

DT175H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	DT175H 3J1
Initial Engine Number / Frame Number	3J1-060101 / 3J1-060101
Basic Color(s)	Chappy Red
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 6.8 Lit. (1.8 Gal.) / 0.9 Lit. (0.2 Gal.)
Dry Vehicle Weight	98 kg (216 lbs.)
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve
Bore/Stroke/Number Cylinders/Displacement (cc)	66mm / 50mm / 1 / 171cc
Compression Ratio/Compression Pressure Min~Max	10.1:1 (6.8:1 Corrected) / $\emptyset$
Piston Skirt Clearance New / Max	0.040 ~ 0.045mm / 0.1mm
Ring End Gap Top / 2nd / 3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / $\emptyset$
Valve Clearance (Cold) Intake / Exhaust	$\emptyset$
Oil Pressure Hot / rpm	$\emptyset$
Oiling System	Autolube
Capacity: Dry	0.9 Lit. (0.9 Qt.)
Oil and Filter Change	$\emptyset$
Oil Change	$\emptyset$
Lubricant: Temp. Above 5°C (40°F)	Yamalube 2* or Equivalent
Temp. Below 15°C (60°F)	Yamalube 2* or Equivalent
AUTOLUBE - Min Stroke / Color Code	0.20 ~ 0.25mm / Gray
Minimum Output @ 200 Cycles	0.50cc
Maximum Output @ 200 Cycles	5.13cc
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM24SS / 3J1-00
Main Jet / Pilot Jet	150 / 22.5
Needle Jet / Jet Needle-Clip Position	N-4 / 5GL13 Fixed
Slide Cutaway or Throttle Valve	2.0
Float Level / Fuel Level	21.0 $\pm$ 0.5mm / NA
Idle rpm	1350 ~ 1500 rpm
Max CO* / Max HC* / Set CO	$\emptyset$
SUSPENSION	
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / $\emptyset$ / 186cc
Gas Pressure	$\emptyset$
Spring Length Std	546.5mm
Monoshock: Oil Type / Qty	Not Rebuildable
Gas Pressure	15 kg/cm ² (213 psi)
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm
Tire Size (Nominal Pressure)	F:2.75-21 (1.7 kg/cm ² /24 psi) R:3.50-18 (2.0 kg/cm ² /28 psi)
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	Yamalube 4* or SAE 10W30 SE / 650cc / 750cc
Primary Drive Type / Teeth / Ratio	Helical Gear / 71-22 / 3.227
Secondary Drive Type / Teeth / Chain	Chain / 49-16 / DID428HM-118L
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.8mm
Clutch Spring Length Std ~ Min	33.0 ~ 32.0mm
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 / Single Phase / Half Wave
Battery: Model / Specific Gravity / Charge Rate	GS 6N6-3B-1 (6V 6AH) / 1.26 / 0.6A
Maximum Output	8.7V 2.5A @ 8000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	$\emptyset$
Charge Coil Color Code / Ω	Grn-Wht ~ Blk / $0.30 \Omega \pm 10\%$
IGNITION SYSTEM	Capacitor-Discharge Ignition
Ignition Timing	17.5° BTDC @ 3000 rpm (1.45mm BTDC)
Spark Plug Type	NGK B9ES
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 2.5 m-kG / $5K \Omega \pm 10\%$
Point Gap / Condenser Capacitance	$\emptyset$ / $\emptyset$
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / $1.0 \Omega \pm 10\%$ / $5.9K \Omega \pm 20\%$
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / $10 \Omega \pm 10\%$
Source Coil Color Code / Ω	Brn ~ Blk / $300 \Omega \pm 10\%$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V35-35W / 6V25-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel ~ Blk / $0.18 \Omega \pm 10\%$
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 3.7 m-kG
Front Axle Holder Nut	$\emptyset$
Rear Axle Nut	14 x 1.5: 8.5 m-kG
Rear Axle Pinch Bolt	$\emptyset$
Clutch Nut	14 x 1.0: 5.5 m-kG
Drain Plug	12 x 1.5: 2.0 m-kG
Cylinder Head Cover	$\emptyset$
Cylinder Head:	8 x 1.25: 2.5 m-kG
Engine Mounting Bolts: Front	8 x 1.25: 2.5 m-kG
Rear, Upper	8 x 1.25: 2.5 m-kG
Rear, Lower	10 x 1.25: 3.7 m-kG

$\emptyset$ = Does Not Apply To This Model

NA = Information Not Available

*Available From Yamaha Parts Distributors Inc.

*For Diagnostic Use Only