

MJ 10003 [] 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

SEBUICE INFORMATION

460 (KATARIKALA). 1804-1848 KATATOR KATARIKA

tud y Kirkingu kendi Tendrenouse, preigen tuk kenifitas 1983 - Frankision saar tuungus disebes 1947 - US Krishilli sainansa ti in kepandisensus kenifikitansa Yincan kens

FOREWORD

This Service Information has been prepared to introduce new service and data for the XJ900S(H) '96. For complete service information procedures it is necessary to use this publication together with the following microfiche service manual.

XJ900S(G~H) '95 ~ '96 SERVICE MANUAL: 4KM-ME2 XJ900S(G) '95 SERVICE INFORMATION: 4KM-SE1



XJ900S(H) '96
SERVICE INFORMATION
© 1995 by Yamaha Motor Co., Ltd.
1st Edition, July 1995
All rights reserved. Any reprinting or unauthorized use without the written permission of Yamaha Motor Co., Ltd. is expressly prohibited.
Printed in Japan

BUOSMYS OUTABTESE**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.

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.

HOW TO USE THIS MANUAL PARTICULARY IMPORTANT INFORMATION

This material is distinguished by the following notation.

M

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 clearer.

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, and assembly, 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 Pitting/Damage → Replace.

EXPLODED DIAGRAM

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

MONTAGE GENERAL SPECIFICATIONS



SPECIFICATIONS

GENERAL SPECIFICATIONS

e (i redmust storModelesk etchies esti	XJ900S
Model code:	4KM3
	4KM4 (E)
	4PR2 (CH, A)
CONTRACT TO CREATE AND CONTRACTOR	4PS2 (AUS)
Engine starting number:	4KM-025101
	4KM-047101 (E)
	4PR-003101 (CH, A)
	4PS-002101 (AUS)
Vehicle identification number:	JYA4KMS0 * TA047101 (E)
	JYA4PST0 * TA002101 (AUS)
Frame starting number:	4KM-025101
ti periode de la completa de la comp	4PR-003101 (CH, A)
Dimensions:	
Overall length	2,230 mm
Overall width	750 mm
Overall height 1847/k base it said topposite	1,300 mm
on:Seattheighta the standard each and a	795 mm
Wheelbase/ graduate and for solic angle and	1,505 mm
Minimum ground clearance	130 mm
Minimum turning radius	3,000 mm

AFCINE CONTROL CARROLL CONTROL CONTROL OF CONTROL OF CONTROL C

Bentas 4: Townson and single soft Badanas Hill

vaaletseen heeroe gelijvad S 197 (SSA-80)44 (B) 197 (AA-80)44 (A) 197 (OO-875) (B) 201 (SDA-878)

A CAMPA

A TOS CONTRO DE TENTA A MORROS ESTANCO A GRESA DE LA TESTA DE TRANSPORTO AS ESTANCO A MORROS ESTANCO A GRESA DE LA TESTA DEL TESTA DEL TESTA DE LA TESTA DEL TE

MAINTENANCE SPECIFICATIONS



MAINTENANCE SPECIFICATIONS ENGINE

ZÖFELÄ.		tenofile
Мо	del	XJ900S
Carburetor:	SHEUMOPHM/TORRU	randoštveni i strotš
I. D. mark		4KM 01 (Except for CH, A)
y y :		4PR 01 (for CH, A) sample (east 1831) as the sine A
Main jet	(M.J)	#100 विद्यासन् विद्यासन् विद्यासन् विद्यासन
Main air jet	(M.A.J)	#72.5 . Here Lie-
Jet needle	(J.N)	5DT3-2
Needle jet	(N.J)	0-2
Pilot air jet	(P.A.J.1)	#120 Sunic restific
Pilot outlet	(P.O)	1.0
Pilot jet	(P.J)	#12.5
Bypass 1	(B.P.1)	0.9
Bypass 2	(B.P.2)	0.8
Bypass 3	(B.P.3)	0.9
Pilot screw	(P.S)	1-1/2
Valve seat size	(V.S)	1.5
Starter jet	(G.S.1)	#30
Throttle valve size	(Th.V)	#125
Fuel level	(F.L)	6 ~ 7 mm
Engine idle speed		950 ~ 1,050 r/min
Intake vacuum		30.7 ~ 33.3 kPa (230 ~ 250 mmHg)

CHASSIS

Model		XJ900S	
Front suspension:			
Front fork travel		140 mm	
Fork spring free length		399.5 mm	
Spring rate	(K1)	4.5 N/mm (0.45 kg/mm)	
garin september and a significant control of the september of the septembe	(K2)	7.0 N/mm (0.70 kg/mm)	:
Stroke	(K1)	0 ~ 100 mm	
	(K2)	100 ~ 140 mm	
Optional spring		No	
Oil capacity		444 cm ³	
Oil level		113 mm	
Oil grade		Fork oil 10 W or equivalent	
Rear suspension:			
Shock absorber travel		50 mm	
Spring free length		180 mm	
Fitting length		163 mm	
Spring rate	(K1)	139.7 N/mm (13.97 kg/mm)	
Stroke	(K1)	0 ~ 50 mm	
Optional spring		No	

~ 0348 a

MAINTENANCE SPECIFICATIONS



ELECTRICAL

Model	XJ900S		
Starter motor:		The state of the s	
Model / manufacturer	DB4DT/NIPPONDENSO		
Output A MO not appear to be well	0.6 kW	e san yar	
Armature coil resistance A HO 55th 10 fm	0.013 ~ 0.015 Ω at 20°C		
Brush overall length	12 mm	184 70% PŠ	
<limit></limit>	<8.5 mm>	tog and taxes 64	
Spring force	653 ~ 948 g	ulbean igy	
Commutator diameter	28 mm	a, sladifi	
<wear limit=""></wear>	<27 mm>	ter we told?	
Mica undercut	0.6 mm	reithy a softill	
2.57		18 (1010°	
3.4	7 (S. 1978)		
	(2.8)		
	er væler i		
aurei Idi. – Idi			
		Markey of the state of the stat	

อาสารที่สาย สเนเนเราว

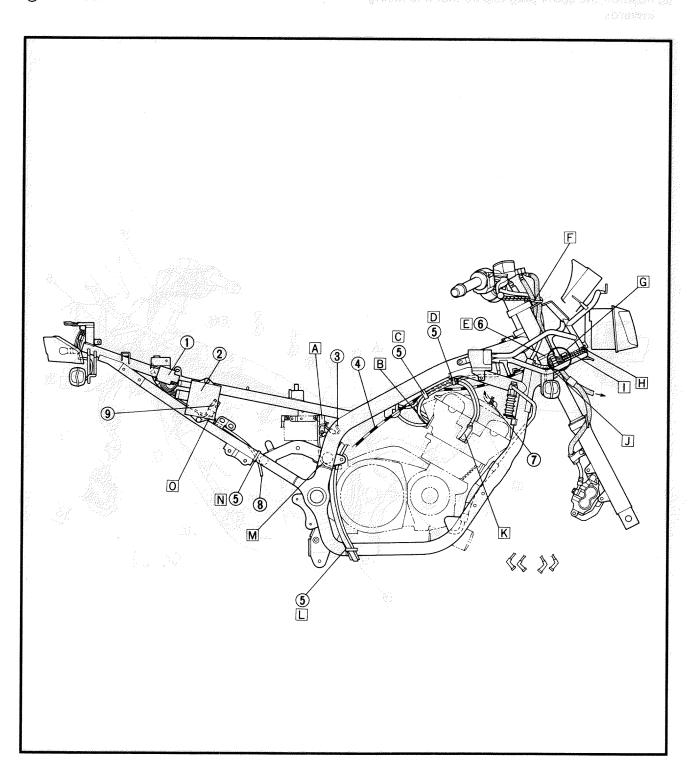
	opeka kiji elite viji de skipa d	
	till fjerkert stær i og i miliget strep å	
		· 网络自身强烈 原始 自己自由的现代 经决定。
		uniterational General Comment of the Comment
	ežna vy istá	
2		
	- 146 - Y - 1282	
	gjerie samež same i se islauja, s	



- 1) Fuse box
- ② Ignitor unit
- 3 Fuel sender lead and sale say of
- 4 Clutch cable
- (5) Clamp of the expression is self-types in vest.
- Band

- Main fuse

- A Clamp the fuel sender wire harness to the side cover stay, and a sender wire harness to the side cover stay.
- B Clamp the high tension cord #4 to the upper part, and the #2 cord to the lower part at the marked position of next right visiting to be asset [4]
- C Clamp the high tension cords and clutch cable and sensing hose.
- D Clamp the high tension cords #1, #2, #3 and #4 to the clamp on the frame at the marked positions accordingly.
- ⑦ Clip E Clamp the brake hoses to the inner tube.

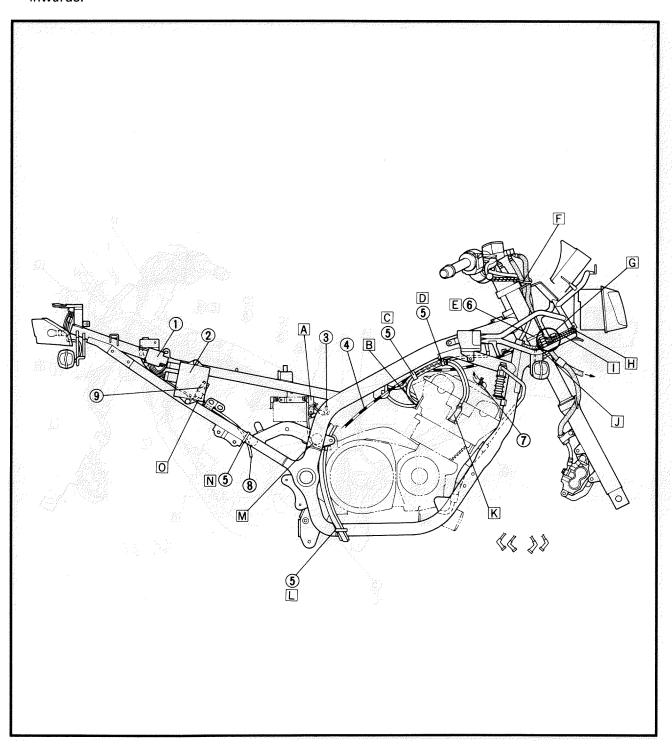


SPEC



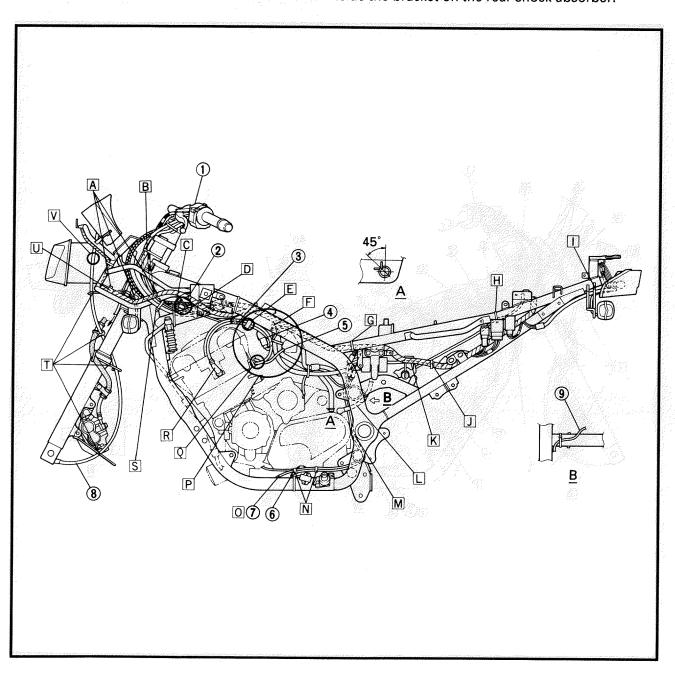
- G After connecting the left and right flasher leads, clamp them to the cowling stay. Connect the thermo-switch-lead to the plug-with and an clamp growth white tape affixed to it. 2000 and to the little and the little an
- ing stay and clamp it onto it.
- Clamp the auxiliary light lead and wire harN Clamp the rear brake switch lead to the back ness to the cowling stay.
- lead to the cowling stay.
- K Position the spark plug cap so that it is facing inwards.

- Pass the drain hoses for the tank and the drain hose for the air filter case through the
- M Pass the battery lead under the cross pipe H Pass the auxiliary light lead outside the cowl- and secure it to the side of the battery ⊖ terminal.
- ☐ Clamp the flasher lead and thermo switch ☐ Pass the rear brake light switch lead coupler behind the main fuse bracket.



- ① Handlebar switch (left)
- 2 Main switch coupler
- 3 High tension cord (#1)
- 4 High tension cord (#2)
- (5) High tension cord (#4)
- ⑥ Sidestand switch lead
- 7 Oil level switch lead
- ® Speedometer cable
- Starter motor lead
- Starter cable

- A Clamp the wire harness to the cowling stay.
- B Clamp the left handlebar switch lead to the inner tube.
- C Clamp the left handlebar switch lead, the main switch lead and the starter cable to the tension pipe.
- D Clamp the wire harness at the point where the white tape is affixed to it.
- E Clamp the high tension cords (#1 and #2).
- E Clip both ends of the fuel hose.
- G Clamp the wire harness inside the seat rail.
- H Point the clamp end so that it is facing downwards.
- I Pass the flasher lead inside the protruding tab on the rear fender.
- U Clamp the wire harness and the fuel pump lead. Position the fuel pump lead behind the wire harness.
- K Pass the wire harness and the fuel pump lead through the guide wire on the stay lock. Position the fuel pump lead behind the wire harness.
- Pass the starter motor lead under the cross pipe, then clamp it to the valetoirile opa el-eldka isadē cross pipe. Pass the starter motor lead inside the tab on the rear fender and then inside the bracket on the rear shock absorber.

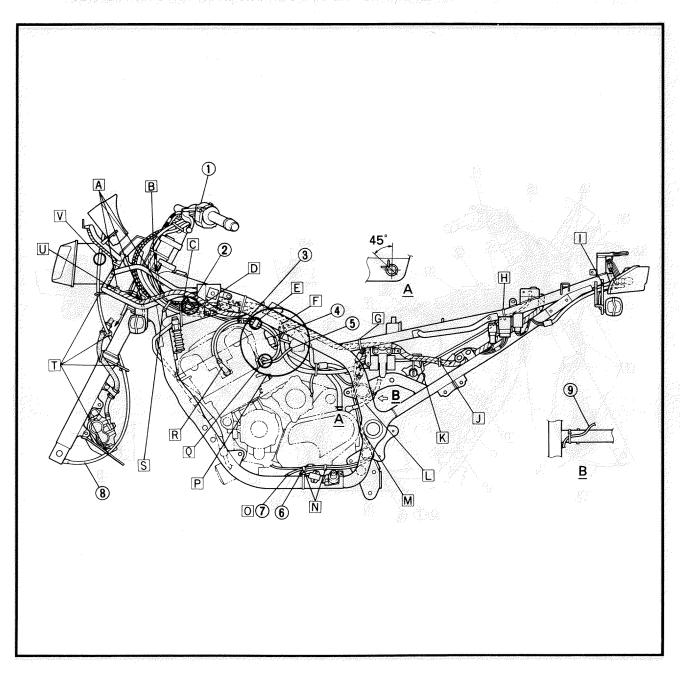






- M Pass the sidestand switch lead through the inner part of the rear arm.
- N Clamp the sidestand switch lead and the oil level switch lead with the engine clamp.
- Pull the oil level switch lead backwards slightly so that it is not slack.
- P Pass the throttle position sensor lead inside the high tension cords (#1 and #2).
 - Either one of the high tension cords (#1) and (#2) can be uppermost.
- Pass the cord (#4) outside the fuel hose and breather hose.
 - Pass the cord (#1) outside the fuel hose, breather hose and throttle position sensor

- O Clamp the high tension cord #4 to the upper part at the marked position, and the high tension cord #2 to the lower part.
- R Position the spark plug cap so that it is facing inwards.
- S Clamp the left handlebar switch lead, main switch lead, starter cable and throttle cables.
- Pass the speedometer cable to the left of the headlight and pass it through the guide wire which secures the cowling stay guide wire, brake hose holder, fender bracket guide wire and caliper.
- U Clamp the part of the wire harness which has white tape affixed to it onto the cowling stay.
- When installing the cowling, make sure that the speedometer cable is not pinched between the headlight and the cowling.

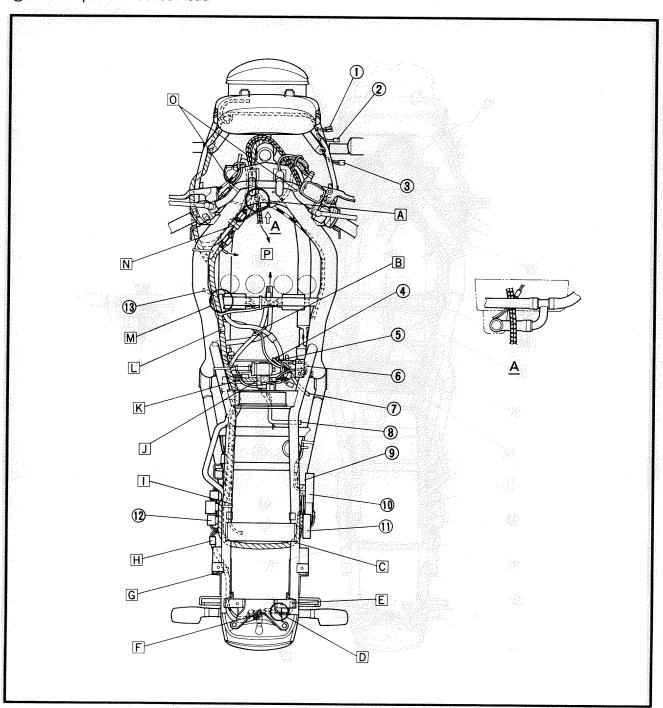




- 1) Front flasher light (right) lead
- ② Auxiliary light leads seem spread and
- 4 Oil level switch lead
- ⑤ Sidestand switch lead

- Battery ⊕ lead
- 1 Ignitor unit
- 11) Fuse box
- 12 Flasher relay
- (3) Throttle position sensor lead

- A The wire harness must be uppermost, followed by the clutch wire, with the throttle wire underneath.
- ③ Thermo switch lead B Clamp the AC generator lead, fuel hose and air filter case drain hose.
- C Pass the wire harness through the guide on the rear fender, (6) Fuel sender lead then pass it around to the left side of the motorcycle.
- ⑦ Battery ☐ lead
 D Pass the rear flasher leads underneath the point where the taillight is installed.
- Main fuse
 Pass the left and right rear flasher leads through the guide hole in the rear fender.
 - E Connect the leads and clamp them to the frame at the guide hole.

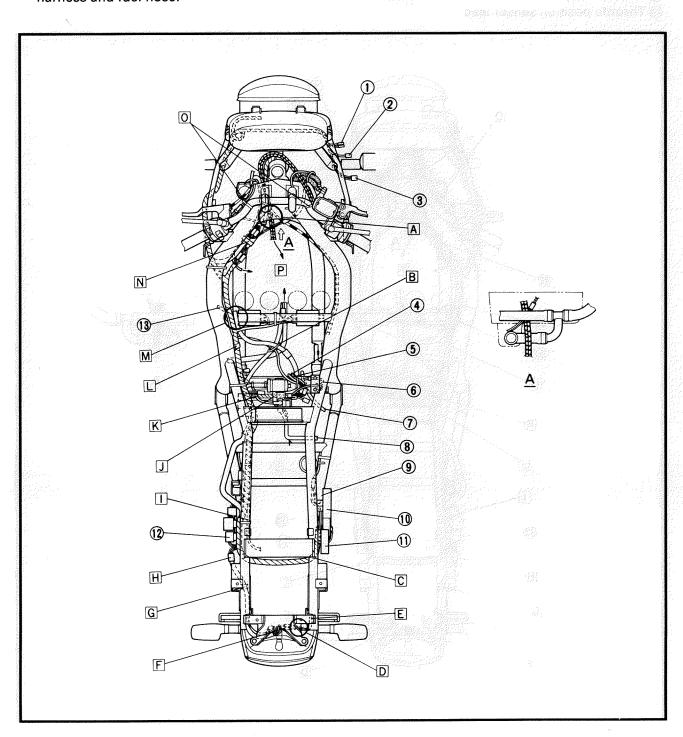


SPEC

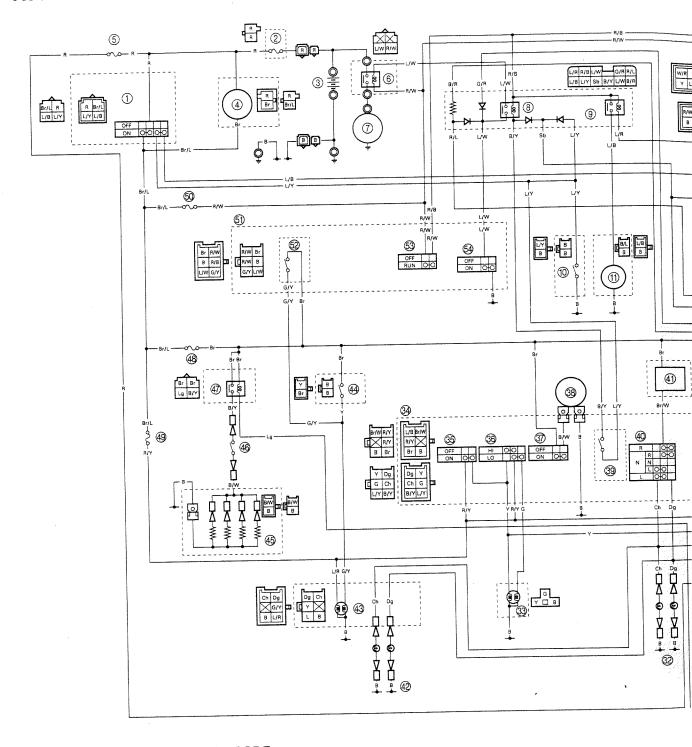


- the rear fender.
- installed, then pass it above the frame and obstruct the front fork spring preload adjustthe bracket of the rear shock absorber. ers.
- K Pass the starter motor lead under the wire P To carburetor harness and fuel hose.

- © Clamp the wire harness to the rear fender at □ Clamp the portion of othe wire harness The surface of the life of the sammarked with white tapelous registered in
- coil together.
- I Pass the seat lock wire outside the rear N Clamp the wire harness and main switch reconstruction of the starter cable.
- ☑ Pass the wire harness underneath the point ☐ Clamp the handlebar switch lead to the hanwhere the rear fender and fuel filter are dlebar. The cables and leads should not



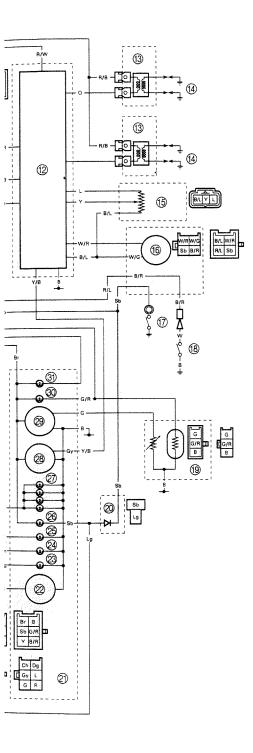
XJ900S H WIRING DIAGRAM (For AUS)



COLOR CODE

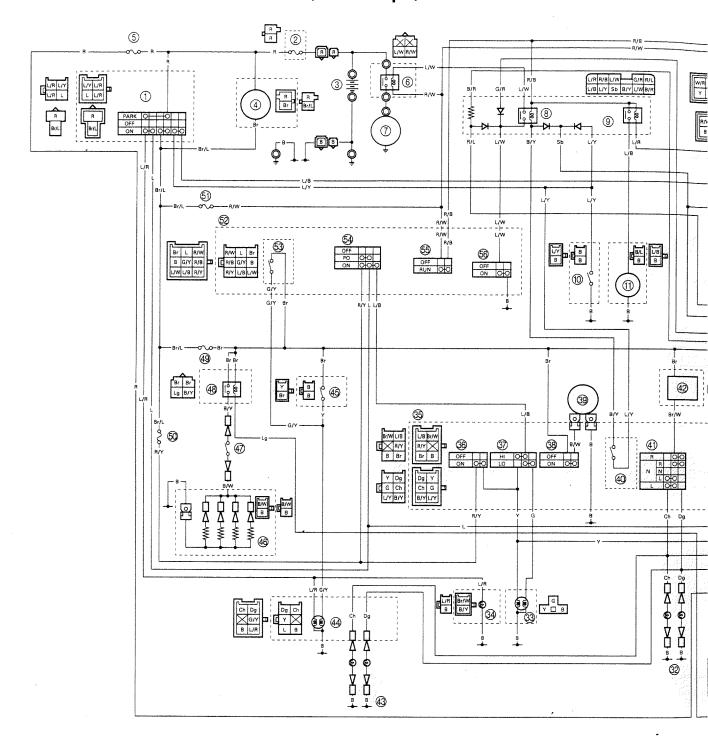
В	Black	0	Orange
Br		R	Red
	Chocolate	Sb	Sky blue
	Dark green	Y	
Ğ		B/L	Black/Blue
Gy			Black/Red
L		B/W	Black/White
	.Light green		Black/Yellow

Br/L.....Brown/Blue
Br/W....Brown/Whit
G/R....Green/Red
G/Y....Green/Yello
L/B....Blue/Black
L/R...Blue/Red
L/W...Blue/White
L/Y....Blue/Yellow



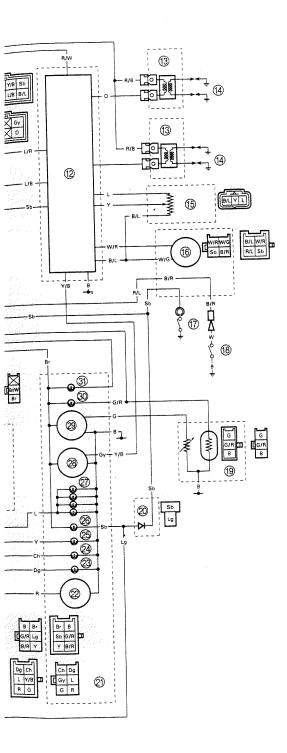
R/B	Red/Black
R/L	Red/Blue
R/W	Red/White
R/Y	Red/Yellow
Y/R	Yellow/Red
W/G	White/Green
W/R	White/Red
	Vellow/Black

XJ900S '96 WIRING DIAGRAM (For Europe)



COLOR CODE

B Black	O Orange	Br/L Brown/Blue
Br Brown	RRed	Br/W Brown/White
Ch Chocolate	SbSky blue	G/R Green/Red
Dg Dark green	Y Yellow	G/Y Green/Yellow
G Green	B/LBlack/Blue	L/B Blue/Black
Gy Gray	B/R Black/Red	L/R Blue/Red
L Blue	B/W Black/White	L/W Blue/White
Lg Light green	B/Y Black/Yellow	L/Y Blue/Yellow



1) Main switch Fuse (main) Battery 4 A.C. generator ⑤ Fuse (clock) Starter relay Starter motor Starter circuit cut-off relay Fuel pump relay Sidestand switch Fuel pump Ignitor unit Ignition coil Spark plug Throttle sensor Pickup coil Neutral switch ® Oil level switch
® Fuel sensor
Diode
Ø Meter assembly
Ø Clock
Ø "TURN" indicato
Ø "HIGH BEAM" in
Ø "NEUTRAL" indi
Ø Meter light
Ø Tachometer
Ø Fuel meter
Ø "FUEL LEVEL" indi
Ø Front flasher light
Ø Headlight
Ø Handlebar switch Oil level switch "TURN" indicator light (right)
"TURN" indicator light (left) "HIGH BEAM" indicator light "NEUTRAL" indicator light "FUEL LEVEL" indicator light "OIL LEVEL" indicator light Front flasher light Handlebar switch (left) ® "PASS" switch ® "LIGHTS" (dim ® "HORN" switch "PASS" switch
"LIGHTS" (dimmer) switch ℬ Horn Clutch switch "TURN" signal switch Flasher relay Rear flasher light Tail/brake light Rear brake switch 46 Heater Thermo switch Heater relay 48 Fuse (signal) 49 Fuse (head) 5 Fuse (ignition) (right) Front brake switch

"ENGINE STOP" switch "START" switch

R/B......Red/Black
R/L.....Red/Blue
R/WRed/White
R/YRed/Yellow
Y/R....Yellow/Red
W/GWhite/Green
W/RWhite/Red
Y/B....Yellow/Black

Э