



2018 Highlander Hybrid Product Information

#Highlander #Hybrid

HYBRID POWER SYSTEM	
Hybrid System Net Horsepower	306
ENGINE	
Type, Materials	V6 aluminum block and heads DOHC 24-valve with VVT-iW and VVT-i
Valvetrain	DOHC, 4-valve/cylinder
Displacement	3.5-liter
Bore x Stroke	3.70 x 3.27
Compression Ratio	12.5:1
Horsepower (SAE Net)	231 hp (172 kW) @ 5,800 rpm
Torque	215 lb-ft @ 4,800 rpm
Fuel System	Electronic Fuel Injection (EFI)
Recommended Fuel	87-octane unleaded (or higher)
Emission Certification	SULEV (California) Tier 2 – Bin 3 (all other states)
EPA Estimated Fuel Economy* (city/highway/combined MPG)	LE 30/28/29 XLE/Limited/Limited Platinum 29/27/28 *2018 EPA MPG Estimates. Actual mileage will vary.
ELECTRIC MOTOR	
Motor Generator 1 (MG1)	
-Function	Generator, engine starter, transmission ratio control
- Type	Permanent magnet motor
- Max. Voltage	AC 650V
Motor Generator 2 (MG2)	
-Function	Drives front wheels, regeneration during braking
- Type	Permanent magnet motor
- Max. Voltage	AC 650V
- Max. Output	167 hp (123 kW)
- Max. Torque	247 lb-ft
Motor Generator Rear (MGR)	
-Function	Drives rear wheels, regeneration during braking
- Type	Permanent magnet motor
- Max. Voltage	AC 650V
- Max. Output	68 hp (50 kw)
- Max. Torque	103 lb-ft
HYBRID BATTERY PACK	
Type	Sealed nickel metal hydride (Ni-MH)
Nominal Voltage	288V
Maximum Power Output	45 kW

DRIVETRAIN	
Layout	AWD-i models equipped with front and rear electric drive motors
Transmission Type	Electronically controlled continuously variable transmission with planetary gear unit for gear reduction and power splitting; electronic all-wheel drive control system
Designation (Front)	P313
Differential Ratio (Front)	3.542



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CHASSIS AND BODY	
Body/Frame	Unitized steel
Suspension	- Front MacPherson strut, coil springs - Rear Double-wishbone style multi-link rear suspension
Steering	- Type Electronic Power Steering (EPS): Rack and pinion with electronic power assist - Overall Ratio 16:1 - Turns, Lock to Lock 2.74 - Turning Circle 38.7 ft. Diameter (curb to curb)
Brakes	- Type Electronically Controlled Brake system (ECB) with regenerative control and incorporating Anti-Lock Brakes (ABS), Electronic Brake force Distribution (EBD), Brake Assist and Vehicle Dynamics Integrated Management system (VDIM) - Front Type/Diameter Ventilated Disc/12.9 in. - Rear Type/Diameter Solid Disc /12.2 in.
Anti-lock Brake System (ABS)	4 channel, 4 sensor
Wheel Size	7.5 x 18 in. (LE/XLE) 7.5 x 19 in. (Limited/Limited Platinum)
Wheel Type and Material	Five-spoke machined-face alloy in gunmetal grey finish (LE) Turbine-look alloy wheels with painted finish (XLE) Five-spoke Chromtec® alloy wheels (Limited) Chromtec alloy wheels in dark finish (Limited Platinum)
Tire Size	P245/60 R18 105S P245/55 R19 105S
Tire Type	All-season steel-belted radial
Spare Tire/Wheel	Temporary 18-inch tire

EXTERIOR DIMENSIONS	
Wheelbase	109.8 in.
Overall Length	192.5 in.
Overall Width	75.8 in.
Overall Height	68.1 in. w/o shark fin antenna 70.1 in. w/ shark fin antenna
Tread Width (Front/Rear)	64.4/64.2 in.
Ground Clearance	8.0 in.
Coefficient of Drag	0.33 (LE/XLE) 0.34 (Limited/Limited Platinum)
Angle of Approach/Departure	18/23.1 degrees (LE/XLE) 17.6/23.9 degrees (Limited/Limited Platinum)


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INTERIOR DIMENSIONS				
Seating Capacity	7 (Limited/Limited Platinum) 8 (LE/XLE)			
Headroom	w/ moonroof	w/o moonroof	w/ panoramic moonroof	
- First Row	39.5 in.	40.7 in.	39.8 in.	
- Second Row	39.6 in.	39.9 in.	37.8 in.	
- Third Row	35.9 in.	35.9 in.	35.9 in.	
Legroom				
- First Row	44.2 in.			
- Second Row	38.4 in.			
- Third Row	26.7 in.			
Shoulder Room				
- First Row	59.3 in.			
- Second Row	59.0 in.			
- Third Row	55.0 in.			
Hip Room				
- First Row	57.2 in.			
- Second Row	57.1 in.			
- Third Row	45.6 in.			
EPA Interior Volume	154.9 cu. ft. w/ moonroof 152.9 cu. ft. w/ panoramic moonroof			
EPA Passenger Volume	142.2 cu. ft. w/ moonroof (XLE) 141.1 cu. ft. w/ moonroof (Limited) 144.9 cu. ft. w/o moonroof 139.3 cu. ft. w/ panoramic moonroof			
EPA Cargo Volume	<u>LE</u>	<u>XLE</u>	<u>Limited</u>	<u>Ltd. Platinum</u>
Behind 1 st row seat	83.7 cu. ft.	83.2 cu. ft.	83.2 cu. ft.	83.2 cu. ft.
Behind 2 nd row seat	42.3 cu. ft.	42.3 cu. ft.	42.3 cu. ft.	42.0 cu. ft.
Behind 3 rd row seat	13.8 cu. ft.	13.8 cu. ft.	13.8 cu. ft.	13.6 cu. ft.
EPA Class	Mid-size SUV			

WEIGHTS AND CAPACITIES	
Curb Weight	4,398 lbs. (LE) 4,464 lbs. (XLE) 4,861 lbs. (Limited/Limited Platinum)
GVWR	6,000 lbs. (LE/XLE) 6,270 lbs. (Limited/Limited Platinum)
Payload	1,305 lbs. (Limited/Limited Platinum)
Maximum Towing Weight	3,500 lbs.
Maximum Tongue Weight	350 lbs.
Fuel Capacity	19.2 gal. (LE/XLE) 17.2 gal. (Limited/Limited Platinum)

STANDARD EXTERIOR FEATURES

LE

- Projector-beam halogen smoked-chrome accent headlights with auto on/off feature
- Daytime Running Lights (DRL) with on/off feature
- LED tail and stoplights
- Hybrid blue accent badges
- Color-keyed heated power outside mirrors with turn signal lamp and folding feature
- Color-keyed outside door handles
- 18-inch split five-spoke machined-face alloy wheels with gunmetal grey finish and black center caps with P245/60R18 105S tires
- Black front and rear mudguards
- Washer-linked variable intermittent windshield wipers and intermittent rear wiper
- Windshield wiper de-icer
- UV reduction glass on all windows
- High Solar Energy-Absorbing (HSEA) glass on front and rear side windows
- Privacy glass on rear side, quarter, and liftgate windows
- Color-keyed rear spoiler with LED center high-mount stop lamp

XLE (In addition to or in place of LE standard features)

- Integrated fog lights
- Addition of blind spot warning indicators to color-keyed heated power outside mirrors with turn signal lamp and folding feature
- Power tilt/slide moonroof with sunshade and jam protection
- 18-inch turbine-look alloy wheels with painted finish and black center caps with P245/60R18 105S tires
- Flip-up rear hatch window
- Height-adjustable power liftgate with jam protection
- Chromtec roof rails

Limited (In addition to or in place of XLE standard features)

- Projector-beam halogen smoked-chrome accent headlights w/ LED DRL and on/off feature
- Headlamp-integrated LED Daytime Running Lights (DRL) with on/off feature
- Addition of puddle lamps to color-keyed heated power outside mirrors with memory, turn signal lamp, blind spot warning indicators and folding feature
- 19-inch five-spoke Chromtec alloy wheels and black center caps with P245/55R19 105S tires
- Rear bumper chrome garnish

Limited Platinum (In addition to or in place of Limited standard features)

- Panoramic moonroof with power sunshade and jam protection
- Addition of puddle lamps with Highlander projection to color-keyed heated power outside mirrors with memory, turn signal lamp, blind spot warning indicators and folding feature
- 19-inch five-spoke Dark-Chromtec alloy wheels and black center caps with P245/55R19 105S tires
- Rain Sensing Windshield Wipers



STANDARD INTERIOR FEATURES

LE

- Front and rear air conditioning with air filter and second- and third-row vents
- Integrated backup camera with projected path
- 4.2-inch color LCD Multi-Information Display in meter cluster with odometer, current/average fuel economy, cruising range, and ECO driving indicator
- Fabric-trimmed front and second-row seats; 6-way adjustable driver's seat, 4-way adjustable front passenger seat; 60/40 split sliding and reclining fold-flat second-row seats
- Fabric-trimmed 60/40 split fold-flat third-row seat with sliding headrests and recline function
- Gated shift lever with knob, silver metallic shift bezel, and LED indicator illumination
- Tilt/telescopic 3-spoke steering wheel with metallic accents and audio, Multi-Information Display, Bluetooth® hands free-phone, voice command, and cruise controls
- Optitron instrumentation with blue-illuminated speedometer and tachometer/Hybrid power system meter (Hybrid models only) and 4.2" color LCD Multi-Information Display screen
- Soft-touch upper door trim with metallic accent, fabric-covered door armrest area with black interior door handles
- Smart Key System on front doors and liftgate with Push Button Start and remote keyless entry system with illuminated entry
- Power windows with driver and front passenger auto up/down and jam protection
- Rear liftgate window defogger
- Power door locks with shift-linked automatic lock/unlock feature
- Day/night rearview mirror
- Overhead console with maplights, sunglasses storage, and conversation mirror
- 24.5-liter soft-touch roll-top center console with removable utility tray
- Soft-touch in-dash shelf with easy cable management
- Eight cup holders and four bottle holders
- Dual sun visors with sliding function and illuminated vanity mirrors
- Two 12V auxiliary power outlets [1 front I/P and 1 center console]
- Five total USB ports [3 front (including 1 USB 2.0 port) and 2 second-row area]
- Four cargo area tie-down cargo hooks
- Cargo area lights
- Front and second-row seat reading lights
- Digital clock

XLE (In addition to or in place of LE standard features)

- Three-zone automatic climate control with air filter, separate second-row control panel, individual temperature settings for driver, front passenger and rear-seat passengers and second- and third-row vents
- 4.2-in. color LCD Multi-Information Display in meter cluster with odometer, current/average fuel economy, cruising range, average speed, AWD torque distribution (AWD gas models only), cruise control guide, navigation with turn-by-turn directions, audio status, hands-free incoming call notices, telephone information, ECO driving indicator, and energy monitor (Hybrid models only)
- Leather-trimmed front and second-row seats; heated front seats, 8-way power-adjustable driver's seat including power thigh support, lumbar support, 4-way power-adjustable front passenger seat, and 60/40 split sliding & reclining fold-flat second-row seats
- SofTex®-trimmed 60/40 split fold-flat third-row seat with sliding headrests and recline function
- Gated shift lever with silver metallic/leather-trimmed knob, silver metallic shift bezel and LED indicator illumination



STANDARD INTERIOR FEATURES - CONTINUED

XLE – Continued

- Leather-trimmed tilt/telescopic 3-spoke steering wheel with metallic accents, and audio, Multi-Information Display, Bluetooth hands-free phone, voice command, dynamic radar cruise control, and multi-media information controls
- Soft-touch upper door trim with metallic accent, leatherette-trimmed door armrest area with satin chrome interior door handles
- Auto-dimming rearview mirror
- Overhead console with maplights, sunglasses storage, conversation mirror, and HomeLink® universal transceiver
- One 120V auxiliary AC power outlet [second-row area]
- Second-row retractable window sunshades
- Driver Easy Speak - utilizes microphone in overhead console to amplify the driver's voice and broadcast it through rear speakers

Limited (In addition to or in place of XLE standard features)

- Integrated backup camera with dynamic gridlines
- Perforated leather-trimmed heated and ventilated front row seats, 8-way power-adjustable memory driver's seat including power thigh support and lumbar support, 4-way power adjustable front passenger seat, and second-row captain's chairs with side table
- Soft-touch upper door trim with wood-grain accent, leatherette-trimmed door armrest area with satin chrome interior door handles
- Blue LED ambient lighting on interior of front and rear doors and in-dash shelf
- Power windows with auto up/down and jam protection in all positions
- Day/night rearview mirror
- Rear cargo area tonneau cover

Limited Platinum (In addition to or in place of Limited standard features)

- Bird's Eye View Camera - Perimeter Scan, Overhead 360 degree view in drive and reverse, and curb view
- Perforated leather-trimmed heated and ventilated front-row seats, 8-way power-adjustable memory driver's seat with power thigh support, lumbar support, 4-way power adjustable front passenger seat, and heated second-row captain's chairs with side table
- Leather-trimmed heated tilt/telescopic 3-spoke steering wheel with metallic accents and audio, Multi-Information Display, Bluetooth hands-free phone, dynamic radar cruise control, and multi-media information controls

STANDARD AUDIO SYSTEMS

LE

- Entune™ Audio - includes the Entune Multimedia Bundle (6.1-in. high resolution touch-screen display, AM/FM CD player, MP3/WMA playback capability, 6 speakers, auxiliary audio jack, USB 2.0 port with iPod® connectivity and control, advanced voice recognition, hands-free phone capability, phone book access and music streaming via Bluetooth wireless technology), Siri® Eyes Free, Intelligent Touch controls and integrated backup camera display with projected path

STANDARD AUDIO SYSTEMS – CONTINUED

XLE

- Entune Premium Audio with In-Vehicle Navigation and App Suite - includes the Entune Multimedia Bundle (8-in. high resolution touch-screen with split screen display, AM/FM CD player, MP3/WMA playback capability, 6 speakers, auxiliary audio jack, USB 2.0 port with iPod connectivity and control, advanced voice recognition, hands-free phone capability, phone book access and music streaming via Bluetooth wireless technology), Siri Eyes Free, Entune App Suite, Intelligent Touch Controls, SiriusXM® All Access Radio with three-month complimentary trial, HD radio, HD predictive traffic and Doppler weather overlay, AM/FM cache radio, and Gracenote® album cover art and integrated backup camera display with projected path

Limited/Limited Platinum

- Entune Premium JBL® Audio with In-Vehicle Navigation and App Suite - includes the Entune Multimedia Bundle (8-in. high resolution touch-screen with split screen display, AM/FM CD player, MP3/WMA playback capability, 12 JBL GreenEdge™ speakers, auxiliary audio jack, USB 2.0 port with iPod connectivity and control, advanced voice recognition, hands-free phone capability, phone book access and music streaming via Bluetooth wireless technology), Siri Eyes Free, Entune App Suite, Intelligent Touch controls, SiriusXM All Access Radio with three-month complimentary trial, HD radio, HD predictive traffic and doppler weather overlay, AM/FM cache radio, and Gracenote album cover art and integrated backup camera display with dynamic gridlines

STANDARD SAFETY AND SECURITY

- Toyota Safety Sense P™ (TSS-P) - Pre-Collision System with Pedestrian Detection (PCS w/ PD), Lane Departure Alert with Steering Assist (LDA w/ SA), Auto High Beams (AHB) and Dynamic Radar Cruise Control (DRCC)
- Star Safety System™ - includes Electronically Controlled Braking (ECB), Vehicle Dynamics Integrated Management (VDIM), Enhanced Vehicle Stability Control (Enhanced-VSC), Traction Control (TRAC), Anti-lock Brake System (ABS), Electronic Brake-force Distribution (EBD), Brake Assist (BA) and Smart Stop Technology (SST)
- Driver and front passenger Advanced Airbag System
- Driver and front passenger seat-mounted side airbags, driver knee airbag, front passenger seat cushion airbag, and all-row Roll-Sensing Side Curtain Airbags (RSCA)
- Driver and front passenger Whiplash-Injury-Lessening (WIL) seats
- Driver and front passenger seatbelt warning sensor
- Three-point seatbelts for all seating positions; driver-side Emergency Locking Retractor (ELR) and Automatic/Emergency Locking Retractor (ALR/ELR) on all passenger belts
- Adjustable front seatbelt shoulder anchors and driver and front passenger seatbelt pretensioners with force limiters
- LATCH (Lower Anchors and Tethers for CHildren) includes lower anchors and tethers on outboard second-row seats and tether anchor on middle of second and third-row seats
- Child-protector rear door locks
- Collapsible steering column
- Front and rear energy-absorbing crumple zones and side-impact door beams
- Energy-dissipating interior trim
- Tire Pressure Monitor System (TPMS)
- Hill Start Assist Control (HAC)
- Anti-theft system with alarm and engine immobilizer (XLE, Limited and Limited Platinum only)



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STANDARD SAFETY AND SECURITY – CONTINUED

- Safety Connect®— includes Emergency Assistance, Stolen Vehicle Locator, Roadside Assistance and Automatic Collision Notification. Available by subscription. Complimentary one-year trial subscription (Ltd. Platinum only)
- Blind Spot Monitor (BSM) with Rear Cross Traffic Alert (RCTA) (XLE, Limited and Limited Platinum only)
- Front Parking Assist Sonar (Limited Platinum only)
- Rear Parking Assist Sonar (Limited and Limited Platinum only)

STANDARD MECHANICAL FEATURES

- Hybrid engine: 3.5-Liter V6 Double Overhead Cam (DOHC) 24-Valve Direct Injection Atkinson Cycle-capable Engine with VVT-iW (Variable Valve Timing-Intelligent Wider Intake) & VVT-i (Variable Valve Timing-Intelligent Exhaust); EV, ECO, and POWER Modes; 306 hybrid system net hp (228 kW)
- Electronically controlled Continuously Variable Transmission (ECVT) with sequential shift mode
- Electronic On-Demand AWD system with intelligence (AWD-i)
- Independent MacPherson strut front suspension, double-wishbone style multi-link rear suspension, and front and rear stabilizer bars
- Electric Power Steering (EPS); power-assisted rack-and-pinion
- Power-assisted ventilated 12.9-in. front disc brakes; solid 12.2-in. rear disc brakes with Electronically Controlled Braking (ECB) system, integrated regenerative braking and Star Safety System

FACTORY OPTIONS

XLE/Limited

- Rear-Seat BluRay® DVD Entertainment System with 9-in. Display, RCA Jacks, Remote, and Two Wireless Headphones

AVAILABLE EXTERIOR COLORS

- Alumina Jade Metallic
- Ooh La La Rouge Mica
- Toasted Walnut Pearl
- Salsa Red Pearl
- Celestial Silver Metallic
- Midnight Black Metallic
- Predawn Gray Mica
- Blizzard Pearl (\$395)
- Shoreline Blue Pearl

BASIC LIMITED WARRANTY COVERAGE

- 3-year/36,000-mile Comprehensive
- 5-year/60,000-mile Powertrain
- 5-year/unlimited-mileage Corrosion Perforation
- 8-year/100,000-mile Hybrid-related Component Coverage
- ToyotaCare – Complimentary maintenance plan with the purchase or lease of every new Toyota. For 2 years or 25,000 miles, whichever comes first, every new Toyota will be covered for all normal factory scheduled service, as well as 24/7 roadside assistance.