



XVZ13TF, CT 2007

Service Data

"Royal Star Venture"

"Royal Star Tour Deluxe"

ENGINE:

Engine Type	Liquid Cooled, 4-Stroke, DOHC
Number Cylinders / Displacement	4 / 1294cc (78.96 cu. in)
Bore X Stroke	79 X 66mm (3.11 X 2.60 cu. in)
Valve Clearance (Cold): Intake	0.11~0.15mm (0.004~0.006 in)
Exhaust	0.16~0.20mm (0.006~0.008 in)
Oil Type: Above 5°C (40°F)	Yamalube 4, 20W40
Oil Type: Below 15°C (60°F)	Yamalube 4, 10W30
Capacity: Oil & Filter Change	3.7L (3.9 US qt)
Oil Change Only	3.5L (3.7 US qt)

COOLING SYSTEM:

Coolant Type / Mixing Ratio	Ethylene Glycol-Water / 1:1
Capacity	3.5L (3.7 US qt)

FUEL SYSTEM:

Carburetor Manufacturer / Type / Qty	MIKUNI / BDSR32 / 4
Main Jet	#1,2: #122.5; #3: #117.5; #4: #120
Pilot Jet / Pilot Screw (Turns Out)	#15 / $\emptyset$
Needle Jet / Jet Needle	P-0 / 5DL38-54
Clip Position / Slide Cutaway	Fixed / $\emptyset$
Float Height / Fuel Level	$\emptyset$ / 17 ± 0.5 mm
Idle RPM	950~1050 rpm
Set CO%	#1,3: 2.5~3.5%; #2,4: 3.5~4.5%
Fuel Tank Capacity: Main / Reserve	22.5L (5.9 US gal) / 3.5L (0.9 US gal)
Fuel Type	Unleaded Regular

TRANSMISSION:

Oil Type / Capacity	SEE ENGINE / $\emptyset$
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FINAL DRIVE:

Final Drive Type	Shaft Drive
Oil Type	SAE80API "GL-4" Hypoid Gear Oil
Capacity	0.2L (0.2 US qt)

SUSPENSION:

Front: Oil Type	5wt Yamaha Fork Oil
Level / Quantity	117mm (4.6 in) / 553cc (18.7 US oz)
Air Pressure Min~Max	0~50kPa (0.0~7.3 psi)
Air Pressure Standard	0kPa (0 psi)
Rear: Spring Preload (Std Installed Length)	165.5mm (6.52 in)
Air Pressure Min~Max	0~400kPa (0~58 psi)
Air Pressure Standard	0kPa (0 psi)

TIRES:

Front: Size	150/80-16 71H
Nominal Pressure	250kPa (36 psi)
Rear: Size	150/90B15M/C 74H
Nominal Pressure	250kPa (36 psi)

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IGNITION SYSTEM:

Ignition System	Transistor Controlled (Digital)
Ignition Timing (BTDC)	45° @ 5000 rpm
Spark Plug Type	DPR8EA-9 / X24EPR-U9
Spark Plug Gap	0.8~0.9mm (0.031~0.035 in)
Spark Plug Cap Ω	10K Ω
Ignition Coil: Test Gap	6mm (0.24 in)
Primary Ω / Secondary Ω	4.2 Ω $\pm$ 15% / 12.6K Ω $\pm$ 15%
Pickup Coil: Color Code / Ω	Gy~B / 210 Ω $\pm$ 10%
Source Coil: Color Code / Ω	$\emptyset$ / $\emptyset$

CHARGING SYSTEM:

Charging System Type	A/C Magneto
Maximum Output	14V 29A @ 5000 rpm
Battery: Model	YTX20L-BS
Specific Gravity / Charge Rate	1.320 / 2.0A
Stator Coil: Color Code / Ω	W~W / 0.31 Ω $\pm$ 10%
Lighting Coil: Color Code / Ω	$\emptyset$ / $\emptyset$

LIGHTING SYSTEM:

Headlight / Taillight	12V60W-55W / 12V27W-8W
Turnsignal	F: 12V27W-8W R: 12V27W
Indicator	12V1.7W

TORQUE VALUES:

Drain Plug, Engine Oil	M14: 4.3m-kG (31 ft-lb)
Valve Cover Bolts	M6: 1.0m-kG (7.2 ft-lb)
Spark Plug	M12: 1.8m-kG (13 ft-lb)
Front Axle Nut	M18: 7.8m-kG (56 ft-lb)
Front Axle Pinch Bolt / Nut	M8: 1.9m-kG (13 ft-lb)
Front Brake Caliper Bolts	M10: 4.0m-kG (29 ft-lb)
Rear Axle Nut	M18: 15.0m-kG (110 ft-lb)
Rear Axle Pinch Bolt / Nut	M8: 2.3m-kG (31 ft-lb)
Rear Brake Caliper Bolts	M10: 4.0m-kG (29 ft-lb)
Swingarm Pivot Shaft: Right	M25: 0.7m-kG (5.1 ft-lb)
Left & R.H. Locknut	M25: 10m-kG (72 ft-lb)

TUNE UP / MAINTENANCE PARTS:

Air Filter (Qty 2)	4XY-14451-01-00
Fuel Filter	1FK-24560-00-00
Oil Filter	3FV-13440-10-00
Gasket, Engine Oil Drain Plug	214-11198-01-00
Gasket, Valve Cover	4NK-11193-00-00
Spark Plug	NGK-DPR8E-A9-00
Front Brake Pad Kit	4WM-W0045-00-00
Rear Brake Pad Kit	4NK-W0046-00-00
Headlight Bulb (H4 Halogen)	5V2-84314-00-XX
Taillight Bulb	256-84714-61-00