

# IT425G

## 1980 SERVICE DATA

<b>MODEL – IBM I.D. NUMBER</b>	IT425G	3R8
Initial Engine Number/Frame Number	3R8-000101 / 3R8-000101	
Basic Color(s)	Sky Blue	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 12 Lit. (3.2 Gal.) / $\phi$	
Dry Vehicle Weight	111 Kg (245 lbs.)	
<b>ENGINE TYPE</b>	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	85mm / 75mm / 1 / 425cc	
Compression Ratio/Compression Pressure min~max	7.4:1 / N/A	
Piston Skirt Clearance new/max.	0.055 ~ 0.060mm / 0.1mm	
Ring End Gap Top/2nd/3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / $\phi$	
Valve Clearance (cold) Intake/Exhaust	$\phi$	
Oil Pressure Hot/rpm	$\phi$	
Oiling System	Premix (32:1 with Yamalube R)	
Capacity: Dry	$\phi$	
Oil and Filter Change	$\phi$	
Oil Change	$\phi$	
Lubricant: Temp above 5°C (40°F)	Yamalube R*	
Below 15°C (60°F)	Yamalube R*	
<b>AUTOLUBE – Min. Stroke/Color Code</b>	$\phi$	
Minimum Output @ 200 cycles	$\phi$	
Maximum Output @ 200 cycles	$\phi$	
<b>CARBURETOR – Mfr./Type/I.D. Number</b>	Mikuni / VM38SS / 3R800	
Main Jet/Pilot Jet	410 / 60	
Needle Jet/Jet Needle-Clip Position	P-8 / 6F16-3	
Slide Cutaway or Throttle Valve	4.0	
Float Level	18.1 ± 1mm	
Idle rpm	$\phi$	
CO % @ Idle (Diagnostic Use Only)	$\phi$	
<b>SUSPENSION</b>		
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil* / $\phi$ / 326cc	
Gas Pressure	$\phi$	
Spring Length Std.	593.5mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	15 kg/cm <sup>2</sup> (213 psi)	
Minimum Brake Lining Thickness	Front: 2mm      Rear: 2mm	
Tire Size (Nominal Pressure)	F: 3.00-21 (psi - Optional) R: 5.10-18 (psi - Optional)	
<b>TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble</b>	SAE 10W30 SE / 800cc / 850cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 60-23 / 2.608	
Secondary Drive Type/Teeth/Chain	Chain / 46-14 / DK520DS-102L	
Clutch Friction Plate Thickness Std ~ Min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min.	36.0 ~ 35.0mm	
Middle Gear Case Capacity	$\phi$	
Final Gear Case Capacity	$\phi$	
Gear Case Lubricant: Temp above 5°C (40°F)	$\phi$	
Temp below 15°C (60°F)	$\phi$	
All Weather Conditions	$\phi$	



<b>CHARGING SYSTEM</b>	Flywheel Magneto
Battery: Model / Spec. Grav. / Chg. Rate	ϕ
Maximum Output	ϕ
<b>TROUBLESHOOTING</b>	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	ϕ
<b>IGNITION SYSTEM</b>	Capacitor Discharge Ignition
Ignition Timing	3.1mm BTDC
Spark Plug Type	Champion N-3G
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.2 m·kg / ϕ
Point Gap / Condenser Capacitance	ϕ / ϕ
<b>TROUBLESHOOTING</b>	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Blk / 4.0 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 240 Ω ± 10%
<b>LIGHTING SYSTEM</b>	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5.3W / ϕ
<b>TROUBLESHOOTING</b>	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 240 Ω ± 10%
<b>TORQUE VALUES</b>	
Front Axle Nut	15 x 1.5: 5.8 m·kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	16 x 1.5: 7.8 m·kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	20 x 1.0: 7.5 m·kg (Use Lock Washer)
Drain Plug	14 x 1.25: 2.0 m·kg
Cylinder Head Cover	ϕ
Cylinder Head:	8 x 1.25: 2.5 m·kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 2.4 m·kg
Front, Lower	8 x 1.25: 2.4 m·kg
Rear, Upper	8 x 1.25: 2.4 m·kg
Rear, Lower	8 x 1.25: 2.4 m·kg

ϕ Does Not Apply to This Model

\* Available From Yamaha Parts Distributors, Inc.