

2020 Harley-Davidson® FLHP Road King® Police Motorcycles



(Sample Specifications and Description)

QUANTITY: [Insert Quantity] 2020 Harley-Davidson® FLHP Road King® Solo Law Enforcement Motorcycles

SCOPE OF SPECIFICATIONS

These specifications describe the mechanical and comfort requirements for the FLHP solo law enforcement motorcycles which will be used by the [insert agency/department name].

SPECIFICATIONS*

All proposed FLHP motorcycles to be in full compliance as follows:

NEW FOR 2020

Reflex™ Defensive Rider Systems (RDRS) – Standard:

The Reflex Defensive Rider Systems will assist the rider in maintaining the rider's intended path.

Package provides the following features:

- Cornering Electronically Linked Brakes
- Cornering – ABS
- Cornering – Traction Control with modes. Traction Control can be turned on or off
- Drag Torque Slip Control
- Vehicle Hold Control
- Tire Pressure Monitoring (TPMS)

A. Engine

Piston displacement of not less than 1868cc Milwaukee-Eight™ 114 cubic inch, pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), producing minimal vibration frequencies and magnitudes. Engine and transmission isolated from motorcycle frame utilizing a rubber mounting system.

- Powertrain deluxe chrome group designed for low maintenance; black powder coat finish on engine; chrome rocker boxes, timer cover, outer primary housing & transmission covers
- Compression ratio: 10.5:1
- Electronic Sequential Port Fuel Injection System (ESPFI)
- Single Cam design
- Hydraulic Lifters requiring no maintenance service adjustments
- Air and Oil cooled
- Fan-assisted oil cooler

B. Clutch / Transmission

- Clutch shall be of the latest assist and slip ten (10) plate design, wet
- Hydraulically Actuated Clutch system
- Transmission to be of latest design, manual type, with not less than six (6) forward speeds
- Clutch disengage for starter motor operation
- Primary Drive, double-row chain, 34/46 ratio
- Greaseless shifter shaft with “anti-vibration” rubber spacers
- Gear Ratios:

1 st :	9.593
2 nd :	6.650
3 rd :	4.938
4 th :	4.000
5 th :	3.407
6 th :	2.875

C. Brakes

- Reflex™ Linked Braking with ABS, linking disengages below 25 mph
- Hydraulic Disc brakes for both front and rear wheels
- Front brakes having dual 11.81-inch diameter floating discs
- Rear brake having a single disc
- Brakes shall be relatively free of heat fade
- Calipers – 4 Piston
- Uniform Expanding Rear Rotor

D. Suspension

Motorcycles shall be provided with a suspension system to permit optimum handling conditions as required in law enforcement.

- Front suspension uses Showa® Dual Bending Valve (SDBV™) technology and provides 117 mm of travel; improved damping performance over the range of suspension travel
- Hand-adjustable emulsion rear shocks provide 15–30% more preload adjustment and adjust with the turn of a single knob, no tools required; improved damping performance over the range of suspension travel
- 49 mm telescopic front forks
- Rear suspension swing arm bearings shall require no lubrication for life of the motorcycle

E. Wheels / Tires

- Black Impeller™ Cast Aluminum wheels, rim material to be impermeable to compressed air
- 90° valve stem
- Tubeless type tires to have non-skid tread, designed to operate on paved highways and shall have a full, four-ply fabric reinforcement
- Bead-retention tires designed to remain on wheel during sudden loss of pressure
- Sealed automotive style wheel bearings requiring no endplay adjustment and service interval of 100,000 miles (160,000 km)

F. Fuel Tank

- Fuel tank to have a capacity of 6 U.S. gallons (22.71 liters). Must provide a minimum of 1 gallon (3.8 L) reserve fuel capacity when main supply is exhausted
- Electric fuel pump

G. Electrical System

Electrical system shall be nominal 12-volt as follows:

- Battery: Sealed, heavy-duty maintenance-free, 12-volt, minimum rated capacity – 28 ampere hours (Battery Council International rating), 405 cold cranking amps
- Ignition: Non-waste spark, alpha control
- Charging System: Three-phase, 48-amp high output alternator producing 28 amps at idle, solid state regulator
- Connectors: Industrial grade throughout, provided with electrical accessory connection
- Hand Controls: Water-resistant, integrated switches
- Starting System: 12-volt starter, solenoid operated engagement, relay required
- Horn: Sound level audible above motorcycle and traffic-generated noise

H. Lighting

Each motorcycle shall be provided with the following lighting equipment:

- Dual Halogen Headlight
- Front Emergency Lamps PAR-36, one red and one blue (incandescent)
- Tail light
- Turn Signals, self-canceling system
- Flashers, four-way, with independent switch
- License plate lighting with two blue marker lamps

I. Visual Displays

- Speedometer: Analog & Digital speedometer, range 0–120mph (or kph equivalent), (2) re-settable trip meters
- Speed Capture with Digital Speed Display
- Gear indicator
- Odometer: Calibrated, cumulative
- Tachometer: Analog
- Fuel level gauge
- Emergency Light Activation indicators – separate indicators for front and rear emergency lights
- Stealth Mode indicator – if activated
- Cruise Control indicator
- Sight glass on brake master cylinders
- Fuel Mileage countdown till empty displayed in odometer window when Low Fuel indicator lamp is lit
- Turn Signal indicators
- Hazard-Warning Lights indicator
- Neutral indicator
- High-Beam indicator
- Low Oil Pressure indicator
- Engine Diagnostic light
- ABS indicator lamp
- Security Lamp (if equipped with optional security system)

J. Feature Requirements

- Seat: Deluxe solo saddle, special police type, breathable material covering, adjustable coil over spring suspension system
- Cruise Control – OE standard
- Stealth Mode – optional activation
- Push to Talk Switch – requires other police radio equipment not supplied by H-D
- Power ON for emergency equipment for 30 minutes with ignition OFF
- Analog and Digital Speed Display with Speed Capture feature
- Gear Indicator
- Side Stand: Jiffy stand with electronic disengage to prevent drive off with jiffy stand deployed
- Foot Boards: pivoting type with non-skid rubber pads
- Guards: Front engine guard bar and rear saddlebag guard bars *Horizontal Saddlebag Rails – Optional*
- Saddlebags: Factory installed, law enforcement type Injection Molded GTX saddlebags, approximately 2000 cubic inches of storage space per bag, water-resistant, utilizing one-touch operation latches
- Final belt drive, with a rubber isolated 68 tooth rear drive sprocket
- Chrome, two into one into two exhaust system
- Windshield: Constructed of clear polycarbonate, designed to break away with minimal force
- Mirrors: Two (2) long stem true image mirrors
- Key: One key fits all locks
- Wheelbase: 64 inches (1625 mm)
- Laden Seat Height: 27.3 inches (695 mm)
- Gross Vehicle Weight Rating: 1,360 lb. (617 kg)
- Dry Weight: 805 lb. (365 kg)
- Running Order: 842_s lb. (382 kg)
- Service Intervals: 1st 1,000 miles and then every 5,000 miles thereafter
- Limited Warranty: 24 months, unlimited mileage

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