

This Honda VT750 Shadow Shaft Drive Manual is 592 pages.

## QUICK REFERENCE DATA

### CHAPTER ONE / GENERAL INFORMATION

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

### CHAPTER TWO / TROUBLESHOOTING

Starting the engine / Engine will not start / Poor engine performance / Fuel system / Engine / Engine lubrication / Cylinder leakdown test / Clutch / Gearshift linkage / Transmission / Electrical testing / Final drive / Front suspension and steering / Brake system

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

Tune-up / Air filter / Engine compression test / Spark plugs / Ignition timing / Valve clearance / Idle speed adjustment / Fuel system hose inspection / Fuel filter / Throttle cable / Clutch cable and clutch lever / Engine oil and filter / Engine oil pressure check / Cooling system / Front fork oil change / Specifications

### CHAPTER FOUR and FIVE / ENGINE

Removal installation / Cylinder head covers and rocker arms / Camshafts / Cam chain tensioner and cam chain / Cylinder head / Valves and valve components / Cylinder / Piston and piston rings / Cylinder stud / Crankcase / Crankcase seal and bearing / Crankshaft / Connecting rods / Balancer shafts / Oil pump / Output gear / Specifications

### CHAPTER SIX / CLUTCH AND EXTERNAL SHIFT MECHANISM

Right crankcase cover / Clutch release assembly / Primary drive and driven gears and oil pump chain and sprockets / External shift mechanism / Specifications

### CHAPTER SEVEN / TRANSMISSION AND INTERNAL GEARSHIFT MECHANISM

Specifications

### CHAPTER EIGHT / CARBURETOR AND EMISSION CONTROL SYSTEMS

Fuel system differences / Fuel tank / Fuel valve / Air filter housing / Carburetor / Intake manifold / Pilot screw adjustment idle drop procedure / High altitude adjustment / Throttle cable replacement / Choke cable replacement / Fuel pump and fuel filter / Crankcase breather system / Pulse secondary air supply system / Evaporative emission control system / (California models) / Specifications

### CHAPTER NINE / FUEL & INJECTION & EMISSION CONTROL SYSTEMS

### CHAPTER TEN / ELECTRICAL SYSTEM

Electrical component replacement / Electrical connectors / Battery / Battery box / Charging system / Stator coil, ignition pulse generator and left crankcase cover / Flywheel, starter clutch and starter drive gears / Ignition system testing / Ignition coils / Ignition pulse generator / Ignition control module ICM / Ignition timing / Throttle position sensor / Starter / Starter relay switch / Clutch diode / Lighting system / Vehicle speed sensor VSS / Coolant temperature indicator and engine coolant temperature ECT sensor / Fan switch / Oil pressure switch and oil pressure indicator / Neutral switch / Sidestand / Clutch switch / Brake light switch / Ignition switch / Handlebar switch / Turn signal relay / Fuel cutoff relay / Horn / Fuses / Specifications

## **CHAPTER ELEVEN / COOLING SYSTEM**

Temperature warning system / Cooling system inspection / Radiator / Cooling fan / Coolant reserve tank / Thermostat / Thermostat housing / Coolant pipe / Water pump / Specifications

## **CHAPTER TWELVE / WHEELS AND TIRES**

Motorcycle lift / Front wheel / Rear wheel / Front and rear hubs / Driven flange / Wheel service (cast wheels) / Wheel service (lace wheels) / Tire safety / Tire changing / Wheel balance / Specifications

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

Handlebar / Handlebar grips / Front fork / Steering assembly / Steering head and stem / Steering bearing preload check / Steering bearing replacement / Specifications

## **CHAPTER FOURTEEN / REAR SUSPENSION**

Shock absorber / swing arm / Final drive unit and drive shaft / Ring and pinion gear measurements / Specifications

## **CHAPTER FIFTEEN / BRAKES**

Linked braking system LBS / Brake service / Brake bleeding / Brake fluid draining / Brake pads / Brake caliper removal and installation / Brake caliper overhaul / Front master cylinder / Rear master cylinder / Proportional control valve / Brake hose and brake line replacement / Brake disc / Rear brake pedal / Specifications

## **CHAPTER SIXTEEN / ANTI-LOCK BRAKE SYSTEM**

### **CHAPTER SEVENTEEN / BODY AND EXHAUST SYSTEM**

Seat / Side covers / Left crankcase rear cover / Front fender / Rear fender / Rider footrests / Sidestand / Windshield / Backrest and saddlebags / Exhaust system / Specifications

## **INDEX**

## **COLOR WIRING DIAGRAMS**

Models covered:

2004 2005 2006 2007 2008 2009 Honda VT750C Aero

2011 2012 2013 Honda VT750C Aero

2007 2008 2009 Honda VT750C2 Spirit

2012 2013 Honda VT750C2 Spirit

2010 2011 2012 2013 Honda VT750C2B Phantom

VT750C Aero

VT750C2 Spirit

VT750C2B Phantom

VT750C Aero (2004-2009 & 2011-2013)

VT750C2 Spirit (2007-2009 & 2012-2013)

VT750C2B Phantom (2010-2013)