

This Clymer Manuals BMW manual is 816 pages.

QUICK REFERENCE DATA

CHAPTER ONE / GENERAL INFORMATION

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

CHAPTER TWO / TROUBLESHOOTING

Operating requirements / Emergency troubleshooting / Engine starting / Engine performance / Engine noises / Engine lubrication / Clutch / Gearshift linkage / Transmission / Excessive vibration / Electrical troubleshooting / Test equipment / Basic test procedures / Electrical problems / Electrical system troubleshooting / Front suspension and steering/ Brake problems

CHAPTER THREE / LUBRICATION, MAINTENANCE AND TUNE-UP

Routine safety checks / Maintenance intervals schedule / Oil and filter change / Transmission oil check / Final drive oil change / Drive shaft oil change / Air filter change / Control cable lubrication / Periodic lubrication / Engine oil and filter change / Oil pump filter screen and oil pan cleaning / Transmission oil level change / Clutch and input shaft spline lubrication / Drive shaft oil level change / Front fork oil change / Swing arm pivot bearing lubrication / Final drive oil change / Periodic maintenance / Brake fluid level check / Brake pad inspection / Brake drum inspection / Front master cylinder (cable operated) cable adjustment / Rear brake pedal adjustment / Clutch free play adjustment / Camshaft chain tensioner adjustment / Air filter element service / Fuel flow test / Fuel shutoff valve filter service / Tune-up / Cylinder head nut torque check / Adjust valve clearance / Ignition timing / Breaker point service / Compression test / Carb synchronization / Spark plugs / Carburetor float bowl cleaning / Carburetor idle mixture and speed adjustment / Specifications

CHAPTER FOUR / ENGINE

Removal installation / Engine front cover / Cylinder head and cover / Rocker arm / Valves and components / Cylinder / Pistons and rings / Valve lifters / Connecting rods / Oil pump / Oil pan and strainer / Oil cooler / Timing chain cover / Camshaft, timing chain, timing sprockets and chain tensioner / Crankshaft / Crankcase / Break-in / Specifications

CHAPTER FIVE / CLUTCH

Clutch and flywheel / Clutch release mechanism / Clutch cable / Specifications

CHAPTER SIX / TRANSMISSION, GEARSHIFT MECHANISM AND KICKSTARTER

Transmission housing / Gearshift mechanism / Kickstarter / Specifications

CHAPTER SEVEN / CARBURETORS, EMISSION CONTROLS AND EXHAUST SYSTEM

Carburetor operation adjustment service / Slide-type carburetor Bing and Dell Orto / Bing constant velocity type carburetor / Air filter case / Throttle cable / Choke cable / Fuel tank / Fuel shutoff valves / Fuel filter / Crankcase breathe system / Air injection system / Evaporative emission controls system / Exhaust system / Specifications

CHAPTER EIGHT / ELECTRICAL SYSTEM

Charging system / Alternator / Voltage regulator / Diode board / Battery / Contact breaker-point ignition system / Ignition control unit / Ignition coils / Starting system / Starter / Starter relay / Lighting system / Headlight / Lights / Switches / Electrical connectors / Instrument cluster / Relays

/ Specifications

CHAPTER NINE / FRONT SUSPENSION AND STEERING

Wheel and hub / Handlebar / Steering head and stem / Steering head bearing race / Front fork / Front fork removal and installation / Front fork disassembly and assembly / Specifications

CHAPTER TEN / REAR SUSPENSION AND FINAL DRIVE

Wheel and hub / Shock absorber / Swing arm and drive shaft / Final drive unit / Pinion gear-to-ring gear adjustment / Taper roller bearing preload / Specifications

CHAPTER ELEVEN / BRAKES

Front rear drum brake / Front rear disc brake / Brake pad / Front rear master cylinder / Front rear caliper / Brake hose and line / Brake bleeding / brake pedal / Specifications

CHAPTER TWELVE / FRAME AND BODY

Sidestand / Centerstand / Foot pegs / Safety bars / Fenders / Rear sub-frame / Seat and tool box / Rear cowl / Headlight fairing (R65LS models) / Headlight fairing (R90S, R100CS and R100S models) / Headlight fairing (R100GS models) / Body panels (R100RS models) / Body panels (R80RT and R100RT models) / Luggage and rack / Windshield / Frame / Specifications

SUPPLEMENT / 1990 AND LATER SERVICE INFORMATION

Fuel tank (R100GS PD models) / Headlight / Instrument cluster (R100GS and R100GS PD models) / Clock (optional) (R100GS and R100GS PD models) / Handlebar (R100GS PD models) / Shock absorber (single-shock models) / Rear fender (R100GS PD models) / Seat and rear carrier (R100GS PD models) / Headlight fairing and mounting bracket (R100GS and R100GS PD models) / Engine guard (R100GS PD models) / Specifications

INDEX

COLOR WIRING DIAGRAMS