



mazda

THE NEW
Mazda CX-5

NOW WITH CYLINDER DEACTIVATION SYSTEM



SKYACTIV
TECHNOLOGY

ZOOM-ZOOM

Each and every vehicle we build must understand the driver's desires and respond exactly as intended.

Our core belief is true driving pleasure begins at the moment you experience the car as an extension of your body.

Aiming to engineer vehicles achieving unprecedented unity with the driver, Mazda renews its commitment to the challenge.



Beauty finely honed, shorn of non-essentials

Our aim was to refine toughness and give it mature dignity. And so, in creating this well-planted, muscular body with its elegant style and superior fit and finish, we focused on a Japanese aesthetic in pursuit of the honed beauty that comes only when all non-essential elements are eliminated.

Form, colours and textures are all strikingly beautiful in their simplicity, and are bold yet matured, making the new CX-5 a superlative demonstration of the further evolution of the KODO concept that brings pure vitality into car design.





MAZDA CX-5 (2.5 MODEL)



MAZDA CX-5 (2.0 PREMIUM MODEL)









Mazda CX-5 (2.5 MODEL)

Human-centric engineering: the key to satisfaction

At Mazda, driver satisfaction is always the driving force. So all our research and development is centred on you, the driver, to give you the confidence and peace of mind that comes with Mazda's trademark *Jinba-ittai* feeling of unity with the car. And to deliver soul-stirring driving along with superior safety and environmental performance, Mazda developed the innovative SKYACTIV TECHNOLOGY. Now this suite of technological breakthroughs enters a new phase with SKYACTIV-VEHICLE DYNAMICS and its debut function G-Vectoring Control (GVC) to deliver outright driving pleasure for the driver alongside unparalleled comfort and serenity for all on board. Taking how you and your passengers physically experience CX-5's dynamic, unprecedented SUV performance as their base, Mazda's human-centred innovations open a new world of enjoyment of the road.

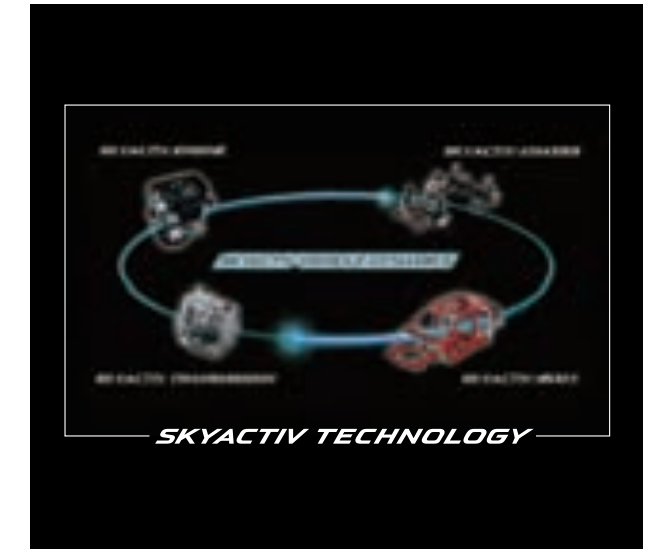
The birth and evolution of SKYACTIV TECHNOLOGY

Exhilarating, fun driving combined with unprecedented environmental and safety performance – it seems like an impossible dream. And it required tearing up the rule book of conventional ideas plus a series of quantum leaps in technology to achieve. But this is what inspired the development of SKYACTIV TECHNOLOGY, and what continues to drive its evolution along a path charted by human-centric engineering. From its very beginnings, SKYACTIV TECHNOLOGY was squarely aimed at eliminating inefficiency and waste throughout the entire vehicle to deliver unheard-of levels of fuel efficiency along with cutting-edge safety and unmatched driving pleasure, helping to realize Mazda's future vision of 'Sustainable Zoom-Zoom'.

The next step: SKYACTIV-VEHICLE DYNAMICS

Jinba-ittai is what makes every Mazda so special. The outcome of Mazda's human-centric design and development philosophy, *Jinba-ittai* lets the driver control the vehicle – whether turning,

braking or just cruising – as simply and naturally as if it were an extension of his or her body. Now, to take this concept to the next level, CX-5 introduces SKYACTIV-VEHICLE DYNAMICS. This new addition to SKYACTIV TECHNOLOGY provides integrated control of the engine, transmission, chassis and body to further enhance the *Jinba-ittai* feel of connectedness between car and driver. As opposed to conventional vehicles where these four key areas are controlled separately, SKYACTIV-VEHICLE DYNAMICS takes a holistic, human-centred approach with real-time feedback and dynamic interaction occurring between the driver and amongst these four pillars of vehicle control. The result is an involving, exhilarating drive as CX-5 responds to your every intention with crisp, confidence-inspiring linearity and predictability. This innovative, new-generation vehicle dynamics control system is the fruit of a multi-year initiative undertaken in pursuit of the ideal in rewarding sensations for both driver and passengers, as well as the ultimate in vehicle dynamics. And it sets a new benchmark for driver satisfaction.



G-VECTORING CONTROL PLUS (GVC PLUS)

Smoother response for a more satisfying drive

Smooth transitions between G-forces when braking, turning and accelerating are an essential element of *Jinba-ittai*, and have been a major development focus at Mazda for many years. This unified feel to braking, steering and acceleration, along with consistent feedback, allows the driver to control the vehicle easily and precisely. And Mazda's G-Vectoring Control (GVC) – the debut technology of SKYACTIV-VEHICLE DYNAMICS – took this dynamic, unified feel to an even higher level. Now, advanced GVC Plus offers even greater capability. It's a logical extension of Mazda's human-centric design and engineering philosophy that not only concentrates on mechanical efficiency but also considers how a vehicle should be in light of human characteristics. GVC Plus is a new approach to controlling vehicle dynamics that uses the engine and brakes to enhance handling performance, and it gives Mazda vehicles even smoother transitions between G-forces in all driving scenarios.

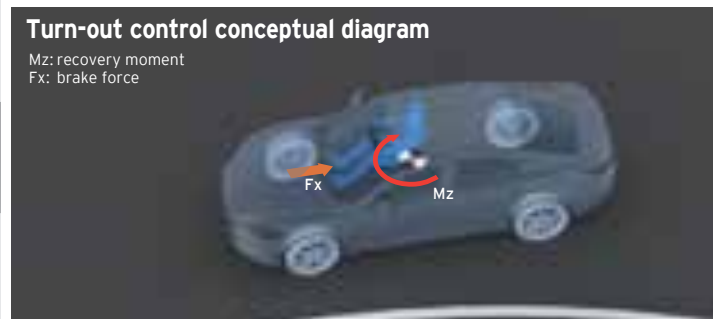
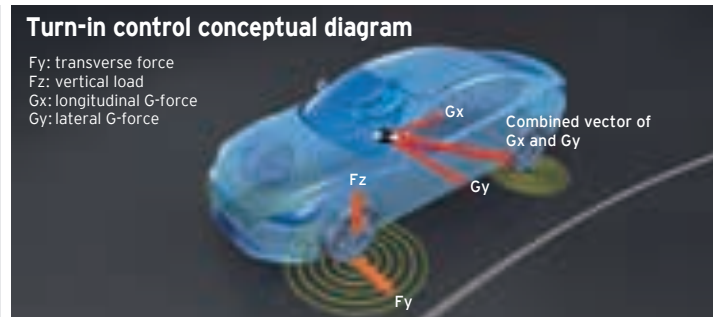
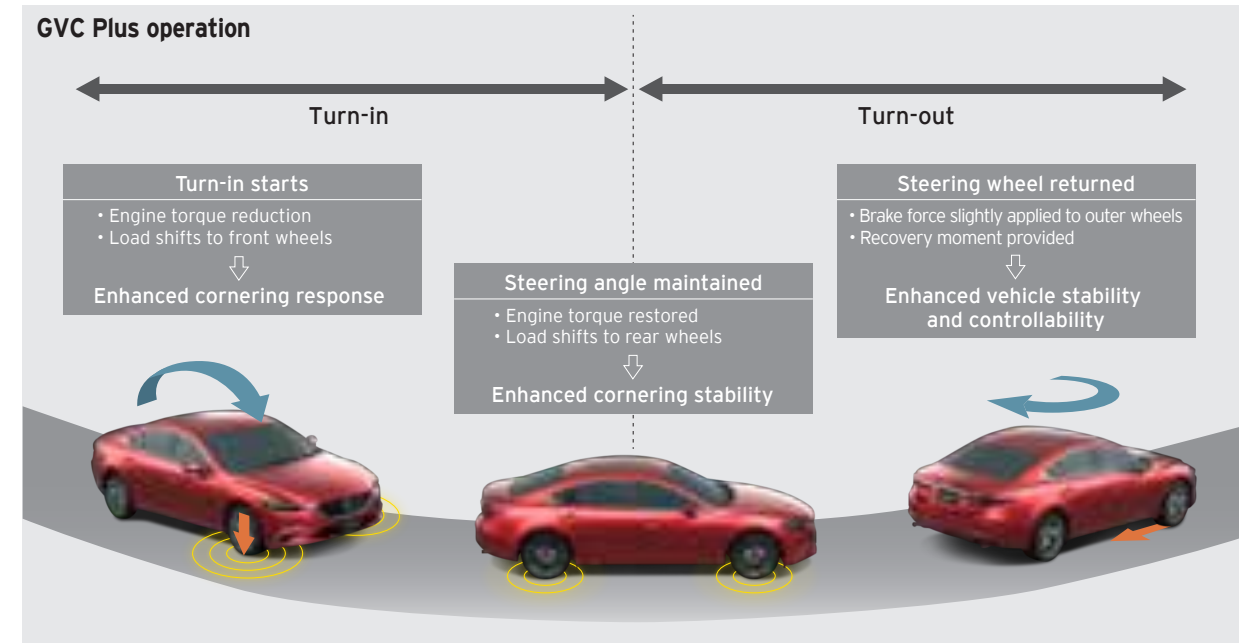
Enhanced chassis performance via intelligent engine control

Conventionally both lateral and fore-aft G-forces are controlled separately. In contrast, GVC Plus adjusts engine torque according to the driver's steering inputs to give unified control of G-force in all directions and dynamically optimize the vertical load on each wheel. For example, the instant the driver begins to turn the wheel to enter a curve, GVC Plus momentarily lowers engine torque to transfer weight to the front wheels and enhance the front tyres' grip. Then while a constant steering angle is maintained, GVC Plus recovers engine torque to transfer load back to the rear wheels and heighten vehicle stability. This series of load transfers not only maximizes front and rear tyre grip to enhance response and stability in accordance with the driver's intentions, GVC Plus does it so smoothly and naturally that neither the driver nor passengers feel any discomfort. Thanks to this dynamic load allocation, GVC Plus greatly reduces the necessity for steering corrections, enabling the driver to

maintain a chosen line with greater confidence and lower fatigue on long drives. What's more, by smoothing the transitions between G-forces, GVC Plus suppresses the swaying of heads and bodies to give all occupants a smoother and more enjoyable ride.

Yaw moment control at turn-out via intelligent brake control

In addition to providing a dynamic, unified feel at turn-in, GVC Plus now adopts direct yaw moment control via the brakes to enhance vehicle stability, especially at turn-out. During cornering, GVC Plus slightly applies brake force to the outer wheels as the steering wheel is returned to the centre position, providing a recovery moment to restore the vehicle to straight line running. The result is not only consistent effectiveness over a range of situations from low-speed everyday driving to high-speed sporty driving, GVC Plus now also boasts a higher capability for emergency avoidance that requires sudden lane changes, as well as more controllable, confidence-inspiring vehicle behaviour while driving on slippery surfaces such as snowy roads.



HIGHLY EFFICIENT SKYACTIV-G 2.0 DIRECT-INJECTION GASOLINE ENGINE

This 2.0-liter engine features a balance between the spirited drive of its powerful low- to mid-range torque and excellent fuel efficiency. New air intake port, new shapes of piston in the areas of its top/edge of top/skirt, new piston rings, new fuel injection system and Water Flow Management system are incorporated. These changes increase low-end torque by 6.2 percent, while also reducing real-world fuel consumption and particulate matter formation during combustion. The result is enhanced levels of dynamic performance, fuel economy, and environmental friendliness. The changes also made it possible to use a unified compression ratio of 13.0:1 for the engines shipped to all markets.

HIGHLY EFFICIENT SKYACTIV-G 2.5 DIRECT-INJECTION GASOLINE ENGINE

With a high 13.0:1 compression ratio, the reduced weight of an aluminum-alloy cylinder block, and a balancer unit that reduces low frequency rattling, the SKYACTIV-G 2.5 engine achieves high levels of dynamic performance, fuel economy and quietness. The same update as SKYACTIV-G 2.0 is applied. In addition, a new cylinder deactivation system available further reduces fuel consumption when driving at constant speeds between 40-80km/h.



CYLINDER DEACTIVATION [SKYACTIV-G 2.5 ONLY]

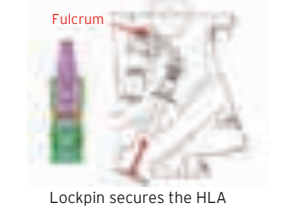
The system shuts down two of the engine's four cylinders in light-load situations, such as when cruising at a constant speed. Running on two cylinders reduces pumping loss and mechanical resistance. Deactivation is achieved via a switching mechanism in the hydraulic lash adjusters (HLA) of the first and fourth cylinders. When running on all four cylinders, these serve as the fulcrum (pivot point) for each rocker arm, and the arms operate the intake and exhaust valves. Automated releasing of lockpin in HLA switches the fulcrum to the valve side, stopping the movement of the valves to deactivate the outer two cylinders. Airflow intake volume, fuel injection amount and ignition timing are precisely controlled to allow the engine to switch smoothly between two-cylinder and four-cylinder operation. Cylinder deactivation is more effective at low speeds, improving fuel economy by approximately 20 percent when driving at a constant 40km/h, and by approximately 5 percent at a constant 80km/h. Because the firing interval is doubled when running on two cylinders, the engine is more likely to cause vibration than when using all four cylinders. A centrifugal pendulum damper adopted in the torque converter for the six-speed SKYACTIV-DRIVE automatic transmission compensates for this. By generating counterforce that responds to fluctuations in engine torque, the centrifugal pendulum damper suppresses the transmission of unpleasant vibrations into the cabin.



Cylinder deactivation using a switchable HLA mechanism

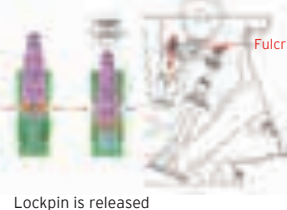
When running on four cylinders

A lockpin secures the HLA and the rocker arm uses it as the fulcrum upon which it moves to open and close the valve



When running on two cylinders

The lockpin is released, switching the fulcrum to the valve side so the HLA moves up and down instead of the valve



<https://www.youtube.com/watch?v=IJIVsXPEnC>

SKYACTIV-G 2.5 (with Cylinder Deactivation system)

Compression Ratio of **13.0 : 1**
Max. power: **143 kW (194ps)/6,000 rpm**
Max. torque: **258 Nm/4,000 rpm**
*Fuel Consumption: **7.2 L/100 km**
Vehicular Emissions Scheme (VES) Band: **C1**

SKYACTIV-G 2.0

Compression Ratio of **13.0 : 1**
Max. power: **121 kW (165ps)/6,000 rpm**
Max. torque: **213 Nm/4,000 rpm**
*Fuel Consumption: **7.0 L/100 km**
Vehicular Emissions Scheme (VES) Band: **B**

*Figures are based on average of urban and highway driving

SKYACTIV-BODY

Innovations in structure, construction and materials make CX-5 lighter, safer and more rigid. Straight structural members, a continuous framework and extensive use of high-tensile steel achieve the contradictory requirements of lighter weight and greater collision-resistance, particularly in the occupants' area. In addition, thorough measures to reduce noise and vibration allow stress-free conversation while driving.



SKYACTIV-CHASSIS

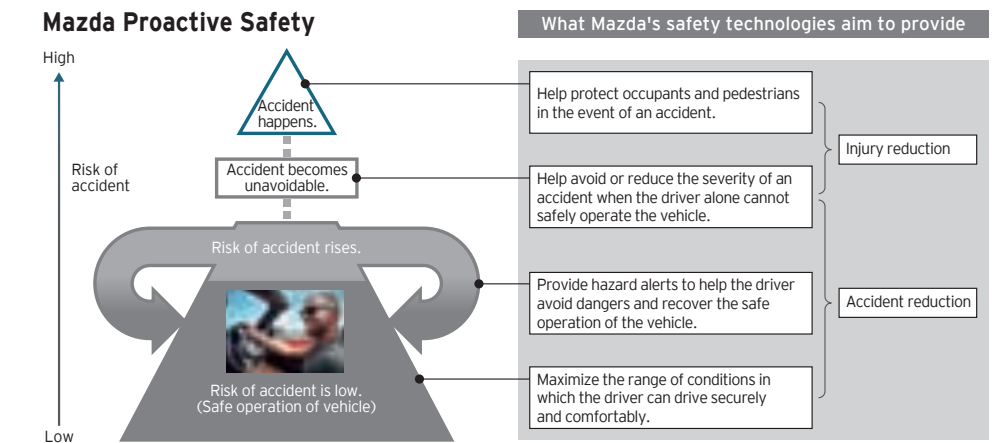
To deliver sporty *Jinba-ittai* driving, CX-5 features strut geometry at the front and a multi-link layout at the rear, specifically tuned for stability at high speeds and sharp, nimble response at low and mid-range speeds. Optimized tuning of the front suspension suppresses both the floating sensation experienced by the driver and unpleasant vibrations felt by all occupants caused by body roll during spirited driving. Electric Power Assist Steering provides natural, responsive operation with positive feedback, as well as pinpoint control through curves and during straight-line cruising, and features new rigid mounts that heighten its linearity and rigidity.

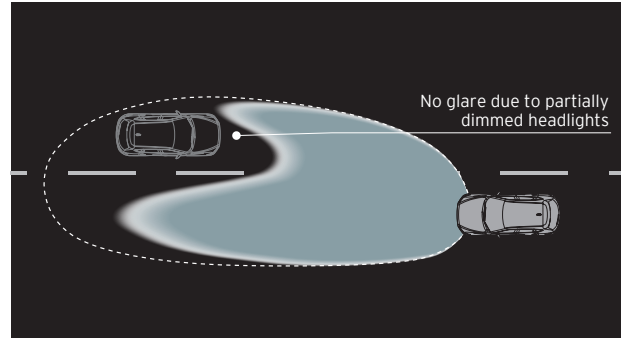


MAZDA CX-5 (2.5 MODEL)

**Human-centric innovation:
the key to safer, more secured driving**

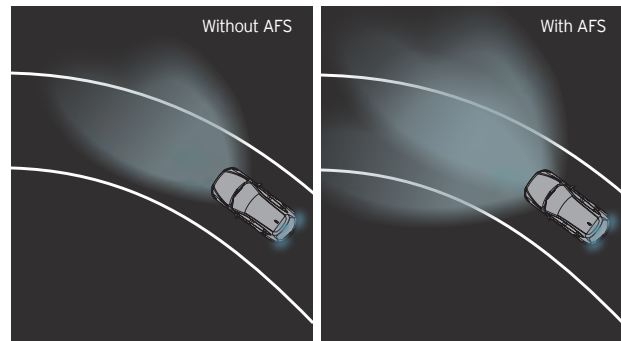
Mazda's Proactive Safety philosophy is firmly grounded in a belief in the driver's abilities, aiming to support safer driving while maintaining all the fun of the open road. Safer driving demands early recognition of potential hazards, good judgment and appropriate action, and Mazda works to support these essential functions so you can drive securely and with peace of mind despite changing driving conditions. First is an optimum driver environment with good visibility, well-positioned controls, easy-to-read instruments and minimal distractions, all enhanced by Mazda's further evolved recognition support. Next is i-ACTIVSENSE, a portfolio of active safety measures to incrementally warn you when a potentially dangerous situation is developing. In particular, the Advanced Smart City Brake Support (Advanced SCBS) system features a new camera that expands operating speed range for detecting pedestrians ahead, while the Adaptive LED Headlights (ALH) system is equipped with more powerful, precisely controlled LED arrays. Finally there is passive safety, designed to help protect occupants and minimize injuries if an accident should occur.





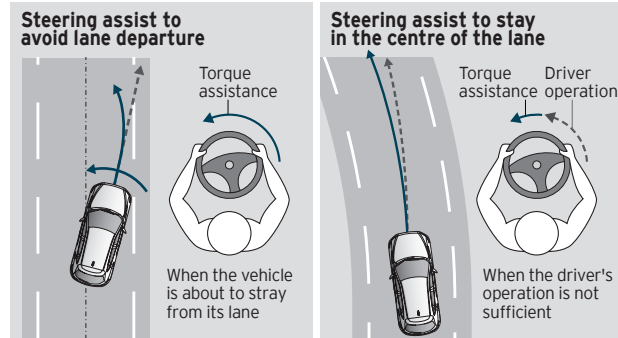
Adaptive LED Headlights (ALH)

ALH offers the driver greater support for recognizing potential hazards when driving at night. The system improves night visibility and helps the driver avoid hazardous situations by combining the use of a new 12-block array Glare-free High Beam (featuring an adjustable illumination range) and Wide-range Low Beam.



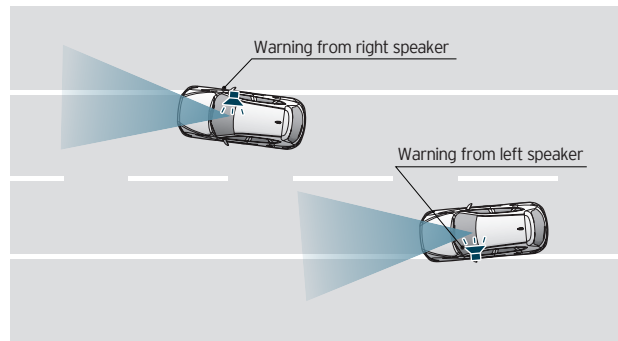
Adaptive Front-lighting System (AFS)

AFS promotes safer driving by allowing you to see further at intersections or around curves at night. Taking inputs from the steering angle and vehicle speed, AFS predicts the shape of the road and directs the headlamps' beams in the direction of travel, illuminating the path CX-5 will actually follow.



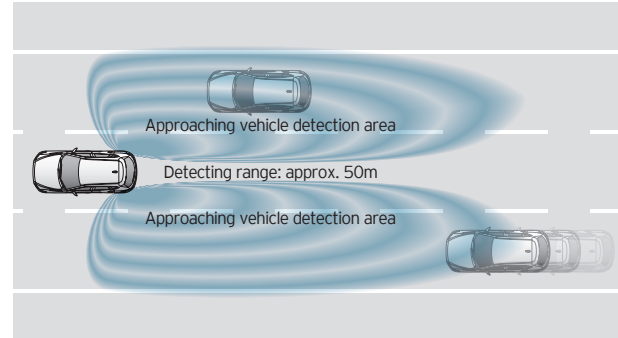
Lane-keep Assist System (LAS)

A forward sensing camera detects lane markings and assists the steering to keep you in lane. The system also alerts you when it judges an unintended lane departure is imminent by vibrating the steering wheel or with an audible alarm. When the system determines lane departure is intentional (use of turn signals, etc) steering assistance is cancelled and no warnings are given. The system operates at speeds above approximately 60km/h.



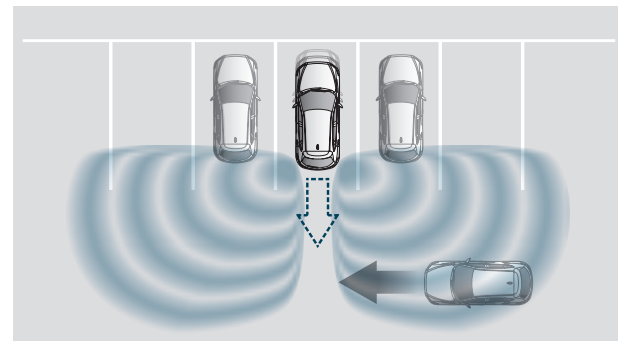
Lane Departure Warning System (LDWS)

LDWS senses lane markings on the road surface. When the system predicts departure from the lane it issues an audible warning similar to the noise a car makes when it runs onto a rumble strip to prompt timely steering corrections. The system assesses driver inputs such as use of the turn signals to weed out false alarms.



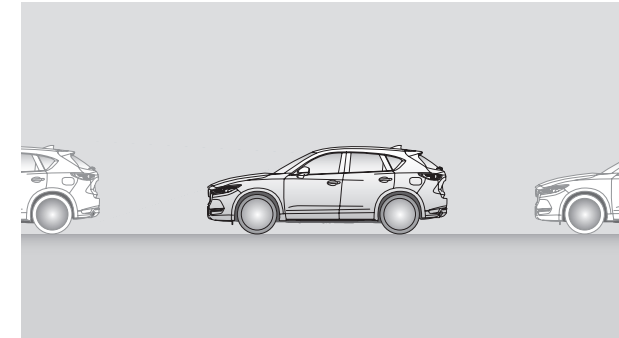
Blind Spot Monitoring (BSM)

BSM uses 24GHz quasi-milliwave radar sensors to detect vehicles in the blind spots behind and to the side, and using a turn signal while BSM detects a vehicle triggers visual and audio warnings.



Rear Cross Traffic Alert (RCTA)

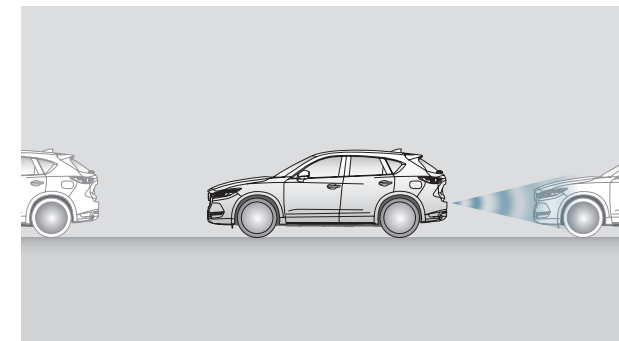
RCTA uses the same sensors as BSM to alert the driver when it detects vehicles approaching from either side during reversing operations. Warnings are given by a flashing indicator in the door mirror and a beep.



Advanced Smart City Brake Support (Advanced SCBS)

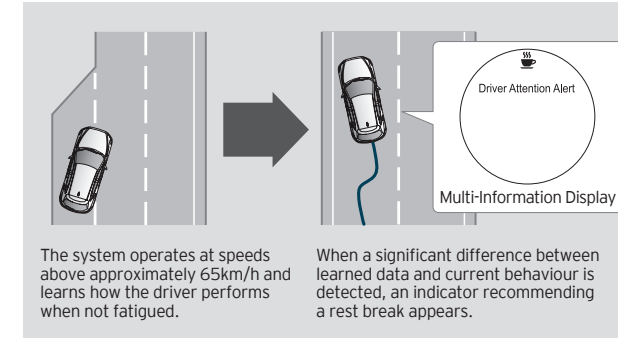
With the high-performance forward sensing camera, Advanced SCBS detects vehicles and pedestrians* in front of the vehicle and automatically applies the brakes to help avoid collisions and mitigate collision damage while driving between approximately 4 and 80km/h (sensing a vehicle ahead) or between approximately 10 and 80km/h (sensing a pedestrian).

*Detection of pedestrians and consequent automatic braking are not available in certain countries and regions.



Smart City Brake Support [Reverse] (SCBS R)

Ultrasonic sensors mounted on the rear bumper allow SCBS R to detect vehicles and obstacles behind when reversing at speeds between approximately 2 and 8km/h. If an object is detected, the system automatically applies the brakes to help mitigate collision damage.



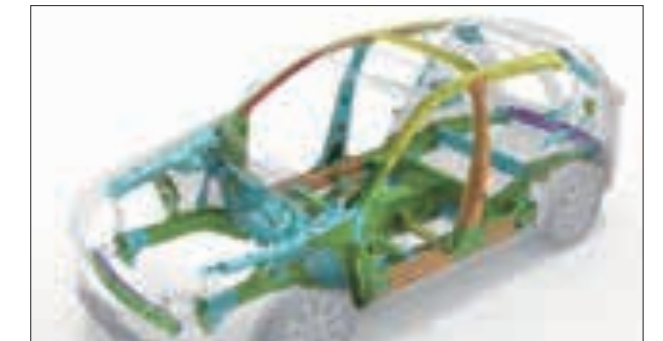
Driver Attention Alert (DAA)

DAA uses information such as steering wheel angle, vehicle speed, and output from the forward sensing camera to assess the driver's condition and help prevent accidents caused by fatigue or lowered alertness. The system monitors and compares current behaviour with learned data on how the driver performs when fresh, and suggests a rest break when a significant difference is detected.

Other safety measures



A full complement of airbags – front, front seat side, curtain – provide another layer of protection in depth against physical shock and injury in a collision.



The body provides excellent collision safety performance. Extensive use of ultra-high-tensile steel gives strength with low weight, while the framework absorbs and channels energy away from the cabin.

Notes: i-ACTIVSENSE safety features are not a substitute for safe and attentive driving. There are limitations to the range and detection of the systems. Availability of safety equipment/features varies according to country and model grade. Please consult our sales consultants for more information.



MAZDA CX-5 (2.5 MODEL)



Human-centric design: the key to communication

Human-centric design is the key to complete and intuitive communication between you and CX-5. As well as real-time communication with the world when you're on the road. It's all thanks to Mazda's latest iteration of the Human-Machine Interface (HMI) and MZD CONNECT system. HMI and its human-centric design philosophy now include even your driving position to further enhance the *Jinba-ittai* experience with a panoramic view of the road and all instruments and controls ideally placed to support you in safer, enjoyable driving.

HMI – control centred on you

Modern cars constantly present more and more information which can confuse, and even distract. So Mazda engineered its HMI entirely around you, to provide detailed information with minimal eye movements and stress. Controls, instruments, steering wheel and shift lever are all ideally placed in relation to the driver's seat, with the main instrument cluster and steering wheel – now featuring a new ergonomic shape to optimize grip comfort – directly centred on the driver, while the pedals are positioned symmetrically to fall naturally under the feet. Excellent visibility is assured thanks to A-pillars located rearward to offer a broader view of the road. CX-5 now boasts a full-colour Active Driving Display with enhanced definition, brightness and contrast to show key driving and navigation system information. It is available as either a head-up display projected onto the windscreen or as a display panel mounted just above the instrument cluster and just below your horizontal line of sight to keep you fully informed without the need to take your eyes off the road. The large, seven-inch centre display on the dash shows entertainment-related items and functions as a touchscreen when the car is stationary. In motion, the rotary commander provides

control. By rotating, pressing and toggling this knob, you can operate entertainment functions while keeping your body and your eyes in the normal driving position. Unlike a touchscreen, there's no need to look at the commander when operating it, minimizing visual distraction. The commander is surrounded by five buttons giving shortcuts to four common screens plus a back button.

MZD CONNECT keeps you in touch

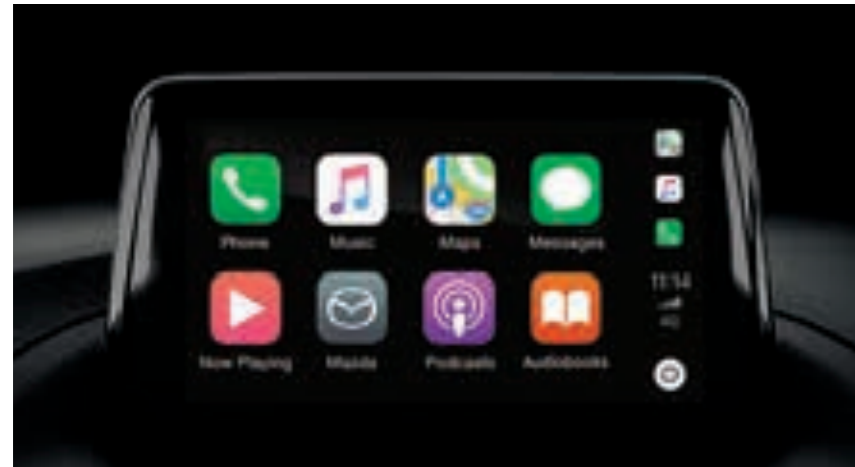
MZD CONNECT gives you versatile internet connection while on the road. It offers an extremely wide range of infotainment options when connected to your smartphone via Bluetooth®. The system's Audio feature lets you access multiple audio sources including AM/FM radio and mobile audio players. The Communication feature can read SMS messages aloud. The Navigation feature shows your current position on a map along with a route to your specified destination. System software is easily updated to give you ongoing access to the latest services without swapping out any hardware.



Note: Available functions of MZD CONNECT may vary according to the type of connected smartphone and its operating environment. Please consult our sales consultants for more information.

New Features

APPLE CARPLAY AND ANDROIDAUTO BUILT-IN



CarPlay is a smarter, safer way to use your phone in the car. It allows you to mirror the phone and display them directly on your car's built-in display. You can get directions, make calls, send and receive messages and listen to music, all in a way that allows you to stay focused on the road. Just connect your phone and go.

Works with Apple iOS 12 and Android 5.0. Third-party interface providers are solely responsible for their product functionality, and third-party terms and privacy statements apply.

Available only for models with Mazda Connect.



Optional Features

MAZDA CX-5 2.5 MODELS (BODY KIT IS OPTIONAL WITH ADDITIONAL COSTS)



FRONT AIR DAM

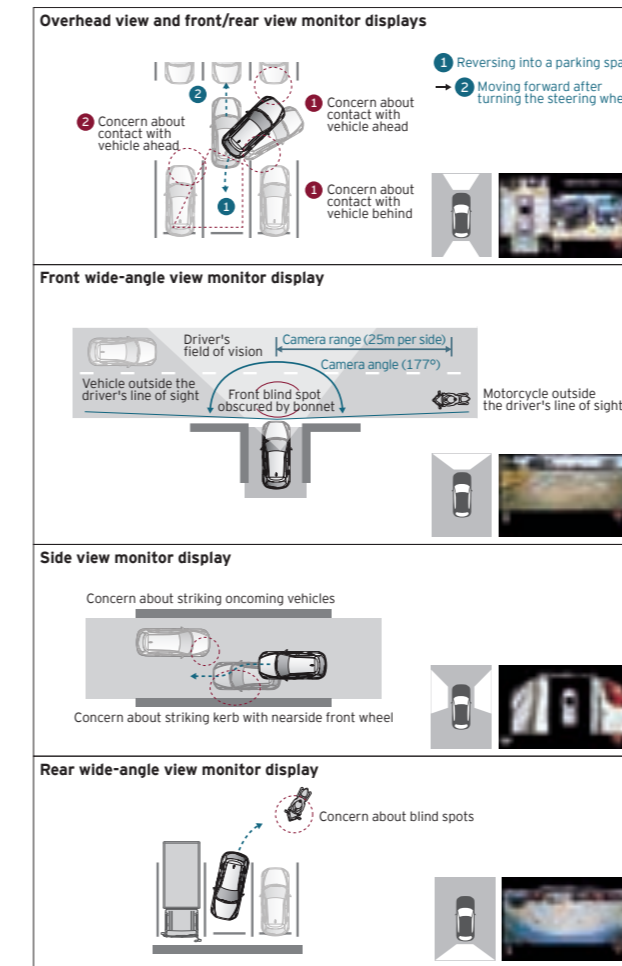


SIDE SKIRTS



REAR AIR DAM

Equipment



Newly adopted 360° View Monitor system features four cameras on the front, sides and rear of the vehicle to show the area around the car on a central display. Combined with alarm sounds triggered by eight parking sensors at the front and rear, the system helps you to avoid danger when pulling into or out of a garage, approaching T-shaped intersections or passing an oncoming car on a narrow road.



The climate-control system with full-auto air conditioner gives excellent heating/cooling performance with low energy consumption. Its control panel layout features a horizontal orientation to match the overall interior design.



The three-meter cluster features a seven-inch TFT LCD colour display in the centre. In addition to vehicle speed, it shows diversified vehicle information in a clear, easy-to-read manner near the centre of the driver's line of sight.



Newly designed 19-inch aluminium wheels for the 2.5 models, while 17-inch aluminium wheels are painted grey metallic. Both enhance CX-5's refined and elegant styling.



Newly adopted front-seat ventilation system draws hot and humid air away from areas where the occupant's body is in contact with the seat surface, providing a more comfortable driving environment. The system offers three-stage control over ventilation strength.

Exterior and interior colours

TAKUMI-NURI



Soul Red Crystal Metallic (46V)



Machine Grey Metallic (46G)

Paint-coat composition



Mazda's unique painting technology TAKUMI-NURI (TAKUMI: master craftsman, NURI: painting), with its unprecedented combination of colour, highlights, shade and depth, further emphasizes the sheer beauty and quality of the dynamic KODO design body shape. Now the CX-5 lineup includes two TAKUMI-NURI body colours: Machine Grey Metallic and the newly developed Soul Red Crystal Metallic. The bright highlights, pure depths and outstanding transparency of Soul Red Crystal Metallic deliver a powerful impression of emotionally charged energy, giving CX-5 a fresher, more impressive and refined appearance.



Eternal Blue Mica (45B)



Deep Crystal Blue Mica (42M)



Sonic Silver Metallic (45P)



Titanium Flash Mica (42S)

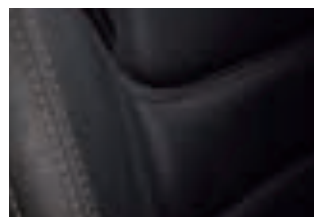


Jet Black Mica (41W)



Snowflake White Pearl Mica (25D)

2.0L Model



Leather, Black

2.5L Luxury Model



Leather, Pure white

2.5L Super Luxury Model



Nappa leather, Deep red

Note: ALL pictures shown in this brochure are for illustration purposes only. Specs and features may differ with each model variant. Please refer to our sales consultants or the specifications sheets for actual details.



1



2

1. Mazda produced its first automobile in 1931, and steadily increased the production volume of three-wheel vehicles after World War II.
2. June 23, 1991 saw the rotary-powered Mazda 787B beat the world at motor-racing's most prestigious endurance event, the 24 Hours of Le Mans.

Celebrating challenge, celebrating driving

The history of Mazda stretches back over 90 years – a history of meeting challenge head-on and winning. In 1931 Mazda became the first manufacturer of an entirely Japanese-made three-wheel vehicle, going on to cement its position as Japan's leading maker of three-wheeled trucks, a mainstay of short-haul cargo transportation at the time. At the end of World War II Mazda's home base of Hiroshima lay in ruins, yet Mazda took on the challenge of reconstruction and through innovation and dedication resumed export of three-wheeled trucks within just four years.

In 1961 Mazda accepted another major challenge: development and commercialization of the rotary engine. This unique design for the internal combustion engine presented a host of technological hurdles including development of new materials and the improvement of processing technology precision. And again Mazda engineers rose to the challenge, bringing fresh thinking to the table and succeeding where others had failed. The result was a series of rotary-engined vehicles beginning with the stunning 1967 Cosmo Sport, now a sought-after classic.

It was also the 60s that saw lightweight sports cars hit their peak. But through the course of the 70s, increasingly stringent safety standards and emissions controls caused their numbers to plummet. Once again, Mazda saw a challenge – reinventing the lightweight sports car to meet new safety and environmental standards while maintaining uniquely fun-to-drive characteristics. In 1989 the groundbreaking Mazda MX-5 debuted to instant acclaim and has stayed in production ever since, winning a place in the Guinness Book of Records as the world's best selling two-seater sports car.

Further underlining Mazda's sporting credentials came overall victory in the 1991 Le Mans 24 hour endurance race with the rotary engine 787B. This was the first – and only – time for a Japanese manufacturer to take the laurels in this prestigious event, amply demonstrating that not only do we set out to win, we do it with our own unique technology.

At Mazda, we have always blazed our own trail in our own way. Where others see limits, we see only a challenge as we create vehicles for people who love to celebrate driving.

Visit our showrooms for a test drive today.



Mazda Showroom & Service Centre : 5 Ubi Close, Singapore 408605. Sales Tel : 6395 8888 Sales Fax : 6846 1700 Service Tel : 6395 8899 Service Fax : 6744 9402
Mazda Showroom & Service Centre : 23 Leng Kee Road, Singapore 159095. Sales Tel : 6603 6118 Sales Fax : 6476 7073 Service Tel : 6603 6128 Service Fax : 6476 7417
Eurokars Aftersales Centre : 27A Tanjong Penjuru, Singapore 609042. Service Tel: 6331 0606 Service Fax: 6331 0620

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For leasing options, please contact us at leasing@eurokars.com.sg or 6331 0600 / 9363 5809