

## **TOYOTA AYGO**

### **Building on strong foundations**

Toyota had high expectations for the first-generation Aygo, launched in 2005. Not only was it Toyota's first compact city car, it was also the result of a new joint venture forged with PSA Peugeot Citroën. Aygo was developed specifically for Europe and produced at the new TPCA (Toyota Peugeot Citroën Automobile) factory in Kolin, in the Czech Republic.

Aygo's main objectives were to attract young, urban-based customers. And to bring more emotion and a greater sense of playfulness to the Toyota brand.

With new colours introduced every year, regular special editions, and major updates in 2008 and 2012, Aygo remained fresh throughout its lifecycle.

Aygo lived up to Toyota's expectations, with sales across Europe totalling more than 760,000 and ratings well above average for customer conquest sales and brand loyalty.

### **Aygo – Toyota's take on the city car segment**

- Striking design, inspired by Japanese youth culture
- Exceptional range of new equipment, options and customisation possibilities
- New x-touch multimedia system

Aygo is driven by the determination of Toyota president Akio Toyoda to make ever better cars that are more fun to drive. It builds on the previous model's strengths of engaging design, driving enjoyment and a model line-up that is regularly refreshed and updated, adding a new, more playful dimension. The car's design theme was dubbed J-Playful, marking a link with the strong and outspoken shapes and forms that are central to contemporary Japanese youth culture.

From its defining frontal "X" design to its range of customisation options, all Aygo's styling and engineering decisions have been made with fun in mind.

David Terai, Aygo Chief Engineer, explained: "My main driver was to create a car that people would fall in love with."

“Traditionally, the appeal of A-segment cars has come from their practicality, their compact size and their price tag. But, all too often, they lack desirability. The elements that make you truly want a car, make you grab the brochure again and again while you’re making your purchase decision, are compromised. Design is treated as secondary, and there aren’t many equipment features to choose from.

“There seems to be an implicit agreement among vehicle planners, stylists and engineers that drivers of small cars don’t spend much time behind the wheel anyway, so they won’t mind having to compromise. I can’t believe this is true. I am convinced these drivers, just like any other, want a car they can be proud of, and I took it as my task to create just such a car.”

This commitment explains how Aygo builds on the legacy of the first-generation model, which itself went some way towards rejecting the basic A-segment stereotype. In spite of its compact dimensions, it has a striking appearance. It’s a design that forces people to take sides; it won’t appeal to everyone. David Terai maintained that this was exactly his intention.

“If you aim for an emotional link between customer and design, you have to accept that people’s tastes differ. In a crowded marketplace it is better to have a design that half the people absolutely love, rather than one that nobody objects to. That is why new Aygo wants to stand out.”

And it does. Both the interior and exterior have been conceived so that, as well as being fun to drive, Aygo can be customised in a variety of ways to suit each customer’s individual taste.

More than 10 parts around the vehicle can easily be replaced to change colour or execution, so customers can truly create their own Aygo. Clever construction and a carefully considered installation strategy keep the personalisation process affordable and straightforward, ensuring price and delivery time remain true to what customers expect for an A-segment car.

Life on board has been improved thanks to more cabin space and innovative features designed to fit the lifestyle of the younger customers who are likely to embrace Aygo. The most eye-catching example of this is the x-touch multimedia system. Its seven-inch, full colour touchscreen controls a range of on-board systems, while MirrorLink smartphone connectivity allows the car to be seamlessly integrated into people’s online lives.

Aygo is equipped with an improved version of Toyota's award-winning three-cylinder, 1.0-litre VVT-i petrol engine. One of the lightest engines in its class, it incorporates numerous revisions that enhance performance and help deliver class-leading fuel efficiency and CO<sub>2</sub> emissions.

David Terai was pleased with what was achieved: "I wanted to avoid the traditional compromises of the A-segment, by creating something I could be truly proud of. When I look at the car now, it makes me smile and fall in love, so I feel I have succeeded."

Toyota hopes the smiles don't end there, but that Aygo can bring an irreverent sense of fun to drivers and passengers alike.

## **DESIGN AND CUSTOMISATION**

- J-Playful design theme, inspired by contemporary Japanese youth culture
- Customisation an integral part of Aygo's design
- Compact exterior dimensions, with maximised interior space and luggage capacity
- Affordable customisation options for customers to create their own Aygo, even after years of ownership

### **J-Playful Design**

Aygo's design theme was named J-Playful, inspired by the strong and outspoken shapes and forms associated with Japanese youth culture.

Compact packaging is fundamental to Aygo's appeal to people who live in towns and cities. The car's overall length was increased by only 25mm to 3,455mm, maintaining an urban-friendly compactness. Although front headroom has grown by 7mm, the vehicle's overall height is 5mm lower, supporting aerodynamic efficiency. Front and rear tracks are 8mm wider to improve vehicle stance.

The exterior exudes robustness, too. This is no accident, as Chief Designer Nobuo Nakamura explained: "Designing a compact car like this is not easy. You want it to be loveable, but at the same time it also needs to have proper street credibility. So it should look solid and strong, fully occupying its space and having real road presence."

This solidity comes from a strong monofrom, which gives the design its overall volume. To add character, the concept was based on the expansion of a soft object with a rigid structure: as it bursts through the hard shell, it creates break lines and forms Aygo's frontal "X" graphic. This spreads out across the bodywork and contains all the car's key elements, including the upper and lower grilles, headlamps, fog lamps and even the door mirrors and side glazing.

"To protect the integrity of this design, we had to make some tough choices," said Nakamura. "For example, for the headlights to be narrow enough to be located within the "X" graphic, they had to use projector technology. This is something exceptional in the A-segment, which tends to favour the cheaper, but larger reflector-type headlamp. This is a good example of how we rejected compromise in order to end up with a better car."

The powerful "X" graphic also forms the basis for the exterior customisation options, integral to Aygo's design.

The profile view shows how the roof has been lowered and the front header moved forwards. As a result, the cabin's centre of gravity also shifts towards the front, creating a more balanced and forward-leaning posture. This is further emphasised by a sloping beltline, which terminates in the forward-angled rear light clusters. The roof itself has a pagoda-style profile with an integrated rear spoiler to aid aerodynamics.

The shape of the side glazing differs between the three and five-door models. On the latter the window graphic extends into the rear light clusters, giving a sense of added length.

The rear of the car mirrors the frontal design statement. In this case, the tailgate and lower bumper form the break lines, splitting the solid surface of the vehicle. The lamp clusters are set within a hexagonal tailgate; the upper bumper section widens into strongly protruding wheel arches, which give the car a broad and stable stance.

### **Cabin comfort**

The trapezoidal centre console sets the main theme for the interior design, its shape mirrored throughout the cabin in elements such as the air vents, door trim and gear lever surround.

The console supports a wide dashboard with a matt anti-glare finish, framed by sleek A-pillars which give the driver a wide field of vision. The instrumentation has a concentric meter design. Permanently lit, it incorporates a central multi-information display that's made easy to read with a large font design.

As with the exterior, numerous interior elements can be customised.

“We worked a lot on ergonomics,” said Chief Engineer Terai. “Mindful of the younger customers we see in the segment, we reduced the angle of the steering wheel from 28 to 26.6 degrees; reduced the front seat hip point by 10mm; and equipped the driver’s seat with height adjustment, so finding your preferred seating position should be easy.”

Although Aygo has the same 2,340mm wheelbase as before, the length of the passenger compartment has been increased by 9mm. Front seat comfort is also helped by 20mm wider armrests.

In the boot the luggage capacity has grown by 29 litres to 168 litres. Access has been improved as well thanks to a 75mm wider opening between the tailgate sill and the rear seatback.

### **Clever Customisation**

Customers can tailor their Aygo to their personal taste with a comprehensive range of simple, affordable and readily available customisation choices.

“This was particularly important to me,” said Chief Engineer Terai. “Firstly, customers have become used to a wide choice of colours and executions in many of the things they buy, so it is time for the motor industry to catch up. Secondly, the ability to create an Aygo that is very much your own is key to delivering the desirability I wanted to achieve. Knowing that your car is somehow unique will make it all the more special to you.”

The exterior interchangeable parts are the x-shaped front grille, rear bumper insert, front wing garnish and alloy wheels. In the cabin the instrument panel, centre console, air vents, gear shift knob and gear lever surround can easily be changed, even after several years of ownership.

### **Concept**

The challenge was to ensure customer choice remained as clear and simply structured as possible, so customisation was built on four pillars: diversity, simplicity, affordability and availability.

A straightforward range of core grades, special edition models (which will be renewed on a regular basis), and two exterior and interior packs, gives customers a clear understanding of

how many possibilities the simple customisation structure gives them to create the car of their choice.

This structured approach means Aygo delivery can be ensured with a minimum lead time, regardless of the customer's customisation preferences. This is further supported by the setting up of a customisation hub at Toyota Manufacturing UK's Burnaston plant, where the personalisation process takes place for cars for UK customers.

### **Grades**

Aygo is available in the UK in four grades, x, x-play and x-press and x-style, plus the special edition x-cite. Together they offer customers an exceptional choice, ranging from the simplicity of the entry-level model through to the highly equipped, sophisticated and vibrantly styled top-of-the-range versions.

The colour choices ramp up Aygo's fun factor, with five options: White Flash, Silver Splash, Electro Grey, Deep Blue Buzz, Bold Black and Red Pop. The x-cite (updated with a new model in July 2017) is offered only in a bi-tone Red Pop and black finish.

For details of the equipment specifications and options, see the Equipment and UK Range chapter and specification table below.

### **Customisation packs**

Customisation packs are key to Aygo's character and individuality. Customers can take advantage of a wealth of combinations of elements, colours and finishes to make their car distinctive and different, inside and out.

Moreover, Toyota has kept the prices low and ensured customers have the least wait for their car by initiating the customisation work once the vehicles have arrived in the UK,

The OUTstand pack lets owners of x-play models transform the exterior with three elements – the front x, A-pillar x-tension and rear bumper insert, in a choice of three colours (the pack is provided as standard on the x-style).

Yet more can be added with the OUTburst pack, which comprises a front bumper decal, side sills and rear diffuser decal, available in red or chrome.

The x-play's cabin can be transformed with the INspire pack with surrounds for the air vents and gear shift to match any exterior colour; other interior components have a piano black finish.

The mood heightens further with INtense, again for x-play, which introduces body colour-matched instrument panel, centre console and gear surround.

The x-style can be specified with a Funroof, an electric retracting canvas roof, giving Aygo an open-top option.

Owners can also have the double-bubble roof of their Aygo x-play covered in a contrasting coloured decal, and can ramp up the street style with optional five or double-five-spoke alloys in a choice of finishes, including gloss black and machined face.

## **DRIVING DYNAMICS**

- New development of Toyota's award-winning 1.0-litre VVT-i petrol engine
- Manual or x-shift automated manual transmission
- Excellent environmental performance – 68.9mpg and 95g/km CO<sub>2</sub> emissions
- Increased body rigidity and fine-tuned suspension and steering for better driving dynamics
- More comfortable ride for everyday around-town driving

Aygo has been engineered to deliver not only class-leading fuel efficiency, but also a more comfortable, quieter and, above all, more fun drive.

Significant improvements to the engine, the addition of exhaust gas recirculation, reduced bodysell weight and optimised airflow management all combine to achieve the best possible fuel efficiency.

Furthermore, comprehensive noise, vibration and harshness measures ensure a quieter cabin environment.

"We heard from Aygo drivers that they like the sporty engine note," said Chief Engineer David Terai, "but that they sometimes felt the car was too noisy. So we focused on damping the

engine and road noise, but at the same time keeping the characteristic engine sound and even tuning it slightly.”

### **Clever and Characterful Engine**

City car motorists are proving more loyal to the petrol engine than any other group of drivers, with 90 per cent of customers choosing it in preference to a diesel. With its comprehensively revised three-cylinder engine, Aygo gives them the balance of response and efficiency they are looking for.

“We wanted to improve performance as well as economy,” said Chief Engineer David Terai. “In the A-segment running costs are paramount; customers don’t want to spend a fortune on fuel bills. But at the same time we didn’t want to resort to expensive technology to reduce consumption, as this would have driven the vehicle price up too high. So our challenge was to come up with relatively simple, but clever ways to achieve our targets.”

That explains the long list of improvements that have been made to Aygo’s 1.0-litre three-cylinder engine, changes that have targeted better combustion efficiency, reduced friction losses and an exhaust system optimised for low emissions.

First, the engine’s combustion characteristics were improved. The compression ratio has been increased from 11.0:1 to 11.5:1. Cooling has been improved and a high tumble intake port ensures an optimum fuel-air mixture in the cylinder. Better oil injection has been secured by adding a piston jet and the VVT-i variable valve timing system has been adjusted. As a result, the engine now achieves a class-leading 37 per cent thermal efficiency.

Next, friction losses were reduced, by using a low-friction timing chain with an auto-tensioner. The valve lifters now have a Diamond-like Carbon coating, which gives a perfectly smooth contact area with less friction.

Fitting a twin-tank oil pan further contributes to reduced internal resistance, as it allows the oil to heat up faster.

The engine also adopts a cylinder head with a built-in exhaust manifold, and the exhaust system itself has been improved with an exhaust gas recirculation system and a 0.7-litre catalytic converter.

Engine power has increased to 69bhp/51kW at 6,000rpm and torque output has risen to 95Nm at 4,300rpm, with 85Nm available from as little as 2,000rpm. Aygo can accelerate from rest to 62mph in 14.2 seconds and reach a top speed of 99mph.

Combined cycle fuel consumption marks an improvement from 65.7 to 68.9mpg, with is accompanied by a reduction of 4g/km in CO<sub>2</sub> emissions to 95g/km.

In making all these improvements, Toyota paid close attention to maintaining the engine's popular, sprightly character. It will still rev happily and, though sound insulation has been improved, its sporty, carefully tuned note is still there when pushed hard.

### **x-shift**

The x-shift is a vastly improved version of Toyota's automated manual transmission, with a fully automatic shift mode and no clutch pedal. It uses a computer controlled system to synchronise engine, clutch and transaxle for quick and precise shifts.

Selecting E (easy), M (manual) or R (reverse) mode allows the car to 'creep' like a conventional automatic. In E mode the system selects a suitable gear, according to accelerator pedal position, vehicle speed and driving conditions. The transmission also features the kick-down function that's familiar from standard automatics. The driver can override the system temporarily, by using paddle controls mounted on the steering wheel.

M mode lets the driver make manual shifts, using the shift lever or the paddles.

When equipped with x-shift, Aygo has official combined cycle figures of 67.3mpg and 97g/km.

### **Weight saving measures**

Extensive use of high tensile steel throughout the bodyshell, including the use of 590MPa and 980MPa-grade sheets – increases structural strength and reduces weight.

Aygo also features lightweight outer panels. Together the bonnet, roof, front wing and side outer panels save 2.5kg on the weight of five-door models, 2.7kg on three-door versions. The combination of bodyshell and panel engineering measures delivers a total weight reduction of about 12kg compared to the same components fabricated in conventional steel.

### **Airflow management**

Toyota carried out extensive work on Aygo's aerodynamics, to further improve fuel efficiency. This includes managing the airflow over all areas of bodywork to reduce air resistance.

At the front, the bumper, bonnet and windscreen are designed to smooth the flow of air over and under the body. The shape of the double bubble-style roof, integrated rear spoiler and rear combination lamps works to separate airflow from the roof and sides of the car, helping reduce wake turbulence.

Rear wheel spats streamline airflow beneath the vehicle and the use of a four-way duct optimises the airflow to the engine bay. As a result of these measures, Aygo's drag coefficient has improved from Cd 0.30 to Cd 0.28.

## **RIDE COMFORT AND FUN-TO-DRIVE QUALITY**

### **Increased body rigidity**

A rigid body structure established a firm foundation for the refinement and fine-tuning of Aygo's suspension and steering.

To that end, 119 additional welding spots were added, taking the total to 544. These target the body parts which affect driving performance: the cowl and dash panel, front and rear door apertures, the wheel house, the tailgate opening and lower back panel.

Rear underbody rigidity has been improved by increasing the thickness of the floor brace from 1.2 to 2.3mm.

The result of these measures is a notable improvement in yaw responsiveness, steering grip and rear grip feel, allowing Aygo to react quickly and precisely to driver inputs.

### **Improved aerodynamic characteristics**

As described in the airflow management section above, Aygo's comprehensive aerodynamic measures combine to generate downforce for better high-speed and straight-line stability.

Stability is further improved by the addition of aero-stabilising fins on the door mirror mounting plate and rear combination lamp cover.

### **Fine-tuned suspension, steering and transmission**

Numerous elements in Aygo's suspension have been revised and retuned for better ride comfort, with no detriment to handling agility and responsiveness. The design retains the front MacPherson strut and rear torsion beam combination from the first-generation model.

At the front, the lower arm, steering knuckle and upper support have been revised and the coil springs and shock absorbers have been tuned to give a flat, more comfortable ride. At the same time, the rear anti-roll bar's rigidity has been increased for greater roll rigidity, ensuring that the more comfortable ride is not achieved at the cost of the car's dynamics.

The rear springs and shocks have also been retuned and a new torsion beam design features a change from a plate to a pipe structure. The revised suspension also delivers a 3.3kg weight saving.

The electric power steering has been adjusted for a smoother, more precise feel. Using a larger motor has brought a 14 per cent increase in steering directness, with quicker response to driver inputs.

The shift lever's round bearing now has a rubber back-up ring to reduce the backlash of moving parts, giving a firmer, more precise gear shift feel.

Finally, the x-shift automated manual transmission combines a lower gear differential for better acceleration with higher third, fourth and fifth gearing for better fuel economy, resulting in a better balance of driving enjoyment and fuel efficiency.

## **CABIN QUIETNESS AND ENGINE SOUND**

### **Reduced noise and vibration**

A series of measures have been taken to reduce the level of engine, road and wind noise transmitted into the cabin.

Engine noise has been reduced by better bonnet and front wing insulation; a dashboard outer silencer; and a new, expanded inner silencer with a rubber core.

The level of road noise intrusion has been brought down by the comprehensive application of asphalt sheeting to the vehicle floor. Road surface vibrations have been reduced with the introduction of a revised wheel design.

Adding sound insulating and absorbing materials into the cross section of the body frame, the floor tunnel and instrument panel has further reduced noise intrusion into the cabin.

Wind noise has been suppressed with the adoption of door-head weather strips; a reduction in the steps between the front of the windscreen and the A-pillar and the front door window and door panel; and a revised park position for the windscreen wiper.

The underbody structure has been optimised to prevent body deformation, helping reduce the level of bodyshell vibrations. The front floor panel is now made with curved rather than flat surfaces, the centre tunnel panel has been reinforced, and bulkheads have been fitted to the lower part of the central door pillar.

Finally, engine vibration transmission has been reduced thanks to a new hydraulic engine mount and a two-point torque rod-type engine mount.

### **Engine sound tuning**

Although engine noise and vibration have been substantially reduced, steps have been taken to preserve the engine's characterful note, a feature popular with customers.

The engine intake system has been re-engineered with a smaller intake volume and a longer intake nozzle. This filters out unwanted high frequency noise while tuning the engine note to give an eager sound during more spirited driving.

### **EQUIPMENT AND UK RANGE**

- x-touch system provides latest on-board multimedia and smartphone connectivity
- Rear View Monitoring system, a first in the city car segment
- Funroof electric retracting canvas roof option for Aygo x-style
- Extensive range of active and passive safety features fitted as standard
- Toyota Safety Sense active safety package available as an option
- Special edition Aygo x-cite model

### **A COMPELLING PACKAGE**

The Toyota Aygo provides city car customers with clever packaging, stylish design, personalisation opportunities and, above all, fun. Going beyond this, it also comes with a comprehensive range of standard and optional equipment.

The long list of comfort and convenience-enhancing features also extends to projector headlamps, control switches on the steering wheel and height-adjustable driver's seat. A great asset for Aygo's young urban customers, there is an x-touch multimedia system with MirrorLink smartphone connectivity.

## Equipment highlights

Key equipment features of the core Aygo model range: -

<b>Aygo x</b>	<b>Aygo x-play adds</b>	<b>Aygo x-press adds (to x-play specification)</b>	<b>Aygo x-style adds (to x-play specification)</b>
14-inch wheels	15-inch wheels	15-inch black or machined face alloy wheels	15-inch black or machined face alloy wheels
Projector headlights with LED tracer line	Gloss black front X	Dark grey seats with white bolsters	Dark grey seats with white bolsters
LED daytime running lights	Body colour doorhandles and mirrors	x-touch multimedia system with DAB	x-touch multimedia system with DAB
2-speaker audio with Aux and USB connections	Leather steering wheel and gear shift trim	Reversing camera	Reversing camera
Power front windows	4-speaker audio	Automatic air conditioning	Automatic air conditioning
Wireless door locks	Bluetooth	Dusk-sensing headlights	Dusk-sensing headlights
Isofix child seat anchors	Audio and phone control switches on steering wheel	Rear privacy glass	Rear privacy glass
ABS and Vehicle Stability Control Hill-start Assist Control	Air conditioning with clean air filter	Body coloured instrument panel	Body coloured instrument panel

Driver, front passenger and curtain airbags	Tachometer	Gloss black air vent and gear shift surrounds and centre console	Gloss black air vent and gear shift surrounds and centre console
Seat belt warning system	Driver's seat height adjustment	Gloss black or silver front X and rear diffuser	Grey or silver front X, A-pillar extension and rear diffuser
Tyre pressure warning system	50:50 split-folding rear seats	Red front and rear bumper accents, roof decal and side sills	Front fog lamps
	Power adjustable, heated door mirrors	Front fog lamps	

The x-cite special edition model features a number of specific styling and equipment elements:-

<b>Aygo x-cite</b>
Red Pop and black bi-tone exterior paint finish
15-inch gloss black alloys with red centre caps
Gloss black doorhandles and mirrors
Gloss black rear bumper insert
Gloss black A-pillar x-tension
Front fog lights
Chrome internal doorhandle finish
Gloss black instrument panel, centre console and gear shift surround with red air vent surrounds, door panel inserts and carpet mat edging
x-touch multimedia system with DAB
Rear-view camera
Rear privacy glass
Dusk-sensing headlights
Automatic air conditioning
Blaze black cloth upholstery with red bolsters

The x-clusiv special edition, upgraded in February 2017, provides a high specification: -

Dashboard and upper door trims finished in body colour
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Vogue leather upholstery in dark and Anthracite mid-grey
Optional electric full-length canvas Funroof
Exclusive Cyan Splash exterior paint option
15-inch machined face alloy with silver centre caps
x-touch multimedia system
Reversing camera
Climate control air conditioning
Dusk-sensing headlamps
Smart Entry and push-button start
Rear privacy glass
Bluetooth
DAB radio reception
Carpet mats with Anthracite edging
Power-adjustable heated door mirrors

### **Toyota Safety Sense**

Where Toyotas are concerned, being small is no barrier to benefiting from the latest safety technology. Aygo can be specified with Toyota Safety Sense, which provides a suite of features that can help prevent an accident happening, or reduce the severity of an impact, adding to the model's already impressive active and passive safety features.

On Aygo, Toyota Safety Sense provides a laser-controlled Pre-Collision System that warns the driver of an imminent collision with a vehicle ahead (Forward Collision Warning) and readies Pre-Crash Brake Assist to deliver emergency braking as soon as the brake pedal is pressed. Should the driver fail to take action after the warning, the system will initiate Autonomous Emergency Braking to reduce speed by about 19mph, potentially bringing the car to a stop, to prevent a collision or reduce the force of impact.

The Forward Collision Warning works at speeds between 10 and 86mph, when the relative speed between the Toyota and the car ahead is greater than 10mph. The Pre-Crash Brake

Assist functions at speeds between 19 and 49mph, with relative vehicle speeds greater than 19mph. For Autonomous Emergency Braking, the speed range is from seven to 49mph.

A Lane Departure Alert function is also included. This monitors lane markings on the road and helps prevent accidents and head-on collisions caused by a vehicle moving out of its lane. If the car starts to deviate from its lane without the turn indicators being used, the system alerts the driver with visual and audible warnings.

Toyota Safety Sense is available on all Aygo models above x grade.

Standard safety items on all Aygo models include ABS with Electronic Brakeforce Distribution, emergency braking signals, vehicle stability control, curtain airbags, Isofix child seat anchors, a tyre pressure monitor, adjustable speed limiter and, for the first time, Hill-start Assist Control.

Aygo's high-rigidity bodyshell is designed to minimise cabin deformation in front, side and rear collisions.

### **Equipment options**

In addition to the extensive range of customisation packs, Aygo customers can take advantage of a range of options that focus on more sophisticated equipment and luxury touches.

The x-cite model can be specified with the x-tra convenience pack, which adds automatic air conditioning, dusk-sensing headlights and keyless entry and push-button start.

Owners of the x-style can also enjoy the fun of open-top driving with the Funroof canvas roof. This electrically operated roof extends almost the full length of the car, ensuring that anyone travelling in the rear seats also gets to enjoy some of the wind-in-the-hair experience.

All versions can be fitted with the OUTshield pack, which adds rear parking sensors, a boot liner, aluminium scuff plates, rubber floor mats and mud flaps.

### **x-touch**

Taking affordable multimedia systems to the next level, Toyota x-touch gives Aygo customers a user-friendly combination of the latest on-board multimedia technology and smartphone connectivity.

The system uses a seven-inch full colour touchscreen that is fully integrated in the instrument panel. It is the first system in the segment to provide a rear-view camera as standard.

The main menu has a simple five-icon arrangement, allowing at-a-glance identification of all functions.

The Audio Source menu groups AM/FM/DAB radio, Bluetooth music streaming and audio via Aux and USB connection, with the facility to display album cover art.

A MirrorLink function can be activated through the Connect menu. Once a compatible smartphone is connected, MirrorLink will replicate the phone's screen and compatible applications on the x-touch display. Smartphone functions can be accessed using the touchscreen.

An optional x-nav pack, unique to Aygo, can be linked to the multimedia system, using a dedicated storage pocket in the glovebox. This is activated using the Connect menu and gives driver access to fast and accurate pan-European route guidance.

"We even offer customisation with x-touch, the driver can personalise the start-up screen simply by uploading an image from a USB stick," said Chief Engineer Terai. "We've also added a playful touch to the system's design. When Audio is turned off, a large digital clock, with retro 'flip-over' numbers is displayed. And the status bar at the top of the screen includes a Manga thermometer to show the outside temperature. When the temperature falls below 3°C, the display appears to freeze over. When it's above 40°C, the display turns red and appears to give off steam."

### **Rear-View Monitor**

The rear-view monitor is a boon when manoeuvring in tight spaces. Included in the x-touch system, it is activated whenever reverse gear is selected, using a rear-view camera to display an image of the area behind the car on the central x-touch display.

### **Steering wheel switchgear**

All models apart from the entry-level Aygo x are equipped with additional controls mounted on the steering wheel, giving drivers quick and intuitive control of audio and phone functions.

### **Projector headlamps**

The standard-fit projector headlamp clusters incorporate PES-type (poly-ellipsoid system) halogen headlights that give a longer reach and broader illumination on full or low beam, and LED tracer and daytime running lights that give Aygo its own, recognisable lighting signature.

### Timeline and UK sales

YEAR	MONTH	EVENT
2005	July	Aygo goes on sale in the UK with a 1.0 VVT-i petrol engine and choice of manual or MultiMode (M/M) transmission.
	October	Introduction of Aygo Customised leather option.
	December	Aygo wins Top Gear Car of the Year Award jointly with Bugatti Veyron.
2006	January	A 1.4 diesel engine is added to the range, developed by PSA Peugeot-Citroen.
	February	Aygo Hide (leather and Alcantara) option introduced.
	July	Aygo Black introduced.
2007	May	Diesel engine and Sport grade deleted. Aygo Blue introduced. 1.0 VVT-i engine wins sub-1.0-litre category in International Engine of the Year awards.
2008	Jan	Aygo Black deleted, replaced by new top-of-the-range Aygo Platinum.
	May	New Slate Blue metallic paint finish for Aygo Blue. 1.0 VVT-i engine wins sub-1.0-litre category in International Engine of the Year awards for second consecutive year.
2009	January	Aygo revised for 2009 with Toyota Optimal Drive 1.0-litre VVT-i engine, giving improved fuel economy and emissions; Front bumper, grille and rear lamp clusters revised. Aygo Platinum deleted, Aygo Blue and Aygo Black introduced.
	May	1.0 VVT-i engine wins sub-1.0-litre category in International Engine of the Year awards for third year running.
2009	June	A new Aygo Platinum replaces Aygo Black as top-of-the-range feature model.
2010	March	Aygo Black returns to the range in place of Aygo Platinum.

	May	1.0 VVT-i engine makes it four in a row by winning the sub-1.0-litre category in International Engine of the Year awards.
2011	January	Aygo Go! Introduced, Aygo Black deleted from range.
	April	Aygo Ice introduced, Aygo Blue deleted from the range.
2012	March	New front-end styling. Engine revisions reduce CO <sub>2</sub> emissions and improve fuel economy. Introduction Aygo Fire feature model. Introduction of Technology Pack options with VSC available for all models
2013	July	New Aygo range introduced with Active, Active Plus, Mode and Move grades. Safety upgrade sees all versions gain VSC, curtain airbags and ISOFIX child seat mounts as standard. New roof decal designs and two-tone paint finish options are introduced.
2014	March	Toyota reveals the new <a href="#">second generation Aygo</a> at the Geneva motor show.
	June	Toyota announces <a href="#">prices and three core grades</a> for Aygo in the UK, x, x-play and x-expression, plus special edition x-cite and x-clusiv models.
	August	Aygo UK sales are launched.
2015	January	<a href="#">A retracting roof</a> is introduced as an option for x-expression models.
	July	New <a href="#">x-cite and x-pure</a> special edition models are introduced.
	August	<a href="#">Toyota Safety Sense</a> is made available as an option on all Aygo models above x grade.
2016	February	New x-clusiv model introduced, featuring retracting roof.
	April	A new x-cite model is introduced with Yellow Fizz paintwork.
	December	New x-press and x-style models join the range; x-expression, x-pure and x-clusiv grades are deleted.
2017	February	x-clusiv specification is revised with additional colour choices and new Vogue leather seat upholstery. Funroof becomes an option.
	May	<a href="#">Aygo x-claim</a> introduced as limited edition, top of the range model.
	July	<a href="#">Aygo x-cite</a> is revised with new bi-tone Red Pop and black exterior and red interior detailing.

UK Sales in 2017: 22,264

Cumulative UK sales since launch (2005): 212,305

## TOYOTA AYGO TECHNICAL SPECIFICATIONS

<b>ENGINE</b>			
Type		1.0-litre VVT-i	
Configuration		3-cylinder, in-line	
Valve mechanism		12-valve DOHC, chain drive	
Displacement (cc)		998	
Bore x stroke (mm)		71 x 84	
Compression ratio		11.5:1	
Max. power (bhp/kW @ rpm)		69/51 @ 6,000	
Max. torque (Nm @ rpm)		95 @ 4,300	
<b>BRAKES</b>			
Front		Ventilated discs, 247 x 20mm	
Rear		Drums, 200mm inner diameter	
<b>SUSPENSION</b>			
Front		MacPherson strut	
Rear		Torsion beam	
<b>STEERING</b>			
Type		Rack and pinion, electric power steering	
<b>TRANSMISSION</b>			
Type		5-speed manual	x-shift (automated manual)
Gear ratios	1 <sup>st</sup>	3.545	3.545
	2 <sup>nd</sup>	1.913	1.913
	3 <sup>rd</sup>	1.310	1.161
	4 <sup>th</sup>	1.027	0.973
	5 <sup>th</sup>	0.850	0.804
	Reverse	3.214	3.2124
Differential gear ratio		3.550	4.294
<b>PERFORMANCE</b>			
Max. speed (mph)		99	99

0-62mph acceleration (sec)	14.2	15.5
<b>FUEL CONSUMPTION</b>		
Combined (mpg)	68.9	67.3
Urban (mpg)	56.5	56.5
Extra urban (mpg)	78.5	74.3
<b>EMISSIONS &amp; INSURANCE</b>		
CO <sub>2</sub> (g/km)	95	97
Insurance groups	6E to 8E	
<b>WEIGHTS</b>		
Kerb weight (kg)	840 – 900	860 – 905
Gross vehicle weight	1,240	1,240
<b>EXTERIOR DIMENSIONS</b>		
Overall length (mm)	3,455	
Overall width (mm)	1,615	
Overall height (mm)	1,460	
Front overhang (mm)	675	
Rear overhang (mm)	440	
Wheelbase (mm)	2,340	
Front track (mm)	1,425	
Rear track (mm)	1,420	
Drag coefficient (Cd)	0.28	
Wheel size	14in or 15in	
Tyre size	165/65R14 or 165/60R15	
Turning radius – tyre (m)	4.8 (14in wheel) 5.1 (15in wheel)	
<b>INTERIOR DIMENSIONS</b>		
Interior length* (mm)	1,630*	
Interior width (mm)	1,250 (3dr) 1,300 (5dr)	
Interior height (mm)	1,205	
Couple distance	806	
Luggage capacity (l)	168	

\* Measured from accelerator pedal to rear seat hip point.

## TOYOTA AYGO EQUIPMENT LIST

<b>SAFETY</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
Driver and passenger airbag	✓	✓	✓	✓	✓	✓
Front side airbags	✓	✓	✓	✓	✓	✓
Curtain airbags	✓	✓	✓	✓	✓	✓
Isofix child seat fixings	✓	✓	✓	✓	✓	✓
Passenger airbag cut-off switch	✓	✓	✓	✓	✓	✓
Driver's seatbelt reminder system, with buzzer	✓	✓	✓	✓	✓	✓
Front seatbelts with pretensioners and force limiters	✓	✓	✓	✓	✓	✓
Four three-point seatbelts with Emergency Locking Retractor	✓	✓	✓	✓	✓	✓
ABS with EBD	✓	✓	✓	✓	✓	✓
Vehicle Stability Control	✓	✓	✓	✓	✓	✓
Childproof rear door locks (five-door models)	✓	✓	✓	✓	✓	✓
Hill-start Assist Control	✓	✓	✓	✓	✓	✓
Tyre Pressure Warning System	✓	✓	✓	✓	✓	✓
Speed limiter (manual transmission models only)	x	✓	✓	✓	✓	✓
Toyota Safety Sense (Pre-Collision System, Autonomous Emergency Braking, Lane Departure Alert)	x	Opt	Opt	Opt	Opt	Opt
<b>INSTRUMENTS &amp; CONTROLS</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
Lights on audible warning	✓	✓	✓	✓	✓	✓
Twin speed wiper	✓	✓	✓	✓	✓	✓
Electronic headlamp levelling	✓	✓	✓	✓	✓	✓
Tachometer	x	✓	✓	✓	✓	✓
<b>COMFORT &amp; CONVENIENCE</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
Power adjustable heated door mirrors	x	✓	✓	✓	✓	✓
Locking fuel filler cap	✓	✓	✓	✓	✓	✓
Electric front windows	✓	✓	✓	✓	✓	✓
Stepless tilt adjustable steering column	✓	✓	✓	✓	✓	✓
Accessory power socket in cabin	✓	✓	✓	✓	✓	✓
Steering wheel-mounted audio and phone controls	x	✓	✓	✓	✓	✓
<b>AUDIO &amp; NAVIGATION</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
AM/FM RDS radio player with two speakers	✓	x	x	x	x	x
AM/FM RDS radio player with four speakers	x	✓	x	x	x	x
x-touch multimedia system with DAB, MirrorLink and rear-view camera	x	Opt	✓	✓	✓	✓
x-nav navigation system	x	Opt	Opt	Opt	Opt	Opt
Aux-in and USB connection	✓	✓	✓	✓	✓	✓
Roof-mounted aerial	✓	✓	✓	✓	✓	✓
<b>VENTILATION</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>

Ventilation system with four-speed fan function	✓	x	x	x	x	x
Air conditioning with clean air filter	x	✓	x	x	x	x
Automatic air conditioning	x	x	✓	✓	✓	✓
<b>SECURITY</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
Transponder key engine immobiliser	✓	✓	✓	✓	✓	✓
Remote central locking	✓	✓	✓	✓	✓	✓
Vehicle parts marking – major parts traceable to VIN	✓	✓	✓	✓	✓	✓
<b>SEATING, UPHOLSTERY &amp; TRIM</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
Recline and slide adjustable front seats	✓	✓	✓	✓	✓	✓
Driver's seat height adjustment	x	✓	✓	✓	✓	✓
Dark grey fabric seat upholstery	✓	x	x	x	x	x
Dark grey fabric seat upholstery with light grey and white accents	x	✓	x	x	x	x
Grey fabric seat upholstery with white bolsters	x	x	✓	✓	x	x
Grey fabric seat upholstery with yellow and light grey bolsters	x	x	x	x	✓	x
Vogue dark grey and Anthracite leather seat upholstery	x	x	x	x	x	✓
One-piece folding rear seat back	✓	x	x	x	x	x
50:50 split/fold rear seat back	x	✓	✓	✓	✓	✓
Front seats with integrated head restraints	✓	✓	✓	✓	✓	✓
Rear seats with detachable headrests	x	✓	✓	✓	✓	✓
Leather steering wheel and gear knob trim	x	✓	✓	✓	✓	✓
Chrome interior door handle finish	x	✓	✓	✓	✓	✓
<b>EXTERIOR &amp; BODY</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
Projector headlights with LED tracer lights	✓	✓	✓	✓	✓	✓
Dusk-sensing headlights	x	x	✓	✓	✓	✓
Front fog lights	x	x	✓	✓	✓	✓
LED daytime running lights	✓	✓	✓	✓	✓	✓
Integrated rear spoiler	✓	✓	✓	✓	✓	✓
Rear privacy glass	x	x	✓	✓	✓	✓
Colour-keyed door handles and mirrors	x	✓	✓	✓	x	✓
Gloss black door handles and mirrors	x	x	x	x	✓	x
Gloss black or silver front X	x	✓	✓	✓	✓ (black)	✓
Gloss black or silver rear diffuser	x	✓	✓	✓	✓ (black)	✓
Red front and rear bumper accents	x	x	✓	x	x	x
Red side sills and roof decal	x	x	✓	x	x	x
Gloss black roof (bi-tone)	x	x	x	x	✓	x

					(3dr)	
14-inch steel wheels with full wheelcaps	✓	✘	✘	✘	✘	✘
15-inch steel wheels with full wheelcaps	✘	✓	✘	✘	✘	✘
15-inch gloss black or machined face alloy wheels	✘	Opt	✓	✓	✓ (black)	✓
Tyre repair kit	✓	✓	✓	✓	✓	✓
Space saver spare wheel	Opt	Opt	Opt	Opt	Opt	Opt
Metallic paint	✘	Opt	Opt	Opt	✓ Red Pop	Opt
Bi-tone finish with black roof, black pillars and rear privacy glass	✘	✘	✘	✘	✓	✘
White Flash paint	Opt	Opt	Opt	Opt	✘	Opt
Roof decal	✘	Opt	✓	✘	✘	✘
Retracting electric canvas roof	✘	✘	✘	Opt	✘	Opt
<b>OPTION PACKS</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
x-tra convenience (automatic air conditioning, dusk-sensing headlights, keyless entry and push-button start)	✘	✘	Opt	✘	Opt	✘
OUTshield (rear parking sensors, boot liner, aluminium scuff plates, rubber floor mats, mud flaps)	✓	✓	✓	✓	✓	✓
<b>CUSTOMISATION PACKS</b>	<b>x</b>	<b>x-play</b>	<b>x-press</b>	<b>x-style</b>	<b>x-cite</b>	<b>x-clusiv</b>
OUTstand (front X, A-pillar x-tension, rear bumper insert)	✘	Opt	✘	✓	✘	✘
OUTburst (front spoiler decal, side sills, rear diffuser decal in red or silver, 5dr only)	✘	Opt	✓	✘	✘	✘
INspire (air vent and gear shift surround in body colour)	✘	Opt	✘	✘	✘	✘
INtense (instrument panel, centre console, gear shift surround in body colour)	✘	Opt	✘	✘	✘	✘

Ref: 180110M