

*zoom-zoom*

BRAND-NEW

# *Mazda* *CX-8 DIESEL* PRESS KIT



June 2018 | Australia







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# MESSAGE FROM THE MAZDA

## MAZDA'S LATEST THREE-ROW CROSSOVER SUV OFFERS CUSTOMERS AN EXCITING NEW ALTERNATIVE

Mazda wants drivers and passengers alike to enjoy spending time with their cars in all areas of their lives.

We developed the latest edition to our new-generation line-up, the Mazda CX-8 three-row crossover SUV, with a desire to offer a new value and a new alternative for customers who need extra space or people-moving capacity.

We introduced the Mazda CX-5 in 2012 as the first model to feature KODO design and the full range of SKYACTIV TECHNOLOGY. These innovations were then applied throughout the line-up, starting with the Mazda6, Mazda3, Mazda2, and so on.

The resulting "new-generation" models have been praised by auto critics and customers alike for their dynamic designs, *Jinba-Ittai* driving performance, human-centred approach to functionality and high-quality craftsmanship.

The Brand-New Mazda CX-8 Diesel aims to blend the functionality of three-row seating capacity with an impressive design and dynamic performance worthy of its status.

Whether spending precious time with family or friends or enjoying an outing on one's own, the Brand-New Mazda CX-8 Diesel aims to provide great value, regardless of the driving scene.

We strove to create a design with a premium feel and a look that is timeless

and one that will continue to resonate with and excite owners for many years. Every effort was made to achieve both a dignified air and a level of quality sure to satisfy customers who seek authenticity. Colours and materials were carefully selected for the interior, including wood trim and nappa leather seats.

In terms of dynamic performance, our development aimed for a superior driving range and performance that makes you want to keep on driving. To this end, we adopted an advanced version of the SKYACTIV-D clean diesel engine with enhanced dynamic and environmental performance.

As a result, the Brand-New Mazda CX-8 Diesel combines excellent fuel economy and smooth, powerful performance that defies the image of a three-row vehicle.

While the car is no wider than the CX-5, clever packaging enables space for up to seven people and even adults can sit comfortably in the third row.

# CX-8 PROGRAM MANAGER

Equipment and features throughout the cabin have been meticulously designed for maximum comfort and convenience.

The Mazda Proactive Safety philosophy ensures safety fundamentals, including a human-centred driving position and excellent visibility. All model grades come with i-ACTIVSENSE advanced safety technologies designed to support the driver's awareness and decision making.

Mazda's most recent safety technologies aim to enhance safety while helping drivers relax and enjoy the drive. Examples include an available 360° View Monitor that allows drivers to check their surroundings in tight quarters and an Active Driving Display that projects important driving information onto the windscreen.

The Brand-New Mazda CX-8 Diesel is designed to satisfy the needs of customers who require more space or greater seating capacity as well as those who desire higher quality and greater comfort on the road.

The new model features Mazda's distinctive dynamic performance, design and quality feel. Nothing could please the development team more than if the Brand-New Mazda CX-8 Diesel brings customers joy and true pride of ownership.



**Hideki Matsuoka**  
MAZDA CX-8 PROGRAM MANAGER



# PRODUCT VALUES

The Brand-New Mazda CX-8 Diesel is built to deliver the latest advances in design, technology and safety.

The Brand-New Mazda CX-8 Diesel has been designed and built to bring greater pleasure and practicality to the diverse lifestyles of Mazda customers, satisfying not only the needs of those who demand more space or require greater seating capacity but also those who desire higher quality and greater driving comfort.

Mazda's design team initiated three key product values for the car in its conceptual, planning and manufacturing stages:

## 1. Timeless beauty and design quality that will please and excite owners every day

- ▷ The exterior design pursues beauty and elegance
- ▷ The interior envelops every occupant in pleasing, high-quality comfort
- ▷ Authentic materials and colours co-ordinate, creating an atmosphere that improves with age

## 2. A long-distance all-rounder to broaden driving horizons

- ▷ A pleasant driving feel and excellent cruising range makes drivers feel as if they could drive forever
- ▷ Impressive ground clearance and reassuring AWD performance that gives drivers confidence on all road surfaces

- ▷ A ride so comfortable that occupants will experience fatigue-free travel, even on long journeys

- ▷ A towing capability that opens-up new possibilities for people with active lifestyles and practical needs

## 3. A comfortable, reassuring cabin environment that ensures each outing is a pleasure for every occupant

- ▷ Pleasing cabin space which offers comfortable and secure seating for passengers in all three rows
- ▷ Cabin flexibility means owners can choose between using the third-row seating or the flexible cargo space, depending on how they plan to spend their day
- ▷ A comprehensive range of advanced safety technologies supports a pleasant driving experience







# AT A GLANCE

- ▶ Brand-New Mazda CX-8 Diesel is the perfect car to grow into; offering the versatility of seven-seats, stylish exterior and interior, strong performance and efficiency
- ▶ Brand-New Mazda CX-8 Diesel is Mazda Australia's diesel-only seven-seat SUV
- ▶ Brand-New Mazda CX-8 Diesel is available in three model grades; Sport FWD, Sport AWD and Asaki AWD
- ▶ For Australia, Brand-New Mazda CX-8 Diesel's powertrain comprises the acclaimed SKYACTIV-D 2.2 twin turbo-diesel engine and SKYACTIV-Drive six-speed automatic transmission. This latest-generation of the engine has Rapid Multi-stage Combustion for maximum efficiency and multi-hole piezo fuel-injectors. It also debuts a new piston shape
- ▶ First introduced to Australia in the updated CX-5 in 2018, the more advanced SKYACTIV-D engine includes a coolant control system, variable geometry turbocharger and a compression ratio of 14.4:1. Power and torque have been boosted to 140kW and 450Nm respectively from the 129kW and 420Nm of the previous-generation engine
- ▶ Brand-New Mazda CX-8 Diesel showcases the latest evolution of Mazda's 'KODO - Soul of Motion' design philosophy
- ▶ The all-wheel-drive system used for Brand-New Mazda CX-8 Diesel is i-Activ AWD, an on-demand system using 27 sensors to monitor driver actions and road conditions 200 times per second. Designed to respond to constantly changing road conditions and deliver a consistent, confident driving experience, it gives added grip whenever it is needed

- ▶ Brand-New Mazda CX-8 Diesel offers a wide range of i-ACTIVSENSE active safety features as standard. Features include Traffic Sign Recognition, Intelligent Speed Assistance speed limiting, Blind Spot Monitoring, Lane-keep Assist and Lane Departure Warning systems, Mazda Radar Cruise Control with Stop & Go function, Smart City Brake Support and Smart Brake Support
- ▶ Dimensionally, Brand-New Mazda CX-8 Diesel shares its wheelbase with the bigger Mazda CX-9 SUV and its width with the smaller Mazda CX-5 SUV. It is 175mm shorter than CX-9 and 350mm longer than CX-5
- ▶ Brand-New Mazda CX-8 Diesel has been built using Mazda's latest SKYACTIV-Chassis technology which defines the vehicle's driving pleasure, while promoting occupant comfort
- ▶ Brand-New Mazda CX-8 Diesel is available in seven exterior colours: Snowflake White Pearl Mica, Machine Grey Metallic, Soul Red Crystal Metallic, Sonic Silver Metallic, Titanium Flash Mica, Deep Crystal Blue Mica, and Jet Black Mica, with a choice of three trims: black fabric on Sport, Pure White nappa leather or Dark Russet nappa leather on Asaki

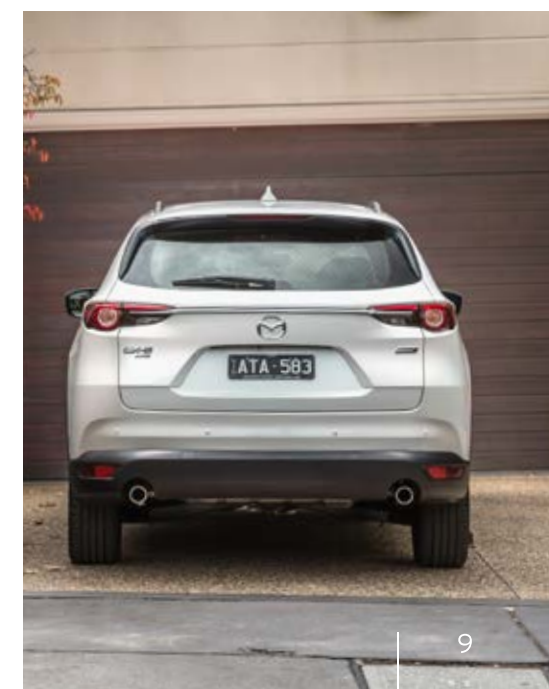
## SALES AND MODEL MIX

- ▶ Mazda Australia anticipates Brand-New Mazda CX-8 to amass 3,000 retails in its first year

GRADE	FIRST YEAR
Sport (FWD)	60%
Sport (AWD)	10%
Asaki (AWD)	30%

DRIVETRAIN	FIRST YEAR
FWD	60%
AWD	40%

*\*Sales and model mix is estimated at June 2018.*



## MAZDA CX-8 SPORT

### Powertrain

2.2 litre in-line 4-cylinder 16 valve DOHC intercooled twin turbo diesel (SKYACTIV-D) engine with i-stop

- ▷ Drivetrain: FWD or AWD
- ▷ Fuel consumption (combined): 5.7L/100km (FWD) or 6.0L/100km (AWD)
- ▷ Max power: 140kW @ 4,500rpm
- ▷ Max torque: 450Nm @ 2,000rpm
- ▷ Transmission: 6-speed SKYACTIV-Drive automatic
- ▷ 0-100km/h: 9.2s (FWD) or 9.6s (AWD)

### Sport Features

- ▷ 17-inch alloy wheels in Gun Metallic finish with 225/65 tyres
- ▷ Headlamps (LED) with auto on/off function
- ▷ Power mirrors (body coloured with heating and auto-folding function)
- ▷ Wipers front 2-speed with rain-sensing function
- ▷ Active Driving Display
- ▷ Air-conditioning (three-zone climate control) with independent rear control
- ▷ Rear-view mirror with auto dimming function
- ▷ Rear seats with: Centre armrest storage and USB charging ports (2nd row)
- ▷ Seat trim: black cloth
- ▷ 7-inch touchscreen display (MZD Connect)

- ▷ Audio system with AM/FM tuner, Bluetooth® capability, Digital radio (DAB+) and 6 speakers
- ▷ Satellite navigation
- ▷ Blind Spot Monitoring (BSM)
- ▷ High Beam Control (HBC)
- ▷ Intelligent Speed Assistance (ISA)
- ▷ Lane-keep Assist System (LAS)
- ▷ Lane Departure Warning (LDW)
- ▷ Mazda Radar Cruise Control (MRCC) with Stop & Go function
- ▷ Parking sensors (Rear)
- ▷ Rear Cross Traffic Alert (RCTA)
- ▷ Reverse camera
- ▷ Smart City Brake Support [Forward/Reverse] (SCBS F/R)
- ▷ Traffic Sign Recognition (TSR)

## MAZDA CX-8 ASAKI

### Powertrain

2.2 litre in-line 4-cylinder 16 valve DOHC intercooled twin turbo diesel (SKYACTIV-D) engine with i-stop

- ▷ Drivetrain: AWD
- ▷ Fuel consumption (combined): 6.0L/100km (AWD)
- ▷ Max power: 140kW @ 4,500rpm
- ▷ Max torque: 450Nm @ 2,000rpm
- ▷ Transmission: 6-speed SKYACTIV-Drive automatic
- ▷ 0-100km/h: 9.6s (AWD)

### Asaki Features

#### As per Sport, plus:

- ▷ 19-inch alloy wheels in Bright Silver finish with 225/55 tyres
- ▷ Daytime running lamps (LED)
- ▷ Front fog-lamps (LED)
- ▷ Remote-operated power tailgate (open/close)

- ▷ Heated steering wheel function
- ▷ Front seats with: 2-position memory function (driver), 6-way power adjustment (passenger), 10-way adjustment (driver) and heating function
- ▷ Rear seats with: Heating function (2nd row outer)
- ▷ Rear door window sunshade
- ▷ Seat trim: Dark Russet or Pure White nappa leather
- ▷ Premium Bose® 273 watt amplifier and 10 speakers (including subwoofer)
- ▷ Real wood door and dashboard trim inserts
- ▷ 360° View Monitor
- ▷ Parking sensors (front)
- ▷ Adaptive LED Headlamps (ALH)
- ▷ Advanced keyless entry







## DESIGN

**A UNIQUE SUV DESIGN BORN OF MAZDA'S MATURING KODO DESIGN LANGUAGE**

For Brand-New Mazda CX-8 Diesel's design, Mazda's development team strove to create a look that was both timeless and edgy with the ultimate aim of delivering ageless beauty and a premium feel in a package that will continue to excite owners and enhance their driving experience for years to come.

The design team created a high-quality look and feel through the use of premium materials, selecting real wood trim for its warmth and nappa leather seats for their soft, smooth touch.

A clear departure from the conventional approach of simply offering a larger, more spacious and more luxurious package, Mazda has defined a distinct identity for the SUV.

Embracing a more mature expression of Mazda's KODO design language, Brand-New Mazda CX-8 Diesel combines real driving pleasure with a strong feel of quality and comfort, producing a unique SUV design that holds true to the Mazda brand.

In every detail, the Brand-New Mazda CX-8 Diesel is a design that is entirely worthy of its position in Mazda's impressive four-tier Australian SUV family.

**EXTERIOR DESIGN PURSUES BEAUTY AND ELEGANCE**

Mazda's design team concentrated its efforts on Brand-New Mazda CX-8 Diesel's overall proportions, form and fine detail to achieve an exterior design that would fit seamlessly within Mazda's SUV line-up, at the same time evolving Mazda's signature KODO design language.

By focusing on a flowing, horizontal styling theme for the overall look, the Brand-New Mazda CX-8 Diesel combines a strong, powerful form with a look of maturity and dignity, but with strong overtones of youthfulness.

**BOLD PROPORTIONS SUGGEST THE PLEASURE OF DYNAMIC PERFORMANCE**

Particular attention went into creating a spacious cabin with generous dimensions and an overall appearance that makes the

Brand-New Mazda CX-8 Diesel stand-out on the road.

The stylish lines of the cabin's glasshouse contrasts sharply with the body's imposing profile, giving the Brand-New Mazda CX-8 Diesel beautiful proportions that hint strongly at the pleasure of the dynamic performance on offer.

**EMOTIVE, ELEGANT FORM**

Brand-New Mazda CX-8 Diesel's overall form reflects the simplicity and dynamic movement that is the result of the minimalist approach applied to the body's side surfaces, creating an elegant form that expresses constantly changing light reflections and gives the car a warm, inviting look.

At the same time, the muscular, bulging fenders and strongly flared shoulders express Brand-New Mazda CX-8 Diesel's innate SUV power and toughness.

**DETAILS THAT SKILFULLY BLEND BEAUTY AND FUNCTION**

The carefully designed chrome-plated mouldings around the side windows, are used as external finishing touches, which express a dignified tension within the car's beautifully balanced proportions and elegant form.

## EXTERIOR DESIGN HIGHLIGHTS

### Brand-New Mazda CX-8 Diesel's broad, bold face

Brand-New Mazda CX-8 Diesel's width is emphasised by its face and highlighted by the low position and sharp design of the headlamps and the spread of the signature wings.

The radiator grille design adopts horizontal silver bars and deeply chiselled forms that flow horizontally across the face, establishing a bold look that is strong-willed and calm.

### Side windows

Piano black garnishes on the B and C-pillars, and chrome-plated mouldings that outline the side windows, enhance the quality appearance.

A subtle curve of the roofline above the C-pillar expresses the elegance of movement as it flows from front to rear.

### Roof rails

Roof rails featuring a look of fine quality, as though they have been sculpted from a single piece of metal, are standard equipment on all grades.

They also serve to highlight the flowing form and beauty partially accentuated by the Brand-New Mazda CX-8 Diesel's impressively long wheelbase.

### Rear combination lamps and signature garnish

The view from the rear continues the design theme that gives all the major styling elements a horizontal flow, which expresses a look of timeless beauty.

The rear combination lamps have a three-dimensional appearance while the thin signature garnish running between the lamps adds a touch of craftsmanship and quality.

## INTERIOR DESIGN DEVOTED TO A QUALITY LOOK AND FEEL

Interior design efforts for the Brand-New Mazda CX-8 Diesel concentrated on creating a cosy yet roomy cabin with comfortable space for all occupants.

A series of studies were conducted to select the most beautiful interior forms along with the best material and colour matches.

These led to the selection of real wood panels and nappa leather materials that enhance the high-quality atmosphere inside the cabin.

## CABIN SPACE DESIGNED FOR RELAXING COMFORT

As it is with all Mazda cars, the cockpit wraps snugly around the driver with all major controls, switches and gauges arrayed in perfect symmetry and with a horizontal layout flowing outwards from the centre of the instrument panel through to the door trim.

As it comfortably encases the driver, this layout also expresses a sense of roominess and width. A black headliner



and a console design featuring the Brand-New Mazda CX-8 Diesel's unique application of materials and colours, produces a relaxing, comfortable atmosphere within the cabin.

The Brand-New Mazda CX-8 Diesel also features rich, chrome-plated surfaces throughout the interior. Satin chrome, reminiscent of tooled metal, conveys an image of SUV toughness while bright chrome heightens the overall air of elegance. Blending these two finishes adds an extra layer of depth to the cabin's relaxing atmosphere.

## DESIGN HIGHLIGHTS

### Real wood panels blend warmth with modern style

Real wood is used on the Asaki's instrument panel and decorative door trim panels. The warmth of this natural material is combined with a lamination process to add a modern twist that expresses a sophisticated and premium feel befitting the top grade model.

The Sport model trim uses a silver hairline finish for the look and feel of real metal.

### The delightful touch of nappa leather and high-quality fabric for the seats

Depending on the model grade, the seats are trimmed in either fabric or nappa leather, chosen for its soft, smooth touch and quality feel.

Nappa leather feels better to the touch and more closely fits the shape of the seats, enhancing the overall quality feel.

Fabric-trimmed seats adopt a newly-developed material featuring a hairline finish in which bright strands of glossy material are woven-in with matte-finish strands, creating an expression of quality with a touch of elegance.

### Floor console design emphasises a sense of class

The wide, voluminous floor console houses a piano black shift panel surrounded by a sculptured U-shaped decorative trim with a metallic finish. The overall design combines with a relatively tall layout to bring a look of depth and presence befitting the Brand-New Mazda CX-8 Diesel's overall design.





# PACKAGING

## HUMAN-CENTRIC PACKAGING IS DESIGNED FOR QUALITY AND COMFORT

Based on the human-centred design philosophy that stands as the foundation of Mazda’s car development, a concerted effort was made to create a cabin environment providing occupants of all three seating rows with a refined, comfortable ride.

As such, an ergonomic seat design and a roomy environment allowing each occupant to assume a comfortable, reassuring posture were mandatory starting points.

In addition, the packaging provides easy entry and exit, along with flexible storage and luggage space.

Development was particularly focused on making the third row as practical as possible.

The result is a sophisticated and comfortable cabin space that can be enjoyed by all occupants on long drives, regardless of where they sit.

## EASY-TO-HANDLE BODY SIZE

Even while delivering the ample cabin space expected of a three-row SUV, the CX-8’s overall width and height measurements are close to those of the CX-5 but giving it a body size smaller than the CX-9, making it nimbler when it comes to handling. The rear bumper and tailgate are also designed to take up less room behind the vehicle when the tailgate is raised.

## CABIN SPACE DESIGNED FOR TOTAL COMFORT

Occupant space development was aimed squarely at making full use of the available space and creating an environment allowing each passenger to sit with a comfortable, natural posture for the full enjoyment of each and every drive.

The goal was a design that allows a person of any size to find an ideal driving position or to be comfortable in the front row passenger’s seat, offer roomy comfort - even for large adults - in the second row, and comfortably accommodate occupants up to 170 cm tall in the third row.

Meticulously building the Brand-New Mazda CX-8 Diesel to meet these criteria resulted in a cabin that is both spacious and comfortable, allowing all occupants to enjoy the longest drives.

CX-8, CX-9 and CX-5 Dimension Comparison

	CX-8	CX-9 (REF)	CX-5 (REF)
Overall length (mm)	4,900	5,075	4,550
Overall width (mm)	1,840	1,969	1,840
Overall height (mm)	1,720 - 1,725	1,747	1,675
Wheelbase (mm)	2,930	2,930	2,700
Front track (mm)	1,596	1,663	1,585 - 1,595
Rear track (mm)	1,599	1,663	1,585 - 1,595
Minimum turning radius (m)	5.8	5.9	5.5
Front overhang (mm)	950	1,032	950
Rear overhang (mm)	1,020	1,113	900



## IDEAL DRIVING POSITION

The front-row seats are designed in line with Mazda's human-centred design philosophy and enable occupants to adopt a natural seating posture that maintains the spine's ideal S-curve.

A symmetrical layout for the steering wheel and pedal position places the driver centrally behind the steering wheel, which gives an ideal driving position for maintaining a stable, natural posture for operating the controls without wasted motion, while supporting driving performance and meeting driver needs.

## 60:40 SPLIT/FOLD SEATS

The second-row seats have been ergonomically designed for comfortable seating and offer 120mm of fore-aft adjustment in 10mm increments to meet every need while reclining between 22-degrees and 30-degrees from vertical and folding forward for easy third row seat access.

Mazda's seat design enables the left and right seat cushions to firmly support the occupants' pelvic region and the armrest between them folds-up into the centre seatback to accommodate a seventh passenger.

Folding down the second and third-row seats creates a large, flat space for luggage, sporting or hobby equipment, or any large or bulky items that need to be carried.

Such touches mean the Brand-New Mazda CX-8 Diesel readily responds to the needs of those who lead an active lifestyle,

need to transport up to seven people, carry large outdoor items or move people and luggage in the most convenient way.

The Brand-New Mazda CX-8 Diesel Asaki is also equipped with seat heaters for the second row, operated by a switch located at the rear of the centre console.

## BRAND-NEW MAZDA CX-8 DIESEL'S THIRD ROW ENABLES A NATURAL SEATING POSTURE

In line with Mazda's human-centred design approach, ergonomics dictated the height of the third-row seat cushion. As a result, occupants up to 170 cm tall can find a natural and comfortable seating position, with a space created beneath the second-row seats to accommodate rear seat occupants' feet.

## EXCELLENT CABIN ENTRY AND EXIT

Brand-New Mazda CX-8 Diesel's rear doors open out to an impressive 80-degrees from the body for added convenience when loading or unloading large items and when fitting, removing or adjusting a child seat or baby capsule.

To maximise ease of third-row entry and exit, the door has been made slightly wider, increasing the amount of available space when it is fully opened. In addition, the door trim and door panel shapes have been designed for easier exit and entry, even when the door is not fully opened.

Depressions in the front portions of the third-row armrests and lower sections

of the C-pillars are easy to grasp and make entering the cabin and the third row easier.

Pulling the walk-in lever mounted high on either the left or right second-row seat back folds the back rest down and slides the seat forward, creating extra space for easier third row entry and exit and, together with the upright orientation of the vehicle's C-pillars, enables occupants to get in and out without having to twist or bend their bodies.

## CABIN STORAGE SPACE

Storage compartments suited to a variety of needs and uses are positioned throughout the cabin for maximum convenience and ease of use for passengers in all three seating rows.

Front-row occupants have easy access to a large console box with built-in USB ports, the second row features a centre armrest with built-in cup holders.

A storage compartment in the third row can hold a 500 ml bottle, as well as a smartphone and other small items.

## LUGGAGE SPACE

With all three seating rows in use and a full complement of seven passengers on-board, the Brand-New Mazda CX-8 Diesel still gives a generous 209 litres (VDA) of luggage space, enough to hold two golf bags.

There is also a sub-boot below the main boot floor with a large opening and a depth of 100 mm, offering 33 litres of underfloor storage space, which is especially useful for valuable or fragile items.

When the third-row seatback is folded away, the available luggage capacity increases to 742 litres (VDA), or enough to accommodate three large (67cm-long) suitcases<sup>1</sup>.

Folding down both the second and third-row seatbacks gives 1,727 litres (VDA) and creates a flat floor space large enough to hold two bicycles<sup>1</sup>.

The entire luggage area, including the sub-boot space, is covered in a hard-wearing, non-woven material which emphasises the spaciousness and neatness of the boot area while at the same time contributing to soundproofing and injury prevention.

A power-operated tailgate that automatically opens and closes at the touch of a switch is standard on the Asaki.

<sup>1</sup> Tested using average-sized representative samples. Some similar-sized items may not fit because of their shape or design.







## SPECIAL FEATURES

### FULLY-AUTOMATIC AIR-CONDITIONING FOR FRONT AND REAR SEATS

The fully automatic air-conditioning system for front-row seat occupants offers independent controls for both driver and passenger and features dual-level airflow circulating fresh air in the upper part of the cabin while recirculating air in the area around the occupants' feet.

The rear seats also have fully-automatic air-conditioning which allows second-row seat occupants to independently control the temperatures for the rear seats.

The vents for the rear air-conditioning system are located on the back of the centre console, mounted between the two front seats, and beneath the second-row seat.

### REAR-DOOR WINDOW BLINDS

The Asaki grade offers rolling-screen sunshades as standard, built into the upper sections of the rear door trims, above the windows, offering both sun protection and privacy.

The design of the blind means the shade effectively covers the entire side window and occupants need only to pull them down to set them in position.

### HEATED STEERING WHEEL

An integrated steering wheel heater is standard on the Asaki grade to quickly warm the rim's hand grip area for safer, more comfortable operation, especially in winter. The heater is manually switched on and off and, if left on, automatically switches off after 30 minutes.

### AUTOMATICALLY-FOLDING DOOR MIRRORS

Using the advanced keyless entry system the system automatically folds the external mirrors in towards the side windows when the doors are locked and unfolds them when the doors are unlocked.

This is not only convenient because it does not require a separate operation to control the door mirrors but, by keeping the mirrors deployed until after the driver exits the cabin, also contributes to greater safety when checking for vehicles approaching from the rear.

Because checking the door mirror position makes it easy to confirm the vehicle is locked, the system also contributes to greater security and peace of mind.

### VEHICLE SPEED-SENSITIVE AUTOMATIC DOOR LOCKING WITH IMPACT-SENSING UNLOCKING

The doors lock automatically when Brand-New Mazda CX-8 Diesel accelerates from a standing start and reaches a speed of 20km/h.

The system is a useful security measure and particularly effective as a safety system when children are being carried.

### HUMAN-CENTRIC DESIGN MAXIMISES DRIVER VISIBILITY BENEFITS

Brand-New Mazda CX-8 Diesel's development team strove to achieve the right design and structure for optimising aspects such as the space between the A-pillars and door mirrors and the A-pillar spread angle.

The result is clear forward vision that inspires greater driving confidence. For example, drivers can see children ahead of but at an angle to the car and also have maximum vision when it comes to twists, turns, tricky corners and tricky traffic situations.

Efforts made to maximise rearward visibility include the compact cabin design which gives a field of view that makes it easy to see vehicles approaching from behind.

Their efforts also include the attention given to the designs of the rear window and the retractable headrests used for the third seating row.

Such features enhance rearward visibility and contribute to easier recognition of vehicles and other objects behind the Brand-New Mazda CX-8 Diesel.



## MULTI-INFORMATION DISPLAY

The Multi-Information Display (MID) to the right of the Brand-New Mazda CX-8 Diesel's large instrument cluster was designed for easy, intuitive operation. It uses a 4.6-inch colour TFT LCD display and groups related information for quick and easy recognition. Indicators representing normal operation all use the same mellow green colour and the left-right symmetrical layout also helps enhance visual confirmation.

## ACTIVE DRIVING DISPLAY

The Brand-New Mazda CX-8 Diesel uses the same Active Driving Display employed for Mazda's highly-acclaimed CX-5 and CX-9 SUV models.

Active Driving Display projects information directly onto the windscreen in front of the driver.

The windscreen-projected display positions pertinent information higher and further away from drivers, reducing the need to vary their line of sight or adjust their focus.

In conjunction with the increased size of the display, the projected information is divided into upper and lower zones with driving environment information, including turn-by-turn navigation, routing and speed limit information, displayed in the upper section.

Vehicle status information, including current speed and advanced safety equipment information, is displayed in the lower section.

The result is data which is displayed more clearly and is quicker to read and easier to understand.

## CENTRAL DISPLAY

For its central display screen, Brand-New Mazda CX-8 Diesel adopts a new screen design using optical bonding to join the LCD and touch panels.

This new design and construction method effectively eliminates the layer of air between the two elements, reducing the refraction of light and suppressing irregular reflections on the screen.

Mounting the display independently on top of the dashboard reduces the amount of driver eye movement and, as a result, presents a clear image to the driver for easier and faster viewing, creating a safer driving environment.

## MZD CONNECT CAR CONNECTIVITY SYSTEM

MZD Connect makes it easier to access the internet and social networking services while in the car.

In addition to the Brand-New Mazda CX-8 Diesel's usual audio functions, it supports hands-free mobile phone operation, web-based communication functions and navigation functions using data from an SD card.

## BOSE® SOUND SYSTEM

(AUDIOPILOT™ + CENTREPOINT®2 + 10 SPEAKERS)

The top grade Asaki adopts a 10-speaker sound system that employs BOSE®'s own AUDIOPILOT™2 ambient noise compensation and Centrepoint®2 surround sound system.

The goal of the BOSE® and Mazda audio engineering teams was to deliver identical sound quality to occupants in all three seating rows and was achieved by increasing the size of the woofer's bass box from 8.0 litres (the capacity used for Mazda's CX-5 SUV) to 10.5 litres for the Brand-New Mazda CX-8 Diesel.

It reproduces a stronger, more powerful bass sound across all three rows and custom tuning of the system also delivers natural and clear sound to every seat in the cabin.

The woofer is positioned underneath the boot floor in the centre of the spare tyre and is covered in the same non-woven material as the rest of the cargo area, enhancing the quality feel of the sub-boot.

*Note: Standard equipment on the Asaki.*





# POWERTRAIN

## SMOOTH, POWERFUL PERFORMANCE DEFIES THE 'PEOPLE MOVER' IMAGE

The Brand-New Mazda CX-8 Diesel displays the kind of dynamic driving performance that inspires drivers to enjoy longer outings, travelling as far as they want in safety, free of fatigue and in complete comfort.

To achieve this goal, the Brand-New Mazda CX-8 Diesel fully embodies Mazda's *Jinba-Ittai* philosophy, the feeling of oneness between driver and vehicle, matching driving pleasure with human sensibilities for every occupant in all three seating rows.

### PERFORMANCE FEEL

Brand-New Mazda CX-8 Diesel is powered by Mazda's latest-generation SKYACTIV-D 2.2 engine, a four-cylinder, 2.2-litre, twin turbo-diesel using the latest design and engineering technologies to maximise vehicle performance while at the same time delivering environmental friendliness.

The upgraded engine is extremely responsive and completely reactive to driver input with powerful acceleration that gives greater depth to the overall driving experience for every occupant, whether in city or highway driving.

### ADVANCED SKYACTIV-D 2.2 CLEAN DIESEL ENGINE

Mazda's diesel engines leverage a variety of innovative technologies to deliver strong performance with outstanding torque and impressive power delivery while running quietly across its rev range and achieving a high level of environmental performance.

The updated SKYACTIV-D 2.2 used for the Brand-New Mazda CX-8 Diesel uses Mazda's Rapid Multi-stage Combustion process to increase combustion efficiency with the ideal combustion of the diesel fuel.



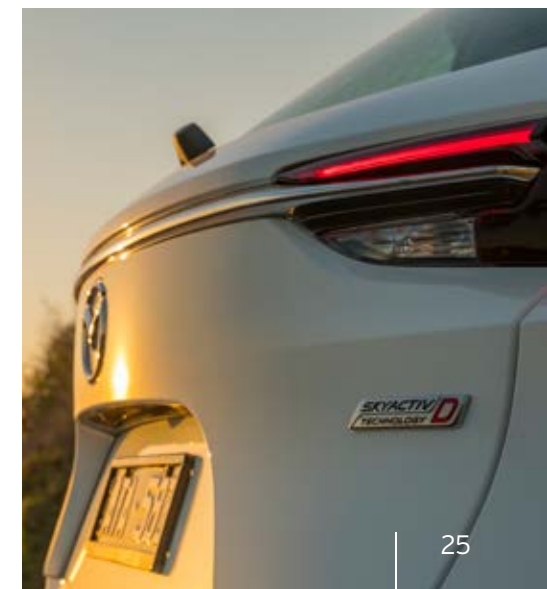
To achieve this goal, the updated engine employs innovative technologies, including a new piston shape and ultra-high-response multi-hole piezo injectors. Other new technologies used to both increase and enhance engine performance include a coolant control system and variable turbine geometry for the turbocharger, innovations that increase combustion and engine warm-up efficiency while at the same time improving real-world fuel economy.

Other refinements help raise the SKYACTIV-D 2.2 engine's maximum output from the 129kW of power from the previous generation engine to 140kW and boost maximum torque from 420Nm to 450Nm, adding to the engine's overall smoothness and tractability.

The updated engine's compression ratio has also been raised from 14:1 to 14.4:1. It is still a little higher than a conventional petrol engine but significantly lower than that of a comparable turbo-diesel, promoting engine quietness.

Other advanced mechanical technologies incorporated into the SKYACTIV-D 2.2 engine include Natural Sound Smoother and Natural Sound Frequency Control, both of which reduce diesel knocking.

The engine also has High-Precision DE Boost Control, which helps enhance the connection between car and driver by delivering strong engine responsiveness whenever drivers want it.







## NEW RAPID MULTI-STAGE COMBUSTION PROCESS FOR THE ADVANCED SKYACTIV-D 2.2

For the new SKYACTIV-D 2.2 engine, the goal for Mazda's engineering team was to achieve quieter, more efficient combustion along with a high level of environmental performance.

Development focused on the heat release rate and success was achieved using new technology that rapidly injects small bursts of fine fuel spray into the combustion chamber under high pressure.

Increasing combustion efficiency requires shortening the combustion period but sudden increases in heat and pressure have to be suppressed to reduce diesel knock noise, and improving environmental performance demands that air and fuel must be well mixed prior to combustion.

Searching for a breakthrough that could align these seemingly contradictory requirements, Mazda took a fresh look at the combustion process in the current

SKYACTIV-D and broke each combustion event into three stages.

Their efforts resulted in a new combustion process called Rapid Multi-stage Combustion, a process by which multiple injections of fuel (up to six in quick succession) are fired as the piston approaches top dead centre, generating a continuous fuel burn with a shorter combustion period.

High-pressure fuel injections ensure a fine mist that promotes thorough premixing of the fuel and air mixture for cleaner combustion and the familiar diesel engine 'knock' noise is reduced by precisely controlling the amount of fuel in each injection to avoid rapid changes in the heat release rate during initial combustion.

This new combustion method results in quieter and more economical performance during low-speed, low-load city driving but produces a linear engine sound that matches the degree of acceleration when the situation calls for extra performance.

## Redesigned egg-profile combustion chamber

The combustion chamber retains its basic cross-sectional, egg-shaped profile but the shape of its hollow has been adjusted to make it harder for fuel spray to stick to the sides. The new design reduces energy loss by minimising heat transfer to the chamber wall.

## Ultra-high-response multi-hole piezo injectors

Adopting 10-port, ultra-high-response injectors allows each injection to be divided into a greater number of discrete injection events while reducing the combustion period duration.

Integrated pressure sensors in each injector give more accurate fuel injection activation and work in combination with the new piston shape to make the combustion process more efficient.

## Coolant control system

This latest development of Mazda's SKYACTIV-D 2.2 diesel engine adopts a new Coolant Control Valve which helps prevent heat from escaping during the engine warm-up period by reducing to a trickle the flow of coolant around the combustion chamber.

Rapidly warming the area around the combustion chamber improves ignition, promotes fuel vaporisation and reduces oil viscosity to decrease mechanical resistance during the warm-up period.

The engine's faster warm-up also helps reduce fuel consumption, improving real-world fuel economy.



**Variable turbine geometry turbocharger**

The small and large turbines of the two-stage turbocharger operate independently or together, depending on engine speed. With the larger turbine now using variable geometry technology, it can deliver boost more rapidly at lower engine speeds.

The changes made to the turbocharger increase boost efficiency throughout the engine's operating range, increases maximum power and torque and delivers a smoother, more powerful, dynamic performance.

**Natural Sound Smoother**

Vibrations caused by the expansion and contraction of the connecting rod when combustion occurs create a 'diesel knock' noise at approximately 3.5kHz. The new Natural Sound Smoother uses a dynamic damper in each piston to absorb these vibrations, significantly reducing the diesel knock.

**Natural Sound Frequency Control**

Engine knock noises generated at or near the 1.3kHz, 1.7kHz and 2.5kHz frequencies are amplified by resonating parts.

By controlling injection and combustion timing in 0.1m/s increments and reducing the overlapping frequency valleys of the engine's combustion vibration force with the peak frequencies of resonating parts, it is possible to cancel-out the vibration of each, bringing an overall reduction in the diesel knock noise.

More precise control over the timing and the amount of fuel injected into the combustion chambers makes new CX-8's SKYACTIV-D 2.2 engine even more effective at accomplishing this.

**High-Precision DE Boost Control**

High-Precision DE Boost Control introduces more precise control of engine torque response by optimising boost pressure control and enabling finer adjustment of the amount of fuel injected.

The engine responds instantly and precisely to accelerator pedal operation under light load conditions and also delivers performance that matches the driver's intentions, strengthening the connection between car and driver.

		SKYACTIV-D 2.2
Displacement		2,191cc
Bore x stroke		86.0mm x 94.3mm
Compression ratio		14.4:1
Max. power		140kW @ 4,500rpm
Max. torque		450Nm @ 2,000rpm
Fuel efficiency	Combined	5.7L/100km (FWD) / 6.0L/100km (AWD)
	Extra urban	5.2L/100km (FWD) / 5.5L/100km (AWD)
	Urban	6.6L/100km (FWD) / 6.9L/100km (AWD)
Emission	CO <sub>2</sub> value (combined)	150g/km (FWD) / 158g/km (AWD)





## SKYACTIV-DRIVE SIX-SPEED AUTOMATIC TRANSMISSION

Mazda's SKYACTIV-Drive six-speed automatic transmission, used for the Brand-New Mazda CX-8 Diesel, achieves strong performance while delivering excellent fuel economy.

With a direct shift feel between the ratios similar to that of a manual transmission, the SKYACTIV-Drive transmission gives smooth, powerful acceleration whether it is needed for a quick getaway from a standing start or for a burst of acceleration whilst driving.

The transmission used for the SKYACTIV-D 2.2 engine in Brand-New Mazda CX-8 Diesel is the same as that used for the diesel-powered CX-5 and features a low-rigidity lock-up damper for a quieter ride as well as a wider lock-up range.

This further increases fuel efficiency in the Brand-New Mazda CX-8 Diesel's normal operating range.

## MAZDA'S i-ACTIV AWD SYSTEM

Mazda's i-ACTIV AWD predictive all-wheel-drive system, used for both the Sport and Asaki models, uses 27 individual sensors to monitor both driver actions and constantly changing driving conditions, to maximise grip and prevent front wheel slip.

The synthetic oil introduced for the transmission with the CX-5 SUV, maintains its low viscosity even in extremely cold temperatures and, coupled with new low-resistance ball bearings and other measures, reduces energy loss and

mechanical resistance while improving real-world fuel economy.

## SKYACTIV-VEHICLE DYNAMICS: NEW-GENERATION VEHICLE DYNAMICS CONTROL TECHNOLOGIES

SKYACTIV-Vehicle Dynamics is the name for Mazda's new-generation vehicle dynamics and control technologies which give integrated control over the SKYACTIV engine, transmission, chassis and body to enhance the car's *Jinba-Ittai* feel.

This combination of technology creates a strong connection between the driver and car that differentiates Mazda vehicles from all the others.

## G-VECTERING CONTROL (GVC) - TECHNOLOGY USING THE ENGINE TO ENHANCE CHASSIS PERFORMANCE

GVC is the first technology in Mazda's new SKYACTIV-Vehicle Dynamics series and works by adjusting engine torque in response to steering wheel action, delivering unified control over lateral and longitudinal acceleration forces (also known as G-forces), which were previously controlled separately.

It also optimises the vertical load on each wheel so in specific terms, GVC controls engine drive torque to generate deceleration G-force the instant the driver begins turning the steering wheel, thereby shifting load to the front wheels to enhance steering effectiveness and vehicle responsiveness.



When the driver maintains a constant steering angle through a corner, GVC immediately recovers engine drive torque and transfers the load, enhancing vehicle stability so the car feels as it would when being driven in a straight line.

This series of load transfers makes for smooth and efficient vehicle behaviour that meets with the driver's intentions while also enhancing the feeling of the tyres firmly gripping the road, instilling a sense of security and confidence.

G-Vectoring Control is particularly effective in SUVs because the relatively high centre of gravity is prone to generating high lateral forces.

It achieves high levels of both vehicle responsiveness and stability while also helping to reduce sideways movement during cornering, delivering a comfortable, stable ride for the vehicle occupants.



# COLOURS

## BODY COLOURS

Brand-New Mazda CX-8 Diesel's colour palette comprises seven body colours including Snowflake White Pearl Mica, Machine Grey Metallic, Soul Red Crystal Metallic, Sonic Silver Metallic, Titanium Flash Mica, Deep Crystal Blue Mica and Jet Black Mica.

## INTERIOR COLOURS

The Brand-New Mazda CX-8 Diesel is offered with a choice of three interior packages, depending on model grade.

The nappa leather trim for the Asaki can be ordered in either Pure White or the newly offered Dark Russet. The fabric trim used for Sport features a black base colour with dark russet accents.

### ► **Asaki: Dark Russet nappa leather interior**

The interior's black upper section and Dark Russet lower section combine to

create a look of warmth and relaxation. Using two different dark tones to distinguish the upper and lower sections of the cabin creates both a chic atmosphere and a roomy feel.

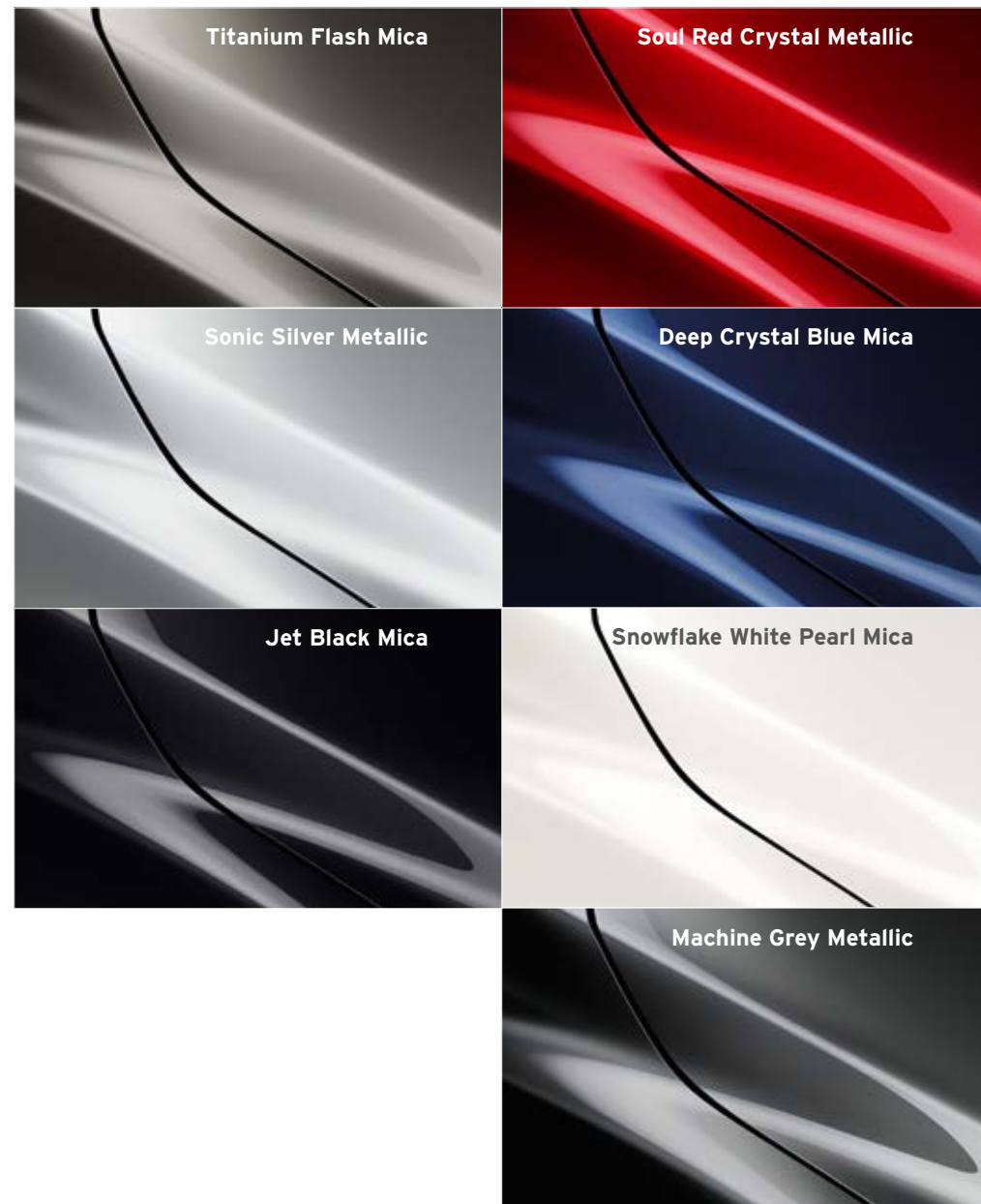
### ► **Asaki: Pure White nappa leather interior**

With black used in the upper section sitting on a base colour of Pure White in the lower section, this interior conveys an image of elegance and sophistication. The sharp contrast between colours establishes a look of fine quality while also highlighting the cabins' feeling of roominess.

### ► **Sport: Black fabric interior**

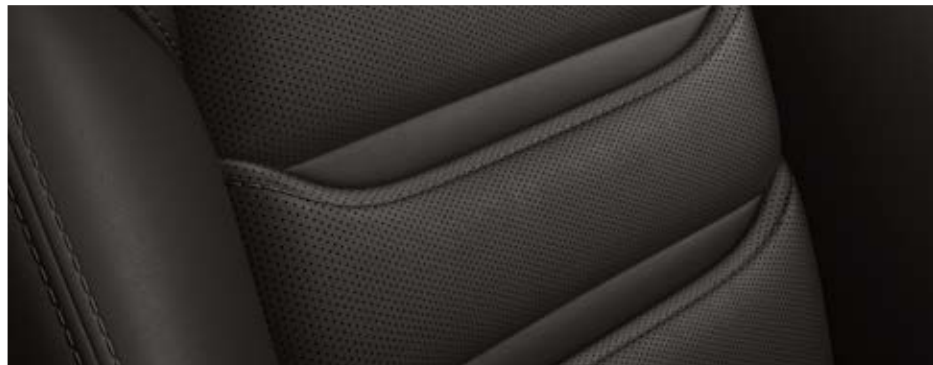
With black as the base colour throughout, dark russet accents on the armrests and elsewhere express a look of quality and mature playfulness.

A choice of seven contemporary colours:





Interior variations:



Dark Russet nappa leather



Pure White nappa leather



Black fabric





# BODY AND CHASSIS

## HIGH PERFORMANCE, LIGHTWEIGHT SKYACTIV-CHASSIS

Brand-New Mazda CX-8 Diesel rides on Mazda's SKYACTIV-Chassis which has been designed and engineered for comfort and highly reassuring handling, which meets the needs and demands of drivers.

Development for the Brand-New Mazda CX-8 Diesel concentrated on bringing a deeper level of comfort and driving pleasure for the driver and for passengers in all three seating rows.

By incorporating advanced technologies while enhancing basic performance, the Brand-New Mazda CX-8 Diesel's SKYACTIV-Chassis provides refined comfort courtesy of a highly-defined sense of stability.

## STEERING SYSTEM

In addition to using a steering column-mounted electric power steering system, Brand-New Mazda CX-8 Diesel also adopts harder bushings for the steering gear, resulting in impressively linear steering with the rigidity necessary to deliver responsive driving characteristics.

## SUSPENSION SYSTEM

To achieve a comfortable ride quality that makes every cabin occupant feel at one with the vehicle, the Brand-New Mazda CX-8 Diesel's suspension system uses fully-independent suspension with MacPherson front struts and rear multi-links.

Essentially the same basic suspension design as that of the larger CX-9, detail changes have been made to

suit the different characteristics of the smaller vehicle.

These changes include spring and damping characteristics which have been specifically tuned for the Brand-New Mazda CX-8 Diesel and new rebound springs which are used on the front dampers to suppress roll characteristics that could cause the inner front wheel to lift during extreme cornering.

This attention to detail has created a suspension with progressive compression and rebound characteristics which deliver composed vehicle behaviour, a smooth ride free of unexpected rocking or swaying, sure grip and stable straight-line performance whether accelerating or braking.

## BRAKING SYSTEM

Brand-New Mazda CX-8 Diesel's brake system comprises 320mm diameter ventilated discs at the front and 325mm diameter solid rear discs. Combined with a large brake master cylinder, they are highly effective, delivering strong braking with excellent control.

The system is designed for progressive braking, maximising comfort for all cabin occupants.

An Electronic Parking Brake (EPB) is also included as standard equipment on all grades. At one press of a switch the EPB delivers all the braking power needed to park safely.

For added convenience when driving in stop-and-go traffic or in traffic jams, all grades are also equipped with Mazda's Auto-hold function, which keeps the car

stopped even after the driver releases the brake pedal.

The brakes are released once the accelerator pedal is depressed, making for a natural feeling to starting off again. Drivers can turn this function on or off using a centre console-mounted switch.

## LIGHTWEIGHT, HIGHLY-RIGID, SKYACTIV-BODY

Mazda's SKYACTIV-Body achieves high levels of performance in three seemingly contradictory areas: collision safety, light body weight and rigidity.

The Brand-New Mazda CX-8 Diesel builds on the inherent rigidity of the SKYACTIV-Body, further increasing its strength by adding appropriate reinforcements in optimum locations.

Examples include the introduction of large gussets at the base of each A-pillar and the use of high-rigidity blown material. In addition, the use of lightweight materials including 1,180MPa ultra-high-tensile steel has been adopted on the A-Pillars to help minimise any weight increases while effectively enhancing overall body strength.

To strengthen the body's solid ring structure, Brand-New Mazda CX-8 Diesel is the first Mazda model to use a forked design at the base of the C-pillars, a structural innovation which makes it possible to retain the SKYACTIV-Body's characteristic continuity from the damper tops through to the C-pillars without compromising the design or integrity of the internal framework.





This structure not only contributes to greater rigidity but also helps protect third-row occupants in the event of a rear-end collision. It also contributes to improving overall ride quietness.

### NVH PERFORMANCE

As a three-row crossover, one goal for the Brand-New Mazda CX-8 Diesel was to have a quiet cabin environment giving occupants in all three seating rows the ability to enjoy relaxed conversation without the need for raised voices or shouting.

The development team tapped into the knowledge acquired through decades of car building and adopted a number of unique measures specifically for the Brand-New Mazda CX-8 Diesel.

The result is an outstandingly quiet ride free of transmitted road noise that is particularly appreciated at highway speeds.

### ROAD NOISE REDUCTION

Brand-New Mazda CX-8 Diesel suspension engineers implemented a number of measures to finely control suspension resonance, including adding dynamic dampers to the front struts to minimise the amount of vibration transmitted from the road surface to the body.

Vibration-dampening material was also added to the rear fender panels to help suppress vibrations in the rear that would otherwise be a source of noise for third-row passengers.

### REDUCED WIND NOISE

Measures implemented to reduce wind noise include the adoption of a parting seal around the tailgate and reducing the size of the bodywork's step between the trailing edge of the roof moulding and the roof spoiler.

The roof rails have been aerodynamically designed so they do not disrupt the smooth flow of air over the roof.

Together, these measures make the third-row seating area, which is closest to the tailgate and roof, much quieter.

### ENHANCED NOISE INSULATION

There are two distinct types of noise that penetrate a vehicle's interior. The first is the noise that is transmitted directly to the ears of the occupants. The second is reflected noise that eventually reaches them.

When these reach the ears of the cabin occupants at different times they can create an unpleasant sensation so to prevent sounds from echoing around the interior, the cabin uses a highly effective, sound-absorbing headliner.

This approach to preventing sounds from echoing within the occupant space further increases the quality feel of the cabin's overall quietness.

Sound-absorbing material applied at the base of the D-pillars also helps reduce the amount of noise to which third-row occupants are exposed.

### AERODYNAMICS

Mazda's aerodynamic "ground line" concept was developed for the Brand-New Mazda CX-8 Diesel to streamline airflow along the underbody while also improving aerodynamic efficiency by establishing a harmonious balance between the flow of air over the upper and lower body surfaces to the point at which they converge at the rear of the vehicle.

Using this aerodynamic concept, the Brand-New Mazda CX-8 Diesel achieves outstanding aerodynamic performance. By adopting more aerodynamic parts on the upper bodywork and the underbody along with specially-shaped ducting for the radiator grille openings, the overall result being a quieter ride at highway speeds and improved fuel economy.





## EXCELLENT SAFETY PERFORMANCE BRINGS GREATER DRIVING PLEASURE

Mazda Proactive Safety<sup>1</sup> is a comprehensive approach to maximising the range of conditions in which drivers can safely operate their vehicles with complete confidence.

The outstanding level of advanced safety performance built into Brand-New Mazda CX-8 Diesel lets occupants in all three seating rows enjoy the vehicle's true driving pleasure.

Brand-New Mazda CX-8 Diesel offers a comprehensive range of Mazda's advanced i-ACTIVSENSE<sup>2</sup> safety technologies across all grades as standard.

Asaki grade also includes the new 360° View Monitor which brings a high level of support to drivers, helping them

identify potential risks so they can drive with greater safety. It also aids in accident prevention and damage mitigation.

As a result, the Brand-New Mazda CX-8 Diesel makes travel more pleasant and completely reassuring with passive safety features which include Mazda's

<sup>1</sup> Mazda Proactive Safety is Mazda's safety philosophy that aims to maximise the range of conditions in which the driver can safely operate the vehicle while minimising the risks that can lead to an accident.

<sup>2</sup> i-ACTIVSENSE is an umbrella term covering a series of advanced safety technologies that employ detection devices such as milliwave radar units and cameras.

high-strength SKYACTIV-Body and Active Bonnet.

Active Bonnet further enhances the already-impressive levels of collision safety and pedestrian protection.

## i-ACTIVSENSE ACTIVE SAFETY FEATURES

### 360° View Monitor

The top of the range Asaki model features Mazda's newly introduced 360° View Monitor.

Using four cameras - one at the front, one on either side and one at the rear - this system shows the area around the vehicle on the central display.

A further eight parking sensors at the front and rear of the vehicle also detect Brand-New Mazda CX-8 Diesel's proximity to obstacles and sound an audible warning if the driver gets too close.

When pulling into or moving out of a garage, approaching a T-intersection or passing an oncoming vehicle on a narrow road, the 360° View Monitor lets drivers visually confirm distances to obstacles, even when they are in a blind spot.

By helping drivers respond in a prompt and appropriate fashion, the system contributes greatly to the avoidance of potentially dangerous situations.

When displaying a view of either the area in front of or behind the vehicle, the driver can also check the surroundings using the separate Overhead View feature. With each camera displaying a 177-degree area,

the front and rear wide-angle views feature extensive coverage.

The side views display the areas around each of the front wheels and once the cameras are activated, drivers can easily select between views using the touch screen or Commander Control.

*Note: 360° View Monitor is standard equipment on the Asaki.*

### Traffic Sign Recognition (TSR)

TSR uses the forward-sensing camera to detect speed limit, 'No Entry' and 'Stop' signs while driving and display them on the Active Driving Display.

If the vehicle exceeds the speed limit, TSR warns the driver by blinking graphics on the display and sounding an alert.

*Note: When the system detects a speed limit sign with an attached supplemental sign reading 'No Entry' or 'Stop', the supplemental sign is prioritised and displayed first.*

*Note: TSR is standard equipment on all model grades.*

### Intelligent Speed Assistance (ISA)

ISA is a speed-limiting system that works in conjunction with Traffic Sign Recognition (TSR) to help stop drivers from exceeding speed limits unintentionally or because they failed to notice a speed limit sign.

Alternatively, drivers can select and set the vehicle's maximum speed themselves. In situations where the system cannot sufficiently keep the vehicle's speed in check - for example on steep downhill slopes - a warning tone and flashing graphic warns drivers if the speed limit is exceeded.

*Note: ISA is standard equipment on all model grades.*



## Adaptive LED Headlamps (ALH)

Adaptive LED Headlamps are fitted as a driver support system and uses an array of 12 LED blocks in each headlamp to improve night time visibility.

ALH comprises glare-free high beam lights, wide-range low beam lights and Highway Mode, which automatically changes the angle of the lighting axis to match vehicle speed.

*Note: ALH is standard equipment on the ASAKI.*

### Glare-free high beams

When travelling at speeds of approximately 40km/h or more, the forward-sensing camera detects the headlamps of oncoming vehicles or tail lamps of those traveling ahead and extinguishes the appropriate

block or blocks of LEDs to avoid dazzling other drivers while maintaining the excellent visibility provided by the high beam headlamps.

### Wide-range low beams

When traveling at speeds of up to approximately 40km/h, the wide-range low beams light up a wider area than conventional headlamps. Illuminating the area visible between the A-pillars and door mirrors, for example, helps improve visibility at intersections and corners.

### Highway mode

When traveling at speeds of approximately 100km/h or more, the headlamp aim is automatically angled upward to extend the range of coverage and make it easier for drivers to see further ahead.

## High-Beam Control (HBC)

When driving with the headlamp high beams activated, the system detects the headlamps of oncoming vehicles or tail lamps of vehicles travelling ahead and automatically switches to low beam to prevent blinding the drivers of those vehicles.

This feature also helps reduce the need for manual operation and improves visibility at night.

*Note: HBC is standard equipment on the Sport.*

## Blind Spot Monitoring (BSM)

Active at speeds of 10km/h or more, Brand-New Mazda CX-8 Diesel's Blind Spot Monitoring system uses 24GHz milliwave radar sensors to detect vehicles approaching from behind and unable to be seen in the rear-view mirrors.

Checking the vehicle's side and rear blind spots, BSM helps drivers confirm their safety before changing lanes.

The same sensors are also used by the Rear Cross Traffic Alert (RCTA) system, which sounds an audible warning if it detects vehicles approaching from either side when the car is being reversed.

## Lane-Keep Assist System (LAS) and Lane Departure Warning (LDW)

A forward-sensing camera monitors road lane markings ahead and helps prevent unintentional lane departure by vibrating the steering wheel or sounding an audible warning if a lane marking line is crossed.

The Lane-keep Assist System also provides steering torque assistance to help the driver avoid drifting out of the lane or for keeping the vehicle in the centre of the lane.

The Lane-keep Assist and Lane Departure Warning systems are inoperative when an indicator is used to signal a lane change.

## Driver Attention Alert (DAA)

Driver Attention Alert uses information, including the steering angle and vehicle speed, along with information from the forward-sensing camera, to check on the driver's condition when driving at highway speeds and will suggest breaks are taken as appropriate.

The system is designed to prevent accidents caused by fatigue or decreased alertness.

## Mazda Radar Cruise Control (MRCC) with Stop and Go

MRCC combines milliwave radar sensors and the forward-sensing camera to measure the relative speed of the vehicle ahead and the distance between it and the Brand-New Mazda CX-8 Diesel, the data is used to automatically control the engine and brakes to maintain the appropriate vehicle speed and optimal following distance.

The system works at any speed and can follow the car in front to a stop and continue following it from a standing start.

When driving with the MRCC active, Brand-New Mazda CX-8 Diesel will automatically slow and stop if the car ahead does the same and will remain stopped until the car ahead pulls away.



The driver controls when the car starts moving again<sup>1</sup> and Brand-New Mazda CX-8 Diesel automatically accelerates and follows the car ahead at the appropriate speed.

The system includes a notification function that alerts the driver when the car ahead pulls away.

<sup>1</sup> If the car ahead pulls away within three seconds after the car has stopped, the cruise control continues, and the car will follow the car ahead with no action on the part of the driver.

**Smart City Brake Support (SCBS)**

SCBS uses the forward-sensing camera to detect vehicles and pedestrians ahead at all times, helping to avoid collisions or mitigate damage in the event one does occur.

The system detects vehicles at speeds of between 4km/h and 80km/h and pedestrians at speeds between 10km/h and 80km/h.

SCBS also features Smart City Brake Support [Reverse] (SCBS R), which uses

	Sport (FWD)	Sport (AWD)	Asaki (AWD)
360° View Monitor	-	-	•
Traffic Sign Recognition (TSR)	•	•	•
Intelligent Speed Assistance (ISA)	•	•	•
Adaptive LED Headlamps (ALH)	-	-	•
High Beam Control (HBC)	•	•	-
Blind Spot Monitoring (BSM)	•	•	•
Rear Cross Traffic Alert (RCTA)	•	•	•
Lane-keep Assist System (LAS) & Lane Departure Warning System (LDW)	•	•	•
Driver Attention Alert (DAA)	•	•	•
Mazda Radar Cruise Control with Stop and Go (MRCC)	•	•	•
Smart City Brake Support [Forward/Reverse] (SCBS F/R)	•	•	•
Smart Brake Support (SBS)	•	•	•

ultrasonic sensors mounted on the rear bumper to help mitigate damage if a collision occurs while reversing.

**Smart Brake Support (SBS)**

The Smart Brake Support system uses milliwave radar sensors and the forward-sensing camera to monitor vehicles and

obstacles ahead, helping avoid front-end collisions and mitigating damage by sounding an audible alert and applying the brakes in a two-stage pattern.

The system is operational at speeds of 15km/h or more and includes support for highway speeds.





## DESIGNED-IN PASSIVE SAFETY

### High-strength SKYACTIV-Body

The Brand-New Mazda CX-8 Diesel adopts Mazda's high-strength SKYACTIV-Body, which effectively absorbs and disperses impact forces from the front, sides and rear to suppress cabin deformation.

Excellent collision safety is achieved through careful design and construction which includes a basic framework that is as straight and continuous as possible and the application of multi-load path and ring structures around the occupant space.

### Measures to protect against frontal impact

The SKYACTIV-Body employs a multi-load path structure with upper, middle and lower paths, all of which effectively absorb and disperse impact forces within the engine bay.

Large gussets mounted above the base of each A-pillar combine with reinforcements inside the hinge pillars that prevent them from deforming, creating a vertical load path which enhances the effectiveness of the chassis' multi-load path structure.

With 1,180MPa ultra-high-tensile steel used as the A-pillar material and high-strength material used throughout the cabin, the SKYACTIV-Body helps reduce weight while also achieving a high level of collision safety.

### Measures to protect against side impact

A series of H-shaped structures join the roof and B-pillars to the underbody and combine with two side impact bars in each of the front and rear doors to prevent

cabin deformation in the event of a collision.

In addition, the use of lighter, stronger 980MPa ultra-high-tensile steel in the B-pillars and side sills also helps enhance overall cabin strength.

Great effort has also gone into designing the door trims to reduce the chance of occupants being injured by sharp edges or protruding objects resulting from deformation in the event of a collision.

### Measures to protect against rear impact

The Brand-New Mazda CX-8 Diesel adopts a structure that joins the double-hat-shaped rear frame and B-frame to effectively absorb and disperse impact force.

It also features a frame layout and structure which protects the fuel tank and helps prevent fuel leaks from occurring as the result of an impact.

A fork-shaped structure at the base of the C-pillars also helps prevent the rear frame from lifting in the event of a rear-end collision, all without reducing the space afforded to third-row occupants.

## ADDITIONAL SAFETY EQUIPMENT AND MECHANISMS

Each of the front seatbelts is equipped with a pretensioner and load limiter.

Polypropylene foam has also been added to the insides of the head restraints and is one example of measures implemented to reduce the amount head movement relative to the torso in the event of a rear-end impact, thereby mitigating shock to the neck.

In addition, front airbags and front side airbags for the driver and passenger's seats are standard on all grades, as are curtain airbags for all three rows of seats.

Seatbelts with pretensioners and load limiters are fitted to both the left and right sides of the second-row seat and ISOFIX

child seat anchor points are standard on the same seats. With top-tether anchor points available on all five rear seats.

## PEDESTRIAN PROTECTION

The bonnet, cowl panel, front bumper and upper grille of Brand-New Mazda CX-8 Diesel have all been designed to soften any impact to the head and legs should the vehicle strike a pedestrian.

The Active Bonnet, which is fitted as standard equipment, automatically rises at its rear edge by approximately 100mm the instant a collision with a pedestrian is detected by sensors in the car.

This creates space between the bonnet and the engine, helping reduce the risk of pedestrian injury.







# PRICING

GRADE	ENGINE	DRIVETRAIN	MLP*
Sport	SKYACTIV-D 2.2	FWD	\$42,490
Sport	SKYACTIV-D 2.2	AWD	\$46,490
Asaki	SKYACTIV-D 2.2	AWD	\$61,490

\* Manufacturer's List Price (MLP) includes GST and Luxury Car Tax (LCT) where applicable but excludes dealer delivery, registration, third party insurance costs, stamp duty and other mandatory charges.



# SPECIFICATIONS & EQUIPMENT

POWERTRAIN		2.2L I4 Diesel FWD	2.2L I4 Diesel AWD
Bore and stroke (mm)		86.0 x 94.3	
Compression ratio		14.4:1	
Drivetrain		FWD	i-ACTIV AWD
Emissions standard		Euro stage V	
Engine capacity (cc)		2,191	
Engine type		2.2 litre in-line 4 cylinder 16 valve DOHC intercooled twin turbo diesel (SKYACTIV-D) engine	
Fuel consumption (L/100km)*:	Auto (combined)	5.7	6.0
	Auto (extra urban)	5.2	5.5
	Auto (urban)	6.6	6.9
Fuel system		Common rail, electronic direct injection	
Fuel tank capacity (litres)		72	74
Gear ratio:	1st	3.487	
	2nd	1.992	
	3rd	1.449	
	4th	1.000	
	5th	0.707	
	6th	0.600	
	Reverse	3.990	
		4.411	
Maximum power (kW @ rpm)		140 @ 4,500	
Maximum torque (Nm @ rpm)		450 @ 2,000	
Recommended fuel		Diesel	
Throttle control		Electronic (drive-by-wire)	
Transmission		6-speed (SKYACTIV-Drive)	

MODEL AVAILABILITY		Sport	Asaki
7-seat SUV:	2.2L I4 Diesel FWD / 6 speed automatic	•	-
	2.2L I4 Diesel AWD / 6 speed automatic	•	•

CHASSIS AND POWERTRAIN TECHNOLOGIES	Sport	Asaki
Automatic transmission kickdown switch	•	•
Electric Parking Brake with Auto-Hold	•	•
Electric power assist steering	•	•
Hill Launch Assist (HLA)	•	•
i-ACTIV AWD	◦	•
i-Stop	•	•
SKYACTIV-BODY	•	•
SKYACTIV-CHASSIS	•	•
SKYACTIV-VEHICLE DYNAMICS G-Vectoring Control (GVC)	•	•
Variable Geometry Turbo charger (VGT)	•	•

• = Standard, ◦ = Optional, - = Not available

WEIGHT AND CAPACITIES	Sport	Asaki
Cargo volume VDA (litres):	Measured with 3rd row seats up and up to roof	209
	Measured with 3rd row seats up and up to roof (including underfloor storage)	242
	Measured with 3rd row seats folded and up to roof	742
Kerb weight (kg):	2.2L I4 Diesel FWD / 6-speed automatic	1,840
	2.2L I4 Diesel AWD / 6-speed automatic	1,957
Towing capacity (kg):	Braked	2,000
	Unbraked	750
Tow ball download maximum (kg)		100

## CHASSIS

		Sport	Asaki
Brake diameter (mm):	Front	320	
	Rear	325	
Brake type:	Front	Ventilated disc	
	Rear	Solid disc	
Suspension:	Front	MacPherson strut	
	Rear	Multi-link	
Turning circle kerb to kerb (m)		11.6	
Tyre size		225/65 R17	225/55 R19
Tyre index		102H	99V
Wheel size		17 x 7.0 J	19 x 7.0 J
Wheel type		Alloy	
Tyre size (spare)		T155/80 R17	
Wheel size (spare)		17 x 4.0 T	
Wheel type (spare)		Temporary (Steel)	

## DIMENSIONS

		Sport	Asaki
Ground clearance (mm):	Laden	195	200
	Unladen	200	205
Overall length (mm)		4,900	
Overall width (mm)		1,840	
Overall height (mm)		1,720	1,725
Track (mm):	Front	1,596	
	Rear	1,599	
Wheelbase (mm)		2,930	

## EXTERIOR

	Sport	Asaki
Daytime running lamps (LED)	-	•
Door handles (body coloured)	•	•
Exhaust extensions (chrome)	•	•
Front fog-lamps (LED)	-	•
Front and rear bumpers (body coloured)	•	•
Green-tinted windscreen, side and rear windows	•	•
Headlamps (LED)	•	•
Headlamps auto on/off function	•	•
Power mirrors (body coloured with heating and auto-folding function)	•	•
Power windows	•	•
Rear spoiler	•	•
Remote operated power tailgate (open/close)	-	•
Roof rails	•	•
Tail-lamps (LED)	•	•
Window demister (rear)	•	•
Wipers (front) 2-speed with rain-sensing function	•	•
Wiper (rear) with intermittent function	•	•

• = Standard, - = Not available



SEATS		Sport	Asaki
Front seats with:	2-position memory function (driver)	-	•
	6-way power adjustment (passenger)	-	•
	10-way power adjustment (driver)	-	•
	Adjustable head restraints	•	•
	Heating function	-	•
	Height adjustment	•	•
	Lumbar support adjustment (driver)	-	•
	Rake and slide adjustments	•	•
Rear seats with:	Seat back pockets	•	•
	60/40 split fold backrest (2nd row)	•	•
	50/50 split fold backrest (3rd row)	•	•
	Adjustable head restraints (2nd row)	•	•
	Centre fold-down armrest with USB and storage (2nd row)	•	•
	Heating function (2nd row, outer)	-	•
Seat trim:	Rake and slide adjustment (2nd row)	•	•
	Black cloth	•	-
	Dark russet nappa leather	-	•
	Pure white nappa leather	-	◦

INTERIOR		Sport	Asaki
Active Driving Display		•	•
Air-conditioning (three-zone climate control) with independant rear control and vents (2nd row)		•	•
Ambient temperature display		•	•
Cargo area 12 volt power outlet		•	•
Centre armrest console		•	•
Critical function warning lights/chimes		•	•
Cupholders		•	•
Door bottle holders (front and rear)		•	•
Glove box		•	•

• = Standard, ◦ = Optional, - = Not available

INTERIOR		Sport	Asaki
Heated steering wheel function		-	•
Instrument panel light dimmer		•	•
Interior illumination:	Cargo room lamp	•	•
	Entry system with delayed fade	•	•
	Map reading spot lamps (Incandescent)	•	-
	Map reading spot lamps (LED)	-	•
Leather wrapped:	Power window switch	•	•
	Gear shift knob	•	•
Steering wheel		•	•
Mazda Radar Cruise Control (MRCC) with Stop & Go function		•	•
One touch (up and down) power windows (front and rear)		•	•
Overhead sunglass storage box		•	•
Rear door window sunshade		-	•
Rear-view mirror with auto dimming function		•	•
Tachometer and electronic odometer/tripmeter		•	•
Tilt and telescopic adjustable steering wheel		•	•
Trip computer		•	•
Vanity mirrors (fronts) with illumination		•	•

• = Standard, - = Not available

SAFETY AND SECURITY		Sport	Asaki
360° View Mirror		-	•
Adaptive LED Headlamps (ALH)		-	•
Blind Spot Monitoring (BSM)		•	•
Advanced keyless entry		-	•
Advanced keyless push-button engine start		•	•
Airbags SRS:	Front (driver and passenger)	•	•
	Side (front)	•	•
	Curtain (front and rear)	•	•
Anti-lock Braking System (ABS)		•	•
Auto Door Lock (ADL)		•	•
Childproof rear door lock		•	•
Child restraint anchorage points:	ISOFIX (x2)	•	•
	Top tether (x5)	•	•
Driver Attention Alert (DAA)		•	•
Dynamic Stability Control (DSC)		•	•
Electronic Brake-force Distribution (EBD)		•	•
Emergency Brake Assist (EBA)		•	•
Emergency Stop Signal (ESS)		•	•
Engine Immobiliser		•	•
Forward Obstruction Warning (FOW)		•	•
High Beam Control (HBC)		•	-
High mount stop lamp		•	•
Hill Launch Assist (HLA)		•	•
Intelligent Speed Assistance (ISA)		•	•
Intrusion-minimising brake pedal		•	•
Lane Keep-assist System (LAS)		•	•
Lane Departure Warning (LDW)		•	•
Left-hand-side convex (wide angle) exterior mirror		•	•
Parking sensors (front)		-	•

SAFETY AND SECURITY		Sport	Asaki
Parking sensors (rear)		•	•
Rear Cross Traffic Alert (RCTA)		•	•
Remote central locking (2 transmitters)		•	•
Reverse camera		•	•
Roll Stability Control (RSC)		•	•
Seat-belt warning (front and rear)		•	•
Seat-belts 3-point lap-sash (all seats)		•	•
Seat-belts (front) with pretensioners, load-limiters and height adjustable shoulder anchorages		•	•
Seat-belts (2nd row) with pretensioners and load-limiters		•	•
Side impact door beams		•	•
Smart Brake Support (SBS)		•	•
Smart City Brake Support [Forward/Reverse] (SCBS F/R)		•	•
Traction Control System (TCS)		•	•
Trailer Stability Assist (TSA)		•	•
Traffic Sign Recognition (TSR)		•	•
Triple H' safety construction with front and rear crumple zones		•	•
Whiplash-minimising front seats		•	•

• = Standard, - = Not available



INFOTAINMENT	Sport	Asaki
7-inch full colour touch screen display (MZD Connect)	•	•
AM/FM tuner	•	•
Auxiliary-audio input jack (3.5mm mini-stereo)	•	•
Bluetooth® hands-free phone and audio capability	•	•
Digital radio (DAB+)	•	•
Internet radio integration (Stitcher™ and Aha™)	•	•
Multi-function commander control	•	•
Premium Bose® 273 watt amplifier and speakers	-	•
Radio Data System (RDS) program information	•	•
Satellite navigation	•	•
Speakers (6)	•	-
Speakers (10)	-	•
Steering wheel-mounted audio controls	•	•
USB-audio input port (iPod® compatible)	•	•

• = Standard, - = Not available

Specific disclaimers

- 1 Combined fuel consumption figures are based on ADR 81/02 test results. They are useful in comparing the fuel consumption of different vehicles. They may not be the fuel consumption achieved in practice. This will depend on traffic, road conditions and how the vehicle is driven.
- 2 Driver-assistance features do not replace the driver's judgment and are not to be used in place of skilled and safe driving practices. It is the driver's sole responsibility to monitor vehicle surroundings and conditions and comply with all applicable laws at all times.
- 3 i-ACTIVSENSE and other safety technologies are driver assist technologies only and should not be used in place of skilled and safe driving practices. It is the driver's sole responsibility to monitor vehicle surroundings and conditions and comply with all applicable laws at all times.
- 4 Please check the compatibility of your Bluetooth® device (particularly your mobile phone) with the specific Mazda vehicle you intend to purchase as not all devices operate correctly.  
Visit [www.mazda.com.au/Bluetooth](http://www.mazda.com.au/Bluetooth) or consult your Mazda Dealer for further information.
- 5 Leather interior includes some Maztex material on selected high impact surfaces.

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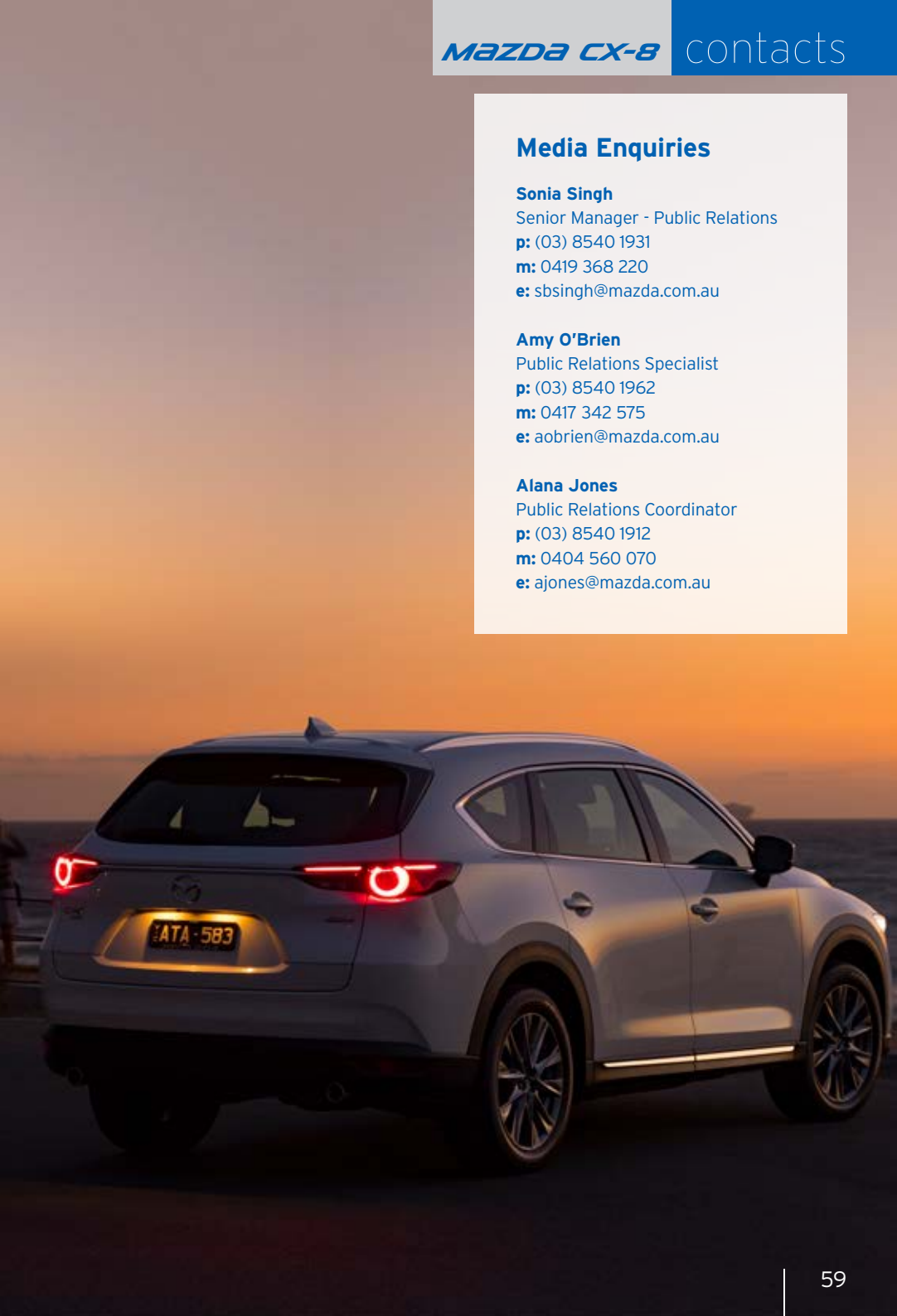
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