2016 CVO™ LIMITED

FLHTKSE

Shown in Carbon Dust and Electric Red Pearl



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, JPN

2016 CVO™ LIMITED
FLHTKSE
MODEL OVERVIEW

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The CVO™ Limited model is for road enthusiasts who want it all. All the quality. All the legacy. All the love. This premium motorcycle is the pinnacle of ultimate custom comfort, luxury, and style, and features the entire range of Project RUSHMORE enhancements. It truly raises the bar on comfort, convenience, power, style, infotainment, and confidence.

NEW IN 2016

- Tire Pressure Monitoring System
- LED front and rear turn signals
- Integrated fob combines security and power locking
- Reduced-width primary housing and dery cover
- Color-matched Tour-Pak® case lightning bezels
- Color-matched Splitstream fairing vents

MODEL UNIQUE FEATURES

Style

- New high-end custom paint scheme with hand-applied graphics in three color combinations
  - Palladium Silver and Phantom Blue
  - Carbon Dust and Electric Red Pearl
  - Charcoal Slate and Palladium Silver
- New color-matched Tour-Pak® case lighting bezel
- Newly styled rider and passenger seat covers
- New TPMS Mirror Chrome Slicer Custom wheels with easy-access, 90-degree valve stem; 17-inch front; 16-inch rear
- Airflow Collection: Rider footboard insert and rider pan, Passenger footboard inserts, Shifter pegs, Brake pedal and cover, Highway pegs, Heated hand grips with gnurled inserts, Shifter lever arms
- Streamlined, low-profile front fender
- Dual front floating open rotors
- Color-matched inner fairing with carbon fiber fairing cap
- Color-matched rear fender filler strips, saddlebag hinges
- Granite powder-coated engine
- Smoked LED CVO™ wraparound lighting
- Chrome tank console with custom CB pod carbon fiber CB pod insert
- Chrome billet timer cover and muffler end caps (chrome with black spears)
- Chrome voltage regulator, dipstick, internally wired handlebar, mirrors

MODEL UNIQUE FEATURES *(continued)*

Fit

- New reconfigured foam in seat nose for improved comfort
- Shotgun seat with ample passenger room and springboard style suspension system
- Ergonomically optimised backrest and armrest for greater comfort
- Saddlebag guard provides more passenger legroom
- Full-length rider footboards and chrome supports
- Chrome billet-style extended heel/toe shift lever
- Height-adjustable passenger footboards with chrome supports

Function

- Wind-tunnel tested Batwing fairing with Splitstream vent and short windshield for reduced head buffeting
- Reflex™ Linked Brakes with ABS[1] featuring Brembo® 4-piston front and rear calipers with CVO™-specific caliper inserts
- 49 mm telescopic front forks for stiffer front end
- Daymaker™ LED headlight and Daymaker™ LED fog lamps
- LED-lit hand control switches, backlit dash switch
- Ergonomic hand controls with intuitive design and tactile feel. Includes odometer trigger switch, trip A, trip B, clock, range to empty; info button; hazard warning switch; two Joysticks that control all audio functions
- Large, easy-to-read gauges, wide numbers, large telltale indicators
- One-Touch fuel door
- Rear LED stop/turn/tail lights
- Boom!™ Box 6.5GT audio system with GPS and touchscreen with 3-D landmarks, 3-D buildings, 3 map updates/5 years, XM with traffic/weather (free for 3 months)[2]
- AM/FM/WB and CB[3] antennae
- Jukebox media compartment with USB connection and One-Touch access door
- Saddlebags with chrome One-Touch design latch
- Tour-Pak® case with One-Touch latch and integrated lock, retractable lid tether, map and tool pouch, premium hinges, bass port rear speakers. Also features: 12-volt, 15 amp power supply with spring-loaded cap, Premium integral Tour-Pak® luggage rack, CVO™ Carryout Tour-Pak® and saddlebag liners, Power Locking System

MODEL UNIQUE FEATURES *(continued)*

Function *(continued)*

- Dual control heated set with perforated leather pattern and heated handgrips with adjustable six-setting heat control
- Mid-frame air deflectors and adjustable fairing-mounted wind deflectors
- Electronic throttle control featuring electronic cruise control with set, resume, accelerate and decelerate
- Dunlop® 180 mm “multi-tread” rear tire
- Air-adjustable full travel air ride rear suspension
- Chrome billet engine guard footpeg mounting kit
- 6-gallon fuel tank for extended range
- Power port in fairing
- Keyless ignition
- Automatic Bike Lock
- H-D® Factory Security System[4] with siren

Performance

- 1801 cc, Rubber-mounted, Twin-Cooled™ Twin Cam 110™ engine with Automatic Compression Release (ACR)
- Electronic Sequential Port Fuel Injection (ESPFI) with heated O2 sensors
- 6-Speed Cruise Drive® transmission with Isolated Drive System (IDS) for smooth power delivery
- Hydraulic clutch; Assist & Slip
- Ventilator Intake with carbon fiber Screamin’ Eagle® 110 insert and rain sock
- Rider-initiated Engine Idle Temperature Management Strategy (EITMS)
- Chrome dual exhaust with 101.6 mm touring mufflers and touring muffler shields

ACCESSORIES

- Indoor/outdoor motorcycle storage cover

[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 2015 CVO™ models.

[2] Specific infotainment system features and configurations may vary by region and country.

[3] CB prohibited by law in some countries.

[4] 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	**2600 mm** (102.4 in.)
Overall Width	**1090 mm** (42.9 in.)
Overall Height	**1440 mm** (56.7 in.)
Seat Height *(unladen)*	**740 mm** (29.1 in.)
Ground Clearance	**135 mm** (5.3 in.)
Rake *(steering head)*	26°
Fork Angle	29.25°
Trail	**170 mm** (6.7 in.)
Wheelbase	**1625 mm** (64 in.)
Tires *(Dunlop® Harley-Davidson® Series, bias blackwall front and rear)*:	
• Front – D408F	BW 130/80B17 65H
• Rear – D407T	BW 180/65B16 81H
Fuel Capacity *(warning light at approximately 3.8 L)*	**22.7 L** (6 gal.)
Oil Capacity *(w/filter)*	**3.8 L** (4 qts.)
Transmission Capacity	**.95 L** (1 qt.)
Primary Chain Case Capacity	**1.3 L** (1.4 qt.)
Coolant Capacity	**1.04 L** (1.1 qt.)
Weight:	
• As Shipped	**416 kg** (917 lbs.)
• In Running Order	**433 kg** (955 lbs.)
• Gross Vehicle Weight Rating	**617 kg** (1360 lbs.)
• Gross Axle Weight Rating:	
• Front	**227 kg** (500 lbs.)
• Rear	**420 kg** (927 lbs.)
• Luggage Capacity:	
• Volume	**0.132 m³** (4.7 cu. ft.)

ENGINE

Engine	Twin-Cooled™ Twin Cam 110™
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; two valves per cylinder
Bore x Stroke	**101.6 mm x 111.1 mm** (4 in. x 4.374 in.)
Displacement	**1801 cc** (110 cu. in.)
Compression Ratio	9.2:1
Fuel System[2]	Electronic Sequential Port Fuel Injection (ESPFI)
Air Cleaner	Ventilator intake with chrome cover, fiberglass media, washable exposed element with rain sock
Lubrication System	Pressurised, dry-sump

DRIVETRAIN

Primary Drive	Chain, 34/46 ratio
Final Drive	Belt, 32/68 ratio
Clutch	Hydraulically actuated multi-plate, wet Assist & Slip
Transmission	6-Speed Cruise Drive®
Gear Ratios *(overall)*:	
• 1st	**9.593**
• 2nd	**6.65**
• 3rd	**4.938**
• 4th	**4**
• 5th	**3.407**
• 6th	**2.875**

CHASSIS

Frame	Mild steel; tubular frame; two-piece stamped and welded backbone; cast and forged junctions; twin downtubes; bolt-on rear frame with forged fender supports; MIG welded
Swingarm	Mild steel; two-piece drawn and welded section; forged junctions; MIG welded
Front Forks	49 mm telescopic, triple-circuit damping
Rear Shocks	Air-adjustable full travel air ride rear suspension
Wheels[3]:	Mirror Chrome Slicer Custom wheel
• Front	**17 in. x 3 in.** (432 mm x 76 mm)
• Rear	**16 in. x 5 in.** (406 mm x 127 mm)
Brakes:	
• Caliper Type	32 mm, 4-piston fixed front and rear
• Rotor Type *(diameter x width)*:	Dual floating rotors *(front)*, fixed rotor *(rear)*
• Front *(dual)*	**300 mm x 5.1 mm** (11.81 in. x 0.2 in.)
• Rear	**300 mm x 7.1 mm** (11.81 in. x 0.28 in.)
• Anti-lock Braking System	Standard
Suspension Travel:	
• Front Wheel	**117 mm** (4.6 in.)
• Rear Wheel	**76 mm** (3 in.)

PERFORMANCE

Engine Torque[4]:	
• HDI *(per EEC/95/1)*	**156 Nm** (115.1 ft-lb) **@ 3750 RPM**
Lean Angle *(per J1168)*:	
• Right	34.3°
• Left	33.4°
Fuel Economy[5] *(EPA urban/highway test)*	**5.7 L/100 km** (41 mpg)

ELECTRIC

Battery *(per Battery Council International Rating)*	Sealed, maintenance-free, 12V, 28-amp/hour, 405 cca
Charging	Three-phase, 53-amp system *(617W @ 13V, 2000 RPM, 690W max power @ 13V)*
Starting	1.2 kW electric with solenoid shift starter motor engagement
Lights *(as per country regulation)*:	
• Headlamp *(LED)*: 34-watt, 915 lumen low beam, 37-watt, 915 lumen high beam with switchable 20-watt, 1,220 lumen LED fog lamps. Total of 2,136 lumen output at low beam with fog lights.	
• Tail/Stop Lights	8W/28W
• Front Signal Lights	LED
• Indicator Lamps: High beam, running lights, front fender running lights, directional lights, neutral, low oil pressure, engine diagnostics, accessory, speakers, turn signals, security system[6], gear indication, battery, low fuel warning, cruise control, ABS, miles to empty display, fog/aux lamp indicator, Tire Pressure Monitoring System indicator	
• Auxiliary Lamps *(except where prohibited by law)*	Two LED @ 20W each
Electric Power Outlet	Electric power accessory port in fairing and Tour-Pak®
GPS System	Boom!™ Box 6.5GT audio system with GPS and touchscreen

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

CUSTOM COLORS[1]

NEW Palladium Silver/Phantom Blue
NEW Carbon Dust/Electric Red Pearl
NEW Charcoal Slate/Palladium Silver

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

Models shown in Domestic configuration.



Charcoal Slate/Palladium Silver



Palladium Silver/Phantom Blue



