

IT175K

1983 SERVICE DATA

MODEL - IBM I.D. NUMBER	IT175K	5X8
Initial Engine Number / Frame Number	5X8-050101 / 5X8-050101	
Fuel Type/Total Fuel Tank Capacity/Reserve Cap.	Premium / 11 Lit. / 1.5 Lit.	

ENGINE TYPE	2-Stroke, Reed Valve
Bore/Stroke/Number Cylinders/Displacement	66mm / 50mm / 1 / 171cc
Compression Ratio/Compression Pressure Min~Max	7.7:1 / NA
Piston Skirt Clearance New / Max	0.050 ~ 0.055mm / 0.10mm
Ring End Gap Top / 2nd / 3rd	0.20 ~ 0.35mm / 0.20 ~ 0.35mm / \emptyset
Valve Clearance (Cold) Intake / Exhaust	\emptyset
Oiling System	Premix 16:1 Using Yamalube R*
Capacity: Dry	\emptyset
Oil and Filter Change	\emptyset
Oil Change Only	\emptyset
Lubricant: Temp. Above 5°C (40°F)	Yamalube R*
Temp. Below 15°C (60°F)	Yamalube R*
Cooling System / Capacity	Air / \emptyset
Coolant Type / Mixing Ratio	\emptyset / \emptyset

AUTOLUBE - Min Stroke / Color Code	\emptyset
Minimum Output @ 200 Cycles	\emptyset
Maximum Output @ 200 Cycles	\emptyset

CARBURETOR - Manufacturer / Type / I.D. Number	Mikuni / VM34SS / 5X8-10
Main Jet / Pilot Jet / Pilot Screw (Turns Out)	310 / 70 / 1
Needle Jet / Jet Needle-Clip Position	P-4 / 6F21-4
Slide Cutaway	2.0
Float Level / Fuel Level	23.5 \pm 1.0mm / \emptyset
Idle rpm	Rider's Preference
Max CO [®] / Max HC [®] / Set CO	\emptyset

SUSPENSION	
Front: Inner Tube Diameter	\emptyset
Oil Type / Level / Qty	10 Wt. Fork Oil* / 169mm / 440cc
Gas Pressure Min ~ Max / Standard	0 ~ 1.2 kg/cm ² / 0 kg/cm ²
Spring Length Std	533.5mm
Rear: Gas Pressure Min ~ Max / Standard	14.5 ~ 15.5 kg/cm ² / 15 kg/cm ²
Minimum Brake Lining Thickness Front / Rear	2.0mm / 2.0mm
Tire Size (Nominal Pressure) Front / Rear	3.00-21 (Variable) / 110/90-18 (Variable)

TRANSMISSION - Oil Type / Qty Change / Qty Dry	SAE 10W30 SE or SF / 600cc / 700cc
Secondary Drive Type / Teeth / Chain	Chain / 44-12 / DK520DS104L
Middle Gear Case Capacity	\emptyset
Final Gear Case Capacity	\emptyset
Gear Case Lubricant	\emptyset

SERVICE COPY	SER MGR	MECH	MECH	MECH	BINDER
OFFICE COPY	GEN MGR	SALES	PARTS	BINDER	PAGE 1 OF 2

CHARGING SYSTEM	∅
Battery: Model / Specific Gravity / Charge Rate	∅
Maximum Output	∅
Field Coil Color Code / Ω	∅
Stator Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅

IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	2.4mm
Spark Plug Type	Champion N-86
Spark Plug Gap / Torque / Cap Ω	0.5 ~ 0.6mm / 2.5 m-kG / ∅
Point Gap / Condenser Capacitance	∅
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0Ω ± 15% / 5.9KΩ ± 15%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 420Ω ± 10% Red ~ Blk / 13.6Ω ± 10%

LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5W / ∅
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48Ω ± 10%

TORQUE VALUES	
Front Axle Nut	M14: 6.0 m-kG
Front Axle Holder Nut	M6: 1.0 m-kG
Rear Axle Nut	M14: 8.5 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	M14: 8.0 m-kG
Drain Plug	M14: 2.0 m-kG
Flywheel Nut	M12: 8.0 m-kG
Cylinder Head Cover	∅
Cylinder Head:	M8: 2.5 m-kG
Engine Mounting Bolts: Engine Front	M8: 3.0 m-kG
Engine Center	M8: 3.0 m-kG
Swingarm Pivot	M16: 8.5 m-kG

∅ = Does Not Apply To This Model
 NA = Information Not Available

* Available From Yamaha Parts Distributors Inc.
 * For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's/Service Manual Assembly Manual	LIT-11626-03-74 LIT-11666-03-74	Supp. to YZ / IT Basic Assembly Manual (03-31)