

YZ490J

1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	YZ490J	5X6
Initial Engine Number / Frame Number	5X6-000101 / 5X6-000101	
Basic Color(s)	Competition Yellow	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 10.0 Lit. / \emptyset	
Dry Vehicle Weight	106 kg	
ENGINE TYPE	2-Stroke, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	87mm / 82mm / 1 / 487cc	
Compression Ratio/Compression Pressure Min~Max	7.0:1 / \emptyset	
Piston Skirt Clearance New / Max	0.080 ~ 0.085mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.35 ~ 0.50mm / 0.35 ~ 0.50mm / \emptyset	
Valve Clearance (Cold) Intake / Exhaust	\emptyset	
Oil Pressure Hot / rpm	\emptyset	
Oiling System	Premix 24:1 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 / VM38SS / 5X6-00	
Main Jet / Pilot Jet	440 / 50	
Needle Jet / Jet Needle-Clip Position	Q-8 / 6F16-3	
Slide Cutaway or Throttle Valve	3.0	
Float Level / Fuel Level	27 ± 1.0mm / NA	
Idle rpm	\emptyset	
Max CO* / Max HC* / Set CO	\emptyset	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / 150mm With Forks Compressed / \emptyset	
Gas Pressure	0 kg/cm ²	
Spring Length Std	586mm	
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 (1.0 kg/cm ²) R:140/90-18 (1.0 kg/cm ²)	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 750cc / 800cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 63-24 / 2.625	
Secondary Drive Type / Teeth / Chain	Chain / 44-14 / DK520DS-110L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	36.0 ~ 35.0mm	
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
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	2.0mm BTDC
Spark Plug Type	Champion N-3
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 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	Lo: Brn~Blk / 420Ω ± 10% Hi: Red~Blk / 13.6Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	∅
TORQUE VALUES	
Front Axle Nut	14 x 1.50: 5.8 m-kG
Front Axle Holder Nut	8 x 1.25: 2.0 m-kG
Rear Axle Nut	18 x 1.50: 10 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	20 x 1.0: 7.5 m-kG
Drain Plug	12 x 1.25: 2.0 m-kG
Cylinder Head Cover	∅
Cylinder Head:	Nut 8 x 1.25: 2.5 m-kG Stud 12 x 1.25: 3.5 m-kG
Engine Mounting Bolts: Upper Engine	8 x 1.25: 3.0 m-kG
Upper Frame	8 x 1.25: 3.0 m-kG
Upper Engine	8 x 1.25: 3.0 m-kG
Upper Frame	8 x 1.25: 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-11626-03-14 LIT-11666-03-15	Combined YZ490J, Supp. to YZ/IT Basic Assembly Manual (03-31)