

This Kawasaki Vulcan 1600 Manual is 480 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 does not start / Poor engine performance / Electronic diagnostic system / Fuel system / Engine / Engine lubrication / Cylinder leakdown test / Clutch / Gearshift linkage / Transmission / Electrical testing / Charging system / Ignition system / Starting system / Final drive / Front suspension and steering / Brake system / Specifications

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

Maintenance schedules / Tune-up / Cylinder identification and firing order / Air filter / Engine compression test / Spark plugs / Ignition timing / Idle speed adjustment / Fuel hose inspection / Fuel pump screen and fuel filter / Throttle cable / Choke cable / Control cable lubrication / Brake and clutch lever lubrication / Clutch / Engine oil and filter / Cooling system / Evaporative emission control systems / Battery / Final drive oil / Drive shaft lubrication / Tires and wheels / Steering bearings / Front suspension check / Rear suspension check / Brakes / Headlight adjustment / Sidestand and ignition cut-off switch test / Engine stop switch check / Front fork oil change / Swing arm bearing lubrication / General lubrication / Fastener inspection / Specifications

### CHAPTER FOUR / ENGINE TOP END

Rocker case cover / Rocker case / Cam chain tensioner / Camshaft / External oil hoses / Cylinder head / Valves and valve components / Cam chain and chain guide / Cylinder / Piston and piston rings / Specifications

### CHAPTER FIVE / ENGINE LOWER END

Servicing engine in frame / Engine removal/installation / Shift pedal and shift linkage / External shift mechanism / Front bevel gearcase / Drive gear / Driven gear / Front bevel gear adjustments / Starter gears / Primary drive gear and water pump / drive mechanism / Balancer gears / Crankcase / Crankcase bearings / Crankshaft / Connecting rods / Balancer shaft / Oil pump and oil pressure relief / valve / Break-in / Specifications

### CHAPTER SIX / CLUTCH

Clutch bleeding / Clutch fluid draining and flushing / Clutch master cylinder / Clutch slave cylinder / Clutch cover / Clutch / Inner hub / Specifications

### CHAPTER SEVEN / TRANSMISSION and INTERNAL SHIFT MECHANISM

Transmission / Internal gearshift mechanism / Specifications

### CHAPTER EIGHT / FUEL SYSTEM

Digital fuel injection (DFI) / Fuel tank / Fuel return check valve (B and F models) / Fuel pump operation test / Fuel pressure test / Fuel pump discharge test / Fuel pump / Fuel injection main relay / Fuel pressure regulator / Electronic control unit (ECU) / Induction system / Idle speed control (ISC) valves / Fuel injectors / Throttle body and intake manifold / Throttle sensor / Intake air pressure (IAP) sensor / Intake air temperature (IAT) sensor / Water temperature sensor / Atmospheric pressure (AP) sensor / Crankshaft sensors / Vehicle-down sensor / FI indicator /

Throttle cable / Choke cable / Clean air system / Evaporative emission control system / Specifications

## **CHAPTER NINE / ELECTRICAL SYSTEM**

Electrical component replacement / Electrical connectors / Battery / Charging system / Regulator/rectifier / Left crankcase outer cover, alternator covers, stator coils, crankshaft sensors and rotor / Ignition system / Peak voltage testing / Ignition coils / Crankshaft sensors / Electronic control unit (ECU) / Ignition timing / Starting system / Starter / Starter relay / Starter circuit relay / Lighting system / Front turn signal housing / Headlight relay / Meter unit / Indicator panel (B and F models) / Turn signal cancelling system / Speed sensor / Fuel level system / Radiator fan / Radiator fan switch / Water temperature switch / Oil pressure light delay unit / Oil pressure switch / Sidestand interlock system test / Switch continuity test / Ignition switch / Front brake light switch / Rear brake light switch / Starter lockout switch / Neutral switch / Sidestand switch / Handlebar switch / Relays / Fuel level indicator light and water temperature warning LED diodes (B and F models) / Fuses and junction box / Color wiring diagrams / Specifications

## **CHAPTER TEN / COOLING SYSTEM**

Cooling system inspection / Radiator / Radiator fan / Coolant reserve tank / Thermostat / Water pump / Specifications

## **CHAPTER ELEVEN / WHEEL and TIRES**

Motorcycle lift / Front wheel / Rear wheel / Front and rear hubs / Rear wheel coupling / Wheel service / Tire service / Wheel balance / Specifications

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

Handlebar / Handlebar grips / Steering assembly / Steering adjustment / Steering head bearing race / Steering stem bearing / Front fork / Specifications

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

Shock absorber / Final drive unit / Swing arm and drive shaft / Specifications

## **CHAPTER FOURTEEN / BRAKES**

Brake service notes / Brake bleeding / Brake fluid draining and flushing / Brake pads / Brake caliper removal/installation / Brake caliper overhaul / Front master cylinder / Rear master cylinder / Rear brake pedal and footrest bracket / Brake hoses / Brake disc / Specifications

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

Rear seat (A, D, E and G models) / Front seat / Side covers / Front footrests / Sidestand / Front fender / Rear fender / Saddlebags (D and G models) / Windshield, sub-windshield and wind deflectors (D and G models) / Front frame guards (D and G models) / Rear frame guards (D and G models) / Backrest and hand grips (D and G models) / Downtube / Exhaust system / Specifications

## **INDEX**

## **COLOR WIRING DIAGRAMS**

Models covered:

Vulcan Classic A1 A2 A3 2003 2004 2005

Vulcan Classic A6F and E6F 2006

Vulcan Classic A7F and A7FA 2007

Vulcan Classic A8F and A8FA 2008

Vulcan Mean Streak B1 - B2 2004 2005

Vulcan Mean Streak B6F and F6F 2006  
Vulcan Mean Streak B7F and B7FA 2007  
Vulcan Mean Streak B8F and B8FA 2008  
Vulcan Nomad D1 2005  
Vulcan Nomad D6F and G6F 2006  
Vulcan Nomad D7F and D7FA 2007  
Vulcan Nomad D8F and D8FA 2008  
VN1600  
VN 1600

Clymer Manuals Vulcan Classic A1 Manual  
Clymer Manuals Vulcan Classic A2 Manual  
Clymer Manuals Vulcan Classic A3 Manual  
Clymer Manuals Vulcan Classic A6F Manual  
Clymer Manuals Vulcan Classic E6F Manual  
Clymer Manuals Vulcan Classic A7F Manual  
Clymer Manuals Vulcan Classic A7FA Manual  
Clymer Manuals Vulcan Classic A8F Manual  
Clymer Manuals Vulcan Classic A8FA Manual  
Clymer Manuals Vulcan Mean Streak B Manual  
Clymer Manuals Vulcan Mean Streak B2 Manual  
Clymer Manuals Vulcan Mean Streak B6F Manual  
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Clymer Manuals Vulcan Mean Streak B7F Manual  
Clymer Manuals Vulcan Mean Streak B7FA Manual  
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Clymer Manuals Vulcan Nomad D1 Manual  
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