

IT175H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	IT175H	3R6
Initial Engine Number / Frame Number	3R6-020101 / 3R6-020101	
Basic Color(s)	White	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 11 Lit. (2.9 Gal.) / ∅	
Dry Vehicle Weight	94 kg (207 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	68mm / 50mm / 1 / 171cc	
Compression Ratio/Compression Pressure Min~Max	7.9: 1 / ∅	
Piston Skirt Clearance New / Max	0.050 ~ 0.055mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.2 ~ 0.4mm / 0.2 ~ 0.4mm / ∅	
Valve Clearance (Cold) Intake / Exhaust	∅ / ∅	
Oil Pressure Hot / rpm	∅	
Oiling System	Premix 16:1 Using Yamalube R*	
Capacity: Dry	∅	
Oil and Filter Change	∅	
Oil Change	∅	
Lubricant: Temp. Above 5°C (40°F)	Yamalube R*	
Temp. Below 15°C (60°F)	Yamalube R*	
AUTOLUBE - Min Stroke / Color Code	∅	
Minimum Output @ 200 Cycles	∅	
Maximum Output @ 200 Cycles	∅	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM34SS / 3R6-00	
Main Jet / Pilot Jet	210 / 60	
Needle Jet / Jet Needle-Clip Position	P-8 / 6F21-4	
Slide Cutaway or Throttle Valve	2.0	
Float Level / Fuel Level	NA / NA	
Idle rpm	∅	
Max CO* / Max HC* / Set CO	∅	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / ∅ / 317cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std	607.5mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	15 kg/cm ² (213.4 psi)	
Minimum Brake Lining Thickness	Front: 2.0mm Rear: 2.0mm	
Tire Size (Nominal Pressure)	F: 3.00-21 (Pressure Opt.) R: 4.10-18 (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-100L	
Clutch Friction Plate Thickness Std ~ Min	1.2 ~ 1.0mm	
Clutch Spring Length Std ~ Min	36mm ~ 35mm	
Middle Gear Case Capacity	∅	
Final Gear Case Capacity	∅	
Gear Case Lubricant: Temp. Above 5°C (40°F)	∅	
Temp. Below 15°C (60°F)	∅	
All Weather Conditions	∅	

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	2.6mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.7mm / 2.5 m-kg / ∅
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Bm ~ Blk / 420 Ω ± 10% Red ~ Blk / 13.8 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: 8.5 m-kg
Front Axle Holder Nut	8 x 1.25: 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: 5.0 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.
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