POLICE VEHICLE EVALUATION Model Year 2018







MICHIGAN











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STATE OF MICHIGAN

Department of State Police and Department of Technology, Management and Budget



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PREFACE

The Michigan State Police Vehicle Test Team is pleased to announce the results of the 2018 Model Year Police Vehicle Evaluation. This year we tested thirteen patrol vehicles and seven police motorcycles. We appreciate your continued support and encouragement. The vehicles evaluated this year included the following:

POLICE CATEGORY

Chevrolet Tahoe 5.3L RWD Chevrolet Tahoe 5.3L AWD Dodge Charger 3.6L RWD Dodge Charger 5.7L AWD Dodge Charger 5.7L RWD Ford Police Interceptor Sedan 3.5L EcoBoost AWD Ford Police Interceptor Sedan 3.5L FWD Ford Police Interceptor 3.7L AWD Ford Police Interceptor 2.0L EcoBoost FWD Ford Police Responder Hybrid Sedan Ford Police Interceptor Utility 3.5L EcoBoost AWD Ford Police Interceptor Utility 3.7L AWD Ford Police Interceptor Utility 3.7L AWD

MOTORCYCLES

BMW R1200 RT-P Harley-Davidson FLHP Harley-Davidson FLHP Stage II Harley-Davidson FLHTP Stage I Harley-Davidson FLHTP Stage IV Yamaha FJR1300 Zero DSRP



GENERAL INFORMATION

All the patrol vehicles were tested with a clean roof (no overhead light or light bar) and without "A" pillar mount spotlights. We believe this is the best way to ensure all of the vehicles are tested on an equal basis. Remember that once overhead lights, spotlights, radio antennas, sirens, and other emergency equipment are installed, overall performance may be somewhat lower than we report.

Each vehicle was tested with the tires that are available as original equipment on the production model. Specific tire information for each vehicle is available in the Vehicle Description portion of this report. All vehicles listed in this report were equipped with electronic speed limiters unless otherwise noted, or with the exception of certain motorcycles.

Motorcycles were tested with equipment installed as provided by their respective manufacturer. Harley-Davidson chose to test their bikes with minimal equipment. BMW, Yamaha, and Zero chose to test their bikes with the majority of the equipment installed.

The manufacturers were allowed to submit a one-half page highlight of their vehicle. These highlights will be included with the vehicle description and photograph. This information is direct from the manufacturer and is not an opinion or endorsement from the Michigan State Police. It is only an attempt to give the consumer the most information about the vehicle.

Fiat Chrysler Automobiles (FCA) Proving Grounds - Acceleration, Top Speed, & Braking Tests

Acceleration and Top Speed tests were performed at the FCA Proving Grounds. This 4.7 mile 140 mph neutral steer banked oval provides ample space to obtain accurate test results in these areas.

The Brake test is also performed at the FCA Proving Grounds. The surface used for testing this year was changed due to construction. The new surface had a coefficient of friction of .87 as compared to the .93 coefficient of friction on the surface used previously.

We would like to thank Mr. Greg Spicher and Mr. Craig Latta for the assistance we received from the staff at the FCA Proving Grounds.

Precision Driving Unit - Motorcycle Brake Test

Motorcycle Brake testing was performed at the Michigan State Police Precision Driving Unit. The east straightaway has been used for brake testing since the 2011 model year and provides a consistent surface to gauge brake performance from year to year.

Grattan Raceway - Motorcycle Dynamics Test

Motorcycle Dynamics testing was performed at Grattan Raceway. This two mile road course provides a taxing environment to test motorcycles in dynamics and continues to produce comprehensive results regarding durability and performance.

We appreciate the support we received from BMW, Harley-Davidson, and Yamaha during testing. This was the twelfth year of police motorcycle testing and we continue to get great feedback on this important component to the testing lineup.

Grattan Raceway - Vehicle Dynamics Test

Vehicle Dynamics testing was performed at Grattan Raceway. This two mile road course provides a realistic environment to test vehicles in dynamics and continues to produce comprehensive results regarding durability and performance.

We appreciate the support we received from Fiat Chrysler Automobiles (FCA), Ford Motor Company, and General Motors during testing.

EVALUATION INFORMATION

MOTORCYCLES:

Grattan Raceway – Motorcycle Dynamics Testing – Yamaha FJR1300P-AB

During run three of dynamics testing, the motorcycle experienced an unexpected ABS activation as the rider entered turn one. This activation reduced the braking effort and the rider elected to ride straight into the gravel trap rather than attempting to negotiate the turn. The motorcycle was inspected for function and damage by Yamaha representatives and then returned to service to complete testing.

AUTOMOBILES:

Optional Equipment

All of the Dodge Charger platforms were tested with the optional P245/55R18 sized tires rather than the standard P225/60R18 tire. The Ford Police Interceptor Utility 3.5L Ecoboost AWD was tested with the optional Power Transfer Unit cooler.

Grattan Raceway – Automobile Dynamics Testing – Ford F150 Police Responder

During the Vehicle Dynamics testing at Grattan Raceway, the F150 Police Responder had an occurrence of transmission fluid venting through the breather tube during the first 8-lap session. The Ford engineers identified that the transmission was overfilled due to using an outdated technical instruction during the preparation process. As the transmission heated, the fluid expanded and began to vent from the transmission resulting in an under filled condition. The fluid level was adjusted by adding 8 ounces of fluid after the second session. The remaining two sessions were conducted with no further issues. Between sessions, a fan was used to cool the transmission to the correct temperature to confirm the original overfill condition.

Grattan Raceway – Automobile Dynamics Testing – Chevrolet Tahoe

Due to the crash during testing of the 2015 model year Chevrolet Tahoe, a safety inspection for brake pad condition and thickness was performed on the left front brake location on both models of the Tahoe. This inspection was agreed upon between GM engineers and MSP prior to testing. The inspection found that there was sufficient pad thickness to complete the fourth series of dynamics testing without concern.



We recommend you review the information contained in this report and then apply it to the needs of your agency. This report is not an endorsement of products, but a means of learning what's available for your officers so they can do their job effectively and safely. If anything in this report requires further explanation or clarification, please call or write.

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VEHICLE TESTING HISTORY, PURSUIT RATINGS, AND PURCHASING SPECIFICATIONS

The Michigan State Police (MSP) began testing patrol cars in the 1950s. At that time, quotations were requested from manufacturers and only the vehicle with the lowest quotation was tested to see if it met the purchase requirements. Years later, the quotations received from manufacturers were only four dollars apart. At that point, the MSP decided to test all vehicles in order to select the best vehicle. The equipment used to measure speed and distance has evolved from tape measure to global positioning systems providing more accurate measurements, making the MSP vehicle testing an internationally recognized resource for law enforcement agencies.

The term pursuit rated vehicle has recently been called into question as no one fully understands what this term represents. The term pursuit capable is more appropriate as there is no sanctioning body, or specific performance criteria, to determine if the vehicle meets a specialized designation. Each vehicle has been modified from a civilian vehicle to perform better under the rigors of police use. These vehicles are engineered to repetitively stop in a shorter distance, accelerate faster, and handle better than the base platform. Modifications to engines, cooling systems, transmissions and shifting parameters, brakes, tires, stability control programming, and other changes may all be included as part of the manufacturers police package.

The manufacturers provide upcoming model year vehicles to both the MSP and Los Angeles County Sheriff's Department to be tested for suitability in their respective operations. Historically, successful results at both test sites have validated the manufacturers' engineering efforts in building a car capable of handling the stress associated with police pursuits. Neither the MSP, nor the Los Angeles County Sheriff's Department, has the authority or credentials to award the term pursuit rated to any vehicle.

The MSP has performance criteria attached to its purchasing specifications. The criteria has historically been that a vehicle must accelerate from 0 - 60 mph in 9.0 seconds, 0 - 80 mph in 14.9 seconds, and 0 - 100 mph in 24.6 seconds. The vehicle must reach 110 mph in 4,838 feet and 120 mph in 8,985 feet. The vehicle must maintain an average deceleration rate of 25.79 ft./sec² while performing twenty 60 - 0 mph threshold braking stops. The vehicle must also successfully complete all 32 laps of the Grattan Raceway dynamics testing without major component failure. Meeting these criteria does not certify a vehicle as being pursuit rated, rather it justifies a vehicle is capable of performing the job function the MSP requires in a police vehicle. When reading the testing results in this book, it is up to each agency to determine if the vehicle is suitable for the mission of their agency.

ACKNOWLEDGEMENTS

We would like to thank the following contributors. We are grateful for their support and encouragement toward our ultimate goal: a safe, successful testing program that benefits the law enforcement community nationwide and beyond.

Colonel Kriste Kibbey Etue, Director, Michigan Department of State Police Lt. Colonel W. Thomas Sands, Deputy Director, Field Services Bureau Lt. Colonel Richard T. Arnold, Deputy Director, State Services Bureau Lt. Colonel Gary M. Gorski, Deputy Director, Specialized Services Bureau Mr. Shawn Sible, Deputy Director, Administrative Services Bureau Capt. Thomas Deasy, Commander, Training Division Personnel from the Michigan Department of Technology, Management and Budget, Vehicle and Travel Services

The National Institute of Justice, Justice Technology Information Center, Mr. Alex Sundstrom, Leidos.

Mr. Greg Spicher, Mr. Craig Latta and personnel from FCA Proving Grounds Mr. Sam Faasen and personnel from Grattan Raceway Park

Photographs by Mr. Ray Holt, Michigan State Police Vehicle Evaluation book prepared by Ms. Gina Rosendall-Saucedo and Ms. Jamie Hansen, Michigan State Police Training Division.

The Michigan State Police Precision Driving Unit would like to extend a very special "thank you" to Fiat Chrysler Automobiles, Ford Motor Company, General Motors, BMW Motorrad USA, Harley-Davidson Motorcycles, Yamaha Motorcycles and Zero Motorcycles for their hard work in building and preparing the test cars and motorcycles. We are grateful for your dedication to law enforcement. Law enforcement officers rely on these vehicles to perform a vast array of duties.

Finally, thank you to all in the United States and Canada who represent law enforcement and purchasing agencies for your constant encouragement and support. We are proud to make a contribution to the law enforcement community.

Michigan State Police Vehicle Test Team:



Back Row: Sgt. Doug Schutter, Tpr. Jeremy Cupp, Lt. Mike McCarthy, Sgt. Rob Schwalm, Tpr. Jeff Mercer, Ret. Sgt. David "Doc" Halliday Front Row: Ms. Jackie Fitzsimmons, Tpr. Jon Tibaudo, Sgt. Nick Darlington, Sgt. Pat Agema, Tpr. Tony VanLuchene, Sgt. Andy Douville, Ms. Gina Rosendall-Saucedo

Not Pictured: Sgt. Matt Rogers

TEST EQUIPMENT

The following test equipment is utilized during the Acceleration, Top Speed, Braking, and Vehicle Dynamics portions of the evaluation program.

Racelogic USA 27240 Haggerty Rd Suite E17 Farmington Hills, MI 48331	VBox 3i Data Collection System
Schuberth Helmets Stegelitzer Straße 12 39126 Magdeburg Deutschland	Motorcycle Helmet – C3 Pro
AMB i.t. US-INC 1631 Phoenix Blvd. Suite 11 College Park, GA 30349	 Orbits 5.2 Extended Loop Decoder AMB TranX260 Transponders
Alpinestars USA 2780 W. 237 th Street Torrance, CA 90505-5270	Alpinestars Protective Riding Apparel
Stilo Helmets USA 9A Electronics Ave. Danvers, MA 01923	Test Driver Helmet – WRC DES Composite
Motorola Solutions 1303 East Algonquin Road Schaumburg, IL 60196	Mag One BPR 40 Two-Way Radios

TEST VEHICLE DESCRIPTIONS AND PHOTOGRAPHS

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Chevrolet Tahoe 5.3L RWD







Image a model 2018 Chevroliet Table 2000 (scf) SALES CODE CC15706 POWERTRAIN INFORMATION CUBIC INCHES 325 LITERS 5.3 HORSEPOWER SAENET 355 @ 5600 RPM ALTERNATOR 170 AMP TORQUE 383 @ 4100 RPM BATTERY 720 CCA Primary (730 CCA Auxiliary) FRANSMISSION 6-Speed Automatic AXLE RATIO 3.08:1 (Rear-Wheel Drive (standard Heavy-Duty Locking Rear Differential) STEERING Electric Power-Assisted Rack-and-Pinion TURNING CIRCLE (CURB TO CURB) 39 Feet GROUND CLEARANCE, MINIMUM BAS 5 inches HEAV DUty 4-Wheel Anti-lock front & rear disc with Vacuum boost JC Gallons/98 Liters OUT REASE URB WEIGHT 5.2.24 lbs. HEIGHT 72.4 inches COMB 112.1 cu. ft. MAX CARGO AREA 56.9 cu. ft. MAX CARGO AREA 112.1 cu. ft. MAX CARGO AREA 116.1 MAX CARGO AREA 158 lbs. with 40/40 front seats (no center seat) CITY 16 HIGHWAY 23	MAKE & MODEL	2018 Chayraldt Tahaa 2W/D (0C1)
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REAR COMB56.9 cu. ft.MAX CARGO AREA MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)120.7 cu. ft.Instructure 	FRONT	63.8 cu. ft.
MAX CARGO AREA 112.1 cu. ft. MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 1,588 lbs. with 40/40 front seats (no center seat) EPA MILEAGE EST. (MPG) CITY 16	-	
MAX CARGO AREA 112.1 cu. ft. MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 1,588 lbs. with 40/40 front seats (no center seat) EPA MILEAGE EST. (MPG) CITY 16	СОМВ	
MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 1,588 lbs. with 40/40 front seats (no center seat) EPA MILEAGE EST. (MPG) CITY 16	MAX CARGO AREA	112.1 cu. ft.
(INCLUDING PASSENGERS) T,588 IDS. with 40/40 front seats (no center seat) EPA MILEAGE EST. (MPG) CITY 16		
CITY 16		1,000 IDS. WITH 40/40 FIORT SEATS (NO CENTER SEAT)
		EPA MILEAGE EST. (MPG)
HIGHWAY 23	CITY	
	HIGHWAY	23
COMBINED 19	COMBINED	19

The Tahoe PPV remains the only full-size, body-on-frame, pursuit-rated cruiser in the market. It provides excellent officer comfort, visibility, cargo capacity, up-fit capability, and true utility.

Tahoe interior showcases office-like ergonomics, innovative technologies, and a host of safety features to keep officers safe and connected behind the wheel. Standard are a Rear Vision Camera with 8" Display and backup sensors. New 8 inch MyLink infotainment radio with Bluetooth¹ cell phone connectivity and steering wheel mounted controls are also standard.

Also new is the optional Enhanced Driver Alert Package that includes Forward Collision Alert, Low Speed Forward Automatic Braking, Lane Keep Assist and exclusive Safety Alert Seat.

Just like before, the Tahoe PPV offers full pursuit capability with tremendous power, speed, braking, and agility. The 5.3L EcoTec3 V8 under the hood features direct injection, variable valve timing, and Active Fuel Management. It produces 355 horsepower (an increase of 35 over the 2014 model) and 383 lb-ft of torque (an increase of 48 over the 2014 model), all while yielding better gas mileage than the engine it replaced (up to 23 highway mpg). Also standard are dual batteries to handle the electrical draw of emergency equipment, and a tow package capable of up to 4,000 lbs. of tow capacity².

Whether it's high-speed emergency vehicle operations, city patrol, HAZMAT, K-9 unit, medical first responder, or tactical operations, the 2018 Tahoe PPV reaffirms that the SUV is thriving and ready for duty.

¹ Go to gmtotalconnect.com to find out which phones are compatible with the vehicle.

² Maximum trailer weight ratings are calculated assuming a properly equipped base vehicle, except for any option(s) necessary to achieve the rating, plus driver. The weight of other optional equipment, passengers, and cargo will reduce the maximum trailer weight your vehicle can tow.

Chevrolet Tahoe 5.3L 4WD







MAKE & MODEL SALES CODE2018 Chevrolet Tahoe 4WD (9C1) CK15706CK15706POWERTRAIN INFORMATIONCUBIC INCHES LITERS325 5.3LITERS5.3HORSEPOWER SAENET355 @ 5600 RPMALTERNATOR TORQUE170 AMPSATTERY TRANSMISSION720 CCA Primary (730 CCA Auxiliary)TRANSMISSION AXLE RATIO6-Speed Automatic 3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-Wheel Drive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	
POWERTRAIN INFORMATIONCUBIC INCHES325LITERS5.3HORSEPOWER SAENET355 @ 5600 RPMALTERNATOR170 AMPTORQUE383 @ 4100 RPMBATTERY720 CCA Primary (730 CCA Auxiliary)TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelSTEERINGElectric Power-Assisted Rack-and-Pinion	
CUBIC INCHES325LITERS5.3HORSEPOWER SAENET355 @ 5600 RPMALTERNATOR170 AMPTORQUE383 @ 4100 RPMBATTERY720 CCA Primary (730 CCA Auxiliary)TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelDrive (standard Heavy-Duty Locking Rear Differential)Electric Power-Assisted Rack-and-Pinion	
LITERS5.3HORSEPOWER SAENET355 @ 5600 RPMALTERNATOR170 AMPTORQUE383 @ 4100 RPMBATTERY720 CCA Primary (730 CCA Auxiliary)TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelSTEERINGElectric Power-Assisted Rack-and-Pinion	1
HORSEPOWER SAENET355 @ 5600 RPMALTERNATOR170 AMPTORQUE383 @ 4100 RPMBATTERY720 CCA Primary (730 CCA Auxiliary)TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelDrive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	
ALTERNATOR170 AMPTORQUE383 @ 4100 RPMBATTERY720 CCA Primary (730 CCA Auxiliary)TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelDrive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	
TORQUE BATTERY383 @ 4100 RPMBATTERY TRANSMISSION AXLE RATIO720 CCA Primary (730 CCA Auxiliary)6-Speed Automatic 3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-Wheel Drive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	
BATTERY720 CCA Primary (730 CCA Auxiliary)TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelDrive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	
TRANSMISSION6-Speed AutomaticAXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelDrive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	l
AXLE RATIO3.08:1 Driver- Selectable Auto 4-Wheel Drive, Four-Wheel, or 2-WheelDrive (standard Heavy-Duty Locking Rear Differential)STEERINGElectric Power-Assisted Rack-and-Pinion	l
STEERING Drive (standard Heavy-Duty Locking Rear Differential) Electric Power-Assisted Rack-and-Pinion	l
STEERING Electric Power-Assisted Rack-and-Pinion	
TURNING CIRCLE (CURB TO CURB) 39 Feet	
TIRE SIZE, LOAD & SPEED RATING Goodyear RSA P265/60/R17, All-season	
Load Rating 108, Speed Rating 'V'	
GROUND CLEARANCE, MINIMUM 8.5 inches	
BRAKE SYSTEM Heavy Duty 4-Wheel Anti-lock front & rear disc with Vacuum boost	
FUEL CAPACITY 26 Gallons/98 Liters	
GENERAL MEASUREMENTS	
WHEELBASE 116 inches	
LENGTH 204 inches	
CURB WEIGHT 5,442 lbs.	
HEIGHT 72.4 inches	
INTERIOR VOLUME	
FRONT 63.8 cu. ft.	
REAR 56.9 cu. ft.	
COMB 120.7 cu. ft	
MAX CARGO AREA 112.1 cu. ft.	
MAXIMUM PAYLOAD CAPACITY 1,628 lbs. with 40/40 front seats (no center seat)	
(INCLUDING PASSENGERS)	
EPA MILEAGE EST. (MPG)	
CITY 16	
HIGHWAY 22	
COMBINED 18	

The Tahoe PPV remains the only full-size, body-on-frame, pursuit-rated cruiser in the market. It provides excellent officer comfort, visibility, cargo capacity, up-fit capability, and true utility. Riding at the identical height as 2WD models with matching brakes and tires, the Tahoe PPV 4WD can travel wherever the pursuit takes you.

Tahoe interior showcases office-like ergonomics, innovative technologies, and a host of safety features to keep officers safe and connected behind the wheel. Standard are a Rear Vision Camera with 8" Display and backup sensors. **New 8" MyLink infotainment radio** with Bluetooth¹ cell phone connectivity and steering wheel mounted controls are also standard.

Also new is the optional Enhanced Driver Alert Package that includes Forward Collision Alert, Low Speed Forward Automatic Braking, Lane Keep Assist and exclusive Safety Alert Seat.

Just like before, the Tahoe PPV offers full pursuit capability with tremendous power, speed, braking, and agility. The 5.3L EcoTec3 V8 under the hood features direct injection, variable valve timing, and Active Fuel Management. It produces 355 horsepower (an increase of 35 over the 2014 model) and 383 lb-ft of torque (an increase of 48 over the 2014 model), all while yielding better gas mileage than the engine it replaced (up to 23 highway mpg). Also standard are dual batteries to handle the electrical draw of emergency equipment, and a tow package capable of up to 4,000 lbs. of tow capacity².

Whether it's high-speed emergency vehicle operations, city patrol, HAZMAT, K-9 unit, medical first responder, or tactical operations, the 2018 Tahoe PPV reaffirms that the SUV is thriving and ready for duty.

- ¹ Go to gmtotalconnect.com to find out which phones are compatible with the vehicle.
- ²Maximum trailer weight ratings are calculated assuming a properly equipped base vehicle, except for any option(s) necessary to achieve the rating, plus driver. The weight of other optional equipment, passengers, and cargo will reduce the maximum trailer weight your vehicle can tow.









MAKE & MODEL	2010 Dadas Charres DWD
SALES CODE	2018 Dodge Charger RWD
SALES CODE	27A, Z1B
	POWERTRAIN INFORMATION
CUBIC INCHES	220
LITERS	3.6
HORSEPOWER SAENET	292 @ 6400 RPM
ALTERNATOR	220 AMP
TORQUE	260 @ 4800 RPM
BATTERY	800 CCA
TRANSMISSION	5-Speed Electronic Automatic
AXLE RATIO	2.62
STEERING	Rack-and-Pinion with Electric Power Assist
TURNING CIRCLE (CURB TO CURB)	37.7 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V, Goodyear Eagle RSA
GROUND CLEARANCE, MINIMUM	5.1 inches
BRAKE SYSTEM	Power, Dual Piston Front/Single Piston Rear, 4 Channel Anti-Lock
FUEL CAPACITY	18.5 Gallons/70.03 Liters
	GENERAL MEASUREMENTS
WHEELBASE	120.2 inches
LENGTH	198.4 inches
CURB WEIGHT	4,098 lbs.
HEIGHT	58.4 inches
	INTERIOR VOLUME
FRONT	55.6 cu. ft.
REAR	49.2 cu. ft.
СОМВ	104.7 cu. ft.
TRUNK	16.5 cu. ft.
MAXIMUM PAYLOAD CAPACITY	1,390 lbs.
(INCLUDING PASSENGERS)	
	EPA MILEAGE EST. (MPG)
CITY	18
HIGHWAY	26
COMBINED	20

The 2018 Dodge Charger Pursuit boasts an industry-exclusive cockpit design with an optional 12.1-inch touch-screen display. This touchscreen display includes Uconnect® infotainment system with standard Bluetooth®. New larger screen allows the laptop to be stored in the trunk, reducing interior clutter for safety and increased productivity. The police integrated display package responds to officers' demands for tactical advantages and safety. Vehicle Systems Interface Module (standard) enables easier upfits by providing upfitters with access to the electrical architecture of the vehicle.

Each 2018 Dodge Charger Pursuit will be equipped with the Officer Protection Package which is designed to increase an officer's situational awareness when parked and working inside the vehicle. Through the use of the Charger Pursuit's ParkSense rear park assist system, ParkView rear backup camera, Blind Spot and Cross Path detection sensors, the system alerts an officer if anyone is behind the vehicle.

The 2018 Dodge Charger Pursuit features a standard Ward's "Automotive 10 Best" Pentastar® V6 engine with Decel Fuel Shut-Off feature that provides a unique balance of pursuit-rated performance and V6 efficiency, including Flex-Fuel capability.

The 2018 Dodge Charger Pursuit 3.6L can now be ordered with an optional 220mm rear axle which increases the payload capacity 200lbs. Additional purpose-built upgrades include performance-tuned suspension, load-leveling shocks and beefed-up, heavy-duty brakes. Additional officer-focused upgrades include specially developed seats to accommodate belt-mounted gear and a sport steering wheel with auxiliary buttons for controlling police equipment.

Dodge Charger 5.7L RWD







MAKE & MODEL	2010 Dadge Charger DWD
SALES CODE	2018 Dodge Charger RWD
SALES CODE	29A, 5ZV
	POWERTRAIN INFORMATION
CUBIC INCHES	345
LITERS	5.7
HORSEPOWER SAENET	370 @ 5250 RPM
ALTERNATOR	220 AMP
TORQUE	395 @ 4200 RPM
BATTERY	800 CCA
TRANSMISSION	5-Speed Electronic Automatic
AXLE RATIO	2.62, 220mm
STEERING	Rack-and-Pinion with Electric Power Assist
TURNING CIRCLE (CURB TO CURB)	37.7 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103, V Speed Rating, Goodyear Eagle RSA
GROUND CLEARANCE, MINIMUM	5.1 inches
BRAKE SYSTEM	Power, Dual Piston Front/Single Piston Rear, 4 Channel Anti-Lock
FUEL CAPACITY	18.5 Gallons/70.03 Liters
	GENERAL MEASUREMENTS
WHEELBASE	120.2 inches
LENGTH	198.4 inches
CURB WEIGHT	4,325 lbs.
HEIGHT	58.4 inches
	INTERIOR VOLUME
FRONT	55.6 cu. ft.
REAR	49.2 cu. ft.
СОМВ	104.7 cu. ft.
TRUNK	16.5 cu. ft.
MAXIMUM PAYLOAD CAPACITY	1,200 lbs.
(INCLUDING PASSENGERS)	
	EPA MILEAGE EST. (MPG)
CITY	16
HIGHWAY	25
COMBINED	18

The 2018 Dodge Charger Pursuit features an industry-exclusive cockpit design with an optional 12.1-inch touch-screen, which enables officers to store their laptop in the trunk, reducing interior clutter for safety and increased productivity. Larger touch-screen display includes the Uconnect® infotainment system with standard Bluetooth®. Police integrated display package responds to officers' demands for tactical advantages and safety. Vehicle Systems Interface Module (standard) enables easier upfits by providing upfitters with access to the electrical architecture of the vehicle.

Each 2018 Dodge Charger Pursuit will be equipped with the Officer Protection Package which is designed to increase an officer's situational awareness when parked and working inside the vehicle. Through the use of the Charger Pursuit's ParkSense rear park assist system, ParkView rear backup camera, Blind Spot and Cross Path detection sensors, the system alerts an officer if anyone is behind the vehicle.

The minbule ride and controlled feel is achieved through its RWD design, which mitigates weight shift, enabling faster acceleration, more responsible handling and maneuverability. Power under the hood comes from the legendary 5.7L HEMI® V* engine. Its Variable Valve Timing (VVT) increases power output without sacrificing fuel economy through continuous adjusting of the camshaft tuning.

The 2018 Dodge Charger Pursuit RWD boasts a performance-tuned suspension, load-leveling NIVOMAT shocks, heavy-duty antilock vented-disc brakes, front and rear stabilizer bars, and two-mode police-specific Electronic Stability Control (ESC). Additional upgrades include sport steering wheel with auxiliary buttons for controlling police equipment.

Dodge Charger 5.7L AWD







MAKE & MODEL SALES CODE2018 Dodge Charger AWD 29A, 590POWERTRAIN INFORMATIONCUBIC INCHES LITERS345 5.7HORSEPOWER SAENET ALTERNATOR TORQUE BATTERY TRANSMISSION AXLE RATIO370 @ 5250 RPM 220 AMP 395 @ 4200 RPM 5-Speed Electronic Automatic 3.08, 230mm Rack-and-Pinion with Electro-Hydraulic Power Assist 38.7 ft.	
POWERTRAIN INFORMATIONCUBIC INCHES LITERS HORSEPOWER SAENET ALTERNATOR TORQUE BATTERY TRANSMISSION AXLE RATIO STEERING345 5.7 370 @ 5250 RPM 220 AMP 395 @ 4200 RPM 800 CCA 5-Speed Electronic Automatic 3.08, 230mm Rack-and-Pinion with Electro-Hydraulic Power Assist	
CUBIC INCHES345LITERS5.7HORSEPOWER SAENET370 @ 5250 RPMALTERNATOR220 AMPTORQUE395 @ 4200 RPMBATTERY800 CCATRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
LITERS5.7HORSEPOWER SAENET370 @ 5250 RPMALTERNATOR220 AMPTORQUE395 @ 4200 RPMBATTERY800 CCATRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
HORSEPOWER SAENET370 @ 5250 RPMALTERNATOR220 AMPTORQUE395 @ 4200 RPMBATTERY800 CCATRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
ALTERNATOR220 AMPTORQUE395 @ 4200 RPMBATTERY800 CCATRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
TORQUE395 @ 4200 RPMBATTERY800 CCATRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
BATTERY800 CCATRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
TRANSMISSION5-Speed Electronic AutomaticAXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
AXLE RATIO3.08, 230mmSTEERINGRack-and-Pinion with Electro-Hydraulic Power Assist	
STEERING Rack-and-Pinion with Electro-Hydraulic Power Assist	
TURNING CIRCLE (CURB TO CURB) 38.7 ft.	
TIRE SIZE, LOAD & SPEED RATING P245/55/R18, 103V, Goodyear Eagle RSA	
GROUND CLEARANCE, MINIMUM 5.1 inches	
BRAKE SYSTEM Power, Dual Piston Front/Single Piston Rear, 4 Channel Anti-Lock	
FUEL CAPACITY 18.5 Gallons/70.03 Liters	
GENERAL MEASUREMENTS	
WHEELBASE 120.2 inches	
LENGTH 198.4 inches	
CURB WEIGHT 4,520 lbs.	
HEIGHT 58.4 inches	
INTERIOR VOLUME	
FRONT 55.6 cu. ft.	
REAR 49.2 cu. ft.	
COMB 104.7 cu. ft.	
TRUNK 16.5 cu. ft.	
MAXIMUM PAYLOAD CAPACITY 1,000 lbs.	
(INCLUDING PASSENGERS)	
EPA MILEAGE EST. (MPG)	
CITY 15	
HIGHWAY 23	
COMBINED 18	

The 2018 Dodge Charger Pursuit is equipped with an industry-exclusive cockpit design. Its optional 12.1-inch touch-screen display enables officers to keep their laptops out of the center console, which reduces clutter and increases safety and productivity. The touch-screen display includes Uconnect® infotainment system with a standard Bluetooth®. The police integrated display package responds to officers' demand for tactical advantages and safety. Vehicle Systems Interface Module (standard) enables easier upfits by providing upfitters with access to the electrical architecture of the vehicle.

Each 2018 Dodge Charger Pursuit will be equipped with the Officer Protection Package which is designed to increase an officer's situational awareness when parked and working inside the vehicle. Through the use of the Charger Pursuit's ParkSense rear park assist system, ParkView rear backup camera, Blind Spot and Cross Path detection sensors, the system alerts an officer if anyone is behind the vehicle.

The 2018 Dodge Charger Pursuit's advanced all-wheel-drive system transitions seamlessly from RWD to AWD, resulting in more control for officers. The segment-exclusive active transfer case and front-axle disconnect system monitor and adapt to environmental/road conditions, vehicle mode and driver habits. The 2018 Dodge Charger Pursuit AWD boasts added traction, improved acceleration and optimum cornering balance.

The 5.7L HEMI® V8 engine features Variable Valve Timing (VVT), which increases power output without sacrificing fuel economy. Purpose-built features include a sport steering wheel with auxiliary buttons for controlling police equipment.

Ford Special Service Police Sedan 2.0L EcoBoost FWD







MAKE & MODEL	Ford Special Service Police
SALES CODE	P2L, 999
	POWERTRAIN INFORMATION
CUBIC INCHES	122
LITERS	2.0
HORSEPOWER SAENET	240 @ 5500 RPM
ALTERNATOR	200 AMP
TORQUE	270 @ 3000 RPM
BATTERY	750 CCA
TRANSMISSION	6-Speed Electronic Automatic
AXLE RATIO	3.07:1
STEERING	Electric Power Assist Rack-and-Pinion
TURNING CIRCLE (CURB TO CURB)	38.4 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V M+S Goodyear Eagle RS-A
GROUND CLEARANCE, MINIMUM	6.0 inches
BRAKE SYSTEM	Power, Dual Front Piston/Single Rear Piston, ABS
FUEL CAPACITY	19 Gallons/71.9 Liters
	GENERAL MEASUREMENTS
WHEELBASE	112.9 inches
LENGTH	202.9 inches
CURB WEIGHT	4,212 lbs.
HEIGHT	61.3 inches
	INTERIOR VOLUME
FRONT	54.8 cu. ft.
REAR	48.1 cu. ft.
СОМВ	103.0 cu. ft.
TRUNK	16.6 cu. ft. (with standard full size spare)
MAXIMUM PAYLOAD CAPACITY	1,290 lbs.
(INCLUDING PASSENGERS)	
	EPA MILEAGE EST. (MPG)
CITY	19
HIGHWAY	28
COMBINED	22

NEW FEATURES & CHANGES:

- Standard Simple Fleet Key (includes 4 Keys)
- Optional Remote Keyless Entry Key-Fob (includes 4-key fobs)

SAFETY:

- Ultra High Strength Boron Steel Safety Cell Construction
- Optional Level III & IV NIJ Ballistic Panels certified for LAPD special threat rounds
- Standard Anti-Stab plates in front seat-backs

FUEL ECONOMY:

- Provides an EPA-estimated 28 MPG hwy1
- Active Grille Shutter system manages airflow to optimally balance engine cooling and Aerodynamics

PERFORMANCE:

- \bullet Passed 32-lap vehicle dynamics tests by MSP and LASD in 2015CY and 2016CY
- 2.0L EcoBoost engine provides 240 hp and 270 lb/ft torque

1. EPA estimated ratings of 19 city / 28 hwy / 22 combined mpg; actual mileage will vary

Ford Police Interceptor Sedan 3.5L FWD







	Fand Dalias Interester Oadan FMD
MAKE & MODEL	Ford Police Interceptor Sedan FWD
SALES CODE	P2L, 998
	POWERTRAIN INFORMATION
CUBIC INCHES	214
LITERS	3.5
HORSEPOWER SAENET	288 @ 6500 RPM
ALTERNATOR	220 AMP
TORQUE	254 @ 4000 RPM
BATTERY	750 CCA
TRANSMISSION	6-Speed Electronic Automatic
AXLE RATIO	3.16:1
STEERING	Electric Power Assist Rack-and-Pinion
TURNING CIRCLE (CURB TO CURB)	38.4 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V M+S Goodyear Eagle RS-A
GROUND CLEARANCE, MINIMUM	6.0 inches
BRAKE SYSTEM	Power, Dual Front Piston /Single Rear Piston, ABS
FUEL CAPACITY	19 Gallons/71.9 Liters
	GENERAL MEASUREMENTS
WHEELBASE	112.9 inches
LENGTH	202.9 inches
CURB WEIGHT	4,212 lbs
HEIGHT	61.3 inches
	INTERIOR VOLUME
FRONT	54.8 cu. ft.
REAR	48.1 cu. ft.
СОМВ	103.0 cu. ft.
TRUNK	16.6 cu. ft. (with standard full size spare)
MAXIMUM PAYLOAD CAPACITY	1,280 lbs.
(INCLUDING PASSENGERS)	
	EPA MILEAGE EST. (MPG)
CITY	17
HIGHWAY	25
COMBINED	20

NEW FEATURES & CHANGES:

• Standard – Simple Fleet Key (includes 4 Keys

• Optional – Remote Keyless Entry Key Fob (includes 4 key fobs)

SAFETY:

- Industry Exclusive 75mph Rear Crash Tested
- Ultra High Strength Boron Steel Safety Cell Construction
- Optional Level III & IV NIJ Ballistic Panels Certified for LAPD special threat rounds
- Standard Anti-Stab plates in front seat backs

DURABILITY:

• Two times durability testing, proven real-world durability results

Ford Police Interceptor Sedan 3.7L AWD







	Fand Dalias Intercenter Order, AM/D
MAKE & MODEL SALES CODE	Ford Police Interceptor Sedan AWD
SALES CODE	P2M, 99K
	POWERTRAIN INFORMATION
CUBIC INCHES	226
LITERS	3.7
HORSEPOWER SAENET	305 @ 6500 RPM
ALTERNATOR	220 AMP
TORQUE	279 @ 4000 RPM
BATTERY	750 CCA
TRANSMISSION	6-Speed Electronic Automatic
AXLE RATIO	3.39:1 with All-Wheel Drive
STEERING	Electric Power Assist Rack-and-Pinion
TURNING CIRCLE (CURB TO CURB)	38.4 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V M+S, Goodyear Eagle RS-A
GROUND CLEARANCE, MINIMUM	6.0 inches
BRAKE SYSTEM	Power, Dual Front Piston/Single Rear Piston, ABS
FUEL CAPACITY	19 Gallons/71.9 Liters
	GENERAL MEASUREMENTS
WHEELBASE	112.9 inches
LENGTH	202.9 inches
CURB WEIGHT	4,311 lbs.
HEIGHT	61.3 inches
	INTERIOR VOLUME
FRONT	54.8 cu. ft.
REAR	48.1 cu. ft.
СОМВ	103.0 cu. ft.
TRUNK	16.6 cu. ft. (with standard full size spare)
MAXIMUM PAYLOAD CAPACITY	1,340 lbs.
(INCLUDING PASSENGERS)	·
	EPA MILEAGE EST. (MPG)
CITY	16
HIGHWAY	22
COMBINED	18

NEW FEATURES & CHANGES:

• Standard - Simple Fleet Key (includes 4 Keys)

• Optional – Remote Keyless Entry Key-Fob (includes 4-key fobs)

SAFETY:

- Industry Exclusive 75mph Rear Crash Tested
- Ultra High Strength Boron Steel Safety Cell Construction
- Optional Level III & IV NIJ Ballistic Panels Certified for LAPD special threat rounds
- Standard Anti-Stab plates in front seat backs

DURABILITY:

• Two times durability testing, proven real-world durability results

PERFORMANCE:

Standard Full-Time intelligent AWD

Ford Police Interceptor Sedan 3.5L EcoBoost AWD







MAKE & MODEL	Ford Police Interceptor Sedan EcoBoost AWD
SALES CODE	Р2М, 99Т
	POWERTRAIN INFORMATION
CUBIC INCHES	214
LITERS	3.5
HORSEPOWER SAENET	365 @ 5500 RPM
ALTERNATOR	220 AMP
TORQUE	350 @ 1500-5250 RPM
BATTERY	750 CCA
TRANSMISSION	6-Speed Electronic Automatic
AXLE RATIO	3.16:1 with All Wheel Drive
STEERING	Electric Power Assist Rack-and-Pinion
TURNING CIRCLE (CURB TO CURB)	38.4 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V M+ S Goodyear Eagle RS-A
GROUND CLEARANCE, MINIMUM	5.3 inches
BRAKE SYSTEM	Power, Dual Front Piston/Single Rear Piston, ABS
FUEL CAPACITY	19.0 Gallons/71.9 Liters
	GENERAL MEASUREMENTS
WHEELBASE	112.9 inches
LENGTH	202.9 inches
CURB WEIGHT	4,371 lbs
HEIGHT	61.3 inches
	INTERIOR VOLUME
FRONT	54.8 cu. ft.
REAR	48.1 cu. ft.
СОМВ	103.0 cu. ft.
TRUNK	16.6 cu. ft. (with standard full size spare)
MAXIMUM PAYLOAD CAPACITY	1,220 lbs.
(INCLUDING PASSENGERS)	ו,געו שא.
	EPA MILEAGE EST. (MPG)
CITY	15
HIGHWAY	22
COMBINED	18

NEW FEATURES:

- Standard Simple Fleet Key (includes 4 Keys)
- Optional Remote Keyless Entry Key-Fob (includes 4-key fobs)

SAFETY:

- Tested four years running by MSP and LASD with Traction Control and Stability Control safety systems full on, as driven by officers in the real world
- Industry Exclusive 75mph Rear Crash
- Ultra High Strength Boron Steel Safety Cell Construction
- Optional Level III & IV NIJ ballistic panels Certified for LAPD special threat rounds
- Standard Anti-Stab plates in front seat backs

DURABILITY:

• Two times durability testing, proven real-world durability results

PERFORMANCE:

- Standard Full-Time Intelligent AWD
- \bullet EcoBoost engine with 365 hp and 350 lb/ft torque

Ford Police Interceptor Utility 3.7L AWD







MAKE & MODEL	Ford Police Interceptor Utility AWD
SALES CODE	K8A, 99R
POWERTRAIN INFORMATION	
CUBIC INCHES	226
LITERS	3.7
HORSEPOWER SAENET	304 @ 6250 RPM
ALTERNATOR	220 AMP
TORQUE	279 @ 4000 RPM
BATTERY	750 CCA
TRANSMISSION	6-Speed Electronic Automatic
AXLE RATIO	3.65:1 with All-Wheel Drive
STEERING	Electric Power Assist Rack-and-Pinion
TURNING CIRCLE (CURB TO CURB)	38.8 ft.
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V M+S Goodyear Eagle RS-A
GROUND CLEARANCE, MINIMUM	6.5 inches
BRAKE SYSTEM	Power, Dual Front Piston/Single Rear Piston, ABS
FUEL CAPACITY	18.6 Gallons/70.4 Liters
	GENERAL MEASUREMENTS
WHEELBASE	112.6 inches
LENGTH	197.1 inches
CURB WEIGHT	4,672 lbs.
HEIGHT	69.2 inches without roof rack
	INTERIOR VOLUME
FRONT	INTERIOR VOLUME 59.7 cu. ft.
FRONT REAR	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft.
FRONT REAR COMB	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft. 118.4 cu. ft.
FRONT REAR COMB MAX CARGO AREA	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft.
FRONT REAR COMB MAX CARGO AREA MAXIMUM PAYLOAD CAPACITY	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft. 118.4 cu. ft.
FRONT REAR COMB MAX CARGO AREA	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft. 118.4 cu. ft. 85.1 cu. ft. (max cargo behind front seats)
FRONT REAR COMB MAX CARGO AREA MAXIMUM PAYLOAD CAPACITY	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft. 118.4 cu. ft. 85.1 cu. ft. (max cargo behind front seats) 1,630 lbs.
FRONT REAR COMB MAX CARGO AREA MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)	INTERIOR VOLUME59.7 cu. ft.58.7 cu. ft.118.4 cu. ft.85.1 cu. ft. (max cargo behind front seats)1,630 lbs.EPA MILEAGE EST. (MPG)
FRONT REAR COMB MAX CARGO AREA MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) CITY	INTERIOR VOLUME 59.7 cu. ft. 58.7 cu. ft. 118.4 cu. ft. 85.1 cu. ft. (max cargo behind front seats) 1,630 lbs. EPA MILEAGE EST. (MPG) 15

NEW FEATURES & CHANGES:

• Standard - Simple Fleet Key (includes 4 Keys)

• Optional – Remote Keyless Entry Key-Fob (includes 4-key fobs

SAFETY:

- Industry Exclusive 75 mph Rear Crash
- Ultra High Strength Boron Steel Safety Cell Construction
- Optional Level III & IV NIJ Ballistic Panels certified for LAPD special threat rounds
- Standard Anti-Stab plates in front seat backs

DURABILITY:

• Two times durability testing, proven real-world durability results

PERFORMANCE:

- Standard Full-Time Intelligent AWD
- Payload Capacity 1,630 lbs

Ford Police Interceptor Utility 3.5L Ecoboost AWD







MAKE & MODEL	Ford Police Interceptor Ecoboost Utility AWD	
SALES CODE	K8A, 99T	
	POWERTRAIN INFORMATION	
CUBIC INCHES 214		
LITERS	3.5	
HORSEPOWER SAENET	3.5 365 @ 5500 RPM	
ALTERNATOR	220 AMP	
_		
TORQUE	350 @ 1500-5250 RPM	
BATTERY	750 CCA	
TRANSMISSION	6-Speed Electronic Automatic	
AXLE RATIO	3.16:1 with All-Wheel Drive	
STEERING	Electric Power Assist Rack-and-Pinion	
TURNING CIRCLE (CURB TO CURB)	38.8 ft.	
TIRE SIZE, LOAD & SPEED RATING	P245/55/R18, 103V M+S Goodyear Eagle RS-A	
GROUND CLEARANCE, MINIMUM	6.4 inches	
BRAKE SYSTEM	Power, Dual Front Pistons/Single Rear Piston, ABS	
FUEL CAPACITY	18.6 Gallons/70.4 Liters	
GENERAL MEASUREMENTS		
WHEELBASE	112.6 inches	
LENGTH	197.1 inches	
CURB WEIGHT	4,775 lbs.	
HEIGHT	69.2 inches without roof rack	
INTERIOR VOLUME		
FRONT	59.7 cu. ft.	
REAR	58.7 cu. ft.	
СОМВ	118.4 cu. ft.	
MAX CARGO AREA	85.1 cu. ft. (max cargo behind front seats)	
MAXIMUM PAYLOAD CAPACITY		
(INCLUDING PASSENGERS)	1,580 lbs.	
	EPA MILEAGE EST. (MPG)	
CITY	15	
HIGHWAY	20	
COMBINED	17	
MA	MANUFACTURER VEHICLE HIGHLIGHTS	

NEW FEATURES & CHANGES:

• Standard - Simple Fleet Key (includes 4 Keys)

• Optional – Remote Keyless Entry Key-Fob (includes 4-key fobs)

SAFETY:

- Industry Exclusive 75mph Rear Crash
- Ultra High Strength Boron Steel Safety Cell Construction
- Optional Level III & IV NIJ Ballistic Panels Certified for LAPD special threat rounds
- Standard Anti-Stab plates in front seat backs

DURABILITY:

• Two times durability testing, proven real world durability results

PERFORMANCE:

- Standard Full-Time Intelligent AWD
- Payload Capacity 1,580 lbs
- EcoBoost engine with 365 hp and 350 lb/ft torque

Ford F150 Police Responder 3.5L







MAKE & MODEL	Ford F150 Police Responder
SALES CODE	W1P
	POWERTRAIN INFORMATION
CUBIC INCHES	213
LITERS	3.5
HORSEPOWER SAENET	375 @ 5000 RPM
ALTERNATOR	240 AMP
TORQUE	470 @ 3500 RPM
BATTERY	800 CCA
TRANSMISSION	10-Speed SelectShift automatic
AXLE RATIO	3.55:1
STEERING	Electric Power Assist Rack-and-Pinion
TURNING CIRCLE (CURB TO CURB)	47.1 ft.
TIRE SIZE, LOAD & SPEED RATING	P275/65R18, 110S
GROUND CLEARANCE, MINIMUM	9.3 inches
BRAKE SYSTEM	Power - Dual Piston Calipers Front, Single Piston Calipers Rear, 4 Circuit
	and ABS
FUEL CAPACITY	23.0 Gallons/87 Liters
GENERAL MEASUREMENTS	
WHEELBASE	145.0 inches
LENGTH	231.9 inches
CURB WEIGHT	5,060 lbs.
HEIGHT	77.2 inches without roof rack
	INTERIOR VOLUME
FRONT	79.9 cu. ft.
REAR	51.9 cu. ft.
СОМВ	131.8 cu. ft.
MAX CARGO AREA	52.8 cu. ft.
MAXIMUM PAYLOAD CAPACITY	2,030 lbs.
(INCLUDING PASSENGERS)	
	EPA MILEAGE EST. (MPG)
CITY	TBD
HIGHWAY	TBD
COMBINED	TBD
MA	NUFACTURER VEHICLE HIGHLIGHTS
NEW FEATURES: The 2018 Ford F-150 Police Responder [™] is the first-ever pursuit-rated pickup truck to market ¹ , designed with nearly seven decades of experience spent on the road with American law enforcement. But this vehicle isn't limited by the "road" part. Proven FX4 off-road capability includes a purpose-tuned suspension, electronic-locking rear axle and underbody skid plates. Unique upgrades include calipers, brake pad-friction material and front stabilizer bar for improved braking and handling. Best total interior passenger volume, front/rear shoulder room, front/rear hip room and rear leg room of any pursuit-rated vehicle. SAFETY:	

- Curve Control
- Rear View Camera with Dynamic Hitch Assist Keyless Entry
- Perimeter Alarm DURABILITY:

• Standard Anti-Stab plates in front seat backs

• Off-Road tuned shock absorbers

• Underbody skid plates • Upgraded stabilizer bar, front • Best payload capacity (2,030 lbs) and best towing capacity (7,000 lbs) of any pursuit-rated vehicle²

- PERFORMANCE:
- Powerful 3.5L EcoBoost[®] engine generates 375 horsepower and 470 lb.-ft. of torque, highest of any pursuit-rated vehicle • 10-Speed Transmission
- Available transmission settings include selectable drive modes: Tow/Haul, Snow/Wet, EcoSelect and Sport • Unique brake pad-friction material
- 240 amp alternator

Pursuit rating to be tested in official evaluations conducted by the Michigan State Police and Los Angeles County Sheriff's Department scheduled for Fall 2017. Based on 2017 model-year ratings 1. 2.

Ford Police Responder Hybrid Sedan







MAKE & MODEL	Ford Police Responder Hybrid Sedan								
SALES CODE	POA								
	POWERTRAIN INFORMATION								
CUBIC INCHES	122								
LITERS	2.0								
HORSEPOWER SAENET	188 hp (combined)								
ALTERNATOR	165 AMP								
TORQUE	129 @ 4000 RPM								
BATTERY	590 CCA								
TRANSMISSION	eCVT (automatic)								
AXLE RATIO	2.57:1								
STEERING	Electric Power Assist Rack-and-Pinion								
TURNING CIRCLE (CURB TO CURB)	37.6 ft.								
TIRE SIZE, LOAD & SPEED RATING	P235/50R17, 96W								
GROUND CLEARANCE, MINIMUM	6.3 inches								
BRAKE SYSTEM	ABS & regenerative braking – dual piston front calipers with vented front								
	rotors								
FUEL CAPACITY	14.0 Gallons/53.0 Liters								
	GENERAL MEASUREMENTS								
WHEELBASE	112.2 inches								
LENGTH	191.8 inches								
CURB WEIGHT	3,820 lbs.								
HEIGHT	58.5 inches								
	INTERIOR VOLUME								
FRONT	55.2 cu. ft.								
REAR	47.6 cu. ft.								
СОМВ	102.8 cu. ft.								
MAX CARGO AREA	12.0 cu. ft.								
MAXIMUM PAYLOAD CAPACITY	N/A								
(INCLUDING PASSENGERS)									
	EPA MILEAGE EST. (MPG)								
CITY	40								
HIGHWAY	36								
COMBINED	38								
MANUFACTURER VEHICLE HIGHLIGHTS									

NEW FEATURES:

A Greener Shade of Blue™

Destined to Be the First-Ever Pursuit-Rated Hybrid¹ police vehicle to market. Ideal for local patrol use, the Ford Police Responder™ Hybrid Sedan provides a capable option that delivers multiple potential benefits. These include potential fuel savings and reduced CO_2 emissions³, as well as potential fewer fill-ups – resulting in less vehicle downtime to keep your vehicles and officers on the road. Our scenario shows potential savings of nearly \$3,900 per year, per vehicle. See www.fordpoliceresponder.com for details and to run your own scenarios.

SAFETY:

- Standard Police Engine Idle feature
- Standard Rear View Camera
- Standard Anti-Stab plates in front seat backs

DURABILITY:

• Two times durability testing

PERFORMANCE:

- Pursuit calibrated powertrain
- Police-tuned Regenerative Braking System · Heavy duty suspension components, upgraded braking and cooling

Pursuit rating to be tested in official evaluations conducted by the Michigan State Police and Los Angeles County Sheriff's Department scheduled for Fall 2017. Burning a gallon of E10 ethanol fuel produces about 17.68 pounds of CO₂ emitted from the fossil fuel content, according to data provided by the U.S. Energy 2. Information Administration (http://ford.to/eiareport).

- Standard Individual Tire Pressure Monitoring System
- Optional Level IIIa NIJ Ballistic Panels

VEHICLE DYNAMICS TESTING

TESTING OBJECTIVE

To determine each vehicle's high-speed pursuit or emergency response handling characteristics and performance in comparison to the other vehicles in the test group. The course used is a 2mile road-racing type configuration, containing hills, curves, and corners. The course simulates actual conditions encountered in pursuit or emergency driving situations in the field, with the exception of other traffic. The evaluation is a true test of the success or failure of the vehicle manufacturers to offer vehicles that provide the optimum balance between handling (suspension components), acceleration (usable horsepower), and braking characteristics.

TESTING METHODOLOGY

Each vehicle is driven a total of 32 timed laps, using four separate drivers, each driving an eight lap series. The final score for the vehicle is the combined average (from the four drivers) of the five fastest laps for each driver during the eight lap series.



Grattan Raceway, 7201 Lessiter Road, Belding, MI 48809

616-691-7221

GRATTAN RACEWAY 2018 MODEL YEAR VEHICLE DYNAMICS SCHEDULE SEPTEMBER 18, 2017

	SCHWALM	AGEMA	SCHUTTER	MERCER
9:30 a.m.	Dodge Charger 3.6L 2.62 RWD	Ford PI Sedan 3.7L AWD	Ford PI Utility 3.5L Ecoboost AWD	Ford PI Sedan 3.5L FWD
9:50 a.m.	Chevrolet Tahoe 5.3L RWD	Chevrolet Tahoe 5.3L 4WD	Ford PI Utility 3.7L AWD	PASS
10:10 a.m.		Ford Special Service Police	Ford Police Responder Hybrid Sedan	Ford F-150 Police Responder
10:30 a.m.		Dodge Charger 5.7L 3.08 AWD	Dodge Charger 5.7L 2.62 RWD	Ford PI Sedan 3.5L Ecoboost AWD
10:50 a.m.	Ford PI Sedan 3.5L FWD	Dodge Charger 3.6L 2.62 RWD	Ford PI Sedan 3.7L AWD	Ford PI Utility 3.5L Ecoboost AWD
11:10 a.m.	Ford PI Utility 3.7L AWD		Chevrolet Tahoe 5.3L RWD	Chevrolet Tahoe 5.7L 4WD
11:30 a.m.	Ford F-150 Police Responder		Ford Special Service Police	Ford Police Responder Hybrid Sedan
11:50 a.m.	Dodge Charger 5.7L 2.62 RWD	Ford PI Sedan 3.5L Ecoboost AWD		Dodge Charger 5.7L 3.08 AWD
12:50 p.m.	Ford PI Utility 3.5L Ecoboost AWD	Ford PI Sedan 3.5L FWD	Dodge Charger 3.6L 2.62 RWD	Ford PI Sedan 3.7L AWD
1:10 p.m.		Chevrolet Tahoe 5.3L RWD	Chevrolet Tahoe 5.3L 4WD	Ford PI Utility 3.7L AWD
1:30 p.m.	Ford Police Responder Hybrid Sedan	Ford F-150 Police Responder		Ford Special Service Police
1:50 p.m.	Ford PI Sedan 3.5L Ecoboost AWD		Dodge Charger 5.7L 3.08 AWD	Dodge Charger 5.7L 2.62 RWD
2:10 p.m.	Ford PI Sedan 3.7L AWD	Ford PI Utility 3.5L Ecoboost AWD	Ford PI Sedan 3.5L FWD	Dodge Charger 3.6L 2.62 RWD
2:30 p.m.	Chevrolet Tahoe 5.3L 4WD	Ford PI Utility 3.7L AWD		Chevrolet Tahoe 5.3L RWD
2:50 p.m.	Ford Special Service Police	Ford Police Responder Hybrid Sedan	Ford F-150 Police Responder	
3:10 p.m.	Dodge Charger 5.7L 3.08 AWD	Dodge Charger 5.7L 2.62 RWD	Ford PI Sedan 3.5L Ecoboost AWD	

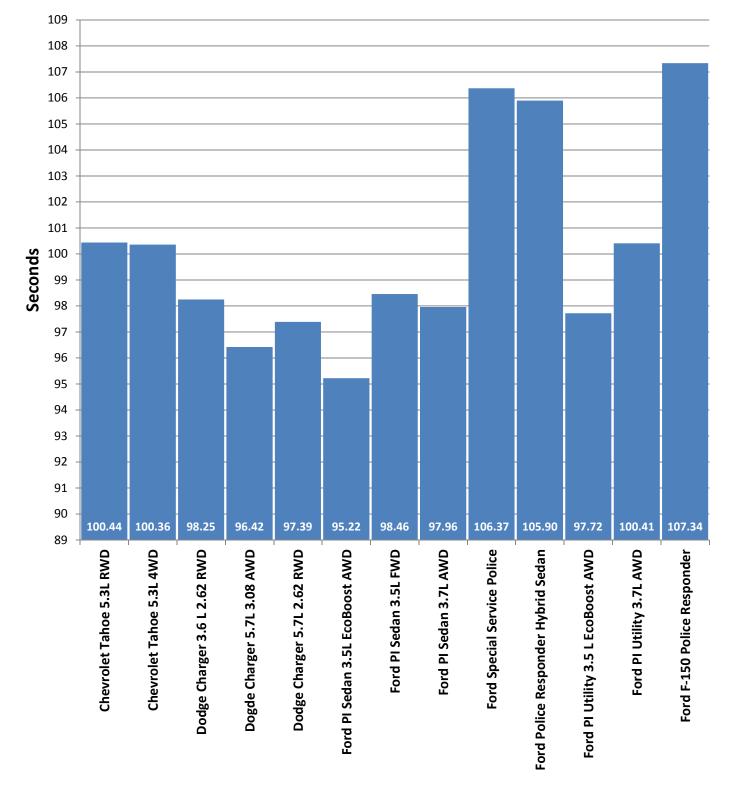
VEHICLE DYNAMICS TESTING ON SEPTEMBER 18, 2017

Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
	SCHWALM	01:41.01	01:40.54	01:40.51	01:40.36	01:40.67	01:40.62
- Chevrolet Tahoe 5.3L RWD	SCHUTTER	01:40.15	01:40.05	01:40.20	01:40.37	01:40.80	01:40.31
Chevrolet Tanoe 5.3L RWD	AGEMA	01:40.33	01:41.31	01:41.26	01:40.98	01:41.01	01:40.98
	MERCER	01:39.75	01:40.08	01:39.53	01:40.02	01:39.82	01:39.84
OVERALL AVERAGE							1:40.44
	AGEMA	01:40.74	01:40.98	01:40.65	01:40.72	01:40.66	01:40.75
Chauralat Takas 5 21 4WD	MERCER	01:39.63	01:39.69	01:39.77	01:39.40	01:39.64	01:39.63
Chevrolet Tahoe 5.3L 4WD	SCHUTTER	01:39.94	01:40.21	01:39.98	01:40.20	01:40.32	01:40.13
	SCHWALM	01:41.30	01:40.96	01:40.85	01:40.74	01:40.74	01:40.92
OVERALL AVERAGE							1:40.36
	SCHWALM	01:39.14	01:38.64	01:38.38	01:38.37	01:38.22	01:38.55
Dodgo Charger 2 6L 2 62 BWD	AGEMA	01:38.45	01:38.23	01:38.54	01:38.38	01:38.60	01:38.44
Dodge Charger 3.6L 2.62 RWD	SCHUTTER	01:37.93	01:37.55	01:37.91	01:37.71	01:37.91	01:37.80
	MERCER	01:37.59	01:37.97	01:38.63	01:38.44	01:38.39	01:38.20
OVERALL AVERAGE							1:38.25
	AGEMA	01:35.88	01:36.20	01:35.59	01:36.14	01:36.34	01:36.03
Dodge Charger 5.7L 3.08 AWD	MERCER	01:36.06	01:35.89	01:35.52	01:35.65	01:35.89	01:35.80
Douge Charger 5.7 L 5.06 AWD	SCHUTTER	01:36.67	01:37.21	01:36.82	01:36.76	01:37.00	01:36.89
	SCHWALM	01:36.86	01:37.14	01:37.04	01:37.13	01:36.68	01:36.97
OVERALL AVERAGE							1:36.42
	SCHUTTER	01:36.72	01:36.78	01:36.79	01:36.17	01:36.52	01:36.60
Dodge Charger 5.7L 2.62 RWD	SCHWALM	01:37.92	01:38.17	01:37.84	01:37.92	01:37.61	01:37.89
Douge Charger 5.7 L 2.02 NWD	MERCER	01:36.94	01:37.10	01:36.94	01:37.05	01:37.20	01:37.05
	AGEMA	01:37.28	01:38.13	01:38.30	01:38.19	01:38.30	01:38.04
OVERALL AVERAGE							1:37.39
	MERCER	01:34.74	01:34.64	01:35.30	01:34.87	01:35.30	01:34.97
Ford PI Sedan 3.5L EcoBoost AWD	AGEMA	01:35.32	01:35.30	01:35.23	01:35.07	01:35.19	01:35.22
Toru Fi Sedan 3.32 ECOBOOSt AWD	SCHWALM	01:35.77	01:35.63	01:35.61	01:35.62	01:35.75	01:35.68
	SCHUTTER	01:34.67	01:34.62	01:35.16	01:35.26	01:35.30	01:35.00
OVERALL AVERAGE							1:35.22
	MERCER	01:37.92	01:37.93	01:37.93	01:37.86	01:37.96	01:37.92
Ford PI Sedan 3.5L FWD	SCHWALM	01:39.15	01:38.74	01:39.03	01:38.87	01:38.74	01:38.91
	AGEMA	01:38.62	01:38.68	01:38.30	01:38.34	01:38.81	01:38.55
	SCHUTTER	01:38.43	01:38.34	01:38.52	01:38.39	01:38.55	01:38.45
OVERALL AVERAGE							1:38.46

VEHICLE DYNAMICS TESTING ON SEPTEMBER 18,2017

Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
	AGEMA	01:38.70	01:38.96	01:38.60	01:38.33	01:37.80	01:38.48
Ford DI Coden 2 71 AM/D	SCHUTTER	01:37.36	01:37.42	01:37.66	01:37.55	01:37.66	01:37.53
Ford PI Sedan 3.7L AWD	MERCER	01:37.12	01:37.52	01:37.74	01:37.29	01:37.54	01:37.44
	SCHWALM	01:38.63	01:38.51	01:38.12	01:38.62	01:38.09	01:38.39
OVERALL AVERAGE							1:37.96
	AGEMA	01:42.69	01:43.29	01:43.86	01:44.26	01:43.58	01:43.54
Ford Special Service Police	SCHUTTER	01:41.25	01:41.98	01:42.71	01:43.00	01:42.77	01:42.34
Ford Special Service Folice	MERCER	01:47.07	01:48.05	01:49.50	01:49.40	01:50.24	01:48.85
	SCHWALM	01:50.18	01:50.57	01:51.25	01:50.93	01:50.87	01:50.76
OVERALL AVERAGE							1:46.37
	SCHUTTER	01:46.21	01:45.24	01:45.17	01:46.06	01:45.73	01:45.68
Ford Police Responder Hybrid Sedan	MERCER	01:44.86	01:45.17	01:45.16	01:45.12	01:44.90	01:45.04
Ford Police Responder Hybrid Sedan	SCHWALM	01:46.00	01:46.53	01:46.58	01:46.72	01:46.46	01:46.46
	AGEMA	01:46.07	01:46.32	01:46.88	01:46.38	01:46.39	01:46.41
OVERALL AVERAGE							1:45.90
	SCHUTTER	01:37.66	01:37.47	01:37.37	01:37.00	01:36.81	01:37.26
Ford DI Litility 2.51 Foo Poost AWD	MERCER	01:37.41	01:36.99	01:37.21	01:37.31	01:37.38	01:37.26
Ford PI Utility 3.5L EcoBoost AWD	SCHWALM	01:38.39	01:38.28	01:38.10	01:38.12	01:38.18	01:38.21
	AGEMA	01:38.11	01:38.17	01:38.25	01:38.08	01:38.17	01:38.16
OVERALL AVERAGE							1:37.72
	SCHUTTER	01:40.84	01:41.01	01:40.35	01:39.98	01:39.87	01:40.41
Ford DI Hility 2 71 AM/D	SCHWALM	01:40.93	01:40.84	01:40.68	01:40.61	01:40.73	01:40.76
Ford PI Utility 3.7L AWD	MERCER	01:39.97	01:39.79	01:39.37	01:39.50	01:39.73	01:39.67
	AGEMA	01:41.01	01:40.76	01:40.73	01:40.87	01:40.60	01:40.79
OVERALL AVERAGE							1:40.41
	MERCER	01:46.80	01:46.27	01:47.23	01:46.17	01:47.17	01:46.73
Ford F-150 Police Responder	SCHWALM	01:48.31	01:47.50	01:47.38	01:46.45	01:46.69	01:47.27
Ford F-150 Folice Responder	AGEMA	01:48.00	01:47.33	01:48.31	01:48.04	01:47.40	01:47.82
	SCHUTTER	01:48.19	01:47.75	01:48.34	01:47.09	01:46.47	01:47.57
OVERALL AVERAGE							1:47.34

2018 Model Year Vehicle Dynamics









ACCELERATION AND TOP SPEED TESTING

ACCELERATION TESTING OBJECTIVE

To determine the ability of each test vehicle to accelerate from a standing start to 60 mph, 80 mph, and 100 mph, and determine the distance to reach 100 mph and 120 mph.

ACCELERATION TESTING METHODOLOGY

Using a Race Logic Vbox 3i GPS based data collection unit, each vehicle is driven through four acceleration sequences, two northbound and two southbound, to allow for wind direction. The four resulting times for each target speed are averaged and the average times are used to derive scores for acceleration.

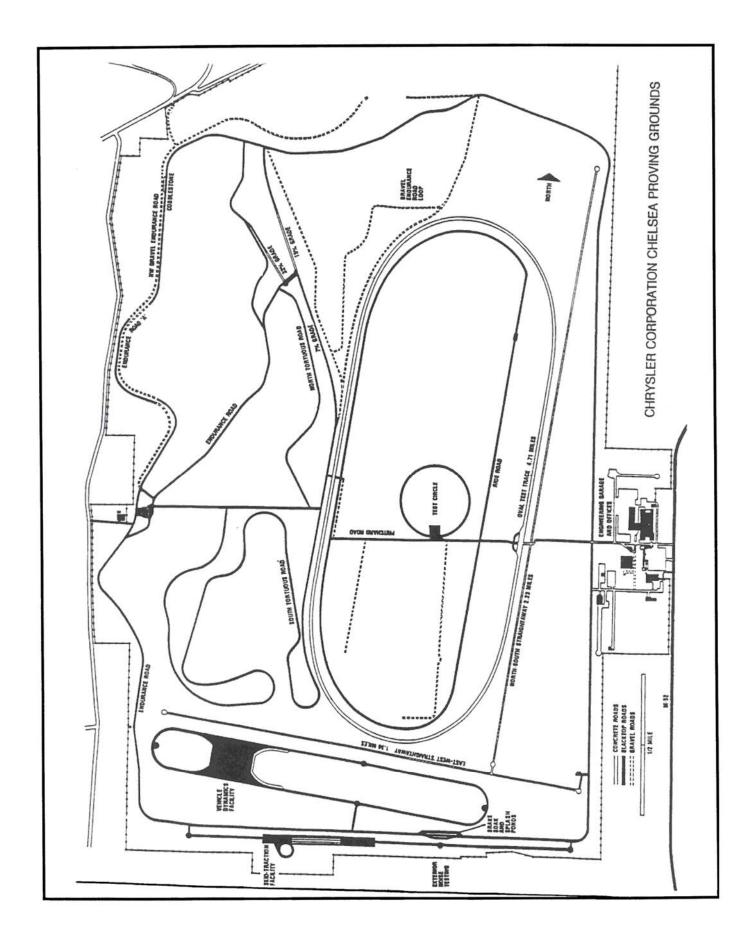
TOP SPEED TESTING OBJECTIVE

To verify the electronically limited top speed reported by the manufacturer attainable by each test vehicle within a distance of 14 miles from a standing start.

TOP SPEED TESTING METHODOLOGY

Following the fourth acceleration run, each test vehicle continues to accelerate to the top speed attainable within 14 miles from the start of the run. The highest speed attained within the 14 mile distance is considered the vehicle's top speed.





Chevrolet Tahoe 5.3L RWD

BEGINNING TIME: WIND VELOCITY:		<u>11:48 a.m</u> 4.7 mph	-	PERATURI D DIRECTIO					
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE				
0 - 60	7.55	7.95	7.68	7.72	7.73 seconds				
0 - 80	12.72	13.03	12.44	12.78	12.74 seconds				
0 – 100	19.38	19.74	18.49	19.44	19.26 seconds				
	DISTANCE TO REACH 100 MPH: 0.33 mile DISTANCE TO REACH 120 MPH: 0.75 mile								

TOP SPEED ATTAINED: 134 mph

DISTANCE TO REACH TOP SPEED: 8,549.37 ft. TIME TO REACH TOP SPEED: 57.10 seconds

Chevrolet Tahoe 5.3L 4WD

BEGINNING TIME: WIND VELOCITY:		<u>4:21 p.m.</u> <u>1.0 mph</u>		PERATURE D DIRECTIO	<u></u>
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	8.04	7.95	7.85	7.44	7.82 seconds
0 - 80	13.30	13.19	12.97	12.60	13.02 seconds
0 – 100	20.03	20.01	19.55	19.49	19.77 seconds

DISTANCE TO REACH 100 MPH: 0.35 mile DISTANCE TO REACH 120 MPH: 0.79 mile

TOP SPEED ATTAINED: 121 mph

DISTANCE TO REACH TOP SPEED: 4,356.95 ft. TIME TO REACH TOP SPEED: 34.85 seconds

Dodge Charger 3.6L 2.62 RWD

BEGINNING WIND VELC	<u>4:38 p.m.</u> 2.1 mph		PERATURE D DIRECTIO		
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	8.09	8.02	7.93	7.91	7.99 seconds
0 - 80	12.89	12.83	12.61	12.71	12.76 seconds
0 – 100	20.21	20.59	19.68	20.28	20.19 seconds

DISTANCE TO REACH 100 MPH:0.36 mileDISTANCE TO REACH 120 MPH:0.75 mile

TOP SPEED ATTAINED: 141 mph

DISTANCE TO REACH TOP SPEED:9,437.16 ft.TIME TO REACH TOP SPEED:61.13 seconds

Dodge Charger 5.7L 3.08 AWD

BEGINNING TIME: WIND VELOCITY:		<u>9:05 a.m.</u> 2.3 mph		PERATURI D DIRECTIO	
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	6.01	5.84	5.84	5.75	5.86 seconds
0 - 80	9.76	9.53	9.48	9.41	9.55 seconds
0 – 100	14.55	14.40	14.29	14.23	14.37 seconds

DISTANCE TO REACH 100 MPH:0.25 mileDISTANCE TO REACH 120 MPH:0.48 mile

TOP SPEED ATTAINED: 150 mph

DISTANCE TO REACH TOP SPEED: 8,173.56 ft. TIME TO REACH TOP SPEED: 49.19 seconds

Dodge Charger 5.7L 2.62 RWD

BEGINNING TIME: WIND VELOCITY:		<u>10:53 p.m</u> <u>1.2 mph</u>		PERATURE D DIRECTIO	
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	6.72	6.20	6.13	6.17	6.31 seconds
0 - 80	10.15	9.47	9.35	9.41	9.60 seconds
0 – 100	15.97	15.24	14.90	14.93	15.26 seconds

DISTANCE TO REACH 100 MPH: 0.26 mile DISTANCE TO REACH 120 MPH: 0.46 mile

TOP SPEED ATTAINED: 150 mph

DISTANCE TO REACH TOP SPEED:8,313.56 ft.TIME TO REACH TOP SPEED:50.42 seconds

Ford Police Interceptor Sedan 3.5L EcoBoost AWD

		<u>9:45 a.m.</u> <u>3.4 mph</u>		PERATURE D DIRECTIO	
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	5.94	5.61	5.59	5.56	5.68 seconds
0 - 80	9.22	8.85	8.82	8.76	8.91 seconds
0 – 100	13.81	13.48	13.34	13.37	13.50 seconds

DISTANCE TO REACH 100 MPH:0.23 mileDISTANCE TO REACH 120 MPH:0.47 mile

TOP SPEED ATTAINED: 149 mph

DISTANCE TO REACH TOP SPEED:7,212.93 ft.TIME TO REACH TOP SPEED:44.49 seconds

Ford Police Interceptor Sedan 3.5L FWD

-		<u>3:25 p.m.</u> 2.3 mph		PERATURE D DIRECTIO				
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE			
0 - 60	7.57	7.52	7.40	7.46	7.49 seconds			
0 - 80	12.22	12.26	11.97	12.12	12.14 seconds			
0 – 100	18.63	18.92	18.31	18.81	18.67 seconds			
DISTANCE TO REACH 100 MPH: 0.33 mile								

DISTANCE TO REACH 120 MPH: 0.71 mile

TOP SPEED ATTAINED: 132 mph

DISTANCE TO REACH TOP SPEED: 7,650.37 ft. TIME TO REACH TOP SPEED: 51.98 seconds

Ford Police Interceptor 3.7L AWD

BEGINNING TIME: WIND VELOCITY:		<u>3:38 p.m.</u> <u>1.3 mph</u>		PERATURE D DIRECTIO	
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	7.60	7.41	7.36	7.40	7.44 seconds
0 - 80	12.10	11.76	11.60	11.80	11.82 seconds
0 – 100	18.65	18.15	17.77	18.33	18.23 seconds

DISTANCE TO REACH 100 MPH: 0.32 mile DISTANCE TO REACH 120 MPH: 0.75 mile

TOP SPEED ATTAINED: 133 mph

DISTANCE TO REACH TOP SPEED: 9,558.39 ft. TIME TO REACH TOP SPEED: 61.62 seconds

Ford Special Service Police

BEGINNING TIME: WIND VELOCITY:		<u>11:17 a.m</u> 0.1 mph		PERATURE D DIRECTIO	<u> </u>
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	8.60	8.25	8.18	8.19	8.31 seconds

DISTANCE TO REACH 100 MPH: 0.54 mile **DISTANCE TO REACH 120 MPH:** 0.97 mile

13.13

20.69

0 - 80

0 - 100

13.49

20.72

12.95

20.19

13.17

20.73

13.19 seconds

20.58 seconds

TOP SPEED ATTAINED: 120 mph

DISTANCE TO REACH TOP SPEED: 4,963.24 ft. TIME TO REACH TOP SPEED: 39.01 seconds

BEGINNING TIME: WIND VELOCITY:		<u>4:53 p.m.</u> <u>1.7 mph</u>		PERATURI D DIRECTIO		
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE	
0 - 60	8.98	9.01	9.01	9.21	9.05 seconds	
0 - 80	14.79	14.58	14.61	15.07	14.76 seconds	
0 – 100	26.53	23.46	23.13	24.30	24.36 seconds	
DISTANCE TO REACH 100 MPH: 0.44 mile DISTANCE TO REACH 120 MPH: N/A						

Ford Police Responder Hybrid Sedan

TOP SPEED ATTAINED: 119 mph

DISTANCE TO REACH TOP SPEED:6,344.08 ft.TIME TO REACH TOP SPEED:48.73 seconds

Ford Police Interceptor Utility 3.5L EcoBoost AWD

BEGINNING TIME: WIND VELOCITY:		10:05 a.m. TEMPERA 1.1 mph WIND DIRE			<u> </u>	
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE	
0 - 60	6.33	6.27	6.30	6.29	6.30 seconds	
0 - 80	10.15	10.07	10.05	10.02	10.07 seconds	
0 – 100	15.72	15.62	15.47	15.55	15.59 seconds	

DISTANCE TO REACH 100 MPH: 0.27 mile DISTANCE TO REACH 120 MPH: 0.61 mile

TOP SPEED ATTAINED: 132 mph

DISTANCE TO REACH TOP SPEED:	5,883.51 ft.
TIME TO REACH TOP SPEED:	40.66 seconds

Ford Police Interceptor Utility 3.5L AWD

BEGINNING WIND VELC		<u>3:53 p.m.</u> <u>2.1 mph</u>			
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	7.88	7.82	7.78	7.76	7.81 seconds
0 - 80	12.57	12.65	12.31	12.47	12.50 seconds
0 – 100	19.80	20.46	19.35	19.94	19.89 seconds

DISTANCE TO REACH 100 MPH:0.35 mileDISTANCE TO REACH 120 MPH:0.1.01mile

TOP SPEED ATTAINED: 133 mph

DISTANCE TO REACH TOP SPEED:12,411.05 ft.TIME TO REACH TOP SPEED:78.65 seconds

BEGINNING WIND VELC		<u>2:43 p.m.</u> <u>1.9 mph</u>					
SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE		
0 - 60	6.31	6.33	6.24	6.29	6.29 seconds		
0 - 80	10.07	10.13	9.99	10.06	10.06 seconds		
0 – 100	16.09	17.04	16.63	16.98	16.69 seconds		

Ford F150 Police Responder

DISTANCE TO REACH 100 MPH: 0.31 mile DISTANCE TO REACH 120 MPH: N/A mile

TOP SPEED ATTAINED: 100 mph

DISTANCE TO REACH TOP SPEED: 1,636.12 ft. TIME TO REACH TOP SPEED: 16.09 seconds

SUMMARY OF ACCELERATION AND TOP SPEED

	Chevrolet Tahoe 5.3L RWD	Chevrolet Tahoe 5.3L 4WD	Dodge Charger 3.6L 2.62 RWD	Dodge Charger 5.7L 3.08 AWD	Dodge Charger 5.7L 2.62 RWD
ACCELERATION	-				
0 – 20 mph (seconds)	2.04	2.02	1.97	1.49	1.71
0 – 30 mph (seconds)	3.09	3.08	3.37	2.36	2.70
0 – 40 mph (seconds)	4.42	4.42	4.73	3.28	3.66
0 – 50 mph (seconds)	6.02	6.07	6.13	4.56	4.83
0 – 60 mph (seconds)	7.73	7.82	7.99	5.86	6.31
0 – 70 mph (seconds)	10.07	10.22	10.29	7.43	7.83
0 – 80 mph (seconds)	12.74	13.02	12.76	9.55	9.60
0 – 90 mph (seconds)	15.77	16.11	15.47	11.84	12.31
0 – 100 mph (seconds)	19.29	19.77	20.19	14.37	15.26
TOP SPEED (mph)	134	121	141	150	150
DISTANCE TO REACH					
100 mph (miles)	.33	.35	.36	.25	.26
120 mph (miles)	.75	.79	.75	.48	.46
Top Speed (ft.)	8,549.37	4,356.95	9,437.16	8,173.56	8,313.56
QUARTER MILE					
Time (seconds)	16.09	16.17	16.17	14.47	14.72
Speed (mph)	91.07	90.16	92.08	99.97	98.20





SUMMARY OF ACCELERATION AND TOP SPEED

	Ford PI Sedan 3.5L EcoBoost AWD	Ford PI Sedan 3.5L FWD	Ford PI Sedan 3.7L AWD	Ford Special Service Police	Ford Police Responder Hybrid Sedan			
ACCELERATION								
0 – 20 mph (seconds)	1.50	1.96	1.77	2.11	2.37			
0 – 30 mph (seconds)	2.25	2.95	2.72	3.11	3.55			
0 – 40 mph (seconds)	3.14	4.21	4.03	4.59	5.02			
0 – 50 mph (seconds)	4.18	5.67	5.40	6.19	6.86			
0 – 60 mph (seconds)	5.68	7.49	7.44	8.31	9.05			
0 – 70 mph (seconds)	7.24	9.79	9.53	10.53	11.62			
0 – 80 mph (seconds)	8.91	12.14	11.82	13.19	14.76			
0 – 90 mph (seconds)	11.13	14.86	14.70	16.63	18.79			
0 – 100 mph (seconds)	13.50	18.67	18.23	20.58	24.36			
TOP SPEED (mph)	149	132	133	120	119			
DISTANCE TO REACH								
100 mph (miles)	.23	.33	.32	.54	.44			
120 mph (miles)	.47	.71	.75	.97	N/A			
Top Speed (ft.)	7,212.93	7,650.37	9,558.39	4,963.24	6,344.08			
QUARTER MILE	QUARTER MILE							
Time (seconds)	14.14	15.80	15.62	16.36	17.02			
Speed (mph)	102.38	93.14	92.70	89.26	85.94			



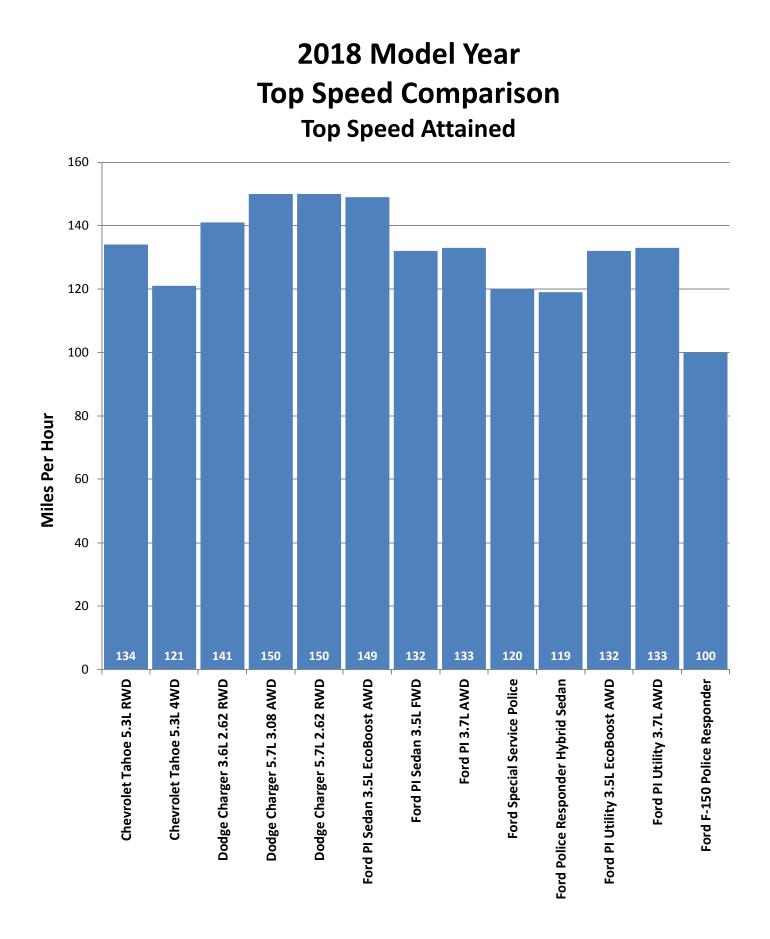


SUMMARY OF ACCELERATION AND TOP SPEED

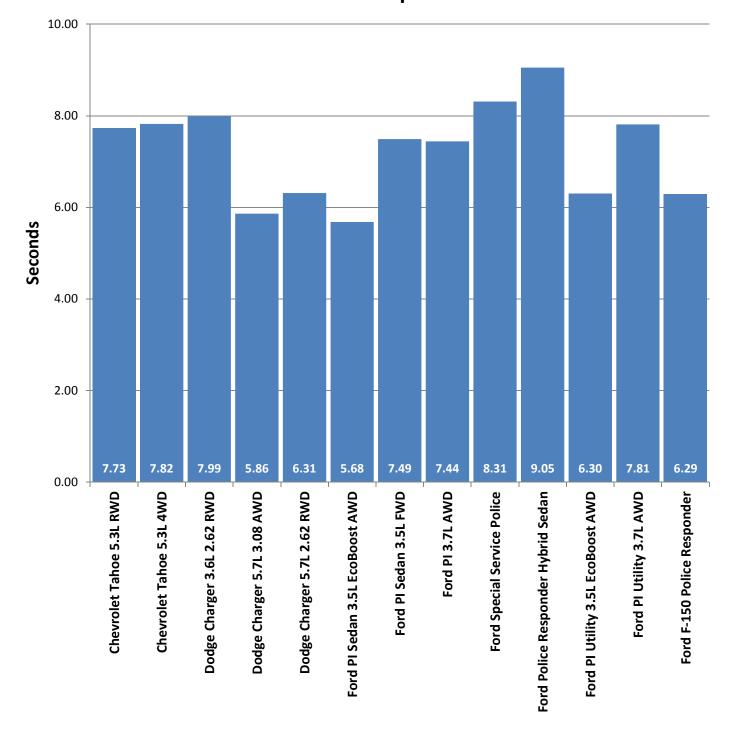
	Ford PI Utility 3.5L EcoBoost AWD	Ford PI Utility 3.7L AWD	Ford F-150 Police Responder
ACCELERATION	•		
0 – 20 mph (seconds)	1.60	1.80	1.70
0 – 30 mph (seconds)	2. 43	2.79	2.59
0 – 40 mph (seconds)	3.44	4.16	3.57
0 – 50 mph (seconds)	4.61	5.64	4.80
0 – 60 mph (seconds)	6.30	7.81	6.29
0 – 70 mph (seconds)	8.10	9.96	7.97
0 – 80 mph (seconds)	10.07	12.50	10.06
0 – 90 mph (seconds)	12.67	15.86	12.61
0 – 100 mph (seconds)	15.59	19.89	16.69
TOP SPEED (mph)	132	133	100
DISTANCE TO REACH	•		
100 mph (miles)	.27	.35	.31
120 mph (miles)	.61	1.01	N/A
Top Speed (ft.)	5,883.51	12,411.05	1,636.12
QUARTER MILE			
Time (seconds)	14.75	15.92	14.80
Speed (mph)	97.36	90.20	97.40





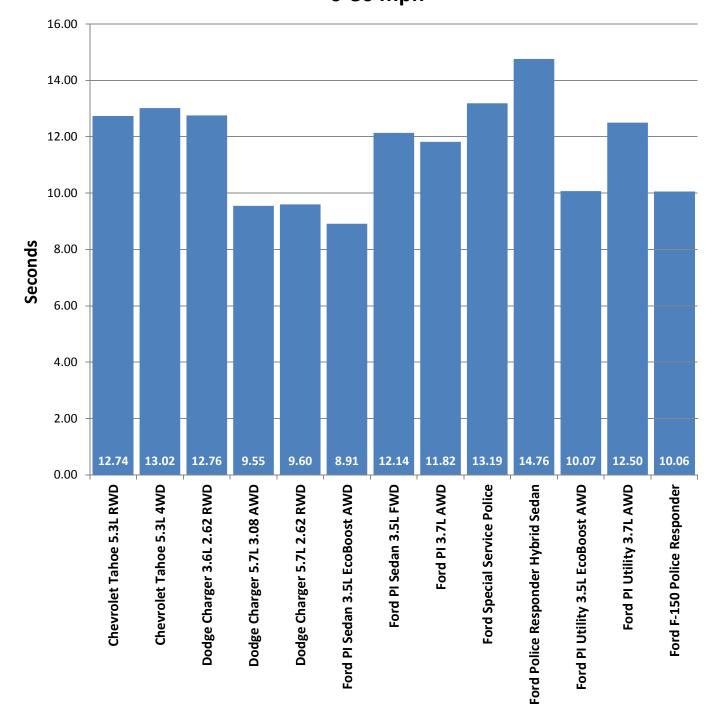


2018 Model Year Acceleration Comparison Acceleration Times 0-60 mph

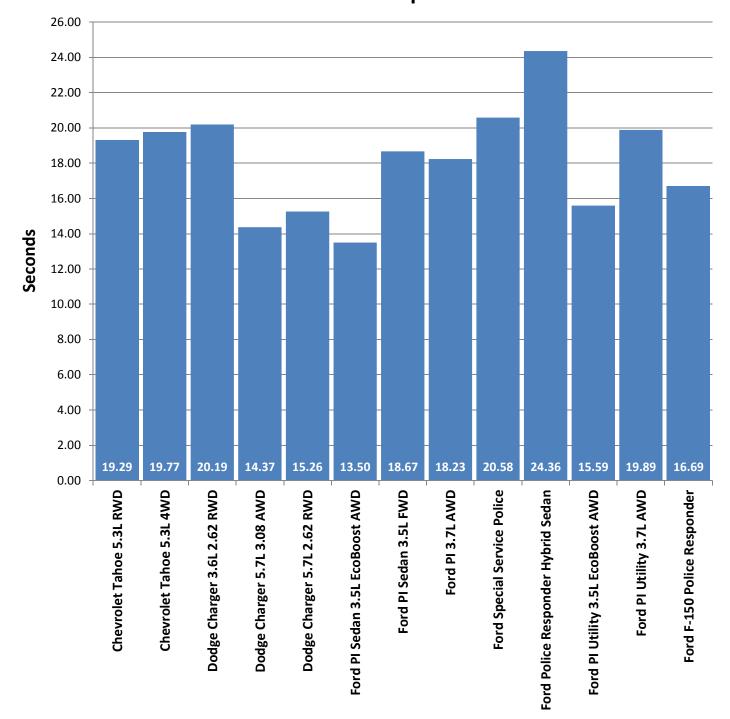


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2018 Model Year Acceleration Comparison Acceleration Times 0-80 mph



2018 Model Year Acceleration Comparison Acceleration Times 0-100 mph



BRAKE TESTING OBJECTIVE

To determine the deceleration rate attained by each test vehicle on twenty 60 - 0 mph full ABS stops. Each vehicle is scored on the average deceleration rate it achieves.

BRAKE TESTING METHODOLOGY

This year's brake testing was performed on a different surface than prior years. This year's surface had a measured coefficient of friction of .87 as compared to the historical surface's .93 coefficient of friction. This year's surface was also only long enough to perform one brake application from either end of the surface. The test began with "cold" brakes. The first run was performed in a westbound direction, the second run in an eastbound direction across the same surface. Once 10 stops were performed, the vehicle was driven 1.6 miles at 45 mph to allow the brakes to cool before the second sequence. After the cooling distance, the 10 stops are repeated. The exact initial velocity at the beginning of each of the 60 - 0 mph decelerations, and the exact distance required to make each stop, is recorded by means of a Race Logic Vbox 3i GPS based data collection unit. To ensure consistency, the same driver performs all the stops on every vehicle. The data resulting from the twenty stops is used to calculate the average deceleration rate which is the vehicle's score for the test.

DECELERATION RATE FORMULA

					Initial	Velocity*(IV)	squared	_	-	(IV) ²
Dece	leration F	Rate (DR)	=	2 time	s Stopping Dis	stance (S	SD) =		2 (SD)
EXAN	IPLE:									
Initial Velocity = Stopping Distance =			89.175 ft/s (60.8 mph x 1.4667*) 171.4 ft.							
	DR	=	(IV) ² 2(SD)		=	<u>(89.175)²</u> 2(171.4)	=	<u>7952.24</u> 342.8	=	23.198 ft/s ²

Once a vehicle's average deceleration rate has been determined, it is possible to calculate the stopping distance from any given speed by utilizing the following formula:

Select a speed; translate that speed into feet per second; square the feet per second figure by multiplying it by itself; divide the resultant figure by 2; divide the remaining figure by the average deceleration rate of the vehicle in question.

EXAMPLE:

 $60 \text{ mph} = 88.002 \text{ ft/s} \times 88.002 = 7744.352 / 2 = 3872.176 / 23.198 \text{ ft/s}^2 = 166.9 \text{ ft}.$

*Initial velocity must be expressed in terms of feet per second, with 1 mile per hour being equal to 1.4667 feet per second.





Chevrolet Tahoe 5.3L RWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 2:18 p.m.	TEMPERATURE: 80° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.49	158.79	24.79
2	60.57	154.04	25.62
3	60.58	149.18	26.46
4	60.46	149.49	26.30
5	**Not re	ecorded due to data coll	ection error
6	60.46	148.64	26.45
7	60.10	145.37	26.73
8	60.00	146.25	26.48
9	59.86	151.73	25.40
10	60.42	147.43	26.63
AV	/ERAGE DECELER	26.10 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.09	144.31	26.91
2	60.59	149.01	26.50
3	60.41	144.76	27.11
4	60.45	146.50	26.83
5	60.06	146.01	26.57
6	60.04	145.24	26.70
7	60.48	148.63	26.47
8	60.18	143.40	27.16
9	60.53	148.38	26.56
10	59.76	138.66	27.70
A۷	ERAGE DECELER	26.85 ft/s ²	

Phase III

OVERALL AVERAGE DECELERATION RATE: 26.49 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 146.2 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Chevrolet Tahoe 5.3L 4WD

TEST LOCATION: FCA Proving Grounds	DATE: September 17, 2016
BEGINNING TIME: 10:37 a.m.	TEMPERATURE: 67° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.32	149.76	26.13
2	60.72	151.23	26.19
3	60.49	157.96	24.92
4	60.03	150.14	25.81
5	60.62	150.80	26.21
6	60.39	151.35	25.92
7	60.46	151.01	26.03
8	60.42	150.52	26.09
9	60.38	151.64	25.86
10	60.42	148.53	26.44
AV	ERAGE DECELEI	25.96 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.31	148.34	26.37
2	60.15	145.72	26.70
3	60.20	150.58	25.88
4	60.49	147.89	26.61
5	60.19	147.66	26.39
6	60.28	150.64	25.94
7	59.85	142.53	27.03
8	60.17	147.65	26.37
9	60.42	149.11	26.33
10	60.38	147.91	26.51
AV	AVERAGE DECELERATION RATE:		26.41 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 26.19 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 147.9 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Dodge Charger 3.6L 2.62 RWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017	
BEGINNING TIME: 11:30 a.m.	TEMPERATURE: 72° F	

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.93	132.61	29.13
2	60.52	142.35	27.67
3	60.06	134.63	28.82
4	60.21	136.15	28.64
5	60.27	135.16	28.91
6	60.16	137.53	28.30
7	**Not recorded due to data collection error		
8	60.16	131.25	29.66
9	60.09	132.19	29.38
10	60.01	131.85	29.38
AV	/ERAGE DECELER	28.88 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.26	131.67	29.66
2	59.81	134.30	28.65
3	**Not recorded due to data collection error		
4	60.82	137.22	28.99
5	59.50	130.26	29.23
6	60.10	131.14	29.63
7	60.16	132.00	29.49
8	60.11	132.83	29.26
9	60.11	129.04	30.12
10	60.16	131.14	29.68
AVERAGE DECELERATION RATE:			29.41 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 29.14 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 132.9 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Dodge Charger 5.7L 3.08 AWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 1:03 p.m.	TEMPERATURE: 79° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.80	139.16	27.64
2	60.05	138.70	27.96
3	60.42	137.15	28.63
4	60.20	135.98	28.66
5	60.06	137.28	28.26
6	60.21	136.42	28.58
7	60.29	137.87	28.36
8	60.09	136.89	28.37
9	59.77	130.80	29.37
10	59.58	132.42	28.83
AVERAGE DECELERATION RATE:			28.47 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	**Not re	ecorded due to data coll	ection error
2	**Not re	ecorded due to data coll	ection error
3	59.98	133.70	28.94
4	59.95	140.10	27.59
5	60.04	137.65	28.17
6	59.75	132.74	28.93
7	59.96	135.20	28.60
8	59.90	133.98	28.80
9	59.73	132.20	29.02
10	60.09	136.71	28.41
AV	ERAGE DECELE	28.56 ft/s ²	

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.51 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 135.8 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Dodge Charger 5.7L 2.62 RWD

	TEMPERATURE: 77° F
TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.68	135.61	28.25
2	60.05	135.21	28.68
3	59.52	132.44	28.77
4	60.43	137.00	28.67
5	60.01	135.11	28.66
6	59.69	131.83	29.07
7	60.46	136.17	28.87
8	59.82	131.60	29.25
9	60.19	134.06	29.07
10	60.03	134.16	28.89
AV	/ERAGE DECELEI	28.82 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.56	140.29	28.12
2	60.00	133.34	29.04
3	61.20	147.83	27.25
4	62.73	154.53	27.39
5	60.11	132.47	29.34
6	59.99	133.12	29.08
7	59.44	129.73	29.29
8	60.12	132.41	29.36
9	59.70	128.36	29.86
10	59.57	131.00	29.14
AV	ERAGE DECELEI	RATION RATE:	28.79 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.81 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 134.4 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Police Interceptor Sedan 3.5L EcoBoost AWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 2:42 p.m.	TEMPERATURE: 80° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.27	149.03	26.22
2	60.19	148.94	26.16
3	59.91	143.53	26.90
4	60.43	144.91	27.10
5	60.06	148.06	26.21
6	60.17	143.49	27.14
7	60.42	142.58	27.54
8	60.09	139.89	27.76
9	60.65	142.80	27.71
10	59.84	141.47	27.23
AVERAGE DECELERATION RATE:		RATION RATE:	27.00 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.00	141.00	27.46
2	59.85	139.61	27.60
3	59.47	136.50	27.87
4	59.97	140.69	27.50
5	60.02	141.86	27.31
6	60.13	143.06	27.18
7	60.55	142.72	27.63
8	60.15	140.94	27.61
9	60.25	137.59	28.38
10	59.81	140.11	27.46
AV	ERAGE DECELEI	27.60 ft/s ²	

Phase III

OVERALL AVERAGE DECELERATION RATE: 27.30 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 141.8 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Police Interceptor Sedan 3.5L FWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 9:47 a.m.	TEMPERATURE: 64° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.35	140.10	27.96
2	58.07	115.84	31.31
3	59.99	131.44	29.45
4	59.79	134.54	28.58
5	60.29	133.83	29.22
6	60.11	131.86	29.47
7	60.02	132.23	29.30
8	60.16	135.39	28.75
9	60.38	129.80	30.21
10	60.37	135.48	28.93
AV	ERAGE DECELER	RATION RATE:	29.32 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.07	134.95	28.76
2	59.52	131.31	29.02
3	60.23	137.05	28.50
4	60.32	140.67	27.82
5	59.84	133.66	28.82
6	60.16	134.43	28.95
7	59.64	128.62	29.74
8	60.16	132.89	29.29
9	60.36	135.58	28.90
10	60.31	134.68	29.04
AV	ERAGE DECELEI	28.88 ft/s ²	

Phase III

OVERALL AVERAGE DECELERATION RATE: 29.10 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 133.2 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Police Interceptor Sedan 3.7L AWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 10:11 a.m.	TEMPERATURE: 67° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.88	129.92	29.68
2	60.19	134.74	28.92
3	60.22	132.01	29.54
4	59.76	132.44	29.00
5	60.46	134.99	29.12
6	60.31	134.51	29.08
7	60.03	136.41	28.41
8	60.29	134.76	29.01
9	60.18	136.23	28.59
10	59.93	129.14	29.91
AV	ERAGE DECELEI	RATION RATE:	29.13 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.49	131.76	28.89
2	59.85	133.00	28.97
3	60.35	135.60	28.89
4	59.98	135.61	28.53
5	60.28	138.72	28.17
6	60.00	133.46	29.01
7	60.03	132.45	29.26
8	60.47	137.52	28.60
9	60.43	134.24	29.26
10	59.44	131.45	28.91
AV	ERAGE DECELEI	28.85 ft/s ²	

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.99 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 133.6 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Special Service Police

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 1:30 p.m.	TEMPERATURE: 79 ° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.49	136.76	28.78
2	60.40	136.37	28.78
3	60.40	138.23	28.39
4	60.54	137.12	28.75
5	60.47	136.22	28.87
6	60.81	140.85	28.24
7	60.50	138.98	28.32
8	60.52	138.27	28.49
9	60.71	138.51	28.62
10	59.97	134.58	28.74
AV	ERAGE DECELEI	RATION RATE:	28.60 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.20	138.68	28.10
2	60.23	143.18	27.25
3	59.99	132.88	29.13
4	60.23	132.90	29.36
5	60.29	135.99	28.75
6	60.51	133.70	29.46
7	60.10	130.86	29.69
8	60.21	134.86	28.91
9	60.08	134.00	28.97
10	10 **Not recorded due to data collection error		
AVERAGE DECELERATION RATE: 28.85			28.85 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.72 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 134.8 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Police Responder Hybrid Sedan

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 11:55 a.m.	TEMPERATURE: 76° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.27	132.87	29.41
2	60.09	138.02	28.14
3	60.40	138.05	28.43
4	60.20	137.16	28.42
5	60.10	140.23	27.71
6	60.14	134.90	28.84
7	60.21	139.48	27.96
8	60.16	139.49	27.00
9	60.07	138.17	28.09
10	60.06	137.34	28.25
AV	ERAGE DECELER	RATION RATE:	28.32 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.21	136.52	28.56
2	60.19	135.64	28.73
3	60.11	136.55	28.46
4	60.22	136.26	28.62
5	60.52	138.21	28.50
6	60.08	134.49	28.87
7	60.11	134.89	28.81
8	59.78	135.72	28.32
9	60.07	137.98	28.13
10	60.07	135.04	28.74
AV	ERAGE DECELE	RATION RATE:	28.57 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.44 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 136.2 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Police Interceptor Utility 3.5L EcoBoost AWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 3:04 p.m.	TEMPERATURE: 80° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.60	137.26	28.78
2	60.13	136.17	28.56
3	60.44	145.50	27.01
4	59.93	137.19	28.16
5	59.78	135.22	28.43
6	60.15	134.43	28.95
7	60.25	139.08	28.07
8	60.36	138.57	28.28
9	59.96	134.61	28.73
10	60.07	136.80	28.37
AV	ERAGE DECELEI	RATION RATE:	28.34 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.22	136.22	28.63
2	59.56	133.21	28.64
3	59.99	136.71	28.32
4	59.95	134.69	28.70
5	59.87	133.96	28.78
6	60.04	134.16	28.90
7	60.07	137.44	28.24
8	60.01	134.87	28.72
9	60.43	139.14	28.23
10	60.41	138.33	28.37
AV	ERAGE DECELE	RATION RATE:	28.55 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.44 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 136.2 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford Police Interceptor Utility 3.7L AWD

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017
BEGINNING TIME: 11:06 a.m.	TEMPERATURE: 72° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.98	133.65	28.95
2	60.12	133.38	29.15
3	60.11	130.27	29.83
4	59.22	125.46	30.07
5	60.37	130.18	30.11
6	59.88	131.55	29.31
7	60.30	135.51	28.86
8	60.00	128.70	30.09
9	59.78	126.80	30.31
10	60.02	131.18	29.54
AV	/ERAGE DECELEI	29.62 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.21	133.96	29.11
2	60.27	129.76	30.11
3	60.10	132.87	29.24
4	60.18	132.61	29.37
5	60.28	130.51	29.95
6	60.12	130.55	29.78
7	60.47	135.28	29.07
8	59.83	128.99	29.91
9	59.94	129.55	29.83
10	59.64	127.48	30.01
AV	ERAGE DECELEI	RATION RATE:	29.64 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 29.63 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 130.7 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

Ford F-150 Police Responder

TEST LOCATION: FCA Proving Grounds	DATE: September 16, 2017	
BEGINNING TIME: 9:22 a.m.	TEMPERATURE: 64° F	

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.70	153.62	25.80
2	59.68	141.90	27.00
3	60.23	144.85	26.94
4	59.39	142.75	26.58
5	60.19	144.00	27.06
6	60.73	145.86	27.20
7	59.95	140.09	27.60
8	60.09	144.54	26.87
9	60.10	143.73	27.03
10	60.36	142.96	27.41
AV	ERAGE DECELER	26.95 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.55	139.41	27.36
2	60.24	141.71	27.54
3	59.70	140.39	27.31
4	59.97	141.46	27.35
5	60.29	144.20	27.11
6	59.97	140.04	27.62
7	60.16	144.04	27.02
8	60.16	143.59	27.11
9	59.94	144.04	26.83
10	61.38	149.48	27.11
AVERAGE DECELERATION RATE:			27.24 ft/s ²

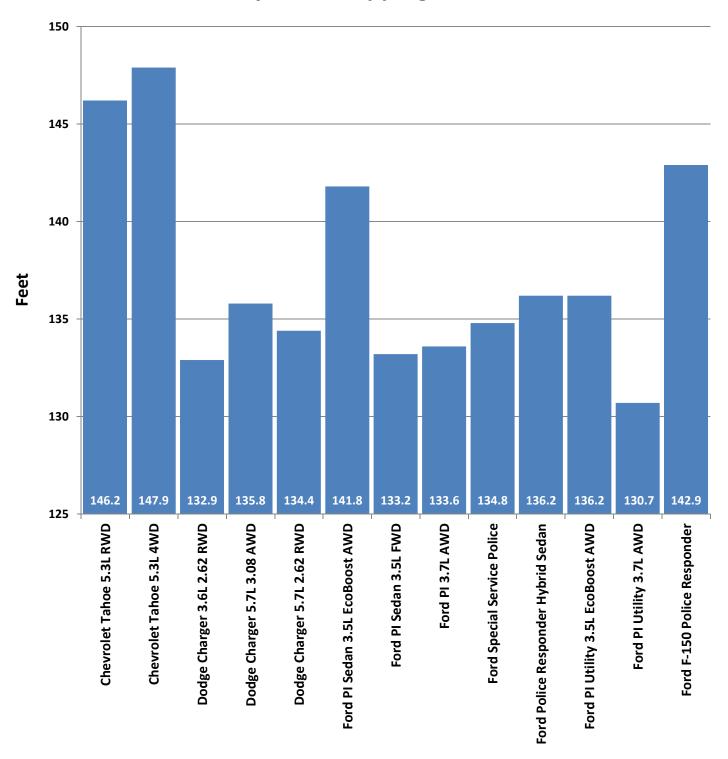
Phase III

OVERALL AVERAGE DECELERATION RATE: 27.09 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 142.9 feet

Evidence of Severe Fading?	No
Vehicle Stopped in Straight Line?	Yes
Vehicle Stopped Within Correct Lane?	Yes

2018 Model Year Brake Testing Projected Stopping Distance





ERGONOMICS AND COMMUNICATIONS

TESTING OBJECTIVE

Rate each test vehicle's ability to:

- 1. Provide a suitable environment for the patrol officer in the performance of his/her assigned tasks.
- 2. Accommodate the required communications and emergency warning equipment and assess the relative difficulty of such installations.

TESTING METHODOLOGY

Utilizing the Ergonomics and Communications Form (as seen on page 78 of this book) each category is graded on a scale of 1-10, with 1 representing "totally unacceptable," 5 representing "average," and 10 representing "superior." The scores given are averaged to minimize personal prejudice for or against any given vehicle.

For the ergonomics portion of the form, a minimum of four officers (in this case eight) individually and independently compare and score each test vehicle in several areas. These include comfort, convenience, instrumentation, and visibility.

The installation and communications portion of the evaluation is conducted by personnel from the Michigan Public Safety Communications System. The scores are given based on the relative difficulty of the necessary installations.

COMMUNICATIONS

	Chevrolet Tahoe	Dodge Charger	Ford Police Interceptor Sedan	Ford Police Responder Hybrid	Ford Police Interceptor Utility	Ford F150 Police Responder
COMMUNICATIONS					-	
Dashboard Accessibility	9.33	9.39	8.78	7.61	9.00	9.56
Trunk Accessibility	8.86	9.07	7.64	6.93	9.00	7.57
Engine Compartment	8.33	7.67	5.89	5.67	7.89	9.00
TOTAL SCORES	8.84	8.71	7.44	6.74	8.63	8.71

ERGONOMICS

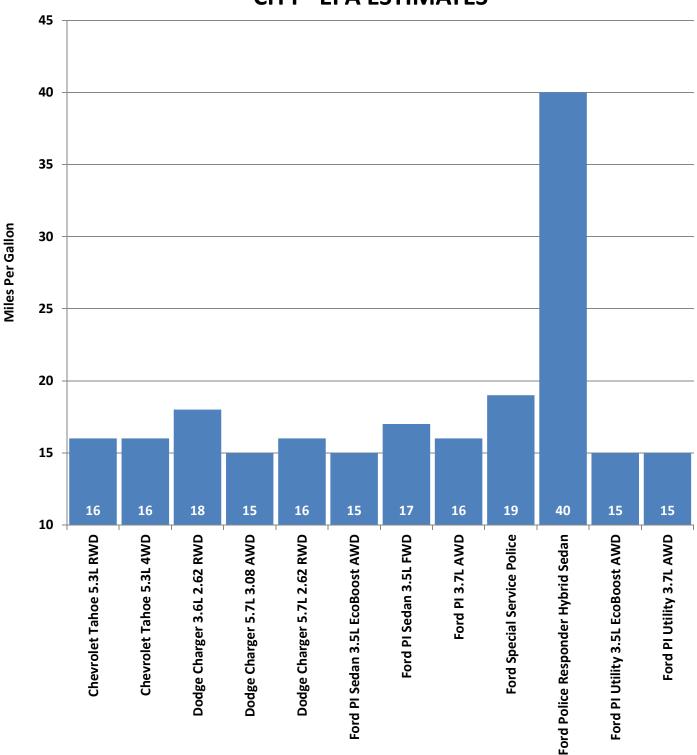
	Chevrolet Tahoe	Dodge Charger	Ford Police Interceptor Sedan	Ford Police Responder Hybrid	Ford Police Interceptor Utility	Ford F150 Police Responder
FRONT SEAT			-	-	-	-
Padding	9.13	8.25	7.75	7.50	7.75	8.50
Depth of Bucket Seat	9.13	7.75	6.63	6.63	6.63	7.50
Adjustability – Front to Rear	9.25	9.13	8.57	6.75	8.75	7.50
Upholstery	8.38	8.13	7.50	7.50	7.75	7.63
Bucket Seat Design	9.13	8.25	6.25	6.38	6.75	7.38
Headroom	9.88	8.63	8.75	9.14	9.13	9.88
Seatbelts	8.25	9.00	8.88	8.63	9.00	8.75
Ease of Entry and Exit	8.75	8.00	7.57	6.75	8.13	8.88
Overall Comfort Rating	9.38	8.38	7.63	7.00	8.13	8.50
REAR SEAT						
Leg room – Front seat back	9.25	6.38	6.13	5.50	6.50	9.63
Ease of Entry and Exit	9.00	6.25	5.88	5.75	6.38	8.38
INSTRUMENTATION			-		-	-
Clarity	9.38	9.13	8.50	8.25	8.63	8.88
Placement	9.13	9.13	8.88	8.13	8.63	8.75
VEHICLE CONTROLS			-		-	-
Pedals, Size, and Position	9.50	9.50	8.25	8.25	8.25	9.25
Power Window Switch	9.00	9.38	9.00	7.75	9.25	9.00
Stability/Traction Control Switch	8.43	8.88	2.50	2.50	2.50	8.63
Automatic Door Lock Switch	8.63	9.25	8.75	9.13	9.00	7.63
Outside Mirror Controls	8.63	9.13	9.13	8.75	8.88	8.38
Steering Wheel, Size, Tilt Release, and Surface	8.75	9.25	7.88	7.75	7.88	8.00
Heat/AC Vent Placement and Adjustability	9.13	8.75	8.38	7.75	8.53	8.88
Trunk Release Switch	N/A	8.88	7.29	8.25	N/A	N/A
VISIBILITY						
Front (Windshield)	8.75	9.00	7.88	7.88	8.50	8.75
Rear (Back Window)	8.13	8.25	6.75	7.25	7.13	8.75
Left Rear Quarter	7.25	8.00	7.63	7.56	8.43	8.43
Right Rear Quarter	7.38	7.63	7.75	7.50	7.63	8.71
Outside Mirrors	8.00	8.13	7.38	7.00	8.00	9.00
TOTAL AVERAGE SCORE	8.78	8.48	7.60	7.36	7.85	8.54

FUEL ECONOMY

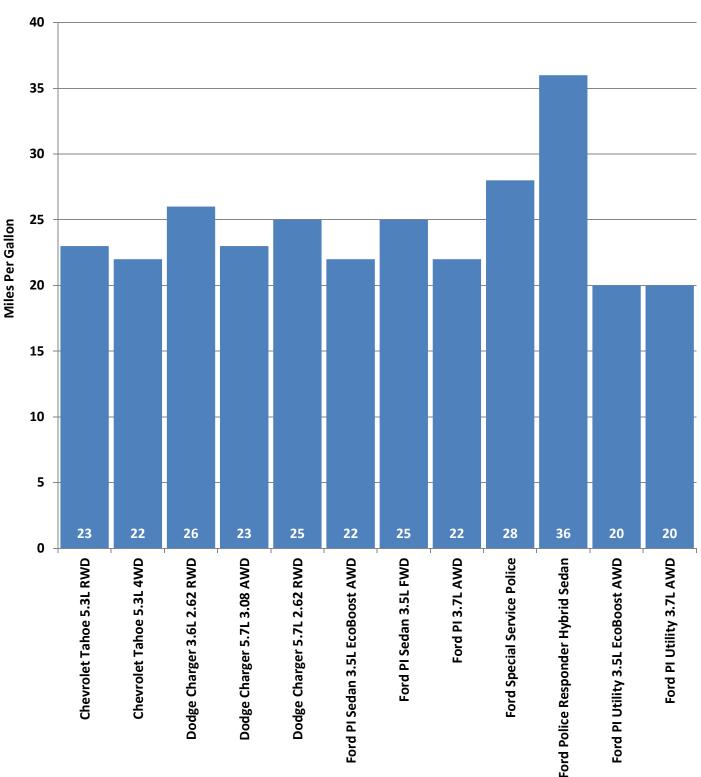
The respective auto manufacturers provided estimates for fuel economy as shown below.

This information has been certified by the Environmental Protection Agency.

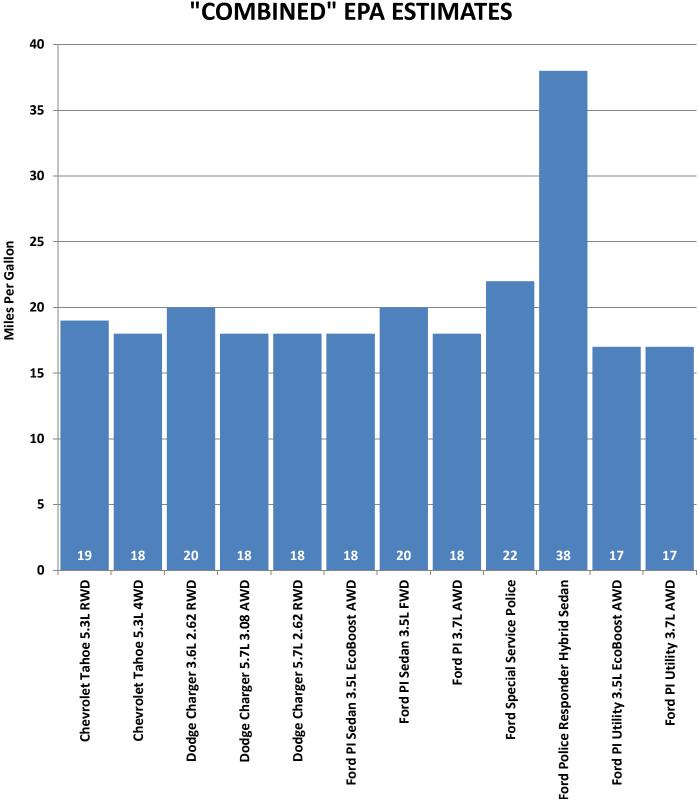
Vehicles		E.P.A. Miles Per Gallon			
Make/Model/Engine	City Label	Highway Label	Combined Label		
Chevrolet Tahoe 5.3L RWD	16	23	19		
Chevrolet Tahoe 5.3L 4WD	16	22	18		
Dodge Charger 3.6L 2.62 RWD	18	26	20		
Dodge Charger 5.7L 3.08 AWD	15	23	18		
Dodge Charger 5.7L 2.62 RWD	16	25	18		
Ford Police Interceptor Sedan 3.5L Ecoboost AWD	15	22	18		
Ford Police Interceptor Sedan 3.5L FWD	17	25	20		
Ford Police Interceptor Sedan 3.7L AWD	16	22	18		
Ford Special Service Police	19	28	22		
Ford Police Responder Hybrid Sedan	40	36	38		
Ford Police Interceptor Utility 3.5L EcoBoost AWD	15	20	17		
Ford Police Interceptor Utility 3.7L AWD	15	20	17		
Ford F-150 Police Responder	TBA	TBA	TBA		



2018 FUEL ECONOMY COMPARISON "CITY" EPA ESTIMATES



2018 FUEL ECONOMY COMPARISON "HIGHWAY" EPA ESTIMATES



2018 FUEL ECONOMY COMPARISON "COMBINED" EPA ESTIMATES



MOTORCYCLES

Like many law enforcement agencies, the Michigan State Police used motorcycles until late 1941 and then switched to automobiles. The Michigan State Police rekindled interest in motorcycles for day to day patrol operations in 1993. In 2004, Michigan State Police headquarters asked if we had additional information as a resource for our purchasing decisions regarding motorcycles. During that time, we were given direction to expand vehicle testing to include motorcycle testing. It should be noted, the only motorcycles we test are those provided by the manufacturers which are purpose built as police motorcycles. We would like to thank BMW Motorrad USA, Harley-Davidson Motorcycles, Yamaha Motorcycles and Zero Motorcycles for participating and providing their assistance in preparation for this year's successful testing program.

We are constantly evaluating our various tests with the manufacturers and the law enforcement industry to provide you with the most objective test data available. While there are many similarities to automobiles, there are also quite a few differences.

This year we conducted motorcycle brake testing on our track at the Precision Driving Unit in Lansing. Our facility provides a very flat and consistent surface for this type of testing. Thus, better information is provided to the reader as to the braking capabilities of each motorcycle.

The motorcycle dynamics portion was again conducted at Grattan Raceway. Grattan Raceway provides a two mile road course that has several different curves and elevation changes that tests the motorcycles high speed handling characteristics and durability during pursuit and emergency response riding. See the motorcycle dynamics test objectives for further information.

When looking at the data, it is very important for the reader to apply your mission requirements to the motorcycle you are considering so you may make an appropriate decision. This report is not an endorsement of products, but a means of learning what's available for your officers so they can do their job more effectively and safely. If anything in this report requires further explanation or clarification, please call or write the Michigan State Police Precision Driving Unit.







BMW R1200 RT-P



SALES CODE17RPPOWERTRAIN INFORMATIONCUBIC INCHES71.4LITERS1.170HORSEPOWER SAENET125 bhp @ 7,750 RPMALTERNATOR540WTORQUE92 @ 6,500 RPMBATTERY2 x 16 Ah (AGM no-maintenance batteries)TRANSMISSIONConstant Mesh 6-Speed with Helical Cut GearsSUSPENSION TYPE (FRONT)BMW Telelever, 37 mm stanchions, central spring strutSUSPENSION TYPE (REAR)BMW Paralever; travel related damping single strutTURNING CIRCLE (CURB TO CURB)16 ft.TIRE SIZE, LOAD & SPEED RATING GROUND CLEARANCE, MINIMUM5.2 inchesBAKE SYSTEMBMW partial-integral ABS with traction controlFUEL CAPACITY6.6 Gallons/25 LitersWHEELBASE LENGTHLENGTH55.7 inchesHEIGHT55.7 inchesHEIGHT55.7 inchesMAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)1,091 lbs.EPA MILEAGE EST. (MPG)CITY60 MPG (@ 44 mph)	MAKE & MODEL	BMW R 1200 RT-P				
POWERTRAIN INFORMATION CUBIC INCHES 71.4 LITERS 1.170 HORSEPOWER SAENET 125 bhp @ 7,750 RPM ALTERNATOR 540W TORQUE 92 @ 6,500 RPM BATTERY 2 x 16 Ah (AGM no-maintenance batteries) TRANSMISSION Constant Mesh 6-Speed with Helical Cut Gears SUSPENSION TYPE (FRONT) BMW Telelever, 37 mm stanchions, central spring strut SUSPENSION TYPE (REAR) BMW Paralever; travel related damping single strut TURNING CIRCLE (CURB TO CURB) 16 ft. TIRE SIZE, LOAD & SPEED RATING 120-70 ZR 17 (Front) / 180-55 ZR 17 (Rear) GROUND CLEARANCE, MINIMUM 5.2 inches BMW partial-integral ABS with traction control 5.2 inches WHEELBASE 58.5 inches LENGTH 55.7 inches MAXIMUM PAYLOAD CAPACITY 55.7 inches MAXIMUM PAYLOAD CAPACITY 1,091 lbs. (INCLUDING PASSENGERS) EPA MILEAGE EST. (MPG) CITY 60 MPG (@ 44 mph)						
CUBIC INCHES LITERS71.4 1.170HORSEPOWER SAENET ALTERNATOR TORQUE BATTERY TRANSMISSION SUSPENSION TYPE (FRONT) SUSPENSION TYPE (REAR) TURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATING GROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY71.4 1.170 125 bhp @ 7,750 RPM 2 x 16 Ah (AGM no-maintenance batteries) Constant Mesh 6-Speed with Helical Cut Gears BMW Telelever, 37 mm stanchions, central spring strut BMW Paralever; travel related damping single strut 16 ft. 120-70 ZR 17 (Front) / 180-55 ZR 17 (Rear) 5.2 inches BMW partal-integral ABS with traction control 6.6 Gallons/25 LitersWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)58.5 inches 55.7 inches 1,091 lbs.UTYEPA MILEAGE EST. (MPG) 60 MPG (@ 44 mph)						
LITERS1.170HORSEPOWER SAENET125 bhp @ 7,750 RPMALTERNATOR540WORQUE92 @ 6,500 RPMBATTERY2 x 16 Ah (AGM no-maintenance batteries)TRANSMISSIONConstant Mesh 6-Speed with Helical Cut GearsSUSPENSION TYPE (FRONT)BMW Telelever, 37 mm stanchions, central spring strutSUSPENSION TYPE (REAR)BMW Paralever; travel related damping single strutTURNING CIRCLE (CURB TO CURB)16 ft.TIRE SIZE, LOAD & SPEED RATING GROUND CLEARANCE, MINIMUM120-70 ZR 17 (Front) / 180-55 ZR 17 (Rear)BMW partial-integral ABS with traction controlFUEL CAPACITY6.6 Gallons/25 LitersWHEELBASE LENGTH58.5 inchesWHEELBASE LENGTH58.5 inchesMAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)55.7 inchesTUR57.7 inchesTUR60 lbs.CITY60 MPG (@ 44 mph)						
HORSEPOWER SAENET125 bhp @ 7,750 RPMALTERNATOR540WORQUE92 @ 6,500 RPMBATTERY2 x 16 Ah (AGM no-maintenance batteries)TRANSMISSIONConstant Mesh 6-Speed with Helical Cut GearsSUSPENSION TYPE (FRONT)BMW Telelever, 37 mm stanchions, central spring strutSUSPENSION TYPE (REAR)BMW Paralever; travel related damping single strutTURNING CIRCLE (CURB TO CURB)16 ft.TIRE SIZE, LOAD & SPEED RATING120-70 ZR 17 (Front) / 180-55 ZR 17 (Rear)GROUND CLEARANCE, MINIMUMBAKK SYSTEMBRAKE SYSTEMBMW partial-integral ABS with traction controlFUEL CAPACITY58.5 inchesWHEELBASE58.5 inchesLENGTH55.7 inchesTEST WEIGHT650 lbs.HEIGHT55.7 inchesMAXIMUM PAYLOAD CAPACITY1,091 lbs.CITY60 MPG (@ 44 mph)						
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	EPA MILEAGE EST. (MPG)					
	CITY	60 MPG (@ 44 mph)				
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COMBINED Not Provided by Manufacturer	COMBINED					

MANUFACTURER HIGHLIGHTS

The R 1200 RT-P is the new generation police motor derived from the K52 platform, inheriting all of the platform improvements of the civil model including standard ABS brakes with traction control, rain or road riding modes and heated handlebar grips.

The new generation contains a multi-plate self-adjusting wet clutch that can be changed in an hour, completely new emergency lighting system (including take-down lights and alley lights), handlebar switch system, power management system for all authority accessories, plus a host of special conveniences including electronic radio box latch release, saddlebag lights, alternating headlight system, selectable emergency light start sequence, narrower/lower seat with heat-reflective material (18° cooler in sun), adjustable dashboard angle, integrated PTT/PTPA switches, etc.

All R 1200 RT-P models include tire pressure monitoring, heated seat, electronic cruise control and weather protection in the standard package. The test motorcycle options include Ride Modes Pro, enabling the selection of riding modes Rain, Road or Dynamic, Dynamic ESA electronic suspension control, Gear Shift Assist Pro, which allows you to shift up or down once the motorcycle is in motion without use of the clutch and additional fog lights, which also wig-wag with the headlight when there is sufficient ambient light (controlled by dashboard light sensor).

The R 1200 RT-P includes 6,000 mile oil change service intervals and comes with a 3-year/60,000 mile limited warranty at no extra charge.

Harley-Davidson FLHP



MAKE & MODEL	Harley-Davidson FLHP (Road King)					
SALES CODE	Not Provided by Manufacturer					
POWERTRAIN INFORMATION						
CUBIC INCHES	107 CID					
LITERS	1746 CC					
HORSEPOWER SAENET	Not Provided by Manufacturer					
ALTERNATOR	48 AMP (producing approximately 28 Amps at idle)					
TORQUE	111.4 @ 3250 RPM					
BATTERY	12VDC, 28 Amp/Hour, 270 CCA					
TRANSMISSION	6 Speed Manual / Assist and Slip Wet 9 Plate Clutch					
SUSPENSION TYPE (FRONT)	Hydraulic 49 mm Telescopic Forks with Showa® Dual Bending Valve					
	Technology improving dampening performance					
SUSPENSION TYPE (REAR)	Swing Arm with Hand Adjustable Emulsion Rear Shocks					
TURNING CIRCLE (CURB TO CURB)	<17'					
TIRE SIZE, LOAD & SPEED RATING	Dunlop D408F 130/80B17 (65H) (Front)					
	Dunlop D407T 180/65B16 (81H) (Rear)					
GROUND CLEARANCE, MINIMUM	5.1 inches					
BRAKE SYSTEM	Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating					
	Rotors – Single Fixed Rear)					
FUEL CAPACITY	6.0 Gallons/22.71 Liters					
	GENERAL MEASUREMENTS					
WHEELBASE	64 inches					
LENGTH	96.5 inches					
TEST WEIGHT	845 lbs.					
HEIGHT	56.3 inches					
MAXIMUM PAYLOAD CAPACITY	CV/WP 1.260 lbs / Dovland 515 lbs					
(INCLUDING PASSENGERS)	GVWR – 1,360 lbs. / Payload – 515 lbs.					
EPA MILEAGE EST. (MPG)						
CITY	Not Provided by Manufacturer					
HIGHWAY	Not Provided by Manufacturer					
COMBINED	45 MPG					

MANUFACTURER HIGHLIGHTS

- 107 CID Milwaukee 8[™] Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled.
- Fan-Assisted Oil Cooler
- Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch
- Showa® Dual Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel
- Hand Adjustable Rear Emulsion Shocks
- Dual Halogen Headlight
- Stealth Lighting Capable (rider controlled-disables all lights except brake and instrumentation)
- Cruise Control
- Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED
- Digital Speed Readout with Speed Capture
- Gear Indicator
- Polycarbonate Windshield designed to breakaway with minimal impact force
- One-Touch Saddlebag Lid Latches
- Pivoting Footboards
- Reflex[™] electronically linked brake system with ABS (delinked below approximately 25 mph)
- Dunlop Multi-Tread Bead Retention Tires
- Long Stem True Vision Mirrors
- 2 Year Unlimited Mileage OE Warranty

Harley-Davidson FLHP Stage II



SALES CODENot Provided by ManufacturerPOWERTRAIN INFORMATIONCUBIC INCHES LITERS107 CIDLITERS1746 CCHORSEPOWER SAENET ALTERNATOR TORQUENot Provided by ManufacturerALTERNATOR TORQUE48 AMP (producing approximately 28 Amps at idle)BATTERY TURNING CIRCLE (CURB TO CURB) TURNING CIRCLE (CURB TO CURB)12VDC, 28 Amp/Hour, 270 CCAGROUND CLEARANCE, MINIMUM5.1 inches							
POWERTRAIN INFORMATION CUBIC INCHES 107 CID LITERS 107 CID HORSEPOWER SAENET 48 AMP (producing approximately 28 Amps at idle) ALTERNATOR 48 AMP (producing approximately 28 Amps at idle) TORQUE 111.4 @ 3250 RPM BATTERY 122 DC, 28 Amps Ampleur, 270 CCA SUSPENSION TYPE (FRONT) Hydraulic 49 mm Telescopic Forks with Showaß Dual Bending Valve Technology improving dampening performance SUSPENSION TYPE (REAR) Swing Arm with Hand Adjustable Emulsion Rear Shocks TURNING CIRCLE (CURB TO CURB) Unicip D408F 130/020817 (ESH) (Front) Dunicp D408F 130/020817 (ESH) (Front) Dunicp D408F 130/020817 (ESH) (Front) Dunicp D408F 130/020817 (ESH) (Front) Dunicp D408F 130/02081 - 515 lbs. FUEL CAPACITY 6.0 Galons22.7 Litters GENERAL MEASUREMENTS 9.6 inches 9.6 inches 9.6	MAKE & MODEL	Harley-Davidson FLHP (Road King) Stage 2					
CUBIC WCHES 107 CID LITERS 174 G.CC. Not Provided by Manufacturer 48 AMP (producing approximately 28 Amps at idle) TORQUE 111 4 (9) 3250 RPM BATTERY 124 CC. SUSPENSION TYPE (FRONT) 5 Speed Manual / Assist and Sip Wet 9 Plate Clutch HYdrauld 49 mm Telescopic Forks with Showa® Dual Bending Valve Technology improving dampening performance SUSPENSION TYPE (REAR) Speed Manual / Assist and Sip Wet 9 Plate Clutch Hydrauld 49 mm Telescopic Forks with Showa® Dual Bending Valve Technology improving dampening performance Swing Arm with Hand Adjustable Emulsion Rear Shocks 17 Dunicp D4037 130/60017 (65H) (Front) Dunicp D4037 130/6017 (65H) (Front) Brake System 6.0 callons/22.1 Liters GENERAL MEASUREMENTS 64 Inches WHEELBASE 64 Inches LENGTH 96.5 inches BATTERY S3.0 Inches WHEELBASE 64 Inches G5.0 inches 96.5 inches BATTERY 98.6 inches UNCLUNING PASSENCERS) EPA MILEAGE EST. (MPO) CITY Not Provided by Manufacturer	SALESCODE						
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ALTERNATOR ALTERNATOR 449 AMP (producing approximately 28 Amps at idle) 114.4@ 3260 RPM 12VDC, 28 Amp/Hour, 270 CCA 50 Speed Manual / Assist and Slip Wet Plate Clutch Hydraulic 49 mm Telescopic Forks with Showa@ Dual Bending Valve Technology improving dampening performance Suspension TYPE (FRONT) UINING CIRCLE (CURB TO CURB) SUSPENSION TYPE (REAR) Swing Arm with Hand Adjustable Emulsion UINING CIRCLE (CURB TO CURB) TURNING CIRCLE (CURB TO CURB) GROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY 6.0 Galons/22.71 Liters FUEL CAPACITY 6.0 Galons/22.71 Liters FUEL CAPACITY 6.0 Galons/22.71 Liters GENERAL MEASUREMENTS WHEELBASE 64 Inches 95 Sinches 45 Inches 64 Inches 96 Sinches 64 Sinches 65 Sinches 75 WHEELBASE 16 Sinches 75 Sinches 75 WHEELBASE 16 Sinches 75 Sinches 75 WHEELBASE 16 Sinches 75 WHEELBASE 16 Sinches 75 Sinches 75 WHEELBASE 16 Sinches 75 Sinches 75 WHEELBASE 16 Sinches 75 WHEELBASE 16 Sinches 75 Sinches 75 WHEELBASE 16 Sinches 75 Sin	-						
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SUSPENSION TYPE (FRONT) Hydraulic 49 mm Telescopic Forks with Showa@ Dual Bending Valve Technology improving dampening performance SUSPENSION TYPE (REAR) Swing Arm with Hand Adjustable Emulsion Rear Shocks TURNING CIRCLE (CURB TO CURB) 17 TIRE SUZE, LOAD & SPEED RATING Dunlop D408F 130/80B17 (65H) (Front) BRAKE SYSTEM Sufficient BRAKE SYSTEM Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating Rotors - Single Fixed Rear) FUEL CAPACITY 6.0 Gallons/22.71 Liters WHEELBASE 64 inches LENOTH 95.5 inches WHEELGASE 64 inches (NCLUDNO PASSENGERS) GWR - 1.360 lbs. / Payload - 515 lbs. CITY Not Provided by Manufacturer Not Provided by Manufacturer 45 MPG COMBINED MANUFACTURER HIGHLIGHTS H-D Mixeakee Eight™ Stage 2 Performance Engine Upgrades Kit Part # 2500056 - - Power Cam - - Combined MANUFACTURER HIGHLIGHTS H-D Mixeakee Eight™ Stage 2 Performance Engine Upgrades Kit Part # 2500058 - - Power Cam - - Combined - - Manufacturer - - Come Cam -							
Suspension TYPE (REAR) TURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATING Swing Arm with Hand Adjustable Emulsion Rear Shocks <17" Unlop D408F 130/80B17 (65H) (Front) Dunlop D407T 180/65B16 (81H) (Rear) 5.1 inches Swing Arm with Hand Adjustable Emulsion Rear Shocks <17" GROUND CLEARANCE, MINIMUM BRAKE SYSTEM Shinches Hydraulic Disc/Reflex** Electronically Linked with ABS (Dual Front Floating Rotors - Single Fixed Rear) FUEL CAPACITY 6.0 Gallons/22.71 Litters GENERAL MEASUREMENTS WHEELBASE LENGTH 96.5 inches 44 inches 96.3 inches MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) GWR - 1.360 lbs. / Payload - 515 lbs. CITY HIGHWAY Not Provided by Manufacturer Not Provided by Manufacturer COMBINED MANUFACTURER HIGHLIGHTS HD Milvauke Eight** Stage 2 Performance Engine Upgrade Kit Part # 2500058 • • Power Cam • Adjustable Push Rod Kit • Gaskets • + DH Milot W Caused Off Cancel State EPA Compliant (Speed Linked -15 mph) + Manufacturer 4 4100008C • • Tor IO Maxakee Bight ** Stage 2 Performance Engine Upgrade Kit Part # 2500058 • • Power Cam • Adjustable Push Rod Kit • Gaskets • • D Hight Gow W Colemer Part # 24000245 SE Pro Street Turer Part # 41000008C • •							
SUSPENSION TYPE (REAR) Swing Arm with Hand Adjustable Emulsion Rear Shocks TURNING CIRCLE (CIRB TO CURB) Swing Arm with Hand Adjustable Emulsion Rear Shocks TIRE SIZE, LOAD & SPEED RATING Dunlop D408F 130/80B17 (65H) (Front) Dunlop D407T 180/65B16 (81H) (Rear) 5.1 inches Hydraulic Disc/Reflex TM Electronically Linked with ABS (Dual Front Floating Rotors - Single Fixed Rear) 6.0 Gallons/22.71 Liters FUEL CAPACITY 6.0 Gallons/22.71 Liters 6.0 Gallons/22.71 Liters WHEELBASE 64 inches 96.5 inches LENGTH 845 lbs. 563 inches GWR - 1,360 lbs. / Payload - 515 lbs. GWR - 1,360 lbs. / Payload - 515 lbs. CITY Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer COMBINED MANUFACTURER HIGHLIGHTS H-D Milwaukes Eight TM Stage 2 Performance Engine Upgrade Kit Part # 2500058							
TURNING CIRCLE (CURB TO CURB) 417 TIRE SIZE, LOAD & SPEED RATING 517 BUND DUDD DUDB T30/0817 (65H) (Front) Dunlop D4087 130/0817 (65H) (Front) BRAKE SYSTEM Dunlop D4071 180/05516 (81H) (Rear) ST. 5.1 inches Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating Rotors - Single Fixed Rear) 6.0 Gallons/22.71 Liters GENERAL MEASUREMENTS 6.4 inches WHELBASE 64 inches LENGTH 96.5 inches Stain Sches 6.3 inches MAXIMUM PAYLOAD CAPACITY GVWR - 1,360 Ibs. / Payload - 515 Ibs. CITY Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer HOHWaukee Eight** Stage 2 Performance Engine Upgrade Kit Part # 2500058 Power Cam • Power Cam • Adjustable Pub Rod Kit • Adjustable Pub Rod Kit • Power Stage 2 Downloads 50 State EPA Compliant (Speed Linited ~15 mph) * Whaukee Eight*** Stage 2 Downloads 50 State EPA Compliant (Speed Linited ~15 mph) * Whaukee Eight*** Stage 2 Downloads 50 State EPA Compliant (Speed Linited ~15 mph) * What A Cleaner Part # 24400245 EP o Street Tuner Pa	SUSPENSION TYPE (REAR)						
TIRE SIZE, LOAD & SPEED RATING Dunlop D408F 130/80B17 (65H) (Front) GROUND CLEARANCE, MINIMUM Dunlop D407T 180/65B16 (81H) (Rear) S1. Inches Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating Rotors - Single Fixed Rear) FUEL CAPACITY 6.0 Gallons/22.71 Liters WHEELBASE 64 inches LENGTH 96.5 inches S45 inches 56.3 inches GWR – 1,360 ibs. / Payload – 515 lbs. GWR – 1,360 ibs. / Payload – 515 lbs. CITY Not Provided by Manufacturer MIGHWAY Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer COMBINED MANUFACTURER HIGHLIGHTS HD Milyatable Push Rot Kit Galers # 29200053 - Power Cam Adjustable Push Rot Kit - Adjustable Push Rot Kit Braf # 29200035 EPro Street Funer Part # 29400345 State EPA Compliant (Speed Limited ~115 mph) Urben straided by an authorized H-D Deler at the time of new which delivery, these kits do not impact the which Similar durant Competence on the Net Kit Bar and Sig # Pase Wet Curch • 107 CID Minutuke Right Competence main Barle Bay and Sig # Pase Wet Curch • Tomer and System, Competence main Bayes and Sig # Pase Wet Curch State Adjuater Barle Barle Barle Barle							
GROUND CLEARANCE, MINIMUM BRAKE SYSTEM Dunlop D407T 180/65B16 (31H) (Rear) 5.1 inches BRAKE SYSTEM Stinches FUEL CAPACITY 5.0 Gallons/22.71 Liters GENERAL MEASUREMENTS 6.4 inches WHEELBASE 6.4 inches LENGTH 845 lbs. TEST WEIGHT 845 lbs. HEIGHT 845 lbs. MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) GWWR – 1,360 lbs. / Payload – 515 lbs. CITY Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer Adjustable Public Not Provided by Manufacturer Not Provided by Manufacturer Not Provided by Manufacturer Adjustable Public Not State Sta		Dunlop D408F 130/80B17 (65H) (Front)					
GROUND CLEARANCE, MINIMUM 5.1 inches Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating Rotors – Single Fixed Rear) 6.0 Gallons/22.71 Liters FUEL CAPACITY 6.0 Gallons/22.71 Liters WHEELBASE 64 inches LENGTH 96.5 inches Stones 56.3 inches GWWR – 1,360 lbs. / Payload – 515 lbs. CITY Not Provided by Manufacturer MAXIMUM PAYLOAD CAPACITY Not Provided by Manufacturer MONIPOED Not Provided by Manufacturer MONIPOED Not Provided by Manufacturer MONIPOED Not Provided by Manufacturer MAXIMUM PAYLOAD CAPACITY Not Provided by Manufacturer Not Provided by Manufacturer So Sine MANUFACTURER HIGHLIGHTS 45 MPG H-D Milwaukee Eight ^{may} Stage 2 Performance Engine Upgrade Kit Part # 92500058 • • Power Cam • • Adjusable Push Rod Kit • • Boakets • • Dubler functional by an authorized 1+D Colaret at the time of new while delivery, these kits do not impact the while billing the except have and new system (Camput Part) • TOC Diminature BYtem). Compression ratio: 10.0.1, Electronic Sequential Por Fuel injecton System (ESPPIC) Single Cam design, Air an	,						
FUEL CAPACITY Rotors – Single Fixed Rear) FUEL CAPACITY 6.0 Gallons/22.71 Liters GENERAL MEASUREMENTS General Measurements WHEELBASE LENGTH 96.5 inches G5.3 inches 64 inches 96.5 inches 56.3 inches MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) GVWR – 1,360 lbs. / Payload – 515 lbs. CITY Not Provided by Manufacturer MAXIMUM PAYLOAD CAPACITY Not Provided by Manufacturer (INCLUDING PASSENGERS) FPA MILEAGE EST. (MPG) CITY Not Provided by Manufacturer COMBINED 45 MPG HOHWAY Not Provided by Manufacturer COMBINED 45 MPG H-D Milvaukee Eight** Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Adjustable Push Rod Kit • Tart # 92000245 SE Pro Street Tuner Part # 29400245 State EPA Compliant (Speed Limited ~115 mph) • Volter Market Bight** Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) • Voltarial Markated Elght** Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) • Voltarial Markated Cluck with Asiat and Sig 9 Plate Wet Cluch • Bard Adjusted Bending Valve Technolo	GROUND CLEARANCE, MINIMUM						
FUEL CAPACITY 6.0 Gallons/22.71 Liters GENERAL MEASUREMENTS WHEELBASE LENGTH BIGHT HEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUOING PASSENGERS) GAI inches 96.5 inches 96.5 inches 96.5 inches 96.5 inches 96.5 WR – 1,360 Ibs. / Payload – 515 Ibs. CITY HIGHWAY COMBINED PA MILEAGE EST. (MPG) CITY HIGHWAY COMBINED MAUFACTURER HIGHLIGHTS MAUFACTURER HIGHLIGHTS HD Milwaukee Eight ^M Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Gaskets CITY HIGHWAY • O CID Milwaukee Eight ^M Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Gaskets • Information Part # 2400026 EPP O Struct Tunne Part # 4000008C H-D Milwaukee Eight ^M Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) · When installed by an autorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warrany'. • 107 CID Milwaukee 8 rd Engine: pushrod-operated, overhead valves with hydraclic, sid-adjusting litters, four valves per cylinder and featuring EITMS (Engine Ide Temperature Maragement System). Compression ratio: Tulci. Lectrons Deserved IDen Part (Legne Ide) System (ESPFI): Single Cam desgin, rat and Oi cooled. • Part-Astatiad Oi Caler • Part-Astatiad Oi Caler • Hord Adjustable Rence Induion Shocks • Dual Halogen Headlight	BRAKE SYSTEM	Hydraulic Disc/Reflex [™] Electronically Linked with ABS (Dual Front Floating					
GENERAL MEASUREMENTS WHEELBASE LENGTH 64 inches 96.5 inches 94.5 lbs. TEST WEIGHT 94.5 lbs. HEICHT 94.5 lbs. MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) GVWR – 1,360 lbs. / Payload – 515 lbs. CITY Not Provided by Maufacturer Not Provided by Maufacturer AS MPG CITY Not Provided by Maufacturer Not Provided by Maufacturer AS MPG H-D Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Agitable Push Rod Kit • Gasketis H-D Milwaukee Eight™ Stage 2 Deventioad-50 State EPA Compliant (Speed Limited -115 mph) H-D Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) H-D Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) H-D Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) H-D Milwaukee Eight™ Stage 1 Download -10.1. Electronic Sequential Port Fuel Injection System (ESPFI)c Single Cam design, Air and Oil coded. • Fan-Assisted Oil Coler • Fan-Assisted Oil Coler • Hydraulady Actuated Cluch with Assist and Slip 9 Plate Wei Cluch • Stowale Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension • Dual Hadgen Heartight • Broken Heartight • Stowale Readout with Speed Capture • Over tradiady • Dual Hadgen Heartight							
WHEELBASE LENGTH 64 inches TEST WEIGHT HEIGHT 96.5 inches MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 63. inches GVWR – 1,360 lbs. / Payload – 515 lbs. CITY S6.3 inches MAXIMUM PAYLOAD CAPACITY Not Provided by Manufacturer VICE VMR – 1,360 lbs. / Payload – 515 lbs. CITY Not Provided by Manufacturer VICE Adjustable Passengers MAXUFACTURER HIGHLIGHTS Not Provided by Manufacturer COMBINED 45 MPG HD Milwaukee Eight TM Stage 2 Performance Engine Upgrade Kit Part # 92500058 • • Power Cam • • Adjustable Push Rod Kit • • Gaskets • HD Milwaukee Eight TM Stage 2 Deveload50 State EPA Compliant (Speed Limited -115 mph) "When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vahicle's limited waranty' • 107 CIO Milwaukee Strip Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per oplinder and featuring ETMS (Engine Ide the value Strip Control • 107 CIO Milwaukee Cluber (with Assist and Sil 9 Pine VW Cluch • Showed Dual Bending Valva Technology F	FUEL CAPACITY	6.0 Gallons/22.71 Liters					
LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 96.5 inches 845 lbs. 56.3 inches GWR - 1,360 lbs. / Payload - 515 lbs. CITY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer A 5 MPG CITY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer A 5 MPG H-D Milwaukee Eight ^{IM} Stage 2 Performance Engine Upgrade Kit Part # 9250058 • Fower Cam • Adjustable Push Rod Kit • Gaskets H-D High Flow Air Cleaner Part # 24400245 SE Pro Street Tuner Part # 41000080C H-D Milwaukee Eight ^{IM} Stage 2 Download-59 State EPA Compliant (Speed Limited -115 mph) · When installed by an authorized H-D baler at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty' • 107 CID Milwaukee S ^{IM} Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System); Compression ratio: 10.0.1, Electronic Sequential Port Fuel Injection System (ESPFI): Single Cam design, Air and Oil coded. • Fan-Assisted Oil Coder • 107 CID Milwaukee S ^{IM} Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System); Compression ratio: 10.0.1, Electronic Sequential Port Fuel Injection System (ESPFI): Single Cam design, Air and Oil coded. • Fan-Assisted Oil Coder • 107 CID Milwaukee S ^{IM} Engine: pushrod-operated, overhead valves with hydraulic self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System); Compression ratio: 10.0.1, Electronic Sequential Port Fuel Injection System (ESPFI): Single Cam design, Air and Oil coded. • Fant Adjustable Rear Emulsi		GENERAL MEASUREMENTS					
TEST WEIGHT HEICHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 845 lbs. 56.3 inches G/WR = 1,360 lbs. / Payload = 515 lbs. CITY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer 45 MPG HIGHWAY COMBINED Not Provided by Manufacturer 45 MPG HO MIVEACTURER HIGHLIGHTS Not Provided by Manufacturer 45 MPG HO Milwaukee Eight TM Stage 2 Performance Engine Upgrade Kit Part # 92500058 Power Cam A dijustable Public Not Cleaner Part # 20400245 For Street Tuner Part # 41000008C H-D Milwaukee Eight TM Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact Ube vehicle's limited warrany* • 107 CID Milwaukee B TM Engine: pubrod-operated. overhal valves with hydraulic, self-delivering these source and easign. Air and Oil coded. • Farn-Assitted Oil Coder Farn-Assitted Oil Coder • Hydraulcally Actuated Clutch with Assist and Slip 9 Plate Wet Clutch • ShoweB Dual Bending Valve Technology Front Suppension ratio: 10.0.1, Electronic Sequential Port Fuel Injection System (ESPFI)- Single Cam design. Air and Oil coded. • Hydraulcally Actuated Clutch with Assist and Slip 9 Plate Wet Clutch • ShoweB Dual Bending Valve Technology Front Suppension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel • Hand Adjustable Rear Emulsion Shocks Dual Halogen Headlight • Bard	WHEELBASE	64 inches					
HEIGHT MAXIMUM PAYLOAD CAPACITY (IXCLUDING PASSENGERS) 56.3 inches GWR – 1,360 lbs. / Payload – 515 lbs. GTTY Not Provided by Manufacturer Not Provided by Manufacturer Some CITY Not Provided by Manufacturer Not Provided by Manufacturer Some Highway Store CombineD MANUFACTURER HIGHLIGHTS How Cam MANUFACTURER HIGHLIGHTS H-D Milwaukee Eight TM Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam - Adjustable Push Rod Kit • Gaskets - Base 2 Download-50 State EPA Compliant (Speed Limited -115 mph) H-D High Flow Ar Clearer Part # 29400245 SE Pro Street Tuner Part # 41000003C H-D Milwaukee Eight TM Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) "When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle simited warranty" • 107 CID Milwaukee St TM Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Ide Temperature Management Manue System). Compression ratio: 10:0:1, Electronic Sequential Port Fuel Injection System (ESPFI) • 107 CID Milwaukee St TM Engines pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Ide Temperature Management Manue Que Technology Front Suppression with 17mm of Travel, Larger pistons improve dampening performance over the range of suspension the vitraua	LENGTH	96.5 inches					
MAXIMUM PAYLOAD CAPACITY (IXCLUDING PASSENCERS) GWR = 1,360 lbs. / Payload = 515 lbs. GUTY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer 45 MPG HOMUFACTURER HIGHLIGHTS HD Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Gaskets HD Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Gaskets HD Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) • When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warrany* • 107 CID Milwaukee B™ Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Ide Temperature Management System): (D.O): Electronic Sequential Port Fuel Injection System (ESPFI) • 107 CID Milwaukee Cinth Assist and Slip 9 Plate Wet Clutch • Fan-Assisted Oil Cooler • Hand Adjustable Rear Emulsion Shocks • Dual Hadogen Headlight • Stath Lighting Capable (rider controlled-disables all lights except brake and instrumentation) • Cruig Tabyeet Addit • Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED • Dual Hadogen Headlight • Stath Lighting Capable (rider controlled-disables all lights except brake and instrumentation)	TEST WEIGHT						
(INCLUDING PASSENGERS) GVWR = 1,360 IDS. / P@yI0ad = 515 IDS. EPA MILEAGE EST. (MPG) CITY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer 45 MPG HOMIWaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 MANUFACTURER HIGHLIGHTS H-D Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 Power Cam · Adjustable Push Rod Kit Gaskets H-D Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph) 'When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty' · 107 CID Milwaukee 8 TM Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring ETMS (Engine Idle Temperature Management System), Compression ratio: 10.0.1, Electronic Sequential Por Fuel Injection System (ESPFI)< Single Cam design, Air and Oli cooled.	-	56.3 inches					
EPA MILEAGE EST. (MPG) CITY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer 45 MPG How Provided by Manufacturer 45 MPG How Provided by Manufacturer 45 MPG How Response MANUFACTURER HIGHLIGHTS How Response Power Cam • Adjustable Push Rod Kit • Gaskets Ho High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C How Initialled by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty* • 107 CID Milwaukee 8 TM Engine: pushrod-operated, overheed valves with hydraulic, self-adjusting liters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.0.1, Electronic Sequential Por Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled.		GVWR – 1.360 lbs. / Pavload – 515 lbs.					
CITY HIGHWAY COMBINED Not Provided by Manufacturer Not Provided by Manufacturer A5 MPG MANUFACTURER HIGHLIGHTS Ho Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Gaskets Ho High Flow Air Cleaner Part # 294000245 Ho High Flow Air Cleaner Part # 200008C # Power Cam ***********************************	(INCLUDING PASSENGERS)						
Highway COMBINED Not Provided by Manufacturer 45 MPG Highway Manufacturer 45 MPG Hold Provided by Manufacturer 45 MPG Manufacturer 45 MPG Hold Provided Street Adjustable Push Rod Kit 6 Garkets Ho High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 1000008C Ho High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 41000008C Ho Hikke Eight ^{IM} Stage 2 Devrinolad-50 State EPA Compliant (Speed Limited -115 mph) When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty* • 107 CID Milwaukee 8 TM Engine: pushrod-operated, overhead vales with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.0.1, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled. • Far-Assisted OIL Cooler • Far-Assisted OIL cooler • Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch • Howard Dual Bending Valve Technology Front Suppension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel • Dual Halogen Headingti • Stare Indition Shocks • Dual Halogen Readout with Speed Capture • Gara Indicator • One Touch Saddebeg Laterbes • Draving Footoboards • Refl							
COMBINED 45 MPG MANUFACTURER HIGHLIGHTS MANUFACTURER HIGHLIGHTS H-D Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 • Power Cam • Adjustable Push Rod Kit • Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 1000008C H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 41000008C H-D High Flow Air Cleaner Part # 29400245 Were installed by an authorized H-D Dealer at the time of new vehicle delivery, these Kits do not impact the vehicle's limited warrany* • 107 CID Milwaukee 8 TM Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Tean-Assisted Oil Cooler • Hydraulcally Actuated Clutch with Assist and Slp 9 Plate Wet Clutch Ban							
H-D Milwaukee Eight™ Stage 2 Performance Engine Upgrade Kit Part # 92500058 Power Cam Adjustable Push Rod Kit Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 41000008C H-D Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) "When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty" 107 CID Milwaukee 8™ Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.01, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled. Fan-Assisted Oil Cooler Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch Showa® Dual Bending Valve Technology From Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel Uail Halogen Headlight Steath Lighting Capable (rider controlled-disables all lights except brake and instrumentation) Cruise Control Emergency Equipment Power for 30 minutes with lightion OFF or LOCKED Digital Speed Readout with Speed Capture Reflex™ electronically linked brake system with ABS (delinked below approximately 25 mph) Duoip Multi-Tread Bead Reletation Times Long Stem True Vision Mirrors	-						
 H-D Milwaukee Eight[™] Stage 2 Performance Engine Upgrade Kit Part # 92500058 Power Cam Adjustable Push Rod Kit Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D Milwaukee Eight[™] Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) [™]When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty* 107 CID Milwaukee 8[™] Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.01, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled. Fan-Assisted Oil Cooler Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch Showa® Dual Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel Hand Adjustable Rear Emulsion Shocks Dual Halogen Headlight Stealth Lighting Capable (rider controlled-disables all lights except brake and instrumentation) Cruise Control Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED Digital Speed Readout with Speed Capture Gear Indicator Polycathonate Windshield designed to breakaway with minimal impact force One-Touch Saddlebag Lid Latches Pivoting Footboards Reflex[™] electronically linked brake system with ABS (delinked below approximately 25 mph) Dunop Multi-Tread Bead Retention Tires Long Stem True Vision Mirrors	COMBINED	45 MPG					
 Power Cam Adjustable Push Rod Kit Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D Milwaukee Eight[™] Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph)		MANUFACTURER HIGHLIGHTS					
 Power Cam Adjustable Push Rod Kit Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D Milwaukee Eight[™] Stage 2 Download-50 State EPA Compliant (Speed Limited -115 mph)							
 Adjustable Push Rod Kit Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 41000008C H-D Milwaukee Eight™ Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph)		ne Upgrade Kit Part # 92500058					
 Gaskets H-D High Flow Air Cleaner Part # 29400245 SE Pro Street Tuner Part # 4100008C H-D Milwaukee Eight[™] Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) [™]When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty* 107 CID Milwaukee 8[™] Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled. Fan-Assisted Oil Cooler Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch Showa@ Dual Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel Hand Adjustable Rear Emulsion Shocks Dual Halogen Headlight Steath Lighting Capable (rider controlled-disables all lights except brake and instrumentation) Cruise Control Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED Digital Speed Readout with Speed Capture Gear Indicator Polycarbonate Windshield designed to breakaway with minimal impact force One-Touch Saddlebag Lid Latches Pivoting Footboards Reflex[™] electronically linked brake system with ABS (delinked below approximately 25 mph) Dunlop Multi-Tread Bead Retention Tires Long Stem True Vision Mirrors 							
 SE Pro Street Tuner Part # 4100008C H-D Milwaukee Eight[™] Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) [*]When installed by an authorized H-D bealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty[*] 107 CID Milwaukee 8[™] Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratic: 10.01, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled. Fan-Assisted Oil Cooler Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch Showa® Dual Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel Hand Adjustable Rear Emulsion Shocks Dual Halogen Headlight Steatth Lighting Capable (rider controlled-disables all lights except brake and instrumentation) Cruise Control Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED Digital Speed Readout with Speed Capture Gear Indicator Polycarbonate Windshield designed to breakaway with minimal impact force One-Touch Saddlebag Lid Latches Pivoting Footboards Reflex[™] electronically linked brake system with ABS (delinked below approximately 25 mph) Dunlop Multi-Tread Bead Retention Tires Long Stem True Vision Mirrors 	-						
H-D Milwaukee Eight [™] Stage 2 Download-50 State EPA Compliant (Speed Limited ~115 mph) "When installed by an authorized H-D Dealer at the time of new vehicle delivery, these kits do not impact the vehicle's limited warranty* 107 CID Milwaukee 8 [™] Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI)< Single Cam design, Air and Oil cooled. Fan-Assisted Oil Cooler Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch Showa® Dual Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel Hand Adjustable Rear Emulsion Shocks Dual Halogen Headlight Stealth Lighting Capable (rider controlled-disables all lights except brake and instrumentation) Cruise Control Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED Digital Speed Readout with Speed Capture Gear Indicator Polycarbonate Windshield designed to breakaway with minimal impact force One-Touch Saddlebag Lid Latches Pivoting Footboards Reflex [™] electronically linked brake system with ABS (delinked below approximately 25 mph) Dunlop Multi-Tread Bead Retention Tires Long Stem True Vision Mirrors							
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Long Stem True Vision Mirrors							
2 Year Unlimited Mileage OE Warranty	Duniop Multi-fread Dead Retention fries						
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Harley-Davidson FLHTP Stage I



MAKE & MODEL	Harley-Davidson FLHTP (Electra Glide) Stage I			
SALES CODE	Not Provided by Manufacturer			
POWERTRAIN INFORMATION				
CUBIC INCHES	107 CID			
LITERS	1746 CC			
	Not Provided by Manufacturer			
ALTERNATOR	48 Amp (producing approximately 28 amps at idle)			
TORQUE	111.4 @ 3250 RPM			
BATTERY	12VDC, 28 Amp/Hour, 270 CCA			
	6 Speed Manual / Assist and Slip Wet 9 Plate Clutch			
SUSPENSION TYPE (FRONT)	Hydraulic 49 mm Telescopic Forks with Showa® Dual Bending Valve			
	Technology improving dampening performance			
SUSPENSION TYPE (REAR)	Swing Arm with Hand Adjustable Emulsion Rear Shocks			
TURNING CIRCLE (CURB TO CURB)	<17'			
TIRE SIZE, LOAD & SPEED RATING	Dunlop D408F 130/80B17 (65H) (Front)			
	Dunlop D407T 180/65B16 (81H) (Rear)			
GROUND CLEARANCE, MINIMUM	5.1 inches			
BRAKE SYSTEM	Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating			
	Rotors – Single Fixed Rear)			
FUEL CAPACITY	6.0 Gallons/22.71 Liters			
	GENERAL MEASUREMENTS			
WHEELBASE	64 inches			
LENGTH	96.5 inches			
TEST WEIGHT	845 lbs.			
HEIGHT	56.3 inches			
MAXIMUM PAYLOAD CAPACITY	GVWR – 1,360 lbs. / Payload – 515 lbs.			
(INCLUDING PASSENGERS)				
EPA MILEAGE EST. (MPG)				
CITY	Not Provided By Manufacturer			
HIGHWAY	Not Provided By Manufacturer			
COMBINED	45 MPG			

MANUFACTURER HIGHLIGHTS

- 107 CID Milwaukee 8[™] Engine: pushrod-operated, overhead valves with hydraulic, self-adjusting lifters, four valves per cylinder and featuring EITMS (Engine Idle Temperature Management System), Compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI), Single Cam design
- Fan-Assisted Oil Cooler
- Hydraulically Actuated Clutch with Assist and Slip 9 Plate Wet Clutch
- Showa® Dual Bending Valve Technology Front Suspension with 117mm of Travel, Larger pistons improve dampening performance over the range of suspension travel.
- Hand Adjustable Read Emulsion Shocks
- Daymaker[™] LED Headlight
- Stealth Lighting Capable (rider controlled-disables all lights except brake and instrumentation)
- Cruise Control
- Emergency Equipment Power for 30 minutes with Ignition OFF or LOCKED
- Digital Speed Readout with Speed Capture
- Gear Indicator
- Polycarbonate Windshield designed to breakaway with minimal impact force
- One-Touch Saddlebag Lid Latches
- Pivoting Footboards
- Reflex[™] electronically linked brake system with ABS (delinked below approximately 25 mph)
- Dunlop Multi-Tread Bead Retention Tires
- Long Stem True Vision Mirrors
- 2 Year Unlimited Mileage OE Warranty

Harley-Davidson FLHTP Stage IV



MAKE & MODEL	Harley-Davidson FLHTP (Electra Glide) Stage 4			
SALES CODE	Not Provided by Manufacturer POWERTRAIN INFORMATION			
	114 CID			
LITERS HORSEPOWER SAENET	1868 CC			
ALTERNATOR	Not Provided by Manufacturer 48 AMP (producing approximately 28 Amps at idle)			
TORQUE	124+ @ 3250 RPM			
BATTERY	12VDC, 28 Amp/Hour, 270 CCA			
TRANSMISSION	6 Speed Manual / Wet 9 Plate Assist and Slip Clutch			
SUSPENSION TYPE (FRONT)	Hydraulic 49 mm Telescopic Forks with Showa® Dual Bending Valve			
	Technology improving dampening performance			
SUSPENSION TYPE (REAR)	Swing Arm with Hand Adjustable Emulsion Rear Shocks			
TURNING CIRCLE (CURB TO CURB)	<17'			
TIRE SIZE, LOAD & SPEED RATING	Dunlop D408F 130/80B17 (65H) (Front)			
	Dunlop D4087 180/65B16 (81H) (Rear)			
GROUND CLEARANCE, MINIMUM	5.1 inches			
BRAKE SYSTEM	Hydraulic Disc/Reflex™ Electronically Linked with ABS (Dual Front Floating			
	Rotors – Single Fixed Rear)			
FUEL CAPACITY	6.0 Gallons/22.71 Liters			
	GENERAL MEASUREMENTS			
WHEELBASE	64 inches			
LENGTH	96.5 inches			
TEST WEIGHT	845 lbs.			
HEIGHT	56.3 inches			
MAXIMUM PAYLOAD CAPACITY	GVWR – 1,360 lbs. / Payload – 515 lbs.			
(INCLUDING PASSENGERS)				
	EPA MILEAGE EST. (MPG)			
CITY	Not Provided by Manufacturer			
HIGHWAY	Not Provided by Manufacturer			
COMBINED	Not Provided by Manufacturer			
COMBINED				
 H-D Milwaukee 8[™] Stage 3 Performance ✓ Increases displacement from the OE 	Not Provided by Manufacturer MANUFACTURER HIGHLIGHTS Engine Upgrade Kit (Part # 9250056)			
 H-D Milwaukee 8[™] Stage 3 Performance ✓ Increases displacement from the OE ✓ SE Bolt on 4.075" Cylinders 	Not Provided by Manufacturer MANUFACTURER HIGHLIGHTS Engine Upgrade Kit (Part # 9250056) 107 CID to 114 CID			
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 H-D Milwaukee 8[™] Stage 3 Performance I Increases displacement from the OE SE Bolt on 4.075" Cylinders 11:1 High Compression Aluminum Co High Performance Piston Rings SE-498 Cam SE Performance Valve Springs SE High Performance Tappets Engine Gaskets H-D High Flow Air Cleaner (Part # 294002) SE Pro Street Tuner (Part # 4100008B) H-D Milwaukee Eight[™] Stage 3 Download **When installed by an authorized H-D Dealer at the The OE Engine is the new 107 CID Milwaukee Eight featuring Engine Idle Temperature Management Sy Single Cam design, Air and Oil cooled. Fan Assisted Oil Cooler Hydraulically Actuated Assist and Slip 9 Plate W Showa® Dual Bending Valve Technology Front larger pistons improve dampening performance Hand Adjustable Rear Emulsion Shocks Daymaker[™] LED Headlight 	Not Provided by Manufacturer MANUFACTURER HIGHLIGHTS Engine Upgrade Kit (Part # 9250056) 107 CID to 114 CID bated Pistons 45) -50 State EPA Compliant (Speed Limited-110 mph) time of new vehicle delivery, these kits do not impact the vehicles limited warranty** I TM : pushrod-operated overhead valves with hydraulic self-adjusting lifters, four valves per cylinder and istem (EITMS), compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI), //et Clutch Suspension with 117mm of travel, over the range of suspension travel • Digital Speed Readout with Speed Capture • Caer Indicator • Digital Speed Readout with Speed Capture • One-Touch Saddlebag Lid Latches • Pivoting Footboards es all lights except brake and			
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 H-D Milwaukee 8[™] Stage 3 Performance I Increases displacement from the OE SE Bolt on 4.075" Cylinders 11:1 High Compression Aluminum Co High Performance Piston Rings SE-498 Cam SE Performance Valve Springs SE High Performance Tappets SE Performance Valve Springs SE High Performance Tappets Engine Gaskets H-D High Flow Air Cleaner (Part # 294002) SE Pro Street Tuner (Part # 4100008B) H-D Milwaukee Eight[™] Stage 3 Download **When installed by an authorized H-D Dealer at the The OE Engine is the new 107 CID Milwaukee Eight featuring Engine Idle Temperature Management Sy Single Cam design, Air and Oil cooled. Fan Assisted Oil Cooler Hydraulically Actuated Assist and Slip 9 Plate W Showa® Dual Bending Valve Technology Front larger pistons improve dampening performance Hand Adjustable Rear Emulsion Shocks Daymaker[™] LED Headlight Stealth Lighting Capable (rider controlled-disabli instrumentation) 	Not Provided by Manufacturer MANUFACTURER HIGHLIGHTS Engine Upgrade Kit (Part # 9250056) 107 CID to 114 CID pated Pistons 45) -50 State EPA Compliant (Speed Limited-110 mph) <i>time of new vehicle delivery, these kits do not impact the vehicles limited warranty**</i> 1 TM : pushrod-operated overhead valves with hydraulic self-adjusting lifters, four valves per cylinder and stem (EITMS), compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI), //et Clutch Suspension with 117mm of travel, over the range of suspension travel • Digital Speed Readout with Speed Capture • One-Touch Saddlebag Lid Latches • Pivoting Footboards • Reflex™ electronically linked brake system with ABS (delinked below approximately 25 mph) • Dunlop Multi-Treat Bead Retention Tires • Long Stem True Vision Mirrors			
 H-D Milwaukee 8[™] Stage 3 Performance I Increases displacement from the OE SE Bolt on 4.075" Cylinders 11:1 High Compression Aluminum Co High Performance Piston Rings SE-498 Cam SE Performance Valve Springs SE High Performance Tappets Engine Gaskets H-D High Flow Air Cleaner (Part # 294002) SE Pro Street Tuner (Part # 4100008B) H-D Milwaukee Eight[™] Stage 3 Download **When installed by an authorized H-D Dealer at the The OE Engine is the new 107 CID Milwaukee Eight featuring Engine Idle Temperature Management Sy Single Cam design, Air and Oil cooled. Fan Assisted Oil Cooler Hydraulically Actuated Assist and Slip 9 Plate W Showa® Dual Bending Valve Technology Front larger pistons improve dampening performance Hand Adjustable Rear Emulsion Shocks Daymaker[™] LED Headlight Stealth Lighting Capable (rider controlled-disabli instrumentation) Cruise Control 	Not Provided by Manufacturer MANUFACTURER HIGHLIGHTS Engine Upgrade Kit (Part # 9250056) 107 CID to 114 CID bated Pistons 45) -50 State EPA Compliant (Speed Limited-110 mph) time of new vehicle delivery, these kits do not impact the vehicles limited warranty** * TM : pushrod-operated overhead valves with hydraulic self-adjusting lifters, four valves per cylinder and stem (EITMS), compression ratio: 10.0:1, Electronic Sequential Port Fuel Injection System (ESPFI), /vet Clutch Suspension with 117mm of travel, over the range of suspension travel • Digital Speed Readout with Speed Capture • Gear Indicator • Polycarbonate Windshield designed to breakaway with minimal impact force • One-Touch Saddlebag Lid Latches • Pivoting Footboards • ReflexT ^M electronically linked brake system with ABS (delinked below approximately 25 mph) • Dunlop Multi-Treat Bead Retention Tires			

Yamaha FJR1300



MAKE & MODEL	Yamaha FJR 1300P-AB				
SALES CODE	RP31Y				
	POWERTRAIN INFORMATION				
CUBIC INCHES	79.2 CID				
LITERS	1.298 CC				
HORSEPOWER SAENET	144.2 bph @ 8,000 RPM				
ALTERNATOR	590 AMP				
TORQUE	138Nm @ 7,000 RPM				
BATTERY	12V, 12 Amp/Hour				
TRANSMISSION	6 Speed Manual / Wet, Multiple Disc Clutch				
SUSPENSION TYPE (FRONT)	48mm fork fully adjustable				
SUSPENSION TYPE (REAR)	Single Shock – adjustable spring preload and rebound damping				
TURNING CIRCLE (CURB TO CURB)	122.0 inches				
TIRE SIZE, LOAD & SPEED RATING	Front: Dual 12.6 inches discs; Unified Brake System and ABS				
Rear: 11.1 inches disc; Unified Brake System and ABS					
GROUND CLEARANCE, MINIMUM	5.1 inches				
BRAKE SYSTEM	Front: Dual 12.6 inches discs; Unified Brake System and ABS				
	Rear: 11.1 inches disc; Unified Brake System and ABS				
FUEL CAPACITY	6.6 Gallons/25 Liters				
	GENERAL MEASUREMENTS				
WHEELBASE	60.8 inches				
LENGTH	87.8 inches				
TEST WEIGHT	865 lbs.				
HEIGHT	Low-55.7 inches High – 61 inches				
MAXIMUM PAYLOAD CAPACITY					
(INCLUDING PASSENGERS)	1,111 lbs.				
EPA MILEAGE EST. (MPG)					
CITY Not Provided by Manufacturer					
HIGHWAY	Not Provided by Manufacturer				
COMBINED	36				
MANUFACTURER HIGHLIGHTS					

The FJR1300 has made its mark as a truly iconic model for Yamaha Motor Company since its introduction to the U.S. market in 2003, with tens of thousands of this incredibly reliable "supersport touring" model having been sold since that time.

Known for its sportbike-like engine performance, impeccable handling, and superb braking capabilities, the FJR1300 has proven itself to be extremely reliable, with many retail customers racking up well over 100,000 miles on their personal bikes.

The FJR1300 has also undergone 4 significant generational updates and multiple refinements since its introduction, the last of which coming in the 2016 model year, with the addition of a six-speed transmission and advanced electronic additions. These upgrades have only added to the reliability, versatility, comfort, and sophistication of this motorcycle, without inhibiting the impressive performance or rider adjustability of this uniquely capable sport-touring motorcycle.

Zero DSRP



SALES CODE Not Provided by Manufacturer POWERTRAIN INFORMATION CUBIC INCHES N/A LITERS N/A HORSEPOWER SAENET 67 HP (50kW) @ 4,000 RPM ALTERNATOR N/A TORQUE 106 ft/b (144 Nm) BATTERY ZForce Li-lon 15.9 kWh TRANSMISSION Clutchless Direct Drive SUSPENSION TYPE (FRONT) Showa@ 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping SUSPENSION TYPE (REAR) Showa@ 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping TURNING CIRCLE (CURB TO CURB) Not Provided by Manufacturer Pireliu MT-60 103/00-19 (Front) Pirelii MT-60 103/00-19 (Front) Pirelii MT-60 103/00-19 (Rear) 9.25 inches GROUND CLEARANCE, MINIMUM 9.25 inches BAKE SYSTEM J-Juan Disc, Bosch Gen 9 ABS FUEL CAPACITY N/A WHEELBASE 56.2 inches LENGTH 82.5 inches Storked Babs. 50.5 inches MAXIMUM PAYLOAD CAPACITY 288 lbs. (INCLUDING PASSENGERS) EPA MILEAGE EST. CITY 435 (equiv.) </th <th>MAKE & MODEL</th> <th>Zero DSRP</th>	MAKE & MODEL	Zero DSRP				
POWERTRAIN INFORMATION CUBIC INCHES LITERS N/A HORSEPOWER SAENET 67 HP (50kW) @ 4,000 RPM ALTERNATOR TORQUE 06 ft/b (144 Nm) BATTERY ZForce Li-lon 15.9 kWh Clutchless Direct Drive Showa@ 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping SUSPENSION TYPE (FRONT) Showa@ 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping TURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATING Nict Provided by Manufacturer BRAKE SYSTEM FUEL CAPACITY 9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/A WHEELBASE LENGTH 56.2 inches UNHELBASE LENGTH 56.2 inches UNA S0.5 inches 28 lbs. 288 lbs. EPA MILEAGE EST. EPA MILEAGE EST.						
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LITERSN/AHORSEPOWER SAENET67 HP (50kW) @ 4,000 RPMALTERNATORN/ATORQUE106 ft/b (144 Nm)BATTERYZForce Li-Ion 15.9 kWhTRANSMISSIONClutchless Direct DriveSUSPENSION TYPE (FRONT)Showa@ 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound dampingSUSPENSION TYPE (REAR)Showa@ 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound dampingTURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATINGNot Provided by Manufacturer Pirelli MT-60 100/90-19 (Front)GROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY9.25 inches J-Juan Disc, Bosch Gen 9 ABSWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches 435 (equiv.)LENGTH TEST WEIGHT HAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)50.5 inches 288 lbs.CITY435 (equiv.)		POWERTRAIN INFORMATION				
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BATTERY TRANSMISSIONZForce Li-lon 15.9 kWh Clutchless Direct DriveSUSPENSION TYPE (FRONT)Showa@ 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound dampingSUSPENSION TYPE (REAR)Showa@ 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound dampingTURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATINGNot Provided by Manufacturer Pirelli MT-60 100/90-19 (Front) Pirelli MT-60 130/80-17 (Rear)GROUND CLEARANCE, MINIMUM BAKE SYSTEM FUEL CAPACITY9.25 inches J.Juan Disc, Bosch Gen 9 ABS N/AWHEELBASE LENGTH TEST WEIGHT HEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches 50.5 inches 288 lbs.TUTY435 (equiv.)	ALTERNATOR	N/A				
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SUSPENSION TYPE (REAR)compression and rebound damping Showa® 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound dampingTURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATINGNot Provided by Manufacturer Pirelli MT-60 100/90-19 (Front) Pirelli MT-60 130/80-17 (Rear) 9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AGROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches S0.5 inches 288 lbs.CITY435 (equiv.)		Clutchless Direct Drive				
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TURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATINGpreload, compression and rebound damping Not Provided by Manufacturer Pirelli MT-60 100/90-19 (Front) Pirelli MT-60 130/80-17 (Rear) 9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AGROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches S0.5 inches 288 lbs.CITYEPA MILEAGE EST.CITY435 (equiv.)						
TURNING CIRCLE (CURB TO CURB) TIRE SIZE, LOAD & SPEED RATINGNot Provided by Manufacturer Pirelli MT-60 100/90-19 (Front) Pirelli MT-60 130/80-17 (Rear)GROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches S0.5 inches S0.5 inchesCITYEPA MILEAGE EST.CITY435 (equiv.)	SUSPENSION TYPE (REAR)					
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GROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITYPirelli MT-60 130/80-17 (Rear)9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AJ-Juan Disc, Bosch Gen 9 ABSGENERAL MEASUREMENTSWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches 82.5 inches 50.5 inches 288 lbs.CITY435 (equiv.)						
GROUND CLEARANCE, MINIMUM BRAKE SYSTEM FUEL CAPACITY9.25 inches J-Juan Disc, Bosch Gen 9 ABS N/AGENERAL MEASUREMENTSWHEELBASE LENGTH TEST WEIGHT HEIGHT MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS)56.2 inches 30.5 inches 30.5 inchesEPA MILEAGE EST.CITY435 (equiv.)	TIRE SIZE, LOAD & SPEED RATING					
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HEIGHT 50.5 inches MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 288 lbs. EPA MILEAGE EST. CITY 435 (equiv.)	LENGTH	82.5 inches				
MAXIMUM PAYLOAD CAPACITY (INCLUDING PASSENGERS) 288 lbs. EPA MILEAGE EST. CITY 435 (equiv.)	TEST WEIGHT	487 lbs.				
(INCLUDING PASSENGERS) 288 lbs. EPA MILEAGE EST. CITY 435 (equiv.)	HEIGHT	50.5 inches				
(INCLUDING PASSENGERS) EPA MILEAGE EST. CITY 435 (equiv.)	MAXIMUM PAYLOAD CAPACITY	288 lbs				
CITY 435 (equiv.)	(INCLUDING PASSENGERS)	200 103.				
	EPA MILEAGE EST.					
HIGHWAY 210 (equiv.)	CITY	435 (equiv.)				
	HIGHWAY	210 (equiv.)				
COMBINED Not Provided by Manufacturer	COMBINED	Not Provided by Manufacturer				

MANUFACTURER HIGHLIGHTS

The new 100% electric Zero DSRP police motorcycle incorporates Zero's high-performance motor and 660 amp controller to deliver more torque and more power. The DSRP is a dual sport with the ability to patrol both on and off-road, and with no emissions, even indoors. With no gears, clutch or noise, officers can focus on patrolling and gain tactical advantages. Having a "fuel" cost of a penny per mile and maintenance-free powertrain, the Zero DSRP provides a low total cost of ownership with unique advantages over internal combustion driven machines:

- No shifting; instant torque from 0 rpm
- Lightweight and highly maneuverable
- Maintenance-free powertrain
- Life of motorcycle power pack
- Exhaust free; produces minimal heat
- Regenerative braking and coasting
- Blackout switch for stealth operations
- Charge from standard 110V outlet

MOTORCYCLE DYNAMICS TESTING

MOTORCYCLE DYNAMICS TESTING OBJECTIVE

To determine each motorcycle's high speed handling characteristics and performance in comparison to other motorcycles. The course used is a two mile road racing type configuration containing hills, curves, and corners. The course simulates actual conditions encountered in pursuit or emergency driving situations in the field, with the exception of other traffic. The evaluation is a true test of the motorcycle manufacturers in offering balanced packages of acceleration capabilities, suspension components, and braking characteristics.

MOTORCYCLE DYNAMICS TESTING METHODOLOGY

Each motorcycle is ridden over the course a total of 32 timed laps using four separate riders, each riding an eight lap series. The final score for the motorcycle is the combined average (from the four riders) of the five fastest laps for each rider during the eight lap series.

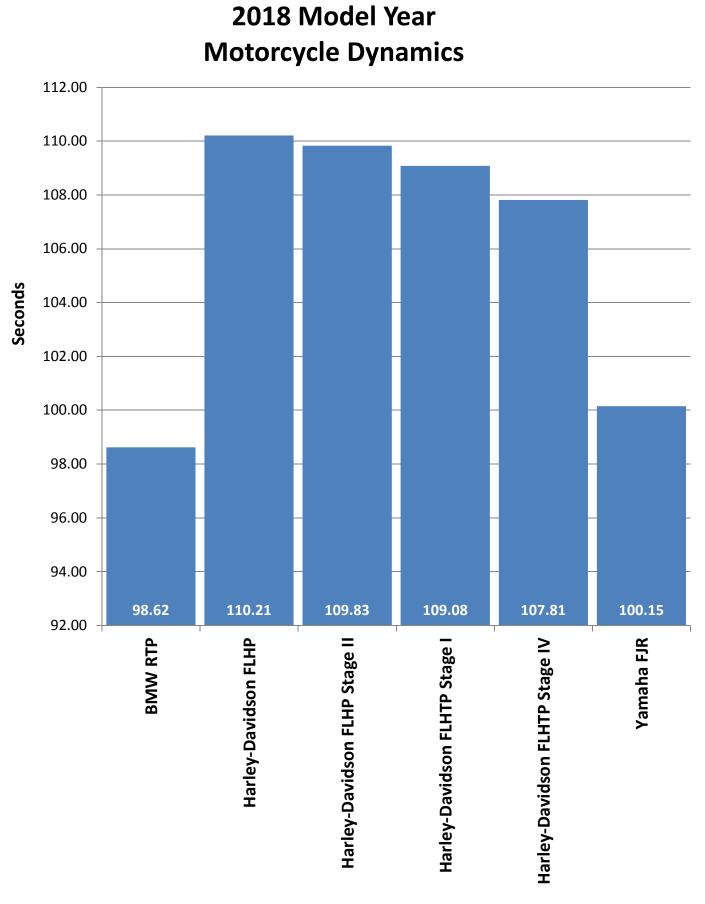
	GRATTAN RACEWAY 2018 MODEL YEAR MOTORCYCLE DYNAMICS SCHEDULE SEPTEMBER 14, 2017						
	DARLINGTON	ROGERS	TIBAUDO	CUPP			
9:30 a.m.	Harley-Davidson FLHP Stage II	Harley-Davidson FLHTP Stage IV					
10:00 a.m.			Harley-Davidson FLHP	Harley-Davidson FLHTP Stage I			
10:30 a.m.	BMW RTP	Yamaha FJR					
11:00 a.m.	Harley-Davidson FLHTP Stage IV	Harley-Davidson FLHP Stage II					
11:30 a.m.			Harley Davidson FLHTP Stage I	Harley-Davidson FLHP			
12:30 p.m.	Yamaha FJR	BMW RTP					
1:00 p.m.			Harley-Davidson FLHTP Stage IV	Harley-Davidson FLHP Stage II			
1:30 p.m.	Harley-Davidson FLHP	Harley-Davidson FLHTP Stage I					
2:00 p.m.			BMW RTP	Yamaha FJR			
2:30 p.m.			Harley-Davidson FLHP Stage II	Harley-Davidson FLHTP Stage IV			
3:00 p.m.	Harley-Davidson FLHTP Stage I	Harley-Davidson FLHP					
3:30 p.m.			Yamaha FJR	BMW RTP			

MOTORCYCLE DYNAMICS SCHEDULE

MOTORCYCLE DYNAMICS TESTING ON SEPTEMBER 14, 2017							
Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
	DARLINGTON	01:39.11	01:38.32	01:37.97	01:38.39	01:38.49	01:38.46
	ROGERS	01:39.63	01:38.75	01:38.02	01:37.20	01:36.90	01:38.10
BMW RTP	TIBAUDO	01:39.85	01:39.73	01:39.72	01:38.79	01:38.15	01:39.25
	CUPP	01:39.14	01:38.71	01:38.92	01:38.15	01:38.38	01:38.66
Overall Average		-		-			01:38.62
	TIBAUDO	01:51.36	01:52.05	01:51.39	01:51.06	01:52.04	01:51.58
Harley Devideon EL HD	CUPP	01:49.98	01:49.92	01:49.66	01:49.85	01:50.07	01:49.90
Harley-Davidson FLHP	DARLINGTON	01:49.95	01:49.75	01:49.74	01:49.28	01:49.25	01:49.59
	ROGERS	01:49.42	01:50.01	01:49.87	01:49.52	01:49.93	01:49.75
Overall Average							01:50.21
	DARLINGTON	01:50.14	01:49.98	01:50.19	01:49.72	01:49.64	01:49.39
Harley-Davidson FLHP	ROGERS	01:49.52	01:49.30	01:49.17	01:49.55	01:49.39	01:49.39
Stage II	CUPP	01:49.46	01:49.72	01:49.81	01:49.33	01:48.97	01:49.46
	TIBAUDO	01:50.41	01:50.55	01:51.07	01:50.54	01:50.18	01:50.55
Overall Average							01:49.83
	CUPP	01:48.77	01:49.80	01:48.79	01:48.41	01:48.50	01:48.85
Harley-Davidson FLHTP	TIBAUDO	01:50.25	01:49.89	01:49.67	01:50.11	01:49.64	01:49.91
Stage I	ROGERS	01:48.58	01:48.19	01:48.31	01:48.36	01:48.40	01:48.37
	DARLINGTON	01:49.04	01:49.22	01:49.44	01:49.26	01:49.01	01:49.19
Overall Average							01:49.08
	ROGERS	01:48.48	01:47.49	01:48.41	01:47.74	01:48.23	01:48.27
Harley-Davidson FLHTP	DARLINGTON	01:47.80	01:47.50	01:47.53	01:47.64	01:47.66	01:47.63
Stage IV	TIBAUDO	01:48.64	01:48.54	01:48.00	01:47.72	01:47.74	01:48.13
	CUPP	01:47.40	01:47.05	01:47.25	01:47.38	01:47.08	01:47.23
Overall Average						01:47.81	
	ROGERS	01:41.00	01:40.38	01:40.96	01:40.13	01:39.53	01:40.40
Yamaha FJR	DARLINGTON	01:40.23	01:39.96	01:39.60	01:39.76	01:38.76	01:39.66
	CUPP	01:41.97	01:40.84	01:40.10	01:41.51	01:40.61	01:41.01
TIBAUDO 01:40.12 01:39.95 01:39.46 01:39.39 01:38.83 01:39.55							
Overall Average							01:40.15

**The Zero DSRP was not tested for dynamics as its primary mission is not highway road patrol. Following Acceleration and Top Speed testing, remaining battery range was measured. See page 101 for results.





MOTORCYCLE ACCELERATION & TOP SPEED TESTING

ACCELERATION TEST OBJECTIVE

To determine the ability of each test motorcycle to accelerate from a standing start to 60 mph, 80 mph, and 100 mph.

ACCELERATION TEST METHODOLOGY

Using a Race Logic Vbox 3i GPS data collection unit, each motorcycle is driven through four acceleration sequences, two northbound and two southbound, to allow for wind direction. The four resulting times for each target speed are averaged and the average times are used to derive scores for acceleration. To ensure accuracy, the same rider performs the test for all motorcycles.

TOP SPEED TEST OBJECTIVE

To determine the actual top speed attainable by each test motorcycle within a distance of 14 miles from a standing start.

TOP SPEED TEST METHODOLOGY

Following the fourth acceleration run, each test motorcycle will continue to accelerate to the top speed attainable within 14 miles from the start of the run. The highest speed attained within the 14-mile distance will be recorded as the vehicle's top speed.



BMW R1200 RT-P

BEGINNING TIME:	<u>4:05 p.m.</u>	TEMPERATURE:	<u>78.6° F</u>
WIND VELOCITY:	<u>3.5 mph</u>	WIND DIRECTION:	<u>West</u>

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	4.48	4.13	4.62	4.21	4.36
0 - 80	6.87	6.41	6.98	6.48	6.69
0 – 100	10.83	9.84	10.71	9.97	10.34

DISTANCE TO REACH 100 MPH: .17 mile **DISTANCE TO REACH 120 MPH:** .38 mile

TOP SPEED ATTAINED: 135 mph

DISTANCE TO REACH TOP SPEED: 6,879.27 ft. TIME TO REACH TOP SPEED: 42.23 seconds

Harley-Davidson FLHP

BEGINNING TIME: WIND VELOCITY:

2:20 p.m. 8.1 mph

TEMPERATURE: WIND DIRECTION: 76.5° F Southwest

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	5.17	5.30	5.41	5.14	5.26
0 - 80	9.49	9.44	9.30	9.10	9.33
0 – 100	20.13	17.99	20.25	18.11	19.12

DISTANCE TO REACH 100 MPH: .35 mile **DISTANCE TO REACH 120 MPH:** N/A

TOP SPEED ATTAINED: 109 mph

DISTANCE TO REACH TOP SPEED: 3.212.81 ft. TIME TO REACH TOP SPEED: 26.72 seconds

Harley-Davidson FLHP Stage II

BEGINNING TIME: WIND VELOCITY:

<u>9:21 a.m.</u> 4.0 mph

TEMPERATURE: <u>58.8° F</u> WIND DIRECTION:

Calm

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	4.74	4.84	4.76	4.73	4.77
0 - 80	8.25	8.22	8.19	8.15	8.20
0 – 100	14.76	14.50	15.11	14.71	14.77

DISTANCE TO REACH 100 MPH: 0.30 mile **DISTANCE TO REACH 120 MPH:** N/A

TOP SPEED ATTAINED: 108 mph

DISTANCE TO REACH TOP SPEED: 2,579.10 ft. TIME TO REACH TOP SPEED: 22.19 seconds

Harley-Davidson FLHTP Stage I

BEGINNING TIME:	<u>1:46 p.m.</u>	TEMPERATURE:	<u>75.2° F</u>
WIND VELOCITY:	<u>4.6 mph</u>	WIND DIRECTION:	West Southwest

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	5.30	5.05	5.21	5.07	5.16
0 - 80	9.40	8.92	9.45	8.94	9.18
0 – 100	20.37	16.40	20.59	17.82	18.80

DISTANCE TO REACH 100 MPH: 0.31 mile **DISTANCE TO REACH 120 MPH:** N/A

TOP SPEED ATTAINED: 109 mph

DISTANCE TO REACH TOP SPEED: 3,239.03 ft. TIME TO REACH TOP SPEED: 26.59 seconds

Harley-Davidson FLHTP Stage IV

BEGINNING TIME: WIND VELOCITY:

<u>11:36 a.m.</u> 5.8 mph

TEMPERATURE: WIND DIRECTION: 70.5° F West Southwest

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	4.59	4.46	4.38	4.32	4.44
0 - 80	7.59	7.25	7.41	7.07	7.33
0 – 100	12.99	11.94	13.03	11.66	12.41

DISTANCE TO REACH 100 MPH: 0.21 **DISTANCE TO REACH 120 MPH:** N/A

TOP SPEED ATTAINED: 110 mph

DISTANCE TO REACH TOP SPEED: 1,915.89 ft. TIME TO REACH TOP SPEED: 16.85 seconds

Yamaha FJR1300

BEGINNING TIME: WIND VELOCITY:

<u>12:59 p.m.</u> 5.8 mph

TEMPERATURE: WIND DIRECTION: 73.0° F South Southwest

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	4.31	4.09	4.09	3.92	4.10
0 - 80	6.71	6.33	6.31	6.06	6.35
0 – 100	10.52	9.69	9.80	9.23	9.81

DISTANCE TO REACH 100 MPH: .16 **DISTANCE TO REACH 120 MPH:** .34

TOP SPEED ATTAINED: 143 mph

DISTANCE TO REACH TOP SPEED: 40,726.63 ft. TIME TO REACH TOP SPEED: 209.92 seconds

Zero DSRP

BEGINNING TIME:2:20 p.m.WIND VELOCITY:6.9 mph

<u>.m</u>. <u>h</u> TEMPERATURE: WIND DIRECTION: 75.0° F Southwest

SPEEDS	RUN 1	RUN 2	RUN 3	RUN 4	AVERAGE
0 - 60	4.73	4.69	4.89	4.89	4.80
0 - 80	7.63	7.49	7.86	7.86	7.71
0 – 100	15.14	13.38	16.59	15.24	15.09

DISTANCE TO REACH 100 MPH: .25 DISTANCE TO REACH 120 MPH: N/A

TOP SPEED ATTAINED: 102 mph

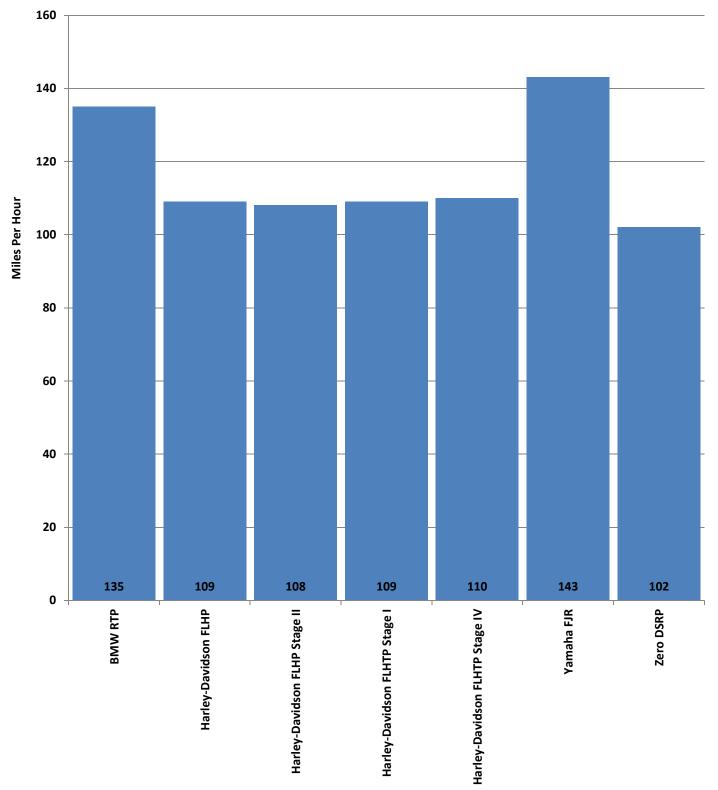
DISTANCE TO REACH TOP SPEED: 1,634.39 ft. TIME TO REACH TOP SPEED: 15.62 seconds

This year marks the first time an electric vehicle's range was included as part of the evaluation process in order to provide pertinent information to the reader. After the acceleration testing at Chelsea Proving Grounds, the Zero DSRP completed two laps (9.42 miles) each at a constant speed of 70 mph, 55 mph and 35 mph. The state of charge or battery level was recorded at the start and end of each lap. Due to the Zero's linear discharge rate at any given speed, an expected range for each speed could then be calculated. The weight of the test rider and protective gear was approximately 240 lbs. Expected range was calculated by dividing the distance traveled (9.42 miles) by the percent change in state of charge (SOC).

SPEED	SOC Start	SOC After Lap 1	SOC After Lap 2	Change	Expected Range (mi)
70 mph	76	69	59	17	55.41
55 mph	59	52	46	13	72.46
35 mph	46	42	37	9	104.67

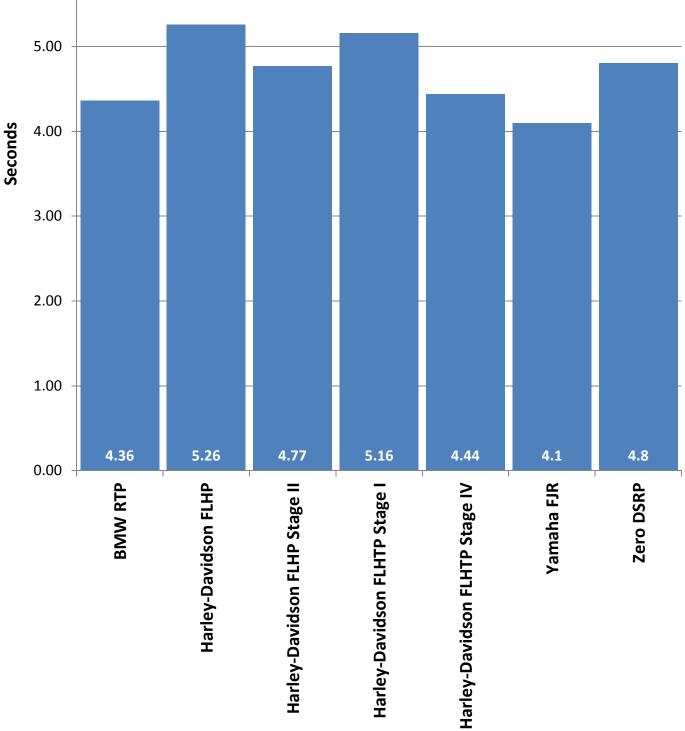
SUMMARY OF MOTORCYCLE ACCELERATION & TOP SPEED

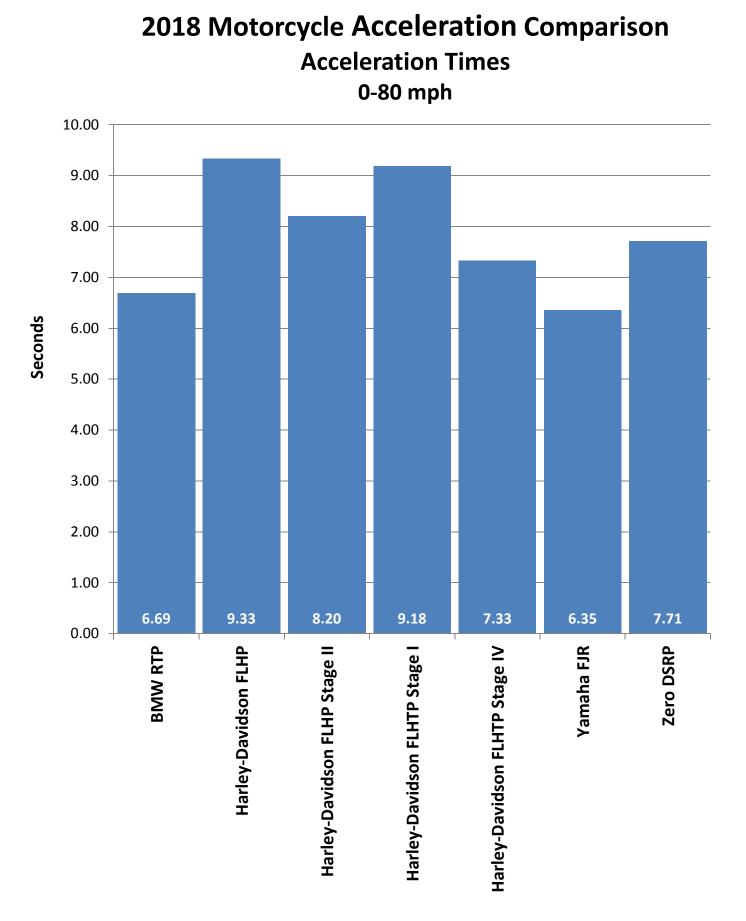
	BMW RTP	Harley- Davidson FLHP	Harley- Davidson FLHP Stage II	Harley- Davidson FLHTP Stage I	Harley- Davidson FLHTP Stage IV	Yamaha FJR	Zero DSRP		
ACCELERATION									
0 – 20 mph (seconds)	1.50	1.23	1.22	1.22	1.22	1.24	1.44		
0 – 30 mph (seconds)	2.15	1.86	1.82	1.89	1.87	1.91	2.21		
0 – 40 mph (seconds)	2.75	2.69	2.58	2.73	2.54	2.55	3.02		
0 – 50 mph (seconds)	3.55	3.87	3.62	3.88	3.46	3.13	3.84		
0 – 60 mph (seconds)	4.36	5.26	4.77	5.16	4.44	4.10	4.80		
0 – 70 mph (seconds)	5.46	7.01	6.39	6.99	5.79	5.04	6.04		
0 – 80 mph (seconds)	6.69	9.33	8.20	9.18	7.33	6.35	7.71		
0 – 90 mph (seconds)	8.36	12.68	11.04	12.80	9.52	7.85	10.26		
0 – 100 mph (seconds)	10.34	19.12	14.77	18.80	12.41	9.81	15.09		
TOP SPEED (mph)	135	109	108	109	110	143	102		
DISTANCE TO REAC	н								
100 mph (feet)	872.65	1,867.25	1,569.05	1,661.37	1,106.89	841.48	1,301.16		
120 mph (feet)	2021.66	N/A	N/A	N/A	N/A	1816.22	N/A		
Top Speed (feet)	6,879.27	3,212.81	2,579.10	3,239.03	1,915.89	40,726.63	1,634.39		

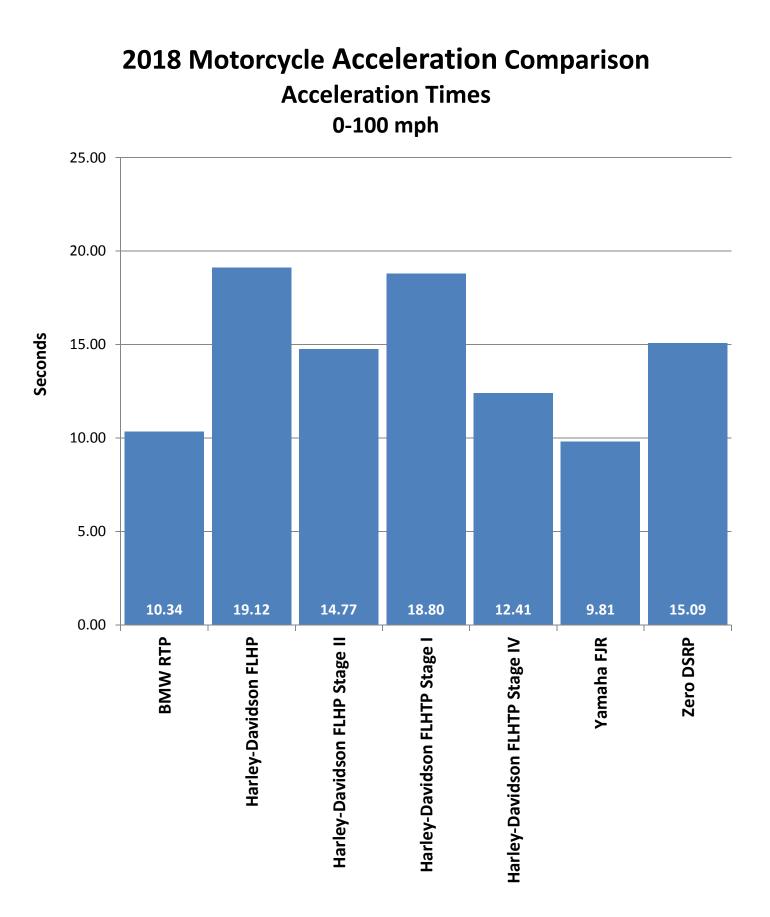


2018 Motorcycle Top Speed Comparison Top Speed Attained

6.00 2018 Motorcycle Acceleration Comparison Acceleration Times 0-60 mph







MOTORCYCLE BRAKE TESTING

BRAKE TEST OBJECTIVE

To determine the deceleration rate attained by each test motorcycle on twenty 60 - 0 mph full ABS maximum deceleration panic stops. Each motorcycle will be scored on the average deceleration rate it attains.

BRAKE TEST METHODOLOGY

Each motorcycle makes ten measured 60 - 0 mph full ABS maximum deceleration panic stops, at specific predetermined points. After a one-mile lap to cool the brakes, the entire sequence is repeated. The exact initial velocity at the beginning of each of the 60 - 0 mph decelerations, and the exact distance required to make each stop, is recorded by means of a Race Logic Vbox 3i GPS based data collection unit. The data resulting from the twenty total stops is used to calculate the average deceleration rate which is the motorcycle's score for this test. To ensure consistency, the same rider performs all the stops on every motorcycle.

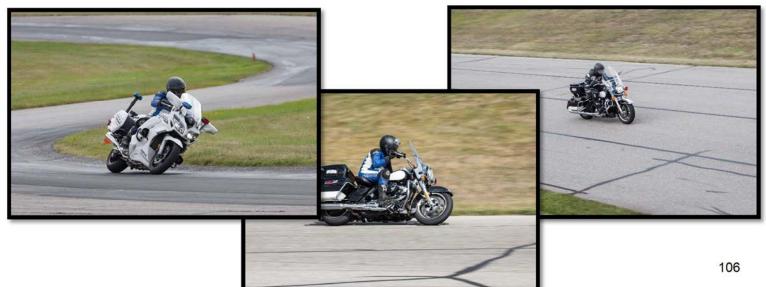
DECELERATION RATE FORMULA

					Initia	I Velocity*(IV) squared		_	(IV) ²
Decel	eration F	Rate (DF	R)	=	2 time	es Stopping D	istance (SD) =		2 (SD)
EXAN	IPLE:									
	Initial Ve Stoppin		ce	= =	89.17 171.4	5 ft/s (60.8 m ft.	ph x 1.46	67*)		
	DR	=	<u>(IV)</u> 2 2(SD)		=	<u>(89.175)²</u> 2(171.4)	=	<u>7952.24</u> 342.8	=	23.198 ft/s ²

Once a motorcycle's average deceleration rate has been determined, it is possible to calculate the stopping distance from any given speed by utilizing the following formula:

Select a speed; translate that speed into feet per second; square the feet per second figure by multiplying it by itself; divide the resultant figure by 2; divide the remaining figure by the average deceleration rate of the motorcycle in question.

EXAMPLE: 60 mph = $88.002 \text{ ft/s} \times 88.002 = 7744.352 / 2 = 3872.176 / 23.198 \text{ ft/s}^2 = 166.9 \text{ ft}.$



BMW R 1200 RT-P

TEST LOCATION: MSP Precision Drive Track **DATE:** September 15, 2017 **BEGINNING TIME:** 9:34 a.m.

AIR TEMPERATURE: 66.0° F TRACK SURFACE TEMPERATURE: 68.2° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	56.88	115.79	30.05
2	57.52	117.89	30.18
3	61.68	134.85	30.34
4	60.18	128.04	30.42
5	59.92	130.50	29.59
6	59.86	130.54	29.52
7	59.17	127.98	29.42
8	59.55	136.58	27.93
9	58.69	123.47	30.01
10	59.19	132.28	28.48
AV	ERAGE DECELEI	29.59 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)	
1	59.43	122.40	31.03	
2	58.74	124.28	29.86	
3	58.91	125.77	29.68	
4	58.82	125.66	29.61	
5	59.39	125.42	30.25	
6	59.67	124.57	30.74	
7	60.27	132.98	29.38	
8	59.59	128.03	28.72	
9	59.69	129.10	29.68	
10	10 **Not recorded due to data collection error			
AV	AVERAGE DECELERATION RATE: 29.88 ft/s ²			

Phase III

OVERALL AVERAGE DECELERATION RATE: 29.73 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 130.24 feet

Evidence of Severe Fading?	No
Motorcycle Stopped in Straight Line?	Yes
Motorcycle Stopped Within Correct Lane?	Yes

Harley-Davidson FLHP

TEST LOCATION: MSP Precision Drive Track **DATE:** September 15, 2017 **BEGINNING TIME:** 11:19 a.m.

AIR TEMPERATURE: 62.1° F TRACK SURFACE TEMPERATURE: 84° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.15	131.65	29.56
2	58.85	122.16	30.49
3	59.94	130.74	29.56
4	59.33	130.05	29.11
5	60.16	139.74	27.85
6	60.51	133.12	29.58
7	60.34	138.72	28.23
8	59.15	131.15	28.69
9	60.67	142.35	27.81
10	60.31	136.05	28.75
AV	/ERAGE DECELER	RATION RATE:	28.97 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.79	136.83	28.10
2	60.42	143.89	27.29
3	60.58	132.57	29.77
4	61.24	143.37	28.14
5	59.68	131.94	29.03
6	60.86	146.79	27.14
7	59.97	137.24	28.19
8	60.64	142.67	27.72
9	59.78	132.96	28.91
10	61.28	144.31	27.99
AV	ERAGE DECELEI	RATION RATE:	28.23 ft/s ²

Phase II

OVERALL AVERAGE DECELERATION RATE: 28.60 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 135.39 feet

Evidence of Severe Fading?	No
Motorcycle Stopped in Straight Line?	Yes
Motorcycle Stopped Within Correct Lane?	Yes

Harley-Davidson FLHP Stage II

TEST LOCATION: MSP Precision Drive Track DATE: September 15, 2017 BEGINNING TIME: 9:46 a.m.

AIR TEMPERATURE: 61.0° F TRACK SURFACE TEMPERATURE: 70.6° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.79	133.83	28.73
2	58.80	126.90	29.30
3	59.70	129.41	29.62
4	59.26	124.51	30.33
5	61.07	136.26	29.44
6	59.43	127.13	29.88
7	58.94	131.45	28.43
8	57.82	126.17	28.50
9	59.74	136.76	28.07
10	58.77	129.21	28.75
AV	ERAGE DECELER	29.11 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)	
1	58.60	124.86	29.58	
2	59.41	134.78	28.16	
3	58.90	128.20	29.11	
4	59.85	141.42	27.24	
5	59.21	130.60	28.87	
6	59.71	136.25	28.14	
7	59.07	134.16	27.98	
8	60.06	142.90	27.15	
9	58.84	133.68	27.86	
10	59.80	139.34	27.61	
AV	AVERAGE DECELERATION RATE: 28.17 ft/s ²			

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.64 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 135.20 feet

Evidence of Severe Fading?	No
Motorcycle Stopped in Straight Line?	Yes
Motorcycle Stopped Within Correct Lane?	Yes

Harley-Davidson FLHTP Stage I

TEST LOCATION: MSP Precision Drive Track DATE: September 15, 2017 BEGINNING TIME: 10:53 a.m.

AIR TEMPERATURE: 72.0° F TRACK SURFACE TEMPERATURE: 81.2° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.35	133.22	29.40
2	59.76	129.59	29.64
3	59.43	133.32	28.49
4	59.81	131.17	29.33
5	60.88	139.96	28.48
6	60.10	131.90	29.46
7	61.33	138.58	29.19
8	61.04	135.31	30.66
9	59.70	135.98	28.19
10	60.50	136.75	28.79
AV	ERAGE DECELER	29.16 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)	
1	60.53	133.47	29.53	
2	60.59	143.77	27.47	
3	59.50	129.64	29.37	
4	60.86	144.74	27.52	
5	60.27	137.37	28.44	
6	60.64	140.49	28.15	
7	60.51	139.17	28.30	
8	60.28	139.01	28.11	
9	60.34	137.17	28.55	
10	60.49	147.13	26.75	
AV	AVERAGE DECELERATION RATE: 28.22 ft/s ²			

Phase III

OVERALL AVERAGE DECELERATION RATE: 28.69 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 134.97 feet

Evidence of Severe Fading?	No
Motorcycle Stopped in Straight Line?	Yes
Motorcycle Stopped Within Correct Lane?	Yes

Harley-Davidson FLHTP Stage IV

TEST LOCATION: MSP Precision Drive Track DATE: September 15, 2017 BEGINNING TIME: 9:16 a.m.

AIR TEMPERATURE: 60.1° F TRACK SURFACE TEMPERATURE: 67° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	58.96	132.58	28.20
2	58.05	126.43	28.67
3	59.44	137.21	27.70
4	58.64	13167	28.09
5	59.37	137.77	27.52
6	58.99	134.59	26.88
7	59.19	133.04	28.32
8	59.75	138.06	27.81
9	59.13	135.86	27.68
10	59.12	130.60	28.78
AVERAGE DECELERATION RATE:			27.97 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.24	130.42	28.94
2	59.75	140.79	27.27
3	58.74	132.58	27.99
4	59.81	141.15	27.26
5	59.50	134.97	28.21
6	60.87	148.72	26.81
7	59.34	134.10	28.24
8	59.90	143.17	26.95
9	59.79	140.80	27.31
10	60.13	143.39	27.12
AV	ERAGE DECELEI	RATION RATE:	27.61 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 27.79 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 139.34 feet

Evidence of Severe Fading?	No
Motorcycle Stopped in Straight Line?	Yes
Motorcycle Stopped Within Correct Lane?	Yes

Yamaha FJR1300

TEST LOCATION: MSP Precision Drive Track **DATE:** September 15, 2017 **BEGINNING TIME:** 10:37 a.m.

AIR TEMPERATURE: 71.6° F TRACK SURFACE TEMPERATURE: 79° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.15	147.10	26.45
2	59.03	133.96	27.98
3	59.77	139.50	25.87
4	59.52	134.58	28.32
5	59.94	141.34	27.34
6	60.14	142.18	27.31
7	60.61	150.97	26.17
8	59.95	139.08	27.80
9 **Not recorded due to data collection error			ection error
10	10 **Not recorded due to data collection error		
AVERAGE DECELERATION RATE: 27			27.16 ft/s ²

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.29	153.62	25.45
2	59.03	138.61	27.04
3	59.72	143.80	26.68
4	59.88	140.43	27.46
5	60.47	147.69	26.63
6	60.38	145.73	26.91
7	59.44	144.18	26.36
8	60.21	137.12	28.44
9	**Not re	ecorded due to data coll	ection error
10	10 **Not recorded due to data collection error		
AV	AVERAGE DECELERATION RATE: 26.87 ft/s ²		

Phase III

OVERALL AVERAGE DECELERATION RATE: 27.01 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 143.36 feet

Evidence of Severe Fading?		
Motorcycle Stopped in Straight Line?	Yes	
Motorcycle Stopped Within Correct Lane?	Yes	

Zero DSRP

TEST LOCATION: MSP Precision Drive Track**DATE:** September 15, 2017**BEGINNING TIME:** 11:06 a.m.

AIR TEMPERATURE: 72.2° F TRACK SURFACE TEMPERATURE: 83.4° F

Phase I

(Ten 60 – 0 mph full ABS maximum deceleration stops)

Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	60.25	143.86	27.14
2	60.16	148.82	26.15
3	60.99	148.64	26.92
4	60.10	139.56	27.84
5	60.11	142.17	27.33
6	61.00	147.00	27.23
7	59.34	127.34	29.74
8	58.10	132.02	27.50
9	59.38	132.50	28.62
10	60.21	137.16	28.43
A۱	/ERAGE DECELEI	27.79 ft/s ²	

(One cool down lap at 45 mph)

Phase II

(Ten 60 – 0 mph full ABS maximum deceleration stops)

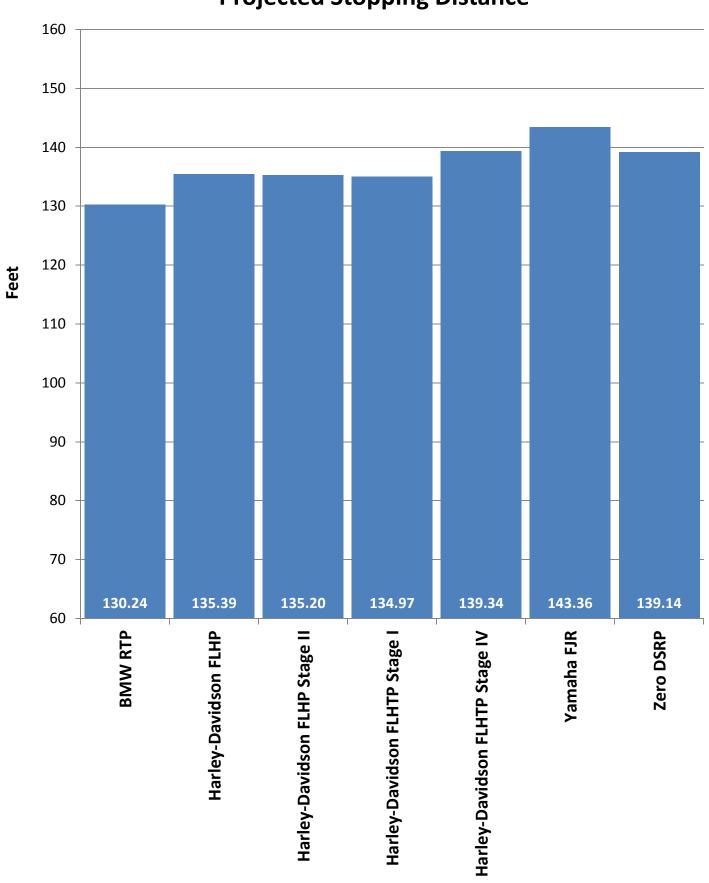
Stop #	Initial Velocity (mph)	Stopping Distance (feet)	Deceleration Rate (ft/s ²)
1	59.39	140.74	26.96
2	60.64	145.58	27.17
3	59.83	130.23	29.56
4	59.55	134.43	28.37
5	60.41	141.64	27.71
6	60.83	148.32	26.83
7	60.09	138.52	28.04
8	60.51	144.10	27.33
9	59.81	135.07	28.48
10	60.13	137.40	28.30
AV	ERAGE DECELEI	RATION RATE:	27.88 ft/s ²

Phase III

OVERALL AVERAGE DECELERATION RATE: 27.83 ft/s²

PROJECTED STOPPING DISTANCE FROM 60.0 mph: 139.14 feet

Evidence of Severe Fading?		
Motorcycle Stopped in Straight Line?	Yes	
Motorcycle Stopped Within Correct Lane?	Yes	



2018 Motorcycle Brake Testing Projected Stopping Distance

For Your Information

About the National Institute of Justice

NIJ — the research, development, and evaluation agency of the U.S. Department of Justice - is dedicated to improving knowledge and understanding of crime and justice issues through science. NIJ provides objective and independent knowledge and tools to inform the decision-making of the criminal justice community to reduce crime and advance justice, particularly at the state and local levels.

NIJ's pursuit of this mission is guided by the following principles:

- Research can make a difference in individual lives, in the safety of communities and in creating a more effective and fair justice system.
- Government-funded research must adhere to processes of fair and open competition guided by rigorous peer review.
- NIJ's research agenda must respond to the real world needs of victims, communities, and criminal justice professionals.
- NIJ must encourage and support innovative and rigorous research methods that can provide answers to basic research questions as well as practical, applied solutions to crime.
- Partnerships with other agencies and organizations, public and private, are essential to NIJ's success.

The National Institute of Justice is committed to being a transformative force in the criminal justice field by meeting five strategic challenges:

- 1. **Fostering science-based criminal justice practice** supporting rigorous scientific research to ensure the safety of families, neighborhoods, and communities.
- 2. **Translating knowledge to practice** disseminating rigorous scientific research to criminal justice professionals to advance what works best in preventing and reducing crime.
- 3. Advancing technology building a more effective, fair and efficient criminal justice system through technology.
- 4. Working across disciplines connecting the physical, forensic and social sciences to reduce crime and promote justice.
- 5. **Bolstering the research** infrastructure supporting young scholars, encouraging researchers from a broad array of disciplines to apply their work to criminal justice, and increasing the availability of research findings and data.
- 6. Adopting a global perspective understanding crime in its social context within the U.S. and globally.

About the Standards and Testing Program

The NIJ Standards and Testing Program develops and publishes equipment standards that specifically address the needs of law enforcement, corrections, and other criminal justice agencies. The goal is to ensure to the degree possible that equipment is safe, reliable, and performs according to established minimum requirements.

NIJ standards are voluntary standards. Manufacturers are neither required nor mandated to follow them. They are also performance standards. They do not specify a particular solution, but rather define what a potential solution must accomplish.

Even though NIJ standards are not regulatory in nature, they are nevertheless influential because they articulate best practice. They obtain their influence from an agency's consideration of the legal or monetary penalties that may ensue as a consequence of a bad outcome resulting from not adopting a standard.

Having a standard provides the end user with performance information on key equipment characteristics, provides a level of confidence in a product's fitness for use and allows comparison of products based on standardized testing methods and minimum performance requirements.

NIJ standards are an articulation of the criminal justice practitioner's operational needs and associated performance levels with regard to particular tools and technology. They reflect the practical experiences of the community in the field articulated in such a way as to enable testing in a valid and consistently replicable manner.

NIJ also supports testing programs based on the standards.

For more information, please visit the NIJ website at <u>http://www.nij.gov/topics/technology/standards-</u> <u>testing/Pages/welcome.aspx</u>, or JUSTNET, the website of the Justice Technology Information Center, at <u>https://www.justnet.org/compliant/Learn-about-testing.html</u>. JTIC manages the Compliance Testing Program for NIJ