2016

FAT BOY®

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The Original Fat Custom Icon – Often Imitated But Never Duplicated

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, BRZ, MEX, ENG, HDI, IND, JPN

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MODEL OVERVIEW

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The original fat custom and the very definition of a heavyweight bike, the Fat Boy® model is big, beefy, and rolls with a stature that's second to none. This original turns heads wherever it rolls with its fat forks, fat tire, a fat fender, and fat bars. The legendary bike keeps the hardtail chopper spirit alive and stronger than ever.

NEW IN 2016

- 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 including Custom colors

MODEL UNIQUE FEATURES

Style

- Mirror Chrome Aluminum Bullet Hole Disc wheels, 17-inch front and rear
- Custom trimmed front fender
- Chrome front fork nacelle
- Chrome nostalgic 177.8 mm ball headlamp
- Giant, bare-knuckle chrome riser
- Fat Bob® fuel tank with nostalgic chrome console
- Chrome bullet-studded seat valance and tank strap
- Black powder-coated engine with chrome treatment covers
- Chrome over/under shotgun exhaust with dual mufflers
- Chrome horseshoe oil tank with chrome external oil lines
- Hardtail styling with hidden horizontal rear shocks
- Beefy, 200 mm wide rear tire

MODEL UNIQUE FEATURES *(continued)*

Fit

- Low, narrow-cut seat
- Two-piece, two-up Softail® classic removable seat pillion
- Low-profile, ergonomic 31.75 mm internally-wired handlebar
- Full-length rider footboards with heel/toe shift levers
- Standard passenger footpegs

Function

- Electronic throttle control
- 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

MODEL UNIQUE FEATURES *(continued)*

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

- Electronic cruise control (factory installed option)
- Smart Security System[2] 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 2016 Softail® motorcycles.

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

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MODEL SPECIFICATIONS[1]

Specifications apply to all available markets unless noted.

DIMENSIONS

Length	**2396 mm** (94.3 in.)
Overall Width	**990 mm** (39 in.)
Overall Height	**1095 mm** (43.1 in.)
Seat Height *(unladen)*	**690 mm** (27.2 in.)
Ground Clearance	**130 mm** (5.1 in.)
Rake *(steering head)*	31°
Fork Angle	31°
Trail	**147 mm** (5.8 in.)
Wheelbase	**1635 mm** (64.4 in.)
Tires *(Dunlop® Harley-Davidson® Series, radial blackwall front and rear)*:	
• Front – D408F	140/75R17 67V
• Rear – D407	200/55R17 78V
Fuel Capacity *(warning light at approximately 3.8 L)*	**18.9 L** (5 gal.)
Oil Capacity *(w/filter)*	**3.3 L** (3.5 qts.)
Transmission Capacity	**.95 L** (1 qt.)
Primary Chain Case Capacity	**.95 L** (1 qt.)
Weight:	
• As Shipped	**320 kg** (705 lbs.)
• In Running Order	**333 kg** (734 lbs.)
• Gross Vehicle Weight Rating	**526 kg** (1160 lbs.)
• Gross Axle Weight Rating:	
• Front	**195 kg** (430 lbs.)
• Rear	**331 kg** (730 lbs.)

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	**98.4 mm x 111.1 mm** (3.87 in. x 4.374 in.)
Displacement	**1690 cc** (103.1 cu. in.)
Compression Ratio	9.6:1
Fuel System[2]	Electronic Sequential Port Fuel Injection (ESPFI)
Air Cleaner	Paper, washable
Lubrication System	Pressurised, 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)*:	
• 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[3]:	Mirror Chrome Aluminum Bullet Hole Disc
• Front	**17 in. x 3.5 in.** (432 mm x 89 mm)
• Rear	**17 in. x 6 in.** (432 mm x 152 mm)
Brakes:	
• Caliper Type	4-piston front and 2-piston rear
• Rotor Type *(diameter x width)*:	Split 7-spoke floating rotor *(front)*, Uniform expansion solid rotor *(rear)*
• Front	**300 mm x 5 mm** (11.8 in. x 0.2 in.)
• Rear	**292 mm x 5.8 mm** (11.5 in. x 0.23 in.)
• Anti-lock Braking System	Standard
Suspension Travel:	
• Front Wheel	**130 mm** (5.1 in.)
• Rear Wheel	**112 mm** (4.4 in.)

PERFORMANCE

Engine Torque[4]:	
• AUS *(per EEC/95/1)*	**135 Nm** (99.6 ft-lb) **@ 3250 RPM**
Lean Angle *(per J1168)*:	
• Right	26.2°
• Left	27°
Fuel Economy[5] *(EPA urban/highway test)*	**5.6 L/100 km** (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	5W/21W
• Front Signal Lights	N/A
• Indicator Lamps	High beam, neutral, low oil pressure, turn signals, engine diagnostics, security system[6], 6-speed, low fuel warning, low battery, ABS
• Rear Turn Signal Lights	Incandescent self-cancelling

WARRANTY

Warranty	24 months *(unlimited mileage)*
Service Interval[7]	First **1600 km** (1000 miles), every **8000 km** (5000 miles) 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] Recommended 91 octane or higher fuel (R+M)/2.

[3] Standard and optional wheels may vary by country and region.

[4] Values shown are nominal. Performance may vary by country and region.

[5] 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.

[6] North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.

[7] Inspections of certain systems and components are required at 4000 km (2500 mile) intervals. See Owner’s Manual for full details.

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COLORS/CALLOUTS

SOLIDS	PINSTRIPING
Vivid Black	Med. Silver *(inside and outside)*
Charcoal Pearl *(shown)*	Black *(inside and outside)*
NEW Velocity Red Sunglo	Med. Red *(inside)*, Pale Gold *(outside)*

TWO-TONES	PINSTRIPING
NEW Billet Silver/Vivid Black	Burgundy *(inside)*, Charcoal Metallic *(outside)*

CUSTOM	PINSTRIPING
NEW Purple Fire/Blackberry Smoke	Proper Purple *(inside)*, Charcoal Metallic *(outside)*
NEW Cosmic Blue Pearl	

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

Model shown in Domestic configuration.

