

# RD400E

## 1978 SERVICE DATA

**MOTORCYCLE**  
**M7-039**

<b>MODEL – IBM I.D. NUMBER</b>	RD400ES / RD400ER – 1A1
Initial Engine Number/Frame Number	1A1-350101 / 1A1-350101
Basic Color(s)	Crystal Silver or Carmine Red
<b>ENGINE TYPE</b>	2-stroke, air-cooled, reed valve
Bore/Stroke/Number Cylinders/Displacement (cc)	64mm / 62mm / 2 / 398cc
Compression Ratio/Compression Pressure min. ~ max.	6.2:1 / $\phi$
Piston Skirt Clearance new/max.	.035 ~ .040mm / 0.1mm
Ring End Gap top/2nd/3rd	0.3 ~ 0.5mm / same / $\phi$
Valve Clearance (cold) Intake/Exhaust	$\phi$
Oil Pressure hot/rpm	$\phi$
Oil Tank or Engine Sump Capacity	1.8 liter Yamalube 2*
<b>AUTOLUBE – Min. stroke/Color code</b>	0.20 ~ 0.25mm / Sky Blue
Minimum Output @ 200 strokes	0.5cc
Maximum Output @ 200 strokes	5.7cc
<b>CARBURETOR – mfr./type/I.D. number</b>	Mikuni / VM28SC / 1A100
Main Jet/Pilot Jet	115 / 25
Needle Jet/Jet Needle-Clip Position	P-2 / 5L1-3
Slide Cutaway or Throttle Valve	2.5
Float Level	23mm $\pm$ 1mm
Mixture Screw – turns out/idle rpm	1½ / 1100 - 1200
<b>SUSPENSION</b>	
Front Forks: Oil type/level/qty	10 or 20 wt. Fork Oil / $\phi$ / 144cc
Gas Pressure	$\phi$
Spring Length std	422.5mm
Monoshock: Oil type/qty	$\phi$
Gas Pressure	$\phi$
<b>TRANSMISSION – oil type/qty chg/qty reassemble</b>	SAE20W40 (Yamalube 4) / 1500cc $\pm$ 50cc
Primary drive type	Helical Gear
Secondary type/teeth/chain	Chain / 38-17 / DK530DS - 96L
Clutch Friction Plate Thickness std ~ min.	3.0mm ~ 2.7mm
Clutch Spring Length std ~ min.	36.4mm std
Tires size (nominal pressure)	Front: 3.25S18 (26psi) Rear: 3.50S18 (28psi)
<b>ELECTRICAL – System/Type</b>	AC Generator / Battery Ignition
Maximum Output	$\phi$
Field Coil Color Code/ $\Omega$	Rotor: 5.5 $\Omega$ $\pm$ 10% Stator: 0.23 $\Omega$ $\pm$ 10%
Charging Coil Color Code/ $\Omega$	$\phi$
Source Coil Color Code/ $\Omega$	$\phi$
Lighting Coil Color Code/ $\Omega$	$\phi$
Pulse Coil or Pickup Coil Color Code/ $\Omega$	$\phi$
Ignition Coil test gap / Primary $\Omega$ / Secondary $\Omega$	6mm / 1.4 $\Omega$ $\pm$ 10% / 6.6K $\Omega$ $\pm$ 20%
Battery—model/spec. grav./chg rate x hour	12N 5.5-3B / 1.280 / 0.5A x 10 hr.
Headlight/Tailight/Signal Rating	12V 40-30W / 12V27-8WX2 / 12V27W
Point Gap/Condenser Capacitance	0.30 ~ 0.40mm / 0.22 $\mu$ F $\pm$ 10%
Spark Plug Type	NGK B8ES
Spark Plug Gap/Torque/Cap $\Omega$	0.6 ~ 0.7mm / 2.0kg-m / 10K $\Omega$ $\pm$ 10%
Timing Static	2.3mm $\pm$ 0.15mm BTDC
Dynamic	Fixed