FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and new data for the FZ750S. For complete information on service procedures, it is necessary to use this Supplementary Service Manual together with following manual:

FZ750N Service Manual (LIT-11616-04-66)

FZ750S
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 motorrepair technology. Without such knowledge, attemptéd repairs or service to this model may render it unfit to use and/or unsafe.

Yamaha Motor Company, Ltd. is continually striving to improve all models manufactured by Yamaha. Modifications and significant changes in specifications or procedures will be forwarded to all Authorized Yamaha dealers and will, where applicable, appear in future editions of this manual.

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.

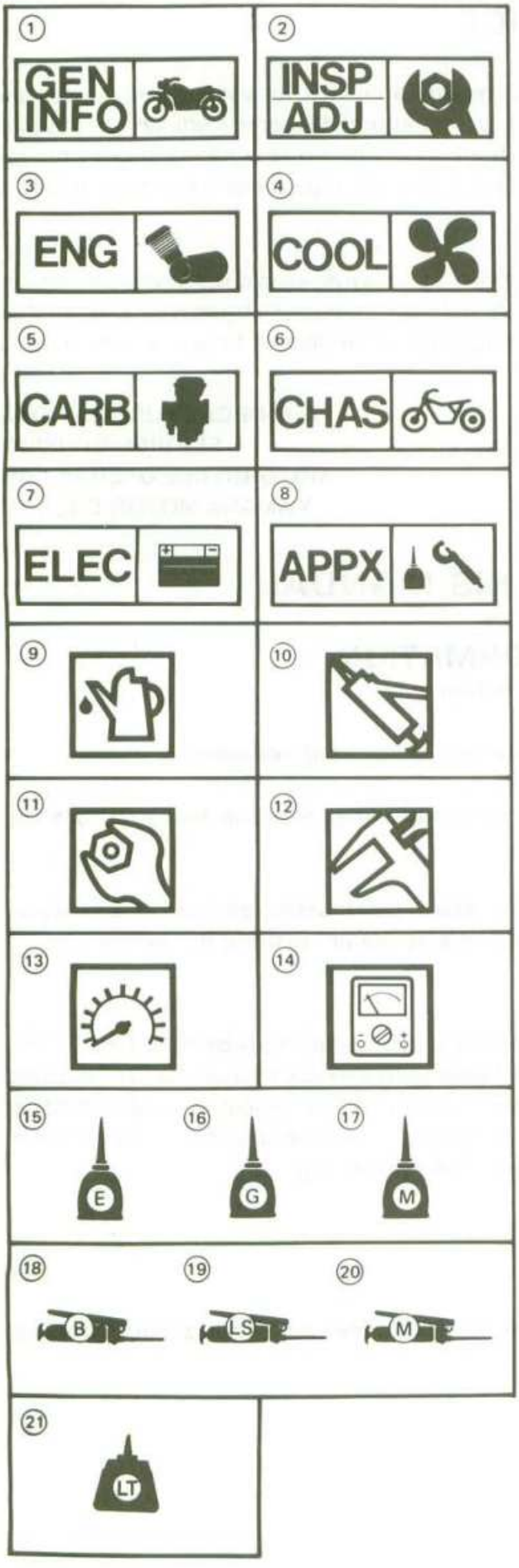
MANUAL FORMAT

All of the procedures in this manual are organized in 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 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 ⑭ are used to identify the specifications appearing.

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®)

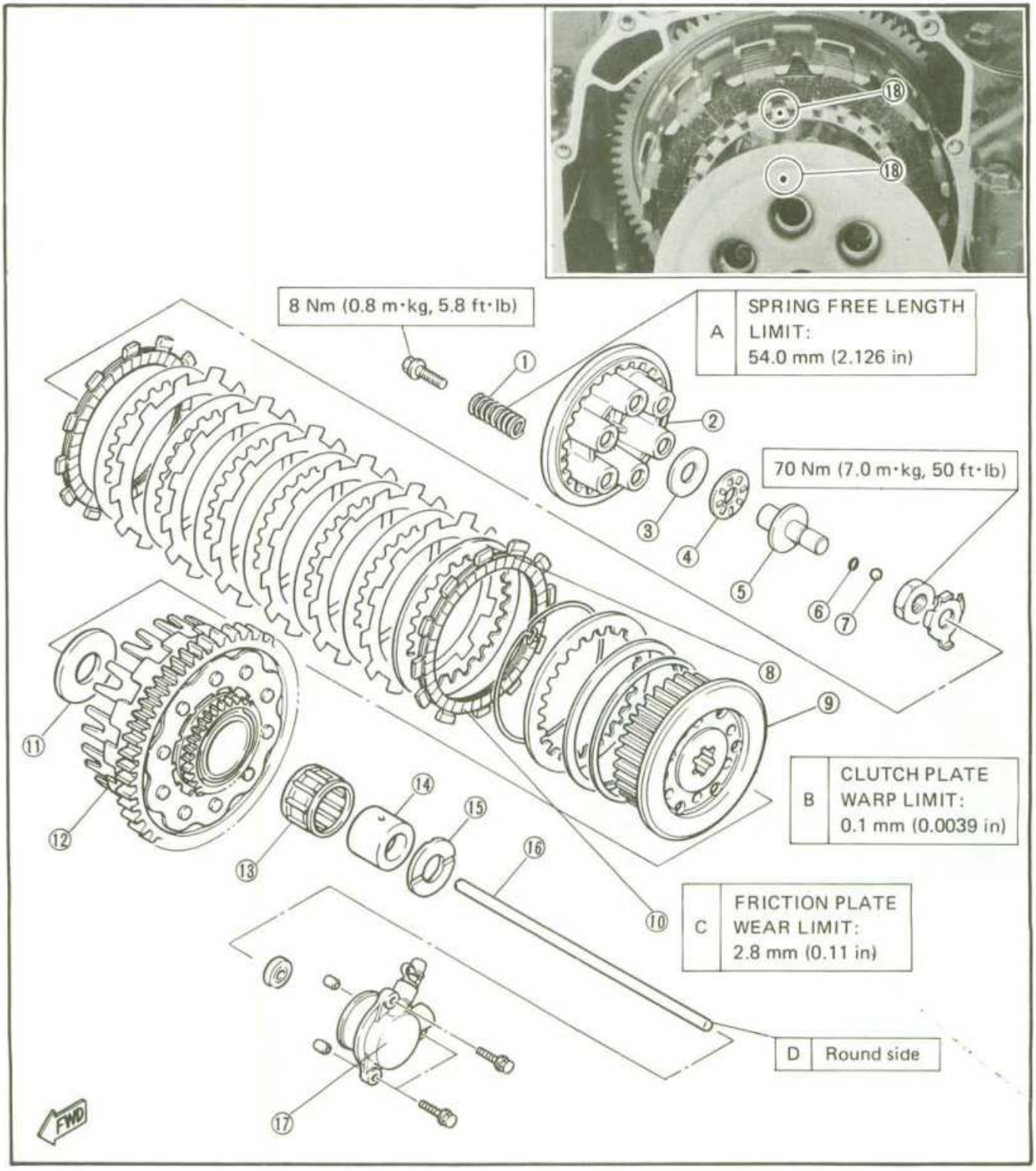
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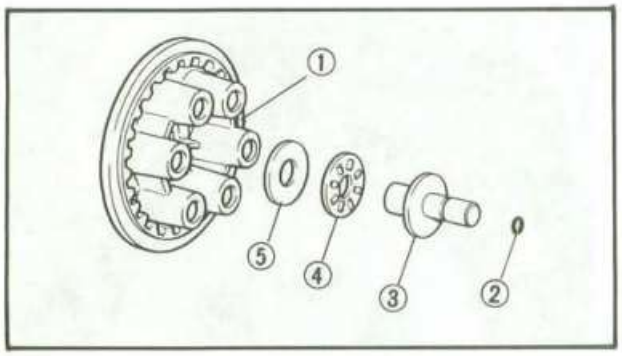
CLUTCH

① Clutch spring
② Pressure plate
③ Washer
④ Push rod bearing
⑤ Push rod #1
⑥ O-ring
⑦ Push rod ball
⑧ Clutch plate
⑨ Clutch boss
⑩ Friction plate
⑪ Washer
⑫ Primary driven gear
⑬ Bearing
⑭ Spacer
⑮ Thrust washer
⑯ Push rod #2
⑰ Clutch release assembly
⑱ Match mark



Push rod bearing

1. Remove:
   - Clutch spring holding screws
   - Clutch springs
   - Pressure plate
   - Push rod #1
   - Push rod bearing
   - Washer

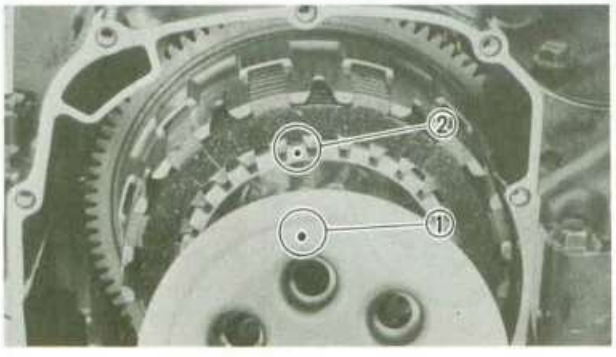


2. Inspect:
   - Pressure plate ①
   - O-ring ②
   - Push rod #1 ③
   - Push rod bearing ④
   - Washer ⑤

   Damage → Replace.

3. Install:
   - Washer
   - Push rod bearing
   - Push rod #1
   - Pressure plate
   - Clutch springs
   - Clutch spring holding screws

Clutch Spring Holding Screws:
8 Nm (0.8 m·kg, 5.8 ft·lb)



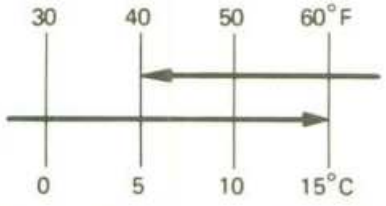
NOTE:

- Align the pressure plate mark ① with clutch boss mark ②.

APPENDICES

SPECIFICATIONS

GENERAL SPECIFICATIONS

Item \ Model	FZ750S	
Model Code Number:	1ML	1LJ
Engine Starting Number:	1AE-005101	1LJ-000101
Vehicle Identification Number:	JYA1AE00 * GA005101	JYA1LJ00 * GA000101
Dimensions:		
Overall Length	2,225 mm (87.6 in)	
Overall Width	755 mm (29.7 in)	
Overall Height	1,165 mm (45.9 in)	
Seat Height	790 mm (31.1 in)	
Wheelbase	1,485 mm (58.5 in)	
Minimum Ground Clearance	160 mm (6.3 in)	
Basic Weight:		
Weight Oil and Full-Fuel Tank	232 kg (511 lb)	
Minimum Turning Radius:	3,200 mm (126 in)	
Engine:		
Engine Type	Liquid cooled 4-stroke gasoline, DOHC	
Cylinder Arrangement	Parallel, 4-cylinder, Forward inclined	
Displacement	749 cm^3	
Bore x Stroke	68.0 x 51.6 mm (6.68 x 2.03 in)	
Compression Ratio	11.2 : 1	
Compression Pressure	1,078.8 kPa (11.0 kg/cm^2, 156 psi)	
Starting System	Electric starter	
Lubrication System:	Wet sump	
Oil Type or Grade:		
Engine Oil	 Yamalube 4-cycle oil or SAE 20W40 type SE motor oil (If temperature does not go below 5°C (40°F)) SAE 10W30 type SE motor oil (If temperature does not go above 15°C (60°F))	
Oil Capacity:		
Engine Oil:		
Periodic Oil Change	2.70 L (2.38 Imp qt, 2.85 US qt)	
With Oil Filter Replacement	3.00 L (2.6 Imp qt, 3.1 US qt)	
Total Amount	3.50 L (3.1 Imp qt, 3.7 US qt)	
Coolant Total Amount (Including All Routes)	2.59 L (2.28 Imp qt, 2.74 US qt)	
Air Filter:	Dry type element	
Fuel:		
Type	Regular gasoline	
Tank Capacity	22.0 L (4.8 Imp gas, 5.8 US gal)	
Carburetor:		
Type/Manufacturer	BDS34 x 4/MIKUNI	

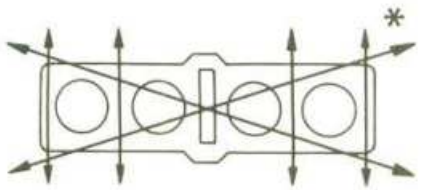
Item \ Model	FZ750S	
Spark Plug:		
Type/Manufacturer	DP8EA-9/NGK, X24EP-U9/NIPPONDENSO	
Gap	0.8 ~ 0.9 mm (0.031 ~ 0.035 in)	
Clutch Type:	Wet, multiple-disc	
Transmission:		
Primary Reduction System	Spar gear	
Primary Reduction Ratio	91/48 (1.896)	
Secondary Reduction System	Chain Drive	
Secondary Reduction Ratio	45/16 (2.813)	
Transmission Type	Constant mesh, 6-speed	
Operation	Left foot operation	
Gear Ratio:		
1st	37/13 (2.846)	
2nd	35/16 (2.188)	
3rd	32/18 (1.778)	
4th	30/20 (1.500)	
5th	28/22 (1.273)	
6th	26/24 (1.083)	
Chassis:		
Frame Type	Double cradle	
Caster Angle	25.5°	
Trail	94 mm (3.7 in)	
Tire:		
Type	Tubeless	
Size (F)	120/80 V16-V240	
Size (R)	130/80 V18-V240	
Tire Pressure (Cold tire):		
Basic Weight:		
With Oil and Full Fuel Tank	232 kg (511 lb)	
Maximum Load *	213 kg (470 lb)	
Cold Tire Pressure	Front	Rear
Up to 90 kg (198 lb) Load *	196 kPa (2.0 kg/cm², 28 psi)	226 kPa (2.3 kg/cm², 32 psi)
90 kg (198 lb) ~ Maximum Load *	226 kPa (2.3 kg/cm², 32 psi)	284 kPa (2.9 kg/cm², 42 psi)
High Speed Riding	226 kPa (2.3 kg/cm², 32 psi)	245 kPa (2.5 kg/cm², 36 psi)
* Load is the total weight of cargo, rider, passenger, and accessories.		
Brake:		
Front Brake Type	Dual disc brake	
Operation	Right hand operation	
Rear Brake Type	Single disc brake	
Operation	Right foot operation	
Suspension:		
Front Suspension	Telescopic fork	
Rear Suspension	Swingarm (Link suspension)	
Shock Absorber:		
Front Shock Absorber	Coil spring, Air, Oil damper	
Rear Shock Absorber	Coil spring, Oil/Gas damper	

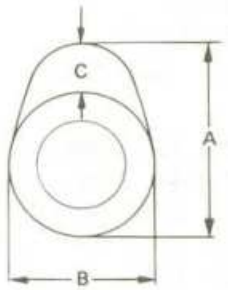
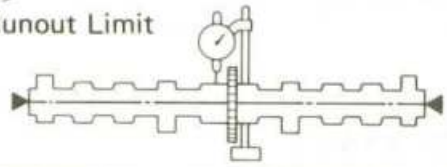
Item \ Model	FZ750S
Wheel Travel:	
Front Wheel Travel	140 mm (5.5 in)
Rear Wheel Travel	120 mm (4.7 in)
Electrical:	
Ignition System	BATTERY
Generator System	AC generator
Battery Type or Model	YB14L
Battery Capacity	12V 14AH
Headlight Type:	Bulb type (Quartz bulb)
Bulb Wattage x Quantity:	
Headlight	12V, 35W/35W x 1
Tail/Brake Light	12V, 8W/27W x 2
Flasher Light	12V, 27W x 4
Meter Light	12V, 3.4W x 4
Licence Light	12V, 8W x 1
Parking Light	12V, 8W x 2
Indicator Light:	
Wattage x Quantity:	
"NEUTRAL"	12V, 3.4W x 1
"HIGH BEAM"	12V, 3.4W x 1
"TURN"	12V, 3.4W x 2
"OIL"	12V, 3.4W x 1

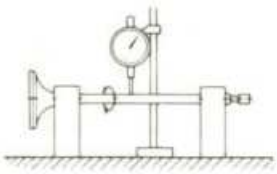
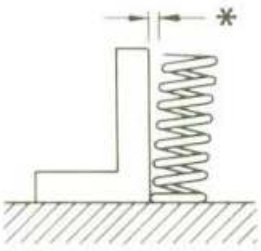
MAINTENANCE SPECIFICATIONS

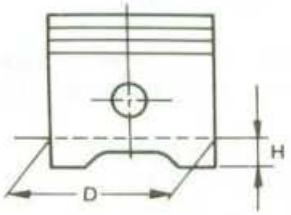
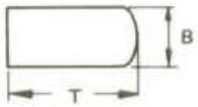
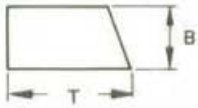
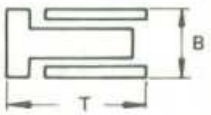
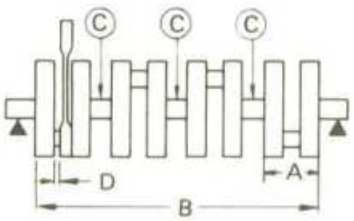
Engine

Item \ Model	FZ750S
Cylinder Head:	
Warp Limit *	0.03 mm (0.0012 in) *Lines indicate straightedge measurement
Cylinder:	
Bore Size	68,000 ~ 68,005 (2.67717 ~ 2.67736 in)
Taper Limit	0.05 mm (0.002 in)
Out of Round Limit	0.05 mm (0.002 in)



Item \ Model	FZ750S
Camshaft:	
Drive Method	Chain drive (Center)
Cam Cap Inside Dia.	24.500 ~ 24.521 mm (0.9646 ~ 0.9654 in)
Camshaft Outside Dia.	24.437 ~ 24.450 mm (0.9621 ~ 0.9626 in)
Shaft-to-Cap Clearance	I-2, I-3, E-2, E-3: 0.050 ~ 0.084 mm (0.00197 ~ 0.00331 in) I-1, I-4, E-1, E-4: 0.020 ~ 0.054 mm (0.000787 ~ 0.00213 in)
Cam Dimensions	
Intake "A"	32.55 ~ 32.65 mm (1.2815 ~ 1.2854 in)
<Limit>	32.45 mm (1.278 in)
Intake "B"	24.95 ~ 25.05 mm (0.9823 ~ 0.9862 in)
<Limit>	24.85 mm (0.9783 in)
Exhaust "A"	32.4 ~ 32.5 mm (1.2756 ~ 1.2795 in)
<Limit>	32.3 mm (1.27 in)
Exhaust "B"	24.95 ~ 25.05 mm (0.9823 ~ 0.9862 in)
<Limit>	24.85 mm (0.978 in)
Camshaft Runout Limit	0.03 mm (0.0012 in)
	
Cam Chain:	
Cam Chain Type/No. of Links	DID219FTS (BUSH CHAIN)/110 Links
Cam Chain Adjustment Method	Automatic
Valve, Valve Seat, Valve Guide:	
Valve Clearance (Cold):	
IN.	0.11 ~ 0.20 mm (0.0043 ~ 0.0079 in)
EX.	0.21 ~ 0.30 mm (0.0083 ~ 0.0118 in)
Valve Dimensions:	
	Head Dia. / Face Width / Seat Width / Margin Thickness
"A" Head Dia.	
IN.	20.9 ~ 21.1 mm (0.8228 ~ 0.8307 in)
EX.	22.9 ~ 23.1 mm (0.9016 ~ 0.9094 in)
"B" Face Width	
IN.	1.98 ~ 2.55 mm (0.0779 ~ 0.1004 in)
EX.	1.98 ~ 2.55 mm (0.0779 ~ 0.1004 in)
"C" Seat Width	
IN.	0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in)
EX.	0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in)
"D" Margin Thickness	
IN.	0.6 ~ 0.8 mm (0.0236 ~ 0.0315 in)
EX.	0.6 ~ 0.8 mm (0.0236 ~ 0.0315 in)
Stem Outside Dia.:	
IN.	4.975 ~ 4.990 mm (0.1959 ~ 0.1965 in)
EX.	4.960 ~ 4.975 mm (0.1953 ~ 0.1959 in)
<Limit>	
IN.	4.945 mm (0.1947 in)
EX.	4.930 mm (0.1941 in)

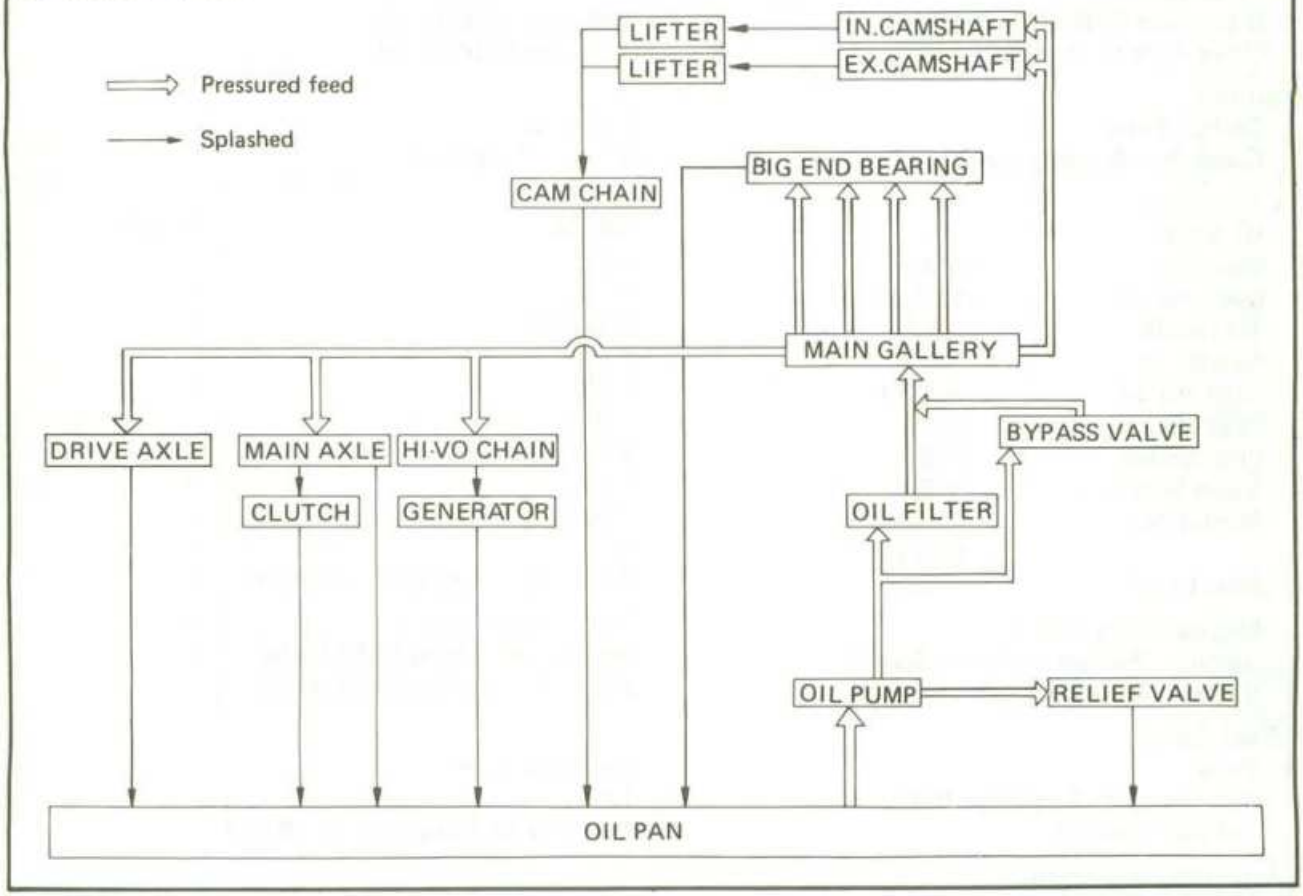
Item \ Model	FZ750S
Guide Inside Dia:	
IN.	5.000 ~ 5.012 mm (0.1969 ~ 0.1973 in)
EX.	5.000 ~ 5.012 mm (0.1969 ~ 0.1973 in)
<Limit>	
IN.	5.05 mm (0.1988 in)
EX.	5.05 mm (0.1988 in)
Stem-to-Guide Clearance:	
IN.	0.010 ~ 0.037 mm (0.0004 ~ 0.0015 in)
EX.	0.025 ~ 0.052 mm (0.0010 ~ 0.0020 in)
<Limit>	
IN.	0.08 mm (0.0031 in)
EX.	0.10 mm (0.0039 in)
Stem Runout Limit:	0.01 mm (0.0004 in)
	
Valve Spring:	
Free Length:	
IN.	39.76 mm (1.565 in)
EX.	39.96 mm (1.573 in)
Set Length (Valve Closed):	
IN.	35.0 mm (1.378 in)
EX.	35.0 mm (1.378 in)
Set Force (Valve Closed):	
IN.	7.3 ~ 8.7 kg (16.1 ~ 19.2 lb)
EX.	11.0 ~ 13.0 kg (24.3 ~ 28.7 lb)
Tilt Limit *	
IN.	2.5°/1.7 mm (0.067 in)
EX.	2.5°/1.7 mm (0.067 in)
	
Direction of Winding (Top View):	
IN.	Right
EX.	Right

Item \ Model	FZ750S
Piston:	
Piston Clearance	0.06 ~ 0.08 mm (0.00236 ~ 0.00315 in)
<Limit>	0.10 mm (0.0039 in)
Piston Size "D"	67.925 ~ 67.940 mm (2.6742 ~ 2.6748 in)
Measuring Point "H"	5.0 mm (0.197 in)
	
Oversize 2nd	68.50 mm (2.677 in)
Oversize 4th	69.00 mm (2.717 in)
Piston Ring:	
Top Ring:	
Type	Barrel
Dimensions (B x T)	1.0 x 2.6 mm (0.0394 x 0.1024 in)
End Gap (Installed)	0.30 ~ 0.45 mm (0.0118 ~ 0.0177 in)
Side Clearance (Installed)	0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in)
	
2nd Ring:	
Type	Plain (Taper face)
Dimensions (B x T)	1.2 x 2.7 mm (0.0472 x 0.1063 in)
End Gap (Installed)	0.20 ~ 0.35 mm (0.0079 ~ 0.0138 in)
Side Clearance (Installed)	0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in)
	
Oil Ring:	
Dimensions (B x T)	2.0 x 2.5 mm (0.0787 x 0.0984 in)
End Gap (Installed)	0.2 ~ 0.7 mm (0.0079 ~ 0.0276 in)
	
Connecting Rod:	
Oil Clearance	0.032 ~ 0.056 mm (0.00126 ~ 0.00220 in)
Bearing Color Code	1. Blue 2. Black 3. Brown 4. Green
Crankshaft:	
	
Crank Width "A"	55.7 ~ 59.5 mm (2.1929 ~ 2.3425 in)
Assembly Width "B"	339.8 ~ 340.2 mm(13.378 ~ 13.394 in)
<Runout Limit> "C"	0.03 mm (0.0012 in)
Big End Side Clearance "D"	0.160 ~ 0.262 mm (0.0063 ~ 0.0103 in)
Journal Oil Clearance	0.020 ~ 0.044 mm (0.0008 ~ 0.0017 in)
Bearing Color Code	1. Blue 2. Black 3. Brown 4. Green 5. Yellow

Item \ Model	FZ750S	
Clutch:		
Friction Plate Thickness	2.9 ~ 3.1 mm (0.1142 ~ 0.1220 in)	
Quantity	8 pcs.	
<Wear Limit>	2.8 mm (0.11 in)	
Clutch Plate Thickness	1.9 ~ 2.1 mm (0.0748 ~ 0.0827 in)	
Quantity	7 pcs.	
<Warp Limit>	0.1 mm (0.0039 in)	
Clutch Spring Free Height	55.5 mm (2.185 in)	
Quantity	6 pcs.	
Minimum Height	54.0 mm (2.126 in)	
Push Rod Bending Limit	0.3 mm (0.012 in)	
Clutch Release Method	Hydraulic inner push	
Transmission:		
Main Axle Deflection Limit	0.08 mm (0.0031 in)	
Drive Axle Deflection Limit	0.08 mm (0.0031 in)	
Shifter:		
Shifter Type	Guide Bar	
Guide Bar Bending Limit	0.1 mm (0.004 in)	
Carburetor:		
ID Mark	1ML00	1LJ00
Main Jet (M.J.)	#105	←
Main Air Jet (M.A.J.)	#65	←
Jet Needle (J.N.)	5CEZ02	←
Needle Jet (N.J.)	Y-0	←
Pilot Air Jet (P.A.J.)	#125	←
Pilot Jet (P.J.)	#15	←
Pilot Screw (P.S.)	3 (turns out)	←
Valve Seat Size (V.S.)	ϕ1.2	←
Starter Jet (G.S.1.)	#35	←
(G.S.2.)	ϕ0.4	←
Fuel Level (F.L.)	8.3 ± 1.0 mm (0.326 ± 0.04 in)	←
Engine Idling Speed	950 ~ 1,050 r/min	←
Vacuum Pressure at Idling Speed	Above 200 mmHg (7.87 inHg)	←
Vacuum Synchronous Difference	Below 10 mmHg (0.394 inHg)	←
Fuel Pump:		
Type	Electrical type	
Consumption Amperage (Max.)	1.0A	
Out-put Pressure	15.7 kPa (0.16 kg/cm^2, 2.28 psi)	
Lubrication System:		
Oil Filter Type	Paper type	
Oil Pump Type:	Trochoid type	
Tip clearance	0.09 ~ 0.15 mm (0.00354 ~ 0.00591 in)	
Side Clearance	0.03 ~ 0.08 mm (0.0012 ~ 0.0031 in)	
Bypass Valve Setting Pressure	176.5 ~ 215.8 kPa (1.8 ~ 2.2 kg/cm^2, 25.6 ~ 31.3 psi)	
Relief Valve Operating Pressure	382.5 ~ 460.9 kPa (3.9 ~ 4.7 kg/cm^2, 55.5 ~ 66.8 psi)	

Item \ Model	FZ750S
Cooling System:	
Radiator Core Size:	
Width	350 mm (13.78 in)
Height	185 mm (7.28 in)
Thickness	32 mm (1.26 in)
Radiator Cap Opening Pressure	74 ~ 103 kPa (0.75 ~ 1.05 kg/cm², 10.7 ~ 14.9 psi)
Reservoir Tank Capacity	0.29 L (0.26 Imp qt, 0.31 US qt)
<From Low to Full Level>	0.15 L (0.13 Imp qt, 0.16 US qt)
Water Pump:	
Type	Single-suction centrifugal pump
Reduction Ratio	91/48 x 41/43 (1.808)

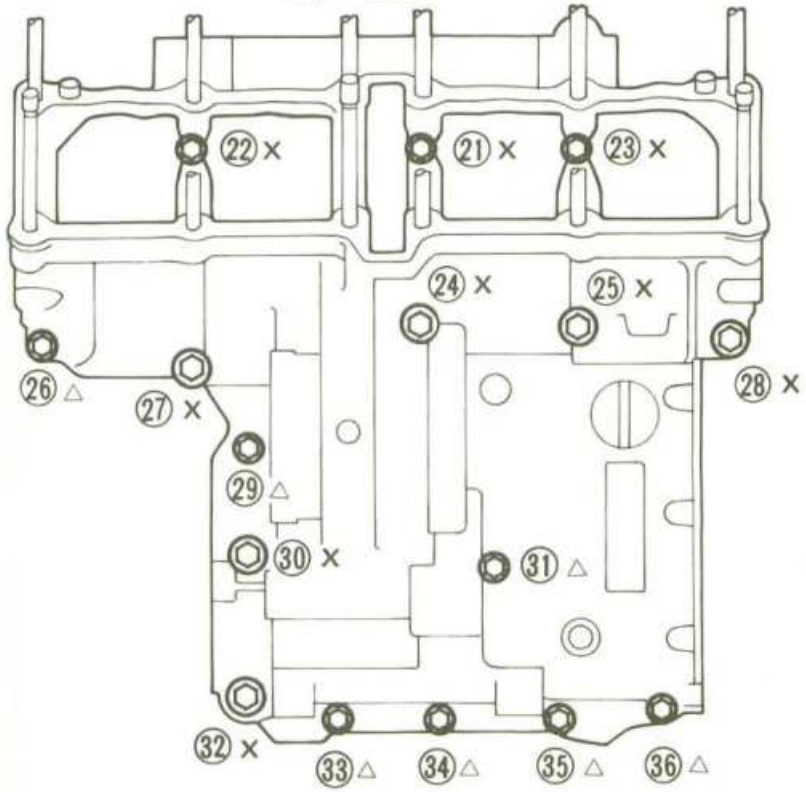
Lubrication Chart:



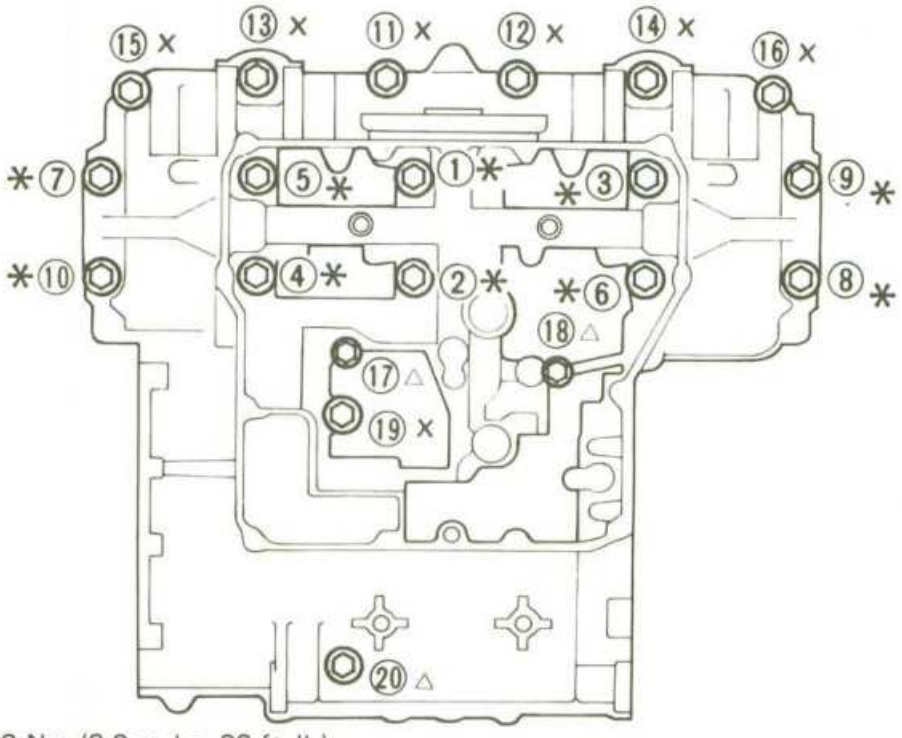
Item \ Model	FZ750S

Crankcase Tightening Sequence

Upper Case



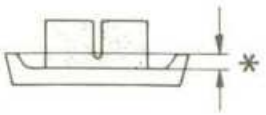
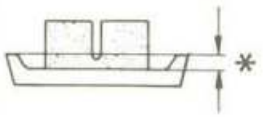
Lower Case



*: 9 mm Bolt: 32 Nm (3.2 m·kg, 23 ft·lb)
×: 8 mm Bolt: 24 Nm (2.4 m·kg, 17 ft·lb)
△: 6 mm Bolt: 12 Nm (1.2 m·kg, 8.7 ft·lb)

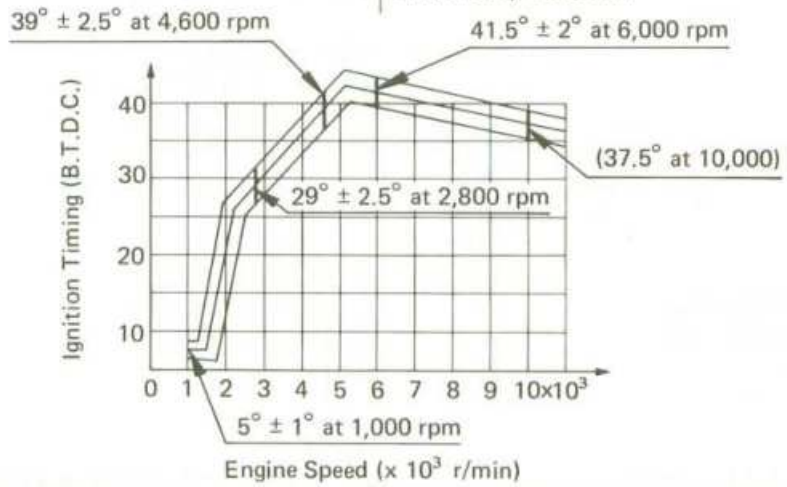
Chassis

Item \ Model	FZ750S
Steering System:	
Steering Bearing Type	Taper roller bearing
Front Suspension:	
Front Fork Travel	140 mm (5.51 in)
Front Spring Free Length	430 mm (16.93 in)
<Limit>	425 mm (16.73 in)
Collar Length	110 mm (4.33 in)
Spring Rate	
K1	4.12 N/mm (0.42 kg/mm, 23.52 lb/in)
K2	6.86 N/mm (0.7 kg/mm, 39.2 lb/in)
Stroke	
K1	0 ~ 100 mm (0 ~ 3.94 in)
K2	100 ~ 140 mm (3.94 ~ 5.51 in)
Optional Spring	No
Oil Capacity	408 cm^3 (14.4 Imp oz, 13.8 US oz)
Oil Grade	Yamaha fork oil 10wt or equivalent
Enclosed Air Pressure	
(Standard)	0 kPa (0 kg/cm^2, 0 psi)
(Maximum)	39 kPa (0.4 kg/cm^2, 5.7 psi)
Rear Suspension:	
Shock Absorber Travel	40 mm (1.57 in)
Spring Free-Length	174.5 mm (6.87 in)
<Limit>	170 mm (6.70 in)
Fitting Length	156.5 mm (6.16 in)
Spring Rate	166 N/mm (17.0 kg/mm, 952 lb/in)
Stroke	0 ~ 40 mm (0 ~ 1.57 in)
Optional Spring	No.
Enclosed Gas Pressure	1,177 kPa (12 kg/cm^2, 171 psi)
Rear Arm:	
Swingarm Free Play Limit: End	1 mm (0.04 in)
Swingarm Free Play Limit: Side	1 mm (0.04 in)
Front Wheel:	
Type	Cast wheel
Rim Size	MT2.75 x 16
Rim Material	Aluminum
Rim Runout Limit	
Radial	1.0 mm (0.04 in)
Lateral	0.5 mm (0.02 in)
Rear Wheel:	
Type	Cast wheel
Rim Size	MT3.00 x 18
Rim Material	Aluminum
Rim Runout Limit	
Radial	1.0 mm (0.04 in)
Lateral	0.5 mm (0.02 in)
Drive chain:	
Type/Manufacturer	50VA/DID
No. of Links	110 Links
Chain Slack	15 ~ 20 mm (0.6 ~ 0.8 in)

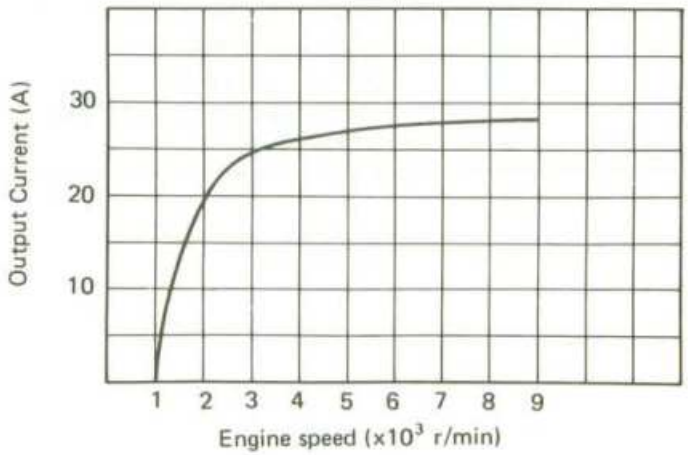
Item \ Model	FZ750S
Front Disc Brake:	
Type	Dual
Disc Outside Dia. x Thickness	267 x 7.5 mm (10.51 x 0.3 in)
Pad Thickness	
Inner	5.5 mm (0.217 in)
<Limit> *	0.5 mm (0.0197 in)
Pad Thickness	
Outer	5.5 mm (0.217 in)
<Limit> *	0.5 mm (0.0197 in)
	
Master Cylinder Inside Dia.	15.87 mm (0.63 in)
Caliper Cylinder Inside Dia.	45.4 mm (1.79 in)
Brake Fluid Type	DOT #3
Rear Disc Brake:	
Type	Single
Disc Outside Dia. x Thickness	267 x 8.5 mm (10.51 x 0.3 in)
Pad Thickness Inner	5.5 mm (0.217 in)
<Limit> *	0.5 mm (0.0197 in)
Pad Thickness Outer	5.5 mm (0.217 in)
<Limit> *	0.5 mm (0.0197 in)
	
Master Cylinder Inside Dia.	14.0 mm (0.55 in)
Caliper Cylinder Inside Dia.	42.8 mm (1.69 in)
Brake Fluid Type	DOT #3
Brake Lever and Brake Pedal:	
Brake Lever Free Play	2 ~ 5 mm (0.08 ~ 0.20 in)
Brake Pedal Position	35 mm (1.4 in) (Below the top of the footrest)
Brake Pedal Free Paly	13 ~ 15 mm (0.512 ~ 0.591 in)
Clutch:	
Master Cylinder Inside Dia.	15.87 mm (0.625 in)
Release Cylinder Inside Dia.	38.1 mm (1.5 in)
Clutch Lever Free Play	2 ~ 3 mm (0.08 ~ 0.12 in)
Clutch Fluid Type	DOT #3

Electrical

Item \ Model	FZ750S
Voltage:	12V
Ignition System:	
Ignition Timing (B.T.D.C.)	10° at 1,000 r/min
Advanced Timing (B.T.D.C.)	42° at 5,000 r/min
Advancer Type	Electrical, Vacuum



TCI:	
Pickup Coil Resistance (Color)	150Ω ± 10% at 20°C (68°F) (Orange – Black), (Orange, – Gray)
TCI Unit-Model/Manufacturer	TID14-39/HITACHI
Ignition Coil:	
Model/Manufacturer	CM12-27/HITACHI
Primary Winding Resistance	2.7Ω ± 10% at 20°C (68°F)
Secondary Winding Resistance	9.5 kΩ ± 20% at 20°C (68°F)
Spark Plug Cap:	
Type	Resin
Resistance	10kΩ
Charging System/Type:	AC generator
AC Generator:	
Model/Manufacturer	B3G/NIPPONDENSO
Nominal Output	12V, 25A at 5,000 r/min



Item \ Model	FZ750S
Generator Assembly:	
Stator Coil Resistance	0.2Ω ± 5MΩ at 20°C (68°F)
Field (rotor) Coil Resistance	4.0Ω ± 5% at 20°C (68°F)
Brush Overall Length	10.5 mm (0.41 in)
<Limit>	4.5 mm (0.18 in)
Spring Pressure	230 ~ 330 g (8.12 ~ 11.65 oz)
Voltage Regulator:	
Type	Field Control Type
No Load Regulated Voltage	13.5 ~ 15.3V
Battery:	
Capacity	12V, 14AH
Specific Gravity	1.280
Electrical Starter System:	
Type	Constant mesh type
Starter Motor:	
Model/Manufacturer	SM-8/MITSUBA
Output	0.6 kW
Brush-Overall Length	12.5 mm (0.49 in)
<Limit>	5.5 mm (0.22 in)
Spring Pressure	680 ~ 920 g (23.98 ~ 32.48 oz)
Commutator Dia.	28 mm (1.1 in)
<Wear Limit>	27 mm (1.06 in)
Mica Undercut	0.5 mm (0.02 in)
Starter Switch:	
Model/Manufacturer	A104-128/HITACHI
Amperage Rating	100A
Coil Winding Resistance	4.3Ω ± 10% at 20°C (68°F)
Horn:	
Type x Quantity	Plain type x 1
Model/Manufacturer	CFH-12/NIKKO
Maximum Amperage	2.5A
Relay Assembly:	
Type	Semi-transistor type
Model/Manufacturer	FX257N/NIPPONDENSO
Self Cancelling Device	Yes.
Flasher Frequency	75 ~ 95 cycle/min
Wattage	27W x 2 + 3.4W
Self Cancelling Unit:	
Model/Manufacturer	FX257/NIPPONDENSO
Oil Level Switch:	
Model/Manufacturer	4H7-00/NIPPONDENSO
Fuel Pump Controller:	
Model/Manufacturer	G8D-19Y/OMRON
Thermostatic Switch:	
Model/Manufacturer	47X/NIPPON THERMOSTAT
Thermostatic Sensor:	
Model/Manufacturer	11H/NIPPON SEIKI

Item \ Model	FZ750S
Fuel Gauge:	
Model/Manufacturer	1AE/NIPPON SEIKI
Sender Unit Resistance	
(Color)	(Green – Black)
Full	3Ω ± 2Ω at 20°C (68°F)
Empty	110Ω ± 7Ω at 20°C (68°F)
Circuit Breaker:	
Type	Fuse
Amperage for Individual Circuit x Quantity	
MAIN	30A x 1
HEAD	15A x 1
SIGNAL	10A x 1
IGNITION	10A x 1
FAN	10A x 1
RESERVE	30A x 1
	15A x 1
	10A x 1