

YAMAHA

XTZ660(L)'96(H)

3YF-AE2

**SUPPLYMENTALY
SERVICE MANUAL**

This Supplementary Service
the XTZ660(L)'96(H). For
this Supplementary Service N

XTZ660(L)

2

HOW TO USE THIS MANUAL

CONSTRUCTION OF THIS MANUAL

This manual consists of chapters for the main categories of subjects. (See "Illustrated symbols") 1st title (1): This is a chapter with its symbol on the upper right of each page.

2nd title (2): This title appears on the upper of each page on the left of the chapter symbol (for the chapter "Periodic inspection and adjustment" the 3rd title appears.)

3rd title (3): This is a final title

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 inspections.

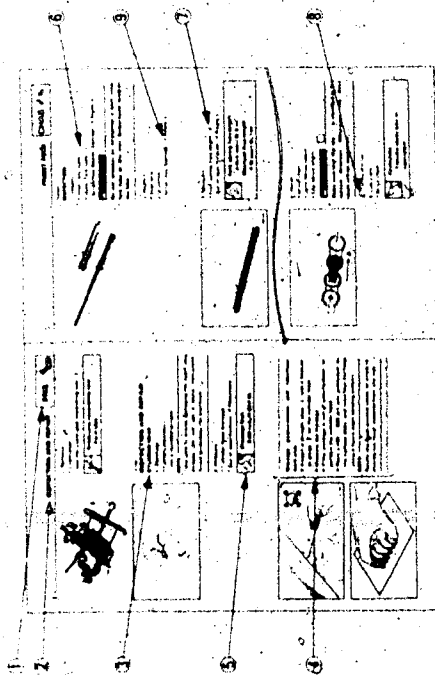
A set of particularly important procedure (4) is placed between a line of asterisks (*); with each procedure preceded by (e).

IMPORTANT FEATURES

- Data and a special tool are framed in a box preceded by a relevant symbol (5).
- An encircled numeral (6) indicates a part name, and an encircled alphabetical letter, data or an alignment mark (7), the others being indicated by an alphabetical letter in a box (8).
- A condition of a faulty component will precede an arrow symbol and course of action required the symbol (9).

EXPLODED DIAGRAM

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



ILLUSTRATED SYMBOLS

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) Engines
- (5) Cooling system
- (6) Carburetion
- (7) Chassis
- (8) Electrical
- (9) Troubleshooting

Illustrated symbols (10) to (28) are used to identify the specifications appearing in the text.

- (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 (28) in the exploded diagrams indicate the types of lubricants and lubrication points.

- (17) Apply engine oil
- (18) Apply gear oil
- (19) Apply molybdenum disulfide oil
- (20) Apply wheel bearing grease
- (21) Apply lightweight lithium-sap base grease
- (22) Apply molybdenum disulfide grease

Illustrated symbols (23) to (28) in the exploded diagrams indicate the where to apply locking agent (23) and when to install new parts (24).

- (23) Apply locking agent (LOCTITE®)
- (24) Use new one

(1) GEN INFO	(2) SPEC
(3) INSP ADJ	(4) ENG
(5) COOL	(6) CARB
(7) CHAS	(8) ELEC
(9) TRBL SHTG	(10) Filling fluid
(11) Lubricant	(12) Special tool
(13) Tightening	(14) Wear limit, clearance
(15) Engine speed	(16) Ω, V, A
(17) Apply engine oil	(18) Apply gear oil
(19) Apply molybdenum disulfide oil	(20) Apply wheel bearing grease
(21) Apply lightweight lithium-sap base grease	(22) Apply molybdenum disulfide grease
(23) Apply locking agent (LOCTITE®)	(24) Use new one

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XTZ660(L) '96 (H) WIRING DIAGRAM

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E-5

GEN INFO

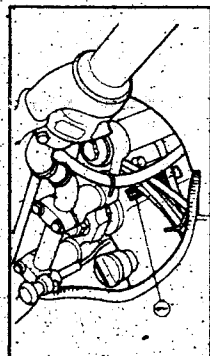
MOTORCYCLE IDENTIFICATION

GENERAL INFORMATION MOTORCYCLE IDENTIFICATION VEHICLE IDENTIFICATION NUMBER

(For E and OCE)
The vehicle identification number ① is stamped into the right side of the steering head pipe.

Starting serial number:
JVA3VF80*TA110101 (E)
JYA4UXT0*TA009101 (OCE)

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.



FRAME SERIAL NUMBER
(Except for E and OCE)
The frame serial number ① is stamped into the right side of the steering head.

Starting serial number:
XTZ660...3VF-106101 (B) (D) (DK)
(F) (GB) (I)
(N) (NL) (P)
(S) (SF)
XTZ660L...4BW-009101 (A) (CH)

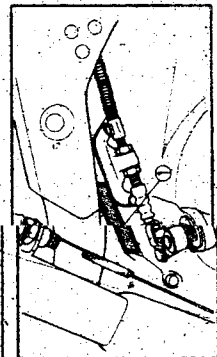
NOTE:
The first three digits of these numbers are for model identification; the remaining digits are the unit production number.

GEN INFO

MOTORCYCLE IDENTIFICATION

ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the crankcase.

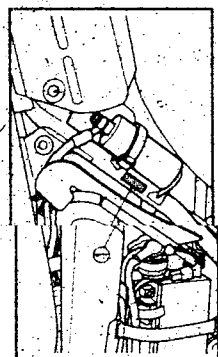


Starting serial number:
XTZ660...3VF-106101 (B) (D) (DK)
(F) (GB) (I)
(N) (NL) (P)
(S) (SF)
XTZ660L...4BW-009101 (A) (CH)
XTZ660H...4UX-000101 (OCE)

NOTE:
Designs and specifications are subject to change without notice.

MODEL LABEL

The model label ① is affixed under the seat. This information will be needed to order spare parts.



GENERAL SPEC

Model code	N
Vehicle identification	
Frame starting numb	
Engine starting numt	
Dimensions:	
Overall length	
Overall width	
Overall height	
Seat height	
Wheelbase	
Minimum ground ck	
Basic weight:	
With oil and full fuel	

06101	(S) (D) (DK) (N) (GB) (I) (N) (NL) (P) (S) (SF)
110101 (E) 009101 (A) (CH) 000101 (OCE)	

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GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Model code	Model	XTZ660(L)
XTZ660: 4MY3 (BXD)(DK)(F)(GB)(N)(NL) (P)(S)(SF) 4MY4 (E) XTZ660L: 4NV2 (A)(CH) XTZ660H: 4UX1 (OCE)		
Vehicle identification number	XTZ660: JYA3YFS0*TA110101(E) XTZ660H: JYA4UXT0*TA000101(OCE)	
Frame starting number:	XTZ660: 3YF-106101(B)(D)(DK)(F)(GB)(N)(NL) (P)(S)(SF) XTZ660L: 4BW-009101(A)(CH)	
Engine starting number:	XTZ660: 3YF-106101(B)(D)(DK)(F)(GB)(N)(NL) (P)(S)(SF) 3YF-110101(E) XTZ660L: 4BW-009101(A)(CH) XTZ660H: 4UX-000101(OCE)	
Dimensions:		
Overall length	2,265 mm (D)(F)(GB)(E)(A)(P)(OCE)(NL) 2,355 mm (D)(DK)(S)(SF)(N)(CH)	
Overall width	845 mm	
Overall height	1,385 mm	
Seat height	865 mm	
Wheelbase	1,495 mm	
Minimum ground clearance	245 mm	
Basic weight:		197 kg
With oil and full fuel tank		

MAINTENANCE SPECIFICATIONS

Model	XTZ660(L)
Transmission:	
Primary reduction system	Spur gear
Primary reduction ratio	71/34 (2.088)
Secondary reduction system	Chain drive
Secondary reduction ratio	46/15 (3.067), 45/15 (3.000) (CH)(A)
Transmission type	Constant mesh 5-speed
Operation	Left foot operation
Gear ratio: 1st	31/12 (2.583)
2nd	28/16 (1.750), 27/17 (1.588) (CH)(A)
3rd	24/20 (1.200)
4th	21/22 (0.955)
5th	19/24 (0.792)
Headlight type:	
	Quartz bulb (Halogen) (B)(F)(GB)(P) (D)(S)(E)(CH)(OCE) Bulb (DK)(N)(N)(NL)(SF)(A)
Bulb wattage x quantity:	
Headlight	12V 55 W x 55 W x 1 (D)(F)(B)(S)(E)(CH)(OCE) 12V 45 W x 2 / 40 W x 1 (DK)(SF)(N)(A) 12V 35 W / 35 W x 2 (N)(GB) 12V 4 W x 1 12V 3 W x 2 (I) 12V 3.4 W x 2 (GB) 12V 3.4 W x 3 12V 5 W/21 W x 1 12V 21 W x 4
Marker light	
Meter light	
Tail/brake light	
Flasher light	
Indicator light:	
Wattage x quantity:	"NEUTRAL" 12V 3.4 W x 1 "HIGH BEAM" 12V 3.4 W x 1 "TURN" 12V 3.4 W x 2

2660(L)	
5 (3,000) (CH)(A)	speed
7 (1,585) (CH)(A)	
en) (B)(F)(GB)(P)	(D)(S)(H)(CH)(OCE)
1	(OCE)
V x 1 (D)(S)(H)(N)(A)	(NGB)

MAINTENANCE SPECIFICATIONS

ENGINE

Model	XTZ660(L)
Carburetor: I.D. mark	4BW-02 (A)(CH), 3YF-02 (OCE), 4MY-00
Main jet	(M.J.) #122 #130(CH)(A)(OCE) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Main air jet	(M.A.J.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Jet needle	(J.N.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Needle jet	(N.J.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Pilot jet	(P.J.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Pilot air jet	(P.A.J.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Bypass	(B.P.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Valve seat	(V.S.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Starter jet	(S.J.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Pilot outlet	(P.O.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Fuel level	(F.L.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Float height	(F.H.) #1.0 5D96-3/5 5D97-3/5(CH)(A)(OCE) 2.595 2.60 (CH)(A)(OCE) #48 #0.6 #1.0 2-1/2 turns out #2.5 #76 #0.8
Engine idling speed	1,200-1,400 rpm 1,250-1,350 rpm (CH)(A)(OCE) 26.7-34.7 kPa (200-280 mmHg)
Vacuum pressure at idling speed	

MAINTENANCE SPECIFICATIONS

CHASSIS

Tightening torques

Part to be tightened	Thread size	Tightening torque Nm	Tightening torque m·kg	Remarks
Front fork/handlebar:				
Handle crown and inner tube	M 8 x 1.25	23	2.3	
Handle crown and steering shaft	M14 x 1.25	110	11.0	
Handlebar holder (under) and handlebar holder (upper)	M 8 x 1.25	23	2.3	
Steering shaft and ring nut	M25 x 1.0	7	0.7	See "NOTE"
Front brake hose and clamp	M 6 x 1.0	7	0.7	
Front master cylinder and handlebar	M 6 x 1.0	7	0.7	
Cowling stay and cowling	M 6 x 1.0	7	0.7	
Horn and frame	M 6 x 1.0	7	0.7	
Main switch and handle crown	M 6 x 1.0	7	0.7	
Handlebar holder (under) and nut	M10 x 1.25	30	3.0	
Headlight and cowling stay	M 8 x 1.0	7	0.7	
Rectifier/regulator and cowling stay	M 6 x 1.0	7	0.7	
Under bracket and inner tube	M 8 x 1.25	23	2.3	
Handlebar and grip end	M 6 x 1.0	7	0.7	
Cowling stay and frame	M 8 x 1.25	15	1.5	
Cowling and fuel tank	M 6 x 1.0	7	0.7	
Engine mount:				
Front engine stay and frame	M10 x 1.25	65	6.5	
Top engine stay and frame	M10 x 1.25	85	8.5	
Engine (rear under) and frame	M10 x 1.25	85	8.5	
Engine protector and frame	M 6 x 1.0	9	0.9	
Swingarm/rear shock absorber:				
Pivot shaft and frame	M14 x 1.5	105	10.5	
Swingarm and relay arm	M12 x 1.25	74	7.4	
Relay arm and connecting rod	M10 x 1.25	52	5.2	
Connecting rod and frame	M10 x 1.25	39	3.9	
Rear shock absorber and frame	M12 x 1.25	59	5.9	
Chain tensioner securing bolt	M 8 x 1.25	23	2.3	
Guard seal and swing arm	M 6 x 1.0	7	0.7	
Chain support and swing arm	M 6 x 1.0	7	0.7	
Fuel tank/Seat/Rear fender/Side cover:				
License bracket and number plate stay	M 6 x 1.0	7	0.7	
Fuel tank and fuel cock	M 6 x 1.0	7	0.7	
Helmet holder and carrier	M 6 x 1.0	7	0.7	
Fuel tank back stay and frame	M 6 x 1.0	7	0.7	
Clutch cable and engine	M 8 x 1.0	9	0.9	
License bracket and taillight	M 6 x 1.0	7	0.7	
Regulator and frame	M 6 x 1.0	7	0.7	
Fuel tank bracket end frame (upper)	M 8 x 1.25	15	1.5	
Fuel tank bracket end frame (lower)	M 8 x 1.25	15	1.5	
Carrier and frame (front and rear)	M 8 x 1.25	15	1.5	
Fuel tank bracket and frame	M 6 x 1.0	7	0.7	
Tool box and frame	M 8 x 1.0	7	0.7	

Torque in ft.- lb.	Remarks
2.3	
0.7	
0.7	
0.7	
0.7	
0.7	
0.7	
0.7	
0.7	
3.6	
0.7	
0.7	
0.7	
2.3	
0.7	
1.5	
0.7	
.85	
.85	
.85	
0.9	
0.5	
7.4	
5.2	
3.9	
5.5	
3.3	
0.7	
0.7	
0.7	
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5.5	
5.5	
7.7	
7.7	

MAINTENANCE SPECIFICATIONS

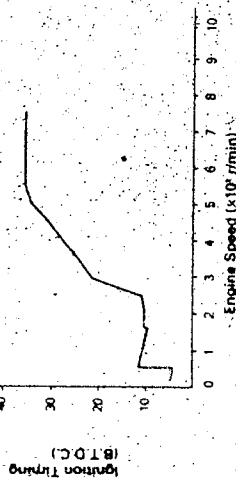
Part to be tightened	Thread size	Tightening torque		Remarks
		Nm	m·kg	
License bracket and frame	M 6 x 1.0	7	0.7	
Bracket 1 and frame	M 8 x 1.25	23	2.3	
Front wheel/Rear wheel:				
Front wheel and brake disc	M 8 x 1.25	20	2.0	
Front wheel axle and front fork	M14 x 1.5	58	5.8	
Rear wheel axle and nut	M16 x 1.5	105	10.5	
Front axle holder	M 6 x 1.0	9	0.9	
Front brake caliper and front fork	M10 x 1.25	40	4.0	
Union bolt	M10 x 1.25	28	2.8	
Front brake caliper and bleed screw	M 8 x 1.25	6	0.6	
Rear brake caliper and bleed screw	M 7 x 1.0	6	0.6	
Rear wheel and sprocket	M10 x 1.25	60	6.0	
Rear wheel and brake disc	M 6 x 1.0	10	1.0	
Footrest/Pedal:				
Sidestand securing bolt and nut	M12 x 1.25	45	4.5	
Sidestand securing bolt and frame	M12 x 1.25	45	4.5	
Footrest and frame	M10 x 1.25	50	5.0	
Rear footrest and frame	M 8 x 1.25	23	2.3	
Rear master cylinder and frame	M 8 x 1.25	23	2.3	
Rear brake pedal shaft and frame	M10 x 1.25	35	3.5	

NOTE:

1. First, tighten the ring nut (lower) approximately 43 Nm (4.3 m.tg) by using the torque wrench. Then the handlebar to the left and right making sure there is no binding and then fully loosen the ring nut.
2. Retighten the ring nut (lower) to specification.

... ELECTRICAL

Model		XTZ660(L)																						
T.C.I. Pickup Coil Resistance T.C.I. Unit Model/Manufacturer	230 TNDF34 / NIPPONDENSO TNDF19 / NIPPONDENSO (CHIKAI/OCE)																							
Horn: Type/quantity Model/manufacturer Maximum amperage	Plane type / 1 pc. YF-12/NIKKO GF-12/NIKKO (D) 3A 1.5A (D)																							
Voltage: Ignition system: Ignition timing (B.T.D.C.) Advanced timing (B.T.D.C.) Advancer type	12 V 12° at 1,200 r/min 36° at 6,500 r/min Electrical type																							
Ignition Timing (B.T.D.C.)		<table><caption>Ignition Timing Data (Estimated from Graph)</caption><thead><tr><th>Engine Speed (x10³ r/min)</th><th>Ignition Timing (B.T.D.C.)</th></tr></thead><tbody><tr><td>0.5</td><td>10</td></tr><tr><td>1.5</td><td>15</td></tr><tr><td>2.5</td><td>18</td></tr><tr><td>3.5</td><td>20</td></tr><tr><td>4.5</td><td>22</td></tr><tr><td>5.5</td><td>25</td></tr><tr><td>6.5</td><td>30</td></tr><tr><td>7.5</td><td>30</td></tr><tr><td>8.5</td><td>30</td></tr><tr><td>9.5</td><td>30</td></tr></tbody></table>	Engine Speed (x10 ³ r/min)	Ignition Timing (B.T.D.C.)	0.5	10	1.5	15	2.5	18	3.5	20	4.5	22	5.5	25	6.5	30	7.5	30	8.5	30	9.5	30
Engine Speed (x10 ³ r/min)	Ignition Timing (B.T.D.C.)																							
0.5	10																							
1.5	15																							
2.5	18																							
3.5	20																							
4.5	22																							
5.5	25																							
6.5	30																							
7.5	30																							
8.5	30																							
9.5	30																							
Ignitor:	T.C.I.																							
Type pickup coil resistance/color (color)	184-278 Ω at 20°C (Blue/Yellow—Green/White)																							
Ignitor unit model/manufacturer	TNDF19/NIPPONDENSO																							
Horn: Type/quantity Model/manufacturer Maximum amperage	Plane type/1 pc. YF-12/NIKKO 2.5 A																							



LUBRICATION POINT AND GRADE OF LUBRICANT

LUBRICATION POINT AND GRADE OF LUBRICANT

Lubrication Point	Symbol
Gear unit (speedometer)	—S—A
Oil seal lips	—S—A
Wheel axle (front wheel and rear wheel)	—S—A
Rear wheel hub and clutch hub	—S—A
Bush (swingarm) and thrust cover	—S—A
Pivot shaft (swingarm)	—S—A
Bushes (rear shock absorber)	—S—A
Bushes (relay arm and connecting rod)	—S—A
Bearings (relay arm and connecting rod)	—S—A
Pivoting points (brake pedal and change pedal)	—S—A
Bearings (steering head)	—S—A
Right handlebar end	—S—A
Pivoting points (brake lever and clutch lever)	—S—A
Clutch cable end	—S—A
Pivoting point (side stand)	—S—A
Bushes (chain tensioner)	—S—A
Grease nipple (relay arm)	—S—A
Grease nipple (connecting rod)	—S—A

INTRODUCTION/PERIODIC MAINTENANCE/ LUBRICATION INTERVALS

PERIODIC INSPECTION AND ADJUSTMENT

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.

PERIODIC MAINTENANCE/LUBRICATION INTERVALS

ITEM	REMARKS	BRAKE IN 6,000 km or 1,000 km	EVERY 12,000 km or 2 months
Valves*	Check valve clearance. Adjust if necessary.		
Spark plug	Check condition. Clean or replace if necessary.		
Air filter	Clean. Replace if necessary.		
Carburetor*	Check idle speed/starter operation. Adjust if necessary.		
Fuel line*	Check fuel hose for cracks or damage. Replace if necessary.		
Engine oil	Replace (Warm engine before draining).		
Engine oil filter*	Replace.		
Engine oil strainer*	Clean.		
Brake*	Check operation/fluid leakage/See NOTE. Correct if necessary.		
Clutch	Check operation. Adjust if necessary.		
Steering arm pivot*	Check rear arm assembly for looseness. Correct if necessary.		
Steering suspension link pivot*	Check for looseness. Moderately repack*** (Exceed OCE)		
Steering wheel*	Check operation. Moderately repack***.		
Wheels*	Check bearings/damage/runout/Spoke tightness. Repair if necessary.		
Wheel bearings*	Check bearings assembly for looseness/damage. Replace if damaged.		
Steering knuckle	Check bearings assembly for looseness. Correct if necessary. Moderately repack every 24,000 km or 21 months. **		
Steering tie rod*	Check operation/oil leakage. Repair if necessary.		
Front forks*	Check operation/oil leakage. Repair if necessary.		
Rear shock absorber*	Check coolant leakage. Repair if necessary.		
Cooling system	Replace coolant every 24,000 km or 24 months.		

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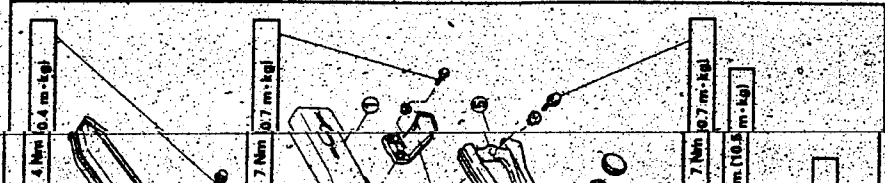
ITEM	REMARKS	SPACE IN 6,000 km 1,000 km	EVERY 12,000 km or 12 months
Drive chain	Check chain slack/alignment. Adjust if necessary. Chain and lube		
Pinions/Passengers*	Check all chains fitting and fasteners. Correct if necessary.	○	○
Sidestand*	Check operation. Repair if necessary.	○	○
Sidestand switch*	Check operation. Clean or replace if necessary.	○	○

It is recommended that these items be serviced by a Yamaha dealer.
Light soap base grease / Medium weight wheel bearing grease (OCE)
Molybdenum disulfide grease.

NOTE:

Brake system:

1. When disassembling the master cylinder or caliper cylinder, replace the brake fluid. Normally check the brake fluid level and add the fluid as required.
2. We recommended that, on the inner parts of the master cylinder and caliper cylinder, replace the oil seals every two years.
3. We recommended that replace the brake hoses every four years, or if cracked or damaged.



SWINGARM AND RELAY ARM INSPECTION

1. Inspect:

- Bearing
- Seizure/Unusual sounds/Damage

Replace.

Loss of the solid lubricant ① -- Replace.

NOTE:

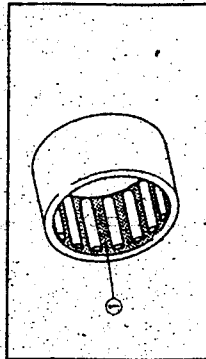
- This model is equipped with a maintenance-free POLYLUBE needle bearing, which contains a solid lubricant. This bearing does not require periodic lubrication.
- Apply the specified grease to the oil seals and collars during assembly.

The POLYLUBE bearing is made by filling the bearing with a lubricant consisting mainly of lubricating grease and an extremely highly polymeric polyethylene, then heating it and allowing the lubricant to solidify. The POLYLUBE lubricant is enclosed in the bearing race.

Special features:

- The solidness of the POLYLUBE lubricant prevents water from seeping into the bearing while preventing the lubricant from emulsifying and leaking out.
- Lubricant leakage is minimum since the bearing is filled with a large amount of lubricant and only small amounts are released onto the surface of the needles due to the heat produced by centrifugal force.

- When removing, inspecting and installing the bearing, make sure the solid lubricant does not fall out.
- If any of the lubricant falls out, replace it with a new one.



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XTZ660(H) '96 (L) WIRING DIAGRAM

