

## Contents

### 1. Operating instructions

Operation component locations (ED/2ED).....	1-1
Operation component locations (3ED/4ED).....	1-2
Fuel.....	1-3
Coolant.....	1-3
Basic Operation.....	1-3
Odometer/Speedometer (ED/2ED).....	1-5
Steering lock (ED/2ED).....	1-7
Shifting gears.....	1-7
Braking.....	1-8
Parking.....	1-8
Controls.....	1-8

### 2. Service data

Specifications.....	2-1
Service data.....	2-2
Torque Values.....	2-6
Tools.....	2-8
Special.....	2-8
Lubrication & Seal Points.....	2-9
Cable & Harness Routing.....	2-12

### 3. Service and maintenance

Maintenance schedule.....	3-1
Pre-ride Inspection.....	3-1
Warming-up Inspection.....	3-2
Ride Inspection.....	3-2
After Ride Inspection.....	3-2
Replacement Parts.....	3-2
Fuel Line.....	3-3
Air Cleaner.....	3-3
Spark Plug.....	3-4
Valve Clearance.....	3-4
Engine Oil/Oil Filter.....	3-6
Engine Idle Speed.....	3-8
Transmission Oil.....	3-8
Coolant.....	3-9
Clutch System.....	3-10
Exhaust Pipe And Muffler.....	3-10
Drive Chain.....	3-11
Drive Chain Slider.....	3-11
Drive/Driven Sprockets.....	3-12
Brake Fluid.....	3-13

### 5. Frame servicing

Front Wheel.....	5-1
Fork.....	5-3
Steering stem.....	5-12
Rear Wheel.....	5-15
Shock Absorber.....	5-16
Shock Linkage.....	5-20
Swingarm.....	5-21
Brake pad replacement.....	5-25
Front brake caliper.....	5-28
Rear brake caliper.....	5-29
Front master cylinder.....	5-30
Rear master cylinder.....	5-31
Brake pedal.....	5-31
Clutch master cylinder.....	5-32

### 6. Electrical servicing

Charging system inspection.....	6-1
Ignition system inspection.....	6-3
PGM-FI System inspection.....	6-5
MIL and DTC (ISO) error codes for the PGM-FI injection system.....	6-9
Bank angle sensor inspection.....	6-10
Engine stop switch inspection.....	6-11
Cooling fan system inspection.....	6-11
Chapter lights / instruments / switches (ED/2ED).....	6-12
Indicator light/Indicator light relay.....	6-13
Speed sensor.....	6-16
Wiring diagram (ED/2ED).....	6-18
Wiring diagram (3ED/4ED).....	6-19

Brake Pad Wear.....	3-14
Brake System.....	3-14
Handlebar And Steering Head Bearings.....	3-15
Wheels And Tires.....	3-15
Front Suspension.....	3-16
Fork (ED/3ED).....	3-16
Fork (2ED/4ED).....	3-17
Rear Suspension.....	3-18
Front headlight and front and rear position light.....	3-19
Cleaning.....	3-20
Storage.....	3-20

### 4. Engine servicing

Oil Pressure Relief Valve.....	4-1
Oil Pump.....	4-1
Disassembly / Installation of fuel feed hose.....	4-4
Fuel Line Inspection.....	4-5
Fuel Tank/Fuel Pump.....	4-7
Injector.....	4-13
Throttle Body.....	4-13
Water Seal And Bearing Replacement.....	4-15
Radiator Removal/Installation.....	4-17
Engine Removal/Installation.....	4-18
Cylinder Compression.....	4-20
Cylinder Head Removal.....	4-23
Cylinder Head Disassembly.....	4-25
Cylinder Head Inspection.....	4-26
Valve Guide Replacement.....	4-27
Valve Seat Inspection/Refacing.....	4-28
Cylinder Head Assembly.....	4-31
Cylinder/Piston.....	4-32
Cylinder Head Installation.....	4-37
Camshaft/Cylinder Head Cover Installation.....	4-38
Right Crankcase Cover.....	4-40
Clutch Slave Cylinder.....	4-41
Clutch.....	4-43
Kickstarter.....	4-46
Gearshift Linkage.....	4-47
Left Crankcase Cover.....	4-49
Flywheel.....	4-52
Crankcase Separation/Disassembly.....	4-54
Crankshaft/Transmission Inspection.....	4-56
Crankcase Bearing Replacement.....	4-56
Transmission Assembly.....	4-58
Crankcase Combination.....	4-59