TECHNICAL BULLETIN

IT425G
1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	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.) / ϕ
Dry Vehicle Weight	111 Kg (245 lbs.)
ENGINE TYPE	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.	0.065 ~ 0.080mm / 0.1mm
Ring End Gap Top/2nd/3rd	0.3 ~ 0.8mm / 0.3 ~ 0.8mm / ϕ
Valve Clearance (cold) Intake/Exhaust	ϕ
Oil Pressure Relief	ϕ
Oiling System	Premix (32:1 with Yamalube R)
Capacity: Dry	ϕ
Oil and Filter Change	ϕ
Oil Change	ϕ
Lubricant: Temp above 5°C (40°F)	Yamalube R*
Below 15°C (60°F)	Yamalube R*
AUTOLUBE – Min. Stroke/Color Code	ϕ
Minimum Output @ 200 cycles	ϕ
Maximum Output @ 200 cycles	ϕ
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM28SS / 3R800
Main Jet/Pilot Jet	#10 / 60
Needle Jet/Jet Needle-Clip Position	P-8 / 6F16-3
Slide Cutaway or Throttle Valve	#.0
Float Level	18.1 ± 1mm
Idle rpm	ϕ
CO % @ Idle (Diagnostic Use Only)	ϕ
SUSPENSION	
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil* / ϕ / 329cc
Gas Pressure	ϕ
Spring Length Std.	593.5mm
Monoshock: Oil Type/Qty.	Non Refurbishable
Gas Pressure	15 kg/cm² (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)
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 800cc / 850cc
Primary Drive Type/Teeth/Ratio	Helical Gear / 80-33 / 2.909
Secondary Drive Type/Teeth/Chain	Chain / 48-14 / 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	ϕ
Final Gear Case Capacity	ϕ
Gear Case Lubricant: Temp above 5°C (40°F)	ϕ
Temp below 15°C (60°F)	ϕ
All Weather Conditions	ϕ

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CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Spec. Grav. / Chg. Rate	ϕ
Maximum Output	ϕ
TROUBLESHOOTING:	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	ϕ
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	3.1mm @TDC
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
TROUBLESHOOTING:	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 8.9K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Blk / 4.5 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 240 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5.3W / ϕ
TROUBLESHOOTING:	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 240 Ω ± 10%
TORQUE VALUES	
Front Axle Nut	16 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	30 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.

TECHNICAL BULLETIN

This Bulletin replaces M79-074.
Please remove and destroy Bulletin M79-074.

YZ465G
1980 SERVICE DATA

Δ Denotes a change from the original bulletin.

MODEL - 1980 I.D. NUMBER	YZ465G 3H9
Initial Engine Number / Frame Number	3H9-000101 / 3H9-000101
Basic Color(s)	Competition Yellow
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 9.0 Lit. (2.3 Gal.) / #
Dry Vehicle Weight	102 kg (225 lbs.)
ENGINE TYPE	2 Stroke, Air Cooled, Reed Valve
Bore/Stroke/Number Cylinders/Displacement (cc)	85mm / 82mm / 1 / 465cc
Compression Ratio/Compression Pressure Min=Max	7.0: 1 / #
Piston Skirt Clearance New/Max	0.060 ~ 0.090mm / 0.1mm
Ring End Gap Top / 2nd / 3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / #
Valve Clearance (Cold) Intake/Exhaust	#
Oil Pressure Hot / rpm	#
Oiling System	Friends (50:1 for Yamalube R*)
Capacity: Dry	#
Oil and Filter Change	#
Oil Change	#
Lubricant: Temp. above 5°C (40°F)	Yamalube R*
Below 15°C (60°F)	Yamalube R*
AUTOLUBE - Min. Stroke / Color Code	#
Minimum Output @ 300 Cycles	#
Maximum Output @ 300 Cycles	#
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM28SS / 3H9-00
Main Jet / Pilot Jet	390 / 90
Needle Jet / Jet Needle Clip Position	P-6 / 6F16-3
Slide Cutaway or Throttle Valve	3.0
Float Level	27 ± 1.0mm
Idle rpm	#
CO % @ Idle (Diagnostic Use Only)	#
SUSPENSION	
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / # / 387cc
Gas Pressure	0 kg/cm²
Spring Length Std.	608mm
Monoshock: Oil Type / Qty	Not Rebuildable
Gas Pressure	15 kg/cm² (213 psi)
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm
Tire Size (Nominal Pressure)	F-3.00-21 (psi - Opt.) R-5.10-18 (psi - Opt.)
TRANSMISSION - Oil Type/Qty Chg/Qty Reservoir	SAE 10W30 SE / 750cc / 800cc
Primary Drive Type / Teeth / Ratio	Helical Gear / 83-34 / 2.926
Secondary Drive Type / Teeth / Chain	Chain Drive / 46-14 / DID520DS-108L
Clutch Friction Plate Thickness Std ~ Min.	3.0 ~ 2.7mm
Clutch Spring Length Std ~ Min.	36.0 ~ 35.0mm
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	#

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CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Spec. Grav. / Chg. Rate	ø
Maximum Output	ø
TROUBLESHOOTING	
Field Coil Color Code / Ω	ø
Charge Coil Color Code / Ω	ø
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 / 2.2 m-kg / ø
Point Gap / Condenser Capacitance	ø / ø
TROUBLESHOOTING	
Ignition Coil Test Gap/Primary Ω/Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulser Coil or Pick-up Coil Color Code / Ω △	Wht-Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Lter Blu ~ Blk / 425 Ω ± 10% High Red ~ Blk / 318 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	ø
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	ø
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 5.8 m-kg
Front Axle Holder Nut	8 x 1.25: 2.0 m-kg
Rear Axle Nut	16 x 1.5: 7.8 m-kg
Rear Axle Pinch Bolt	ø
Clutch Nut	20 x 1.0: 7.6 m-kg Use Lock Washer
Drain Plug	14 x 1.25: 2.5 m-kg
Cylinder Head Cover	ø
Cylinder Head	10 x 1.25: 3.3 m-kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 3.0 m-kg
Front, Lower	8 x 1.25: 3.0 m-kg
Rear	10 x 1.25: 6.4 m-kg
Front Stay	8 x 1.25: 1.8 m-kg
Rear Stay	8 x 1.25: 1.8 m-kg

ø Does Not Apply To This Model
N/A Information Not Available

* Available From Yamaha Parts Distributors, Inc.

TECHNICAL BULLETIN

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IT465H

1981 SERVICE DATA

This bulletin replaces M80-097.

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MODEL / IBM I.D. NUMBER	IT465H 4V9
Initial Engine Number / Frame Number	4V9-000101 / 4V9-000101
Basic Colorist	White
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 13 Lit. (3.4 Gal.) / #
Dry Vehicle Weight ▲	110 kg (248 lb)
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve
Bore / Stroke / Number Cylinders / Displacement (cc)	68mm / 62mm / 1 / 465cc
Compression Ratio / Compression Pressure Min—Max	7.1:1 / NA
Piston Skirt Clearance New / Max	0.070 ~ 0.075mm / 0.1mm
Ring End Gap Top / 2nd / 3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / #
Valve Clearance (Cold) Intake / Exhaust	#
Oil Pressure Hot / rpm	#
Oiling System	Premix 16:1 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 / VM38SS / 4V9-00
Main Jet / Pilot Jet	380 / 35
Needle Jet / Jet Needle Clip Position ▲	P-6 / 6F35-3
Slide Cutaway or Throttle Valve ▲	2.0
Float Level / Fuel Level	27.5mm / 33.0 ± 1.5mm
Idle rpm	#
Max CO* / Max HC* / Set CO	#
SUSPENSION	
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / # / 415cc
Gas Pressure	0 kg/cm²
Spring Length Std	603mm
Monoshock: Oil Type / Qty	Non Rebuildable
Gas Pressure	18 kg/cm² (256 psi)
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm
Tire Size (Nominal Pressure)	F:3.00-21 (psi Optional) R:5.80-17 (psi Optional)
TRANSMISSION - Oil Type/ Qty Chg/ Qty Reassemble	SAE 10W30 SE / 600cc / 750cc
Primary Drive Type / Teeth / Ratio	Helical Gear / 63-24 / 2.625
Secondary Drive Type / Teeth / Chain	Chain / 44-14 / DK530DS-108L
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm
Clutch Spring Length Std ~ Min	36.0 ~ 35.0mm
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	#

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

CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Specific Gravity / Charge Rate	ø
Maximum Output	ø
TROUBLESHOOTING	
Field Coil Color Code / Ω	ø
Charge Coil Color Code / Ω	ø
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	2.0mm BTDC
Spark Plug Type	Champion N-3G
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.2 m-kg / 0K Ω
Point Gap / Condenser Capacitance	ø / ø
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 15% / 5.9K Ω ± 15%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 630 Ω ± 20% / Red ~ Blk / 315 Ω ± 20%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Relay	6V25-25W / 6V5.3W / ø
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48 Ω ± 10%
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 5.8 m-kg
Front Axle Holder Nut	8 x 1.0: 1.0 m-kg
Rear Axle Nut	18 x 1.5: 7.8 m-kg
Rear Axle Pinch Bolt	ø
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	ø
Cylinder Head	8 x 1.25: 2.5 m-kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 3.0 m-kg
Front, Lower	8 x 1.25: 3.0 m-kg
Rear, Upper ▲	10 x 1.25: 5.3 m-kg

ø = Does Not Apply To This Model
NA = Information Not Available

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*For Diagnostic Use Only

IT465J
1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	IT465J 4V9
Initial Engine Number / Frame Number	4V9-010101 / 4V9-010101
Basic Color(s)	Sky Blue
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 13 Lit. / #
Dry Vehicle Weight	110 kg
ENGINE TYPE	2 Stroke, Air-Cooled, Reed Valve
Bore/Stroke/Number Cylinders/Displacement (cc)	85mm / 82mm / 1 / 465cc
Compression Ratio/Compression Pressure Min~Max	7.1:1 / NA
Piston Skirt Clearance New / Max	0.070 ~ 0.075mm / 0.1mm
Ring End Gap Top / 2nd / 3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / #
Valve Clearance (Cold) Intake / Exhaust	#
Oil Pressure Hot / rpm	#
Oiling System	Premix 24:1 Yamalube 2*
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 / VM38SS / 4V9-00
Main Jet / Pilot Jet	390 / 40
Needle Jet / Jet Needle-Clip Position	Q-2 / 6F39-4
Slide Cutaway or Throttle Valve	2.0
Float Level / Fuel Level	27.0mm ± 1.0mm / NA
Idle rpm	#
Max CO* / Max HC* / Set CO	#
SUSPENSION	
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / # / 423cc
Gas Pressure	0 kg/cm²
Spring Length Std.	515mm
Monoshock: Oil Type / Qty	Not Rebuildable
Gas Pressure	18 kg/cm²
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm
Tire Size (Nominal Pressure)	F-3.00-21 (psi Optional) R-5.40-17 (psi Optional)
TRANSMISSION - Oil Type/ Qty Chg/ Qty Recsemble	SAE 10W30 SE / 750cc / 800cc
Primary Drive Type / Teeth / Ratio	Helical Gear / 69-34 / 2.029
Secondary Drive Type / Teeth / Chain	Chain / 44-14 / DID520V3-108L
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm
Clutch Spring Length Std ~ Min	36.0 ~ 35.0mm
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	2.0mm BTDC
Spark Plug Type	Champion N-3
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.5 m-kg / 5K Ω
Point Gap / Condenser Capacitance	# / #
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 15% / 5.9K Ω ± 15%
Pulser Coil or Pickup Coil Color Code / Ω	White/Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 420 Ω ± 10% / Red ~ Blk / 13.6 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5.3W / #
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48 Ω ± 10%
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 6.0 m-kg
Front Axle Holder Nut	8 x 1.0: 1.0 m-kg
Rear Axle Nut	16 x 1.5: 10.0 m-kg
Rear Axle Pinch Bolt	#
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	#
Cylinder Head	8 x 1.25: 2.5 m-kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 3.0 m-kg
Front, Lower	8 x 1.25: 3.0 m-kg
Rear, Upper	10 x 1.25: 6.5 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 Manual Assembly Manual	LIT-11626-03-12 LIT-11666-03-11	Combined with IT250J Supp. to LIT-11666-03-31

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TSB MOTORCYCLE — 400 SECTION	DATE 8/16/82	NO. M81-058A

YZ490J

1982 SERVICE DATA

This bulletin replaces M81-058.

Please remove and destroy bulletin M81-058. ▲Denotes a change from the original bulletin.

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. / #
Dry Vehicle Weight	106 kg
ENGINE TYPE	2 Stroke, Reed Valve
Bore-Stroke/Number Cylinders/Displacement (cc)	85mm / 82mm / 1 / 487cc
Compression Ratio/Compression Pressure Min~Max	7.0:1 / #
Piston Skirt Clearance New / Max	0.060 ~ 0.085mm / 0.1mm
Ring End Gap Top / 2nd / 3rd	0.35 ~ 0.50mm / 0.35 ~ 0.50mm / #
Valve Clearance (Cold) Intake / Exhaust	#
Oil Pressure Hot / rpm	#
Oiling System	Premix 24:1 Using Yamalube 2*
Capacity: Dry	#
Oil and Filter Change	#
Oil Change	#
Lubricant: Temp. Above 5°C (40°F)	Yamalube 2*
Temp. Below 15°C (60°F)	Yamalube 2*
Cooling System / Capacity	Air / #
Coolant / Mixing Ratio	# / #
AUTOLUBE - Min Stroke / Color Code	#
Minimum Output @ 200 Cycles	#
Maximum Output @ 200 Cycles	#
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM38SS / 5X6-00-
Main Jet / Pilot Jet	440 / 50
Needle Jet / Jet Needle Clip Position	Q-8 / 5F16-3
Slide Cutaway or Throttle Valve	3.0
Float Level / Fuel Level	27 ± 1.0mm / NA
Idle rpm	#
Max CO* / Max HC* / Set CO	#
SUSPENSION	
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / 150mm With Forks Compressed / #
Gas Pressure	0 kg/cm²
Spring Length Std.	386mm
Monoshock: Oil Type / Qty	Not Rebuildable
▲ Gas Pressure	8 kg/cm²
Minimum Brake Lining Thickness	Front: 2.0mm Rear: 2.0mm
Tire Size (Nominal Pressure)	F 3.00-21 (1.0 kg/cm²) R 140/80-18 (1.0 kg/cm²)
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 / DID520DS-118
Clutch Friction Plate Thickness Std. ~ Min.	3.0 ~ 2.7mm
Clutch Spring Length Std. ~ Min.	36.0 ~ 35.0mm
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	#

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TECHNICAL BULLETIN

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IT490L
1984 SERVICE DATA

MODEL - (BM I.D. NUMBER	IT490L 26A
Initial Engine Number / Frame Number	26A-100101 / JYA26A00[ ](EA100101
Fuel Type / Total Fuel Tank Capacity / Reserve Cap.	Premium / 13.5 Lit / #

ENGINE TYPE	2-Stroke, Reed Valve
Bore / Stroke / Number Cylinders / Displacement	67mm / 69mm / 1 / 487cc
Compression Ratio / Pressure Min ~ Max	6.7:1 / NA
Piston Skirt Clearance New / Max	0.070 ~ 0.075mm / 0.10mm
Ring End Gap Top / 2nd / 3rd	0.35 ~ 0.50mm / 0.35 ~ 0.50mm / #
Valve Clearance (Cold) Intake / Exhaust	#
Oiling System	Premix (24:1 Using Yamalube R*)
Capacity: Dry	#
Oil and Filter Change	#
Oil Change Only	#
Lubricant: Temp Above 5°C (40°F)	Yamalube R*
Temp Below 15°C (60°F)	Yamalube R*
Cooling System / Capacity	Air / #
Coolant Type / Mixing Ratio	#/ #

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

CARBURETOR - Manufacturer / Type / I.D. Number	Mikuni / VM38SS / 4V6-10
Main Jet / Pilot Jet / Pilot Screw (Turns Out)	390 / 40 / 1-3/8
Needle Jet / Jet Needle-Clip Position	Q-2 / 6F39-4
Slide Cutaway	2.0
Float Level / Fuel Level	27mm / NA
Idle rpm	Rider's Preference
Max CO% / Max HC% / Set CO	#

SUSPENSION -	
Front: Inner Tube Diameter	43mm
Oil Type / Level / Qty	10 Wt. Fork Oil* / 170mm / 278cc
Gas Pressure Min ~ Max / Standard	0 ~ 1.2kg/cm² / 0 kg/cm²
Spring Length Standard	529mm
Rear: Gas Pressure Min ~ Max / Standard	12 ~ 20 kg/cm² / 15 kg/cm²
Minimum Brake Lining Thickness Front / Rear	2.0mm / 2.0mm
Tire Size (Nominal Pressure) Front / Rear	3.00-21 (Manatoba) / 150/80-18 (Manatoba)

TRANSMISSION - Oil Type / Qty Change / Qty Dry	SAE 10W30 SE or SF / 750cc / 800cc
Secondary Drive Type / Teeth / Chain	Chain / 44-14 / DK520VS-110L
Middle Gear Case Capacity	#
Final Gear Case Capacity	#
Gear Case Lubricant	#

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
Spark Plug Type	Champion N-3C
Spark Plug Gap / Torque / Cap Ω	0.7 ~ 0.8mm / 2.0 m-kg / 0Ω
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 / 420Ω ± 10%

LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V-3W / #
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48Ω ± 10%

TORQUE VALUES	
Front Axle Nut	M14: 6.0 m-kg
Front Axle Holder Nut	M8: 2.0 m-kg
Rear Axle Nut	M18: 10.0 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	M8: 3.0 m-kg
Engine Mounting Bolts: Upper Bracket	M10: 5.5 m-kg
Upper	M8: 3.0 m-kg
Lower	M8: 3.0 m-kg

# = Does Not Apply to This Model
NA = Information Not Available

* = Available from YPDI
+ = For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's/Service Manual	LIT-11626-04-30	
Assembly Manual	LIT-11666-04-30	Supp. to YZ/IT Basic Assembly Manual (83-91)
Consumer Info.		Does Not Apply