

# MODEL YEAR 2023 | LOW RIDER® ST

Dimensions	FXLRST Low Rider® ST	Notes
Length	93.1 in. (2,365 mm)	
Overall Width	34.3 in. (870 mm)	
Overall Height	51.2 in. (1,300 mm)	
Seat Height, Laden	27 in. (686 mm)	2
Seat Height, Unladen	28.3 in. (720 mm)	
Static Ground Clearance	5.9 in. (150 mm)	
Rake (steering head) (deg)	28	
Fork Angle (deg)	28	
Trail	5.7 in. (145 mm)	
Wheelbase	63.6 in. (1,615 mm)	
Tires, Type	Michelin® Scorcher® "31" front and rear	
Tires, Front Model	Scorcher™ "31"	
Tires, Front Specification	110/90B19,62H,BW	
Tires, Rear Model	Scorcher™ "31"	
Tires, Rear Specification	180/70B16,77H,BW	
Fuel Capacity	5 gal. (18.9 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	694 lb. (315 kg)	
Weight, In Running Order	721 lb. (327 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	1.9 cu ft (0.05 m3)	

<b>Engine</b>	<b>FXLRST Low Rider® ST</b>	<b>Notes</b>
Engine	Milwaukee-Eight® 117	
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; four valves per cylinder	
Bore	4.075 in. (103.5 mm)	
Stroke	4.5 in. (114.3 mm)	
Displacement	117 cu in (1,923 cc)	
Compression Ratio	10.2:1	
Fuel System	Electronic Sequential Port Fuel Injection (ESPFI)	3
Air Cleaner	Heavy Breather intake with synthetic media, washable exposed element	
Exhaust	2-into-2 offset shotgun; catalyst in muffler	
Lubrication System	Pressurized, dry-sump with oil cooler	

<b>Drivetrain</b>	<b>FXLRST Low Rider® ST</b>	<b>Notes</b>
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	9.311	
Gear Ratios	6.454	
Gear Ratios	4.793	
Gear Ratios	3.882	
Gear Ratios	3.307	
Gear Ratios	2.79	

<b>Chassis</b>	<b>FXLRST Low Rider® ST</b>	<b>Notes</b>
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	Single cartridge 43 mm inverted with aluminum fork triple clamps; single rate spring	
Rear Shocks	Hidden, free piston, coil-over monoshock; 56 mm stroke; hydraulic preload adjustment	
Wheels, Optional Style Type	N/A	4
Wheels, Front Type	Dark bronze, Radiate cast aluminum wheel	4
Wheels, Front Width	2.5 in. (64 mm)	
Wheels, Front Height	19 in. (483 mm)	
Wheels, Rear Type	Dark bronze, Radiate cast aluminum wheel	4
Wheels, Rear Width	5 in. (127 mm)	
Wheels, Rear Height	16 in. (406 mm)	
Brakes, Caliper Type	4-piston fixed front and 2-piston floating rear	
Brakes, Rotor Type	Front and rear black, Split 7-spoke floating rotors	
Brakes, Front Diameter	11.8 in. (300 mm)	
Brakes, Front Thickness	0.2 in. (5.1 mm)	
Brakes, Front is dual	Yes	
Brakes, Rear Diameter	11.5 in. (292 mm)	
Brakes, Rear Thickness	0.23 in. (5.8 mm)	
Brakes, Anti-Lock Braking System (ABS)	Standard	
Suspension Travel, Front	5 in. (130 mm)	
Suspension Travel, Rear	4.4 in. (112 mm)	

<b>Performance</b>	<b>FXLRST Low Rider® ST</b>	<b>Notes</b>
Engine Torque Testing Method	J1349	
Engine Torque	125 ft-lb (169 Nm)	5
Engine Torque	3,500	
Power	103 HP / 77 kW @ 4750 rpm	
Lean Angle Testing Method	J1168	
Lean Angle, Right (deg.)	31.3	
Lean Angle, Left (deg.)	31.3	
Fuel Economy Testing Method	Estimated City/Hwy	
Fuel Economy	47 mpg (5 l/100 km)	6
CO <sup>2</sup> Emissions Testing Method	N/A	
CO <sup>2</sup> Emissions	N/A	

<b>Electric</b>	<b>FXLRST Low Rider® ST</b>	<b>Notes</b>
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 and signature position lamp	
Lights (as per country regulation), Tail/Stop	LED Zeppelin tail lamp	
Lights (as per country regulation), Front Signal Lights	Incandescent bullet turn signals	
Lights, Rear Turn Signals	Incandescent bullet turn signals	
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	USB A-type; output 5V at 2.4A	
GPS System	N/A	
Reverse Gear	N/A	

<b>Warranty And Service</b>	<b>FXLRST Low Rider® ST</b>	<b>Notes</b>
Warranty	24 months (unlimited mileage)	7
Service Interval	First 1,000 miles (1,600 km), every 5,000 miles (8,000 km) thereafter	8

<b>Footnotes</b>	<b>FXLRST Low Rider® ST</b>	
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	See motorcycle owner's manual for complete details.	
8	Inspections of certain systems and components are required at 2,500 mile (4,000 km) intervals. See Owner's Manual for full details.	

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