



SOFTAIL[®] DELUXE

FLSTN

Accessible and Powerful, Wrapped in Pure Nostalgic Beauty





SOFTAIL® DELUXE

MODEL OVERVIEW **FLSTN**

NEW IN 2017

- Battery tender harness
- Paint color options including Custom paint and Hard Candy Custom™ color

MODEL UNIQUE FEATURES

Style

- Steel Laced wheels, with Chrome Aluminum Profile Laced wheel option, 16-inch front and rear
- Unique tank and fender medallions with “Hologram” effect and black paint fill
- Wide whitewall tires
- Full-coverage front fender with chrome accents
- Full-coverage rear fender with chrome supports
- Chrome nostalgic 7-inch ball headlamp
- Chrome nostalgic tank console
- Easy-reach chrome pullback riser
- Low seat with chrome grab rails
- Chrome luggage rack integrated into rear passenger pillion
- Chrome horseshoe oil tank with chrome external oil lines
- Black powder-coated engine with chrome treatment covers
- Air cleaner cover with High Output 103 badging
- Chrome, straight over/under shotgun exhaust with dual tapered mufflers
- Unique footboards
- Tombstone taillight
- Hardtail styling with hidden horizontal rear shocks

Fit

- Two-piece, two-up Softail® classic removable seat pillion with chrome grab rail
 - Seat features collapsing sides for narrower-profile riders
- Stainless steel, low-rise handlebar
- Unique, full-length rider footboards with heel/toe shift levers
- Standard passenger footpegs

Function

- Cruise control, standard
- Electronic throttle control system
- Easy reach side stand

MODEL UNIQUE FEATURES *(continued)*

Function *(continued)*

- Tank-mounted electronic speedometer with odometer, time-of-day clock on odometer, dual tripmeter, RPM/gear display, fuel gauge with low-fuel warning light and countdown feature, low-oil pressure indicator light, engine diagnostics readout, LED indicator lights, 6-speed indicator light
- Self-canceling turn signal controls
- Start, engine cutoff, left/right turn signals, horn, hi/low beam, odometer trip switch and hazard warning hand controls
- Barrel key, tank console-mounted ignition; fork lock common with ignition key
- Electric power accessory connector under seat
- Chrome luggage rack integrated into rear passenger pillion

Performance

- Rigid-mounted, Air-cooled, 1690 cc High Output Twin Cam 103B™ counter-balanced engine with Automatic Compression Release (ACR)
- 6-Speed Cruise Drive® transmission
- Electronic Sequential Port Fuel Injection (ESPFI) with heated O2 sensors
- Anti-lock Braking System (ABS)¹, standard

AVAILABLE OPTIONS

- Tubeless Chrome Aluminum Profile Laced wheels
- Smart Security System² with proximity-based, hands-free security fob (factory installed option)
- Engine Idle Temperature Management Strategy (EITMS) (dealer-activated)

¹ Harley-Davidson's independent Anti-lock Braking System is designed to help you maintain control during braking events, especially those that happen in less than optimum conditions. Engineering and styling worked together to make sure the system is not only designed and carefully tested to work superbly, but that it is also engineered not to interfere with style. ABS is standard on all 2017 Softail® motorcycles except the Softail Slim® model, where it remains an option.

² North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.



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MODEL SPECIFICATIONS¹ FLSTN

DIMENSIONS

Length	94.9 in. (2410 mm)
Overall Width	37.2 in. (945 mm)
Overall Height	43.3 in. (1110 mm)
Seat Height:	
• Laden ²	24.5 in. (622 mm)
• Unladen	26.4 in. (670 mm)
Ground Clearance	4.3 in. (110 mm)
Rake (steering head)	32.1°
Fork Angle	32°
Trail	5.8 in. (147 mm)
Wheelbase	64.4 in. (1635 mm)
Tires (Dunlop® Harley-Davidson® Series, wide whitewall):	
• Front – D402F	MT90B16 72H
• Rear – D402	MU85B16 77H
Fuel Capacity	5 gal. (18.9 L)
(warning light at approximately 1.0 gal.)	
Oil Capacity (w/filter)	3.5 qt. (3.3 L)
Transmission Capacity	1 qt. (.95 L)
Primary Chain	1 qt. (.95 L)
Case Capacity	
Weight:	
• As Shipped	701 lb. (318 kg)
• In Running Order	730 lb. (331 kg)
• Gross Vehicle	1160 lb. (526 kg)
Weight Rating	
• Gross Axle	
Weight Rating:	
• Front	430 lb. (195 kg)
• Rear	730 lb. (331 kg)

ENGINE

Engine	Air-Cooled, High Output Twin Cam 103B™
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; two valves per cylinder
Bore x Stroke	3.87 in. x 4.374 in. (98.4 mm x 111.1 mm)
Displacement	103.1 cu. in. (1690 cc)
Compression Ratio	9.6:1
Fuel System ³	Electronic Sequential Port Fuel Injection (ESPM)
Air Cleaner	Paper, washable
Lubrication System	Pressurized, dry-sump

DRIVETRAIN

Primary Drive	Chain, 34/46 ratio
Final Drive	Belt, 32/66 ratio
Clutch	Multi-plate, wet
Transmission	6-Speed Cruise Drive®
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; forged fender supports; MIG welded
Swingarm	Mild steel, round tube sections, forged junctions; MIG welded
Front Forks	41.3 mm telescopic, "beer can" covers
Rear Shocks	Hidden, horizontal-mounted, coil-over
Wheels ⁴ (Chrome Aluminum Profile Laced option):	Steel Laced
• Front	16 in. x 3 in. (406 mm x 76 mm)
• Rear	16 in. x 3 in. (406 mm x 76 mm)
Brakes:	
• Caliper Type	4-piston front and 2-piston rear
• Rotor Type	Solid, uniform expansion rotors
(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	Standard
Suspension Travel:	
• Front Wheel	5.1 in. (130 mm)
• Rear Wheel	3.4 in. (86 mm)

PERFORMANCE

Engine Torque ⁵ (per J1349):	
• North America	100.3 ft. lb. @ 3000 RPM (136 Nm @ 3000 RPM)
Lean Angle (per J1168):	
• Right	25.8°
• Left	26.7°
Fuel Economy ⁶ (Combined City/Hwy)	42 mpg (5.6 L/100 km)

ELECTRIC

Battery (per Battery Council International Rating)	Sealed, maintenance-free, 12V, 19-amp/hour, 315 cca
Charging	Three-phase, 38-amp system (439W @ 13V, 2000 RPM, 489W max power @ 13V)
Starting	1.2 kW electric with solenoid shift starter motor engagement
Lights (as per country regulation):	
• Headlamp (Quartz Halogen)	55-watt low beam, 60-watt high beam
• Tail/Stop Lights	Incandescent
• Turn Signal Lights	Incandescent self-cancelling
• Indicator Lamps	High beam, neutral, low oil pressure, turn signals, engine diagnostics, security system ⁷ (optional), 6-speed, low fuel warning, low battery, ABS, cruise control
• Auxiliary Lamps	Driving lights
• Rear Turn Signals	Incandescent self-cancelling Lights

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 (V-Rod® 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.



SOFTAIL® DELUXE

COLORS/CALLOUTS FLSTN

SOLIDS	PINSTRIPING
Vivid Black	Med. Silver <i>(inside and outside)</i>
Superior Blue <i>(shown)</i>	Blue <i>(inside)</i> , Med. Silver <i>(outside)</i>
Velocity Red Sunglo	Med. Red <i>(inside)</i> , Pale Gold <i>(outside)</i>

TWO-TONES	PINSTRIPING
Crushed Ice Pearl/Frosted Teal Pearl	Gray <i>(inside)</i> , Teal <i>(outside)</i>

CUSTOM	PINSTRIPING
NEW Bonneville Blue/Fathom Blue	Hamilton Gold <i>(inside)</i> , Dk. Blue <i>(outside)</i>

HARD CANDY CUSTOM™ COLORS ¹
NEW Hard Candy Mystic Purple Flake

* Availability of colors may vary from dealer to dealer, and is subject to change without notice.

¹ Limited availability. See your dealer for details and available colors.

