



2021 FXST SOFTAIL[®] STANDARD

DIMENSIONS

Notes

Length	91.3 in. (2,320 mm)	
Overall Width	34.1 in. (865 mm)	
Overall Height	45.7 in. (1,160 mm)	
Seat Height, Laden	25.8 in. (655 mm)	2
Seat Height, Unladen	26.8 in. (680 mm)	
Ground Clearance	4.9 in. (125 mm)	
Rake (steering head) (deg)	30	
Fork Angle (deg)	30	
Trail	6.2 in. (157 mm)	
Wheelbase	64.2 in. (1,630 mm)	
Tires, Type	Dunlop® Harley-Davidson Series, bias blackwall front and rear	
Tires, Front Model	D401F	
Tires, Front Specification	100/90B19,57H,BW	
Tires, Rear Model	D401T	
Tires, Rear Specification	150/80B16,77H,BW	
Fuel Capacity	3.5 gal. (13.2 l)	
Reserve Fuel Capacity, Fuel Injection (warning light)	1 gal. (3.8 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)	
Coolant Capacity	N/A	
Weight, As Shipped	630 lb. (286 kg)	
Weight, In Running Order	655 lb. (297 kg)	
Gross Vehicle Weight Rating	1,160 lb. (526 kg)	
Gross Axle Weight Rating, Front	450 lb. (204 kg)	
Gross Axle Weight Rating, Rear	730 lb. (331 kg)	
Luggage Capacity -Volume	N/A	

ENGINE

Engine	Milwaukee-Eight® 107
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; four valves per cylinder
Bore	3.937 in. (100 mm)
Stroke	4.374 in. (111 mm)

Displacement	107 cu in (1,746 cc)	
Compression Ratio	10.0:1	
Fuel System	Electronic Sequential Port Fuel Injection (ESPFI)	3
Air Cleaner	8.5 in. round, center bolt cover with washable fiberglass filter media	
Exhaust	2-into-2 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®	
Gear Ratios (overall) 1st	9.311	
Gear Ratios (overall) 2nd	6.454	
Gear Ratios (overall) 3rd	4.793	
Gear Ratios (overall) 4th	3.882	
Gear Ratios (overall) 5th	3.307	
Gear Ratios (overall) 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 Fork	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, Front Type	Chrome Steel Laced	4
Wheels, Front Width	2.5 in. (64 mm)	
Wheels, Front Height	19 in. (483 mm)	
Wheels, Rear Type	Chrome Steel Laced	4
Wheels, Rear Width	3 in. (76 mm)	
Wheels, Rear Height	16 in. (406 mm)	
Brakes, Caliper Type	4-piston fixed front and 2-piston floating rear	
Brakes, Rotor Type	Solid, uniform expansion rotors	
Brakes, Front Diameter	11.8 in. (300 mm)	
Brakes, Front Thickness	0.2 in. (5 mm)	
Brakes, Front is dual	No	
Brakes, Rear Diameter	11.5 in. (292 mm)	
Brakes, Rear Thickness	0.23 in. (5.8 mm)	
Brakes, Anti-Lock Braking System (ABS)	Optional	
Suspension Travel, Front	5.1 in. (130 mm)	
Suspension Travel, Rear	3.4 in. (86 mm)	

PERFORMANCE

Engine Torque Testing Method	J1349
------------------------------	-------

Engine Torque	110 ft-lb (149 Nm)	5
Engine Torque (rpm)	3,000	
Lean Angle Testing Method	J1168	
Lean Angle, Right (deg.)	28.5	
Lean Angle, Left (deg.)	28.5	
Fuel Economy Testing Method	Estimated City/Hwy	
Fuel Economy	47 mpg (5 l/100 km)	6

ELECTRIC

Battery	Sealed, maintenance-free, absorbed glass mat (AGM) battery, 12V, 17.5Ah, 310 CCA at 0°F	
Charging	Three-phase, 42 Amp system (390 Watts @ 13 Volts, 1000 rpm, 546 Watts max power @ 13 Volts, 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 & Signature Position Lamp	
Lights (as per country regulation), Tail/Stop	Incandescent Bullets	
Lights (as per country regulation), Front Signal Lights	Incandescent Bullets	
Lights (as per country regulation), Indicator Lamps	High beam, turn signals, neutral, low oil pressure, engine diagnostics, ABS (if equipped), security, low battery voltage, low fuel	7
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	
Auxiliary Lamps	N/A	
Electric Power Outlet	N/A	
GPS System	N/A	
Reverse Gear	N/A	

WARRANTY AND SERVICE

Warranty	24 months (unlimited mileage)	8
Service Interval	First 1,000 miles (1,600 km), every 5,000 miles (8,000 km) thereafter	9

FOOTNOTES

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.