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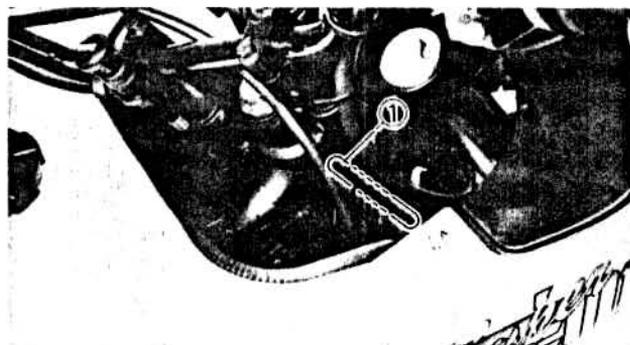
CHAPTER 1.

GENERAL INFORMATION

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GENERAL INFORMATION



MOTORCYCLE IDENTIFICATION

FRAME SERIAL NUMBER

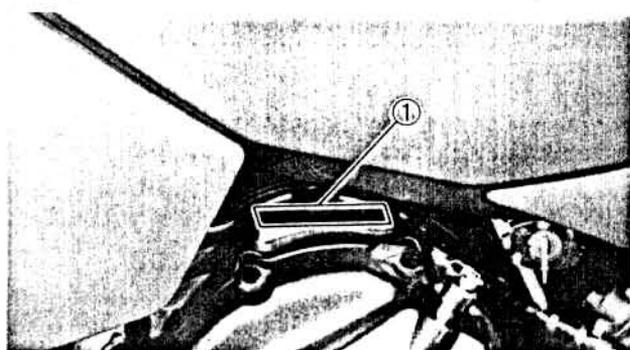
The frame serial number ① is stamped into the right side of the steering head.

Starting serial number:

3LD-000101

3SC-000101 (E)

3TD-000101 (CH)



ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the right side of the engine.

Starting serial number:

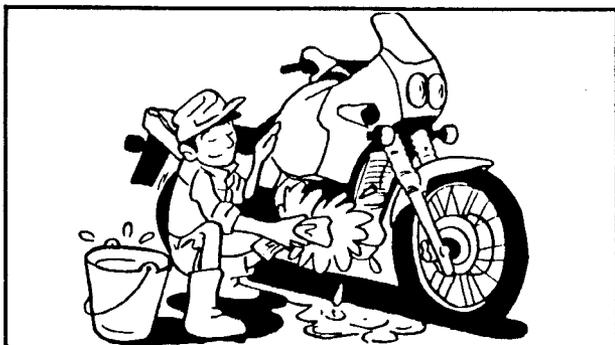
3LD-000101

3SC-000101 (E)

3TD-000101 (CH)

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.



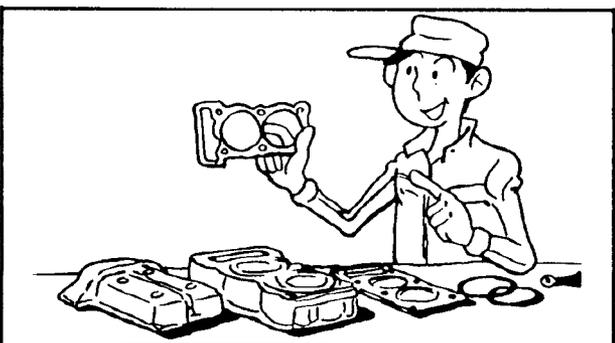
IMPORTANT INFORMATION

PREPARATION FOR REMOVAL

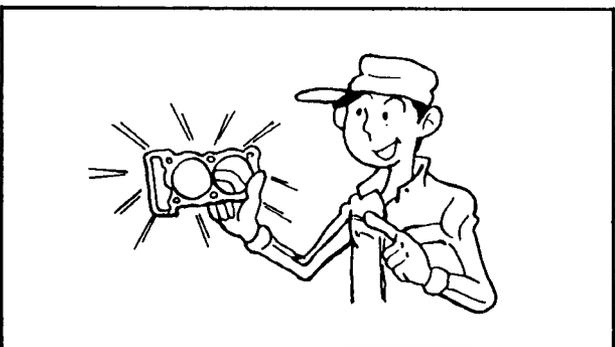
1. Remove all dirt, mud, dust, and foreign material before removal and disassembly.
2. Use proper tools and cleaning equipment. Refer to "SPECIAL TOOL".



3. When disassembling the machine, keep mated parts together. This includes gears, cylinders, pistons, and other mated parts that have been "mated" through normal wear. Mated parts must be reused as an assembly or replaced.



4. During the machine disassembly, clean all parts and place them in trays in the order of disassembly. This will speed up assembly time and help assure that all parts are correctly reinstalled.
5. Keep away from fire.



ALL REPLACEMENT PARTS

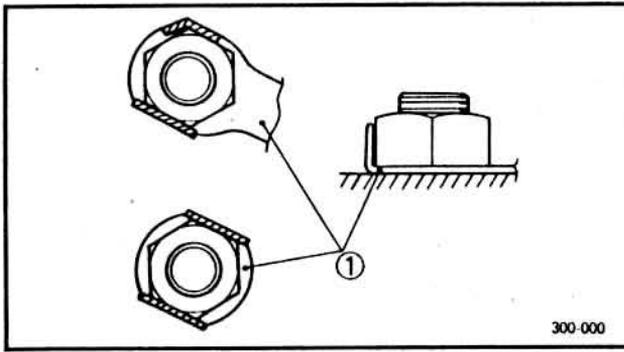
1. Use only genuine Yamaha parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment. Other brands may be similar in function and appearance, but inferior in quality.

GASKETS, OIL SEALS, AND O-RINGS

1. All gaskets, seals, and O-rings should be replaced when an engine is overhauled. All gasket surfaces, oil seal lips, and O-rings must be cleaned.
2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.

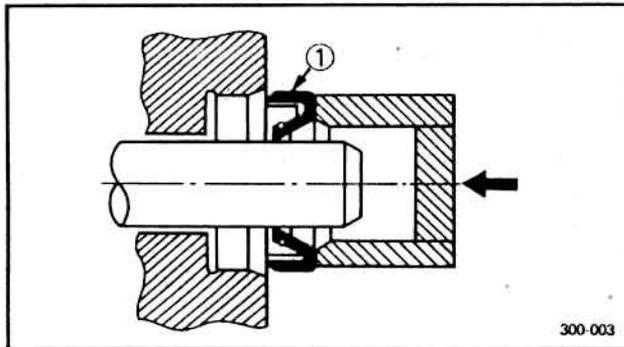
IMPORTANT INFORMATION

GEN
INFO



LOCK WASHERS/PLATES AND COTTER PINS

1. All lock washers/plates (1) and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.



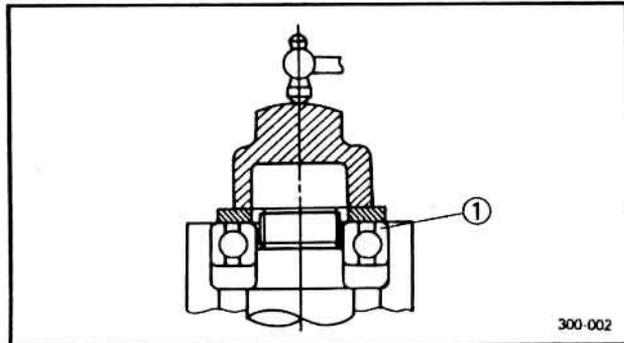
BEARINGS AND OIL SEALS

1. Install the bearing(s) and oil seal(s) with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of light-weight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.

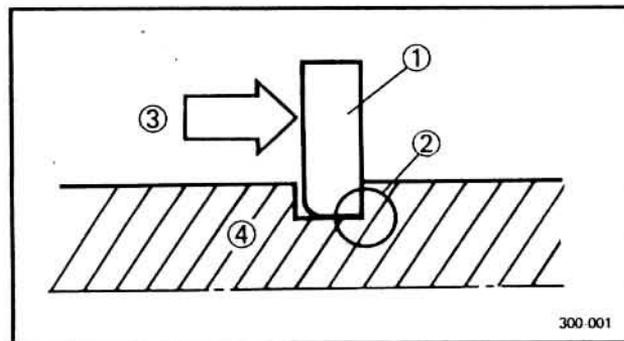
- (1) Oil seal

CAUTION:

Do not use compressed air to spin the bearings dry. This causes damage to the bearing surfaces.



- (1) Bearing



CIRCLIPS

1. All circlips should be inspected carefully before reassembly. Always replace piston pin clips after one use. Replace distorted circlips. When installing a circlip (1), make sure that the sharp edged corner (2) is positioned opposite to the thrust (3) it receives. See the sectional view.

- (4) Shaft

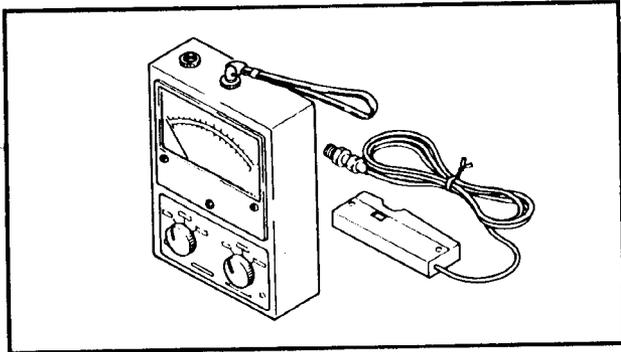
**SPECIAL TOOLS**

The proper special tools are necessary for complete and accurate tune-up and assembly. Using the correct special tool will help prevent damage caused by the use of improper tools or improvised techniques.

FOR TUNE UP

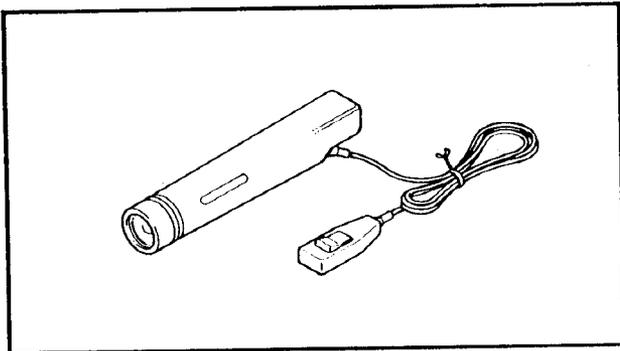
1. Inductive tachometer
P/N 90890-03113

This tool is needed for detecting engine rpm.



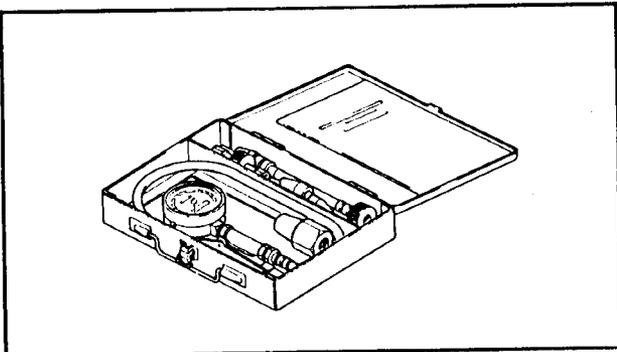
2. Inductive timing light
P/N 90890-03109

This tool is necessary for checking ignition timing.



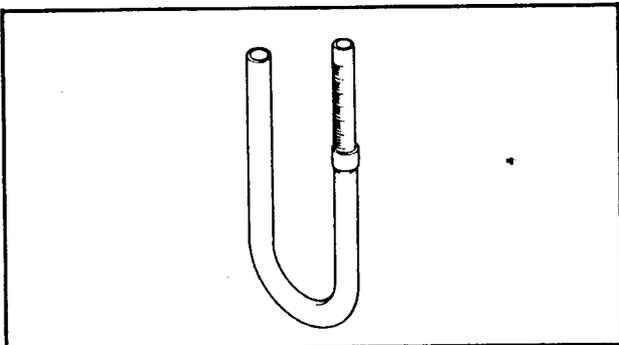
3. Compression gauge
P/N 90890-03081

This gauge is used to measure the engine compression.

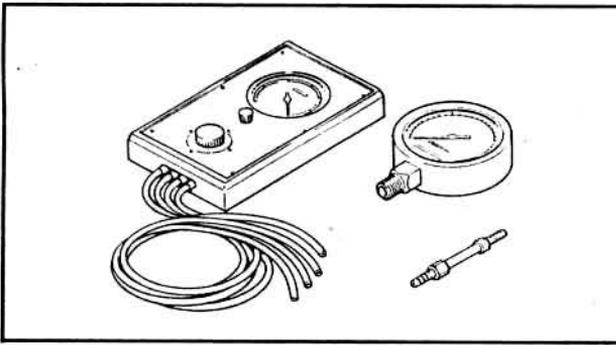


4. Fuel level gauge
P/N 90890-01312

This gauge is used to measure the fuel level in the float chamber.

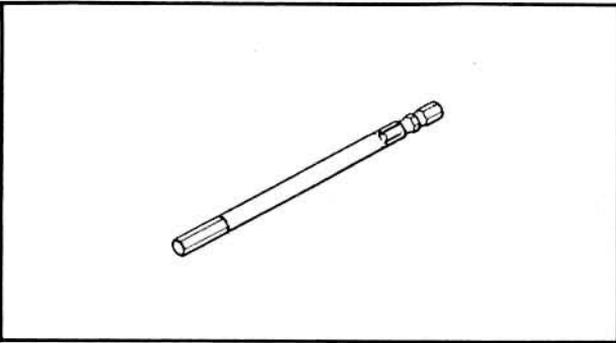


SPECIAL TOOLS



5. Vacuum gauge
P/N 90890-03094

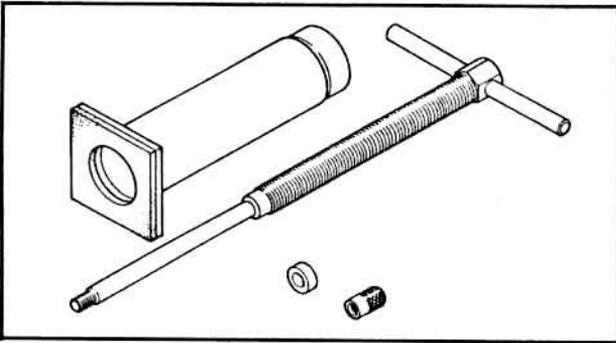
This gauge is needed for carburetor synchronization.



FOR ENGINE SERVICE

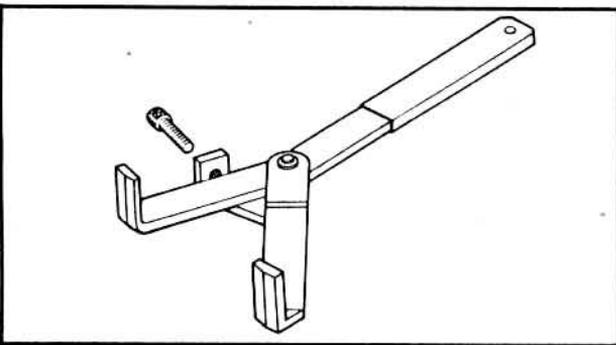
1. Hexagon wrench (6 mm)
P/N 90890-01395

This tool is used to loosen or tighten the cylinder head securing nut.



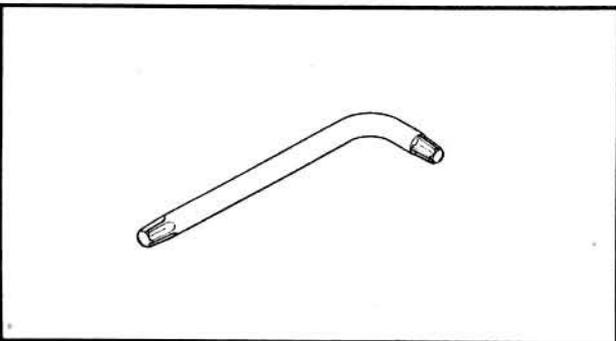
2. Piston pin puller
P/N 90890-01304

This tool is used to remove the piston pin.



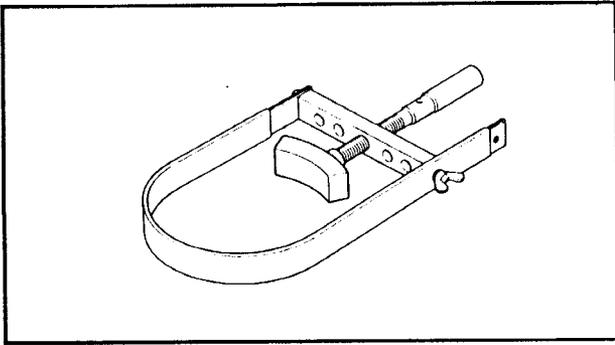
3. Universal clutch holder
P/N 90890-04086

This tool is used to hold the clutch when removing or installing the clutch boss locknut.



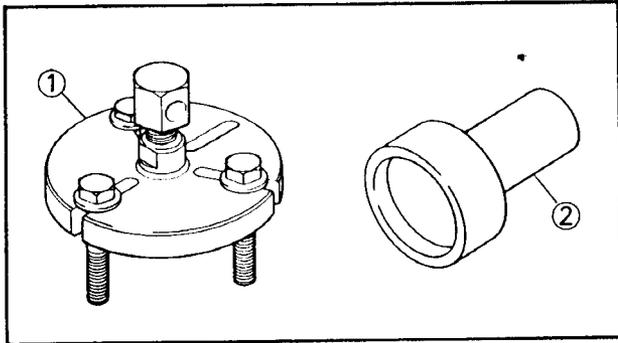
4. Torx wrench (T30)
P/N 90890-05245

This tool is used to loosen or tighten the main axle bearing retainer bolt.



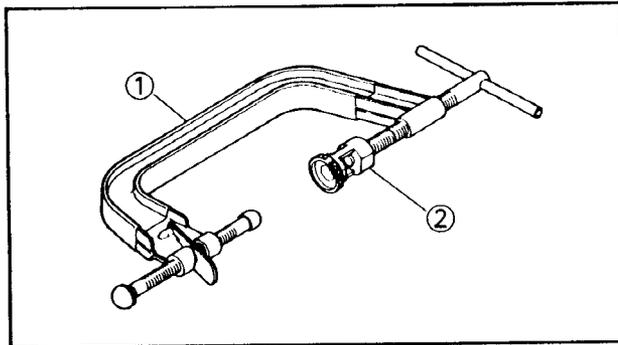
5. Rotor holder
P/N 90890-01701

This tool is used to hold the rotor.



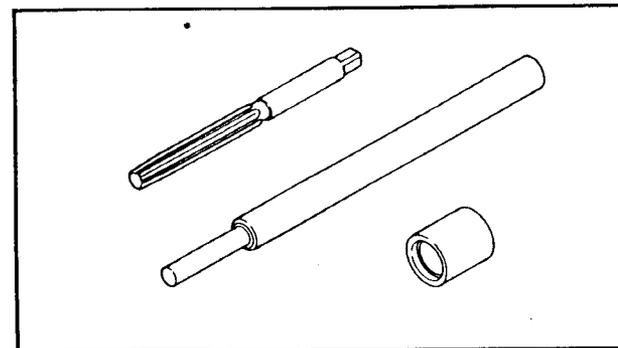
6. Rotor puller
P/N 90890-01362 ①
Adapter
P/N 90890-01382 ②

These tools are used to remove the rotor.



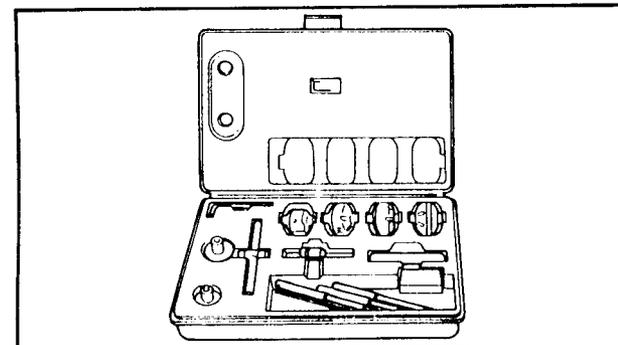
7. Valve spring compressor
P/N 90890-04019 ①
Attachment
P/N 90890-04114 ②

These tools are used to remove and install the valve assemblies.



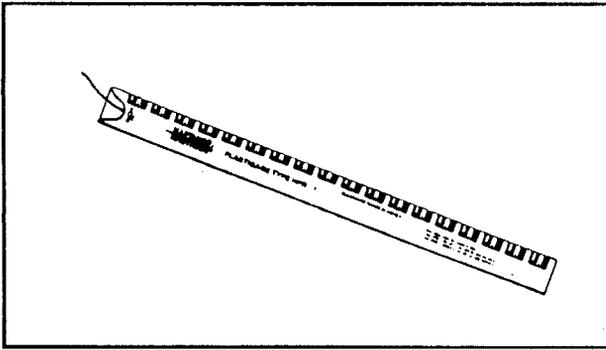
8. Valve guide remover and installer set (5.5 mm)
P/N 90890-04016

These tools are used to remove, install and re-bore the valve guide.



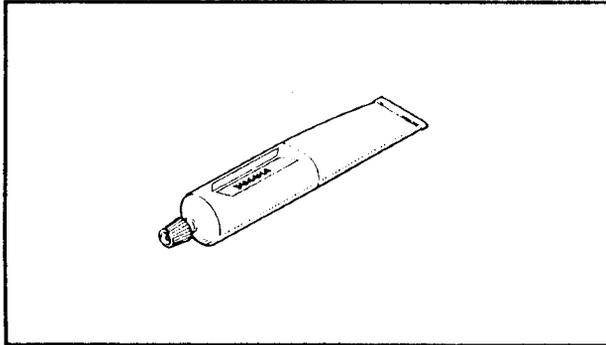
9. Valve seat cutter
P/N YM-91043

This tool is used to adjust the valve clearance.



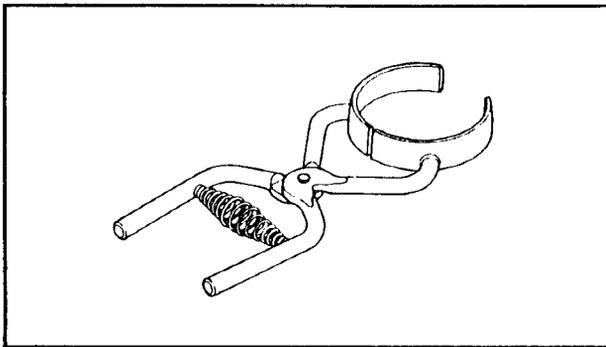
10. Plastigage® set "Green"
P/N YU-33210

This gauge is needed to measure the clearance for the connecting rod bearing and the crankshaft bearing.



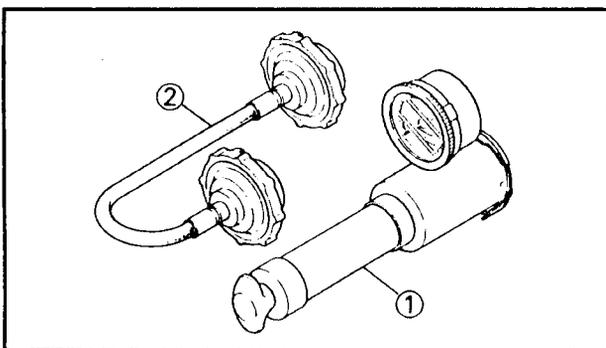
11. YAMAHA bond No. 1215
P/N 90890-85505

This sealant (bond) is used for crankcase mating surfaces, etc.



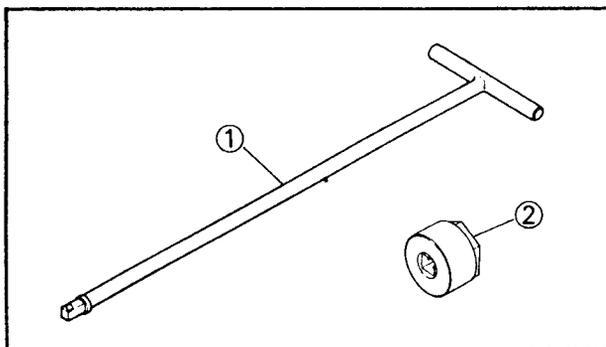
12. Piston ring compressor
P/N 90890-04121

This tool is used to compress piston rings when installing the cylinder.



13. Radiator cap tester
P/N 90890-01325 ①
Adapter
P/N 90890-01352 ②

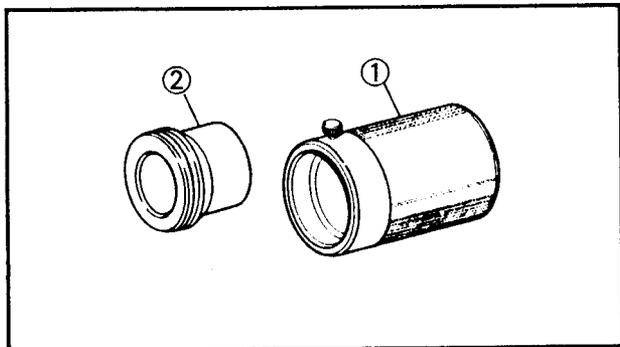
This tester is used for checking the cooling system.



FOR CHASSIS SERVICE

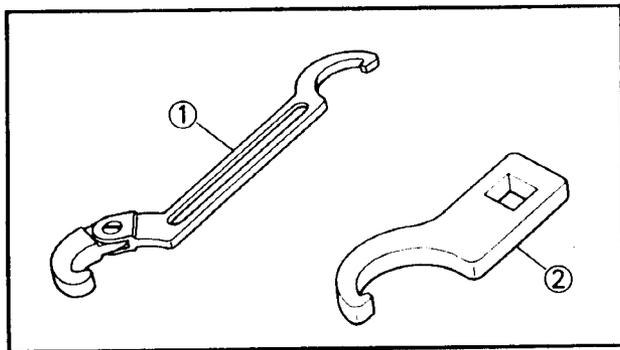
1. T-handle
P/N 90890-01326 ①
Fork damper rod holder (30 mm)
P/N 90890-01327 ②

These tools are used to loosen and tighten the front fork damper rod holding bolt.



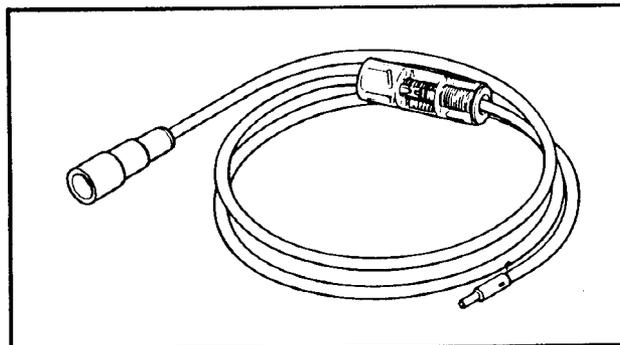
- 2. Front fork seal driver (weight)
P/N 90890-01367 ①
Adapter (43 mm)
P/N 90890-01374 ②

These tools are used when installing the fork oil seal.



- 3. Ring nut wrench
P/N 90890-01268 ①
P/N 90890-01403 ②

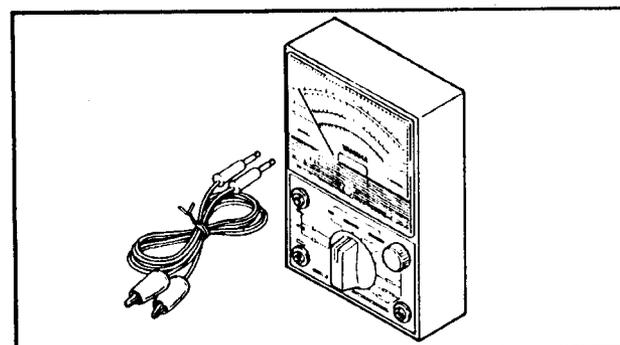
This tool is used to loosen and tighten the steering ring nut.



FOR ELECTRICAL COMPONENTS

- 1. Dynamic spark tester
P/N 90890-03144

This instrument is necessary for checking the ignition system components.



- 2. Pocket tester
P/N 90890-03112

This instrument is invaluable for checking the electrical system.



CHAPTER 2. SPECIFICATIONS

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SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	XTZ750
Model Code Number:	3LD 3SC (E) 3TD (CH)
Frame Starting Number:	3LD-000101 3SC-000101 (E) 3TD-000101 (CH)
Engine Starting Number:	3LD-000101 3SC-000101 (E) 3TD-000101 (CH)
Dimensions:	
Overall Length	2,285 mm (90.0 in) (B)(F)(GB)(NL)(E)(I) 2,355 mm (92.7 in) (D)(S)(DK)(SF)(N)(CH)
Overall Width	815 mm (32.1 in)
Overall Height	1,355 mm (53.3 in)
Seat Height	865 mm (34.1 in)
Wheelbase	1,505 mm (59.3 in)
Minimum Ground Clearance	240 mm (9.5 in)
Basic Weight:	
With Oil and Full Fuel Tank	226 kg (498 lb)
Minimum Turning Radius:	2,400 mm (94.5 in)
Engine:	
Engine Type	Liquid cooled 4-stroke, DOHC
Cylinder Arrangement	Forward inclined parallel 2-cylinder
Displacement	749 cm ³
Bore × Stroke	87 × 63 mm (3.43 × 2.48 in)
Compression Ratio	9.5 : 1
Compression Pressure	950 kPa (9.5 kg/cm ² , 135 psi)
Starting System	Electric starter
Lubrication System:	Dry sump
Engine Oil Type or Grade:	<p>SAE 10W30 type SE motor oil</p> <p>SAE 20W40 type SE motor oil</p>

GENERAL SPECIFICATIONS

SPEC



Model	XTZ750	
Engine Oil Capacity: Periodic Oil Change: With Oil Filter Replacement Total Amount	4.0 L (3.5 Imp qt, 4.2 US qt) 4.1 L (3.6 Imp qt, 4.3 US qt) 4.4 L (3.9 Imp qt, 4.7 US qt)	
Coolant Total Amount: (Including All Routes)	1.7 L (1.5 Imp qt, 1.8 US qt)	
Air Filter:	Dry type element	
Fuel: Type Tank Capacity Reserve Amount	Regular gasoline 26 L (5.7 Imp qt, 6.9 US gal) 5 L (1.1 Imp qt, 1.3 US gal)	
Carburetor: Type × Quantity Manufacturer	BDST 38 × 2 MIKUNI	
Spark Plug: Type Manufacturer Gap	DPR8EA-9/X24EPRU-9 NGK/NIPPON DENSO 0.8 ~ 0.9 mm (0.031 ~ 0.035 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 67/39 (1.718) Chain Drive 46/16 (2.875) Constant mesh 5-speed Left foot operation 1st 37/13 (2.846) 2nd 37/20 (1.850) 3rd 30/21 (1.429) 4th 27/23 (1.174) 5th 28/27 (1.037)	
Chassis: Frame Type Caster Angle Trail	Double cradle 26.5° 101 mm (3.98 in)	
Tire:	Front	Rear
	Type Size Manufacturer (Type)	With tube 90/90-21 54H BRIDGESTONE (TW47)

GENERAL SPECIFICATIONS

SPEC



Model	XTZ750	
Tire Pressure (Cold Tire): Maximum load*	184 kg (406 lb)	
Cold tire pressure	Front	Rear
Up to 90 kg (198 lb) load*	225 kPa (2.25 kg/cm ² , 33 psi)	225 kPa (2.25 kg/cm ² , 33 psi)
90 kg (198 lb) ~ Maximum load*	225 kPa (2.25 kg/cm ² , 33 psi)	250 kPa (2.5 kg/cm ² , 36 psi)
High speed riding	225 kPa (2.25 kg/cm ² , 33 psi)	250 kPa (2.5 kg/cm ² , 36 psi)
*Load is total weight of cargo, rider, passenger, and accessories.		
Brake: Front Brake Type Operation Rear Brake Type Operation	Dual disc brake Right hand operation Single disc brake Right foot operation	
Suspension: Front Suspension Rear Suspension	Telescopic fork Swingarm (Link suspension)	
Shock Absorber: Front Shock Absorber Rear Shock Absorber	Coil-Air spring/Oil damper Coil-Gas spring/Oil damper	
Wheel Travel: Front Wheel Travel Rear Wheel Travel	235 mm (9.25 in) 215 mm (8.46 in)	
Electrical: Ignition System Generator System Battery Type or Model Battery Capacity	T.C.I. (Digital) A.C. magneto generator YB14L-A 12V, 14AH	
Headlight Type:	Quartz bulb (Halogen)	
Bulb Wattage × Quantity: Headlight	12V 55W + 12V 60/55W (D, F, B, S) 12V 45/40W × 2 (SF, NL, E, DK, N) 12V 35/35W × 2 (I, GB)	
Auxiliary Light	12V 4W × 1 (D, F, B, S, SF, NL) 12V 4W × 2 (E, DK, N) 12V 3W × 2 (I) 12V 3.4W × 2 (GB)	
Tail/Brake Light Flasher Light	12V 5W/21W × 1 12V 21W × 4	

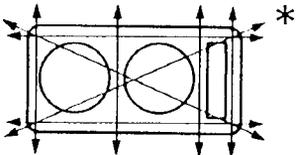
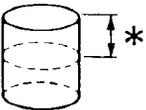
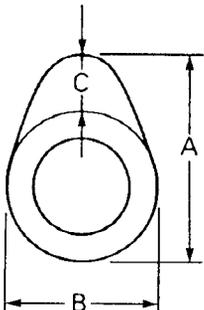
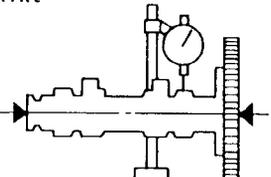
GENERAL SPECIFICATIONS

SPEC

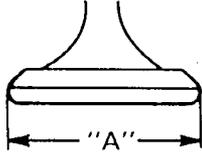
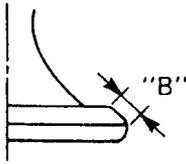
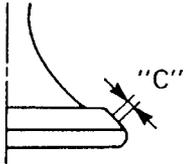
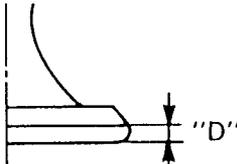
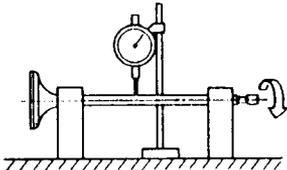


Model	XTZ750	
Indicator Light:		
Wattage x Quantity	"METER LIGHT"	12V 3.4W x 2
	"NEUTRAL"	12V 3.4W x 1
	"HIGH BEAM"	12V 3.4W x 1
	"TURN"	12V 3.4W x 2

MAINTENANCE SPECIFICATIONS
ENGINE

Model	XTZ750
<p>Cylinder Head: Warp Limit*</p> 	<p>0.03 mm (0.0012 in) * Lines indicate straightedge measurement.</p>
<p>Cylinder: Bore Size/Measuring Point*</p>  <p><Wear Limit></p>	<p>87.000 ~ 87.005 mm (3.4252 ~ 3.4254 in) 40 mm (1.6 in) 87.1 mm (3.429 in)</p>
<p>Camshaft: Drive Method Camshaft Outside Diameter Shaft-to-cap Clearance Cam Dimensions: Intake Exhaust Camshaft Runout Limit</p>  	<p>Chain drive (Right) 24.967 ~ 24.980 mm (0.9830 ~ 0.9835 in) 0.020 ~ 0.054 mm (0.0008 ~ 0.0021 in) 35.7 ~ 35.8 mm (1.4055 ~ 1.4094 in) < Limit > 35.6 mm (1.4 in) "B" 27.95 ~ 28.05 mm (1.1004 ~ 1.1043 in) < Limit > 27.85 mm (1.1 in) "C" 7.65 ~ 7.85 mm (0.3012 ~ 0.3091 in) Exhaust "A" 35.95 ~ 36.05 mm (1.4154 ~ 1.4193 in) < Limit > 35.85 mm (1.41 in) "B" 27.95 ~ 28.05 mm (1.1004 ~ 1.1043 in) < Limit > 27.85 mm (1.1 in) "C" 7.9 ~ 8.1 mm (0.3110 ~ 0.3189 in) 0.03 mm (0.0012 in)</p>
<p>Timing Chain: Chain Type/No. of Links Chain Adjustment Method</p>	<p>82 RH 2015/138 Links Automatic</p>



Model		XTZ750	
Valve, Valve Seat, Valve Guide: Valve Clearance (Cold):			
	IN.	0.15 ~ 0.20 mm (0.006 ~ 0.008 in)	
	EX.	0.25 ~ 0.30 mm (0.010 ~ 0.012 in)	
Valve Dimensions:			
			
Head Dia.	Face Width	Seat Width	Margin Thickness
"A" Head Dia.	IN.	25.9 ~ 26.1 mm (1.020 ~ 1.028 in)	
	EX.	27.9 ~ 28.1 mm (1.098 ~ 1.106 in)	
"B" Face Width	IN.	2.06 ~ 2.46 mm (0.081 ~ 0.097 in)	
	EX.	2.06 ~ 2.46 mm (0.081 ~ 0.097 in)	
"C" Seat Limit Width	IN.	0.9 ~ 1.1 mm (0.035 ~ 0.043 in)	
	EX.	0.9 ~ 1.1 mm (0.035 ~ 0.043 in)	
"D" Margin Thickness Limit	IN.	0.8 ~ 1.2 mm (0.032 ~ 0.047 in)	
	EX.	0.8 ~ 1.2 mm (0.032 ~ 0.047 in)	
Stem Outside Diameter	IN.	5.475 ~ 5.490 mm (0.2156 ~ 0.2161 in)	
	EX.	5.460 ~ 5.475 mm (0.2150 ~ 0.2156 in)	
< Limit >	IN.	5.45 mm (0.214 in)	
	EX.	5.43 mm (0.214 in)	
Guide Inside Diameter	IN.	5.50 ~ 5.51 mm (0.216 ~ 0.217 in)	
	EX.	5.50 ~ 5.51 mm (0.216 ~ 0.217 in)	
< Limit >	IN.	5.55 mm (0.219 in)	
	EX.	5.55 mm (0.219 in)	
Stem-to-Guide Clearance	IN.	0.01 ~ 0.04 mm (0.0004 ~ 0.0015 in)	
	EX.	0.03 ~ 0.05 mm (0.001 ~ 0.002 in)	
< Limit >	IN.	0.08 mm (0.003 in)	
	EX.	0.1 mm (0.004 in)	
Stem Runout Limit		0.01 mm (0.004 in)	
			
Valve Seat Width	IN.	0.9 ~ 1.1 mm (0.035 ~ 0.043 in)	
	EX.	0.9 ~ 1.1 mm (0.035 ~ 0.043 in)	

MAINTENANCE SPECIFICATIONS

SPEC

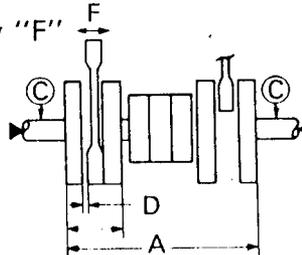


Model	XTZ750
<p>Valve Spring:</p> <p>Free Length IN. EX.</p> <p>Set Length (Valve Closed) IN. EX.</p> <p>Compressed Pressure (Valve Closed) IN. EX.</p> <p>Tilt Limit IN. EX.</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>Direction of Winding (Top View) IN. EX.</p>	<p>37.29 mm (1.47 in) 37.29 mm (1.47 in) 30.39 mm (1.2 in) 30.39 mm (1.2 in) 10.00 ~ 11.60 kg (22.05 ~ 22.57 lb) at 30.39 mm 10.00 ~ 11.60 kg (22.05 ~ 22.57 lb) at 30.39 mm 2.5°/1.7 mm (2.5°/0.067 in) 2.5°/1.7 mm (2.5°/0.067 in)</p> <p>Clockwise Clockwise</p>
<p>Piston:</p> <p>Piston Size "D" Measuring Point "H"</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>Piston Off-set Piston Off-set Direction Piston-to-Cylinder Clearance <Limit ></p>	<p>86.920 ~ 86.935 mm (3.422 ~ 3.423 in) 4.7 mm (0.185 in)</p> <p>1 mm (0.04 in) INSIDE 0.065 ~ 0.085 mm (0.0026 ~ 0.0033 in) < 0.15 mm (0.0059 in) ></p>
<p>Piston Ring:</p> <p>Top Ring:</p> <p>Type Dimensions (B × T) End Gap (Installed)</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>Side Clearance (Installed)</p> <p>2nd Ring:</p> <p>Type Dimensions (B × T) End Gap (Installed)</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>Side Clearance</p> <p>Oil Ring:</p> <p>Dimensions (B × T) End Gap (Installed)</p> <div style="text-align: center; margin: 10px 0;"> </div>	<p>Barrel 1.0 × 3.3 mm (0.039 × 0.130 in) 0.3 ~ 0.5 mm (0.012 ~ 0.020 in) 0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in)</p> <p>Taper 1.0 × 3.3 mm (0.039 × 0.130 in) 0.3 ~ 0.5 mm (0.012 ~ 0.020 in) 0.02 ~ 0.06 mm (0.0008 ~ 0.0024 in)</p> <p>2.0 × 2.8 mm (0.079 × 0.110 in) 0.2 ~ 0.7 mm (0.008 ~ 0.028 in)</p>

MAINTENANCE SPECIFICATIONS

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Model	XTZ750
Connecting Rod: Oil Clearance Bearing Color Code	0.026 ~ 0.050 mm (0.001 ~ 0.002 in) 1. Blue 2. Black 3. Brown 4. Green
Crankshaft: Crank Width "A" Runout Limit "C" Big End Side Clearance "D" Small End Free Play "F"  Oil Clearance Bearing Color Code	64.75 ~ 65.25 mm (2.549 ~ 2.569 in) 0.02 mm (0.0008 in) 0.16 ~ 0.27 mm (0.006 ~ 0.011 in) 0.8 ~ 1.0 mm (0.0315 ~ 0.0394 in) 0.020 ~ 0.038 mm (0.0007 ~ 0.0015 in) 1. Blue 2. Black 3. Brown, 4. Green 5. Yellow 6. Pink 7. Red
Balancer: Drive Method	Spur gear
Clutch: Friction Plate: Thickness Quantity Wear Limit Clutch Plate: Thickness Quantity Warp Limit Clutch Plate: Thickness Quantity Warp Limit Clutch Spring: Free Length Quantity Minimum Free Length Clutch Release Method	2.9 ~ 3.1 mm (0.114 ~ 0.122 in) 8 pcs. 2.8 mm (0.11 in) 2.2 ~ 2.4 mm (0.087 ~ 0.094 in) 1 pc. 0.1 mm (0.004 in) 1.9 ~ 2.1 mm (0.075 ~ 0.083 in) 7 pcs. 0.1 mm (0.004 in) 51.8 mm (2.04 in) 6 pcs. 50 mm (1.97 in) Outer pull, rack & pinion pull
Transmission: Main Axle Runout Limit Drive Axle Runout Limit	0.08 mm (0.003 in) 0.08 mm (0.003 in)
Shifter: Type	Guide bar

MAINTENANCE SPECIFICATIONS

SPEC



Model	XTZ750
Carburetor:	
I.D. Mark	3LD 00, 3TD 00 (CH)
Main Jet (M.J.)	# 142.5, # 140 (CH)
Main Air Jet (M.A.J.)	# 60
Jet Needle (J.N.)	5C19-3, 5C20-3 (CH)
Needle Jet (N.J.)	Y-4 (611)
Throttle Valve Size (Th.V)	# 130
Pilot Jet (P.J.)	# 42.5, # 35 (CH)
Pilot Air Jet (P.A.J.)	# 60
Bypass 1 (B.P.1)	φ0.8
2 (B.P.2)	φ0.8
3 (B.P.3)	φ0.8
Pilot Screw (P.S.)	2 turns out
Valve Seat (V.S.)	φ1.7
Starter Jet 1 (G.S.1)	# 70
2 (G.S.2)	φ0.8
Pilot Outlet (P.O.)	φ0.85, φ0.9 (CH)
Fuel Level	5.1 ~ 6.1 mm (0.2 ~ 0.24 in) Above from the float chamber line
Engine Idling Speed	1,100 ~ 1,200 r/min
Vacuum Pressure at Idling Speed	31.9 ~ 34.6 kPa (240 ~ 260 mmHg, 8.1 ~ 8.8 inHg)
Lubrication System:	
Oil Filter Type	Paper type
Oil Pump Type	Trochoid pump type
Tip Clearance	0 ~ 0.12 mm (0 ~ 0.005 in)
Side Clearance	0.03 ~ 0.08 mm (0.001 ~ 0.003 in)
Bypass Valve Setting Pressure	40 ~ 80 kPa (0.4 ~ 0.8 kg/cm ² , 5.69 ~ 11.38 psi)
Relief Valve Operating Pressure	350 ~ 450 kPa (3.5 ~ 4.5 kg/cm ² , 49.77 ~ 63.99 psi)
Cooling System:	
Radiator Core Size	Width: 380 mm (15 in) Height: 147.8 mm (5.82 in) Thickness: 32 mm (1.26 in)
Radiator Cap Opening Pressure	95 ~ 125 kPa (0.95 ~ 1.25 kg/cm ² , 13.51 ~ 17.77 psi)
Reservoir Tank Capacity < From Low to Full Level >	0.45 L (0.40 Imp qt, 0.47 US qt) < 0.15 L (0.13 Imp qt, 0.16 US qt) >
Water Pump	
Type	Single-suction centrifugal pump
Reduction Ratio	44/44 × 38/27 (1.407)
Thermostat	
Opening Temperature	80 ~ 84°C (176 ~ 183°F)

MAINTENANCE SPECIFICATIONS

SPEC



TIGHTENING TORQUE

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m•kg	ft•lb	
Cylinder head (exhaust pipe)	Stud bolt	M 8	4	15	1.5	11	
Cylinder head (camshaft cap)	Flange bolt	M 6	16	10	1.0	7.2	
Cylinder head	Nut	M10	6	40	4.0	29	
Cylinder head cover	Bolt	M 6	4	10	1.0	7.2	
Cylinder body drain bolt	Flange bolt	M 6	1	10	1.0	7.2	
Spark plug	—	M12	2	17.5	1.75	12.5	
Connecting rod	Nut	M 9	4	48	4.8	35	
Flywheel magneto	Flange bolt	M12	1	130	13	94	
Timing chain sprocket	Flange bolt	M 7	4	24	2.4	17	
Timing chain tensioner	Bolt	M 6	1	10	1.0	7.2	
Thermostat	Flange bolt	M16	1	13	1.3	9.4	
Hose clamp (thermostat-radiator)	Panhead screw	M 5	2	2	0.2	1.4	
(cylinder-thermostat)	Panhead screw	M 5	2	2	0.2	1.4	
(radiator-water pump)	Panhead screw	M 5	2	2	0.2	1.4	
Radiator protector	Panhead screw	M 5	4	5	0.5	3.6	
Radiator	Flange bolt	M 6	2	7	0.7	5.1	
Delivery hose (crankcase-cylinder)	Bolt	M10	2	21	2.1	15	
Oil pump assembly	Panhead screw	M 6	6	6	0.6	4.3	
Oil baffle plate	Flange bolt	M 6	2	10	1.0	7.2	
Drain plug (oil pan)	—	M14	1	35	3.5	25	
Oil strainer	Panhead screw	M 6	4	7	0.7	5	Stake
Relief valve stay	Flange bolt	M 6	1	10	1.0	7.2	
Drain bolt (oil strainer case)	Flange bolt	M10	1	30	3.0	22	
Carburetor joint	Bolt	M 6	4	10	1.0	7.2	
Air cleaner	Flange bolt	M 6	1	7	0.7	5.1	
Muffler protector	Screw	M 6	8	4	0.4	2.9	
Exhaust pipe (CO test)	Bolt	M 6	2	10	1.0	7.2	
Exhaust pipe	Nut	M 8	4	20	2.0	14	
Exhaust pipe protector	Screw	M 6	3	4	0.4	2.9	
Exhaust pipe and muffler	Bolt	M 8	2	20	2.0	14	
Muffler	Bolt	M 8	2	24	2.4	17	
Crankcase	Flange bolt	M10	6	40	4.0	29	
Crankcase	Flange bolt	M 6	10	12	1.2	8.7	
Crankcase	Flange bolt	M 8	11	24	2.4	17	
Balancer shaft	Screw	M 6	2	12	1.2	8.7	
Holder	Flange bolt	M 6	4	10	1.0	7.2	
Chain cover	Flange bolt	M 6	2	5	0.5	3.6	
Crankcase cover (left-rear)	Flange bolt	M 6	5	5	0.5	3.6	

MAINTENANCE SPECIFICATIONS

SPEC



Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m•kg	ft•lb	
Crankcase cover (left-front)	Panhead screw	M 5	2	4	0.4	2.9	Stake 
Starter clutch	Bolt	M 6	3	10	1.0	7.2	
Clutch spring	Screw	M 6	6	8	0.8	5.8	
Clutch boss	Nut	M20	1	7	0.7	5.1	Use lock washer
Main axle bearing stopper	Screw	M 6	3	12	1.2	8.7	
Drive sprocket	Nut	M18	1	70	7.0	51	Use lock washer
Drive axle cover plate	Bolt	M 6	5	7	7.0	5.1	
Shift cam	Screw	M 5	1	4	0.4	2.9	
Shift cam stopper lever	Bolt	M 6	1	12	1.2	8.7	
Shift fork guide	Flange bolt	M 6	2	12	1.2	8.7	
Shift arm	Flange bolt	M 6	1	12	1.2	8.7	
Shift rod	Nut	M 6	2	8	0.8	5.8	
Stopper lever	Bolt	M 8	1	22	2.2	16	
Crankcase	Screw	M 6	1	12	1.2	8.7	
Stator	Screw	M 6	3	7	0.7	5.1	
Stator assembly sensor	Screw	M 5	2	4	0.4	2.9	
Ignition coil	Screw	M 6	2	10	1.0	7.2	
Neutral switch	Screw	M 6	2	4	0.4	2.9	
Starter motor	Flange bolt	M 6	2	10	1.0	7.2	
Thermo switch	—	M 6	1	28	2.8	20	
Thermo switch housing	—	PT 1/8	1	15	1.5	11	
Other engine part	Flange bolt	M 6	—	10	1.0	7.2	
	Screw	M 6	—	7	0.7	5	
	Flange bolt	M 8	—	20	2.0	14	

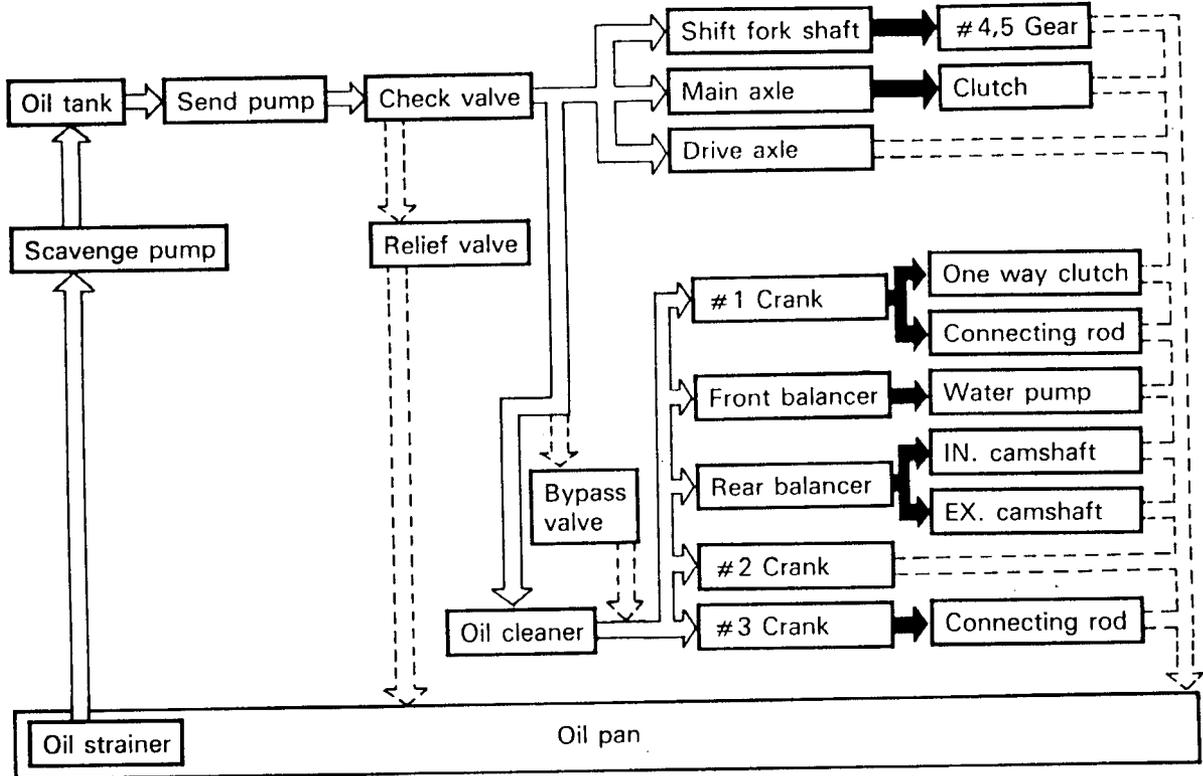


Model

XTZ750

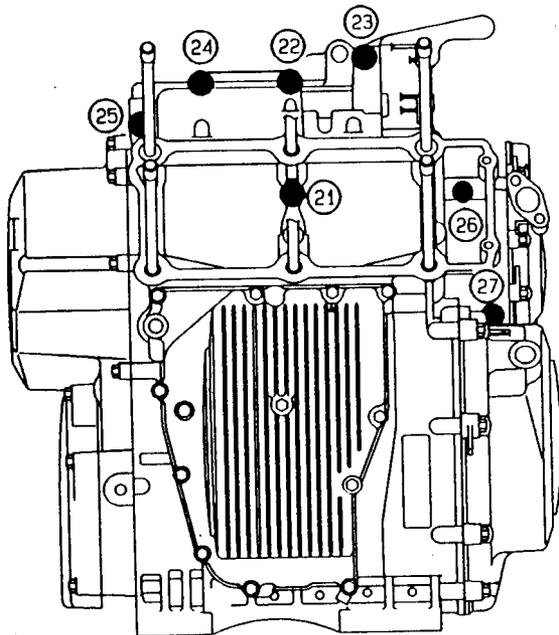
Lubrication Chart:

➔ Pressured feed
➔ Splashed

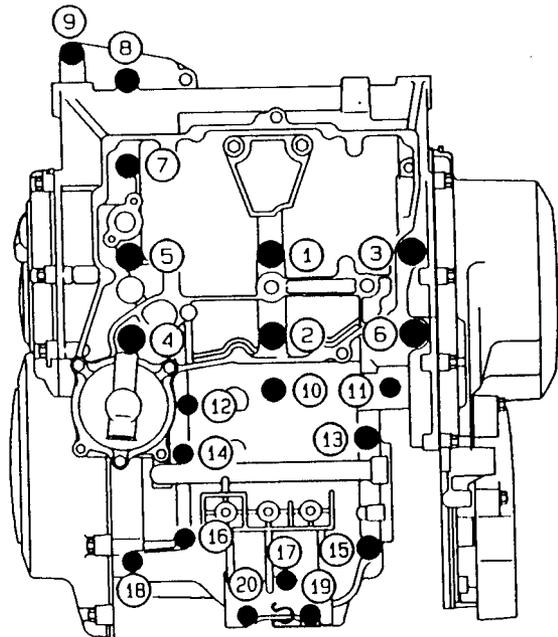


Crankcase Tightening Sequence:

Crankcase (Upper)



Crankcase (Lower)




CHASSIS

Model	XTZ750
Steering System: Steering Bearing Type	Taper Roller Bearing
Front Suspension: Front Fork Travel Front Spring Free Length < Limit > Spring Rate: K1 Stroke K1 Optional Spring Oil Capacity Oil Level Oil Grade Enclosed Air Pressure: Standard	235 mm (9.25 in) 544.5 mm (21.4 in) < 517 mm (20.4 in) > 4.5 N/mm (0.45 kg/mm, 25.2 lb/in) 0.0 ~ 235 mm (0.0 ~ 9.25 in) No 669 cm ³ (23.5 Imp oz, 22.6 US oz) 130 mm (5.12 in) From top of inner tube fully compressed without spring. Fork oil 10W or equivalent 100 kPa (1 kg/cm ² , 14.2 psi)
Rear Suspension: Shock Absorber Travel Spring Free Length Fitting Length Spring Rate K1 Stroke K1 Optional Spring Enclosed Gas Pressure: Standard	82 mm (3.23 in) 240 mm (9.45 in) 457 mm (18 in) 140 N/mm (14.0 kg/mm, 784 lb/in) 0.0 ~ 82.0 mm (0.0 ~ 3.2 in) No 2,000 kPa (20 kg/cm ² , 284 psi)
Swingarm: Free Play Limit Side Clearance	1.0 mm (0.039 in) at swingarm end Move swingarm end side to side 0.3 mm (0.012 in) at swingarm pivot
Front Wheel: Type Rim Size Rim Material Rim Runout Limit Radial Lateral	Spoke wheel 1.85 × 21 Aluminum 1.0 mm (0.039 in) 0.5 mm (0.020 in)
Rear Wheel: Type Rim Size Rim Material Rim Runout Limit Radial Lateral	Spoke wheel MT3.00 × 17 Aluminum 1.0 mm (0.039 in) 0.5 mm (0.020 in)
Drive Chain: Type/Manufacturer No. of Links Chain Free Play	520VL2/DAIDO 112 25 ~ 35 mm (0.98 ~ 1.38 in)



TIGHTENING TORQUE

Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m•kg	ft•lb	
Handle crown and inner tube	M 8	23	2.3	17	See Note
Handle crown and steering shaft	M14	80	8.0	58	
Handlebar holder (upper) and handlebar holder (under)	M 8	20	2.0	14	
Steering shaft and ring nut	M25	5.5	0.55	4	
Cowling stay and frame	M 8	15	1.5	11	
Cowling stay and cowling (front)	M 6	7	0.7	5.1	
Cowling stay and ignitor unit	M 6	7	0.7	5.1	
Frame and rectifier/regulator	M 6	7	0.7	5.1	
Cowling stay and conduction unit	M*6	7	0.7	5.1	
Cowling stay and horn	M 6	7	0.7	5.1	
Cowling (front) and side cowling (left and right)	M 5	5	0.5	3.6	
Side cowling (left and right) and fuel tank	M 5	5	0.5	3.6	
Under bracket and joint	M6	7	0.7	5.1	
Front master cylinder and master cylinder cap	M 4	1.5	0.15	1	
Speedometer and cowling stay	M 6	7	0.7	5.1	
Handle crown and main switch	M 6	7	0.7	5.1	
Handlebar holder (under) and nut	M10	27	2.7	19	
Engine mounting and frame	M10	58	5.8	42	
Frame and down tube (front)	M 8	23	2.3	17	
Frame and down tube (rear-left)	M10	32	3.2	23	
Frame and down tube (rear-right)	M 8	23	2.3	17	
Engine protector and frame	M 6	7	0.7	5.1	
Pivot shaft and frame	M16	90	9.0	65	
Swingarm and relay arm	M14	50	5.0	36	
Relay arm and connecting rod	M14	50	5.0	36	
Connecting rod and rear arm	M14	50	5.0	36	
Rear shock absorber and frame	M10	35	3.5	25	
Rear shock absorber and relay arm	M10	35	3.5	25	
Chain tensioner	M 8	23	2.3	17	
Chain case and swingarm	M 6	4	0.4	2.9	
Chain protector and swingarm	M 6	7	0.7	5.1	
Chain guide and swingarm	M 6	7	0.7	5.1	
Fuel tank bracket and fuel tank	M 6	7	0.7	5.1	
Fuel tank bracket and frame	M 8	15	1.5	11	
Fuel tank and frame	M 6	7	0.7	5.1	
Fuel pump and frame	M 6	7	0.7	5.1	
Ignition coil and frame	M 6	7	0.7	5.1	
Rear carrier (front) and frame	M 8	20	2.0	14	
Rear carrier (rear) and frame	M 6	10	1.0	7.2	
Rear side cover and rear carrier	M 5	4	0.4	2.9	
Rear carrier and flasher bracket	M 6	7	0.7	5.1	
Helmet holder and flasher bracket	M 6	7	0.7	5.1	
Seat and frame	M 6	7	0.7	5.1	
Fuel cock and fuel tank	M 6	5	0.5	3.6	
Frame and battery box	M 6	7	0.7	5.1	

MAINTENANCE SPECIFICATIONS

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Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m•kg	ft•lb	
Mud guard and frame	M 6	7	0.7	5.1	
Oil tank and frame	M 6	7	0.7	5.1	
Side cover and frame	M 6	4	0.4	2.9	
Recovery tank and frame	M 6	6	0.6	4.3	
License bracket and frame	M 8	8	0.8	5.8	
License bracket and tail/brake light	M 6	7	0.7	5.1	
Rear reflector and stay	M 5	4	0.4	2.9	
License bracket number plate stay	M 6	4	0.4	2.9	
Front wheel axle and nut	M14	100	10.0	72	
Rear wheel axle and nut	M16	90	9.0	6.5	
Brake caliper (front) and front fork	M10	35	3.5	25	
Brake caliper (rear) and bracket	M10	35	3.5	25	
Sidestand and frame	M10	40	4.0	29	
Footrest bracket and frame	M10	45	4.5	32	
Footrest (for passenger) and frame	M 8	20	2.0	14	
Master cylinder (rear brake) and frame	M 8	20	2.0	14	
Reservoir tank (rear brake) and frame	M 6	4	0.4	2.9	
Sidestand switch and frame	M 5	4	0.4	2.9	
Brake hose (union bolt)	M10	25	2.5	18	
Brake hose and brake hose holder	M10	18	1.8	13	

NOTE: _____

1. First, tighten the ring nut approximately 38 Nm (3.8 m•kg, 27 ft•lb) by using the torque wrench, then loosen the ring nut one turn.
2. Retighten the ring nut to specification.

MAINTENANCE SPECIFICATIONS

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ELECTRICAL

Model	XTZ750
Voltage Ignition System: Ignition Timing (B.T.D.C.) Advanced Timing (B.T.D.C.) Advancer Type	12V 10° at 1,150 r/min 43° at 6,000 r/min Electrical type
<p style="text-align: center;">Ignition Timing (B.T.D.C.)</p> <p style="text-align: center;">Engine Speed (× 10³ r/min)</p>	
T.C.I.: Pickup Coil Resistance (Color) T.C.I. Unit/Manufacturer	184 ~ 276Ω at 20°C (68°F) (Blue/Yellow – Green/White) TNDF06/NIPPON DENSO
Ignition Coil: Model/Manufacturer Minimum Spark Gap Primary Winding Resistance Secondary Winding Resistance Spark Plug Cap: Type Resistance	JO246/NIPPON DENSO 6 mm (0.24 in) 2.38 ~ 3.22Ω at 20°C (68°F) 12 ~ 18 kΩ at 20°C (68°F) Resin type 10 kΩ at 20°C (68°F)
Charging System: Type	A.C. magneto generator

MAINTENANCE SPECIFICATIONS

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Product: Yamaha XTZ750 Motorcycle Service Repair Workshop Manual

Full Download: <https://www.arepairmanual.com/downloads/yamaha-xtz750-motocycle-service-repair-workshop-manual/>

Model	XTZ750
A.C. Generator: Model/Manufacturer Nominal Output	TLNZ29/NIPPON DENSO 14V 25A at 5,000 r/min
<p style="text-align: center;">Output Current</p> <p style="text-align: center;">Engine Speed ($\times 10^3$ r/min)</p>	
Stator Coil Resistance	0.20 ~ 0.30 Ω at 20°C (68°F) (White—White)
Rectifier/Regulator: Model/Manufacturer Type Voltage Regulator No load Regulated Voltage Rectifier Capacity Withstand Voltage	SH569/SINDENGEN Semi conductor—Short circuit type 14.3 ~ 15.3V 25A 240V
Battery: Specific Gravity	1.280
Electrical Starter System: Type Starter Motor: Model/Manufacturer Output Brush—Overall Length < Limit > Commutator Dia. Wear Limit Mica Undercut Starter Relay: Model/Manufacturer Amperage Rating	Constant mesh type SM-13/MITSUBA 0.8 kW 12.5 mm (0.49 in) < 5 mm (0.20 in) > 28.0 mm (1.10 in) 27.0 mm (1.06 in) 0.7 mm (0.028 in) MS5D-191/HITACHI 100A
Horn: Type/Quantity Model/Manufacturer Maximum Amperage	Plane type/1 pc. YF-12/NIKKO 2.5A

Sample of manual. Download All 425 pages at:

<https://www.arepairmanual.com/downloads/yamaha-xtz750-motocycle-service-repair-workshop-manual/>