

This Honda manual is 632 pages.

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

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

CHAPTER THREE / LUBRICATION, MAINTENANCE AND TUNE-UP

Maintenance intervals / Air filter / Engine oil and filter / oil strainer / Transmission oil / Compression check / Spark plug / Valve clearance / Decompressor system / Secondary air supply system / Control cable inspection and lubrication / Throttle cable / Hot start cable / Clutch lever adjustment / Drive chain and sprockets / Wheel bearing / Steering / engine break-in / Specifications Specs

CHAPTER FOUR AND FIVE / ENGINE

Removal and installation / Cylinder head cover / Camshaft and rocker arm / Cam chain tensioner, guides and cam chain / Cylinder head / Valves / Cylinder / Piston and piston rings / Countershaft seal / Shift shaft seal / Lubrication system / Crankcase / Crankcase seal and bearing / Oil pump and one-way valve / Crankshaft / Specifications Specs

CHAPTER SIX AND SEVEN / CLUTCH, PRIMARY DRIVE, STARTER CLUTCH, KICKSTARTER AND EXTERNAL SHIFT MECHANISM

Right crankcase cover / Clutch cover / Clutch release lever / Balancer shaft and primary drive gear / Starter clutch, balancer shaft and primary drive gear / Kickstarter and kick idle gear / External shift mechanism / Clutch cable / Specifications Specs

CHAPTER EIGHT / TRANSMISSION AND INTERNAL SHIFT MECHANISM

Transmission operation / Transmission overhaul / inspection / Internal shift mechanism / Specifications Specs

CHAPTER NINE / FUEL AND EMISSION CONTROL SYSTEMS

Fuel system safety / Fuel tank / Fuel shutoff valve and fuel filter / Air box / Carburetor / Carburetor service / Float height / Carb adjustment and rejetting / Throttle position sensor / Throttle cable / Hot start cable / Emission control labels / Crankcase breather / Pulse secondary air injection / Specifications Specs

CHAPTER TEN / ELECTRICAL SYSTEM

Connectors / Left crankcase cover / Stator and ignition pulse generator / Flywheel / Ignition coil / Ignition control module / Ignition system testing / Ignition timing / Battery / Charging system / Starting system testing / Starter / Starter relay switch / Lighting / Switches / Main relay / Fuse / Wiring diagrams / Specifications Specs

CHAPTER ELEVEN / COOLING SYSTEM

Inspection / Water pump seal / Pressure test / Radiators / Coolant reserve tank / Water pump / Cooling fan / Specifications Specs

CHAPTER TWELVE / WHEELS, TIRES AND DRIVE CHAIN

Front and rear wheel / Front and rear hubs / Wheel service / Drive chain / Sprocket / Tire / Specifications Specs

CHAPTER THIRTEEN / FRONT SUSPENSION AND STEERING

Handlebar / Handlebar grip replacement / Steering head / Steering play check and adjustment / Steering head bearing races / Front fork / Fork service / Front fork adjustment / Specifications Specs

CHAPTER FOURTEEN / REAR SUSPENSION

Shock absorber / Shock linkage / swing arm / Rear suspension adjustment / Specifications Specs

CHAPTER FIFTEEN / BRAKES

Front and rear brake pads / Front and rear brake caliper / Front and rear master cylinder / Brake hose / Brake disc / brake pedal / Brake system draining / Brake bleeding / Specifications Specs

CHAPTER SIXTEEN / BODY AND SUBFRAME

Seat / Side covers / Radiator shrouds / Engine guard / Center engine guard / Number plate / Front visor / Tripmeter and cable / Footpeg and mounting bracket / Sidestand / Subframe / Specifications Specs

COLOR WIRING DIAGRAMS

Models: CFR250R CRF250X CRF450R CRF450X CRF 250R 250X 450R 450X 250 450 R X 2002 2003 2004 2005

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