YAMAHA

XJ600SF
XJ600SFC

SUPPLEMENTARY SERVICE MANUAL

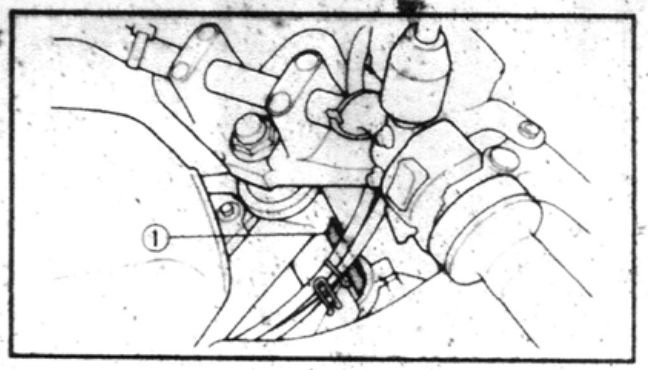
FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data fo
the XJ600SF/XJ600SFC. For complete service information procedures it is necessary to use th
Supplementary Service Manual together with the following manual.

XJ600SD/XJ600SDC SERVICE MANUAL: 4EA-28197-20 (4EA-ME1)

XJ600SF/XJ600SFC
SUPPLEMENTARY
SERVICE MANUAL

1st Edition, March 1993



YB211001

GENERAL INFORMATION

MOTORCYCLE IDENTIFICATION

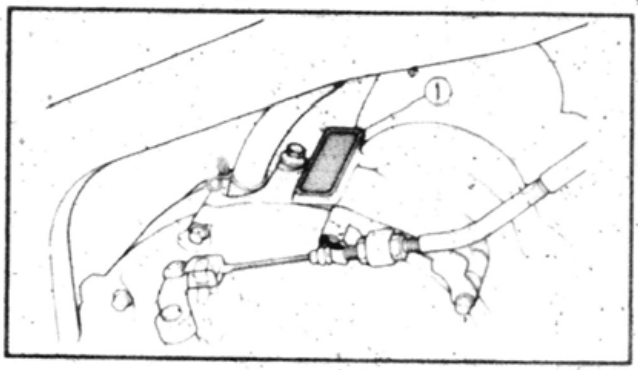
VEHICLE IDENTIFICATION NUMBER

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

Starting serial number:
JYA4DUEO*RA032101 (USA)
JYA4DUCO*RA043101 (California)
JYA4DUNO*RA045101 (CDN)
JYA4EATO*RA002101 (AUS)

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 the engine.

Starting serial number:
XJ600SF ..... 4DU-032101 (USA)
XJ600SFC ... 4DU-043101 (California)
XJ600SF ..... 4DU-045101 (CDN)
XJ600SF ..... 4EA-002101 (AUS)

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	XJ600SF/XJ600SFC	
Model code number:	XJ600SF: 4DU7 (USA) XJ600SFC: 4DU8 (California) XJ600SF: 4DU9 (CDN) XJ600SF: 4EA3 (AUS)	
Vehicle identification number:	JYA4DUEO*RA032101 (USA) JYA4DUCO*RA043101 (California) JYA4DUNO*RA045101 (CDN) JYA4EATO*RA002101 (AUS)	
Engine starting number:	4DU-032101 (USA) 4DU-043101 (California) 4DU-045101 (CDN) 4EA-002101 (AUS)	
Dimensions:		
Overall length	2,095 mm (82.5 in)	
Overall width	750 mm (29.5 in)	
Overall height	1,220 mm (48.0 in)	
Seat height	770 mm (30.3 in)	
Wheelbase	1,445 mm (56.9 in)	
Minimum ground clearance	150 mm (5.91 in)	
Basic weight:		
With oil and full fuel tank	200 kg (441 lb)	
Tire pressure (Cold tire):		
Basic Weight:		
With oil and full fuel tank	200 kg (441 lb) (USA, CDN, AUS) 201 kg (443 lb) (California)	
Maximum load*	197 kg (434 lb) (USA, CDN, AUS) 196 kg (432 lb) (California)	
Cold tire pressure:	Front	Rear
Up to 90 kg (198 lb) load*	200 kPa (2.0 kg/cm², 28 psi)	225 kPa (2.25 kg/cm², 32 psi)
90 kg (198 lb) ~ Maximum load*	200 kPa (2.0 kg/cm², 28 psi)	250 kPa (2.5 kg/cm², 36 psi)
High speed riding	200 kPa (2.0 kg/cm², 28 psi)	250 kPa (2.5 kg/cm², 36 psi)
	* Load is the total weight of cargo, rider, passenger, and accessories	

MAINTENANCE SPECIFICATIONS

ENGINE

Model		XJ600SF/XJ600SFC	
Carburetor:			
Type/Manufacture x quantity		BDS26/MIKUNI x 4	BDST28/MIKUNI x 4
I.D. mark		4DU01 (USA), 4DU 11 (California)	4BR03(CDN, AUS)
Main jet	(M.J.)	#102.5	#1, #4 : #105/ #2, #3 : #102.5
Main air jet	(M.A.J.)	ø1.5	#70
Jet needle-clip position	(J.N.)	4B10	5CT-3.5
Needle jet	(N.J.)	#1, #4 0-4/#2, #3: 0-2	0-4
Pilot jet	(P.J.)	#17.5	#15
Pilot outlet size	(P.O.)	0.8	0.8
Pilot air jet	(P.A.J.)	#145	#145
Pilot screw (turns out)	(P.S.)	2	2
Valve seat size	(V.S.)	1.2	1.0
Starter jet	($G.S._1$)	#20	#47.5
	($G.S._2$)	0.7	0.6
Bypass 1	(B.P.1)	0.8	0.8
Bypass 2	(B.P.2)	0.8 (B.P. 3 : 0.8)	0.8 (B.P. 3 : 0.8)
Throttle valve size	(Th. V.)	#140	#130
Float height	(F.H.)	6.2 ~ 8.2 mm (0.24 ~ 0.32 in)	11 ~ 13 mm (0.43 ~ 0.51 in)
Fuel level	(F.L.)	4 ~ 6 mm (0.16 ~ 0.24 in) Below from the float chamber line	3 ~ 5 mm (0.12 ~ 0.20 in) Above from the float chamber line
Engine idle speed		1,200 ~ 1,400 r/min	1,150 ~ 1,250 r/min
Intake vacuum		29 ~ 30 kPa (220 ~ 230 mmHg, 8.66 ~ 9.06 inHg)	34 ~ 36 kPa (260 ~ 270 mmHg, 10.24 ~ 10.64 inHg)

CHASSIS

Model		XJ600SF/XJ600SFC						
Rear suspension:								
Shock absorber travel		37 mm (1.46 in)						
Spring free length		170.5 mm (6.71 in) (USA, California) 176.5 mm (6.95 in) (CDN, AUS)						
<Limit>		<165 mm (6.51 in)>						
Spring rate	K1	1,600 N/mm (16 kg/mm, 896 lb/in)						
Stroke	K1	0 ~ 37 mm (0 ~ 1.46 in)						
Optional spring		No						
Adjusting position		Hard				STD	Soft	
		7	6	5	4	3	2	1

TIGHTENING TORQUE:

Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m·kg	ft·lb	
Handle crown and inner tube	M 8 x 1.25	23	2.3	17	
Handle crown and steering stem	M 22 x 1.0	110	11.0	80	
Steering stem and ring nut	M 25 x 1.0	18	1.8	13	See NOTE.
Inner tube and under bracket	M 8 x 1.25	38	3.8	27	
Under bracket and brake hose holder	M 6 x 1.0	10	1.0	7.2	
Brake hose and union bolt	M 10 x 1.25	30	3.0	22	
Cowl and stay 1	M 5 x 0.8	0.5	0.05	0.4	
Cowl and screen	M 5 x 0.8	0.5	0.05	0.4	
Cowl stay 1 and frame	M 8 x 1.25	16	1.6	11	
Meter and stay 1	M 6 x 1.0	7	0.7	5.1	
Handlebar and grip end	M 16 x 1.5	26	2.6	19	
Front master cylinder and bracket	M 6 x 1.0	9	0.9	6.5	
Front master cylinder and cap	M 4 x 0.7	1.5	0.15	1.1	
Handle crown and holder upper	M 8 x 1.25	23	2.3	17	
Handle crown and main switch	M 8 x 1.25	29	2.9	21	
Front flasher light and stay	M 12 x 1.25	4	0.4	2.9	
Head light and stay 2	M 8 x 1.25	7	0.7	5.1	
Cowl and stay 2	M 5 x 0.8	7	0.7	5.1	
Engine mount (upper)	M 10 x 1.25	60	6.0	43	
(lower)	M 10 x 1.25	60	6.0	43	
(rear)	M 12 x 1.25	88	8.8	64	
Engine stay and frame	M 10 x 1.25	46	4.6	33	
Pivot shaft and nut	M 14 x 1.5	91	9.1	66	
Rear shock absorber and rear arm	M 12 x 1.25	64	6.4	46	
Rear shock absorber and frame	M 12 x 1.25	64	6.4	46	
Chain case and rear arm	M 6 x 1.0	7	0.7	5.1	
Seal guard	M 6 x 1.0	7	0.7	5.1	
Fuel cock and fuel tank	M 6 x 1.0	7	0.7	5.1	
Fuel tank bracket and fuel tank	M 6 x 1.0	7	0.7	5.1	
Fuel tank bracket and frame	M 6 x 1.0	15	1.5	11	
Fuel tank and frame	M 8 x 1.25	15	1.5	11	
Rotor assembly and frame	M 6 x 1.0	4	0.4	2.9	
Rear fender and frame	M 6 x 1.0	7	0.7	5.1	
Tail light	M 6 x 1.0	7	0.7	5.1	
Rear fender cover and side cover	M 5 x 0.8	4	0.4	2.9	
Rectifier/Regulator	M 6 x 1.0	7	0.7	5.1	
Side cover	M 5 x 0.8	4	0.4	2.9	
Rear fender stay and frame	M 6 x 1.0	10	1.0	7.2	
Ignitor unit		1.5	0.15	1.1	
Fuse box		1.5	0.15	1.1	
Rear flasher light	M 12 x 1.25	4	0.4	2.9	
Reflector bracket	M 4 x 1.5	1.5	0.15	1.1	
Front wheel axle	M 16 x 1.5	59	5.9	43	
Rear wheel axle and nut	M 16 x 1.5	105	10.5	75	
Front caliper and front fork	M 10 x 1.25	35	3.5	25	
Rear caliper and caliper bracket	M 10 x 1.25	35	3.5	25	
Caliper bracket and compression bar	M 8 x 1.25	30	3.0	22	
Rear arm and compression bar	M 8 x 1.25	30	3.0	22	
Brake disc and wheel (front and rear)	M 8 x 1.25	20	2.0	14	LT
Rear wheel sprocket and clutch hub	M 10 x 1.25	60	6.0	43	
Bleed screw and caliper	M 7 x 1.0	6	0.6	4.3	
Front wheel axle pinch bolt	M 8 x 1.25	19	1.9	13	
Front fender and front fork	M 6 x 1.0	9	0.9	6.5	

TIGHTENING TORQUE:

Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m • kg	ft • lb	
Brake hose holder and front fork	M 6 x 1.0	7	0.7	5.1	
Sidestand	M 10 x 1.25	40	4.0	29	
Sidestand and locknut	M 10 x 1.25	40	4.0	29	
Rear master cylinder and footrest bracket	M 8 x 1.25	23	2.3	17	
Rear brake reservoir tank	M 6 x 1.0	4	0.4	2.9	
Footrest frame and frame	M 8 x 1.25	23	2.3	17	
Shift pedal	M 8 x 1.25	30	3.0	22	

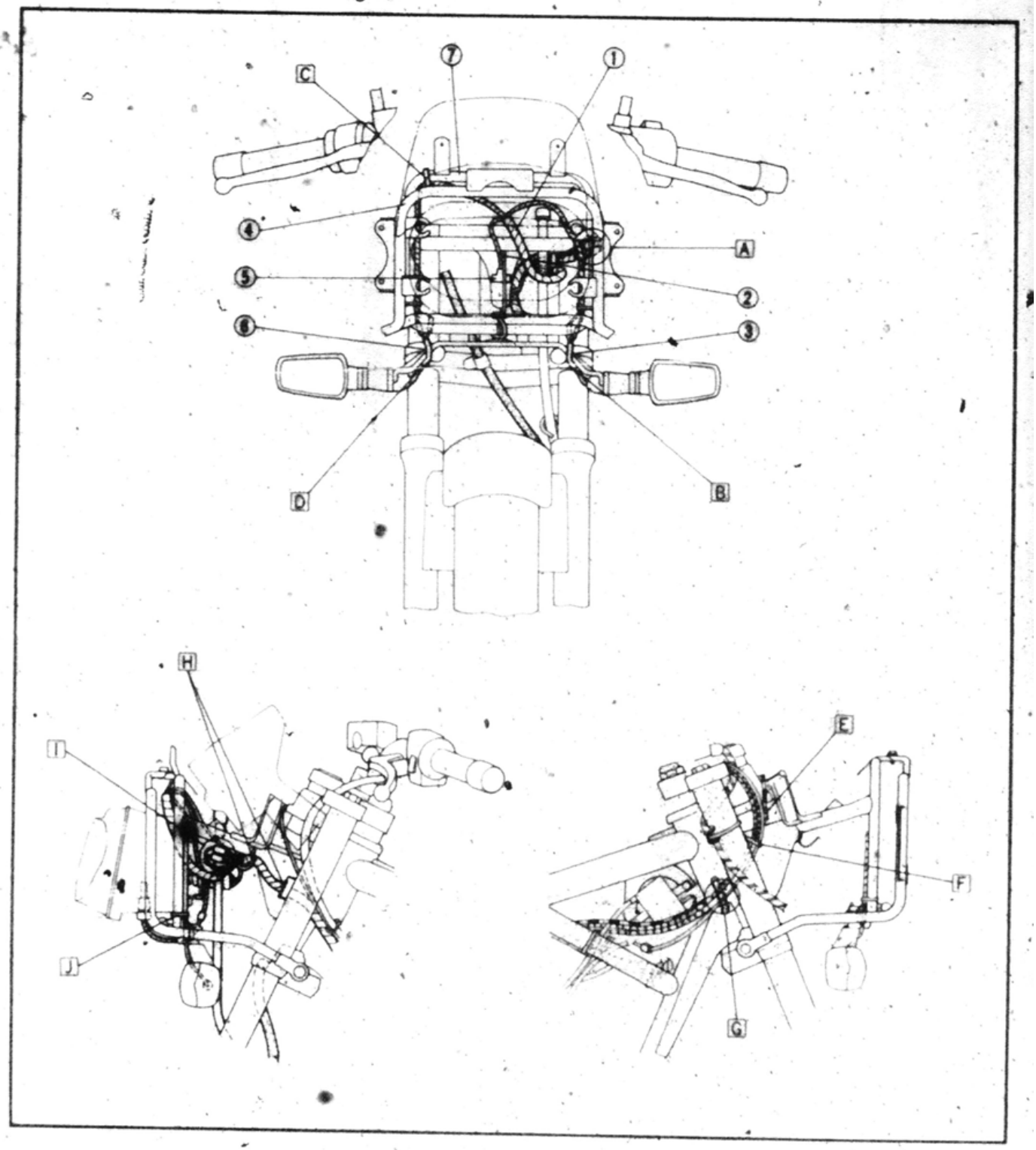
NOTE:

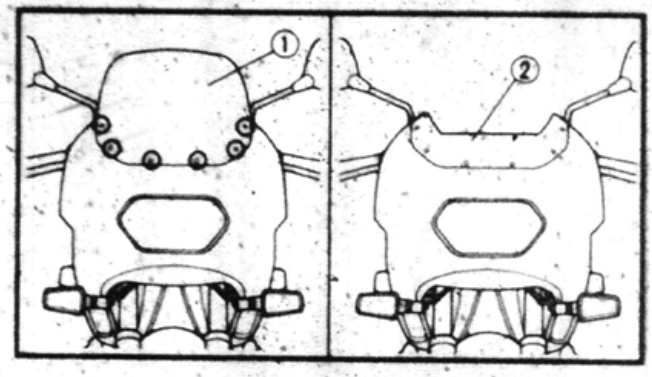
1. First, tighten the ring nut approximately 52 Nm (5.2 m • kg, 37 ft • lb) by using the torque wrench, then loosen the ring nut one turn.
2. Retighten the ring nut to specification.

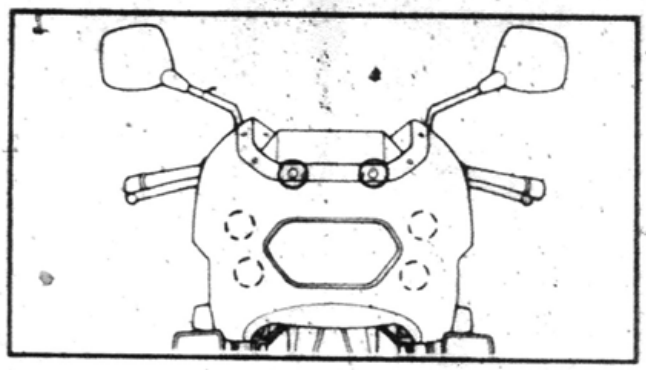
CABLE ROUTING

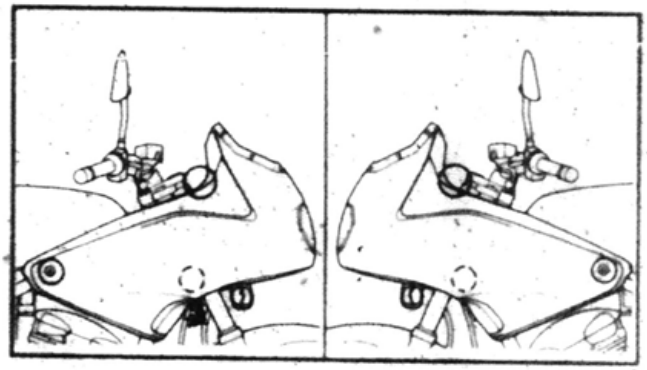
① Meter light lead
② Headlight lead
③ Flasher light lead (left)
④ Cowling stay 2
⑤ Headlight coupler
⑥ Flasher light lead (right)
⑦ Cowling stay 1

Ⓐ Keep the couplers inside of the cowling stay.
Ⓑ Clamp the flasher light lead (left).
Ⓒ Clamp the flasher light lead (right) to the cowling stay.
Ⓓ Clamp the flasher light lead (right).
Ⓔ Clamp the clutch cable (grommet). and throttle cable 2 (no adjuster).
Ⓕ Clamp the clutch cable, throttle cables and handlebar switch lead (right).
Ⓖ Clamp the handlebar switch lead (right), clutch cable and throttle cables.
Ⓗ Clamp the wireharness to the cowling stay.
Ⓘ Keep the couplers inside of the cowling stay.
Ⓙ Clamp the flasher light lead (left).









PERIODIC INSPECTION AND ADJUSTMENT

COWLING

REMOVAL

1. Remove:
- Windscreen ①
- Inner panel ②

2. Remove:
- Cowling

INSTALLATION

Reverse the "REMOVAL" procedure.
Note the following points.

1. Install:
- Cowling
- Inner panel
- Wind screen

Bolt (cowling and stay 1):
0.5 Nm (0.05 m · kg, 0.4 ft · lb)
Bolt (cowling and stay 2):
7 Nm (0.7 m · kg, 5.1 ft · lb)
Screw (cowling and screen):
0.5 Nm (0.05 m · kg, 0.4 ft · lb)