

IT175J

1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	IT175J	5X8
Initial Engine Number / Frame Number	5X8-000101 / 5X8-000101	
Basic Color(s)	Blue	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 11 Lit. / 1.5 Lit.	
Dry Vehicle Weight	96 kg	
ENGINE TYPE	2-Stroke, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	66mm / 50mm / 1 / 171cc	
Compression Ratio/Compression Pressure Min~Max	7.7:1 / \emptyset	
Piston Skirt Clearance New / Max	0.050 ~ 0.055mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.2 ~ 0.35mm / 0.2 ~ 0.35mm / \emptyset	
Valve Clearance (Cold) Intake / Exhaust	\emptyset / \emptyset	
Oil Pressure Hot / rpm	\emptyset	
Oiling System	Premix 16:1 Using Yamalube R*	
Capacity: Dry	\emptyset	
Oil and Filter Change	\emptyset	
Oil Change	\emptyset	
Lubricant: Temp. Above 5°C (40°F)	Yamalube R*	
Temp. Below 15°C (60°F)	Yamalube R*	
Cooling System / Capacity	Air / \emptyset	
Coolant / Mixing Ratio	\emptyset / \emptyset	
AUTOLUBE - Min Stroke / Color Code	\emptyset	
Minimum Output @ 200 Cycles	\emptyset	
Maximum Output @ 200 Cycles	\emptyset	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM34SS / 5X8-10	
Main Jet / Pilot Jet	310 / 70	
Needle Jet / Jet Needle-Clip Position	P-4 / 6F21-4	
Slide Cutaway or Throttle Valve	2.0	
Float Level / Fuel Level	23.5 ± 1.0mm / NA	
Idle rpm	1500 rpm	
Max CO* / Max HC* / Set CO	\emptyset	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / 169mm / 440cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std	533.5mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	15 kg/cm ²	
Minimum Brake Lining Thickness	Front: 2.0mm Rear: 2.0mm	
Tire Size (Nominal Pressure)	F:3.00-21 (Pressure Opt.) R:110/90-18 (Pressure Opt.)	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 600cc / 700cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 52-17 / 3.058	
Secondary Drive Type / Teeth / Chain	Chain Drive / 44-12 / DK520DS-104L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	36mm ~ 35mm	
Middle Gear Case Capacity	\emptyset	
Final Gear Case Capacity	\emptyset	
Gear Case Lubricant: Temp. Above 5°C (40°F)	\emptyset	
Temp. Below 15°C (60°F)	\emptyset	
All Weather Conditions	\emptyset	

CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Specific Gravity / Charge Rate	∅
Maximum Output	∅
TROUBLESHOOTING	
Field Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅
IGNITION SYSTEM	Capacitor-Discharge Ignition
Ignition Timing	2.4mm BTDC
Spark Plug Type	Champion N-86
Spark Plug Gap / Torque / Cap Ω	0.5 ~ 0.6mm / 2.5 m-kG / ∅
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 15% / 5.9K Ω ± 15%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 420 Ω ± 10% Red ~ Blk / 13.6 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5W / ∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48 Ω ± 10%
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 6.0 m-kG
Front Axle Holder Nut	6 x 1.0: 1.0 m-kG
Rear Axle Nut	14 x 1.5: 8.5 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	14 x 1.0: 8.0 m-kG (With Lock Washer)
Drain Plug	14 x 1.25: 2.0 m-kG
Cylinder Head Cover	∅
Cylinder Head:	Nut 8 x 1.25: 2.5 m-kG
	Stud 8 x 1.25: 2.4 m-kG
Engine Mounting Bolts: Engine Front	8 x 1.5: 3.0 m-kG
Engine Center	8 x 1.5: 3.0 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-11626-03-13 LIT-11666-03-13	Supp. to YZ / IT Basic Assembly Manual (03-31)