

YZ490K

1983 SERVICE DATA

MODEL - IBM I.D. NUMBER	YZ490K	23X
Initial Engine Number / Frame Number	23X-000101 / 23X-000101	
Fuel Type/Total Fuel Tank Capacity/Reserve Cap.	Premium / 10.5 Lit. / \emptyset	

ENGINE TYPE	2-Stroke, Reed Valve
Bore/Stroke/Number Cylinders/Displacement	87mm / 82mm / 1 / 487cc
Compression Ratio/Compression Pressure Min~Max	7.4:1 / \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
Oiling System	Premix 24:1 Using Yamalube R*
Capacity: Dry	\emptyset
Oil and Filter Change	\emptyset
Oil Change Only	\emptyset
Lubricant: Temp. Above 5°C (40°F)	Yamalube R*
Temp. Below 15°C (60°F)	Yamalube R*
Cooling System / Capacity	Air / \emptyset
Coolant Type / Mixing Ratio	\emptyset / \emptyset

AUTOLUBE - Min Stroke / Color Code	\emptyset
Minimum Output @ 200 Cycles	\emptyset
Maximum Output @ 200 Cycles	\emptyset

CARBURETOR - Manufacturer / Type / I.D. Number	Mikuni / VM38SS / 23X-01
Main Jet / Pilot Jet / Pilot Screw (Turns Out)	440 / 50 / 1-3/4
Needle Jet / Jet Needle-Clip Position	Q-8 / 6F16-4
Slide Cutaway	3.0
Float Level / Fuel Level	27 ± 1mm / \emptyset
Idle rpm	\emptyset
Max CO* / Max HC* / Set CO	\emptyset

SUSPENSION	
Front: Inner Tube Diameter	43mm
Oil Type / Level / Qty	10 Wt. Fork Oil* / 170mm / 578cc
Gas Pressure Min ~ Max / Standard	0 kg/cm ²
Spring Length Std	589mm
Rear: Gas Pressure Min ~ Max / Standard	7 ~ 10 kg/cm ² / 8 kg/cm ²
Minimum Brake Lining Thickness Front / Rear	2mm / 2mm
Tire Size (Nominal Pressure) Front / Rear	100/80-21 (1.0 kg/cm ²) / 150/80-18 (1.0 kg/cm ²)

TRANSMISSION - Oil Type / Qty Change / Qty Dry	SAE 10W30 SE or SF / 750cc / 800cc
Secondary Drive Type / Teeth / Chain	Chain / 46-14 / DK520DS-112L
Middle Gear Case Capacity	\emptyset
Final Gear Case Capacity	\emptyset
Gear Case Lubricant	\emptyset

SERVICE COPY	SER MGR	MECH	MECH	MECH	BINDER
OFFICE COPY	GEN MGR	SALES	PARTS	BINDER	PAGE 1 OF 2

CHARGING SYSTEM	
Battery: Model / Specific Gravity / Charge Rate	∅
Maximum Output	∅
Field Coil Color Code / Ω	∅
Stator Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅

IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	1.9 ~ 2.1mm BTDC
Spark Plug Type	Champion N-86
Spark Plug Gap / Torque / Cap Ω	0.5 ~ 0.6mm / 1.8 m·kg / ∅
Point Gap / Condenser Capacitance	∅
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0Ω ± 15% / 5.9KΩ ± 15%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 310Ω ± 10%

LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	∅
Lighting Coil Color Code / Ω	∅

TORQUE VALUES	
Front Axle Nut	M10: 5.8 m·kg
Front Axle Holder Nut	M8: 2 m·kg
Rear Axle Nut	M18: 10 m·kg
Rear Axle Pinch Bolt	∅
Clutch Nut	M20: 7.5 m·kg
Drain Plug	M12: 2.0 m·kg
Flywheel Nut	M12: 8.5 m·kg
Cylinder Head Cover	∅
Cylinder Head:	Nut M8: 1.5 m·kg
	Stud M12: 3.5 m·kg
Engine Mounting Bolts:	M8: 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-11626-03-75 LIT-11666-03-75	Supp. to YZ/IT Basic Assembly Manual (03-31)