

This Honda Gold Wing Manual is 720 pages. Includes 2006-2011 all 2001-2010 Color Wiring Diagrams on CD.

## QUICK REFERENCE DATA

### CHAPTER ONE / GENERAL INFORMATION

Manual organization / Warnings, cautions and notes / Safety / Serial numbers / Fasteners / Shop supplies / Basic tools / Precision measuring tools / Electrical system fundamentals / Basic service methods / Storage Specifications

### CHAPTER TWO / TROUBLESHOOTING

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

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

Fuel / Tune-up / Cylinder identification and firing order / Air filter / Engine compression test / Spark plugs / Ignition timing / Valve clearance / Engine idle speed inspection / Fuel hose inspection / Throttle cable lubrication / Throttle cable operation and adjustment / Reverse operation / Clutch / Engine oil and filter / Cooling system / Crankcase breather inspection / Emission control systems / Final drive oil / Tires and wheels / Brakes / Lights and horn inspection / Sidestand switch and ignition cut-off system / Steering head bearing inspection / Front suspension inspection / Rear suspension inspection / Fasteners / Unscheduled maintenance / Specifications

### CHAPTER FOUR / ENGINE TOP END

Cylinder head covers / Camshafts / Cam chain, tensioner and timing sprocket / Cylinder head / Valves and components

### CHAPTER FIVE/ENGINE LOWER END

Removal installation / Rear crankcase cover / Primary gears / output shaft / Output shaft / Reverse shift arm / Crankcase / Pistons and connecting rods / Crankshaft / Oil strainer and pressure relief valve / Oil pump / Break-in

### CHAPTER SIX/CLUTCH

Brake fluid / Preventing brake fluid damage / Clutch fluid draining / Clutch system bleeding / Clutch master cylinder / Clutch slave cylinder / Clutch cover / Clutch / Specifications

### CHAPTER SEVEN/SHIFT MECHANISM AND TRANSMISSION

External shift linkage / Mainshaft / Gearshift spindle / Shift forks and shift drum / Countershaft

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

Fuel injection system precautions / Fuel and vacuum hose identification / Depressurizing the fuel system / Fuel pressure test / Fuel flow test / Fuel tank / Air filter housing / Fuel injectors / Fuel pressure regulator / Throttle body / Fuel pump / Fuel pump relay / Baro and MAP sensor / Idle air control (IAC) valve / Throttle position (TP) sensor / ECM test harness / MIL lamp circuit test / Cam pulse generator / Knock sensors / Oxygen (O2) sensors / Vehicle speed sensor (VSS) / Engine control module (ECM) / Intake air temperature (IAT) sensor / Engine idle speed adjustment / Emission control system labels / Secondary air supply system / Evaporative emission control system / Intake manifold Malfunction indicator lamp (MIL) / Specifications

## **CHAPTER NINE/ELECTRICAL SYSTEM**

Electrical component replacement / Electrical connectors / Battery / Charging system / Alternator / Ignition system troubleshooting / Ignition coil / Ignition pulse generator / Ignition pulse generator rotor / PGM-FI ignition relay / Bank angle sensor / Engine control module / Ignition timing / Starter/reverse system troubleshooting / Starter relay A / Starter relay B / Reverse switch / Reverse relay / Reverse shift relays / Reverse shift actuator / Reverse regulator / Reverse resistor assembly / Power control relays / Speed limiter relay / Starter/reverse motor service / Headlight / Headlight adjusters / Headlight adjusting switch / Headlight adjuster relay / Front turn signal light / Trunk brake/taillight / License plate light / Saddlebag combination light / Combination meter / Speedometer / Tachometer / Coolant temperature gauge / ECT sensor / Fuel gauge (low fuel indicator) / Fuel level sensor / Oil pressure indicator and oil pressure switch / Neutral indicator / Turn signal relay / Turn signal cancel unit / Position light relay / Open air temperature sensor / Multi-display control switch / Left panel switch / Hazard switch / Hazard switch diode / Handlebar switches / Ignition switch / Cruise control switches / Clutch switch / Front brake light switch / Rear brake light switch / Gear position switch / Sidestand switch / Horns / Relay box / Fuses / Audio system / Audio unit / Audio switch / Antenna / Headset junction cable / Speakers / Specifications

## **CHAPTER TEN/COOLING SYSTEM**

Temperature warning system / Inspection / Hoses / Water pump mechanical seal / Pressure test / Reserve tank / Radiators / Fans / Fan relay / Thermostat

## **CHAPTER ELEVEN/WHEELS AND TIRES**

Bike lift / Front wheel / Rear wheel / Wheel runout and balance / Front hub / Tire safety / Tire changing / Tire repairs / Specifications

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

Handlebars / Front fork / Steering head and stem / Steering bearing preload / Steering head bearing races

## **CHAPTER THIRTEEN/REAR SUSPENSION AND FINAL DRIVE**

Shock absorber / Suspension level relays / Suspension linkage / Swingarm / Final drive

## **CHAPTER FOURTEEN / BRAKES**

Linked brake system (LBS) / Brake fluid selection / Preventing brake fluid damage / Brake service / Brake pads / Brake calipers / Brake caliper overhaul / Front master cylinder / Rear master cylinder and rear brake pedal / Secondary master cylinder / Delay valve / Proportional control valve / Brake hose and brake pipe replacement / Brake disc / Brake bleeding service tips and tools / Brake fluid draining / Flushing the brake system / Bleeding the system / Specifications

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

ABS service precautions / ABS troubleshooting / Wheel speed sensors / Pulser ring / ABS modulators / ABS electronic control unit (ECU) / Specifications

## **CHAPTER SIXTEEN/CRUISE CONTROL SYSTEM**

Cruise control system components / Cruise control troubleshooting / Cruise/reverse control unit / Cruise control relays / Cruise actuator / Cruise control switches / Specifications

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

Engine side covers / Seat / Passenger seat / Front and rear fender / Top cover / Fairings / Meter panel / Mirrors and front turn signals / Windshield / Top shelter / Trunk / Saddlebags / Remote transmitter / Remote transmitter and circuit troubleshooting / Trunk lock control unit / Saddlebag open switch / Exhaust system

## **2006-2010 SERVICE INFORMATION and all 2001-2010 COLOR WIRING DIAGRAMS on CD**

Procedures and specifications unique to 2006-2010 models (including airbag service procedures) are included on the CD Supplement included with this manual. Procedures include: Air filter / Valve clearance / Throttle cable operation and adjustment / Engine oil and filter / Cylinder head covers / Camshafts / Cam chains and timing sprocket / Rear crankcase cover / Primary gears/output shaft / Crankcase / Fuel pressure test / Fuel tank / Air filter housing / Fuel injectors / Throttle body / Fuel pump / Fuel pump relay / BARO and MAP sensors / Idle air control valve IACV / Cam pulse generator/camshaft position CMP sensor / Knock sensors / Oxygen O2 sensors and air/fuel ratio A/F sensors / Vehicle speed VS sensor / Engine control module ECM / Intake air temperature IAT sensor / Engine idle speed adjustment / Emission control system labels / Secondary air supply system / Intake manifold / Malfunction indicator lamp MIL / DTC troubleshooting / Charging system / Alternator / Ignition system troubleshooting / Ignition coil / Crankshaft position CKP sensor / Crankshaft position CKP sensor generator rotor / FI/IGN relay / Bank angle sensor / Starter/reverse system troubleshooting / Reverse relay / Reverse shift relays / Reverse shift actuator / Reverse regulator / Reverse resistor assembly / Power control relays / Speed limiter relay / Starter/reverse motor service / Headlight / Headlight adjusters / Headlight adjusting switch / Headlight adjuster relay / Combination meter / Speedometer / Tachometer / Coolant temperature gauge / ECT sensor / Fuel gauge low fuel indicator / Fuel level sensor / Oil pressure indicator and oil pressure switch / Neutral indicator / Turn signal relay / Turn signal cancel unit / Position light relay / Open air temperature sensor / Multi-display / Hazard switch / Handlebar switches / Ignition switch / Rear brake light switch / Left panel switch / Right upper panel switch airbag models / Right lower panel switch / Gear position GP sensor / Gear position sensor diode / Relay box / Fuses / Audio system / Audio unit / Audio switch / Antenna / Speakers / Noise filter / Power amplifier all models except 1A / Navigation system / Navigation system troubleshooting / Grip and seat heater system troubleshooting / Radiators / Cooling fans / Fan control relay testing / Front wheel / Rear wheel / Tire changing 2009-2010 models / Tire pressure monitoring system TPMS / Tire pressure monitoring system TPMS troubleshooting / Tire pressure monitoring system TPMS / DTC troubleshooting / TPMS indicator and low tire pressure indicator circuit test / ABS troubleshooting / Wheel speed sensors / ABS modulators / ABS control module / Cruise control troubleshooting / Cruise/reverse control module / Cruise control relays / Cruise actuator / Cruise control switches / Seat / Front fender A and fender covers / Front fender B / Front lower fairings / Meter panel / Mirrors and front turn signals / Windshield assembly / Meter panel visor / Fairing molding and fairing pockets / Front fairing / Top shelter / Shelter inner cover / Rear fender A / Rear fender C all models except 1A / Trunk / Rear fender B / Saddlebag/trunk stay / Remote transmitter and circuit troubleshooting / Open switch diode test / Exhaust system / Airbag system / Specifications

Models covered: 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 GL1800 GL 1800 Goldwing Gold Wing

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