
TOYOTA
25-MRY-012
CAMRY


CAMRY

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Abridged

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- **New 2.5 litre petrol engine and uprated 3.5 litre V6 for improved performance yet 24% and 8% reductions in fuel consumption**
- **New Electric Power Steering (EPS) and suspension upgrades for enhanced steering feel, greater agility and improved handling stability**
- **Premium features including three-zone air conditioning with 'nanoe'[1] air cleaning technology and JBL GreenEdge 10-Speaker sound system**
- **Rear seat luxury with heated, reclining seats, independent air conditioning, audio controls and power operated sunshade**
- **Comprehensive active and passive safety features including segment-first rear seat side airbags**

First launched in 1982 and now entering its 7th generation, the multiple award-winning Camry is the flagship of Toyota's sedan model range. It is the volume sales leader of the global mainstream D/E segment and has now sold over 15,000,000 units worldwide, making it the company's second best-selling model after the Corolla.

The Camry has achieved global renown in the mid-sized sedan market for its class-leading levels of Quality, Durability and Reliability (QDR), for its performance, and, most notably, for its excellent ride comfort and cabin quietness.

Whilst further enhancing these key attributes, the all new Toyota Camry combines bold, elegant exterior design with interior refinement, advanced equipment and an engaging driving experience to bring emotional appeal to the Camry model range with a new-found sense of prestige.

Despite no increase in wheelbase length, the all-new interior has been significantly enlarged. Rear seat knee room has increased by 46 mm, rear middle seat legroom by 50 mm, and the couple distance between front and rear seat hip points by 15 mm. Thinning of trim panels throughout the interior has maximised available cabin space, and rear passenger headroom has increased by 35 mm.

A new, prestigious instrument panel design reinforces the width of the new cabin. The driving position has been extensively revised to combine optimum ergonomics with improved switchgear operability and visibility. And the sensory quality of the materials and finishes throughout the cabin has been upgraded to convey the sense of craftsmanship and luxury appropriate to a prestige sedan.

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Comprehensive new NVH measures and acoustic fine-tuning award the new Camry class-leading cabin quietness. Premium comfort and convenience features include a Smart Entry and Start system and enhanced interior lighting, three-zone air conditioning with 'nanoe' air cleaning technology and a JBL GreenEdge 10-speaker premium sound system.

Rear seat luxury is assured through independently heated, reclining seats, independent air conditioning, separate audio controls and a power operated sunshade.

The new Camry has been engineered to not only better the flat ride comfort for which it is already renowned, but also offer customers significantly improved handling stability, body control, agility and steering response.

A new 2.5 litre petrol engine and an uprated 3.5 litre V6 are now both mated to 6-speed automatic transmissions, combining improvements in performance with respective reductions in fuel consumption of 24% and 8%. A new, computer-controlled, vehicle speed-sensitive Electric Power Steering (EPS) system combines accuracy and precise control at all vehicle speeds with improved fuel economy.

EPS gives a better initial turn-in response, greater agility and enhanced steering feel.

Numerous aerodynamic measures not only reduce cabin noise at high speed, but also increase downforce to improve straight line stability and ride composure. The shock absorber characteristics of the proven, front and rear

independent MacPherson strut suspension systems have been adjusted to compensate for the new bodyshell's increased downforce with no loss of ride comfort.

The new Toyota Camry is equipped with the technically advanced range of active and passive safety features befitting a prestige sedan. It may be fitted with up to nine airbags, including segment-first rear seat side airbags. ABS, EBD, BA, TRC and VSC active safety systems are fitted as standard.

Other safety features include Whiplash Injury Lessening (WIL) front seats, an Adaptive Front Lighting System (AFS), clearance sonar and a back guide monitor.

Reflecting their values and achievements, the new Camry will appeal to young, well educated businessmen, both single and with families, who value the comfort, quality, design and luxury inherent in the 7th generation of Toyota's mid-sized premium sedan.

The Most Popular Mid-Size Sedan

- **All-new 7th generation of Camry since its launch in 1982**
- **Worldwide Volume leader of the D/E segment, with sales now topping 15,000,000 million units**
- **'New ERA Sedan' concept combines Emotional appeal with RAtional fundamentals of legendary QDR, comfort and quietness**

Fulfilling all the comfort, space and performance requirements of D/E segment customers since its debut in 1982, the multiple award-winning Camry is the flagship of Toyota's sedan model range.

Now entering its 7th generation, the Camry has achieved global renown in the mid-sized sedan market for its class-leading levels of Quality, Durability and Reliability (QDR), for its performance, and, most notably, for its excellent ride comfort and cabin quietness.

A core model for Toyota globally, the Camry is the volume sales leader of the mainstream D/E segment and has now sold over 15,000,000 units worldwide in 100 countries, making it the company's second best-selling model ever after the Corolla. It is currently manufactured in nine factories across the globe; in Russia, China, Japan, Australia, Vietnam, Thailand, Taiwan, and two plants in the United States.

Broadening its appeal to an already vast and diverse global customer base, the new Camry has been conceived under the 'New ERA Sedan' concept. The name not only signifies a vehicle to usher in a new era, but also stands for Emotional and Rational, the two keywords at the core of the new Toyota sedan's design.

The new Camry's bold, elegant design combines with interior refinement, advanced equipment and an engaging driving experience to bring emotional appeal to the model range with a powerful sense of luxury and prestige. Yet its fundamental appeal continues to be reflected in rational aspects such as QDR, quietness and ride comfort.

Reflecting their values and achievements, the new Camry will appeal to young, well educated businessmen, both single and with families, who value the comfort, quality, design and luxury inherent in the 7th generation of Toyota's mid-sized premium sedan.


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High-Tech and Dynamic Design

- **Unique design theme combines rational, high-tech and dynamic elements for refinement, luxury and prestige**
- **All-new interior design focusing on high technology, comfort and craftsmanship**
- **Increase in real and perceived interior spaciousness despite length increase of only 10 mm**
- **New front seats to offer better driving position offers optimum ergonomics, switchgear operability and visibility**
- **High quality trim and texture, visual and tactile quality throughout**

The new Camry has been created under a unique design theme that involves the seamless interplay of rational, high-tech and dynamic design elements.

The rational is represented by cabin comfort, user-friendliness, ergonomic excellence and packaging which, despite significant increases in key cabin dimensions, leaves the new Camry just 10 mm longer and 5 mm wider than its predecessor.

High technology is reflected both in every aspect of the new Camry's sophisticated engineering and advanced standard equipment, and in comprehensive aerodynamic detailing which contributes to high-speed stability, improved fuel efficiency and class-leading cabin quietness.

And dynamism is expressed not only through the engaging driving experience, but also through a powerful, single-mass exterior design enlivened by subtle detailed touches which enhance the sheer presence of the new Toyota.

Exterior Design

In combination with new, unconventional modelling processes involving new finishing methods and a focus on surface quality, the unique design approach has created a bold, simple-yet-elegant form which brings a new-found sense of refinement, luxury and prestige to the Camry model range.

To the front, the new Camry's broad, purposeful stance is reinforced by a new, bolder, five-bar grille design positioned between thin, elongated headlamps. The grille features thicker top and side sections to increase the overall sense of width, and accents on the horizontal bars create a sense of added luxury brought to life by attention to detail.

Its lines defined by the edges of the front grille, the central bonnet area has been raised above the front wings. This not only adds depth to the frontal aspect, increasing the road presence of the new Camry, but also creates a sense of dynamism which is further reinforced by the wave-like sculpting of the upper bumper surface.

The full-width bumper features a wide lower air intake grille held between


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integral foglamps. The bumper incorporates a deep, aerodynamic front spoiler and sharply sculpted, vertical aero corners which smooth the flow of air over the front wheel arches and down the sides of the vehicle, minimising drag.

In profile, the smooth roof profile and raked shoulder line act together to create a forward-leaning wedge shape which creates a strong sense of movement, expressing the new Camry's dynamic potential. This is reinforced by the undulating door cross-section, which flares into a chrome-accented rocker panel to underscore the vehicle's clean, strongly defined appearance.

The cabin shape immediately evokes a sense of space and comfort. The rear of the cabin has been raised, and the roofline angles down further to the rear of the car to ensure adequate headroom for rear seat occupants. The blacked out B pillar highlights the extensive cabin glazing which reflects a significant increase in passenger accommodation.

To the rear of the new Camry, a chrome garnish strip blends into new, wider rear lamp clusters, and the rear reflectors have been relocated towards the extremities of the bumper. In combination with the protruding bumper corner design, these details emphasise the new Toyota's width and stable, muscular stance.

Adding aerodynamic efficiency to the sharply defined trailing edge of the bold, clean design, an integral boot-lip spoiler combines with crisp, vertical aero corners to smooth the flow of air away from the rear of the vehicle.

A new, larger 17" wheel design has been added to the Camry range, and the existing 16" wheels have been redesigned to appear larger in diameter. The new Camry will be available in a choice of 8 exterior colours, of which 5 are new – Attitude Black, True Blue, White Pearl, Dark Steel and Olive- and two -Attitude Black and True Blue- have been exclusively developed for the new Toyota sedan.


New CAMRY

Interior Design

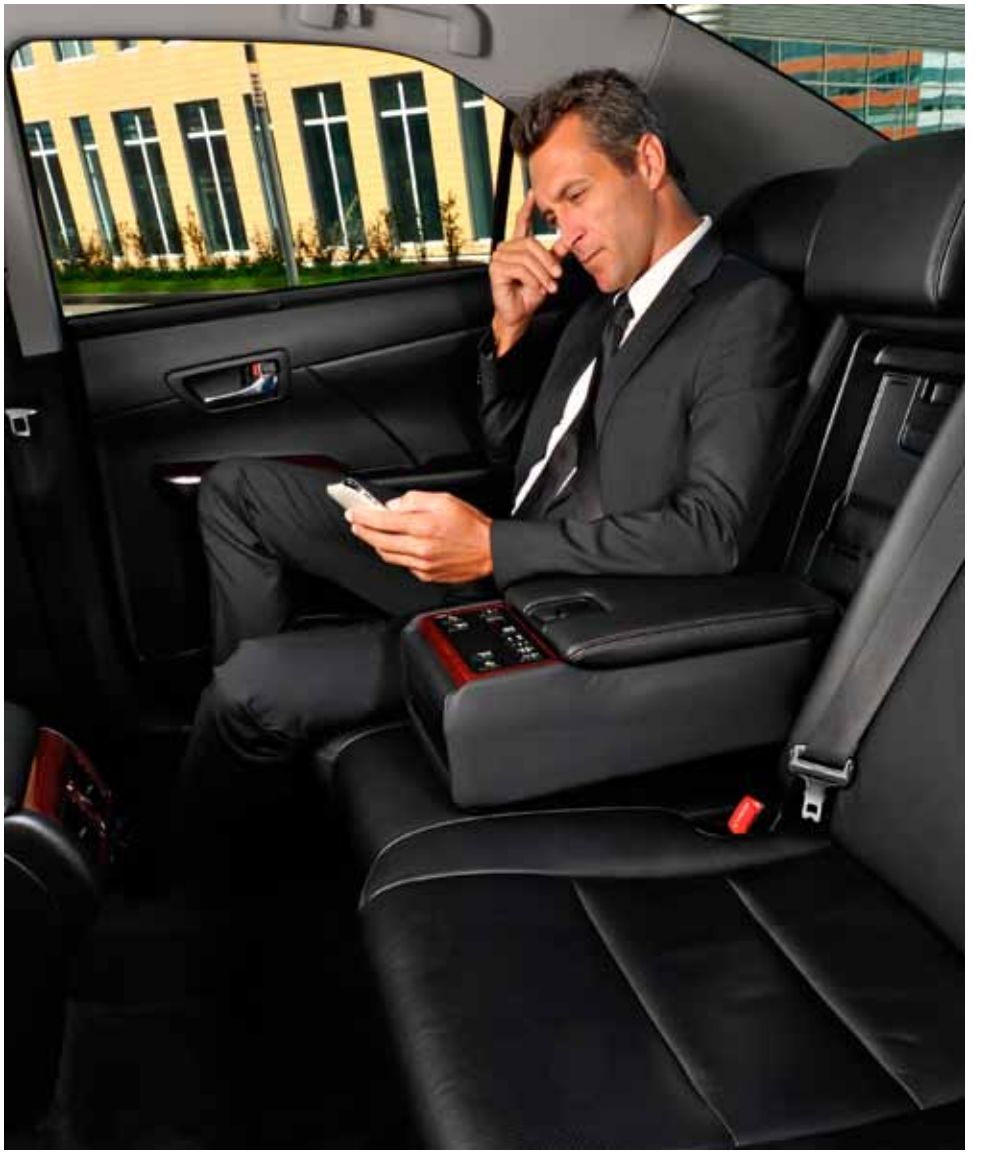
The sophistication and prestige of the new design approach is also reflected in the cabin design of the new Camry. With a focus on high technology and craftsmanship, particular attention has been paid to the sensory quality and ergonomic functionality of the significantly enlarged interior.

Packaging –an increase in both real and perceived interior spaciousness

Though the wheelbase length remains the same and the new Camry is just 5 mm wider than its predecessor, the accelerator pedal and front seat hip point have both been moved forward by 7 mm and the rear seat hip point moved back by 8 mm, increasing the couple distance between front and rear seat hip points by 15 mm.

The shape of the front seatbacks has been modified and made 31 mm thinner, increasing rear seat knee room by 46 mm. The profiles of both the centre console rear fascia and the front edge of the rear seat cushion have also been modified, increasing rear middle seat legroom by 50 mm.

The new front seats themselves have been redesigned to be more comfortable and reduce long-distance fatigue. Seatback pressure distribution has been optimised, seatback height increased by 30 mm and cushion length increased by 20 mm, providing a larger body contact area to avoid localised pressure points which can restrict blood circulation.



In addition, the glove box has been remodelled to increase front passenger legroom, and the rear seat torso angle has also been increased by one degree, providing a more comfortable posture.

The new-found sense of openness throughout the cabin has been further heightened by an increase in both real and apparent spaciousness. A painstaking evaluation of the relationship between the bodyshell and all interior trim components has resulted in both a reduction in the size of, and a minimisation of the space behind, numerous key components, without detriment to either cabin quietness or collision safety requirements.

The A pillar trim has been made thinner and the sun visors moved closer to the driver. This increases the size of the windscreen, offering improved visibility and a greater sense of openness. The B pillar trim has also been thinned, leaving a wider gap to the front seat sides to give rear passengers a feeling of greater spaciousness.

The shape of the headlining over both front and rear seats has been revised. Front occupant head clearance has increased both in front and to the side of the head in the area of the over-door assist grips. And the marked increase in curvature of the rear headlining has increased rear occupant headroom by 35 mm.

Both front and rear door trims have been made significantly slimmer, maximising available width and improving door pocket storage capacity. The overhead console now features a larger storage volume to accommodate a wider range of sunglasses designs. And a storage space has been added to the armrest in vehicles fitted with a rear seat control panel.

Driving Position –optimum ergonomics, switchgear operability and visibility

A new, prestigious, T-shaped horizontal instrument panel design reinforces the width of the new cabin whilst placing all instrumentation and switchgear within easy reach of the driver. A large instrument binnacle hood reduces reflection to the driver's Optitron instrument dials, and the centre console projects into the cabin to bring the audio and air-conditioning controls within easy reach of both front seat occupants.

The driving position has been designed to combine optimum ergonomics with improved switchgear operability and visibility. A shallow steering column angle brings the wheel close to the driver for a more comfortable grip, while the column axis brings the wheel inboard, drawing the driver's field of vision towards the centre of the vehicle.

In addition, the large tilt range on the rake and reach adjustable steering wheel combines with a generous seat height adjustment range to guarantee a comfortable driving position for the widest possible cross-section of customers.

All driver-oriented switchgear has been designed for optimum visibility and ease of use. The door mirror switches are located with the window switches on the driver's door panel for ease of access. Steering

column-mounted light and wiper switches have been positioned for clear visibility through the wheel, and the wheel-mounted audio switches have been designed in a cruciform shape to offer simple, hands-on control of a wide range of system functions.

Trim and textures –visual and tactile high quality throughout

The visual and tactile quality of the materials and finishes throughout the cabin has been tailored to convey the sense of craftsmanship and luxury appropriate to a prestige sedan.

Real stitching in brown has been applied to the black, soft-touch upper dashboard finish to create a softly textured impression. The curved line of the wood grain dashboard accent merges into the silver side-bar of the centre console, adding a high-quality, three-dimensional appearance to the changing surface textures. And chrome accenting has been extensively applied to details such as the audio and air-conditioning knobs, air vents and steering wheel to enhance the sense of on-board luxury.

The all-new Camry interior is available in a choice of two colour schemes – Black and Shell, both of which express the universally-recognised prestige expected of a luxury sedan. The newly developed bright Shell colour scheme reinforces the impression of spaciousness given by the new cabin design, particularly when used as a counterpoint to the new Attitude Black exterior colour.

Both interior colour schemes are available with a choice of complimentary, Shell or Black, perforated leather or textured fabric upholstery finishes.

Comfort, Refinement and Advanced Features

- **Comprehensive NVH measures and acoustic fine tuning for class-leading cabin quietness**
- **Premium comfort and convenience features including Smart Entry and Push-Start system and enhanced interior lighting**
- **Rear seat luxury with heated, reclining seats, independent air conditioning, audio controls and power operated sunshade**
- **Three-zone air conditioning with 'nanoe'[1] air cleaning technology**
- **A unique range of multimedia equipment choices as well as a new, power-saving JBL 10-speaker premium sound system**

Balanced Quietness

For the new Camry, Toyota engineers have adopted a new approach to Noise, Vibration and Harshness (NVH) control, fine-tuning cabin noise levels to once again give the vehicle the class-leading quietness expected of a prestige sedan.

The road and wind noise generated when driving at high speed can make it difficult to hold a conversation without speaking loudly. However, even if sound insulation is enhanced, outside noise cannot be entirely eliminated.

So Toyota engineers have focused on creating an optimum sound 'balance' –the balance between welcome sounds, such as pleasant engine noise, and unwelcome sounds, such as those of mechanical friction. Moreover, they have concentrated on suppressing sounds that stand out, particularly noises near the frequency of human speech, making it easier for occupants to converse.

Significant quantities of new sound insulation material have been located throughout the vehicle, whilst the efficiency of existing materials has been further improved.

Key to the suppression of wind noise, the new Camry features an acoustic glass windscreen for the first time. The screen features a noise prevention film interlaid between two layers of glass, reducing high frequency wind noise. Ribs have been added to the cowl louver to smooth airflow and suppress wind noise generation. In addition, foam has been optimally applied to the roof, pillars and door openings to further reduce the transmission of wind noise into the cabin.

The partition between the engine and passenger compartments now features a sandwiched sheet steel dash panel comprising three sound and vibration absorbing layers. The adoption of a dash cross-member and dash centre brace, and the optimisation of floor panel damping coat thickness serve to tune the dash and floor panels, further suppressing resonance vibration and noise penetration.

[1] "nanoe" and "nanoe" logo mark are trademarks of Panasonic Electric Works Co. Ltd. (http://panasonic-electric-works.net/cc_topics/nano/)

Sound absorbing materials have been fortified around the rear wheel arches and luggage compartment to reduce road and tyre noise. Seals have been strengthened in the door rocker area, and around the entire circumference of the door trims, to improve cabin quietness. And even the breathability of the floor carpet has been adjusted to not only absorb sound but also eliminate it.

Premium Car Comfort and Convenience

The sophistication and prestige inherent in the sensory quality and ergonomic functionality of the new Camry's enlarged interior has been further enhanced by various comfort and convenience features.

Convenience

The convenience of Camry ownership is immediately apparent on a customer's first approach to the new Toyota, through a Smart Entry and Push-Start system which allows the driver to unlock the doors and start the engine simply by having the key in their pocket.

An auto-away and auto-return function has been added to vehicles with power operate steering column adjustment, making driver's seat entry and exit easier.

Interior illumination has further been enhanced. New, front and rear footwell lamps both aid entry and egress after dark, and remain gently illuminated when driving to create a relaxed, luxurious cabin atmosphere.

Night-time cabin visibility and sensory quality are further improved through the addition of front and rear inside door handle illumination, rear door switch panel lights and, mirroring the gear shift lever illumination, a rear armrest control panel light. Rear seat reading lamps are now also fitted as standard across the model range.

Rear Seat Luxury

The rear cabin of the new Toyota Camry may be equipped with a full range of comfort and convenience enhancing technology more usually associated with premium segment vehicles.

Operable from a centre armrest control panel, the left and right rear seats may be both independently reclined and heated. The control panel also incorporates a switch for temperature adjustment of the independent rear air-conditioning. Further switchgear offers full control of the vehicle's audio system. Rear doors incorporate easy-to-use pull-up sunshades, while a rear window sunshade is power operated by switches both in the front and rear of the cabin.

Three-Zone Air Conditioning with 'nanoe' Air Cleaner

The new Camry may be equipped with a three-zone air conditioning system, providing the independent driver, front passenger and rear seat temperature control appropriate to a prestige vehicle.

The air conditioning system incorporates a new 'nanoe' technology system.

This segment-first air cleaning technology operates automatically when the air conditioning is turned on. It releases 5 to 20 nm nanoe particles -negatively charged ions wrapped in water molecules- into the cabin via the driver's side dashboard air vent.

Nanoe moisture content is approximately 1,000 times that of conventional ions, and the particles have mildly acidic properties. As a result, nanoe particles have a gently moisturising effect on skin and hair, whilst creating a crisp and refreshing interior atmosphere.

Advanced Multimedia Systems

Reflecting today's highly connected society, on-board multimedia systems are in increasing demand. Placing a particularly high value on touch-screen operation, customers require a system which gives centralized control of the widest possible range of vehicle functions, as well as connectivity to external devices such as mobile phones and portable music players.

In response, the new Camry offers customers a unique range of multimedia equipment choices, from the most affordable touch-screen interface to the most sophisticated satellite navigation yet created by Toyota, as well as a new, power-saving JBL premium sound system.

Toyota Touch

Fitted as standard, Toyota Touch is a 6.1 inch, full colour, touch-screen interface which represents a new approach to on-board multimedia systems. In a choice of seven languages (including Russian), it offers a wide range of interactive functions without the added expense of an integral satellite navigation system, making it available to the widest possible range of customers.

It incorporates AM/FM radio with enhanced FM reception through the first use of two tuners and two antennae, a CD/MP3 player, Bluetooth mobile phone connectivity with a music streaming facility, and a USB port for the connection of portable music players, with the facility to display iPod album cover art. In addition, a rear view camera is fitted as standard.

Toyota Touch Pro

Available as an option, Toyota Touch Pro is the most sophisticated satellite navigation system yet offered in our line-up.

The premium quality multimedia system features a high-resolution 7.0 inch touch-screen interface with a 'home' screen, at-a-glance function displaying the most relevant air-conditioning, audio and navigation information. With a choice of 20 menu and guidance languages, the system covers the whole of Europe.

It offers a comprehensive range of advanced features including voice recognition, automatic map zoom at intersections, 3D city model and landmark graphics, an on-line Points Of Interest search facility and a supplementary driver's navigational guidance head-up display.

The system also provides access to SMS messages and emails, and includes a 'text-to-speech' message readout facility.

JBL GreenEdge Premium Sound System

The new Toyota Camry may be equipped, together with the Toyota TouchPro, with a 10-speaker, JBL Matrix Premium Sound System. The system incorporates GreenEdge technology which reduces operational power requirements by up to 80% of those of a conventional on-board audio system.

The new JBL Matrix system allows owners to enjoy 5.1 matrix channel surround sound on selected CDs and DVDs.

JBL's Green-Edge technology focuses on four key design parameters to produce greater output with a minimum of input power. It offers a higher system capability with lifelike dynamics and lower transient distortion. Conventional, linear on-axis response is replaced by active sound equalisation, and the high-efficiency loudspeakers feature custom designed lenses and horns to modify directivity and increase output.

At the heart of the system is a class H JBL GreenEdge 8-channel amplifier, which is 66% smaller and lighter than comparable units. Because audio input is measured in real time, only the necessary electricity is provided to the amplification circuit. This greatly reduces heat loss, and effects a 50% reduction in current consumption.

The amplifier drives 10 highly efficient, JBL GreenEdge speakers, which generate twice the sound output power for the same amount of current. Key to the system's enhanced sound dynamics and resolution are three 6.5 cm speakers, one located centrally within the dashboard, and two on the rear parcel shelf. Equipped with wide-dispersion acoustic lenses, these speakers are positioned to enhance the sense of three-dimensional sound in every seat, significantly expanding the system 'sweet spot' within the cabin.

The sound spectrum is completed by two dashboard-mounted twin cone speakers, two 7" x 10" front door-mounted woofers, and one rear-mounted 7" x 10" woofer. The intensity, presence and deep bass of the sound creates a realistic, movie theatre-like soundscape that seems to extend beyond the cabin.

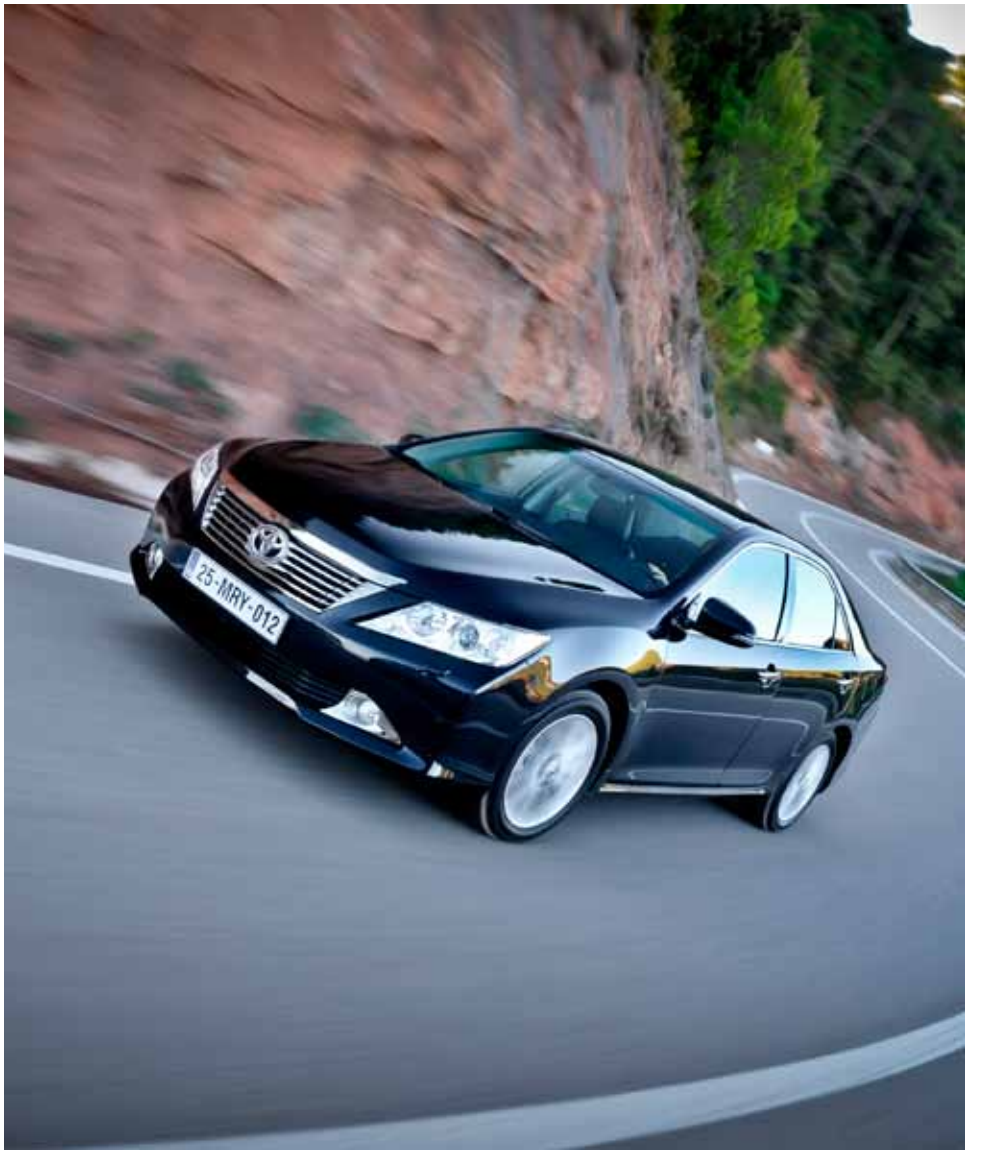
Driving Performance

- **New 2.5 litre petrol engine and uprated 3.5 litre V6 for improved performance yet 24% and 8% reductions in fuel consumption**
- **New 6-speed automatic transmissions with paddle-shift manual override**
- **New Electric Power Steering (EPS) for superior agility and steering feel**
- **Comprehensive aerodynamics maximise downforce to enhance straight line stability and ride composure**
- **Increased suspension mounting rigidity and revised damper settings for improved handling stability with no loss of ride comfort**

The new Toyota Camry has been engineered to combine exceptional flat ride comfort with a more engaging driving experience through superior handling stability, body control, agility and steering response.

A new 2.5 litre petrol engine and an uprated 3.5 litre V6 are now both mated to 6-speed automatic transmissions, combining improvements in performance with respective reductions in fuel consumption of 24% and 8%.

A new, computer-controlled, vehicle speed-sensitive Electric Power Steering (EPS) system combines accuracy and precise control at all vehicle speeds with improved fuel economy. The maximisation of installation



rigidity and the reduction of play throughout the EPS system optimise initial turn-in response, agility and steering feel.

Numerous aerodynamic measures not only reduce cabin noise at high speed, but also maximise downforce to enhance straight line stability and ride composure. In combination with a reduction in vehicle mass and improved tyres with increased pressure, these measures award the new Camry a 10% reduction in rolling resistance over its predecessor at 50 km/h, with perceptible fuel economy benefits.

The shock absorber characteristics of the proven, front and rear independent MacPherson strut suspension systems have been adjusted to compensate for the new bodyshell's increased downforce with no loss of ride comfort. And front suspension mounting rigidity has been increased by some 20%, both improving handling stability and enhancing overall ride comfort.

Engines And Transmissions

The new Toyota Camry is offered with a choice of two petrol engines: a new, 181 DIN hp/133 kW, 2.5 litre 4-cylinder unit, and a more fuel-efficient version of the existing, 277 DIN hp/204 kW, 3.5 litre V6.

Now mated to a 6-speed automatic transmission with sequential paddle-shift override, the new 2.5 litre engine combines a 10% increase in power output and a 5% increase in maximum torque with a remarkable 24% reduction in fuel consumption, awarding it class-leading fuel economy.

Also mated to a modified 6-speed automatic transmission, the high performance 3.5 litre V6 maintains its existing power and torque output, yet fuel consumption has been reduced by some 8%.

New 2.5 Litre 4-cylinder Petrol Engine

The newly developed 4-cylinder, 2,494 cc, 16 valve DOHC petrol engine generates 133 kW/178 DIN hp at 6,000 rpm and a maximum 231 Nm of torque at 4,100 rpm. This constitutes an increase in power and torque of 10 kW and 7 Nm respectively over the outgoing 2.4 litre powertrain, resulting in a 1.5 second improvement in 0-100 km/h acceleration, from 10.5 to 9.0 seconds, and a top speed of 210 km/h.

Despite the increase in engine displacement, power and performance, the new 2.5 litre unit offers a marked improvement in fuel efficiency, lowering average consumption by 2.5 l/100 km to a class-leading 7.8 l/100 km.

Numerous new features introduced to this engine have boosted performance, maximised fuel efficiency and lowered emissions. They include a new, highly efficient intake port; an improved, variable intake manifold Acoustic Control Induction System (ACIS); a Tumble Control Valves (TCV) system; Dual VVT-I for both intake and exhaust camshafts; the adoption of roller rocker arms; low tension piston rings; multi-point oil jets and a variable output oil pump.

The improved Acoustic Control Induction System, ACIS-III, increases engine power output in all ranges from low to high speed. It divides the intake manifold into two sections, with an intake air control valve in the bulkhead opening and closing to vary the effective length of the intake manifold in accordance with the engine speed and throttle valve angle. The chamber is lengthened at low engine speeds for enhanced torque, and shortened at high engine speeds to allow more airflow and consistent high performance.

The TCV system helps produce lower emissions by modifying intake airflow with a set of valves. The valves are closed when the engine is cold, tumbling the air and fuel in the intake path to thoroughly mix the combination and achieve the most complete combustion. When the engine temperature rises, optimum combustion occurs without the need to tumble the intake air. So the valves open to let the air flow smoothly, maximising engine performance.

The adoption of Dual VVT-i (Variable Valve Timing-intelligent) to both intake and exhaust camshafts also significantly improves engine performance. Able to control intake and exhaust camshafts through angles of up to 40 and 35 degrees respectively, Dual VVT-i allows a greater intake/exhaust valve overlap, benefiting both low-end and top-end torque as well as contributing to a reduction in exhaust emissions and better cold-start performance.

The reduction of internal friction has been key to the fuel efficiency of the new 2.5 litre unit. Roller rocker arms have been adopted for the chain-driven valve system, the marked reduction in friction between the cam and sliding components helping enhance fuel efficiency. In addition, a concave camshaft profile increases valve lift to boost output. The system requires

no valve clearance adjustment over the life of the vehicle. The adoption of a higher compression ratio, low tension piston rings, multi-point oil jets and a variable output oil pump have also improved fuel efficiency through the reduction of friction.

Finally, a new engine cover has been designed not only to reduce weight, but also effectively suppress engine noise, maintaining the Camry's long-standing reputation for cabin quietness.

Upgraded 3.5 Litre V6 Petrol Engine

Also benefiting from performance and fuel efficiency enhancing features such as ACIS and Dual VVT-i, the Euro V compliant, 3,456 cc V6 petrol engine generates 204 kW/ 277 DIN hp at 6,200 rpm and a maximum 346 Nm of torque at 4,700 rpm.

Though its power output remains the same, a combination of weight reduction in the new Camry, the improved efficiency of the 6-speed automatic transmission and a higher final drive gearing has improved both performance and fuel efficiency.

The unit's 0-100 km/h acceleration time has improved by 0.2 of a second to 7.1 seconds, and maximum speed is 210 km/h. Conversely, fuel consumption has reduced by 0.9 l/100 km, to 9.3 l/100 km.

New 6-Speed Automatic Transmissions

Both 2.5 and 3.5 litre engines are now mated, as standard, to a new 6-speed automatic transmissions with sequential, paddle-shift override.

The compact, lightweight gearboxes offer a smooth shift, excellent drivability and outstanding quietness. A higher final drive gearing has improved both performance and fuel efficiency.

The automatic gearbox features an Artificial Intelligence (AI-SHIFT) control that automatically changes the gear shifting schedule according to road conditions and driving style. AI-SHIFT promotes a more comfortable yet responsive drive by avoiding unnecessary upshifting when travelling uphill, whilst automatically downshifting to provide optimum engine braking when travelling downhill.

Fuel economy has been perceptibly improved through expanded lock-up control and the adoption of flex-start control: The gearbox transmits engine torque by two methods –indirectly, via a fluid, and directly, with a mechanical connection via a lock-up clutch. Though inherently smooth, the fluid connection is inefficient in the transmission of engine torque. Therefore, the range of lock-up clutch usage has been expanded as much as possible in the new Camry, reducing engine output losses to improve fuel efficiency.

Flex-start control proactively engages the lock-up clutch when starting off, enhancing the efficiency of power transfer and lowering engine speed, again contributing to a reduction in fuel consumption, most notably under urban driving conditions.

The steering wheel-mounted paddle shifters may be used in either Normal (D) or Sport (S) drive modes. Use of the paddles with the gearlever in the

'D' position gives the driver manual override control of the gear box, which will then return to fully automatic mode if the paddles are no longer used for a given period of time.

With the lever in the 'S' position, the selected gear is indicated in the combination meter display and the gearbox will remain in manual override mode indefinitely, offering a more sporting driving experience. The response time to a shift instruction and the shift time itself have been made significantly faster, with elapsed time for both up- and downshifting reduced to almost half that of the current model. In addition, a throttle blipping control has been added to the downshift, which revs the engine for a smoother, more engaging driving experience.

Eco Driving Meter

To further increase the fuel efficiency benefits of the new Camry's improved engine and transmission line-up, a new ECO meter and driving display have been incorporated into the combination meter dials. The ECO indicator illuminates during fuel-efficient, economical driving.

The bars of the instantaneous fuel economy gauge are positioned next to the average fuel economy dial. This encourages the customer to drive more efficiently, by keeping the illuminated bars of the instantaneous fuel economy gauge higher than the needle of the average fuel economy gauge.

When the engine is turned off, the average fuel economy of the completed journey is highlighted on the multi-information display screen. If the driver has made full use of the new Camry's outstanding fuel efficiency, the word 'Excellent' will be displayed as a reward, encouraging further eco-conscious driving.

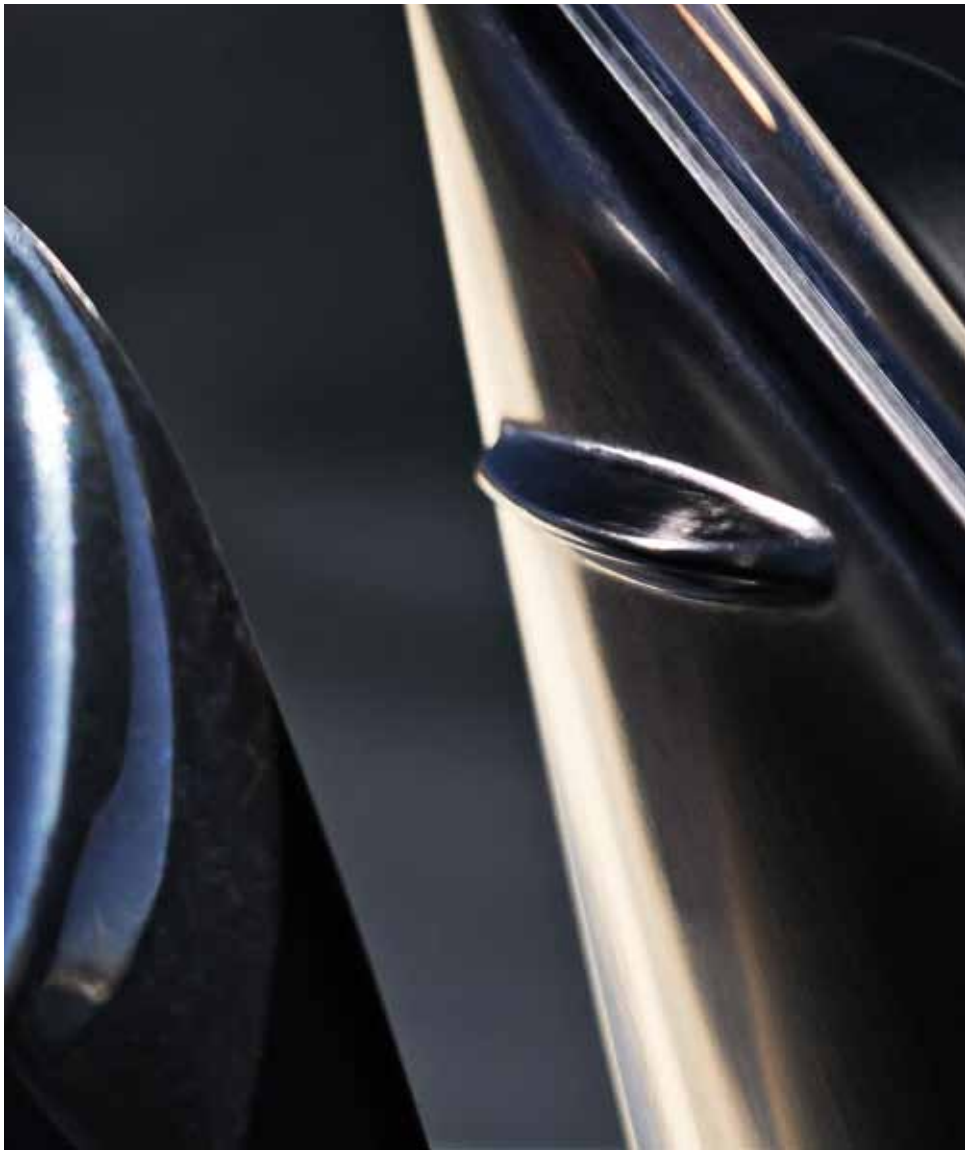
Electric Power Steering (EPS)

The new Camry is equipped with an all new computer-controlled, vehicle speed-sensitive electric system which combines accuracy and precise control at all vehicle speeds with improved fuel economy.

The EPS incorporates three new control logic systems: Hysteresis control for enhanced steering feel and stability; yaw rate feedback control to stabilise vehicle response under excessive steering inputs; and steering feedback control to optimise steering feel according to vehicle speed – providing light feedback at parking speeds and firmer feedback for safe, enjoyable driving at higher speeds.

Particular attention has been paid to column installation rigidity and the reduction of play throughout the EPS system, optimising initial turn-in response, agility and steering feel.

This advanced system uses electric power only when steering assistance is needed. As a result it is quieter and achieves higher fuel efficiency than conventional hydraulic power steering systems. Moreover, because it does not use hydraulic fluid, EPS does not generate waste oil, and is thus a more environmentally friendly system.



Aerodynamics

The new Toyota Camry benefits from numerous aerodynamic measures which not only reduce cabin noise at high speed, but also enhance straight line stability and ride composure.

The vehicle underbody features the extensive use of covers to areas with large cavities. This smoothes the flow of air under the new Camry to reduce turbulence, suppress perceptions of unstable floating and improve ride composure.

A newly designed front and new rear undercover both incorporate fins to channel the air under the vehicle. To the front, the fins enhance initial turn-in response when cornering and, to the rear, improve ride stability. They also serve to accelerate the velocity of airflow beneath the vehicle, creating more downforce to further enhance the new Camry's straight line ride characteristics.

Vertical front and rear aero corners add aerodynamic efficiency to the upper bodyshell. They smooth the flow of air over the front wheel arches and down the sides of the vehicle and away from the rear, combining with an integral boot-lip spoiler to minimise drag.

In addition, aero stabilising fins adopted from F1 technology are positioned on the body inside the door mirror locations. The fins create vortices which cause air to spiral along the cabin sides. These vortices exert pressure on both sides of the bodyshell, stabilising vehicle posture by inhibiting its natural tendency to sway at high speeds.

Safety

- **Comprehensive active and passive safety features befitting a prestige sedan**
- **Adaptive Front Lighting System (AFS) for improved night driving visibility**
- **Clearance sonar and back guide monitor for minor collision prevention and parking assistance**
- **ABS, EBD, BA, TRC and VSC active safety systems fitted as standard**
- **Up to nine SRS airbags, including segment-first rear seat side airbags**
- **Whiplash Injury Lessening (WIL) front seats to reduce whiplash injuries during rear end collisions**

The new Toyota Camry is equipped with the technically advanced range of active and passive safety features befitting a prestige sedan.

Active safety features include an Adaptive Front Lighting System (AFS) which swivels the low beam projector headlamps to illuminate a bend as the driver steers into it, clearance sonar to prevent minor collisions whilst manoeuvring, and a rear camera for parking assistance.

The Camry is equipped, as standard, with the full range of braking, traction control and stability systems on the market today: ABS anti-lock brakes, complete with Electronic Brakeforce Distribution (EBD) and Brake Assist, Traction Control (TRC) and an advanced Vehicle Stability Control system (VSC).

Within a highly rigid bodyshell designed to offer maximum occupant protection, passive safety features incorporate a comprehensive range of 9 airbags, including segment-first rear seat side airbags, and Whiplash Injury Lessening (WIL) front seats which reduce whiplash injuries during rear end collisions.

Active Safety

Adaptive Front Lighting

The new Camry is equipped with an Adaptive Front Lighting System (AFS). Calculating where the vehicle will be in three seconds time according to steering operation and vehicle speed, the system swivels the low beam projector headlamps in response to steering input, helping to illuminate a bend as the driver steers into it.

At low vehicle speeds (between 10 and 30 km/h) the swivel range of the lamps has been increased from 2.7 to 3.7 metres at a range of 10 metres, substantially increasing the illuminated area at road junctions and intersections. At speeds over 30 km/h, long range visibility is enhanced by swivelling the area of illumination from the outside to the inside of the bend.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AFS is also equipped with a dynamic levelling function, which automatically maintains a constant beam height. The combination of these two functions achieves optimum light distribution in all driving conditions.

Clearance Sonar and Back Guide Monitor

The new Camry is equipped with both clearance sonar and a rear parking camera. Designed to prevent minor collisions whilst manoeuvring, the vehicle has a clearance sonar sensor at each corner, and an additional two sensors to the rear. They warn of approaching obstacles using both a graphic on the multi-information display, and audible driver alerts.

The back guide monitor features a video camera mounted in the rear number plate surround that projects a full colour rear view of the surroundings onto the centre console display screen.

Even greater manoeuvring accuracy is promoted by screen-generated

guidelines that indicate the prospective path of the vehicle based on the current steering position, both for serial or parallel parking. In consideration of colour-blindness, the line colour has been changed from green to blue.

Braking and Stability Control Systems

The new Camry's servo assisted braking system features 296 mm ventilated front discs and 281 mm solid rear discs. The braking system incorporates a new, compact and lightweight design of brake actuator, low-expansion brake hoses and a link-type brake pedal with a reduced pedal stroke for enhanced response and feel.

The vehicle is equipped, as standard, with an Anti-lock Braking System (ABS), Electronic Brakeforce Distribution (EBD), Brake Assist (BA), Traction Control (TRC) and Vehicle Stability Control (VSC).

EBD ensures that the most effective brake force is applied to each wheel, according to road conditions. By preventing the wheels from locking, ABS helps to maintain sure-footed stability during cornering and braking.

BA detects sudden or 'panic' braking and adds pressure if the driver fails to apply sufficient force during emergency braking.

TRC monitors and controls the amount of power that is applied to the road through the car's wheels. If the system detects that one or more wheels spins, it instantly determines the best way to restore traction to that wheel, either by decreasing the power being sent to the wheel that is about to spin or, in more extreme cases, momentarily braking the wheel until it regains traction.

VSC is designed to prevent loss of car control when entering a corner too fast or in slippery conditions which might lead to a skid. Via sensors monitoring car body yaw, longitudinal and lateral acceleration, steering angle, wheel speed and brake pressure, the system assesses vehicle stability and the proximity of either an excessive understeer or oversteer slide.

The system restores stability by automatically adjusting engine output and applying smoothly modulated braking to the appropriate wheel individually, helping the driver to restore vehicle stability.

Passive Safety

Impact Absorbing Body and Pedestrian Protection

The new Camry's impact-absorbing bodyshell features the increased use of high-tensile steel for a combination of greater rigidity and decreased weight. The flared design of numerous body panels including the wings and doors allows for a thin and lightweight design with no loss of rigidity.

The body has been designed to efficiently disperse front, side and rear collision energy, helping to reduce cabin deformation. Collision energy from the front bumper reinforcement is absorbed by the apron upper and front side members, and dispersed through the A pillars, door reinforcements and front lower pillars. Collision energy from the wheels and tyres is absorbed by the front lower pillars and rocker reinforcement.

In the case of side impact, collision energy is dispersed to three high-strength cross members in the bodyshell floor, and from the centre pillars through the rocker, rail and roof reinforcements.

The rigidity of the rail reinforcement cross-section has also been strengthened to absorb collision energy.

To the rear, bumper reinforcements and a crash box absorb the collision energy of a rear impact.

Various features have been adopted to help reduce pedestrian injuries in a collision. A longitudinal frame inner bonnet structure incorporates an energy absorbing front edge structure and a crushable cowl louver at its rear edge. And the front wings incorporate an impact absorbing installation bracket structure.

Nine SRS airbags

The new Camry may be equipped with up to nine SRS airbags; driver and front passenger airbags, a driver's knee airbag, front side airbags, full-length side curtain shield airbags and segment-first rear side airbags.

3-point ELR (Emergency Locking Retractor) seatbelts

All front and rear seats feature three-point, ELR (Emergency Locking Retractor) seatbelts. The ELR is designed to lock up the seatbelt when excessive load is applied over a preset value. Driver and front passenger seatbelts further benefit from a pre-tensioner and force limiter function. During a collision, the force limiter fractionally reduces seatbelt tension to lower occupant chest impact forces.

WIL seats

The Camry is fitted with Whiplash Injury Lessening (WIL) front seats to reduce whiplash injuries during rear end collisions. Should a rear impact of sufficient velocity occur, the seat structure allows the occupant's upper body to sink backwards, matching the movement of the lower body to that of the head to reduce the risk of a whiplash injury.


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Specifications

ENGINE		2.5 litre Dual VVT-i	3.5 litre Dual VVT-i
No. of cylinders & arrangements		4 Cylinders, In-line	6 Cylinders, V type
Valve mechanism		16-valve, DOHC chain drive with Dual VVT-i	24-valve, DOHC chain drive with Dual VVT-i
Fuel type		Gasoline	Gasoline
Displacement	cm^3	2,494	3,456
Compression Ratio		10.4:1	10.8:1
Bore x Stroke	mm	90.0 x 98.0	94.0 x 83.0
Max. output	kW (DIN hp)/rpm	133 (181)/6,000	204 (277)/6,200
Max. torque	Nm/rpm	231/4,100	346/4,700
Fuel tank capacity	L	70	70
Emission certification		Euro4	Euro5

PERFORMANCE			2.5 litre Dual VVT-i	3.5 litre Dual VVT-i
Max. Speed	km/h		210	210
Acceleration	0 to 100km/h	s	9.0	7.1
Min. Turning Radius	Tire	m	5.5	5.5
	Body	m	5.9	5.9

FUEL CONSUMPTION		2.5 litre Dual VVT-i	3.5 litre Dual VVT-i
Combined	l/100km	7.8	9.3
Urban	l/100km	11	13.2
Extra urban	l/100km	5.9	7.0

CO_2 EMISSIONS			2.5 litre Dual VVT-i	3.5 litre Dual VVT-i
Combined		g/km	183	215
Urban		g/km	259	306
Extra urban		g/km	140	162

WEIGHT			2.5 litre Dual VVT-i	3.5 litre Dual VVT-i
Curb Weight	Minimum	kg	1,435	1,525
	Maximum	kg	1,465	1,540
Gross Vehicle Weight	Total	kg	2,100	2,100

TRANSMISSION		6-speed Automatic transmission
Gear ratios	1st	3.300
	2nd	1.900
	3rd	1.420
	4th	1.000
	5th	0.713
	6th	0.608
Reverse		4.148
Final gear ratio		3.815

BRAKES			
Brake Type	Front		Ventilated disc
	Rear		Solid Disc
Brake size - diameter	Front	mm	296
	Rear	mm	281
Brake size - thickness	Front	mm	28
	Rear	mm	10

SUSPENSION

Suspension Type	Front	MacPherson strut	
	Rear	Dual link strut	
Stabilizer Bar		Standard	

STEERING

Steering Gear Type		Rack & Pinion	
Steering gear Ratio		15.4	
Lock to lock		3.12	
Power steering type		EPS	

TIRES & WHEELS

Standard	Tyres	215/60R16	215/55R17
	Wheels	16x6.5J	17x7J

LUGGAGE COMPARTMENT

VDA luggage capacity (rear seat standard position)	l	506	

DIMENSIONS

Overall	Length	mm	4,825
	Width	mm	1,825
	Height	mm	1,480
	Wheelbase	mm	2,775
Tread	Front	mm	1,575
	Rear	mm	1,565
Effective Head Room	Front	mm	986.4
	Rear	mm	966.8
Effective Leg Room	Front	mm	1,057
	Rear	mm	989
Shoulder Room	Front	mm	1,473.3
	Rear	mm	1,438.7
Hip Room	Front	mm	1,383.1
	Rear	mm	1,383.1
Interior	Length	mm	2,080
	Width	mm	1,525
	Height	mm	1,210
Overhang	Front	mm	970
	Rear	mm	1,080
Coefficient of Drag (Cd)			0.28

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Software requirements:

PC:

If your configuration is set for this application, a pop-up will appear: “What do you want Windows to do?”.
Select the option: “Start interactive interface”. If this is not the case, go to the USB-drive in Windows Explorer and double click on: start.exe.

For a full use of the application the following minimum configuration is needed:

- Windows XP or later
- 1024 Mb Ram or more is recommended
- USB-Port
- Internet Explorer
- Quicktime

Apple Power Mac:

Go to Finder and double click on the USB and double click on Start.app.

For a full use of the application the following minimum configuration is needed:

- Mac OSX v10.4
- 1024 Mb Ram or more is recommended
- USB-Port
- Safari
- Quicktime

Contents:

- Interactive interface
- Word-, Excel- and Pdf-files
- Images Hires and Lores (.jpg)
- Quicktime movies (.mov & .flv)

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Exterior - Dynamic


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Exterior - Static


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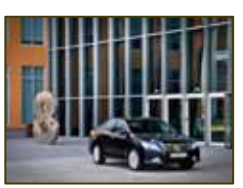
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Interior


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Details


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