Updated: May 2018

TOYOTA RAV4

INTRODUCTION

The RAV4 range was expanded in 2016 to introduce its first full hybrid electric model, together with revised exterior and interior styling and new equipment grades and features.

The availability of Toyota's hybrid electric technology in the highly competitive European compact SUV market is a perfect response to mature and sophisticated customer demand that reflects greater interest in air quality and the need to develop powertrains that are cleaner and more efficient.

By mid-2017, two thirds of UK RAV4 sales were hybrids, helping prompt expansion of the powertrain's availability across the entire model range. At the same time the RAV4 grade structure was revised to match other new Toyota models, with Icon, Icon Tech, Design and Excel trims.

RAV4's hybrid system combines a 2.5-litre Atkinson cycle petrol engine with a powerful electric motor. It is used in both front and all-wheel drive configurations, the latter equipped with Toyota's E-Four system, which uses a second electric motor at the rear to provide automatic electronic all-wheel drive for greater traction on loose or slippery surfaces. The lightweight technology – there is no central propshaft – also gives RAV4 Hybrid a 1,650kg towing capacity.

Total system power is 194bhp (145kW), enabling nought to 62mph acceleration in 8.4 seconds. Official combined cycle fuel consumption* is from 53.3mpg for the front-wheel drive model and 50.4mpg for the AWD version. CO₂ emissions* start at 122 and 127g/km, respectively.

The powertrain line-up for RAV4 that also includes a 2.0-litre Valvematic petrol engine with a Multidrive S automated continuously variable transmission. It delivers 149bhp (111kW) with peak torque of 195Nm; the combined cycle fuel consumption* and emissions* figures are from 42.2mpg and 154g/km.

^{*} Fuel consumption and emissions figures are NEDC equivalents of WLTP data.

Driving dynamics

RAV4 further benefits from improved ride comfort and driving dynamics, a quieter cabin with higher sensory quality, refreshed exterior styling and innovations in safety and useful advanced technologies. With hybrid power, customers further enjoy an exceptionally quiet and refined driving experience.

Safety and equipment

All versions of RAV4 are fitted with Toyota Safety Sense as standard to provide an impressive range of active safety and driver assistance features. Information and vehicle data are quickly and clearly communicated thanks to a 4.2-inch TFT multi-information display in the centre of the instrument binnacle and a seven-inch full-colour central touchscreen that gives access to the Toyota Touch 2 multimedia system.

POWERTRAIN REVOLUTION MEETS SUV EVOLUTION

- More than one million Toyota hybrids sold in Europe
- More than eight million Toyota global hybrid sales, contributing to an equivalent reduction in CO₂ emissions of more than 58 million tonnes
- Six million RAV4 sold worldwide, 1.5 million of these in Europe with 90 per cent still on the road today
- New RAV4 Hybrid combines prestige, comfort and power with excellent environmental performance

Toyota began researching the idea of an alternative powertrain for cars in the 1960s, but it was in the early 1990s that the company initiated a production-based development programme of environmentally responsible automotive technologies.

In 1994 it began the G2 project with the aim of creating a "green" car for the 21st century which, together with impeccable environmental credentials, offered all the convenience of ease of driving of a conventional vehicle.

Toyota's launch of the first generation Prius in Japan in 1997 was the start of a modern revolution in automotive technology and an industry milestone in vehicle powertrain development and sustainable mobility.

Prius went from being a single model to become the world's first range of full hybrid electric models, the third generation of 2009 being joined by the seven-seat Prius+ MPV and the rechargeable Prius Plug-in from 2012.

Toyota developed its hybrid electric powertrains to be more powerful, yet lighter and more fuel and CO₂-efficient. At the same time it expanded its hybrid range beyond Prius to include Auris Hybrid compact hatchback (2010), the Yaris Hybrid supermini (2012) and the spacious and practical Auris Hybrid Touring Sports (2013) – all of which are built in Europe. The C-HR compact crossover, introduced in 2016, also came with a hybrid electric powertrain as Toyota continued to diversify its model range.

Since Prius's European market debut in 2000, Toyota has sold more than one million hybrid electric vehicles in the region.

Worldwide, Toyota has amassed more than eight million hybrid vehicle sales. Together the Toyota and Lexus brands currently command 60 per cent of the global hybrid market, giving the company unquestionable leadership in the drive towards sustainable mobility. Toyota estimates that so far its hybrids have contributed to a reduction in automotive CO₂ emissions of more than 58 million tonnes, compared to the environmental impact of equivalent non-hybrid vehicles.

RAV4 heritage – from niche model to global car

Toyota can rightfully claim to have created the compact SUV market with the launch of its first RAV4 – Recreational Active Vehicle with 4-wheel Drive – in 1994.

When the first generation model broke cover at the Geneva motor show that year, it revealed itself as something quite different to a traditional 4x4. Launched as a compact (3,695mm long) three-door model, this first "urban 4x4" was powered by a relatively small, transverse-mounted 2.0-litre engine and was designed with a monocoque body with independent suspension all round.

In 1994, Toyota sold 53,000 RAV4. The following year the sales figures doubled, then tripled the year after that. Since then, annual sales have grown steadily with each new generation, turning Toyota's pioneering compact SUV from a niche model into a global car.

In 2013, RAV4 sales were 10 times those of 1994 and in 2014 annual sales rose above 100,000 units for the first time since 2007.

Today RAV4 is on sale in more than 150 countries. Together the four generations have achieved more than six million sales, 1.5 million of these to European customers – more than 90 per cent of which are still on the road.

The compact SUV segment is still growing in Europe and has also changed and matured. Where early customers often bought a compact SUV as an alternative to sporting hatchbacks and coupes, today they are more the choice of families looking for a more engaging and fashionable alternative to MPVs and estate cars.

Competition has also increased dramatically: in 2010 there were 10 different models in the segment; today there are around twice as many to choose from.

Driving power and appeal

RAV4 Hybrid is the most powerful version of RAV4 yet to be sold in Europe. It brings together strong environmental performance with improved driving dynamics, a sequential Shiftmatic gear change and a Sport driving mode to provide an even more rewarding experience behind the wheel.

Its low CO₂ emissions and class-leading official fuel consumption figures provide significant cost of ownership benefits and low tax rates for company car users and fleet operators.

Thanks to Toyota's innovative E-Four system, it provides an electronic all-wheel drive capability to give extra traction and the advantage of a 1,650kg towing capacity.

TOYOTA'S FIRST HYBRID ELECTRIC SUV

- The most powerful RAV4 yet sold in Europe system power of 195bhp (145kW) enables nought to 62mph acceleration in 8.4 seconds
- CO₂ emissions from 122g/km, class-leading official fuel consumption figures
- RAV4 Hybrid AWD with E-Four all-wheel drive system and 1,650kg towing capacity
- Improved vehicle dynamics, sequential Shiftmatic gear change and Sport on-demand drive mode

Summary

RAV4 Hybrid is available in front and all-wheel drive versions, both powered by a hybrid electric system that features a 2.5-litre Atkinson cycle petrol engine and a powerful electric motor.

All-wheel drive is provided by Toyota's E-Four system, which adds a second, rear-mounted electric motor. This gives extra traction the moment it's needed and also gives the car a towing capability. The simplicity of the technology – there is no mechanical central propshaft – saves weight and improves fuel economy.

The seamless E-CVT electronic continuously variable transmission gives acceleration a smooth, natural feel. The addition of a sequential Shiftmatic gear change and Sport drive mode allows customers to enjoy a more engaging drive.

Hybrid electric powertrain

The full hybrid electric powertrain comprises a 2.5-litre Atkinson cycle petrol engine a powerful electric motor/generator, a 204-cell nickel metal-hydride battery, a power control unit and a power split device.

The engine is a 2,494cc, 16-valve DOHC unit with intelligent variable intake valve timing (VVT-i), producing a maximum 150bhp (112kW) at 5,700rpm. Maximum torque of 206Nm is delivered between 4,400 and 4,800rpm. The permanent magnet, synchronous electric motor develops 105kW, with 270Nm of torque available from zero rpm.

In combination the system has a power output of 194bhp (145kW), giving a nought to 62mph acceleration time of 8.4 seconds. Official combined cycle fuel consumption* for the front-wheel drive model is from 53.3mpg with low, tax-efficient emissions* from 122g/km. The respective performance figures for the AWD models are 50.4mpg and 127g/km.

The engine makes use of advanced technologies to optimise its integration in the hybrid powertrain, improving performance while keeping fuel consumption and emissions to a minimum.

Its Atkinson cycle timing features an expansion stroke that is longer than the compression stroke, which permits more efficient conversion of combustion energy. VVT-i constantly varies the intake valve timing at all engine speeds to secure better performance with lower fuel

consumption and emissions. A roller rocker arm system substantially reduces friction between the camshaft and its contact surface, helping reduce energy losses.

The gas volume in the exhaust gas recirculation system is precisely controlled thanks to an electronically operated valve with a responsive step-motor; a highly efficient cooler allows the system to work even at high engine speeds and under heavy loads.

The inherent quietness of the system has been further improved by adding a balance shaft to reduce engine vibration and booming, and by using resin gears with low mesh noise.

* Fuel consumption and emissions figures are NEDC equivalents of WLTP data.

Hybrid electric system in operation

The system draws power from both the petrol engine and electric motor together, or from electric motor alone, to maximise efficiency and achieve the best balance of driving performance and fuel economy.

The electric motor acts as a high-output generator during deceleration and braking to provide a regenerative braking function, capturing kinetic energy that would usually be lost as heat and storing it as electricity in the hybrid system battery.

The seamless electric continuously variable transmission is controlled using shift-by-wire technology with an electronic shift lever.

The powertrain is engineered to eliminate the need for the petrol engine as much as possible during city/town centre driving, enabling a high proportion of zero-emissions EV running. When the vehicle is operating on electric power alone, a green EV icon lights up in the instrument binnacle.

RAV4 Hybrid provides four on-demand drive modes, allowing the driver to exploit the full potential of the hybrid system. These include an EV (electric vehicle) mode for ultra-quiet running with zero fuel consumption and tailpipe emissions for short distances in slow-moving traffic. This can be engaged when there is sufficient charge available in the hybrid battery and when driving conditions permit (the RAV4 Hybrid is not engineered to be driven in the same way as an all-electric vehicle).

Hybrid All-Wheel Drive

The RAV4 Hybrid AWD is equipped with E-Four electric all-wheel drive. This deploys a 50kW high-voltage, high-speed rear electric motor, providing drive to the rear wheels without the need for a central propshaft.

E-Four operates independently from the front electric motor, smoothly switching the vehicle to all-wheel drive when extra traction, stability and control are needed, for example when driving on slippery surfaces and pulling away from stationary. It makes efficient use of power from the hybrid system to generate drive torque and, as well as providing all-wheel drive in different conditions, it has less impact on fuel economy, being lighter than mechanical systems, with fewer energy losses.

The significant extra traction provided by the AWD system gives RAV4 Hybrid a 1,650kg (braked) towing capacity, one of the highest yet achieved by a hybrid vehicle.

Toyota-first Sequential Shiftmatic and Sport Drive Mode

Toyota has designed the transmission and accelerator pedal mapping to deliver a smooth, natural feel when the vehicle is accelerating, with a close match between vehicle speed and engine revs.

Adding a sequential Shiftmatic gear change function and a selectable Sport drive mode in addition to the Eco and EV modes lets the driver enjoy a more sporting drive with improved manoeuvrability and throttle response that really come into their own when negotiating winding roads.

When the shift lever is moved to the sequential shift position, engine braking force is increased and, because engine rpm is kept higher than when the transmission is in the standard D lever position, throttle response is sharper.

2.0-LITRE PETROL POWERTRAIN

- 2.0-litre Valvematic petrol engine with improved fuel economy
- Multidrive S automatic and all-wheel drive

2.0-litre Valvematic petrol engine

Light and compact, the RAV4's 1,987cc, 16-valve petrol engine has a maximum output of 149bhp (111kW) at 6,200rpm, with 195Nm of torque at 4,000rpm.

It uses Toyota's Valvematic continuously variable intake valve lift mechanism, together with Dual VVT-i — intelligent, variable timing of both intake and exhaust valves. Efficient performance is further supported by a variable length intake manifold and a variable output oil pump. These highly efficient, lightweight, clean emission technologies increase power output while at the same time reducing fuel consumption, emissions and engine noise and vibrations.

The engine is available exclusively with AWD and Toyota's Multidrive S continuously variable transmission (CVT).

The 2.0-litre petrol combined cycle fuel economy* and CO₂ emissions figures* are 42.2mpg and 154g/km.

* Fuel consumption and emissions figures are NEDC equivalents of WLTP data.

Multidrive S

Multidrive S is Toyota's advanced continuously variable transmission (CVT) system. This provides an infinite number of ratios by using a system of two cone-shaped pulleys and a high-strength steel belt. The result is a very smooth, seamless drive.

Because Multidrive S maintains the most efficient engine revs at any given vehicle speed, it delivers low noise at cruising speeds with low CO₂ emissions and high fuel efficiency. At the same time, it can also maintain the ideal ratio to produce peak engine power and gain maximum performance.

For a more engaging drive, using the transmission's Sport button will prompt the system to use a more responsive, power-maximising ratio. There is also a sequential, manual seven-speed mode, with gears selected using the shift lever or paddle controls on the steering wheel. When the shift lever is in the D position, the driver can also use the paddle shifts to temporarily override the automatic mode.

DRIVING DYNAMICS

- More rigid body and revised suspension and steering
- Improved NVH performance, with a focus on improving the rear cabin environment

Toyota has taken numerous measures to improve ride comfort and increase driver involvement, without sacrificing vehicle stability or control.

Body rigidity has been increased, with more spot welds in key locations, patches added to the rear suspension member and floor cross-member and a larger diameter rear body fastening for the suspension member. The result of this greater stiffness is not just increased stability, but also, with improved harshness damping, a better ride quality.

RAV4 uses the proven Macpherson strut front and lightweight double wishbone/trailing arm rear suspension systems of its predecessor, but with revisions to the shock absorbers and springs.

The shock absorbers have been modified to gain more ride comfort, with damping force adapting better to different vehicle speeds and road conditions. The coil springs have also been adjusted to improve shock absorber efficiency and reduce the degree of body movement.

The electric power steering rack has been made more rigid, promoting better steering feel. The steering mapping has also been tuned for improved feedback and feel.

Improved NVH for a Quieter Cabin

RAV4's NVH levels have been comprehensively improved, with a particular focus on comfort and ease of conversation for rear seat passengers.

The details include an increase in surface area of the underfloor silencer of around 55 per cent; a reshaped rear finish plate; and strategic use of sound-absorbing material around the rear deck to reduce road, tyre and exhaust noise.

There is better sound insulation in the front and rear doors and the instrument panel sealant and structure have been modified to help prevent the transmission of engine noise into the cabin.

SAFETY

- Toyota Safety Sense standard on all RAV4 models bar entry-level Active where it is available as an option
- Features include Pre-Collision System with pedestrian detection, Adaptive Cruise Control, Lane Departure Alert, Road Sign Assist and Automatic High Beam

Toyota Safety Sense is standard on all RAV4 models, providing an integrated package of active safety and driver assistance features that can help prevent an accident happening, or help reduce the consequences should an impact be unavoidable.

Pre-Collision System

The Pre-Collision System uses a front-mounted radar to detect vehicles and obstacles on the road ahead, operating at speeds from 6mph and reducing the risk of a collision. The system used in the new RAV4 includes a pedestrian detection function.

When it determines an impact risk, it triggers visual and audible warnings to prompt the driver to apply the brakes. At the same time, it primes the car's braking system to deliver extra stopping force when the driver presses the brake pedal. If the driver fails to react in time, the system automatically applies the brakes, reducing speed by about 19mph, or potentially bringing the car to a stop, to prevent a collision or mitigate the force of impact.

Adaptive Cruise Control

Adaptive Cruise Control helps the driver to keep a safe distance from the vehicle in front. Using the same radar as the Pre-Collision System and a front camera, it detects vehicles on the road ahead and monitors their speed, adjusting the speed of the RAV4 (within a set range) to ensure a suitable gap is maintained. Once the way ahead is clear, it will accelerate the car smoothly back to its pre-set cruising speed.

Lane Departure Alert

The Lane Departure Alert system monitors lane markings on the road and helps prevent accidents and head-on collisions caused by a vehicle leaving its lane. If the vehicle starts to deviate from its lane without the turn indicators being used, the system alerts the driver with visual and audible warnings. The system incorporates a Vehicle Sway Warning function that detects the kind of erratic vehicle swaying that can happen if the driver has become tired or their attention has wandered. In such instances the driver is encouraged to take a break from

the wheel with a visual alert – a cup of coffee on the multi-information display – and a warning sound.

Road Sign Assist

Road Sign Assist helps ensure drivers are kept informed, even if they have driven past a road sign without noticing. It recognises signage such as speed limits and "no overtaking" warnings, and displays the information on the multi-information screen in the instrument binnacle.

Automatic High Beam

The Automatic High Beam helps ensure excellent forward visibility when driving at night. It detects both the headlights of oncoming vehicles, and the tail lights of vehicles ahead, automatically switching between high and low beams to avoid dazzling other drivers. As high beam is used more frequently, pedestrians and obstacles are easier and quicker to spot.

Thanks to the reduced risk of being involved in a traffic accident, models equipped with Toyota Safety Sense can benefit from lower insurance group classifications and costs.

Trailer Sway Control

RAV4's Vehicle Stability Control includes a Trailer Sway Control function. If a trailer begins to sway out of line, this will automatically integrate braking and engine torque control to bring it back under control. It combines a deceleration force of between 0.1 and 0.2G with selective braking of individual wheels to counteract a sway-induced yaw movement of the trailer. When the system is operating, the vehicle's stop lamps are illuminated to warn following drivers.

INNOVATION AND ADVANCED TECHNOLOGY

- 4.2-inch TFT multi-information display with steering wheel controls
- Toyota Touch 2 and Touch 2 with Go multimedia and navigation systems, with seveninch touchscreen control

4.2-inch Multi-information Display

The RAV4's instrument binnacle incorporates a 4.2-inch colour TFT multi-information display. It can show a wide range of functions and data, controlled using switches on the steering wheel. It presents Toyota Safety Sense system alerts and can be co-ordinated with the display on the seven-inch touchscreen in the centre console.

Other functions, according to vehicle engine and drivetrain, include customisation of vehicle settings to suit driver preference, trip computer information, hybrid powertrain energy monitor, turn-by-turn navigation and real-time AWD status and steering lock indication.

Toyota Touch 2 Multimedia Systems with Seven-inch Full-colour Touchscreen

Three Toyota Touch multimedia packages are available on RAV4. The Toyota Touch 2 system is provided as standard on Icon models, with a seven-inch full-colour touchscreen mounted in the centre console. The audio unit includes DAB radio and six speakers. Bluetooth is provided for hands-free phone calls and audio streaming and a reversing camera provides real-time on-screen images from the rear of the car.

Icon Tech and Design models are equipped with Toyota Touch 2 with Go, adding a navigation system, together with on-board connectivity via Toyota Online. This gives access to a wide range of useful functions, including the TomTom traffic service IP Traffic, Google Street View, Panoramio, Google Local Search and an apps function.

Taking functionality and connectivity even further, the Toyota Touch 2 with Go provided on Excel models introduces 3D-effect on-screen city models, landmark graphics and a text-to-speech message read-out function. It can also be operated using voice commands and will display SMS texts, emails and calendars, via compatible smartphones.

DESIGN

- Stronger, more dynamic exterior
- Improved interior with higher sensory quality and functionality

Exterior Design

The overall length of the RAV4 has been increased by 35mm to 4,605mm, but the wheelbase remains unchanged at 2,660mm.

Changes to the frontal design amplify Toyota's current design cues, with a slender upper grille that anchors new halogen or LED (according to grade) headlamp units, with integrated LED daytime running lights. The central Toyota emblem is bigger than before – not just for style, but to house the Adaptive Cruise Control system.

The middle grille has been made wider and the lower, trapezoidal grille has been made significantly larger. The extremities of the centre and lower grilles combine to form deep

housings for the fog lamps. There is also a restyled underrun with greater visual impact, reinforcing RAV4's rugged credentials.

To the side there is a wheel arch and rocker panel trim adds a clean emphasis to the vehicle's profile. Icon and Icon Tech models use 17-inch alloy wheels, with Design versions fitted with 10-spoke, 18-inch rims with contrast black and machined-face finish. Ten-spoke, black 18-inch alloys are fitted to the RAV4 Excel models..

Design grade models can be specified with an optional "full body" finish in Tokyo Red or Silver Blade. This includes body-coloured bumpers and wheel arches and black or silver front and rear underruns.

Interior Design

Changes to the RAV4's interior focus on combining better functionality with greater visual harmony and improved sensory quality.

The driver's instrument binnacle, centre console and gear lever surround have been redesigned and the dashboard, door panel and centre armrest trims have been restyled for greater comfort and tactile quality. Throughout the cabin there are more consistent, premium quality finishes.

The instrument binnacle presents two analogue dials and incorporates a 4.2-inch multiinformation display. The centre console accommodates the seven-inch Toyota Touch 2 touchscreen.

Further visual harmonisation has been achieved by introducing ambient lighting and blue back-lighting for the instrumentation.

Cabin storage is more flexible and useful, with a second inner tray added to the console box and a reshaping of the centre console cupholder so that it can take cups with handles. The centre cluster tray has an anti-slip lining and a storage point has been added to the overhead console.

UK MODEL RANGE, SPECIFICATIONS AND PRICING

- UK line-up revised for 2018 with four grades Icon, Icon Tech, Design and Excel
- All grades excepting Icon feature Toyota Touch 2 with Go, Toyota Safety Sense and a power tailgate with height memory
- Panoramic View Monitor available for 2018 RAV4

Grades and equipment

The 2018 RAV4 offers impressive equipment features, with slight revisions to match the new grade structure.

The new entry-level **Icon** grade is equipped with the Toyota Touch 2 multimedia system with seven-inch touchscreen, six-speaker audio, Bluetooth, DAB reception and reversing camera. It also comes with Toyota Safety Sense active safety and driver assistance features, Smart Entry and push-button start, dual-zone automatic air conditioning, dusk-sensing headlights, rain-sensing wipers and a power tailgate with a height memory setting – ideal when the backdoor is regularly opened in a confined area, such as a domestic garage or multi-storey car park. The **Icon Tech** models additionally feature navigation and connectivity functions with the Toyota Touch 2 package.

The new RAV4 **Design** models ride on 18-inch black and machined-face alloys and are fitted with LED headlights with automatic levelling. Black leather and Alcantara upholstery is used for the seats, door trims and arm rests and the front seats are power-slide-adjustable with integrated heating and lumbar support.

At the top of the range, the Excel grade adds high-gloss black 18-inch 10-spoke alloys and matching black door mirror casings and underruns. Black, beige or grey leather upholstery can be specified and the driver's seat gains a memory function. The multimedia system has additional functions, such as voice recognition, text-to-speech and 3D maps. Safety provisions are enhanced with the addition of a Blind Spot Monitor and Rear Cross Traffic Alert.

Option packs and colours

The RAV4 Design can be specified with a Visibility Pack, equipping the vehicle with a Blind Spot Monitor, Rear Cross Traffic Alert and Panoramic View Monitor. For Excel models a new Assist Pack provides a hands-free, "kick-activated" tailgate and panoramic view monitor.

The Panoramic View Monitor is a new feature for RAV4, helping make parking and manoeuvring easier. It combines images from four external cameras to create a near-360-degree, 3D view of the car's surroundings, presented on the central multimedia screen. The driver can choose from two viewing modes: moving view and see-through view, to check for any obstacles or hazards that are out of their sightline.

The 2018 RAV4 is available in a new colour, Tokyo Red. A full body colour treatment is available for Design grade models, in Tokyo Red and Silver Blade, taking in the bumpers and wheel arches. The underruns have a contrasting silver finish.

TOYOTA RAV4 TIMELINE AND UK SALES

MONTH	EVENT
	Original RAV4 concept is presented at the Tokyo Motor Show.
June	First generation RAV4 launched in the UK, with a three-door body
	and 2.0-litre petrol engine.
June	A five-door body style is introduced.
	An electric powered RAV4 is developed; a number are used for
	tourist transport on Jersey.
January	The range is revised and a soft-top three-door version introduced.
August	The second generation RAV4 is launched.
July	A 2.0 D-4D diesel engine is made available.
October	The range is revised and the XT grade structure adopted.
July	Launch of the Granite special edition model.
December	The flagship XT5 grade is launched.
June	Launch of the XT-R feature model.
February	The third generation RAV4 is launched in the UK, with 2.0 VVT-I
	and 2.2 D-4D 140 and 180 engines. The T180 becomes the new
	top-of-the range model. Three-door body style is discontinued.
January	A new XT-R feature grade is launched.
March	Integrated Active Drive is made available as an option on XT ₃
	models.
July	SR180 model is introduced; T180 is deleted from the range.
September	Grade structure revised to XT-R and SR180 trims.
August	2009 RAV4 launched with Toyota Optimal Drive powertrains.
	Introduction of 2WD 2.0 Valvematic.
	June June January August July October July December June February January March July September

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UK sales 2017: 8,519

Cumulative UK sales (since 1994): 198,757

TOYOTA RAV4 TECHNICAL SPECIFICATIONS

2.0-litre Valvematic				
Engine code	3ZR-FAE			
Туре	Four cylinders in-line			
Valve mechanism	16-valve, DOHC, chain drive with Valvematic and Dual VVT-i			
Fuel system	Electronic fuel injection			
Bore x stroke (mm)	80.5 x 97.6			
Displacement (cc)	1,987			
Compression ratio	10.0:1			
Max. power (bhp/kW @ rpm)	149/111 @ 6,200			
Max. torque (Nm/rpm)	195 @ 4,400			
2.5-litre VVT-i HYBRID - ENGINE				
Engine code	2AAR-FXE			
Engine type	4 cylinders in-line			
Valve mechanism	16-valve DOHC, VVT-i			
Displacement (cc)	2,494			
Bore x stroke (mm)	90.0 x 98.0			
Compression ratio	12.5:1			
Total system output – front electric motor and	195/145			
hybrid engine (bhp/kW)				
Max. engine power (bhp/kW @ rpm)	150/112 @ 5,700			
Max. engine torque (Nm @ rpm)	206 @ 4,400 – 4,800			
2.5-litre VVT-i HYBRID – HYBRID SYSTEM				
Electric motor (front)				
Туре	AC permanent magnet, synchronous motor			
Max. power (bhp/kW)	141/105			
Max. torque (Nm)	270			
Electric motor (rear)				
Туре	AC permanent magnet, synchronous motor			
Max. power (bhp/kW)	68/50			
Max. torque (Nm)	139			
Hybrid battery				
Туре	Nickel metal-hydride			
Nominal voltage	244.8			
Number of cells	204			

System voltage	650
Total system output – front electric motor and	195/145
hybrid engine (bhp/kW)	

2.5 HYBRID

E-CVT FWD

2.5 HYBRID

E-CVT AWD

2.0 Vmatic MDS

AWD

PERFORMANCE

Max. speed (n	nph)	115 112 112				
0-62mph (sec)	n (sec) 9.9		8.4	8.4		
FUEL CONSUMPTION,* EMISSIONS* &		2.0 Vmatic MDS	2.5 HYBRID	2.5 HYBRID		
INSURANCE	α	AWD	AWD E-CVT FWD			
Combined	17in wheel	-	50.4	-		
(mpg)	18in wheel	42.2	53.3	50.4		
Urban (mpg)	17in wheel	-	50.4	-		
	18in wheel	35.8	53.3	48.7		
Extra-urban	17in wheel	-	51.4	-		
(mpg)	18in wheel	46.3	53.3	53.3		
Fuel tank capa	acity (I)	60	56	6		
CO ₂ (g/km,	17in wheel	-	122	-		
combined)	18in wheel	154	-	127		
Insurance gro	ups	22E/23E	28E/29A			
SUSPENSION	ı					
Front			MacPherson strut			
Rear			Double wishbone			
BRAKES						
Front (diamete	er x	Ven	tilated discs 296 x 28			
thickness, mm)					
Rear (diamete	r x thickness,	S	olid discs 281 x 12			
mm)						
Additional feat	ures	ABS, Electronic Brakeforc	e Distribution, Brake As	sist, Downhill Assist		
		Control (A/T models onl	y). Hill-start Assist Cont	rol, VSC, Traction		
		Control				
STEERING						
Туре		Rack and pinion, Electric Power Steering				
Ratio		14.5:1				
Turns lock to I	ock		2.83			

Min. Turning circle –	5.3/5.7 – 17in wheel				
tyre/body (m)	5.6/6.0 – 18in wheel				
TYRES AND WHEELS					
Wheel size	17 x 7J alloy 18 x 7.5J alloy				
Tyre size	225/65R17	235/55	R18		
WEIGHTS	2.0 Vmatic AWD MDS	2.5 HYBRID	2.5 HYBRID		
		E-CVT FWD	E-CVT AWD		
Kerb weight (min/max kg)	1,605 – 1,615	1,710	1,775 – 1,810		
Towing capacity - unbraked	750	750	750		
(kg)					
Towing capacity - braked	1,500	800	1,650		
(kg					
Gross Vehicle Weight (kg)	2,110	2,205	2,205		
TRANSMISSION	2.0 Vmatic AWD MDS	2.5 HYBRID	2.5 HYBRID		
		E-CVT FWD	E-CVT AWD		
GEAR RATIOS					
Reverse	1.751	-	-		
Final gear 1 st – 4 th	2.277	-	-		
ratio 5 th , 6 th Differential	5.791	3.750	3.542		
DIMENSIONS -		0.7 00	0.012		
EXTERIOR					
Overall length (mm)		4,605			
Overall width (mm)		1,845			
Overall height (mm)		1,675			
Wheelbase (mm)		2,660			
Front track (mm)	1	,570 – 17in wheel			
	1	,560 – 18in wheel			
Rear track (mm)	1	,570 – 17in wheel			
	1	,560 – 18in wheel			
Front overhang (mm)	930				
Rear overhang (mm)	1,015				
Coefficient of drag (Cd)	0.34 - 0.36				
DIMENSIONS - INTERIOR					
Interior length (mm)		1,935			
Interior width (mm)	1,505				
	.,				

Interior height (mm)	1,220
DIMENSIONS – LUGGAGE	
COMPARTMENT	
Capacity – seats in place (I)	547
	501 - Hybrid
Capacity – seats folded, up	1,735
to roof (I)	1,633 - Hybrid
Load area length (mm)	1,025
Load area width (mm)	1,335
Load area height (mm)	945

^{*} Fuel consumption and emissions figures are NEDC equivalents of WLTP data.

TOYOTA RAV4 EQUIPMENT SPECIFICATIONS

SAFETY	ICON	ICON TECH	DESIGN	EXCEL
Driver and passenger front airbags	✓	✓	√	√
Driver and passenger front side airbags	✓	✓	✓	✓
Curtain airbags	✓	✓	✓	✓
Driver's knee airbag	✓	✓	✓	✓
Front passenger airbag cut-off switch	✓	✓	√	√
Front seatbelts with Electronic Load	✓	✓	✓	✓
Retractors, pretensioners and load				
limiters				
Rear seatbelts with Electronic Load	✓	✓	✓	✓
Retractors				
Front seatbelt warning (light and	✓	✓	✓	✓
buzzer)				
Whiplash Injury Lessening (WIL) front	✓	✓	✓	✓
seats				
Isofix child seat fixings (rear, x2)	✓	✓	✓	✓
ABS	✓	✓	✓	✓
Electronic Brakeforce Distribution	✓	√	✓	✓
(EBD)				
Brake Assist (BA)	✓	✓	✓	✓
Traction Control (TRC)	✓	✓	✓	✓

Vehicle Stability Control (VSC)	✓	✓	✓	✓
Hill-start Assist Control (HAC)	✓	✓	✓	√
Downhill Assist Control (DAC,	✓	✓	✓	√
Multidrive S models only)				
Toyota Safety Sense: Pre-Collision	✓	✓	✓	✓
System, Adaptive Cruise Control, Lane				
Keep Assist, Automatic High Beam,				
Road Sign Assist				
Tyre Pressure Warning System	✓	✓	✓	✓
Blind Spot Monitor	×	×	*	√
Rear Cross Traffic Alert	×	×	*	✓
COMFORT AND CONVENIENCE	ICON	ICON	DESIGN	EXCEL
		TECH		
Electric power steering	✓	✓	✓	✓
Tilt and telescopic adjustable steering	✓	✓	✓	✓
wheel				
Smart entry and push-button start	✓	√	✓	~
Dusk-sensing headlights	√	✓	√	✓
Rain-sensing windscreen wipers	✓	✓	✓	✓
Power windows – front and rear	✓	✓	√	✓
Auto-dimming rear view mirror	✓	✓	✓	✓
Rear-view camera	✓	✓	✓	√
Automatic headlight levelling	×	*	√	√
Front and rear parking sensors	✓	✓	√	√
Illuminated entry system	✓	✓	√	√
Remote release controls in boot and on	✓	✓	√	√
key fob				
12V power sockets, front cabin and	√	✓	√	√
boot				
AUDIO, INFORMATION &	ICON	ICON	DESIGN	EXCEL
ENTERTAINMENT		TECH		
Toyota Touch 2: 7in touchscreen, six-	√	*	*	*
speaker audio system with DAB tuner,				
Bluetooth, rear-view camera, Aux-in				
and USB port.				

Γ <u></u>	1			
Toyota Touch 2 with Go: 7in	*	√	✓	*
touchscreen, six-speaker audio system				
with DAB tuner, satellite navigation, on-				
line connectivity, advanced Bluetooth,				
rear-view camera, Aux-in and USB port,				
3 years' free map updates.				
Toyota Touch 2 with Go: 7in	×	*	×	✓
touchscreen, six-speaker audio system				
with RDS tuner and CD player, satellite				
navigation, text-to-speech function,				
SMS text and email display, on-line				
connectivity with access to online				
services, advanced Bluetooth, rear-				
view camera, Aux-in and USB port, 3				
years' free map updates.				
Audio, telephone and multimedia	✓	√	✓	√
switches on steering wheel				
4.2in colour TFT multi-information	✓	√	✓	✓
display				
VENTILATION	ICON	ICON	DESIGN	EXCEL
		TECH		
Dual zone climate control	√	√	√	√
SECURITY	ICON	ICON TECH	DESIGN	EXCEL
Remote central locking with double	√	√	√	✓
locks				
Remote perimeter alarm and	√	√	√	✓
microwave interior protection				
Speed-detecting automatic door locks	✓	✓	√	✓
STORAGE	ICON	ICON	DESIGN	EXCEL
		TECH		
Locking glovebox	√	√	✓	√
Front console box	√	√	√	√
Front armrest with two cupholders	✓	✓	✓	✓
Rear armrest with two cupholders	✓	✓	√	✓
Driver and front passenger seatback	✓	√	✓	✓
pockets				

Sunglasses holder	✓	✓	✓	✓
Underfloor storage in boot	✓	✓	√	√
Luggage net	✓	√	√	✓
Retractable tonneau cover	✓	√	√	✓
SEATING, UPHOLSTERY & TRIM	ICON	ICON TECH	DESIGN	EXCEL
Heated front seats	×	*	✓	√
Reclining rear seats	✓	√	✓	✓
Manual driver's sat height adjustment	✓	✓	*	×
and lumbar support				
Power slide and height-adjustable	×	*	✓	✓
driver's seat and lumbar support				
Driver's seat memory setting	×	*	✓	✓
Leather and Alcantara upholstery	×	*	✓	×
Leather upholstery	×	*	*	√
Leather steering wheel trim	✓	✓	✓	√
Leather gear shift and parking brake	✓	√	√	✓
trim				
Alcantara door trim	×	*	✓	×
Grey headlining	✓	√	*	×
Black headlining	×	*	✓	✓
EXTERIOR AND BODYWORK	ICON	ICON TECH	DESIGN	EXCEL
Darkened rear privacy glass	✓	✓	✓	√
Colour keyed door mirrors	✓	✓	✓	×
Black door mirror housings	×	*	*	✓
Silver underruns	✓	√	✓	×
Black underruns	×	*	*	✓
17in alloy wheels	✓	√	*	×
18in alloy wheels	×	*	√	√
Roof rails	×	*	*	Opt
Shark fin antenna	✓	√	√	✓
Power tailgate with height memory	✓	√	√	✓
LED daytime running lights	✓	√	√	✓
LED headlamps	×	*	√	✓
LED rear lights	√	✓	✓	√

Front fog lamps	✓	✓	✓	✓
Follow-me-home headlights	✓	√	√	✓
Power-adjustable heated, retractable	✓	✓	√	√
door mirrors				
Power tailgate with height memory	✓	✓	✓	✓
Temporary spare wheel	✓	✓	✓	✓
Metallic paint	Opt	Opt	Opt	Opt
"Full body" paint finish	×	*	Opt	*
OPTION PACKS	ICON	ICON TECH	DESIGN	EXCEL
Style Pack: side steps, rear and side	Opt	Opt	Opt	Opt
chrome trim, roof rails				
Protection Pack: mud flaps, boot liner,	Opt	Opt	Opt	Opt
aluminium scuff plates, bumper				
protection plate				
Assist Pack: Panoramic View Monitor,	×	*	*	Opt
"kick-activated" tailgate				
Visibility Pack: Blind Spot Monitor, Rear	×	*	Opt	×
Cross Traffic Alert, Panoramic View				
Monitor				

^{*} Option included in Premium Pack

Ref: 18511M