



SOFTAIL®

SOFTAIL® STANDARD Model Specifications¹ FXST

DIMENSIONS	
Length	91.3 in. (2320 mm)
Overall Width	34.1 in. (865 mm)
Overall Height	45.7 in. (1160 mm)
Seat Height:	
• Laden ²	25.8 in. (655 mm)
• Unladen	26.8 in. (680 mm)
Ground Clearance	4.9 in. (125 mm)
Rake (steering head)	30°
Fork Angle	30°
Trail	6.2 in. (157 mm)
Wheelbase	64.2 in. (1630 mm)
Tires (Dunlop® Harley-Davidson® Series, bias blackwall front and rear):	
• Front – D401F	100/90B19,57H,BW
• Rear – D401T	150/80B16,77H,BW
Fuel Capacity (warning light at approximately 1 gal.)	3.5 gal. (13.2 l)
Oil Capacity (w/filter)	5 qt. (4.7 l)
Transmission Capacity	1 qt. (.95 l)
Primary Chain Case Capacity	1.25 qt. (1.18 l)
Weight:	
• As Shipped	630 lb. (286 kg)
• In Running Order	655 lb. (297 kg)
• Gross Vehicle Weight Rating	1160 lb. (526 kg)
• Gross Axle Weight Rating	
• Front	450 lb. (204 kg)
• Rear	730 lb. (331 kg)
ENGINE	
Engine	Milwaukee-Eight® 107
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; four valves per cylinder
Bore x Stroke	3.937 in. x 4.374 in. (100 mm x 111.1 mm)
Displacement	107 cu. in. (1746 cc)
Compression Ratio	10.0:1
Fuel System ³	Electronic Sequential Port Fuel Injection (ESPFI)
Air Cleaner	8.5 in. round, radial bolt cover with washable fiberglass filter media
Exhaust	2-into-2 offset shotgun; catalyst in muffler
Lubrication System	Pressurized, dry-sump with oil cooler

DRIVETRAIN	
Primary Drive	Chain, 34/46 ratio
Final Drive	Belt, 32/66 ratio
Clutch	Mechanical, 10 plate wet, assist & conventional
Transmission	6-Speed Cruise Drive ⁴
Gear Ratios (overall):	U.S.
• 1st	9.311
• 2nd	6.454
• 3rd	4.793
• 4th	3.882
• 5th	3.307
• 6th	2.79

CHASSIS	
Frame	Mild steel, tubular frame; rectangular section backbone; stamped, cast, and forged junctions; MIG welded; aluminum forged fender supports
Swingarm	Mild steel, tubular sections, stamped x-member, forged axle junctions; MIG welded; removable belt spacer
Front Forks	Dual-bending valve 49 mm telescopic with aluminum fork triple clamps; dual rate spring
Rear Shocks	Hidden, free piston, coil-over monoshock; 43mm stroke; cam-style preload adjustment
Wheels ⁴ :	Chrome Steel Laced
• Front	19 in. x 2.5 in. (483 mm x 64 mm)
• Rear	16 in. x 3 in. (406 mm x 76 mm)
Brakes:	4-piston fixed front and 2-piston floating rear
• Caliper Type	Solid, uniform expansion rotors
• Rotor Type (diameter x width):	
• Front	11.8 in. x .2 in. (300 mm x 5 mm)
• Rear	11.5 in. x .23 in. (292 mm x 5.8 mm)
• Anti-Lock Braking System	Optional
Suspension Travel:	
• Front Wheel	5.1 in. (130 mm)
• Rear Wheel	3.4 in. (86 mm)

PERFORMANCE	
Engine Torque ⁵ (per J1349):	
• North America	110 ft. lb. @ 3000 rpm (149 Nm @ 3000 rpm)
Lean Angle (per J1168):	
• Right	28.5°
• Left	28.5°
Fuel Economy ⁶ (Estimated City/Hwy)	47 mpg (5 l/100 km)

ELECTRIC	
Battery (per Battery Council International Rating)	Sealed, maintenance-free, absorbed glass mat (AGM) battery, 12V, 17.5Ah, 310 cca at 0°F
Charging	Three-phase, 42 amp system (390W @ 13V, 1000 rpm, 546W max power @ 13V, 2000 rpm)
Starting	1.6 kW electric with solenoid shift starter motor engagement
Lights (as per country regulation):	
• Headlamp	All LED, low beam, high beam and signature position lamp
• Tail/Stop	Incandescent bullets
• Front Signal Lights	Incandescent bullets
• Indicator Lamps	High beam, turn signals, neutral, low oil pressure, engine diagnostics, ABS (if equipped), security system ⁷ , low battery voltage, low fuel
• Lights, Rear Turn Signals	Incandescent bullets
Gauges	2.14-inch viewable area LCD display with speedometer, gear, odometer, fuel level, clock, trip, range and tachometer indication
Electric Power Outlet	N/A

WARRANTY	
Warranty ⁸	24 months (unlimited mileage)
Service Interval ⁹	First 1000 miles (1600 km), every 5000 miles (8000 km) thereafter

¹ Vehicles depicted may differ from vehicles manufactured and delivered. Specifications and prices listed may differ from specifications and prices of vehicles manufactured and delivered. All product descriptions (including depictions, specifications, dimensions, measurements, ratings and competitive comparisons) are based on available information at the time of publication. Although such descriptions are believed correct, errors and changes can occur and complete accuracy cannot be guaranteed. Harley-Davidson may make changes at any time to prices and specifications, and may change or discontinue models, without notice and without incurring any obligation. Attention: Vehicles in the configurations shown and many of the accessories described in this catalog may not be available for sale or use in some locations. Please check with your dealer for complete product details and the latest information. All models feature 6-speed transmission (VRSC™ models and Sportster® models are 5-speed) and carbon fiber belt final drive; multi-plate clutch with diaphragm spring in oil bath; and 2-year unlimited mileage warranty.

² Measurement reflects 180 lb. (81.7 kg) operator weight.

³ Recommended 91 octane or higher fuel (R+M)/2.

⁴ Standard and optional wheels may vary by country and region.

⁵ Values shown are nominal. Performance may vary by country and region.

⁶ The combined fuel economy numbers were derived using a combination of estimated city and highway values. Fuel economy estimates are derived from US EPA exhaust emission certification data on a sample motorcycle from the corresponding family under ideal laboratory conditions. Your actual fuel economy will vary depending on your personal riding habits, road and driving conditions, vehicle condition and maintenance, tire pressure, vehicle configuration (parts and accessories), and vehicle loading (cargo, rider and passenger weight). Break-in mileage may vary.

⁷ North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.

⁸ See motorcycle Owner's Manual for complete details.

⁹ Inspections of certain systems and components are required at 2,500 mile (4,000 km) intervals. See Owner's Manual for full details.