

This Harley Davidson Softail manual is 656 pages.

QUICK REFERENCE DATA

CHAPTER ONE / GENERAL INFORMATION

Manual organization / Notes, cautions and warnings / Safety first / Service hints / Serial numbers / Parts replacement / Torque specifications / Fasteners / RTV gasket sealant / Threadlock / Gasket remover / Expendable supplies / Basic hand tools / Test equipment / Precision measuring tools / Cleaning solvent / Other special tools / Mechanics tips / Ball bearing replacement / Oil seals / Specifications

CHAPTER TWO / TROUBLESHOOTING

Testing electrical components / Emergency troubleshooting / Engine noises / Electrical problems / Excessive vibration / Specifications

CHAPTER THREE / PERIODIC LUBRICATION, MAINTENANCE AND TUNE-UP

Routine safety checks / Maintenance schedule intervals / Periodic lubrication / Engine oil and filter change / oil tank flushing / Transmission oil change / Front fork oil change (non-Springer models) / Speedometer cable lubrication / Primary chain lubrication / Drive chain lubrication / Periodic maintenance / Drive chain inspection and adjustment / Final drive belt inspection and adjustment / Clutch adjustment / Clutch diaphragm spring adjustment (1985-189 wet clutch) / Throttle cable adjustment / Choke cable adjustment / Enrichener/Choke cable adjustment / Air cleaner service / Tune-up / Compression test / Spark plugs / Breakerless ignition service / Carburetor adjustments / Storage / Specifications

CHAPTER FOUR / ENGINE

Removal installation / Rocker arm cover / Cylinder head / Valves and components / Cylinder / Pistons and rings / Pushrods / Tappets and tappet guides / Oil pump / Oil filter mount / Gearcase cover and timing gears / Crankcase and crankshaft / Engine break-in / Specifications

CHAPTER FIVE / CLUTCH, PRIMARY DRIVE AND STARTER DRIVE

Dry clutch (early 1984 FXST) / Wet clutch / Primary chain / Compensating sprocket / Primary chain case / Electric starter drive (1984-1988) / Starter jackshaft (1989-on) / Specifications

CHAPTER SIX / 4-SPEED TRANSMISSION

Shifter cover / Shift forks / Kickstarter and starter clutch / Side cover (electric start) / Shifter adjustment / Specifications

CHAPTER SEVEN / 5-SPEED TRANSMISSION

Production gears (1994 models) / Shift cam assembly / Shift forks / Transmission / Transmission case / Transmission side cover (1987-on) / Adjustments / Specifications

CHAPTER EIGHT / FUEL, EXHAUST AND EMISSION CONTROL SYSTEMS

Air cleaner / Carburetor / Carburetor rejetting / Throttle and idle cable replacement / Choke enrichener cable / Fuel tanks / Fuel shutoff valve / Exhaust system / Emission control (1985-1991 California models) / Evaporative emission control system (1992-on California models) / Specifications

CHAPTER NINE / ELECTRICAL SYSTEM

Battery / Charging system / Ignition system / Ignition coil / Starter / Starter solenoid (1984-1988) / Starter solenoid (1989-1990) / Starter solenoid (1991-on) / Starter relay / Switches / Horn /

Turn signal module (1991-on) / Circuit breakers / Specifications

CHAPTER TEN / WHEELS, HUBS AND TIRES

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CHAPTER ELEVEN / FRONT SUSPENSION AND STEERING (MODELS WITH TELESCOPIC FRONT FORKS)

Handlebar / Steering head and stem / Steering head bearing race / Steering adjustment / Front fork / Specifications

CHAPTER TWELVE / SPRINGER FRONT FORK

Steering adjustment / Specifications

CHAPTER THIRTEEN / REAR SUSPENSION

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Brake pads / Brake caliper / Master cylinder / Disc brake / Bleeding the system / Specifications

CHAPTER FIFTEEN / FRAME, BODY AND FRAME REPAINTING

Jiffy stand (sidestand) / Footpegs / Front fender (1993-on FXSTS) / Front fender (all other models) / Rear fender / Saddlebags (1993-on) / Frame / Specifications

SUPPLEMENT

Ignition system / Routine safety checks / Periodic maintenance / Breakerless ignition service (1995-1999) / Engine removal (1996-1999) / Wet clutch (1998-1999) / Clutch shell, compensating sprocket and primary drive chain (1998-1999) / Evaporative emission control system (1996-1999) / Battery / Ignition system (1995-1999) / Lighting system (1995-1999) / Switches (1997-1999) / Turn signal module (1997-1999) / Front wheel (1996-1999) / Front hub (1996-1999 Springer models) / Rear hub (1997-1999) / Springer front fork (1997-1999) / Front brake caliper (1997-1999 FLSTS) / Front master cylinder (1997-1999) / Front fender (1995-1999 FLSTS)

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COLOR WIRING DIAGRAMS

Models covered:

1986 1987 1988 1989 1990 HARLEY-DAVIDSON FLST

1987 1988 1989 1990 1991 1992 1993, 1993 HDI 1994 1995 1996 1997 1998 1999 HARLEY-DAVIDSON FLSTC

1990 1991 1992 1993, 1993 HDI 1997 1998 1999 HARLEY-DAVIDSON FLSTF

1993, 1993 HDI, 1994 1995 1996 HARLEY-DAVIDSON FLSTN

1993, 1997 1998 1999 HARLEY-DAVIDSON FLSTS

1984 1985 1986 1987 1988 1989 1990, 1999 HARLEY-DAVIDSON FXST

1999 HARLEY-DAVIDSON FXSTB

1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 HARLEY-DAVIDSON FXSTC

1993 1994 1995 1996 HARLEY-DAVIDSON FXSTF

1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 HARLEY-DAVIDSON FXSTS

1995 1996 1997 1998 HARLEY-DAVIDSON FXSTSB