



YAMAHA

XJ700S/SC

**SUPPLEMENTAL
Service Manual**

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and new data for the XJ700S/SC. For complete information on service procedures, it is necessary to use this Supplementary Service Manual together with following manual:

XJ700N/XJ700NC Service Manual LIT-11616-04-85

**XJ700S/XJ700SC
SUPPLEMENTARY SERVICE MANUAL**
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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 XJ700S/XJ700SC. Please read this material carefully.

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

HOW TO USE THIS MANUAL

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.

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

CAUTION: A CAUTION indicates special procedures that must be followed to avoid damage to the motorcycle.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury to a motorcycle operator or person inspecting or repairing the motorcycle.

MANUAL FORMAT

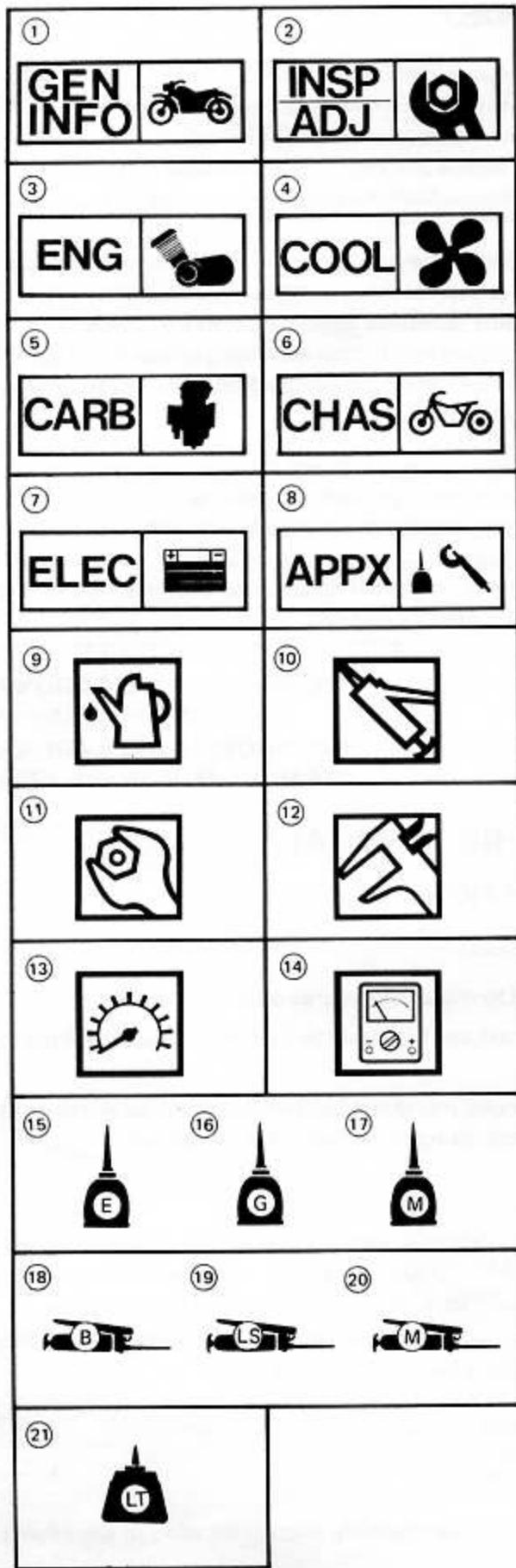
All of the procedures in this manual are organized in sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

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
Pitting/Damage → Replace.

EXPLODED DIAGRAM

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



ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑧ are designed as thumb tabs to indicate the chapter's number and content.

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

Illustrated symbols ⑨ to ⑯ are used to identify the specifications appearing in the text.

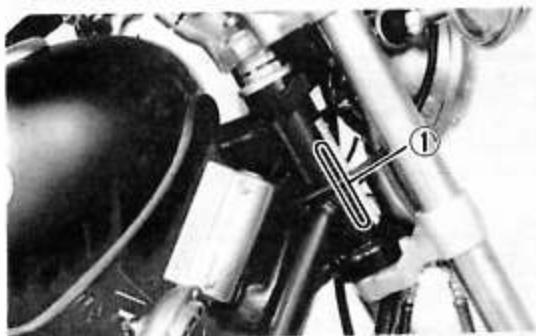
- ⑨ Filling fluid
- ⑩ Lubricant
- ⑪ Tightening
- ⑫ Wear limit, clearance
- ⑬ Engine speed
- ⑭ Ω , V, A

Illustrated symbols ⑮ to ㉑ in the exploded diagram indicate grade of lubricant and location of lubrication point.

- ⑮ Apply engine oil
- ⑯ Apply gear oil
- ⑰ Apply molybdenum disulfide oil
- ⑱ Apply wheel bearing grease
- ⑲ Apply lightweight lithium-soap base grease
- ⑳ Apply molybdenum disulfide grease
- ㉑ Apply locking agent (LOCTITE®)

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GENERAL INFORMATION

MOTORCYCLE IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

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

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.

Vehicle Identification Number:

XJ700S (Except for California):

JYA1NH00 * GA000101

XJ700SC (For California):

JYA1NK00 * GA000101



ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the elevated part of the left rear section of the engine.

NOTE: _____

The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.

Stating Serial Number:

XJ700S (Except for California)

..... 1NH-000101

XJ700SC (For California)

..... 1NK-000101

NOTE: _____

Designs and specifications are subject to change without notice.





PERIODIC INSPECTIONS AND ADJUSTMENTS

INTRODUCTION

This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

MAINTENANCE INTERVALS CHARTS

Proper periodic maintenance is important. Especially important are the maintenance services related to emissions control. These controls not only function to ensure cleaner air but are also vital to proper engine operation and maximum performance. In the following maintenance tables, the services related to emissions control are grouped separately.

PERIODIC MAINTENANCE EMISSION CONTROL SYSTEM

ITEM	REMARKS	INITIAL	ODOMETER READING				
		1,000 km (600 mi) or 1 month	**1 7,000 km (4,400 mi) or 7 months	**2 13,000 km (8,200 mi) or 13 months	19,000 km (12,000 mi) or 19 months	25,000 km (15,800 mi) or 25 months	31,000 km (19,600 mi) or 31 months
Valve clearance	Check and adjust valve clearance when engine is cold.					○	
Spark plug	Check condition. Adjust gap and clean. Replace at 13,000 km (or 13 months) and thereafter every 12,000 km (or 12 months).		○	Replace	○	Replace	○
Crankcase ventilation system	Check ventilation hose for cracks or damage. Replace if necessary.		○		○		○
Fuel line	Check fuel hose and vacuum pipe for cracks or damage. Replace if necessary.		○	○	○	○	○
Exhaust system	Check for leakage. Retighten if necessary. Replace gasket(s) if necessary.		○	○	○	○	○
Idle speed	Check and adjust engine idle speed. Adjust cable free play.		○	○	○	○	○
Carburetor synchronization	Adjust synchronization of carburetors.	○	○	○	○	○	○

* It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

NOTE:

For further odometer reading, repeat the above maintenance at the period established; **1: Every 6,000 km (3,800 mi) **2: Every 12,000 km (7,600 mi) intervals.

GENERAL MAINTENANCE/LUBRICATION

INSP	ADJ
------	-----

GENERAL MAINTENANCE/LUBRICATION

No.	ITEM	REMARKS	TYPE	INITIAL	ODOMETER READINGS				
				1,000 km (600 mi) or 1 month	**1 7,000 km (4,400 mi) or 7 months	**2 13,000 km (8,200 mi) or 13 months	**3 19,000 km (12,000 mi) or 19 months	**4 25,000 km (15,800 mi) or 25 months	31,000 km (19,600 mi) or 31 months
1	Engine oil	Warm-up engine before draining.		○	○	○	○	○	○
2	Oil filter	Replace.	—	○		○		○	
3*	Air filter	Clean with compressed air. Replace if necessary.	—		○	○	○	○	○
4*	Brake system	Adjust free play. Replace pads if necessary. (Front) Replace shoes if necessary (Rear)	—	○	○	○	○	○	○
5*	Clutch	Adjust free play.	—	○	○	○	○	○	○
6	Final gear oil	Check oil level and leakage. Replace every 24,000 km (15,000 mi) or 24 months.	SAE80 API GL-4 hypoid gear oil	Replace		○		Replace	
7*	Control and meter cable	Apply chain lube thoroughly.	Yamaha chain and cable lube or SAE 10W30 motor oil.	○	○	○	○	○	○
8*	Rear arm pivot shaft	Check bearings assembly for looseness. Moderately repack every 24,000 km (15,200 mi)	Medium weight wheel bearing grease					○	
9	Brake/Clutch lever pivot shaft.	Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		○	○	○	○	○
10	Brake pedal and change pedal shaft	Lubricate. Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		○	○	○	○	○
11*	Center/Side stand pivots	Check operation and lubricate. Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		○	○	○	○	○
12*	Front fork oil	Check operation and leakage.	—		○	○	○	○	○

INSP
ADJ

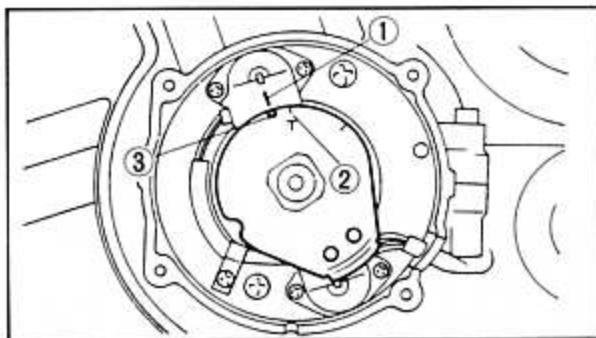
GENERAL MAINTENANCE/LUBRICATION

No.	ITEM	REMARKS	TYPE	INITIAL	ODOMETER READINGS				
				1,000 km (600 mi) or 1 month	**1 7,000 km (4,400 mi) or 7 months	**2 13,000 km (8,200 mi) or 13 months	**3 19,000 km (12,000 mi) or 19 months	**4 25,000 km (15,800 mi) or 25 months	31,000 km (19,600 mi) or 31 months
13*	Steering bearings	Check bearings assembly for looseness. Moderately repack every 24,000 km (15,000 mi)	Medium weight wheel bearing grease		○	○	○	○	○
14*	Wheel bearings	Check bearings for smooth rotation.	—		○	○	○	○	○
15	Battery	Check specific gravity and breather pipe for proper operation.	—		○	○	○	○	○
16*	A.C. Generator	Replace generator brushes.	—			○		○	
17	Sidestand switch	Check and clean or replace if necessary.	—	○	○	○	○	○	○

* It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

NOTE:

For farther odometer reading repeat the above maintenance at the period established; **1: Every 6,000 km (3,800 mi), **2: Every 12,000 km (7,600 mi), **3: Every 18,000 km (11,400 mi), **4: Every, 24,000 km (15,200 mi) intervals.

**IGNITION TIMING CHECK**

Flywheel is marked as follows:

- ① Pickup coil mark
- ② TDC for No. 1 cylinder
- ③ Firing range for the No. 1 cylinder

1. Check:

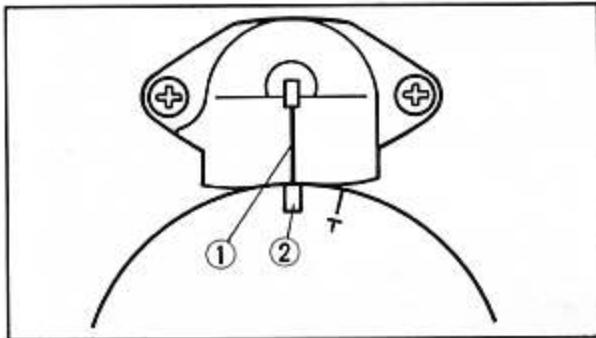
- Ignition timing

Ignition timing check steps:

- Remove the cover.
- Connect the Timing Light (YU-08037) ① to No. 1 cylinder spark plug lead.
- Warm up the engine and let it idle at the specified idle speed of $1,050 \pm 50$ r/min.
- Visually check the upper pickup coil mark ① is within the firing range ② indicated on timing plate.

Incorrect firing → Check timing plate and/or pickup assembly (tightness damage)

Refer to CHARTER 6, "ELECTRICAL" for further information.



- ① Pickup coil mark.

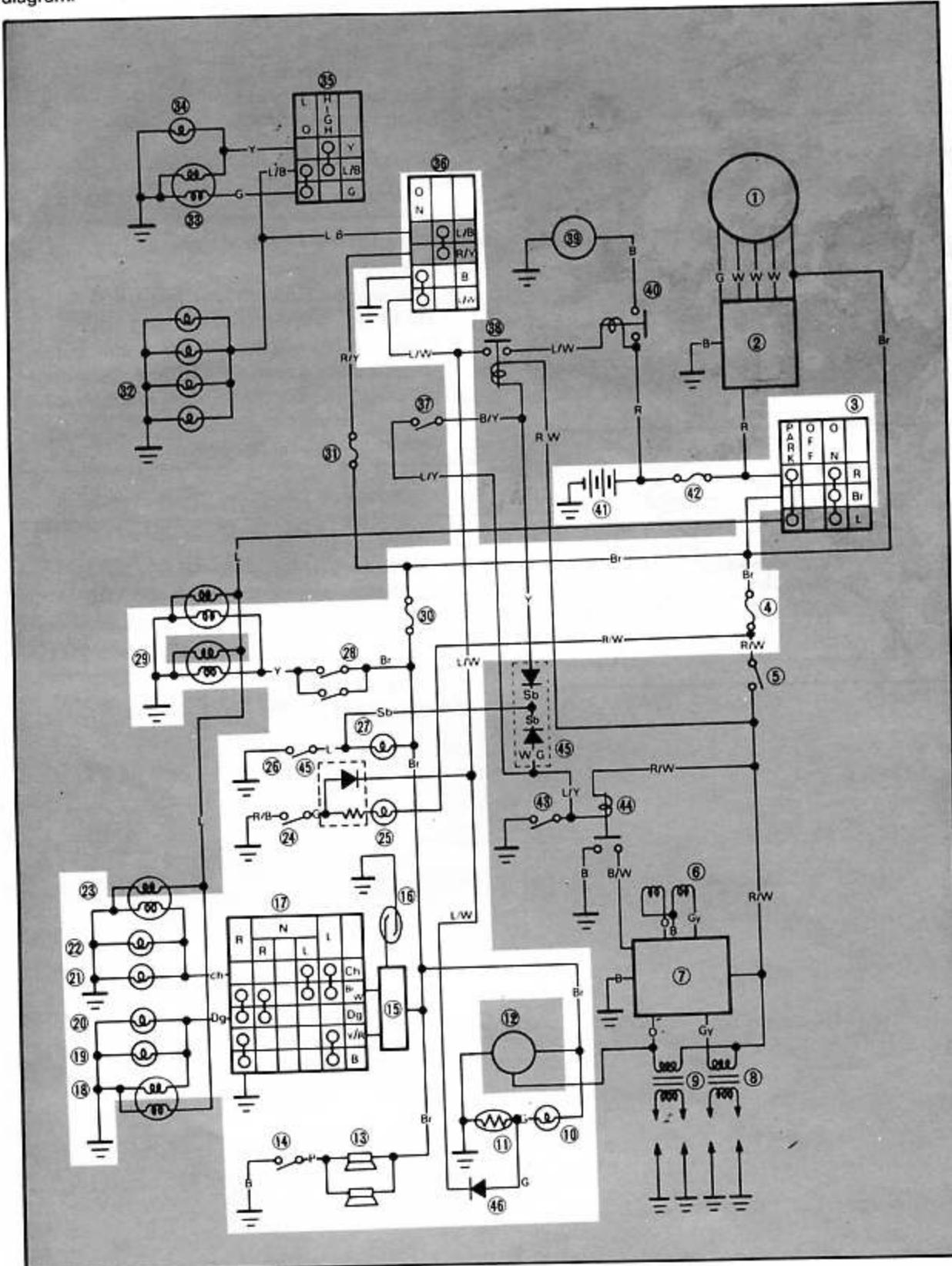
- ② Firing range for the No. 1 cylinder



SIGNAL SYSTEM

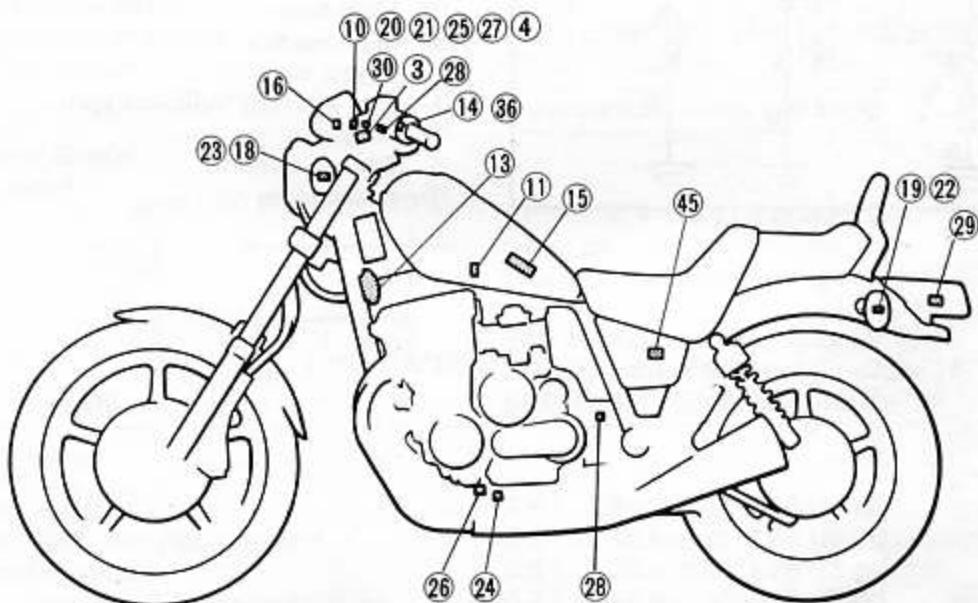
CIRCUIT DIAGRAM

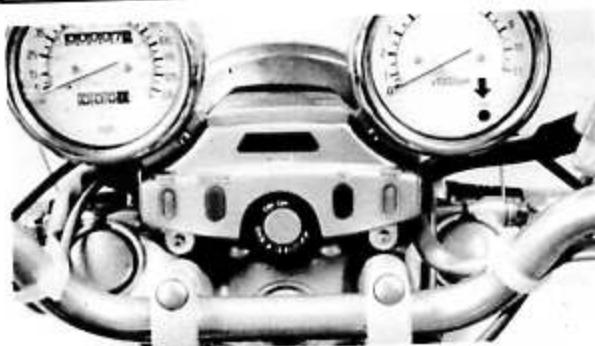
Below circuit diagram shows signal circuit in wiring diagram.





- | | |
|----------------------------------|-------------------------------------|
| ③ Main switch | ②2 Flasher light (Rear, Left) |
| ④ Fuse "IGNITION" (10A) | ②3 Flasher light (Front, Left) |
| ⑩ "FUEL" indicator light | ②4 Oil level switch |
| ⑪ Fuel sender | ②5 "OIL" indicator light |
| ⑬ Horn | ②6 Neutral switch |
| ⑭ Horn switch | ②7 "NEUTRAL" indicator light |
| ⑮ Flasher relay (Relay assembly) | ②8 Brake switch |
| ⑯ Reed switch | ②9 Tail/Brake light |
| ⑲ Flasher light (Front, Right) | ⑩ Fuse "SIGNAL" (15A) |
| ⑲ Flasher light (Rear, Right) | ⑯ Sta ter switch |
| ⑳ "TURN" indicator light (Right) | ④5 Diode assembly |
| ㉑ "TURN" indicator light (Left) | ④6 Diode (Included in wire harness) |





FUEL WARNING INDICATOR LIGHT

1. Troubleshooting

Fuel warning indicator light is lighted when the starter switch is pushed in full fuel tank condition.

OK

NO

Fuel warning indicator light is not lighted in low fuel level condition.

Check fuel sender, replace if necessary.

Check diode and starter switch continuity.

Indicator light is burned. Replace.

Measure voltage at fuel sender unit (Green).

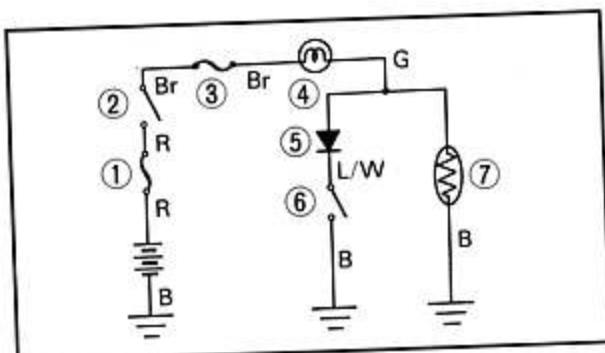
No voltage

12V

Measure voltage at indicator light (Brown).

12V

No voltage
The lead from fuse to indicator light is faulty. Repair.



- ① Main fuse
- ② Main switch
- ③ Signal fuse
- ④ Fuel warning indicator light
- ⑤ Diode
- ⑥ Starter switch
- ⑦ Fuel sender



SPECIFICATIONS

GENERAL SPECIFICATIONS

Item	Model XJ700S/SC									
Model:	XJ700S	XJ700SC								
Model Code Number	1NH	1NK								
Federal V.I.N. Number	JYA1NH00*GA000101	JAY1NK*GA000101								
Engine Starting Number	1NH-000101	1NK-000101								
Dimensions:										
Overall Length	2,235 mm (88.0 in)									
Overall Width	775 mm (30.5 in)									
Overall Height	1,160 mm (45.7 in)									
Seat Height	750 mm (29.5 in)									
Wheelbase	1,520 mm (59.8 in)									
Minimum Ground Clearance	145 mm (5.7 in)									
Basic Weight:										
With Oil and Full Fuel Tank	224 kg (494 lb)									
Minimum Turning Radius:	2,800 mm (110.2 in)									
Engine:										
Engine Type	Air cooled 4-stroke, gasoline, DOHC									
Cylinder Arrangement	4-cylinder parallel									
Displacement	696 cm ³ (42.47 cu.in)									
Bore × Stroke	65.0 × 52.4 mm (2.559 × 2.063 in)									
Compression Ratio	9.5 : 1									
Compression Pressure	1,078 kPa (11 kg/cm ² , 156 psi) at 300 r/min									
Starting System	Electric starter									
Lubrication System:	Pressure lubricated, wet sump									
Oil Type or Grade:										
Engine Oil	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>30°F</td><td>40°F</td><td>50°F</td><td>60°F</td> </tr> <tr> <td>0°C</td><td>5°C</td><td>10°C</td><td>15°C</td> </tr> </table>		30°F	40°F	50°F	60°F	0°C	5°C	10°C	15°C
30°F	40°F	50°F	60°F							
0°C	5°C	10°C	15°C							
	Yamalube 4-cycle oil or SAE 20W40 type SE motor oil (If temperature does not go below 5°C (40°F).)									
Final Gear Oil	SAE 10W30 type SE motor oil (If temperature does not go above 15°C (60°F).) SAE 80 API "GL-4" Hypoid gear oil									
Oil Capacity:										
Engine Oil:										
Periodic Oil Change	2.5 L (3.20 Imp qt, 2.64 US qt)									
With Oil Filter Replacement	2.8 L (2.46 Imp qt, 2.96 US qt)									
Total Amount	3.5 L (3.08 Imp qt, 3.70 US qt)									
Final Gear Case Oil Amount	0.2 L (0.18 Imp qt, 0.22 US qt)									
Air Filter:	Dry type element									
Fuel:										
Type	Regular gasoline									
Tank Capacity	13 L (2.86 Imp gal, 3.43 US gal)									
Reserve Amount	3.0 L (0.66 Imp gal, 0.79 US gal)									
Carburetor:										
Type	HSC33 × 4, Constant velocity									
Manufacturer	HITACHI									



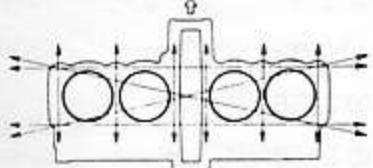
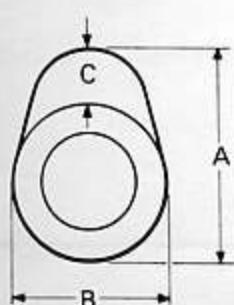
Item	Model	XJ700S/SC													
Spark Plug: Type/Manufacturer Gap	BP8ES/NGK or W24EP-U/NIPPONDENSO 0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)														
Clutch Type:	Wet, multiple-disc														
Transmission: Primary Reduction System Primary Reduction Ratio Secondary Reduction System Secondary Reduction Ratio Transmission Type Operation Gear Ratio	Spur gear 97/58 (1.672) Shaft drive 49/36 × 19/18 × 32/11 (4.179) Constant-mesh, 5-speed Left foot operation 1st 35/16 (2.188) 2nd 30/20 (1.500) 3rd 30/26 (1.154) 4th 28/30 (0.933) 5th 26/32 (0.813)														
Chassis: Frame Type Caster Angle Trail	Tubular steel, double cradle 31.5° 120 mm (4.72 in)														
Tire: Type Size (F) Size (R)	Tubeless 100/90-19 57H 130/90-16 67H														
Tire Pressurer (Cold Tire):	<table border="1"> <thead> <tr> <th></th> <th>FRONT</th> <th>REAR</th> </tr> </thead> <tbody> <tr> <td>Up to 90 kg (198 lb) load*</td> <td>177 kPa (1.8 kg/cm², 26 psi)</td> <td>196 kPa (2.0 kg/cm², 28 psi)</td> </tr> <tr> <td>90 kg (198 lb) load~246 kg (542 lb) load*</td> <td>196 kPa (2.0 kg/cm², 28 psi)</td> <td>274 kPa (2.8 kg/cm², 40 psi)</td> </tr> <tr> <td>High Speed Riding</td> <td>206 kPa (2.1 kg/cm², 30 psi)</td> <td>226 kPa (2.3 kg/cm², 32 psi)</td> </tr> </tbody> </table>			FRONT	REAR	Up to 90 kg (198 lb) load*	177 kPa (1.8 kg/cm ² , 26 psi)	196 kPa (2.0 kg/cm ² , 28 psi)	90 kg (198 lb) load~246 kg (542 lb) load*	196 kPa (2.0 kg/cm ² , 28 psi)	274 kPa (2.8 kg/cm ² , 40 psi)	High Speed Riding	206 kPa (2.1 kg/cm ² , 30 psi)	226 kPa (2.3 kg/cm ² , 32 psi)	
	FRONT	REAR													
Up to 90 kg (198 lb) load*	177 kPa (1.8 kg/cm ² , 26 psi)	196 kPa (2.0 kg/cm ² , 28 psi)													
90 kg (198 lb) load~246 kg (542 lb) load*	196 kPa (2.0 kg/cm ² , 28 psi)	274 kPa (2.8 kg/cm ² , 40 psi)													
High Speed Riding	206 kPa (2.1 kg/cm ² , 30 psi)	226 kPa (2.3 kg/cm ² , 32 psi)													
	*Load is the total weight of cargo, rider, passenger, and accessories.														
Brake: Front Brake Type Operation Rear Brake Type Operation	Dual disc brake Right hand operation Drum brake Right foot operation														
Suspension: Front Suspension Rear Suspension	Telescopic fork Swingarm														
Shock Absorber: Front Shock Absorber Rear Shock Absorber	Coil spring, oil damper Coil spring, oil damper														
Wheel Travel: Front Wheel Travel Rear Wheel Travel	150 mm (5.9 in) 99 m m(3.9 in)														
Electrical: Ignition System Generator System Battery Type or Model Battery Capacity	T.C.I. A.C. Generator YB14L 12V 14AH														



Item	Model	XJ700S/SC
Headlight Type:		Semi-sealed beam, (Quartz bulb)
Bulb Wattage/Quantity:		
Headlight		60W/55W
Tail/Brake Light		8W/27W × 2
Flasher Light		27W × 4
Indicator Light:		
Meter Light		3W × 4
Wattage/Quantity:	"NEUTRAL" "HIGH BEAM" "TURN" "OIL LEVEL" "FUEL LEVEL"	3W × 1 3W × 1 3W × 2 3W × 1 3W × 1

MAINTENANCE SPECIFICATIONS

ENGINE

Item	Model	XJ700S/SC
Cylinder Head: Warp Limit		0.03 mm (0.001 in) *Lines indicate straightedge measurement.
		
Cylinder: Bore Size Taper Limit Out-of Round Limit		65.0 mm (2.559 in) 0.05 mm (0.002 in) 0.01 mm (0.0004 in)
Camshaft: Drive Method Cam Cap Inside Diameter Camshaft Outside Diameter Shaft to Cap Clearance Cam Dimensions:		Chain drive (Center) $25^{+0.021}_0$ mm (0.9448 ^{+0.0008} in) $25^{-0.020}_{-0.033}$ mm (0.9448 ^{-0.0008} in) 0.020 ~ 0.054 mm (0.0008 ~ 0.0021 in)
		
Intake	"A" <Limit> "B" <Limit> "C"	36.80 mm (1.449 in) 36.65 mm (1.443 in) 28.10 mm (1.106 in) 27.85 mm (1.096 in) 8.80 mm (0.346 in)
Exhaust	"A" <Limit> "B" <Limit> "C"	36.30 mm (1.429 in) 35.65 mm (1.404 in) 28.06 mm (1.105 in) 27.85 mm (1.096 in) 8.3 mm (0.327 in)



Item	Model	XJ700S/SC	
Camshaft Runout Limit	0.06 mm (0.0024 in)		
Cam Chain Type/Number of Links	Bush chain/120		
Cam Chain Adjustment Method	Automatic		
Valve, Valve Seat, Valve Guide:			
Valve Clearance (Cold)	IN. EX.	0.11 ~ 0.15 mm (0.0043 ~ 0.0059 in) 0.16 ~ 0.20 mm (0.0063 ~ 0.0099 in)	
Valve Dimensions			
	Face Width	"B"	
	Seat Widthe	"C"	
	Margin thickness	"D"	
"A" Head Dia.	IN. EX.	34 ± 0.1 mm (1.339 ± 0.004 in) 28 ± 0.1 mm (0.1024 ± 0.004 in)	
"B" Face Width	IN. EX.	2.3 mm (0.0906 in) 2.3 mm (0.0906 in)	
"C" Seat Width	IN. EX.	1.0 ± 0.1 mm (0.0394 ± 0.004 in) 1.0 ± 0.1 mm (0.0394 ± 0.004 in)	
"D" Margin Thickness Limit	IN. EX.	1.2 ± 0.2 mm (0.0472 ± 0.008 in) 1.0 ± 0.2 mm (0.0394 ± 0.008 in)	
Stem Outside Diameter	IN. EX.	7 ^{-0.010} _{-0.025} mm (0.2756 ^{-0.0004} _{-0.0010} in) 7 ^{-0.025} _{-0.040} mm (0.2756 ^{-0.0010} _{-0.0016} in)	
Guide Inside Diameter	IN. EX.	7 ^{+0.012} ₀ mm (0.2756 ^{+0.0005} ₀ in) 7 ^{+0.012} ₀ mm (0.2756 ^{+0.0005} ₀ in)	
Stem-to Guide Clearance	IN. EX.	0.010 ~ 0.037 mm (0.0004 ~ 0.0015 in) 0.025 ~ 0.052 mm (0.0010 ~ 0.0020 in)	
Stem Runout Limit		0.03 mm (0.001 in)	
Valve Spring:			
Free Length			
Inner Spring	IN. EX.	35.9 mm (1.413 in) 35.9 mm (1.413 in)	
Outer Spring	IN. EX.	39.5 mm (1.555 in) 39.5 mm (1.555 in)	
Installed Length (Valve Closed)			
Inner Spring	IN. EX.	31.0 mm (1.220 in) 31.0 mm (1.220 in)	
Outer Spring	IN. EX.	34.0 mm (1.339 in) 34.0 mm (1.339 in)	



Item	Model	XJ700S/SC			
Tilt Limit Inner Spring Outer Spring	IN. & EX. IN. & EX.	2.5°, 1.6 mm (0.063 in) 2.5°, 1.6 mm (0.063 in)			
Direction of Winding		Inner Spring IN Left	Outer Spring EX Right		
Piston: Piston Size/ Measuring Point*		65.00 ^{-0.030} _{-0.045} mm (2.5591 ^{-0.0012} _{-0.0018} in) 7.5 mm (0.295 in) (From bottom line of piston skirt)			
Clearance Between Piston & Cylinder <Limit>		0.030 ~ 0.050 mm (0.0012 ~ 0.0020 in)			
Oversize:	2nd 4th	0.1 mm (0.004 in) 65.50 mm (2.58 in) 66.00 mm (2.60 in)			
Piston Ring: Sectional Sketch		Top Ring 	Barrel B = 1.0 mm (0.039 in) T = 2.6 mm (0.102 in)		
		2nd Ring 	Taper B = 1.0 mm (0.039 in) T = 2.6 mm (0.102 in)		
		Oil Ring 	Expander B = 2.5 mm (0.098 in) T = 2.8 mm (0.110 in)		
End Gap (Installed):		Top Ring <Limit> 2nd Ring <Limit> Oil Ring <Limit>	0.15 ~ 0.30 mm (0.0059 ~ 0.0118 in) 1.0 mm (0.039 in) 0.15 ~ 0.30 mm (0.0059 ~ 0.0118 in) 1.0 mm (0.039 in) 0.2 ~ 0.7 mm (0.008 ~ 0.028 in) 1.5 mm (0.059 in)		
Side Clearance:		Top Ring <Limit> 2nd Ring <Limit> Oil Ring	0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in) 0.15 mm (0.0059 in) 0.02 ~ 0.06 mm (0.0008 ~ 0.0024 in) 0.15 mm (0.0059 in) 0 mm (0 in)		



Item	Model	XJ700S/SC
Connecting Rod: Oil Clearance Color Code (Corresponding Size)		0.016 ~ 0.058 mm (0.0006 ~ 0.0023 in) 1. Blue 2. Black 1.5 ^{+0.006} _{+0.002} mm 1.5 ^{+0.002} _{-0.002} mm (0.0591 ^{+0.00024} _{+0.00007} in) (0.0591 ^{+0.00007} _{-0.00007} in) 3. Brown 4. Green 1.5 ^{-0.002} _{-0.006} mm 1.5 ^{-0.006} _{-0.010} mm (0.0591 ^{-0.00007} _{-0.00024} in) (0.0591 ^{-0.00024} _{-0.00039} in)
Crankshaft:		
Crank Width "A" Runout Limit "B" Big End Side Clearance "C" Journal Clearance		341.4 ± 0.6 mm (13.441 ± 0.024 in) 0.03 mm (0.0002 in) 0.160 ~ 0.262 mm (0.0063 ~ 0.0103 in) 0.016 ~ 0.058 mm (0.0006 ~ 0.0023 in)
Clutch: Friction Plate Thickness/Quantity Wear Limit Clutch Plate Thickness/Quantity Warp Limit Clutch Spring Free Length/Quantity Clutch Spring Minimum Length Clutch Release Method		3.0 mm (0.12 in) × 8 2.8 mm (0.11 in) 2.0 mm (0.079 in) × 7 0.05 mm (0.0020 in) 51.6 mm (2.031 in) × 6 50.0 mm (1.969 in) Outer Pull
Transmission: Main Axle Deflection Limit Drive Axle Deflection Limit		0.08 mm (0.0031 in) 0.08 mm (0.0031 in)
Shifter: Shifter Type		Guide bar
Carburetor: Type/Manufacturer/Quantity I.D. Mark Main Jet (M.J.) Main Air Jet (M.A.J.) Jet Needle-clip Position (J.N.) Throttle Valve (Th.V.) Pilot Jet (P.J.) Pilot Outlet Size (P.O.) Pilot Air Jet (P.A.J.) Pilot Screw (P.S.) Valve Seat Size (V.S.) Starter Jet (G.S.) Bypath Size (B.P.) Fuel Level (F.L.)	HSC33/HITACHI/4 1FG-00 (XJ700S) 1JJ-00 (XJ700SC) # 107 # 70 Y-20 12.5° # 36.5 φ0.9 # 210 Preset φ2.0 # 36 φ0.9 1.0 ± 1.0 mm (0.039 ± 0.039 in) below from the carburetor mixing chamber body edge.	



Item	Model
	XJ700S/SC
Engine Idling Speed	1.050 ± 50 r/min
Vacuum Pressure at Idling Speed	24.7 ± 1.3 kPa (180 ± 5 mmHg, 7.09 ± 0.2 inHg)
Vacuum Synchronous Difference	Below 10 kPa (5 mmHg, 0.2 inHg)
Lubrication System:	
Oil Filter Type	Paper
Oil Pump Type	Trochoid pump
Tip Clearance	$0.03 \sim 0.09$ mm ($0.0012 \sim 0.0035$ in)
Side Clearance	$0.03 \sim 0.08$ mm ($0.0012 \sim 0.0031$ in)
Bypass Valve Setting Pressure	98.0 ± 20 kPa (1.0 ± 0.2 kg/cm 2 , 14.2 ± 2.8 psi)
Relief Valve Operating Pressure	490 ± 49 kPa (5.0 ± 0.5 kg/cm 2 , 71 ± 7.1 psi)
Lubrication Chart	<p>→ SCAVENGE → FEED</p>
Middle Gear Backlash:	$0.1 \sim 0.2$ mm ($0.004 \sim 0.008$ in)
Final Gear Backlash:	$0.1 \sim 0.2$ mm ($0.004 \sim 0.008$ in)
Crankcase Tightening Sequence:	
Upper case	
Lower case	

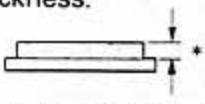


Tightening torque

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m-kg	ft-lb	
Cylinder head	Nut	M10 P1.25	12	35	3.5	25	
	Nut	M8 P1.25	2	20	2.0	14	
	Nut	M6 P1.0	4	10	1.0	7.2	
Cylinder head cover	Bolt	M6 P1.0	12	10	1.0	7.2	
Spark plug	—	M14 P1.25	4	20	2.0	14	
Cylinder	Nut	M8 P1.25	1	10	1.0	7.2	Cam chain case Front & Rear
Y.I.C.S. Plug	Plug	M12 P1.25	2	22	2.2	16	
Cam shaft cap	Bolt	M6 P1.0	24	10	1.0	7.2	Tighten in 3-stages.
Cam sprocket	Bolt	M7 P1.0	4	20	2.0	14	
Cam chain tensioner body	Bolt	M6 P1.0	2	12	1.2	8.7	
Cam chain tensioner end plug	Bolt	M8 P1.25	1	9	0.9	6.5	
Cam chain guide stopper	Bolt	M8 P1.25	1	3	0.3	2.2	
	Nut	M10 P1.25	1	15	1.5	11	
Connecting rod	Nut	M7 P0.75	8	25	2.5	18	
Drain plug	Bolt	M14 P1.5	1	43	4.3	31	
		M8 P1.25	1	16	1.6	17	Middle gear case drain
Oil filter	Bolt	M20 P1.5	1	15	1.5	11	
Oil pump	Bolt	M6 P1.0	3	12	1.2	8.7	
Pump cover	Screw	M6 P1.0	4	7	0.7	5.1	
Oil pan	Bolt	M6 P1.0	13	12	1.2	8.7	
Crankcase	Flange bolt	M8 P1.25	19	24	2.4	17	
		M6 P1.0	20	12	1.2	8.7	
Main gallery plug	Plug	M20 P1.5	2	12	1.2	8.7	
Clutch cable holder	Bolt	M6 P1.0	2	12	1.2	8.7	
Clutch cover	Bolt	M6 P1.0	10	12	1.2	8.7	
Clutch boss	Nut	M20 P1.0	1	70	7.0	50	
Clutch spring screw	Bolt	M6 P1.0	5	8	0.8	5.8	
Shift pedal	Bolt	M6 P1.0	1	8	0.8	5.8	
Stopper plate	Bolt	M6 P1.0	2	8	0.8	5.8	Shift cam, Starter idle gear
Neutral switch	—	M10 P1.25	1	20	2.0	14	
Exhaust pipe	Nut	M6 P1.0	8	10	1.0	7.2	
Generator cover	Bolt	M6 P1.0	3	12	1.2	8.7	
Generator (rotor)	Bolt	M10 P1.25	1	55	5.5	40	
Generator bearing housing	Screw	M6 P1.0	3	10	1.0	7.2	
Pickup base	Screw	M6 P1.0	2	8	0.8	5.8	
Timing plate	Bolt	M8 P1.25	1	24	2.4	17	
Starter motor	Bolt	M6 P1.0	2	7	0.7	5.1	Apply liquid gasket
Middle gear:							
Drive shaft bearing	Nut	M36.P1.5	1	110	11	80	Stake
Driven shaft bearing	Nut	M65 P1.5	1	110	11	80	
Drive shaft bearing retainer	TORX screw	M8 P1.25	4	25	2.5	18	Stake
Flange	UBS nut	M14 P1.5	1	90	9.0	65	Stake
Driven-gear housing	Bolt	M8 P1.25	4	25	2.5	18	



CHASSIS

Item	Model	XJ700S/SC
Steering System: Steering Bearing Type		Taper Roller Bearing
Front Suspension: Front Fork Travel Fork Spring Free Length Spring Rate/Stroke		150 mm (5.9 in) 521 mm (20.51 in) $K_1 = 3.7 \text{ N/mm}$ (0.38 kg/mm, 21.3 lb/in) 0 ~ 100 mm (0 ~ 3.94 in) $K_2 = 5.4 \text{ N/mm}$ (0.55 kg/mm, 30.8 lb/in) 100 ~ 150 mm (3.94 ~ 5.90 in)
Optional Spring Oil Capacity Oil Grade		No 383 cm ³ (13.51 Imp oz, 12.95 US oz) YAMAHA Fork & Shock Oil 10wt or equivalent fork oil
Rear Suspension: Shock Absorber Travel Spring Free Length Spring Fitting Length Spring Rate/Stroke		70 mm (2.76 in) 243.5 mm (9.59 in) 220 mm (8.66 in) $K_1 = 21.6 \text{ N/mm}$ (2.2 kg/mm, 123.2 lb/in) 0 ~ 46.5 mm (0 ~ 1.83 in) $K_2 = 28.4 \text{ N/mm}$ (2.9 kg/mm, 162.3 lb/in) 46.5 ~ 70 mm (1.83 ~ 2.76 in)
Rear Arm: Swingarm Free Play Limit:	End Side	1.0 mm (0.04 in) 1.0 mm (0.04 in)
Wheel: Front Wheel Type Rear Wheel Type Front Rim Size/Material Rear Rim Size/Material Rim Runout Limit:	Vertical Lateral	Cast Wheel Cast Wheel MT2.15 × 19/Aluminum MT3.00 × 16/Aluminum 2.0 mm (0.08 in) 2.0 mm (0.08 in)
Disc Brake: Type Outside Dia. × Thickness Pad Thickness: 	Front Inner <Limit> Outer <Limit>	Dual disc 267 × 5 mm (10.5 × 0.2 in) 5.5 mm (0.22 in) 0.5 mm (0.02 in) 5.5 mm (0.22 in) 0.5 mm (0.02 in)
Master Cylinder Inside Dia. Caliper Cylinder Inside Dia. Brake Fluid Type		15.87 mm (0.62 in) 38.18 mm (1.50 in) DOT # 3
Drum Brake: Type Drum Inside Dia.	Rear <Limit>	Leading trailing 200 mm (7.87 in) 201 mm (7.91 in)
Lining Thickness	<Limit>	4 mm (0.16 in) 2 mm (0.08 in)
Shoe Spring Free Length		68 mm (2.7 in)



Item	Model
Brake Lever & Brake Pedal:	XJ700S/SC
Brake Lever Free Play	2 ~ 5 mm (0.08 ~ 0.20 in)/at lever end
Brake Pedal Position	10 mm (0.4 in) below the top of the footrest
Brake Pedal Free Play	20 ~ 30 mm (0.8 ~ 1.2 in)
Clutch Lever Free Play:	2 ~ 3 mm (0.08 ~ 0.12 in)/at lever pivot

Tightening torque

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m-kg	ft-lb	
Engine mounting bolt: Front, upper	Nut	M10 P1.25	1	42	4.2	30	
Front, lower	Nut	M10 P1.25	2	42	4.2	30	
Rear	Nut	M12 P1.25	2	90	9.0	65	
Engine mounting stay	Nut	M8 P1.25	4	33	3.3	24	
Downtube	Bolt	M8 P1.25	4	33	3.3	24	
Downtube & Cross pipe	Nut	M8 P1.25	2	33	3.3	24	
Handle crown & Steering shaft	Nut	M20 P1.0	1	110	11	80	
Ring nut (Lower)	Nut	M22 P1.0	1	6	0.6	4.3	
Handle crown & Inner tube	Nut	M8 P1.25	2	20	2.0	14	
Handle crown & Handle holder	Bolt	M8 P1.25	4	20	2.0	14	
Front fork:							
Under bracket & Inner tube	Bolt	M8 P1.25	4	23	2.3	17	
Front wheel axle	Nut castle	M14 P1.5	1	105	10.5	75	
Front wheel axle pinch bolt	Nut self locking	M8 P1.25	1	20	2.0	14	
Pivot shaft (Right)	Bolt	M22 P1.5	1	5.5	0.55	4.0	Taper roller bearing
Pivot shaft (Left and Right)	Bolt	M22 P1.5	1	100	10.0	72	
Rear wheel axle	Nut castle	M14 P1.5	1	105	10.5	75	
Rear wheel axle pinch bolt	Bolt	M8 P1.25	1	20	2.0	14	
Rear shock absorber (Upper)	Nut cap	M8 P1.25	2	20	2.0	14	
Rear shock absorber (Lower)	L Nut cap R Bolt	M10 P1.25	2	30	3.0	22	
Footrest	Bolt	M8 P1.25	4	29	2.9	21	
Tension bar & Brake plate	Bolt	M8 P1.25	1	20	2.0	14	
Tension bar & Rear arm	Bolt	M8 P1.25	1	20	2.0	14	
Camshaft lever & Camshaft	Bolt	M6 P1.0	1	9	0.9	6.5	
Disc brake section:							
Brake disc & Hub (Front)	Bolt	M8 P1.25	12	20	2.0	14	
Master cylinder & Brake hose (Front)	Bolt union	M10 P1.25	1	26	2.6	19	
Brake hose & Joint	Bolt union	M10 P1.25	1	26	2.6	19	
Caliper & Brake hose	Bolt union	M10 P1.25	2	26	2.6	19	
Caliper & Front fork (Front)	Bolt	M10 P1.25	4	35	3.5	25	
Caliper bleed screw (Front)		M8 P1.25	2	6	0.6	4.3	
Front fender	Bolt	M6 P1.0	4	9	0.9	6.5	



Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m-kg	ft-lb	
Final gear & Rear arm	Nut	M10 P1.25	4	42	4.2	30	
Final gear:							
Drive shaft	Nut	M14 P1.5	1	110	11	80	-
Bearing housing	Flange bolt	M8 P1.25	4	25	25	18	
Bearing housing	Nut	M8 P1.25	6	23	2.3	17	
Oil filler cap	Plug	M14 P1.5	1	23	2.3	17	
Oil drain screw	Plug	M14 P1.5	1	23	2.3	17	
Bearing retainer	—	M65 P1.5	1	110	11	80	Left-hand screw
Cross joint	Hexagon bolt with washer	M8 P1.25	4	44	4.4	32	
Muffler bracket & Frame	Bolt	M8 P1.25	4	23	2.3	17	
Rear fender	Bolt	M10 P1.25	2	32	3.2	23	
Muffler bracket & Muffler	Bolt	M10 P1.25	2	25	2.5	18	



ELECTRICAL

Item	Model	XJ700S/SC														
Voltage:	12V															
Ignition System:																
Ignition Timing (B.T.D.C.)	7° at 1,050 r/min															
Advanced Timing (B.T.D.C.)	37.5° at 6,000 r/min															
Advancer Type	Electrical															
	<table border="1"> <caption>Data points estimated from Ignition Timing graph</caption> <thead> <tr> <th>Engine Speed (x 10³ r/min)</th> <th>Ignition Timing (B.T.D.C.)</th> </tr> </thead> <tbody> <tr><td>1,050</td><td>7</td></tr> <tr><td>2,000</td><td>18</td></tr> <tr><td>3,000</td><td>27</td></tr> <tr><td>4,000</td><td>32</td></tr> <tr><td>5,000</td><td>37</td></tr> <tr><td>6,000</td><td>38</td></tr> </tbody> </table>		Engine Speed (x 10 ³ r/min)	Ignition Timing (B.T.D.C.)	1,050	7	2,000	18	3,000	27	4,000	32	5,000	37	6,000	38
Engine Speed (x 10 ³ r/min)	Ignition Timing (B.T.D.C.)															
1,050	7															
2,000	18															
3,000	27															
4,000	32															
5,000	37															
6,000	38															
T.C.I.:																
Pickup Coil Resistance (Color)	120Ω ± 10% at 20°C (68°F) (Black — Gray) (Black — Orange)															
T.C.I. Unit — Manufacturer	TID14-44/HITACHI															
Ignition Coil:																
Model/Manufacturer	CM12-26/HITACHI															
Minimum Spark Gap	6 mm (0.24 in) or more at 500 r/min															
Primary Winding Resistance	2.7Ω ± 10% at 20°C (68°F)															
Secondary Winding Resistance	12 kΩ ± 20% at 20°C (68°F)															
Charging System:																
Type	A.C. Generator															
A.C. Generator:																
Model/Manufacturer	LD119-08/HITACHI															
Nominal Output	14V, 19A at 5,000 r/min															
	<table border="1"> <caption>Data points estimated from Output Current graph</caption> <thead> <tr> <th>Engine Speed (x 10³ r/min)</th> <th>Output Current (A)</th> </tr> </thead> <tbody> <tr><td>1,050</td><td>0</td></tr> <tr><td>2,000</td><td>15</td></tr> <tr><td>3,000</td><td>20</td></tr> <tr><td>4,000</td><td>22</td></tr> <tr><td>5,000</td><td>24</td></tr> <tr><td>6,000</td><td>25</td></tr> </tbody> </table>		Engine Speed (x 10 ³ r/min)	Output Current (A)	1,050	0	2,000	15	3,000	20	4,000	22	5,000	24	6,000	25
Engine Speed (x 10 ³ r/min)	Output Current (A)															
1,050	0															
2,000	15															
3,000	20															
4,000	22															
5,000	24															
6,000	25															
Field Coil Resistance	4.0Ω ± 10% at 20°C (68°F)															
Armature Coil Resistance	0.46Ω ± 10% at 20°C (68°F) (White — White)															
Brush Overall Length	17 mm (0.67 in)															
<Limit>	10 mm (0.39 in)															
Brush Spring Pressure	190 ~ 360 g (6.7 ~ 12.7 oz)															

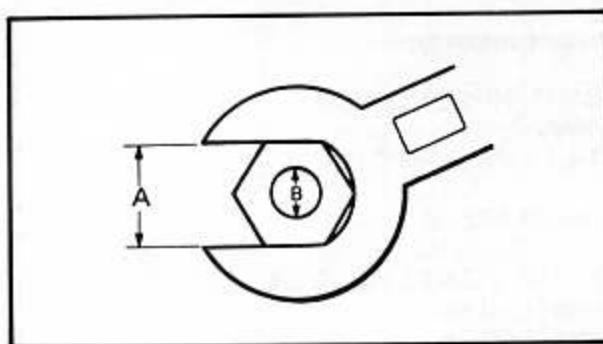


Item	Model XJ700S/SC
Voltage Regulator: Type Model/Manufacturer No Load Regulated Voltage	Semi conductor, Field control SH233-12/SHINDENGEN $14.5 \pm 0.3V$
Rectifier: Model/Manufacturer Capacity	SH233-12/SHINDENGEN 35A
Battery: Capacity Specific Gravity	12V 14 AH 1.280
Electric Starter System: Type Starter Motor: Model/Manufacturer Output Armature Coil Resistance Brush: Overall Length <Limit> Spring Pressure Commutator Dia. Wear Limit Mic Undercut Starter Switch: Amperage Rating	Constant-mesh type ADB4D2/NIPPONDENSO 0.6 kW $0.014\Omega \pm 6\%$ at $20^\circ C$ ($68^\circ F$) 12 mm (0.472 in) 8.5 mm (0.335 in) 800 ± 150 g (28.22 ± 5.29 oz) 28 mm (1.10 in) 27 mm (1.06 in) 0.6 ± 0.2 mm (0.024 ± 0.008 in) 150A
Horn: Type/Quantity Model/Manufacturer Maximum Amperage	Plane type × 2 CFL/NIKKO 2.5A
Relay Assembly: Model/Manufacturer Flasher Relay Type Self Cancelling Device Flasher Frequency Wattage Starting-Circuit Cut-off Relay Color Code	FX257NZ/NIPPONDENSO Semi transistor Yes 85 ± 10 cycle/min $27W \times 2$ pcs + 3.4W No.
Sidestand Relay Model/Manufacturer Coil Winding Resistance Color Code	G2MW-D-3636/TATEISHI $100\Omega \pm 10\%$ at $20^\circ C$ ($68^\circ F$) Blue
Oil Level Switch: Model/Manufacturer	10L/NIPPONDENSO
Circuit Breaker: Type Amperage for Individual Circuit/Quantity: MAIN HEADLIGHT SIGNAL IGNITION	Fuse 30A × 1 15A × 1 15A × 1 10A × 1

**GENERAL TORQUE SPECIFICATIONS**

This chart specifies torque for standard fasteners with standard I.S.O. pitch threads. Torque specifications for special components or assemblies are included in the applicable sections of this book. To avoid warpage, tighten multi-fastener assemblies in a criss-cross fashion, in progressive stages, until full torque is reached. Unless otherwise specified, torque specifications call for clean, dry threads. Components should be at room temperature.

A (Nut)	B (Bolt)	General torque specifications		
		Nm	m·kg	ft·lb
10 mm	6 mm	6	0.6	4.3
12 mm	8 mm	15	1.5	11
14 mm	10 mm	30	3.0	22
17 mm	12 mm	55	5.5	40
19 mm	14 mm	85	8.5	51
22 mm	16 mm	130	13.0	94





DEFINITION OF UNITS

Unit	Read	Definition	Measure
mm	millimeter	10^{-3} meter	Length
cm	centimeter	10^{-2} meter	Length
kg	kilogram	10^3 gram	Weight
N	Newton	$1 \text{ kg} \times \text{m/sec}^2$	Force
Nm m·kg	Newton meter Meter kilogram	$\text{N} \times \text{m}$ $\text{m} \times \text{kg}$	Torque Torque
Pa N/mm	Pascal Newton per millimeter	N/m^2 N/mm	Pressure Spring rate
L cm ³	Liter Cubic centimeter		Volume or Capacity
r/min	Rotation per minute		Engine Speed

CONVERSION TABLES

Metric to inch system		
Known	Multiplier	Result
m·kg	7.233	ft·lb
m·kg	86.80	in·lb
cm·kg	0.0723	ft·lb
cm·kg	0.8680	in·lb
kg	2.205	lb
g	0.03527	oz
km/lit	2.352	mpg
km/hr	0.6214	mph
km	0.6214	mi
m	3.281	ft
m	1.094	yd
cm	0.3937	in
mm	0.03937	in
cc (cm ³)	0.03382	oz (US liq)
cc (cm ³)	0.06102	cu in
lit (liter)	2.1134	pt (US liq)
lit (liter)	1.057	qt (US liq)
lit (liter)	0.2642	gal (US liq)
kg/mm	56.007	lb/in
kg/cm	14.2234	psi (lb/in)
centigrade (°C)	9/5 (°C) + 32	Fahrenheit (°F)

Inch to metric system		
Known	Multiplier	Result
ft·lb	0.13826	m·kg
in·lb	0.01152	m·kg
ft·lb	13.831	cm·kg
in·lb	1.1521	cm·kg
lb	0.4535	kg
oz	28.352	g
mpg	0.4252	km/lit
mph	1.609	km/hr
mi	1.609	km
ft	0.3048	m
yd	0.9141	m
in	2.54	cm
in	25.4	mm
oz (US liq)	29.57	cc (cm ³)
cu in	16.387	cc (cm ³)
pt (US liq)	0.4732	lit (liter)
qt (US liq)	0.9461	lit (liter)
gal (US liq)	3.785	lit (liter)
lb/in	0.017855	kg/mm
psi (lb/in)	0.07031	kg/cm
Fahrenheit (°F)	5/9 (° - 32)	Centigrade (°F)



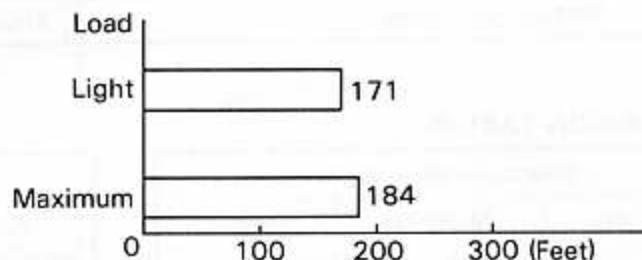
CONSUMER INFORMATION

STOPPING DISTANCE

These figures indicate braking performance that can be met or exceeded by the vehicles to which they apply, without locking the wheels, under different conditions of loading and with partial failures of the braking system. The information presented represents results obtainable by skilled drivers under controlled road and vehicle conditions and the information may not be correct under other conditions.

Description of vehicles to which this table applies: Yamaha motorcycle XJ700S/SC

A. Fully Operational Service Brake



NOTE:

The statement above is required by U.S. Federal law. "Partial failures" of the braking system do not apply to this chart.

Stopping distance in feet from 60 mi/h