



IT175E 1978 SERVICE DATA

MOTORCYCLE
M7-048

MODEL – IBM I.D. NUMBER	IT175E – 1W2
Initial Engine Number/Frame Number	1W2-020101 / 1W2-020101
Basic Color(s)	Sky Blue
ENGINE TYPE	2-stroke, air-cooled, reed valve
Bore/Stroke/Number Cylinders/Displacement (cc)	66mm / 50mm / 1 / 171cc
Compression Ratio/Compression Pressure min.~max.	7.4:1 / ϕ
Piston Skirt Clearance new/max.	.040 ~ .045mm / 0.1mm
Ring End Gap top/2nd/3rd	0.3 ~ 0.5mm / same / ϕ
Valve Clearance (cold) Intake/Exhaust	ϕ
Oil Pressure hot/rpm	ϕ
Oil Tank or Engine Sump Capacity	Premix Yamalube R* 20:1
AUTOLUBE – Min. stroke/Color code	ϕ
Minimum Output @ 200 strokes	ϕ
Maximum Output @ 200 strokes	ϕ
CARBURETOR – mfr./type/I.D. number	Mikuni / VM34SS / 1W2-00
Main Jet/Pilot Jet	360/60
Needle Jet/Jet Needle-Clip Position	P-4 / 6F21-3
Slide Cutaway or Throttle Valve	2.0
Float Level	23.5 \pm 1mm
Mixture Screw – turns out/idle rpm	1 1/2 / ϕ
SUSPENSION	
Front Forks: Oil type/level/qty	20wt Fork Oil* / ϕ / 262cc
Gas Pressure	ϕ
Spring Length std	566mm
Monoshock: Oil type/qty	ϕ
Gas Pressure	18 kg/cm ²
TRANSMISSION – oil type/qty chg/qty reassemble	SAE20W40 (Yamalube 4*) / 600cc / 650cc
Primary drive type	Helical Gear
Secondary type/teeth/chain	Chain / 41-12 / DID520TR - 94L
Clutch Friction Plate Thickness std ~ min.	3.0 ~ 2.7mm
Clutch Spring Length std ~ min.	36.0 ~ 35.0mm
Tires size (nominal pressure)	Front: 3.00-21 (13psi) Rear: 4.10-18 (16psi)
ELECTRICAL – System/Type	AC Magneto / CDI
Maximum Output	ϕ
Field Coil Color Code/ Ω	ϕ
Charging Coil Color Code/ Ω	ϕ
Source Coil Color Code/ Ω	Brn ~ Blk / 420 Ω \pm 10%
Lighting Coil Color Code/ Ω	Yel-Red~Blk/0.45 Ω \pm 10%/Blk-Red~/13.6 Ω \pm 10%
Pulse Coil or Pickup Coil Color Code/ Ω	Wht-red ~ Blk / 12.4 Ω \pm 10%
Ignition Coil test gap Primary Ω / Secondary Ω	6mm / 1.0 Ω \pm 10% / 5.9K Ω \pm 20%
Battery–model/spec. grav./chg rate x hour	ϕ
Headlight/Taillight/Signal Rating	6V25-25W / 6V 5.3W / ϕ
Point Gap/Condenser Capacitance	ϕ
Spark Plug Type	Champion N-2G
Spark Plug Gap/Torque/Cap Ω	0.6 ~ 0.7mm / 2.0 m-kg / ϕ
Timing Static	2.3mm \pm 0.15mm BTDC
Dynamic	Center line @ 2000 rpm

ϕ = Does Not Apply To This Model

* Available from Yamaha Parts Distributors, Inc.