

This Honda VTX1800 Manual is 456 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

### 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 / PERIODIC LUBRICATION, MAINTENANCE AND TUNE-UP

Tune-up / Cylinder identification and firing order / Engine rotation / Air filter / Crankcase breather inspection / Engine compression test / Spark plugs / Ignition timing / Valve clearance / Idle speed adjustment / Air screw synchronization / Fuel hose inspection / Throttle cable / Clutch / Engine oil and filter / Engine oil pressure check / Cooling system / Secondary air supply system inspection / Evaporative emission control system inspection (California models) / Battery / Final drive / Wheels and tires / Steering assembly inspection / Front suspension inspection / Rear suspension inspection / Brake system / Headlight aim / Sidestand and ignition cut-off switch test / Front fork oil change / Fastener inspection / Specifications

### CHAPTER FOUR / ENGINE TOP END

Cylinder head covers / Camshafts / Cam chain tensioner and cam chain / Cylinder head / Valves and valve components / Cylinder / Pistons and piston rings / Cylinder stud replacement / Specifications

### CHAPTER FIVE / ENGINE LOWER END

Servicing engine in frame / Engine / Crankcase / Crankcase seal and bearing replacement / Crankshaft / Connecting rods / Balancer shaft / Oil pump / Output gear / Engine break-in / Specifications

### CHAPTER SIX / CLUTCH AND EXTERNAL SHIFT MECHANISM

Clutch bleeding / Clutch fluid flushing and draining / Clutch master cylinder / Clutch slave cylinder / Right crankcase cover / Clutch Primary drive and driven gears / External shift mechanism / Specifications

### CHAPTER SEVEN / TRANSMISSION AND INTERNAL SHIFT MECHANISM

Transmission / Internal shift mechanism / Specifications

### CHAPTER EIGHT / FUEL INJECTION AND EMISSION CONTROL SYSTEMS

Fuel system precautions / Fuel tank / Depressurizing the fuel system / Fuel pressure test / Fuel flow test / Fuel pump / Air filter housing / Throttle body / Intake manifold / Fuel injectors and fuel rails / Starter valve / BARO and MAP sensors / Throttle position (TP) sensor / Intake air temperature (IAT) sensor / Engine coolant temperature (ECT) sensor / Crankshaft position (CKP) sensor / Camshaft position (CMP) sensor / Bank angle sensor / Oxygen (O<sub>2</sub>) sensors (California models) / Engine control module (ECM) / Intake duct control solenoid assembly / Throttle cable replacement / Emission control system labels / Secondary air supply system Evaporative emission control system (California models only) / Fuel injection system identification / Malfunction indicator

lamp (MIL) / DTC troubleshooting / Specifications

## **CHAPTER NINE / ELECTRICAL SYSTEM**

Electrical component replacement / Electrical connectors / Battery / Battery box / Charging system / Stator coil, crankshaft position (CKP) sensor and left crankcase cover / Flywheel, starter clutch and starter drive gears / Ignition system testing / Ignition coils / Crankshaft position (CKP) sensor / Engine control module (ECM) / Ignition timing / Starting system testing / Starter / Starter relay / Lighting system / Meter assembly / Vehicle speed sensor (VSS) / Coolant temperature indicator and engine coolant temperature (ECT) sensor / Coolant temperature sensor / Fan motor switch / Oil pressure indicator and oil pressure switch / Neutral indicator and neutral switch / Fuel reserve indicator and fuel reserve sensor / Sidestand switch / Clutch switch Front brake light switch / Rear brake light switch / Ignition switch / Handlebar switch / Switch continuity test / Turn signal relay / Turn signal/position relay / Horn / Engine stop relay / Fuel cut-off relay / Clutch diode / Fuses / Color wiring diagrams / Specifications

## **CHAPTER TEN / COOLING SYSTEM**

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## **CHAPTER ELEVEN / WHEEL AND TIRES**

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

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## **Chapter Thirteen / Rear Suspension and Final Drive**

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

## **CHAPTER THIRTEEN / REAR SUSPENSION**

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## **CHAPTER FOURTEEN / BRAKES**

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

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## **INDEX**

## **COLOR WIRING DIAGRAMS**

Models covered:

2002 2003 2004 2005 2006 2007 Honda VTX1800C VTX1800 VTX 1800 C 2005 2006 2007 2008

Honda VTX1800F VTX1800 VTX 1800 F 2004 2005 2006 2007 2008 Honda VTX1800N VTX1800  
VTX 1800 N 2002 2003 2004 2005 2006 2007 Honda VTX1800R VXT1800 VTX 1800 R 2002 2003  
2004 2005 2006 Honda VTX1800S VTX1800 VTX 1800 S 2007 2008 Honda VTX1800T VTX1800  
VTX 1800 T

Clymer Manuals Honda VXT1800 Manual  
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Clymer Manuals Honda VTX1800S Manual  
Clymer Manuals Honda VTX1800T Manual  
Clymer Manuals Honda VXT1800 Online Manual  
Clymer Manuals Honda VTX1800C Online Manual  
Clymer Manuals Honda VTX1800F Online Manual  
Clymer Manuals Honda VTX1800N Online Manual  
Clymer Manuals Honda VTX1800S Online Manual  
Clymer Manuals Honda VTX1800T Online Manual

VTX1800C (2002-2007)  
VTX1800F (2005-2008)  
VTX1800N (2004-2008)  
VTX1800R (2002-2007)  
VTX1800S (2002-2006)  
VTX1800T (2007-2008)