



2019 Avalon HV Information

#Avalon #Hybrid

HYBRID POWER SYSTEM		
Hybrid System Net Horsepower		215 hp
ICE (INTERNAL COMBUSTION ENGINE)		
Type, Materials		2.5-Liter Dynamic Force 4-Cylinder DOHC 16-Valve D-4S Dual Injection with VVT-iE, VVT-I with Eco, Normal, Sport and EV drive modes
Valvetrain		16-valve DOHC with Dual VVT-i
Displacement		2,487 cc
Bore x Stroke		3.44 x 4.07 in.
Compression Ratio		14.0:1
Horsepower		176 hp @ 5,700 rpm
Torque		163 lb-ft @ 3,600-5,200 rpm
Recommended Fuel		87-octane or higher - unleaded
Emission Certification		SULEV30
EPA Estimated Fuel Economy* (city/highway/combined MPG)		43/44/44 (XLE) 43/43/43 (XSE, Limited)
ELECTRIC MOTORS		
Motor Generator 1 (MG1)	- Function	Generator, engine starter, charges hybrid battery
	- 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	118 hp (88 kW)
HYBRID BATTERY PACK		
Type		Sealed Nickel-Metal Hydride (Ni-MH)
Nominal Voltage		244.8 V (204 cells, 1.2V/cells)

*2019 EPA estimated MPG - Actual mileage will vary.



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DRIVETRAIN		
Layout		Front-wheel drive
Transmission Type		Electronically controlled Continuously Variable Transmission (ECVT) with sequential shift mode
CHASSIS AND BODY		
Suspension	- Front	Independent MacPherson strut front suspension with stabilizer bar; multi-link rear suspension with stabilizer bar
	- Rear	Independent MacPherson strut front suspension with stabilizer bar; multi-link rear suspension w/ sport-tuned shock absorbers, stabilizer bar and springs
	- Stabilizer Bar Diameter (front mm/rear mm)	25.4 / 25.0 (XLE) 27.0 / 27.0 (XSE) 25.4 / 25.4 (Limited)
Steering	- Type	Electric power-assisted rack-and-pinion
	- Overall Ratio	TBD
	- Turns (lock-to-lock)	TBD
	- Turning Circle Diameter (curb-to-curb)	37.7 ft. (XLE) 38.7 ft. (XSE, Limited)
Brakes	- Front Type	Power-assisted Ventilated disc
	- Front Diameter	12.0 in.
	- Rear Type	Solid Disc with hydraulic brake booster, Electronically Controlled Braking (ECB) system, integrated regenerative braking and Star Safety System
	- Rear Diameter	11.06 in.
	- Parking	Automatic Electric Parking Brake
Anti-lock Brake System (ABS)		Standard
Wheel Size		17-in. silver-painted alloy wheels with P215/55/R17 tires (XLE) 18-in. super chrome alloy wheels with P235/40R18 tires (Limited)



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	18-in. dark gray-painted alloy wheels with P235/45R18 tires (XSE)
Tire Type	All-season steel-belted radial blackwalls
Spare Tire/Wheel	Temporary (T155/70D17)

EXTERIOR DIMENSIONS		
Wheelbase		113.0 in.
Overall Length		195.9 in.
Overall Width		72.8 in.
Overall Height		56.5 in.
Tread Width	- Front/Rear	63.0/63.6 in. (XLE) 62.3/63.6 (XSE, Limited)
Ground Clearance		5.3 in.

INTERIOR DIMENSIONS		
Seating Capacity		5
Headroom		
	- First	38.5 in. (w/o moonroof) 37.4 in. (w/ moonroof)
	- Second	37.9 in. (w/o moonroof) 37.1 in. (w/ moonroof)
Legroom		
	- First	42.1 in.
	- Second	40.4 in.
Shoulder Room		
	- First	58.3 in.
	- Second	57.1 in.
Hip Room		
	- First	55.8 in.
	- Second	54.8 in.
EPA Cargo Volume		

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- Rear Seatbacks Up	16.09 cu. ft.
EPA Interior Volume	TBD
Passenger Volume	102.6 cu. ft. (XLE, XSE, Limited) 103.8 cu. ft. (XLE w/o moonroof)
EPA Class	Midsize
WEIGHTS AND CAPACITIES	
Curb Weight	3,638 lbs. (XLE) 3,671 lbs. (XSE) 3,715 lbs. (Limited)
Fuel Capacity	13.2 gal.

EXTERIOR FEATURES BY GRADE (— = Not Available, P = Package, S = Standard)			
	XLE	XSE	Limited
Front chrome grille surround with dark gray insert	-	-	-
Front chrome grille surround with dark gray insert and active grille shutter	S	-	S
Front piano black grille with sport mesh insert	-	-	-
Front piano black grille with sport mesh insert and active grille shutter	-	S	-
Aerodynamic front tangential venting	S	S	S
Piano black rear spoiler	-	S	-
Dual exhaust with chrome tips	-	-	-
Dual exhaust with quad chrome tips	-	-	-
Single hidden exhaust	S	S	S
Intake Sound Generator (ISG)	-	-	-
Sport sound-tuned exhaust	-	-	-
LED reflector headlamps and LED DRL with auto on/off feature	S	-	-
LED reflector headlamps with smoked chrome bezel and on/off feature; LED DRL with auto on/off feature	-	S	-



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LED headlamps with smoked chrome bezel and of/off feature; fully-integrated LED DRL with auto on/off feature and laser ablation design with dynamic turn signal	-	-	S
LED tail lights	S	S	-
LED tail lights with laser ablation and dynamic turn signal	-	-	S
Front and rear dynamic auxiliary turn signal	-	-	S

Color-keyed heated power outside mirrors w/ EC, turn signal and blind spot warning indicators and memory features	-	-	S
Color-keyed heated manual outside mirrors with turn signal and blind spot warnings indicators	S	-	-
Color-keyed heated power outside mirrors w/ piano black mirror caps, EC, turn signal and blind spot warning indicators and memory features	-	-	-
Color-keyed heated manual outside mirrors with piano black mirror caps, turn signal and blind spot warnings indicators	-	S	-
17-in. silver-painted alloy wheels with P215/55/R17 tires	S	-	-
18-in. super chrome alloy wheels with P235/40R18 tires	-	-	S
19-in. black-painted machined finish alloy wheels P235/40R19 tires	-	-	-
18-in. dark gray-painted alloy wheels with P235/45R18 tires	-	S	-
Power tilt/slide moonroof with sliding sunshade	P	S	S
Acoustic noise-reducing windshield and driver and front passenger side windows	S	S	S
High Solar Energy-Absorbing (HSEA) glass	S	S	S

INTERIOR FEATURES BY GRADE (— = NOT AVAILABLE, P = PACKAGE, S = STANDARD)			
	XLE	XSE	Limited
Dual zone automatic climate control with air filter and rear-seat vents	-	-	-



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Dual zone automatic climate control with air filter, electric compressor, humidity sensor and rear-seat vents	S	S	S
Active Noise Control (ANC)	-	-	-
Engine Sound Enhancement (ESE)	-	-	-
Genuine wood interior trim	-	-	S
Genuine aluminum interior trim	-	S	-
Hydrographic interior trim	S	-	-
Ambient lighting for cup holders, side of console and door handles	-	-	S
10-in. color Head-Up Display (HUD) with customizable settings, speedometer, navigation, shift position, compass, TSS-P indicators, audio, phone, and outside temperature and adjustable brightness	-	-	-
10-in. color Head-Up Display (HUD) with customizable settings, speedometer, navigation, shift position, compass, TSS-P indicators, audio, phone, outside temperature, Hybrid System Indicator, and adjustable brightness	-	-	S
SofTex®-trimmed heated front seats, 8-way adjustable driver's seat with 2-way power lumbar; 8-way adjustable passenger seats	S	-	-
SofTex®-trimmed seats with perforation + Ultrasuede® heated front seats, 8-way adjustable driver's seat with 2-way power lumbar; 8-way adjustable passenger seats	-	S	-
Premium leather-trimmed heated and ventilated front seats, 8-way adjustable driver's seat with 4-way power lumbar; 8-way adjustable passenger seats with 4-way power lumbar	-	-	S
SofTex®-trimmed seats with perforation + Ultrasuede® heated and ventilated front seats, 8-way adjustable driver's seat with 4-way power lumbar; 8-way adjustable passenger seats with 4-way power lumbar	-	-	-
60/40 split folding rear seats with 2 adjustable and 1 fixed headrest, armrest with cup holders	S	S	S
Heated rear seats	-	-	S
Auto-dimming rear-view mirror with compass, maplights and HomeLink® Universal Transceiver	S	-	-
Frameless auto-dimming rear-view mirror with HomeLink® Universal Transceiver	-	S	S

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7-in. TFT Multi-Information Display with customizable settings, odometer outside temperature, fuel economy and trip information, current/average fuel economy, distance to empty, average speed, trip distance with timer, TPMS, scheduled maintenance, compass and warning messages	-	-	-
7-in. TFT Multi-Information Display with customizable settings, odometer outside temperature, fuel economy and trip information, current/average fuel economy, distance to empty, average speed, hybrid system information, energy monitor, TPMS, scheduled maintenance, compass and warning messages	S	S	S
Heated tilt & telescopic premium leather-trimmed steering wheel with memory function, multi-information display, audio Bluetooth® hands-free and voice-command controls	-	-	S
Heated tilt & telescopic premium leather-trimmed steering wheel with memory function, multi-information display, paddle shifters, audio Bluetooth® hands-free and voice-command controls	-	-	-

Tilt & telescopic premium leather-trimmed steering wheel, multi-information display, paddle shifters, audio Bluetooth® hands-free and voice-command controls	-	S	-
Tilt & telescopic leather-trimmed steering wheel with multi-information display, audio Bluetooth® hands-free and voice-command controls	S	-	-
Four USB 2.0 charge ports	S	S	S
Qi-compatible wireless charging system	P	S	S
Aluminum pedal covers	-	S	-
Smart Key System on front doors and trunk with Push Button Start, remote keyless entry system and remote illuminated entry	S	S	S
Power windows with 4-window auto up/down, jam protection and retained-power features	S	S	S
Rear window defogger with timer	S	S	S
Power door locks with shift-linked automatic locking feature with anti-lockout feature	S	S	S
Overhead console with maplights, sunglasses storage and safety connect button	S	S	S
Covered center console, armrest and storage	S	S	S
One 12V auxiliary power outlet	S	S	S

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Dual sun visors with sliding extensions and illuminated vanity mirrors	S	S	S
Two front and two rear cup holders; two front door and two rear bottle holders	S	S	S
4-Mode Switch (EV, Eco, Normal, Sport)	S	S	S

Packages and Options by Grade (— = Not Available, O = Option)			
	XLE	XSE	Limited
JBL® Audio Upgrade - Entune™ 3.0 Audio Plus with Connected Navigation Scout® GPS Link App and App Suite - JBL® w/Clari-Fi™ - includes 14 speakers	O	O	-
JBL® 4 Audio Upgrade - Entune™ 3.0 Audio Plus with Connected Navigation Scout® GPS Link App and App Suite - JBL® w/Clari-Fi™ 5 - includes 14 speakers - Engine Sound Enhancement (ESE) - Active Noise Control (ANC)	-	-	-
Advanced Safety Package: - Bird's Eye View Camera - Rear Cross-Traffic Braking - Intelligent Clearance Sonar	-	-	P
Moonroof Package - Moonroof - Qi-compatible wireless charging system	P	-	-

Audio Options by Grade (— = Not Available, P = Package, S = Standard)			
	Hybrid XLE	Hybrid XSE	Hybrid Limited
Entune 3.0 Audio Plus with App Suite - 8 speakers, 9-in. touch-screen, audio jack, USB 2.0 port with iPod connectivity and control, voice recognition, hands-free phone capability and music streaming via Bluetooth wireless technology, Apple CarPlay compatible, Scout GPS Link Compatible with 3-year complimentary trial, Siri Eyes Free, HD Radio, Entune App Suite, SiriusXM Satellite Radio with 3-month complimentary SiriusXM All Access trial. Entune 3.0 Toyota Connected Services — Safety Connect with 3-year	S	S	-



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<p>complimentary trial, Service Connect with 3-year complimentary trial, Remote Connect with 6-month complimentary trial, Wi-Fi Connect Powered by Verizon with up to 2gb within 6-month complimentary trial. Access to Entune App Suite is subscription free. See toyota.com/entune for details.</p>			
<p>Entune 3.0 Audio Plus with JBL sound system with Clari-Fi and App Suite – JBL w/ Clari-Fi, 14 speakers including subwoofer and 1200W, 9-in. touch-screen, Apple CarPlay compatible, audio jack, USB 2.0 port with iPod connectivity and control, voice recognition, hands-free phone capability and music streaming via Bluetooth wireless technology, Scout® GPS Link Compatible with 3-year complimentary trial, Siri Eyes Free, HD Radio, Entune App Suite, SiriusXM Satellite Radio with 3-month complimentary SiriusXM All Access trial. Entune 3.0 Toyota Connected Services — Safety Connect with 3-year complimentary trial, Service Connect with 3-year complimentary trial, Remote Connect with 6-month complimentary trial, Wi-Fi Connect Powered by Verizon with up to 2gb within 6-month complimentary trial. Access to Entune App Suite is subscription free. See toyota.com/entune for details.</p>	O	O	-
<p>Entune 3.0 Premium Audio with JBL with Clari-Fi, Dynamic Navigation and App Suite – 14 speakers including subwoofer and 1200W amplifier, 9-in. touch-screen, Apple CarPlay compatible, auxiliary audio jack, USB 2.0 port with iPod connectivity and control, Dynamic Navigation with 3-year complimentary trial, Dynamic POI Search with 3-year complimentary trial, Dynamic voice recognition with 3-year complimentary trial, hands-free phone capability and music streaming via Bluetooth wireless technology, Entune App Suite, Siri Eyes Free, HD Radio, SiriusXM Satellite Radio with 3-month complimentary SiriusXM All Access trial. Entune 3.0 Toyota Connected Services — Safety Connect with 3-year complimentary trial. Service Connect⁷ with 3-year complimentary trial, Remote Connect⁸ with 6-month complimentary trial, Wi-Fi Connect Powered by Verizon with up to 2gb within 6-month complimentary trial, Destination Assist Connect with 6-month complimentary trial. Access to Entune App Suite is subscription free. See toyota.com/entune for details.</p>	-	-	S



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Safety Features by Grade (— = Not Available, P = Package, S = Standard)			
	XLE	XSE	Limited
Star Safety System — includes Enhanced Vehicle Stability Control (VSC), Traction Control (TRAC), 4-wheel Anti-lock Brake System (ABS), Electronic Brake-force Distribution (EBD), Brake Assist (BA) and Smart Stop Technology (SST)	S	S	S
Ten airbags— includes driver and front passenger Advanced Airbag System, driver and front passenger seat-mounted side airbags, driver and front passenger knee airbags, rear seat-mounted side airbags, and front and rear side curtain airbags	S	S	S
Driver and front passenger Whiplash-Injury-Lessening (WIL) seats	S	S	S
3-point seatbelts for all seating positions; driver-side Emergency Locking Retractor (ELR) and Automatic/Emergency Locking Retractor (ALR/ELR) on all passenger seatbelts	S	S	S
LATCH (Lower Anchors and Tethers for CHildren) includes lower anchors on outboard rear seats	S	S	S
Child-protector rear door locks and power window lockout control	S	S	S
Tire Pressure Monitor System (TPMS) with direct pressure readout	S	S	S
Collision sensors: deactivate high-voltage battery	S	S	S
Safety Connect — includes Emergency Assistance, Stolen Vehicle Locator, Roadside Assistance and Automatic Collision Notification. Available by subscription. 3-year trial subscription.	S	S	S
Toyota Safety Sense P (TSS-P) - Pre-Collision System with Pedestrian Detection, Lane Departure Alert with Steering Assist, Automatic High Beams and Full-Speed Range Dynamic Radar Cruise Control	S	S	S
Blind Spot Monitor with Rear Cross-Traffic Alert	S	S	S
Intelligent Clearance Sonar with Rear Cross-Traffic-Braking	-	-	P
Bird's Eye View Camera with Perimeter Scan, overhead 360-degree view in Drive and Reverse, and curb view	-	-	P
Side-impact door beams	S	S	S

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Hill-Start Assist Control (HAC)	S	S	S
Anti-theft system with alarm and Immobilizer	S	S	S
Integrated backup camera with dynamic gridlines	S	S	S
Electric Parking Brake (EPB) with Brake Hold function			
ToyotaCare featuring a no cost maintenance plan with roadside assistance	S	S	S
Energy-absorbing collapsible steering column	S	S	S
Front and rear energy-absorbing crumple zones	S	S	S

AVAILABLE EXTERIOR COLORS

- **(New)** Harbor Gray Metallic
- **(New)** Opulent Amber
- Not available on XSE and Touring
- Wind Chill Pearl*
- Ruby Flare Pearl*
- Celestial Silver Metallic
- Midnight Black Metallic
- Brownstone
- Parisian Night Pearl

BASIC LIMITED WARRANTY COVERAGE

- 3-year/36,000-mile Comprehensive
- 5-year/60,000-mile Powertrain
- 5-year/unlimited-mileage Corrosion Perforation
- 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.