

# 2016 SOFTAIL SLIM<sup>®</sup> FLS

Classic, Raw Bobber Style with Contemporary Power



**Model shown in HDI configuration.**

The vehicle models, configurations, options, and accessories pictured or otherwise described in this reference guide may not be available in all countries.



**Markets:** APC, AUS, MEX, ENG, HDI, JPN

# SOFTAIL SLIM®

FLS

## MODEL OVERVIEW



### MODEL OVERVIEW

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The Softail Slim® model delivers a healthy balance of Harley-Davidson past and present. It merges raw, minimalistic 1940s bobber styling with up-to-date, old-school fat elements and contemporary power. Its blacked-out presence, retro features, and low-slung seat express that unmistakable old-iron attitude.

### NEW IN 2016

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- High Output Twin Cam 103B™ engine
- Newly designed air cleaner cover with High Output 103 badging
- Electronic throttle control system for enabled cruise control
- Paint color options

### MODEL UNIQUE FEATURES

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#### Style

- Fat, chromed front forks
- Unique, retro style, internally-wired Hollywood handlebar
- Gloss black headlamp with chrome trim ring and gloss black nacelle
- Gloss black cat-eye console with retro speedometer face
- Gloss black retro round air cleaner
- Gloss black horseshoe oil tank
- Traditional Softail® Fat Bob® fuel tank with Bar & Shield™ medallion
- Minimal leather fuel tank center strip

### MODEL UNIQUE FEATURES *(continued)*

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#### Style *(continued)*

- Simple blacked-out engine
- Low solo seat
- Retro half-moon footboards
- Narrow profile 144 mm rear tire
- Black Steel Laced wheels
- Chopped rear fender with integrated stop/turn/tail lights and side-mounted license plate
- Raw finishes throughout

#### Fit

- Low-slung solo seat at 650 mm
- Hollywood handlebar
- Half-moon footboards

#### Function

- Electronic throttle control
- Easy reach side stand and easy liftoff
- 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 with flash-to-pass, odometer display toggle/trip switch and hazard lights hand controls
- Barrel key, tank console-mounted ignition; fork lock common with ignition key
- Electric power accessory connector under seat

### MODEL UNIQUE FEATURES *(continued)*

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#### 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

### AVAILABLE OPTIONS

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- Electronic cruise control (factory installed option)
- Anti-lock Braking System (ABS)<sup>1</sup> (factory installed option)
- Smart Security System<sup>2</sup> with proximity-based, hands-free security fob (factory installed option)
- Engine Idle Temperature Management Strategy (EITMS) (dealer-activated)

<sup>1</sup> 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 2016 Softail® motorcycles.

<sup>2</sup> North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.

# SOFTAIL SLIM<sup>®</sup>

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## MODEL SPECIFICATIONS<sup>1</sup>



Specifications apply to all available markets unless noted.

DIMENSIONS	
Length	<b>2350 mm</b> (92.5 in.), <b>2345 mm</b> (92.3 in.) (JPN, MEX)
Overall Width	<b>990 mm</b> (39 in.), <b>970 mm</b> (38.2 in.) (JPN, MEX)
Overall Height	<b>1100 mm</b> (43.3 in.), <b>1080 mm</b> (42.5 in.) (JPN, MEX)
Seat Height (unladen)	<b>650 mm</b> (25.6 in.), <b>665 mm</b> (26.2 in.) (MEX)
Ground Clearance	<b>115 mm</b> (4.5 in.), <b>125 mm</b> (4.9 in.) (JPN, MEX)
Rake (steering head)	32.1°
Fork Angle	31°
Trail	<b>147 mm</b> (5.8 in.)
Wheelbase	<b>1635 mm</b> (64.4 in.)
Tires (Dunlop <sup>®</sup> Harley-Davidson <sup>®</sup> Series, bias blackwall front and rear):	
• Front – D402F	MT90B16 72H
• Rear – D402	MU85B16 77H
Fuel Capacity	<b>18.9 L</b> (5 gal.) (warning light at approximately 3.4 L)
Oil Capacity (w/filter)	<b>3.3 L</b> (3.5 qts.)
Transmission Capacity	<b>.95 L</b> (1 qt.)
Primary Chain Case Capacity	<b>.95 L</b> (1 qt.)
Weight:	
• As Shipped	<b>308 kg</b> (679 lbs.), <b>307 kg</b> (677 lbs.) (MEX)
• In Running Order	<b>321 kg</b> (708 lbs.), <b>320 kg</b> (706 lbs.) (MEX)
• Gross Vehicle Weight Rating	<b>526 kg</b> (1160 lbs.)
• Gross Axle Weight Rating:	
• Front	<b>195 kg</b> (430 lbs.)
• Rear	<b>331 kg</b> (730 lbs.)
ENGINE	
Engine	Air-Cooled, High Output Twin Cam 103B <sup>TM</sup>
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; two valves per cylinder
Bore x Stroke	<b>98.4 mm x 111.1 mm</b> (3.87 in. x 4.374 in.)
Displacement	<b>1690 cc</b> (103.1 cu. in.), <b>1689 cc</b> (103 cu. in.) (JPN)
Compression Ratio	9.6:1
Fuel System <sup>2</sup>	Electronic Sequential Port Fuel Injection (ESPFI)
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 <sup>®</sup>
Gear Ratios (overall):	
• 1st	<b>9.311</b>
• 2nd	<b>6.454</b>
• 3rd	<b>4.793</b>
• 4th	<b>3.882</b>
• 5th	<b>3.307</b>
• 6th	<b>2.79</b>

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 <sup>3</sup> :	Black Steel Laced
• Front	<b>16 in. x 3 in.</b> (406 mm x 76 mm)
• Rear	<b>16 in. x 3 in.</b> (406 mm x 76 mm)
Brakes:	
• Caliper Type	4-piston front and 2-piston rear
• Rotor Type (diameter x width):	Solid, uniform expansion rotors
• Front	<b>300 mm x 5 mm</b> (11.8 in. x 0.2 in.)
• Rear	<b>292 mm x 5.8 mm</b> (11.5 in. x 0.23 in.)
• Anti-lock Braking System	Standard Optional (MEX)
Suspension Travel:	
• Front Wheel	<b>130 mm</b> (5.1 in.)
• Rear Wheel	<b>86 mm</b> (3.4 in.), <b>112 mm</b> (4.4 in.) (APC, AUS)

PERFORMANCE	
Engine Torque <sup>4</sup> :	
• HDI (per EEC/95/1)	<b>133 Nm</b> (98.1 ft-lb) @ <b>3250 RPM</b>
• APC (per EEC/95/1)	<b>122 Nm</b> (90 ft-lb) @ <b>3000 RPM</b>
• AUS (per EEC/95/1)	<b>135 Nm</b> (99.6 ft-lb) @ <b>3250 RPM</b>
• MEX (per J1349)	<b>136 Nm</b> (100.3 ft-lb) @ <b>3000 RPM</b>
• JPN (per EEC/95/1)	<b>122 Nm</b> (90 ft-lb) @ <b>2750 RPM</b>
Lean Angle (per J1168):	
• Right	24°
• Left	24.9°

PERFORMANCE (continued)	
Fuel Economy <sup>5</sup> (EPA urban/highway test)	<b>5.6 L/100 km</b> (42 mpg)

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	LED combination Stop/Tail/Turn (HDI, APC, MEX)
• Front Signal Lights	Incandescent self-cancelling (HDI, APC, MEX)
• Indicator Lamps	High beam, neutral, low oil pressure, turn signals, engine diagnostics, security system <sup>6</sup> (AUS) (optional - HDI, APC, ENG, JPN, MEX), 6-speed, low fuel warning, low battery, ABS (HDI, APC, AUS, ENG, JPN) (optional - MEX)
• Lights, Rear Turn Signals	Incandescent self-cancelling (HDI, AUS, ENG, JPN, MEX), LED self-cancelling (APC)

WARRANTY	
Warranty	<b>24 months</b> (unlimited mileage)
Service Interval <sup>7</sup>	<b>First 1600 km</b> (1000 miles), every <b>8000 km</b> (5000 miles) thereafter

<sup>1</sup> 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<sup>®</sup> models and Sportster<sup>®</sup> 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.

<sup>2</sup> Recommended 91 octane or higher fuel (R+M)/2.

<sup>3</sup> Standard and optional wheels may vary by country and region.

<sup>4</sup> Values shown are nominal. Performance may vary by country and region.

<sup>5</sup> 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.

<sup>6</sup> North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.

<sup>7</sup> Inspections of certain systems and components are required at 4000 km (2500 mile) intervals. See Owner's Manual for full details.

# SOFTAIL SLIM<sup>®</sup>

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COLORS/CALLOUTS



## SOLIDS

- Vivid Black
- Charcoal Pearl
- Black Denim
- NEW** Velocity Red Sunglo
- G>P** Olive Gold *|| ahp g\**

## TWO-TONES

- Charcoal Satin/Vivid Black Satin

## PINSTRIPING

- Gray *(inside and outside)*

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

Model shown in Domestic configuration.

