

This Yamaha V-Star 950 manual is 360 pages.

## QUICK REFERENCE DATA

### CHAPTER ONE / GENERAL INFORMATION

Manual organization / Warnings, cautions and notes / Safety / Serial numbers and information labels / Fasteners / Shop supplies / Tools / Measuring tools / Electrical system fundamentals / Service methods / Storage / Specifications Specs

### CHAPTER TWO / TROUBLESHOOTING

Starting the engine / Engine does not start / Poor engine performance / Fuel system / Electronic diagnostic system / Charging system / Ignition system troubleshooting / Starter system troubleshooting / Engine / Engine lubrication / Cylinder leakdown test / Clutch / Gearshift linkage / Transmission / Electrical testing / Lighting and signal system troubleshooting / Front suspension and steering / Brake system / Specifications Specs

### CHAPTER THREE / LUBRICATION, MAINTENANCE and TUNE-UP

Tune-up / Engine rotation / Air filter / Crankcase breather hose inspection / Spark plugs / Ignition timing / Valve clearance / Engine compression test / Engine idle speed inspection / Throttle body synchronization / Fuel system hose inspection / Carbon canister (California models) / Throttle cables and grip / Clutch cable and clutch lever / Engine oil and filter / Engine oil pressure test / Battery / Exhaust system / Shift pedal / Sidestand / Drive belt / Tires and wheels / Steering bearings / Front fork / Front fork oil change / Shock absorber / Swing arm and rear suspension / Chassis, engine and frame fasteners / Brakes / Headlight aim / Horn, lights and turn signals / Specifications Specs

### CHAPTER FOUR / ENGINE TOP END

Camshafts / Rocker arms and shafts / Cam chains and guides / Cylinder head / Valves and valve components / Cylinder / Piston and piston rings / Cylinder stud replacement / Specifications Specs

### CHAPTER FIVE / ENGINE LOWER END

Servicing engine in frame / Engine / Crankcase / Crankcase seal and bearing replacement / Crankshaft / Connecting rods / Oil pump / Engine break-in / Specifications Specs

### CHAPTER SIX / CLUTCH AND EXTERNAL SHIFT MECHANISM

Right crankcase cover / Oil passage oil seal replacement / Clutch release shaft / Clutch / Primary drive gear / External shift mechanism / Clutch cable replacement / Specifications Specs

### CHAPTER SEVEN / TRANSMISSION AND INTERNAL SHIFT MECHANISM

Transmission / Internal gearshift mechanism / Specifications Specs

### CHAPTER EIGHT / FUEL INJECTION SYSTEM

Fuel injection (FI) / Fuel delivery system tests / Fuel tank / Fuel pump / Fuel sender / Fuel pump relay / Air filter housing / Throttle body / Intake manifold / Pressure regulator, fuel injectors and fuel rail / Idle speed control (ISC) unit / Throttle position sensor (TPS) / Engine control unit (ECU) / Intake air pressure (IAP) sensor / Air temperature sensor / Engine temperature sensor / Crankshaft position (CKP) sensor / Lean-angle sensor / O<sub>2</sub> sensor / Rollover valve / EVAP canister / Throttle cable replacement / Specifications Specs

### CHAPTER NINE / ELECTRICAL SYSTEM

Electrical component replacement / Electrical connectors / Battery / Battery box / Charging system

/ Regulator/rectifier / Left crankcase cover, stator coil / and crankshaft position sensor / Flywheel, starter clutch / and starter clutch gears / Ignition system / Ignition coils / Ignition coil mounting bracket / Crankshaft position (CKP) sensor / Lean angle sensor / Engine control unit (ECU) / Ignition timing / Ignition system diode / Starter / Starter relay switch / Starting circuit cut-off relay / Starting system diode / Lighting system / Headlight / Turn signals / License plate light / Tail/brake light / Indicator light replacement / Meter assembly / Lighting system troubleshooting / Signal system troubleshooting / Speed sensor / Oil level warning light and oil level switch / Relay unit / Diode test / Switches / Horn / Fuses / Wiring diagrams / Specifications Specs

## **CHAPTER TEN / WHEELS, TIRES, DRIVE BELT AND PULLEYS**

Motorcycle lift / Front wheel / Rear wheel / Front and rear hubs / Drive hub / Wheel service / Tire changing / Wheel balance / Outer drive pulley cover / Drive belt / Drive pulley / Inner drive pulley cover / Driven pulley / Specifications Specs

## **CHAPTER ELEVEN / FRONT SUSPENSION AND STEERING**

Handlebar / Handlebar grips / Front fork / Steering head and stem / Steering head bearing race replacement / Steering stem bearing race replacement / Specifications Specs

## **CHAPTER TWELVE / REAR SUSPENSION**

Shock absorber / Connecting rods and relay arm / Rear swing arm / Specifications Specs

## **CHAPTER THIRTEEN / BRAKES**

Brake service / Brake bleeding / Brake fluid draining and flushing / Brake pads / Front brake caliper / Front master cylinder / Rear brake caliper / Rear master cylinder and brake pedal / Brake hoses / Brake disc / Specifications Specs

## **CHAPTER FOURTEEN / BODY AND EXHAUST**

Seats / Side covers / Cylinder head side cover / Cylinder head plastic covers / and mounting brackets / Right side lower cover / Left footrest, shift pedal and shift rod / Right footrest / Sidestand / Windshield and mounting brackets / Saddlebags and bracket / Front fender / Rear fender / Exhaust system / Specifications Specs

## **INDEX**

## **COLOR WIRING DIAGRAMS**

Clymer Manuals Yamaha V-Star 950 Manual  
VStar Drag Star Dragstar

V-Star 950 (2009-2012)