③
  - thrust washer
  - spacer ⑤
  - bearing ⑥
  - clutch housing ⑦

**NOTE:**  
Insert two 6 mm bolts ⑧ into the spacer and then remove the spacer by pulling on the bolts.

⑧

**CHECKING THE FRICTION PLATES**  
The following procedure applies to all of the friction plates.

- Check:
  - friction plate
  - Damage/wear → Replace the friction plates as a set.
- Measure:
  - friction plate thickness
  - Out of specification → Replace the friction plates as a set.























**NOTE:**  
Measure the friction plate at four places.

**Friction plate thickness**  
2.9 – 3.1 mm  
<Limit> 2.8 mm

⑧

4-34

4-35

① GEN INFO 	② SPEC 	
③ CHK ADJ 	④ ENG 	
⑤ CARB 	⑥ CHAS 	
⑦ ELEC 	⑧ TRBL SHTG ?	
⑨ 	⑩ 	
⑪ 	⑫ 	
⑬ 	⑭ 	
⑮ 	⑯ 	
⑰ 	⑱ 	⑲ 
⑳ 	㉑ 	㉒ 
㉓ 	㉔ <b>New</b>	

EAS00009

**SYMBOLS**

The following symbols are not relevant to every vehicle.

Symbols ① to ⑧ indicate the subject of each chapter.

- ① General information
- ② Specifications
- ③ Periodic checks and adjustments
- ④ Engine
- ⑤ Carburetor(-s)
- ⑥ Chassis
- ⑦ Electrical system
- ⑧ Troubleshooting

Symbols ⑨ to ⑯ indicate the following.

- ⑨ Serviceable with engine mounted
- ⑩ Filling fluid
- ⑪ Lubricant
- ⑫ Special tool
- ⑬ Tightening torque
- ⑭ Wear limit, clearance
- ⑮ Engine speed
- ⑯ Electrical data

Symbols ⑰ to ㉒ in the exploded diagrams indicate the types of lubricants and lubrication points.

- ⑰ Engine oil
- ⑱ Gear oil
- ⑲ Molybdenum disulfide oil
- ⑳ Wheel bearing grease
- ㉑ Lithium soap base grease
- ㉒ Molybdenum disulfide grease

Symbols ㉓ to ㉔ in the exploded diagrams indicate the following:

- ㉓ Apply locking agent (LOCTITE®)
- ㉔ Replace the part

---

# CONTENTS

**SPECIFICATIONS**

GENERAL SPECIFICATIONS ..... 1  
MAINTENANCE SPECIFICATIONS ..... 1  
    CHASSIS ..... 1





## GENERAL SPECIFICATIONS

**SPEC**

## SPECIFICATIONS

### GENERAL SPECIFICATIONS

Model	XJR1300SP
Model code:	5EA5 (SF) (G) (A) 5EA6 (GB) (D) (NL) (B) (F) (P) (I) (GR) (N) (SW) (E)

### MAINTENANCE SPECIFICATIONS

#### CHASSIS

Item	Standard	Limit
Rear suspension:		
Shock absorber travel	88 mm	•••
Spring free length	230 mm	•••
Fitting length	212 mm	•••
Spring rate (K1)	17.8 N/mm (1.82 kg/mm)	•••
(K2)	21.6 N/mm (2.2 kg/mm)	•••
(K3)	23.7 N/mm (2.42 kg/mm)	•••
Stroke (K1)	0 ~ 32 mm	•••
(K2)	32 ~ 62 mm	•••
(K3)	62 ~ 88 mm	•••

