### Zoom-Zoom

All children instinctively know it.

A few adults still remember it.

One unique car company refuses to outgrow it.

In grown-up language, it means the exhilaration and

liberation that come from experiencing sheer motion.

But as usual, children put it much better and simply call it " Go Zoom-Zoom."

We practice it every day.

It's why we build the kind of cars we do.

Zoom-Zoom.

Can we re-awaken it in you today?

Thank you for choosing a Mazda. We at Mazda design and build vehicles with complete customer satisfaction in mind.

To help ensure enjoyable and trouble-free operation of your Mazda, read this manual carefully and follow its recommendations.

Regular servicing of your vehicle by an expert repairer helps maintain both its roadworthiness and its resale value. A world-wide network of Authorised Mazda Repairers can help you with their professional servicing expertise.

Their specially trained personnel are best qualified to service your Mazda vehicle properly and exactly. Also, they are supported by a wide range of highly specialized tools and equipment specially developed for servicing Mazda vehicles. When maintenance or service is necessary we recommend an Authorised Mazda Repairer.

We assure you that all of us at Mazda have an ongoing interest in your motoring pleasure and in your full satisfaction with your Mazda product.

#### Mazda Motor Corporation HIROSHIMA, JAPAN

#### Important Notes About This Manual

Keep this manual in the glove box as a handy reference for the safe and enjoyable use of your Mazda. Should you resell the vehicle, leave this manual with it for the next owner.

All specifications and descriptions are accurate at the time of printing. Because improvement is a constant goal at Mazda, we reserve the right to make changes in specifications at any time without notice and without obligation.

Please be aware that this manual applies to all models, equipment and options. As a result, you may find some explanations for equipment not installed on your vehicle.

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### Introduction

About This Manual	page 1
Symbols Glossary	page 2
Parts and Accessories	page 2

#### At a Glance

At a Glance	page 3
-------------	--------

### **Child Safety**

Child Seats	. page 9
Child Seat Positioning	page 14
ISOFIX Anchor Points	page 16
Booster Seats	page 17
Child Safety Locks	page 19

### **Occupant protection**

Principle of Operation	page 20
Fastening the seat belts	page 29
Seat belt height adjustment	page 30
Seat belt reminder	page 31
Using seat belts during	
pregnancy	page 31
Disabling the passenger airbag	
Constant monitoring	page 33

### **Keys and Remote Controls**

General Information on Radio
Frequencies page 35
Programming the remote
control page 35
Changing the remote control
battery page 37

#### Locks

Locking and	Unlocking		page 38
-------------	-----------	--	---------

### **Engine immobiliser**

Principle of Operation page 42
Coded keys page 43
Arming the engine immobiliser page 43
Disarming the engine
immobiliser page 44

### Alarm

Principle of Operation	page 45
Arming the alarm	page 47
Disarming the alarm	page 47

### **Steering Wheel**

Adjusting the Steering Wheel	page 48
Audio Control	page 49
Voice Control	page 49

### Wipers and Washers

page 50
page 50
page 51
page 52
page 52

### Lighting

#### Windows and Mirrors

Power Windows	page 68
Exterior Mirrors	page 70
Electric exterior mirrors	page 71

#### **Instrument Cluster**

Gauges	page 73
Warning Lamps and Indicators	page 74
Audible Warnings and	
Indicators	page 81

#### **Information Displays**

General Information	page 83
Trip Computer	page 83

Personalised Settings ..... page 86

### **Air-Conditioning**

Principle of Operation	page 88
Air Vents	page 89
Manual Air-Conditioning	page 89
Automatic Air-Conditioning	page 92
Heated Windows	page 96

#### Seats

Sitting in the Correct Position	. page 97
Front Seats	. page 98
Head Restraints	page 103
Rear Seats	page 104
Heated Seats	page 105

#### **Convenience features**

Clock page 106
Instrument Lighting Dimmer page 106
Cigar Lighter page 107
Ashtray page 107
Auxiliary Power Points page 108
Cup Holders page 108
Overhead Console page 109
Storage compartments page 110
Auxiliary input (AUX IN)
socket page 111
USB port page 111
Floor Mats page 112

#### Starting and Stopping the Engine

age 113
age 113
age 114
age 114
age 116
age 116
age 117

#### **Fuel and Refuelling**

Safety Precautions pa	ge 118
Fuel Quality - Petrol pa	ge 118
Fuel Quality - Diesel pa	ge 119
Catalytic Converter pa	ge 120
Fuel filler flap pa	ge 120

Refuelling	page	122
Fuel Consumption	page	122

#### Transmission

Manual Transmission pa	ige 123
Four-Wheel Drive pa	ige 123
Electronic Locking	-
Differential pa	ige 125
Automatic Transmission pa	ige 126

#### Brakes

Principle of Operation	page 130
Hints on Driving With Anti-Lock	Ξ
Brakes	page 131
Parking Brake	page 131

#### Hill descent control (HDC)

Principle of Operation	page	132
Using Hill Descent Control	page	132

### **Dynamic Stability Control**

Principle of Operation	page	134
Using Dynamic Stability		
Control	page	135

#### Hill Launch Assist

Principle of	Operation	page 136
i interpre or	operation	puge 150

### **Parking Aids**

Principle of Operation	page 138
Using the Parking Aid - Vehicles	With:
Rear Parking Aid	page 139
Rear View Camera	page 141

#### **Cruise Control**

Principle of Operation	page	143
Using Cruise Control	page	143

#### Load Carrying

General Information	page	146
Tailgate	page	146
Load Retaining Fixtures	page	147

#### **Driving Hints**

General Driving Points	page 148
------------------------	----------

Running-In	page 149
Cold Weather Precautions	page 149
Reduced Engine Performance	page 150
Driving Through Water	page 150
Vehicle Loading	page 152

### Towing

Towing a Ti	railer	page	153
-------------	--------	------	-----

### Fuses

Fuse Box Locations	page	159
Changing a Fuse	page	160
Fuse Specification Chart	page	161

#### Vehicle recovery

Towing Points	page 166
Towing the Vehicle on Four	
Wheels	page 166

### Maintenance

General Information page 168 Opening and Closing the
Bonnet page 169 Under Bonnet Overview - MZI
2.5 page 171 Under Bonnet Overview - MZ-CD
2.2 page 172 Under Bonnet Overview - MZ-CD 3.2
I5 page 174 Engine Oil Dipstick - MZI 2.5 page 176
Engine Oil Dipstick - MZ-CD 2.2/MZ- CD 3.2 I5 page 176
Engine Oil Check page 177 Engine Coolant Check page 178
Power Steering Fluid Check page 179 Brake and Clutch Fluid Check page 179 Draining the Fuel Filter Water
Trap page 180 Washer Fluid Check page 181 Technical Specifications page 182 Scheduled Maintenance page 183

### Vehicle Care

Cleaning the Exterior	page	188
Cleaning the Interior	page	189

Repairing Minor Paint Damage page 189
Vehicle battery
Jump-Starting the Vehicle page 190 Battery connection points page 191 Battery warning symbols page 191
Wheels and Tyres
General Informationpage 193Changing a Road Wheelpage 194Tyre Carepage 202Using Winter Tyrespage 203Using Snow Chainspage 204Tyre pressure monitoringsystemsystempage 204Technical Specificationspage 209
Vehicle identification
Vehicle Identification Plate page 210 Vehicle Identification Number page 210
Capacities and Specific
Technical Specifications page 211
Navigation introduction
General Information page 217 Road Safety page 218
Navigation Quick start
Navigation Quick start page 219
Navigation unit overview
Navigation unit overview page 221 Loading the navigation data page 224
System settings
System settings page 225
Navigation system
Route options menu page 228 Route displays page 229
Traffic Message Channel
Principle of Operation page 231

### **Table Of Contents**

Using TMC page 231
Map updates
Map updates page 232
Audio introduction
Important audio information page 233
Audio unit overview
Audio unit overview page 235
Audio system security
Security code page 242
Audio unit clock and date
Setting the clock on the audio unit page 243
Audio unit operation
On/off controlpage 245Sound buttonpage 245Waveband buttonpage 246Station tuning controlpage 246Station preset buttonspage 247Autostore controlpage 248Traffic information controlpage 248
Audio unit menus
Automatic volume control nage 250

Automatic volume control	page 250
Digital signal processing	
(DSP)	page 250
News broadcasts	page 251
Alternative frequencies	page 251
Regional mode (REG)	page 252

### Compact disc player

Compact disc playback page 253
Track selection page 253
Fast forward/reverse page 254
Shuffle/random page 254
Repeat compact disc tracks page 255
Compact disc track scanning page 255
MP3 file playback page 256
MP3 display options page 259
Ending compact disc playback page 259

### Auxiliary input (AUX IN)

Auxiliary input (AUX IN)	
socket	page 260

### Audio system care

Aerial	page	261
--------	------	-----

### Audio troubleshooting

Audio	troubleshooting		page	262
-------	-----------------	--	------	-----

### Telephone

General Information page 263	\$
Telephone setup page 263	;
Bluetooth® setup page 264	ł
Telephone controls page 265	;
Using the telephone page 266	5

#### Voice control

Principle of Operation	page 269
Using voice control	page 270
Audio unit commands	page 271
Telephone commands	page 280
Air-conditioning commands	page 282

### Connectivity

General Information	page 284
Connecting an external device	page 286
Connecting an external device - V	Vehicles
With: Bluetooth®	page 286
Using a USB device	page 287
Using an iPod	page 290

### Appendices

Type approvals	page	293
Type approvals	page	293
Type approvals	page	294
Electromagnetic compatibility	page	295

### ABOUT THIS MANUAL

Thank you for choosing Mazda. We recommend that you take some time to get to know your vehicle by reading this manual. The more that you know about it, the greater the safety and pleasure you will get from driving it.

# A WARNING

Always drive with due care and attention when using and operating the controls and features on your vehicle.

#### NOTE

- This manual describes product features and options available throughout the range, sometimes even before they are generally available. It may describe options not fitted to your vehicle.
- Some of the illustrations in this manual may be used for different models, so may appear different to your vehicle. However, the essential information in the illustrations is always correct.
- Always use and operate your vehicle in line with all applicable laws and regulations.
- Pass on this manual when selling your vehicle. It is an integral part of the vehicle.

This vehicle has received the endorsement of TÜV, the accredited international testing organisation, for its allergyfriendly properties.

All materials used in the manufacture of the interior of this vehicle meet strict requirements of the TÜV TOXPROOF Criteria Catalogue for Vehicle Interiors by TÜV Produkt and Umwelt GmbH and are designed to minimize the risk of allergic reactions.

Additionally an efficient pollen filter protects the passengers against allergen particles in the outdoor air.

For more information, contact TÜV at www.tuv.com.

### SYMBOLS GLOSSARY

Symbols in this handbook

### A WARNING

You risk death or serious injury to yourself and others if you do not follow the instructions highlighted by the warning symbol.

### **CAUTION**

You risk damaging your vehicle if you do not follow the instructions highlighted by the caution symbol.

#### Symbols on your vehicle





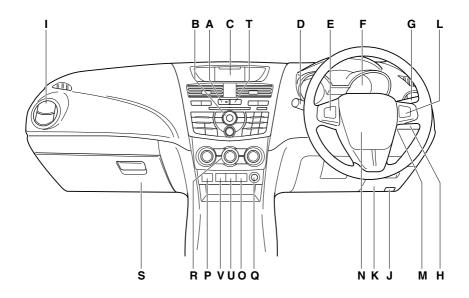
When you see these symbols, read and follow the relevant instructions in this handbook before touching or attempting adjustment of any kind.

### PARTS AND ACCESSORIES

Genuine Mazda parts and accessories have been designed specifically for your vehicle. Unless we have specifically stated, we have not tested non-Mazda parts and accessories and, therefore, we will not guarantee that they are suitable for your vehicle. We recommend that you ask your Authorised Mazda Repairer for advice on parts and accessories suitable for your vehicle.

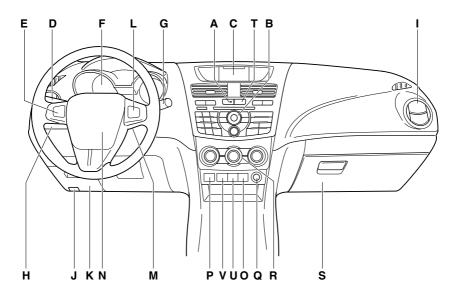
### AT A GLANCE

### Instrument panel overview - Right-hand drive



The equipment and installation position varies by vehicle

### Instrument panel overview - Left-hand drive



The equipment and installation position varies by vehicle

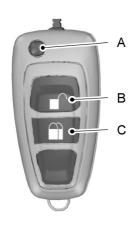
А	Door lock button. See Locking and Unlocking (page 38).
В	Audio unit. See Audio unit overview (page 235).
С	Multi-functional display.
D	Multi-function lever: Direction indicators. See <b>Direction Indicators</b> (page 59). High Beam. See <b>Lighting Control</b> (page 54). or Wiper lever. See <b>Wipers and Washers</b> (page 50).
Е	Audio control. See Audio Control (page 49).
F	Instrument cluster. See Gauges (page 73). See Warning Lamps and Indicators (page 74).
G	Multi-function lever: Direction indicators. See <b>Direction Indicators</b> (page 59). High Beam. See <b>Lighting Control</b> (page 54). or Wiper lever. See <b>Wipers and Washers</b> (page 50).
$H^*$	Headlamp levelling switch. See Headlamp Levelling (page 58).
Ι	Air vents. See Air Vents (page 89).
J	Bonnet release lever. See Opening and Closing the Bonnet (page 169).
K	Driver side storage compartment. See Storage compartments (page 110).
L	Cruise control. See Cruise Control (page 143).
М	Ignition switch. See Ignition Switch (page 113).
N	Horn.
0	Dynamic stability control (DSC) off switch. See Using Dynamic Stability Control (page 135).
Р	Passenger airbag deactivation warning lamp. See Disabling the passenger airbag (page 32).
Q	Auxiliary power sockets. See Auxiliary Power Points (page 108).

R	Air-conditionings. See <b>Manual Air-Conditioning</b> (page 89), See <b>Automatic Air-Conditioning</b> (page 92).
S	Auxiliary input and USB. See <b>Auxiliary input (AUX IN) socket</b> (page 111). See <b>USB port</b> (page 260).
Т	Hazard warning flasher switch. See Hazard Warning Flashers (page 59).
U	Electronic Locking Differential (ELD) button. See Electronic Locking Differential (page 125).
V	Hill descent control on switch. See Hill descent control (HDC) (page 132).

\* Some models.

### ▼Locking and unlocking

#### Unlocking the vehicle



E131278

Α	Key fold/unfold button
В	Unlock
С	Lock

Press the unlock button once to unlock the vehicle.

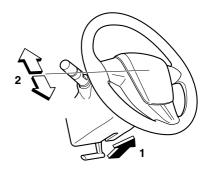
Press the lock button once to activate central locking.

Press the lock button twice within three seconds to double lock the doors.

### ▼Adjusting the steering wheel

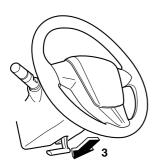
# A WARNING

Never adjust the steering wheel when the vehicle is moving.



### **WARNING**

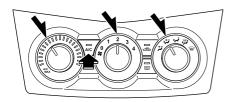
Make sure that you fully engage the locking lever when returning it to its original position.



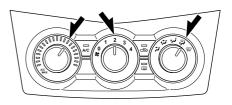
See Adjusting the Steering Wheel (page 48).

### ▼Manual air-conditioning

#### **Recommended settings for cooling**



Select the outside air. Open the centre and side air vents. Direct the centre air vents upwards and the side air vents toward the side windows. **Recommended settings for heating** 



Select the outside air. Close the centre air vents and open the side air vents. Direct the side air vents toward the side windows. See **Manual Air-Conditioning** (page 89).

### ▼Automatic air-conditioning

**Recommended settings for cooling** 



E131283

Select the outside air. Set the temperature to 22 °C (72 °F). Open the centre and side air vents. Direct the centre air vents upwards and the side air vents toward the side windows.

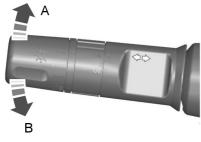
### **Recommended settings for heating**



E131284

Select the outside air. Set the temperature to 22 °C (72 °F). Open the centre and side air vents. Direct the centre air vents upwards and the side air vents toward the side windows.

### ▼ Direction indicators



E131285

If the lever is tapped up or down, the direction indicators will flash three time. See **Direction Indicators** (page 59).

### ▼Airbag



E131289

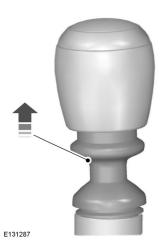
### **WARNING**

To avoid the risk of death or serious injury, never use a rearward facing child restraint in the front, unless the air bag is OFF.

See Child Seat Positioning (page 14).

▼ Manual transmission

Selecting reverse gear - 6 speed

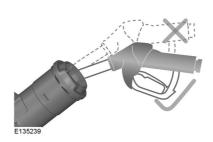


It is necessary to raise the collar whilst selecting reverse gear in 6-speed vehicles. See **Manual Transmission** (page 123).

### ▼ Refuelling

### *∆* WARNING

Take care when refuelling to avoid spilling any residual fuel from the fuel pipe nozzle.



Insert the fuel pipe nozzle up to the first notch on the nozzle, and keep it in position on the fuel filler opening.

# A WARNING

We recommend that you wait at least 10 seconds before removing the fuel nozzle to allow any residual fuel to drain into the fuel tank.



Slightly raise the fuel nozzle to remove it. See **Fuel filler flap** (page 120).

### **CHILD RESTRAINT PRECAUTIONS**

Mazda strongly urges the use of child-restraint systems for children small enough to use them.

Mazda recommends use of a Mazda genuine child-restraint system or one that complies with the UNECE <sup>\*1</sup>44 regulation. If you would like to purchase a Mazda genuine child-restraint system, please contact an Authorised Mazda Repairer.

Check your local and state or provincial laws for specific requirements regarding the safety of children riding in your vehicle.

\*1 UNECE stands for United Nations Economic Commission for Europe.

Whatever child-restraint system you consider, please pick the appropriate one for the age and size of the child, obey the law and follow the instructions that come with the individual child-restraint system.

A child who has outgrown child-restraint systems should sit in the rear and use seat belts.

The child-restraint system should be installed on the rear seat. Statistics confirm that the rear seat is the best place for all children up to 12 years of agethe more so with a supplementary restraint system (air bags).

A rear-facing child-restraint system should **NEVER** be used in the front passenger seat with the air bag system activated. The front passenger's seat is also the least preferred seat for other child-restraint systems.

For some models, we have provided a deactivation switch that will disable front passenger air bag inflation. Do not switch off the front passenger air bag without reading the "Disabling the Passenger Airbag". See **Disabling the Passenger Airbag** (page 32).

Use the correct size child-restraint system:

For effective protection in vehicle accidents and sudden stops, a child must be properly restrained using a seat belt or child-restraint system depending on age and size. If not, the child could be seriously injured or even killed in an accident.

Follow the manufacturer's instructions and always keep the child-restraint system buckled down:

An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Make sure any child-restraint system is properly secured in place according to the child-restraint system manufacturer's instructions. When not in use, remove it from the vehicle or fasten it with a seat belt, or latch it down to BOTH ISOFIX anchors, and attach the corresponding tether anchor.

Always secure a child in a proper child-restraint system:

Holding a child in your arms while the vehicle is moving is extremely dangerous. No matter how strong the person may be, he or she cannot hold onto a child in a sudden stop or collision and it could result in serious injury or death to the child or other occupants. Even in a moderate accident, the child may be exposed to air bag forces that could result in serious injury or death to the child may be slammed into an adult, causing injury to both child and adult.

### **WARNING**

*Extreme Hazard! Never use a rear-facing child-restraint system on the front passenger seat with an air bag that could deploy:* 

Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!

Even in a moderate collision, the child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child. If your vehicle is equipped with a front passenger air bag deactivation switch, always set the switch to the OFF position when installing a rear-facing child-restraint system on the front passenger seat.



Vehicles with a front passenger air bag have a warning label attached as shown below. The warning label reminds you not to put a rear-facing child-restraint system on the front passenger seat at any time.



Do not install a front-facing child-restraint system on the front passenger seat unless it is unavoidable:

In a collision, the force of a deploying air bag could cause serious injury or death to the child. If installing a front-facing child-restraint system on the front passenger seat is unavoidable, move the front passenger seat as far back as possible and make sure that the front passenger air bag deactivation switch is in the OFF position. See Disabling the Passenger Airbag (page 32).



Do not allow a child or anyone to lean over or against the side window of a vehicle with side and curtain air bags:

It is dangerous to allow anyone to lean over or against the side window, the area of the front passenger seat, the front and rear window pillars and the roof edge along both sides from which the side and curtain air bags deploy, even if a child-restraint system is used. The impact of inflation from a side or curtain air bag could cause serious injury or death to an out of position child. Furthermore, leaning over or against the front door could block the side and curtain air bags and eliminate the advantages of supplementary protection. With the front air bag and the additional side air bag that comes out of the front seat, the rear seat is always a better location for children. Take special care not to allow a child to lean over or against the side window, even if the child is seated in a child-restraint system.

<u>Use the tether and tether anchor only for a child-restraint system:</u> Child-restraint system anchorages are designed to withstand only those loads imposed by correctly installed child-restraint systems. Under no circumstances are they to be used for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.

Always route the tether strap between the head restraint and the seatback: Routing the tether strap on top of the head restraint is dangerous. In a collision the tether strap could slide off the head restraint and loosen the child-restraint system. The child-restraint system could move which may result in death or injury to the child.

Always attach the tether strap to the correct tether anchor position: Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

### **CAUTION**

A seat belt or child-restraint system can become very hot in a closed vehicle during warm weather. To avoid burning yourself or a child, check them before you or your child touches them.

### CHILD SEAT POSITIONING

### A WARNING

- Please consult your Repairer for the latest details relating to Mazda recommended child seats.
- Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!
- When using a child seat with a support leg, the support leg must rest securely on the floor.
- When using a child seat with a seatbelt, make sure that the seat belt is not slack or twisted.

### **CAUTION**

The child seat must rest tightly against the vehicle seat. It may be necessary to lift or remove the head restraint. However, when installing a booster cushion, always install the vehicle head restraint to the seat where the booster cushion is installed. See **Head Restraints** (page 103).

### NOTE

When using a child seat on a front seat, always adjust the front passenger seat to its fully rearwards position. If it proves difficult to tighten the lap section of the seatbelt without slack remaining, adjust the seatback to the fully upright position and raise the height of the seat. See **Seats** (page 97).

	Mass group categories					
Seating positions	0	0+	1	2	3	
	Up to 10 kg	Up to 13 kg	9—18 kg	15—25 kg	22—36 kg	
Front outboard passenger seat with airbag <b>ON</b>	Х	Х	$UF^1$	$UF^1$	$UF^1$	
Front outboard passenger seat with airbag <b>OFF</b>	$U^1$	$U^1$	$\mathrm{U}^1$	$\mathrm{U}^1$	$\mathrm{U}^1$	
Rear seats	U	U	U	U	U	
Regular cab centre seat	Х	Х	Х	Х	Х	

X Not suitable for children in this mass group.

U Suitable for universal category child seats approved for use in this mass group.

 $\mathbf{U}^1$  Suitable for universal category child seats approved for use in this mass group. However, we recommend that you secure children in a government approved child seat, in the rear seat.

**UF**<sup>1</sup> Suitable for universal category forward facing child seats approved for use in this mass group. However, we recommend that you secure children in a government approved child seat, in the rear seat.

#### ISOFIX child seats \* - Double cab

		Mass group categories		
Coating positi		0+	1 Forward facing	
Seating position	JIIS	Rear facing		
		Up to 13 kg	9—18 kg	
Front seat	Size class	Not ISOFIX equipped		
Fiont seat	Seat type	Not ISOFIX equipped		
Rear outboard seat ISOFIX	Size class	E, D, C*	A, B, B1, C, D*	
Rear outboard seat ISOFIX	Seat type	IL**	IL,IUF***	
Rear centre seat	Size class	Not ISOFIX equipped		
Real centre seat	Seat type	Not ISOFI.	r equipped	

IL Suitable for particular ISOFIX child restraints systems of the **semi-universal** category. Please consult child restraints systems suppliers' vehicle recommendation lists.

IUF Suitable for ISOFIX forward facing child restraints systems of **universal** category approved for use in this mass group and ISOFIX size class.

\* The ISOFIX size class for both universal and semi-universal child restraints systems is defined by the capital letters A to G. These identification letters are displayed on ISOFIX child restraints.

\*\* At time of publishing the recommended Group O+ ISOFIX baby safety seat is the Britax Roemer Baby Safe. Please consult your Repairer for the latest details relating to Mazda recommended child seats.

\*\*\* At time of publishing the recommended Group 1 ISOFIX child seat is the Britax Roemer Safefix PLUS. Please consult your Repairer for the latest details relating to Mazda recommended child seats.

### **ISOFIX ANCHOR POINTS\***

### A WARNING

Use an anti-rotation device when using the ISOFIX system. We recommend that you use a top tether or a support leg.

#### NOTE

When you are purchasing an ISOFIX restraint, make sure that you know the correct mass group and ISOFIX size class for the intended seating locations. See **Child Seat Positioning** (page 14).

Your vehicle is fitted with ISOFIX anchor points that accommodate universally approved ISOFIX child restraints. The ISOFIX system comprises two rigid attachment arms on the child restraint that attach to anchor points on the 2nd row seats, where the cushion and backrest meet. Tether anchor points are fitted to the back panel trim for child restraints with a top tether.

# ▼Attaching a child restraint with a top tether

### A WARNING

Do not attach a tether strap to anything other than the correct tether anchor point.

#### Double cab





E132631

- 1. Remove the head restraint. However, when installing a booster cushion, always install the vehicle head restraint to the seat where the booster cushion is installed. See **Head Restraints** (page 103).
- 2. Place the child seat on the back seat cushion and fold the relevant seatback forward. See **Rear Seats** (page 104).

3. Route the tether strap to the anchor point.

# A WARNING

Make sure the top tether strap is not slack or twisted and is properly located on the anchor point.

4. Push the seatback to the upright position.

### *△ WARNING*

- Make sure that the seatback is secure and fully engaged in the catch.
- Make sure the safety seat is fitted correctly. There is a risk of injury.
- 5. Push the child seat back firmly to engage the ISOFIX lower anchor points.
- 6. Tighten the tether strap in line with the child seat manufacturers instructions.

We recommend that you use a tether strap where fitted.

### **BOOSTER SEATS**

### A WARNING

- Do not install a booster seat or a booster cushion with only the lap strap of the seat belt.
- Do not install a booster seat or a booster cushion with a seat belt that is slack or twisted.
- Do not put the seat belt under your child's arm or behind its back.
- Do not use pillows, books or towels to boost your child's height.
- Make sure that your children sit in an upright position.
- Secure children that weigh more than 15 kilograms (33 pounds) but are less than 150 centimetres (59 inches) tall in a booster seat or a booster cushion.

### **CAUTION**

When using a child seat on a rear seat, make sure that the child seat rests tightly against the vehicle seat. It maybe necessary to lift or remove the head restraint. However, when installing a booster cushion, always install the vehicle head restraint to the seat where the booster cushion is installed. See **Head Restraints** (page 103). Booster seat (Group 2)



E70710

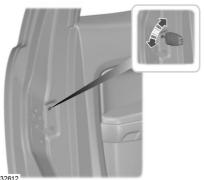
We recommend that you use a booster seat that combines a cushion with a backrest instead of a booster cushion only. The raised seating position will allow you to position the shoulder strap of the adult seat belt over the centre of your child's shoulder and the lap strap tightly across its hips.

#### **Booster cushion (Group 3)**



When using a booster cushion, always install the vehicle head restraint to the seat where the booster cushion is installed.

### CHILD SAFETY LOCKS



E132612

## *∆* WARNING

You cannot open the doors from inside if you have put the child safety locks on.

#### Left-hand side

Turn anti-clockwise to lock and clockwise to unlock.

#### **Right-hand side**

Turn clockwise to lock and anti-clockwise to unlock.

# PRINCIPLE OF OPERATION

### ▼ Supplementary Restraint Systems (SRS) Precautions

These systems operate independently depending on the type of accident encountered; if you have side and curtain air bags, the side and curtain air bags are not likely to deploy on both sides in the same accident because a vehicle is not often hit from both sides. The side and curtain air bags and the frontal air bag system will not normally deploy during the same type of accident unless a combination of frontal and side impacts occur.

The air bag supplementary restraint systems are designed to provide supplementary protection only in the front seats in certain situations and the rear outside passenger positions only in sameside collisions, so seat belts are always important in the following ways:

Without seat belt usage, the air bags cannot provide adequate protection during an accident. Seat belt usage is necessary to:

- Keep the occupant from being thrown into an inflating air bag.
- Reduce the possibility of injuries during an accident that is not designed for air bag inflation, such as roll-over or rear impact.
- Reduce the possibility of injuries in frontal or side collisions that are not severe enough to activate the air bags.
- Reduce the possibility of being thrown from your vehicle.

- Reduce the possibility of injuries to lower body and legs during an accident because the air bags provide no protection to these parts of the body.
- Hold the driver in a position which allows better control of the vehicle.

A child who is too small to use a seat belt must be properly secured using a childrestraint system.

See Child Restraint Precautions (page 9).

Carefully consider which child-restraint system is necessary for your child and follow the installation directions in this Owner's Manual as well as the childrestraint system manufacturer's instructions.

### A WARNING

Seat belts must be worn in air bag equipped vehicles: Depending only on the air bags for protection during an accident is dangerous. Alone, air bags may not prevent serious injuries. The appropriate air bags can be expected to inflate only in the first collision with frontal, near frontal or side forces that are at least moderate. Vehicle occupants should always wear seat belts.

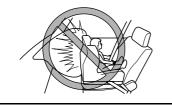
### MARNING

Children should not ride in the front passenger seat:

Placing a child, 12 years or under, in the front seat is dangerous. The child could be hit by a deploying air bag and be seriously injured or even killed. A sleeping child is more likely to lean against the door and be hit by the side air bag in moderate, right-side collision. Whenever possible, always secure a child 12 years and under on the rear seats with an appropriate child-restraint system for the child's age and size.

Extreme Hazard! Never use a rearfacing child-restraint system on the front passenger seat with an air bag that could deploy: Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!

Even in a moderate collision, the child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child. If your vehicle is equipped with a front passenger air bag deactivation switch, always set the switch to the OFF position when installing a rear-facing child-restraint system on the front passenger seat.



### **WARNING**

Do not sit too close to the driver and front passenger air bags: Sitting too close to the driver and front passenger air bag modules or placing hands or feet on them is extremely dangerous. The driver and front passenger air bags inflate with great force and speed. Serious injuries could occur if someone is too close. The driver should always hold onto only the rim of the steering wheel. The front seat passenger should keep both feet on the floor. Front seat occupants should adjust their seats as far back as possible and always sit upright against the seatbacks with seat belts worn properly.

# Sit in the centre of the seat and wear seat belts properly:

Sitting too close to the side air bag modules or placing hands on them is extremely dangerous. The side air bags inflate with great force and speed directly out of the outboard side of the front seat and expand along the front door on the side the car is hit. Serious injury could occur if someone is sitting too close to the door or leaning against a window, or if rear seat occupants grab the sides of the front seatbacks. Furthermore, sleeping up against the door or hanging out the windows in the vehicle could block the side and curtain air bags and eliminate the advantages of supplementary protection. Give the side and curtain air bags room to work by sitting in the centre of the seat while the vehicle is moving with seat belts worn properly.

Do not attach objects on or around the area where driver and front passenger air bags deploy:

Attaching an object to the driver and front passenger air bag modules or placing something in front of them is dangerous. In an accident, an object could interfere with air bag inflation and injure the occupants.

Do not attach objects on or around the area where a side air bag deploys: Attaching articles to the front seat in such a way as to cover the outboard side of the seat in any way is dangerous. In an accident the object could interfere with the side air bag, which inflates from the outboard side of the front seats, impeding the added protection of the side air bag system or redirecting the air bag in a way that is dangerous. Furthermore, the bag could be cut open releasing the gas. Do not hang net bags, map pouches or backpacks with side straps on the front seats. Never use seat covers on the front seats. Always keep the side air bag modules in your front seats free to deploy in the event of a side collision.

### A WARNING

Do not attach objects on or around the area where a curtain air bag deploys: Attaching objects to the areas where the curtain air bag activates such as on the windscreen glass, side door glass, front and rear window pillars and along the roof edge and assist grips is dangerous. In an accident the object could interfere with the curtain air bag, which inflates from the front and rear window pillars and along the roof edge, impeding the added protection of the curtain air bag system or redirecting the air bag in a way that is dangerous. Furthermore, the bag could be cut open releasing the gas.

Do not place hangers or any other objects on the assist grips. When hanging clothes, hang them on the coat hook directly. Always keep the curtain air bag modules free to deploy in the event of a side collision.

Do not touch the components of the supplementary restraint system after the air bags have inflated: Touching the components of the supplementary restraint system after the air bags have inflated is dangerous. Immediately after inflation, they are very hot. You could get burned.

<u>Never install any front-end equipment</u> to your vehicle:

Installation of front-end equipment, such as frontal protection bar (kangaroo bar, bull bar, push bar, or other similar devices), snowplow, or winches, is dangerous. The air bag crash sensor system could be affected. This could cause air bags to inflate unexpectedly, or it could prevent the air bags from inflating during an accident. Front occupants could be seriously injured.

Do not modify the suspension: Modifying the vehicle suspension is dangerous. If the vehicle's height or the suspension is modified, the vehicle will be unable to accurately detect a collision resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.

### **WARNING**

Do not modify the supplementary restraint system: Modifying the components or wiring of the supplementary restraint system is dangerous. You could accidentally activate it or make it inoperable. Do not make any modifications to the supplementary restraint system. This includes installing trim, badges, or anything else over the air bag modules. It also includes installing extra electrical equipment on or near system components or wiring. An expert repairer, we recommend an Authorised Mazda Repairer can provide the special care needed in the removal and installation of front seats. It is important to protect the side and curtain air bag wiring and connections to assure that the bags do not accidentally deploy and that the seats retain an undamaged air bag connection.

Do not place luggage or other objects under the front seats: Placing luggage or other objects under the front seats is dangerous. The components essential to the supplementary restraint system could be damaged, and in the event of a side collision, the appropriate air bags may not deploy, which could result in death or serious injury. To prevent damage to the components essential to the supplementary restraint system, do not place luggage or other objects under the front seats.

#### NOTE

- When an air bag deploys, a loud inflation noise can be heard and some smoke will be released. Neither is likely to cause injury, however, the texture of the air bags may cause light skin injuries on body parts not covered with clothing through friction.
- Should you sell your Mazda, we urge you to tell the new owner of its air bag systems and that familiarization with all instructions about them, from the Owner's Manual, is important.
- This highly-visible label warns against the use of rear-facing child-restraint systems in the front seat.



E133140

### ▼ Seat Belt Precautions

Seat belts help to decrease the possibility of severe injury during accidents and sudden stops. Mazda recommends that the driver and all passengers always wear seat belts.

# With 3-point type seat belt for the rear centre seat

All the seats have lap/shoulder belts. These belts have retractors with inertia locks that keep them out of the way when not in use. The locks allow the belts to remain comfortable on users, but they'll lock in position during a collision.

# With 2-point type seat belt for the rear centre seat

The front and rear outboard seats have lap/shoulder belts. These belts have retractors with inertia locks that keep them out of the way when not in use. The locks allow the belts to remain comfortable on users, but they'll lock in position during a collision. The centrerear seat has a lap belt with manual adjustment.

In some models (with automatic locking mode), the rear outboard seat belt retractors operate in two modes, emergency locking mode and, for childrestraint systems, automatic locking mode.

<u>Always wear your seat belt and make</u> sure all occupants are properly restrained:

Not wearing a seat belt is extremely dangerous. During a collision, occupants not wearing seat belts could hit someone or things inside the vehicle or even be thrown out of the vehicle. They could be seriously injured or even killed. In the same collision, occupants wearing seat belts would be much safer.

Do not wear twisted seat belts: Twisted seat belts are dangerous. In a collision, the full width of the belt is not available to absorb the impact. This puts more force on the bones beneath the belt, which could cause serious injury or death. So, if your seat belt is twisted, you must straighten the seat belt to remove any twists and to allow the full width of the belt to be used.

Never use one seat belt on more than one person at a time: Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way cannot spread the impact forces properly and the two passengers could be crushed together and seriously injured or even killed. Never use one belt for more than one person at a time and always operate the vehicle with each occupant properly restrained.

### A WARNING

Do not operate a vehicle with a damaged seat belt: Using a damaged seat belt is dangerous. An accident could damage the belt webbing of the seat belt in use. A damaged seat belt cannot provide adequate protection in a collision. Have an expert repairer, we recommend an Authorised Mazda Repairer inspect all seat belt systems in use during an accident before they are used again.

# Positioning the Shoulder Portion of the Seat Belt:

Improper positioning of the shoulder portion of the seat belt is dangerous. Always make sure the shoulder portion of the seat belt is positioned across your shoulder and near your neck, but never under your arm, on your neck, or on your upper arm.

# Positioning the Lap Portion of the Seat Belt:

The lap portion of the seat belt worn too high is dangerous. In a collision, this would concentrate the impact force directly on the abdominal area, causing serious injury. Wear the lap portion of the belt snugly and as low as possible.

Instructions for Use of Seat Belt Assemblies:

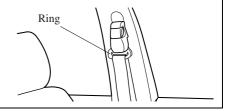
- Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.
- Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.
- Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated, or damaged.
- It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.
- Belts should not be worn with straps twisted.
- Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

### A WARNING

 No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

### **CAUTION**

Belt retraction may become difficult if the belts and rings are soiled, so try to keep them clean. For more details about cleaning the seat belts.



### ▼Airbags

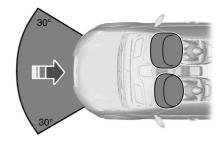
### A WARNING

- Do not modify the front of your vehicle in any way. This could adversely affect deployment of the airbags.
- Original text according to the UNECE <sup>\*1</sup> 94.01 regulation: Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!
- \*1 UNECE stands for United Nations Economic Commission for Europe
- Wear a seat belt and keep sufficient distance between yourself and the steering wheel. Only when you use the seat belt properly, can it hold you in a position that allows the airbag to achieve its optimum effect. See Sitting in the Correct Position (page 97).
- Have repairs to the steering wheel, steering column, seats, airbags and seat belts carried out by a properly trained technician.
- Keep the areas in front of the airbags free from obstruction. Do not affix anything to or over the airbag covers.
- Do not poke sharp objects into areas where airbags are fitted. This could damage and adversely affect deployment of the airbags.
- Use seat covers designed for seats with side airbags. Have these fitted by a properly trained technician.

#### NOTE

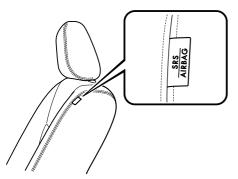
- You will hear a loud bang and see a cloud of harmless powdery residue if an airbag deploys. This is normal.
- Only wipe airbag covers with a damp cloth.

#### Driver and front passenger airbags



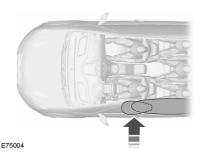
E74302

The driver and front passenger airbags will deploy during significant frontal collisions or collisions that are up to 30 degrees from the left or the right. The airbags will inflate within a few thousandths of a second and deflate on contact with the occupants, thus cushioning forward body movement. During minor frontal collisions, overturns, rear collisions and side collisions, the driver and front passenger airbags will not deploy. Side airbags



Side airbags are fitted inside the seatback of the front seats. A label indicates that side airbags are fitted to your vehicle. The side airbags will deploy during significant lateral collisions. The airbags will inflate within a few thousandths of a second and deflate on contact with the occupants, thus providing protection for the chest and shoulder areas. During minor lateral collisions, overturns, front collisions and rear collisions, the side airbags will not deploy.

#### Curtain airbags



Curtain airbags are fitted inside the trim panels over the front and rear side windows. Moulded badges in the B-pillar trim panels indicate that curtain airbags are fitted to your vehicle. The curtain airbags will deploy during significant lateral collisions. The airbag will inflate within a few thousandths of a second and deflate on contact with the occupants, thus providing protection for the head. During minor lateral collisions, front collisions, rear collisions, or overturns the curtain airbags will not deploy.

### ▼Seat belts

### A WARNING

- Wear a seat belt and keep sufficient distance between yourself and the steering wheel. Only when you use the seat belt properly, can it hold you in a position to achieve its optimum effect. See Sitting in the Correct Position (page 97).
- Never use a seat belt for more than one person.
- Use the correct buckle for each seat belt.
- Do not use a seat belt that is slack or twisted.
- Do not wear thick clothing. The seatbelt must fit tightly around your body to achieve its optimum effect.
- Position the shoulder strap of the seat belt over the centre of your shoulder and position the lap strap tightly across your hips.

The driver and front passenger seat belt retractors are fitted with a seat belt pretensioner. Seat belt pretensioners have a lower deployment threshold than the airbags. During minor collisions, it is possible that only the seat belt pretensioners will deploy.

Status after a collision

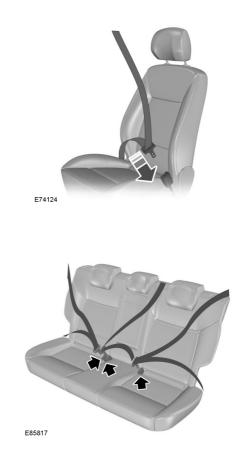
## A WARNING

Seat belts subjected to strain, as a result of an accident, should be renewed and the anchorages checked by a properly trained technician.

#### FASTENING THE SEAT BELTS

## A WARNING

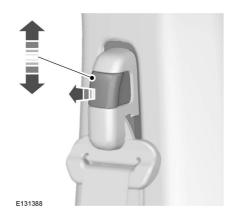
Insert the tongue into the buckle until you hear a distinct click. You have not fastened the seat belt properly if you do not hear a click.



Pull the belt out steadily. It may lock if you pull it sharply or if the vehicle is on a slope.

Press the red button on the buckle to release the belt. Let it retract completely and smoothly.

## SEAT BELT HEIGHT ADJUSTMENT\*



To raise or lower, pull the locking button on the adjuster and move as necessary.

#### **SEAT BELT REMINDER\***

## A WARNING

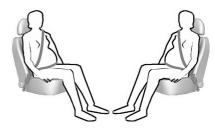
The occupant protection system will only provide optimum protection when you use the seat belt properly.



**Type 1:** The seat belt warning lamp will be illuminated for 6 seconds when the ignition is turned on to remind the driver to fasten the seatbelt.

**Type 2:** The seat belt reminder warning lamp illuminates and an audible warning will sound if the driver or front passenger seat belt has not been fastened and the vehicle exceeds a relatively low speed. It will also illuminate if either of the seat belt is unfastened when the vehicle is moving. The audible warning will go off after five minutes but the seat belt reminder warning lamp will remain on until the seat belt is fastened.

## USING SEAT BELTS DURING PREGNANCY



E68587

## A WARNING

Position the seat belt correctly for your safety and that of your unborn child. Do not use only the lap strap or the shoulder strap.

Position the lap strap comfortably across your hips and low beneath your pregnant abdomen. Position the shoulder strap between your breasts, above and to the side of your pregnant abdomen.

## DISABLING THE PASSENGER AIRBAG

## A WARNING

Make sure that the passenger airbag is disabled when using a rearward facing child restraint on the front passenger seat.



E131289

▼ Fitting the passenger airbag deactivation switch

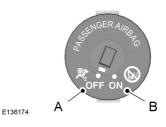
## A WARNING

If you need to fit a child restraint on a seat protected by an operational airbag in front of it, have a passenger airbag deactivation switch fitted. Ask your dealer for further information.

#### NOTE

The key switch is located in the glove compartment with an airbag deactivation lamp in the instrument panel. If the airbag warning lamp illuminates or flashes when you are driving, this indicates a malfunction. Remove the child restraint and have the system checked immediately.

## ▼Disabling the passenger airbag\*



А	Disabled
В	Enabled

Turn the switch to position A.



When you switch the ignition on, the passenger airbag OFF warning lamp illuminates indicating that the passenger airbag is disabled. For item location: See **At a Glance** (page 3).

## ▼Enabling the passenger airbag

## A WARNING

Make sure that the passenger airbag is enabled when you are not using a child restraint on the front passenger seat.

Turn the switch to position **B**.



When you switch the ignition on, the passenger airbag ON warning lamp illuminates indicating that the passenger airbag is enabled. For item location: See **At a Glance** (page 3).

## **CONSTANT MONITORING**

The following components of the air bag systems are monitored by a diagnostic system:

- Crash sensors, and diagnostic module (SAS unit)
- Front air bag sensors
- Air bag modules
- · Side crash sensors
- Air bag/Seat belt pretensioner system warning light
- · Seat belt pretensioners
- · Related wiring

The diagnostic module continuously monitors the system's readiness. This begins when the ignition is switched ON and continues while the vehicle is being driven.

#### GENERAL INFORMATION ON RADIO FREQUENCIES

## **CAUTION**

- The radio frequency used by your remote control can also be used by other short distance radio transmissions (e.g. amateur radios, medical equipment, wireless headphones, remote controls and alarm systems). If the frequencies are jammed, you will not be able to use your remote control. You can lock and unlock the doors with the key.
- Check your vehicle is locked before leaving it unattended. This will safeguard against any potential malicious frequency blocking.

#### NOTE

You could unlock the doors if you press the buttons on the remote control unintentionally.

The operating range between your remote control and your vehicle varies depending on the environment.

# PROGRAMMING THE REMOTE CONTROL

#### NOTE

Additional remote controls can be programmed only if the vehicle is supplied with at least one remote control.

A maximum of eight remote controls (including the one supplied with your vehicle) can be programmed. The remote controls must remain inside the vehicle during the programming procedure. Fasten the front seat belts and close all doors to ensure that conflicting chimes do not sound during programming.

#### ▼ Programming a new remote control

- 1. To programmeme new remote controls turn the ignition key to position **II** four times within six seconds.
- 2. Turn the ignition to position **0**. A tone sounds to indicate that it is now possible to programmeme the remote controls for ten seconds.
- 3. Press any button on a new remote control. A tone will sound as confirmation.
- 4. Repeat this last step for all your remote controls, including your original. Do not remove the key from the ignition when pressing the button on this remote control.

5. Switch the ignition back on (position **II**) or wait for ten seconds without programming another remote control to end the key programming. Only the remote controls which you have just programmed are now able to lock and unlock the vehicle.

## ▼ Reprogramming the unlocking function

#### NOTE

When you press the unlock button either all the doors are unlocked or only the driver's door is unlocked. Pressing the unlock button again unlocks all the doors.

Press and hold the unlock and lock buttons on the transmitter simultaneously for at least four seconds with the ignition off. The direction indicators will flash twice to confirm the change. To return to the original unlocking function, repeat the process.

#### ▼ Programming the additional key

#### NOTE

The additional keys can be programmed only if you already have two programmed keys.

- 1. Insert the first key and switch on the ignition.
- 2. Remove the key within 10 seconds.
- 3. Insert the second key within 10 seconds and switch on the ignition.
- 4. Remove the key within 10 seconds.

5. Insert the additional key within 10 seconds which need to be programmed.

## CHANGING THE REMOTE CONTROL BATTERY



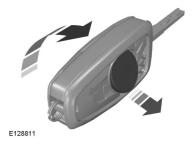
Make sure that you dispose of old batteries in an environmentally friendly way. Seek advice from your local authority regarding recycling.



- 1. Insert a screwdriver in the position shown and gently push the clip.
- 2. Press the clip down to release the battery cover.



3. Carefully remove the cover.



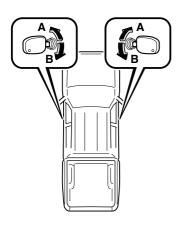
- 4. Turn the remote control over to remove the battery.
- 5. Install a new battery (3V CR 2032) with the + facing upwards.
- 6. Replace the battery cover.

## LOCKING AND UNLOCKING

#### NOTE

Do not leave your keys in the vehicle.

# ▼ Locking and unlocking the doors with the key



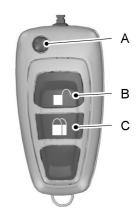
А	Unlock
В	Lock

#### NOTE

To double lock the doors, turn the key to the lock position twice within three seconds.

# ▼ Locking and unlocking the doors with the remote control

Automatic relocking: The doors will relock automatically if you do not open a door within 45 seconds of unlocking the doors with the remote control. The door locks and the alarm will return to their previous state.



А	Key fold/unfold button
В	Unlock
С	Lock

Press the button **B** once to unlock the vehicle.

Press the button **C** once to activate central locking.

#### NOTE

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Central locking is activated only when all the passenger doors are closed.

Press the button **C** twice within four seconds to double lock the doors.\*

#### NOTE

Double locking is activated only when all the passenger doors are closed and the bonnet is closed in the vehicle fitted with alarm.

## A WARNING

Do not activate double locking when persons or animals are inside the vehicle. You will not be able to unlock the doors from inside if you have double locked them.

#### NOTE

If the ignition is switched on with the double locking function activated, the lock will automatically return to single lock stage.

Double locking is a theft protection feature that prevents someone from opening the doors from the inside.

#### NOTE

- The driver's door can be unlocked with the key. This needs to be used if the remote control is not functioning.
- If the vehicle remains locked for several weeks, the remote control will be disabled. The vehicle must be unlocked and the engine started using the key. Unlocking and starting the vehicle once will enable the remote control.

#### Reprogramming the unlocking function

The unlocking function may be reprogrammed so that only the driver's door is unlocked. See **Programming the remote control** (page 35).

#### Locking and unlocking confirmation

#### NOTE

When you lock the doors, the direction indicators will flash once. When you double lock the doors, the direction indicators will flash twice. When you unlock the doors the direction indicators will flash one long flash.

#### ▼Child play protection function

If the remote control buttons are pressed continuously several times, the locking and unlocking function will be blocked for awhile to avoid door latches from overheating.

# ▼ Locking and unlocking the doors from inside



Press the button. For item location. See At a Glance (page 3).

#### ▼ Driver configuration mode

#### NOTE

This operation has to be done within **30** seconds.

- 1. Switch the ignition ON.
- 2. Press door lock button three times.
- 3. Switch the ignition OFF.
- 4. Press door lock button three times.
- 5. Switch the ignition ON.
- 6. Press door lock button two times.

The system will chirp to indicate that the driver configuration mode is enabled. Once in driver configuration mode, follow the steps mentioned below to toggle the status of the automatic locking by speed or automatic unlocking.

#### Automatic locking by speed

#### NOTE

Automatic locking by speed is default disabled.

Press the central lock or unlock button twice within three seconds and wait for three seconds to toggle the automatic locking by speed function. The system will chirp when toggling.

#### Automatic unlocking

#### NOTE

Automatic unlock is default enabled.

Press the central lock or unlock button three times within three seconds and wait for three seconds to toggle the automatic unlocking function.

If the automatic unlocking function is enabled:

• All doors will be unlocked while opening the driver door or front passenger door (vehicles not delivered with remote control) from inside, with the key in ignition.

If the automatic unlocking function is disabled:

• Only the respective door will be unlocked while opening from inside.

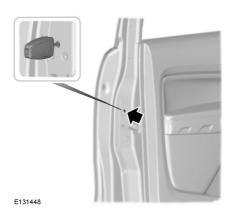
#### NOTE

Opening the rear doors will never unlock the other doors, when opened from inside.

# ▼ Locking the doors individually with the key

#### NOTE

If the central locking function fails to operate, the doors can be individually locked using the key in the position shown.



#### Left-hand side

Turn clockwise to lock.

#### **Right-hand side**

Turn anti-clockwise to lock.

#### Unlocking

#### NOTE

- If the child safety locks have also been activated, pulling the internal lever will only deactivate the emergency locking and not the child safety lock. The doors can only be opened using the external door handle.
- If the doors have been unlocked, they have to be locked individually using this method until the central locking function has been repaired. Unlock the driver's door using the key. The other doors can be unlocked individually by pulling the interior door handles on those doors.

# PRINCIPLE OF OPERATION

The engine immobiliser is a theft protection system that prevents someone from starting the engine with an incorrectly coded key.

## **CAUTION**

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- To avoid damage to the key, do not:
  - Drop the key.
  - Get the key wet.
  - Expose the key to any kind of magnetic field.
  - Expose the key to high temperatures on places such as the instrument panel or bonnet, under direct sunlight.
- If the engine does not start with the correct key, and the security indicator light keeps illuminating or flashing, the system may have a malfunction. Consult an Authorised Mazda Repairer.

#### Modification and Add-On Equipment

Mazda cannot guarantee the immobilizer system's operation if the system has been modified or if any add-on equipment has been installed.

## **CAUTION**

To avoid damage to your vehicle, do not modify the system or install any add-on equipment to the immobilizer system or the vehicle.

## **CODED KEYS**

#### NOTE

- Do not shield your keys with metal objects. This may prevent the receiver from recognising your key as a valid one.
- Have all of your remaining keys erased and recoded if you lose a key. Ask your repairer for further information. Have replacement keys recoded together with your existing keys.

If you lose a key, you can obtain are placement from your Authorised Mazda Repairer. If possible, provide them with the key number from the tag provided with the original keys. You can also obtain additional keys from your Authorised Mazda Repairer.

# ARMING THE ENGINE IMMOBILISER

The engine immobiliser is armed automatically a short time after you have switched the ignition off.

The indicator in the instrument cluster will flash to confirm that the system is operating.

## DISARMING THE ENGINE IMMOBILISER

The engine immobiliser is disarmed automatically when you switch the ignition on with a correctly coded key. The indicator in the instrument cluster will come on for approximately three seconds and then go out. If the indicator stays on for one minute or flashes for approximately one minute and then repeatedly at irregular intervals, your key has not been recognised. Remove the key and try again.

If you are unable to start the engine with a correctly coded key, this indicates a malfunction. Have the immobiliser checked immediately.

# PRINCIPLE OF OPERATION

Your vehicle may have one of the following alarm systems:

- Perimeter alarm with interior sensors.
- Perimeter alarm with interior sensors and battery back-up sounder.

The perimeter alarm is a deterrent against unauthorised access to your vehicle through the doors and the bonnet.

#### **Interior sensors**



Arming the alarm will activate the interior sensors. See **Arming the alarm** (page 47).

## A WARNING

- Do not cover up the interior lamp unit sensors.
- Do not arm the alarm with full guard if passengers, animals or other moving objects are inside your vehicle.
- Do not leave the rear seat cushion folded up in the double cab when the interior sensors are armed.
- Do not leave the glasses holder open.

#### NOTE

- To permanently deactivate the interior motion sensor, see an Authorised Mazda Repairer.
- Fuel fired heater may trigger false alarms. If you are using the fuel fired heater, direct the air flow towards the foot well.

#### Alarm Horn

#### Battery back-up sounder

The battery back-up sounder is an extra alarm system which will sound a siren when the alarm is triggered. When you lock your vehicle the system is armed. The sounder has its own battery and will sound an alarm siren even if someone disconnects your vehicle battery or the battery back-up sounder itself.

#### ▼ Triggering the alarm

Once armed, the alarm is triggered in any of the following ways:

- If someone opens a door or the bonnet without a valid key or remote control.
- If someone removes the multi function display.
- If you switch the ignition on without a valid key.
- If the interior sensors detect movement within the vehicle.
- On vehicles with a battery back-up sounder, if someone disconnects the vehicle battery or the battery back-up sounder itself.

If the alarm is triggered, the alarm horn will sound for 30 seconds and the hazard warning flasher will flash for five minutes.

Any further attempts to perform one of the above will trigger the alarm again.

#### ▼ Full and Reduced Guard \*

#### Full Guard

Full guard is the standard setting. In full guard, the interior sensors are on when you arm the alarm.

#### NOTE

This may result in false alarms if animals or moving objects are inside your vehicle.

#### **Reduced Guard**

#### NOTE

To switch this feature on or off, see an Authorised Mazda Repairer.

In reduced guard, the interior sensors are off when you arm the alarm.

#### NOTE

Reduced guard is available only on vehicles with remote central locking.

#### Selecting Full or Reduced Guard

Locking the doors with the key will activate reduced guard.

To deactivate reduced guard, unlock the doors with the key or remote control. To activate full guard, lock the doors with the remote control.

#### NOTE

You can set the alarm to reduced guard for the current locking cycle only. The alarm will reset to full guard the next time you unlock and then relock the vehicle with the remote control.

## **ARMING THE ALARM**

To arm the alarm, lock the vehicle. See **Locks** (page 38).

## **DISARMING THE ALARM**

Disarm and silence the alarm by unlocking the doors with the key and inserting the key into the ignition switch with a correctly coded key within 12 seconds, or unlocking the doors with the remote control.

## ADJUSTING THE STEERING WHEEL

## A WARNING

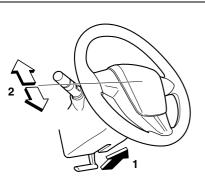
Never adjust the steering wheel when the vehicle is moving.

#### NOTE

Make sure that you are sitting in the correct position. See **Sitting in the Correct Position** (page 97).

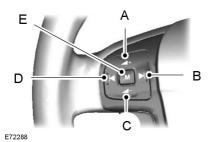
## A WARNING

Make sure that you fully engage the locking lever when returning it to its original position.





## **AUDIO CONTROL**



А	Volume up
В	Seek up
С	Volume down
D	Seek down
E	Mode

#### ▼ Mode

Press and **hold** the mode button to select the audio source.

Press the mode button to:

- tune the radio to the next preset station
- accept an incoming telephone call
- end a telephone call.

#### **▼**Seek

Press the seek button to:

- tune the radio to the next station up or down the frequency band
- play the next or the previous CD track.

Press and **hold** the seek button to:

- tune the radio up or down the frequency band
- seek through a CD track.

## **VOICE CONTROL\***



A Voice control

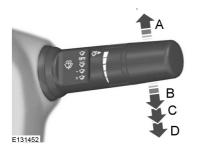


Press the voice control button to select or deselect voice control. For further information: See **Voice control** (page 49).

## WINDSCREEN WIPERS

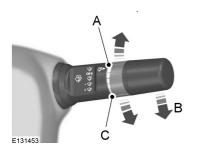
## **CAUTION**

Operating this function with the engine off will drain the battery.



А	Single wipe
В	Intermittent wipe or auto wipers
С	Normal wipe
D	High speed wipe

#### ▼Intermittent wipe

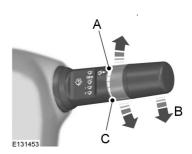


А	Long wipe interval
В	Intermittent wipe
С	Short wipe interval

## AUTOWIPERS

## A WARNING

- Do not switch autowipers on in dry weather conditions. The rain sensor is very sensitive and the wipers may operate if dirt, mist or flies hit the windscreen.
- Replace the wiper blades as soon as they begin to leave bands of water and smears. If you do not replace them, the rain sensor will continue to detect water on the windscreen and the wipers will operate, even though the majority of the windscreen is dry.
- Fully defrost the windscreen in icy conditions before you switch autowipers on.
- Switch autowipers off before you enter a car wash.



А	High sensitivity
В	On
С	Low sensitivity

If you switch autowipers on, the wipers will not cycle until water is detected on the windscreen. The rain sensor will then continuously measure the amount of water on the windscreen and adjust the speed of the wipers automatically.

Adjust the sensitivity of the rain sensor by turning switch on the wiper lever. With low sensitivity, the wipers will operate when the sensor detects a lot of water on the windscreen. With high sensitivity, the wipers will operate if the sensor detects a small amount of water on the windscreen.

### WINDSCREEN WASHERS

## **CAUTION**

Operating this function with the engine off will drain the battery.



E131460

## A WARNING

Do not operate the windscreen washers for more than 10 seconds or when the reservoir is empty.

#### CHECKING THE WIPER BLADES



Run the tip of your fingers over the edge of the blade to check for roughness. Clean the wiper blade lips with water applied with a soft sponge.

## CHANGING THE WIPER BLADES

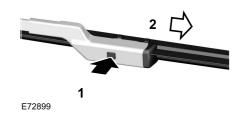
▼ Changing the windscreen wiper blades

#### NOTE

- The windscreen wiper blades are different in length.
- If you install wiper blades of the wrong length, the wiper blades can clash damaging the wiper system.



1. Pull the wiper blade and arm away from the glass.



2. Press and hold the locking button.

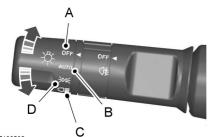
- 3. Remove the wiper blade.
- 4. Install in the reverse order.

#### NOTE

Make sure that the wiper blade locks into place.

## LIGHTING CONTROL

#### ▼ Lighting control positions



E133582

А	Off
В	Auto-light control
С	Headlamps
D	Side and tail lamps

#### ▼High and dipped beam



E133583

Push the lever forward to switch between high and dipped beam.

#### Headlamp flasher

Pull the lever towards the steering wheel.

#### ▼Approach lamps

The side lamps and number plate lamps will come on and stay illuminated for 25 seconds when the vehicle is unlocked with the remote control.

If a door is opened, the lights will stay on until the door is closed, ignition is turned on or for 10 minutes.

#### ▼Emergency stop signal

Your Mazda is equipped with an emergency stop signal system that is designed to determine whether you are depressing the brake pedal with greater force than during normal braking such as in a situation requiring emergency braking. If the system determines that such a situation is occurring, it flashes all the direction indicators rapidly to caution the driver of the vehicle following behind your vehicle of the sudden braking situation.

The system is cancelled when the brake pedal is released or the system determines that the brake pedal is no longer heavily depressed based on the rate at which the vehicle speed decreases.

#### NOTE

- If you bring your vehicle to a complete stop while all the direction indicators are flashing rapidly, the rapid flashing of all the direction indicators changes back to the normal flashing pattern.
- The emergency stop signal system does not operate at vehicle speeds under about 50 km/h (30 mph).
- If the brake pedal is depressed while driving on slippery roads, the emergency stop signal system could operate causing all the turn and lane change signals to flash.

## **AUTOLAMPS**

## A WARNING

In severe weather conditions, it maybe necessary to switch your headlamps on manually.



E133599

#### NOTE

If you have switched autolamps on, you can only switch the high beam on when autolamps has switched the headlamps on.

The headlamps will come on and go off automatically depending on the ambient light.

## **RUNNING LAMPS**

## A WARNING

The autolamps switch position may not activate the headlamps in all low visibility conditions, such as daytime fog. Always ensure that your headlamps are switched to auto or on, as appropriate, during all low visibility conditions. Failure to do so may result in a crash.

To switch the system on:

- 1. Switch the ignition on.
- 2. Switch the lighting control to the off or autolamp position.

## **FRONT FOG LAMPS\***

#### ▼ Control lever



E133585

## A WARNING

Only use the front fog lamps when visibility is considerably restricted by fog, snow or rain.

#### NOTE

You cannot switch the front fog lamps on unless you have switched the headlamps on.

## **REAR FOG LAMPS\***



E136254

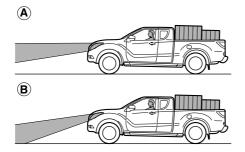
## **WARNING**

- Only use the rear fog lamps when visibility is restricted to less than 50 metres (164 feet).
- Do not use the rear fog lamps when it is raining or snowing and visibility is more than 50 metres (164 feet).

#### NOTE

You cannot switch the rear fog lamps on unless you have switched the headlamps and front fog lamp on.

## **HEADLAMP LEVELLING\***



А	Without headlamp levelling
В	With headlamp levelling

You can adjust the level of the headlamp beams according to the vehicle load.



E133544

А	Raised headlamp beams
В	Lowered headlamp beams

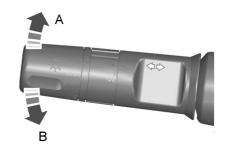
Set the headlamp levelling control to zero when your vehicle is unloaded. Set it to provide illumination between 35 and 100 metres (114 and 328 feet) when your vehicle is partially or fully loaded.

## HAZARD WARNING FLASHERS



For item location: See **At a Glance** (page 3).

## **DIRECTION INDICATORS**

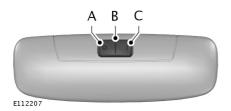


E131285

А	Right-hand side
В	Left-hand side

## **INTERIOR LAMPS**

#### ▼Courtesy lamp



А	Off
В	Door contact
С	On

If you set the switch to position **B**, the courtesy lamp will come on when you unlock or open a door. If you leave a door open with the ignition switch off, the courtesy lamp will go off automatically after some time to prevent the vehicle battery from discharging. To switch it back on, switch on the ignition for a short time.

The courtesy lamp will also come on when you switch off the ignition. It will go off automatically after a short time or when you start or restart the engine. If you set the switch to position  $\mathbf{C}$  with the ignition switch off, the courtesy lamp will come on. It will go off automatically after a short time to prevent the vehicle battery from discharging. To switch it back on, switch on the ignition for a short time.

## **CHANGING A BULB**

## A WARNING

- Switch the lights and the ignition off.
- Let the engine compartment and the bulb cool down before removing it.

## **CAUTION**

Only fit bulbs of the correct specification. See **Bulb Specification Chart** (page 67).

#### NOTE

The following instructions describe how to remove the bulbs. Fit replacements in the reverse order unless otherwise stated.

You may notice fogging or small water droplets in the lamp units from time to time. This does not affect the function of the lamp, and will clear when the lamps are turned on and the vehicle is driven.

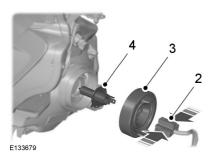
#### NOTE

If in any doubt about any of the following bulb replacement procedures, please have the bulb replaced by your Authorised Mazda Repairer.

#### ▼Headlights high and low beam

## **CAUTION**

- Do not touch the glass of the bulb.
- Ensure bulb is correctly seated before replacing the spring clip. Checking the bulb location through the front of the headlamp lens can be a useful aid to ensuring the bulb is correctly aligned.



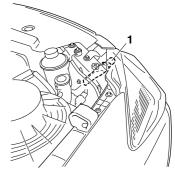
- 1. Open the bonnet. See **Opening and Closing the Bonnet** (page 169).
- 2. Disconnect the electrical connector by pressing in the spring releases on both sides of the connector.
- 3. Remove the rubber boot.
- 4. Release the bulb retaining spring clip and remove the bulb.
- 5. Insert the replacement bulb and retain it using the spring clip.

#### NOTE

Ensure that the rubber boot seals correctly against the bulb and headlight housing and that it is not out of shape while installing.

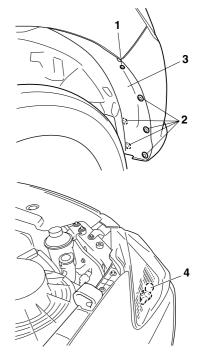
# ▼ Side lamps, running lamp and front direction indicators

#### Side lamp/Running lamp



1. Remove the bulb.

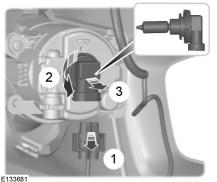
#### Front direction indicator



## Lighting

- 1. Remove the screw.
- 2. Remove the retainers.
- 3. Partially peel back the mudguard.
- 4. Remove the bulb.

#### **▼**Front fog lamps



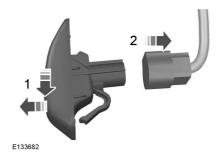
#### 2100001

#### NOTE

You cannot separate the bulb from the bulb holder.

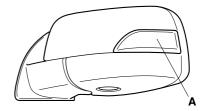
- 1. Disconnect the electrical connector.
- 2. Turn the bulb holder anti-clockwise and remove it.

#### ▼Side direction indicator light



- 1. Slide the lens to the rear and remove it.
- 2. Disconnect the electrical connector.

#### ▼Exterior mirror lamps



Side direction indicator light

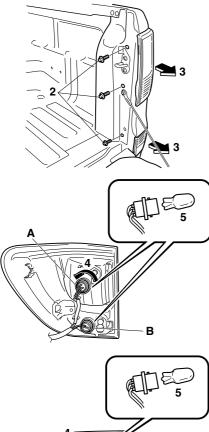
#### NOTE

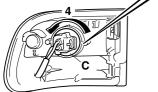
А

These are not serviceable items, please consult your repairer if they fail.

#### ▼Rear lamps

#### Type 1

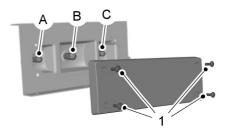




А	Tail and brake lamp
В	Direction indicator
С	Reversing lamp/Rear fog lamp

- 1. Open the tailgate.
- 2. Remove the screws.
- 3. Remove the rear lamp.
- 4. Turn the bulb holder anti-clockwise and remove it.
- 5. Remove the bulb.

#### Type 2



E133685

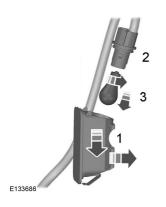
А	Direction indicator
В	Tail and brake lamp
С	Reversing lamp

- 1. Remove the screws.
- 2. Remove the lens.
- 3. Remove the bulb.

## Lighting

#### ▼Number plate lamp

Type 1



- 1. Slide the unit away from the connector and remove it.
- 2. Remove the connector with bulb.
- 3. Remove the bulb.

#### Type 2

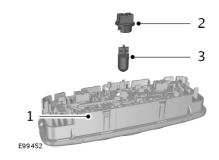


E133687

- 1. Remove the screws.
- 2. Remove the lens.
- 3. Remove the bulb.

## ▼Interior lamp

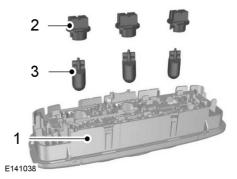
Freestyle and double cab



- 1. Carefully prise out the lamp.
- 2. Turn the bulb holder anti-clockwise and remove it.
- 3. Remove the bulb.

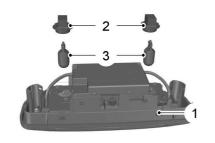
#### ▼Front map lamp

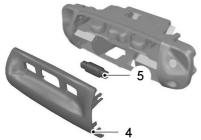
#### Without alarm sensor



- 1. Carefully prise out the lamp.
- 2. Turn the bulb holder anti-clockwise and remove it.
- 3. Remove the bulb.

#### With alarm sensor

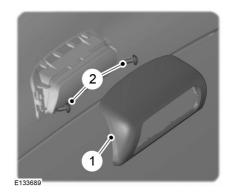




E140992

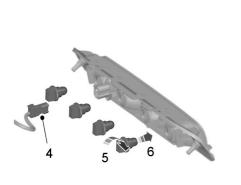
- 1. Carefully prise out the lamp.
- 2. For reading lamps, turn the bulb holder anti-clockwise and remove it.
- 3. Remove the bulb.
- 4. For centre lamp, carefully prise out the lamp lens.
- 5. Remove the bulb.

## ▼ Centre high mount stop lamp Type 1



E133756

# Lighting



E133755

- 1. Remove the cover.
- 2. Remove the screws.
- 3. Carefully prise out the lamp.
- 4. Disconnect the electrical connector.
- 5. Remove the bulb holder by turning it to 45 degree anticlockwise.
- 6. Remove the bulbs.

# **BULB SPECIFICATION CHART**

Bulb	Specification	Power (watts)
Headlights high and low beam	H4	55/60
Front direction indicator	P21W	21
Side lamp (Without running lamp)	W5W	5
Side lamp and running lamp (With running lamp)	W21/5W	21/5
Front fog lamp	H11	55
Side direction indicator light <sup>*</sup>	_	5
Rear direction indicator	WY21W	21
Tail and brake lamp	W21/5W	21/5
Reversing lamp	W21W	21
Rear fog lamp	W21W	21
Number plate lamp	W5W	5
Interior lamp	W5W	5
Centre high mount stop lamp	W5W	5

\*1 Bulb replacement is not possible as the bulb is an integral part of the unit. The side direction indicator light unit has to be changed.

# **POWER WINDOWS**

# A WARNING

Do not operate the electric windows unless they are free from obstruction.

Make sure the opening is clear before closing a window: Closing power windows are dangerous. A person's hands, head, or even neck could be caught by the window and result in serious injury or even death. This warning applies especially to children.

Always lock all passenger power windows with the power window lock switch on the driver's side while children are in the vehicle, and never allow children to play with power window switches:

Leaving the power window switches unlocked while children are in the vehicle is dangerous. Power window switches that are not locked with the power window lock switch would allow children to operate power windows unintentionally which could result in serious injury if a child's hands, head or neck becomes caught by the window.

# **CAUTION**

To prevent burning out the fuse and damaging the power window system, do not open or close more than three windows at once.

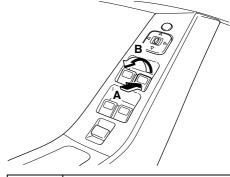
#### NOTE

- If you operate the switches often during a short period of time, the system might become inoperable for a certain time to prevent damage due to overheating.
- If you operate both the switch on the relevant door and the switch for that window on the driver's door at the same time, the window will stop moving.

Switch on the ignition to operate the electric windows.

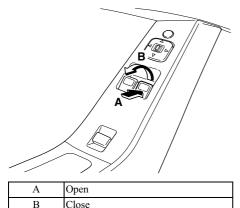
#### ▼ Driver's door switches (Double cab)

You can operate all the windows with the switches on the door trim panel of the driver's door.

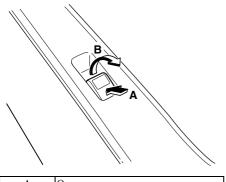


А	Open
В	Close

# ▼ Driver's door switches (Regulare and Freestyle cab)



# ▼ Front and rear passenger's door switches



А	Open
В	Close

# ▼ Opening and closing the windows automatically (Driver's window only)

Press or lift the switch to the second action point and release it. Press or lift it again to stop the window.

#### ▼ Safety switch for the rear windows



A switch in the driver's door disables the rear and front passenger electric window switches.

# ▼ Resetting the memory of the electric windows



The anti-trap function is deactivated until you have reset the memory.

In the event of a flat battery or after the battery has been disconnected from the vehicle, you must reset the memory separately for each window.

- 1. Open the window.
- 2. Lift and hold the switch to second action point until the window is fully closed.
- 3. Hold the switch lifted for one more second and release.
- 4. Open the window using the first action point and try to close it automatically using second action point.
- 5. If the window dose not open or close automatically when the switch is pressed or lifted to second action points, repeat the procedure.

#### ▼Safety mode

# A WARNING

The anti-trap function is not active during this procedure.

If the system detects a malfunction, it enters a safety mode. The windows will move for only about 0.5 seconds at a time and then stop again. Close the windows by pressing the switch again when the windows stop moving. Have this checked immediately.

#### ▼ Overriding the anti-trap function

# **CAUTION**

While you close the window (auto-up) for the third time with the obstacle in the way, the anti-trap function is disabled. Make sure there are no obstacles in the way of the closing window.

To override this protection function when there is a resistance, for example, in the winter, proceed as follows:

- 1. Close the window twice until it reaches the resistance and let it reverse.
- 2. Close the window a third time to the resistance. The anti-trap function is disabled and you cannot close the window automatically. The window will override the resistance and you can fully close it manually.
- 3. If the window does not close after the third attempt, have it checked by a properly trained technician.

# **EXTERIOR MIRRORS**

# A WARNING

Do not overestimate the distance of the objects that you see in the convex mirror. Objects seen in convex mirrors will appear smaller and further away than they actually are.

## ▼Manual folding mirrors

#### Folding

Push the mirror towards the door window glass.

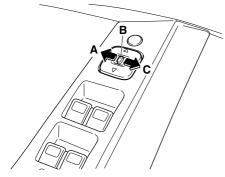
#### Unfolding

Make sure that you fully engage the mirror in its support when returning it to its original position.

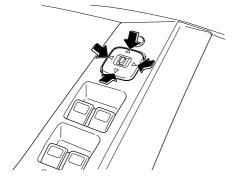
# ELECTRIC EXTERIOR MIRRORS

# A WARNING

Do not overestimate the distance of the objects that you see in the convex mirror. Objects seen in convex mirrors will appear smaller and further away than they actually are.

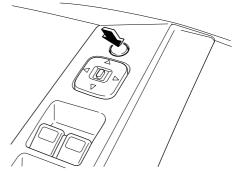


А	Left-hand mirror
В	Off
С	Right-hand mirror



The electric exterior mirrors are fitted with a heating element that will defrost or demist the mirror glass. See **Heated Windows** (page 96).

#### ▼Electric folding mirrors



To fold and unfold the mirrors, briefly press the switch. If the switch is pressed again while the mirrors are moving, they will stop and reverse the direction of movement.

# **INTERIOR MIRROR**

# A WARNING

Do not adjust the mirror when your vehicle is moving.

#### NOTE

Do not clean the housing or glass of any mirror with harsh abrasives, fuel or other petroleum or ammonia-based cleaning products.

You can adjust the interior mirror to your preference. Some mirrors also have a second pivot point. This lets you move the mirror head up or down and from side to side.

Pull the tab below the mirror toward you to reduce glare at night.

## ▼Auto-Dimming Mirror\*

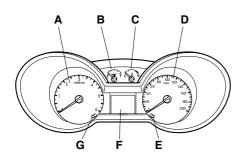
#### NOTE

Do not block the sensors on the front and back of the mirror. Mirror performance may be affected. A rear centre passenger or raised rear centre head restraint may also block light from reaching the sensor.

The mirror will dim automatically to reduce glare when bright lights are detected from behind your vehicle. It will automatically return to normal reflection when you select reverse gear to make sure you have a clear view when backing up.

# GAUGES

The equipment and installation position varies by vehicle



А	Tachometer
В	Fuel gauge (Two types: E—F display and 0—1 display)
С	Engine coolant temperature gauge
D	Speedometer
Е	Illumination dimming button
F	Information display
G	Trip computer display select and reset button

#### ▼Engine coolant temperature gauge

Shows the temperature of the engine coolant. At normal operating temperature, the needle will remain in the centre section.

# **CAUTION**

Do not restart the engine until the cause of overheating has been resolved.

If the needle enters the red section, the engine is overheating. Stop the engine, switch the ignition off and determine the cause **once the engine has cooled down**. See **Engine Coolant Check** (page 178).

## ▼ Fuel gauge

The arrow adjacent to the fuel pump symbol tells you on which side of your vehicle the fuel filler cap is located.

# WARNING LAMPS AND INDICATORS

The following warning lamps and indicators will come on briefly when you switch the ignition on to confirm that the system is operational:

- ABS warning lamp
- Vehicle immobiliser indicator
- Brake system warning lamp
- Ignition warning lamp
- Airbag warning lamp
- Low fuel level warning lamp
- Dynamic stability control (DSC) indicator
- Oil pressure warning lamp
- Oil Change Reminder Indicator (Diesel only)
- Engine warning lamps
- · Four-wheel drive indicator
- Four-wheel drive low (4L) indicator
- Electronic locking differential (ELD) indicator
- Water-in-fuel indicator (Diesel only)
- Washer fluid level indicator
- DPF (Diesel Particulate Filter)
- Ice/Frost warning indicator

# ▼ABS warning lamp\*

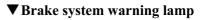


If it illuminates when you are driving, this indicates a malfunction. You will continue to have normal braking (without ABS). Have the system checked by a properly trained technician as soon as possible.

## ▼Vehicle immobiliser indicator \*



The immobiliser indicator will blink if the key is removed from the ignition or a wrong key is inserted.





It illuminates when the parking brake is engaged.

# A WARNING

Reduce your speed gradually and stop your vehicle as soon as it is safe to do so. Use your brakes with care.

If it illuminates when you are driving, check that the parking brake is not engaged. If the parking brake is not engaged, this indicates a malfunction. Have the system checked by a properly trained technician immediately.

#### ▼Ignition warning lamp



If the ignition warning lamp comes on when you are driving, switch off all unnecessary electrical equipment and have this checked immediately Have this checked by an expert.

#### ▼Airbag warning lamp



If it illuminates while driving, this indicates a malfunction. Have this checked as soon as possible.

#### ▼Low fuel level warning lamp



If the low fuel level warning lamp comes on, refuel as soon as possible. The arrow adjacent to the fuel pump symbol tells you on which side of your vehicle the fuel filler cap is located.

## ▼Low tyre pressure warning\*

# (!)

Will illuminate when your tyre pressure is low. If the lamp remains on with the engine running or when driving, check your tyre pressure as soon as possible.

It will also illuminate momentarily when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked by an expert repairer, we recommend an Authorised Mazda Repairer. ▼ Dynamic stability control (DSC) indicator \*



While driving, it flashes during activation of the system. After switching on the ignition, if it does not illuminate or illuminates continuously while driving, this indicates a malfunction. During a malfunction, the system switches off. Have the system checked by a properly trained technician as soon as possible.



If the oil pressure warning lamp comes on when you are driving, this indicates a malfunction. Stop, and switch the engine off and check the engine oil level. See **Engine Oil Check** (page 177).

▼ Oil Change Reminder Indicator (Diesel only)



If you switch DSC off, the lamp will flash twice and remain illuminated. The lamp will go out when you switch the system back on or when you switch the ignition off.

## ▼Oil pressure warning lamp

# **CAUTION**

Do not resume your journey if the oil pressure warning lamp comes on despite the oil level being correct. Have this checked immediately. The oil change reminder indicator informs that the engine requires an engine oil change due to excessive build up of soot within the engine oil.

▼Engine warning lamps

Malfunction indicator lamp



#### Powertrain warning lamp



#### All vehicles

If either lamp illuminates when the engine is running, this indicates a fault. The engine will continue to run but it may have limited power. If it flashes when you are driving, reduce the speed of your vehicle immediately. If it continues to flash, avoid heavy acceleration or deceleration. Have the system checked by a properly trained technician immediately.

# A WARNING

Have this checked immediately.

If both lamps illuminate together, stop your vehicle as soon as it is safe to do so (continued use may cause reduced power and cause the engine to stop). Turn the ignition off and attempt to restart the engine. If the engine restarts have the system checked by a properly trained technician immediately. If the engine does not restart the vehicle must be checked before continuing your journey.

#### ▼ Four-wheel drive indicator \*



The four-wheel drive indicator lamp will come on when the transfer shift switch is in the **4H** or **4L** position. This will flash while engaging to 4H or 4L. See **Electronic Locking Differential** (page 125).

#### ▼ Four-wheel drive low (4L) indicator \*



The four-wheel drive low (4L) indicator lamp will come on when the transfer shift switch is in **4L** position. It will flash while engaging to 4L position. See **Electronic Locking Differential** (page 125). ▼ Electronic locking differential (ELD) indicator \*



The ELD indicator lamp will come on when the rear differential is locked. The lamp will flash if an error has been detected or if the engage or disengage request cannot be completed. See **Electronic Locking Differential** (page 125).

## ▼Water-in-fuel indicator\*



The water-in-fuel indicator lamp will come on if there is excess water in the fuel filter. Drain off the water immediately. See **Draining the Fuel Filter Water Trap** (page 180). ▼Washer fluid level indicator\*



It illuminates when the windscreen washer fluid level goes below the minimum mark. See **Washer Fluid Check** (page 181).

## ▼DPF (Diesel Particulate Filter)\*



If this turns on, drive under the following conditions to assist the regeneration process.

- Drive your vehicle at a constant speed, preferably on a main road or motorway, for a minimum of 20 minutes.
- Avoid prolonged idling and always observe speed limits and road conditions.
- Do not switch the ignition off.
- Use a lower gear than normal to maintain a higher engine speed when appropriate (ideally, 1,500-3,000 rpm) while driving until the warning lamp turns off.

If this warning lamp turns on even after driving under the above conditions, or this warning lamp and the malfunction indicator lamp ((-)) ) turn on, have the system inspected by an Mazda Repairer as soon as possible.

▼Ice/Frost warning indicator\*

# A WARNING

Even if the temperature rises to above +4 °C (39 °F) there is no guarantee that the road is free of hazards caused by inclement weather.



It will illuminate and glow orange when the outside air temperature is between 4 °C and 0 °C (39 °F and 32 °F). It will glow red when the temperature is below 0 °C (32 °F).

## ▼Door open warning lamp



The door open warning lamp will come on when you switch the ignition on and if you have not closed the doors properly. ▼ Glow plug indicator - For Diesel vehicles



See Starting a Diesel Engine (page 116).

▼ Direction indicators Right side turn indicator



#### Left side turn indicator



The direction indicator will flash when you use the direction indicators. A sudden increase in the rate of flashing warns of a failed bulb.

### ▼Headlamp indicator



The headlamp indicator will come on when you switch the side and tail lamps on.

## ▼ High beam indicator



The high beam indicator will come on when you switch the headlamp high beam on. It will flash when you use the headlamp flasher.

#### ▼ Front fog lamp indicator \*



The front fog lamp indicator will come on when you switch the front fog lamps on.

## ▼Rear fog lamp indicator\*



The rear fog lamp indicator lamp will come on when you switch the rear fog lamps on.

## ▼Seat belt indicator



See Seat belt reminder (page 31).

▼ Gear shift indicator lamp (Manual only)



It will illuminate to inform you that shifting to a higher gear may give better fuel economy and lower CO2 emissions.

# ▼Cruise control\*



It will illuminate when you have set a speed using the cruise control system.

# AUDIBLE WARNINGS AND INDICATORS

#### ▼Door open warning

The door open warning chime will sound if the vehicle speed exceeds approximately 10 km/h (6.2 mph) and you have not closed the doors.

## ▼Lights on warning

The lights on warning chime will sound if you the key is not in position **II** or **III** and open any door before switching off the lights.

#### ▼Not in park warning

The not in park warning chime will sound if the automatic transmission lever is not in park position and you open the driver's door.

#### ▼Parking brake warning

The parking brake warning chime will sound if the parking brake is left engaged and the vehicle speed exceeds approximately 5 km/h (3 mph).

## ▼Restraints back-up warning

The restraints back-up warning chime will sound if there is a malfunction in the restraints warning lamp. 5 sets of 5 tone bursts will be heard every 30 minutes.

## ▼Low fuel level warning

Low fuel level warning chime will sound when the low fuel level warning lamp is activated and/or the information display is showing 80, 40, 20, 0 km (50, 25, 10, 0 miles) remaining.

## ▼ Turn indicator

The turn indicator chime will sound when the left or right turn indicator is activated.

## ▼ Direction indicators warning

The direction indicator warning chime will sound if the left or right direction indicator is left on and driven for more than approximately 3.2 km (1.98 miles).

# ▼Seat belt reminder

The seat belt warning chime will sound if the driver's and/or passenger's seat belt is unbuckled and the vehicle speed exceeds approximately 25 km/h (15.5 mph).

# ▼Alarm warning

The alarm warning chime will sound if the vehicle is unlocked with the mechanical key and not the transmitter. The chime will sound for up to 12 seconds until the unlock button is pressed on the transmitter or a correctly coded key is inserted into the ignition and turned to position **II** or **III**. If 12 second elapses before this occurs, the vehicle alarm will sound.

## ▼Key in ignition warning

The key in ignition warning chime will sound if the key is inserted into the ignition(but not turned to position **II** or **III**) and the driver's door is opened.

# ▼Over speed warning\*

Over speed warning chime will sound if the vehicle speed exceeds approximately 120 km/h (74.5 mph) indicated.

# ▼Low washer fluid warning\*

Low washer fluid warning chime will sound if the washer fluid level in the washer bottle is low.

# ▼ Missed lock warning

Missed lock warning chime will sound if the door is not locked after pressing the lock button.

#### NOTE

This feature is default off. To activate it, contact your Authorised Mazda Repairer.

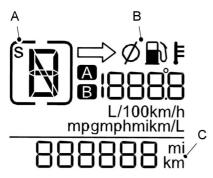
# **GENERAL INFORMATION**

# A WARNING

Do not operate the information display controls when the vehicle is moving.

#### NOTE

The information display will remain on for several minutes after you switch off the ignition.



E136109

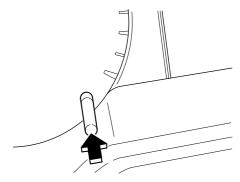
А	Gear display (auto transmission only)
В	Trip computer display
С	Odometer display

#### ▼ Odometer

Registers the total mileage of the vehicle.

# **TRIP COMPUTER**

#### ▼ Controls



For item location: See **Gauges** (page 73). Press the **SET/RESET** button less than 2 seconds to:

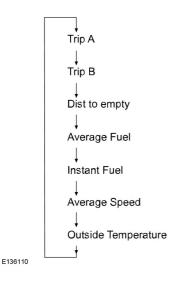
• Select between the trip computer displays

Press and hold the **SET/RESET** button for more than two seconds to:

- Reset trip A
- Reset trip B
- Reset average fuel consumption
- Reset average speed

# **Information Displays**

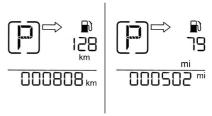
The trip computer display includes the following information displays:





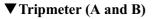
Registers the mileage of individual journeys.

#### ▼ Distance to empty



E138114

Indicates the approximate distance the vehicle will travel on the fuel remaining in the tank. Changes in driving pattern may cause the value to vary.





E138112

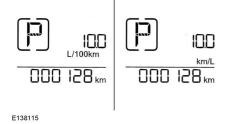
# 

E138118

Indicates the average fuel consumption since the function was last reset.

mi

## ▼Instantaneous fuel consumption





Indicates the current average fuel consumption.

## ▼Average speed



E138119

Indicates the average speed calculated since the function was last reset.

## ▼Outside air temperature\*



E138120

Shows the outside air temperature.

#### NOTE

The position of the trip computer display may vary depending on the information shown in the display.

# PERSONALISED SETTINGS

### ▼Language setting



А	Language set menu active
В	Language title display

A choice of eleven languages are available from 01 to 11 in the order shown below:

- 01: English GB
- 02: Swedish S
- 03: German D
- 04: Dutch NL
- 05: French F
- 06: Italian I
- 07: Spanish E
- 08: Portuguese P
- 09: Turkish TR
- 10: Russian RUS
- 11: Polish PL

To enter the language set menu:

- 1. With ignition off, press and hold the light dimming button. For item location: See **Gauges** (page 73). and switch ignition to on.
- 2. The display will show the language set menu active.
- 3. Press the **SET/RESET** to select between the different languages.

- 4. Press and hold the **SET/RESET** button to set the currently displayed language.
- 5. A chime will be heard to confirm the selection.
- 6. The display will then return to normal operation.

#### ▼ Units of measure

To select metric or imperial units for outside temperature display:

- 1. Change display mode to "Outside Temperature."
- 2. Press and hold the **SET/RESET** button for more than two seconds and the units will change.

Toggling the units of measure using this display will affect the following displays:

- Outside air temperature.
- The temperature display in the automatic air-conditioning.
- The set temperature in the multifunction display.

# PRINCIPLE OF OPERATION

### ▼Outside air

Keep the air intakes forward of the windscreen free from obstruction (snow, leaves etc.) to allow the air-conditioning system to function effectively.

#### ▼Recirculated air

# **CAUTION**

Prolonged use of recirculated air may cause the windows to mist up. If the windows mist up, follow the settings for defrosting and demisting the windscreen.

The air currently in the passenger compartment will be recirculated. Outside air will not enter the vehicle.

## **▼**Heating

Heating performance depends on the temperature of the engine coolant.

## **▼**Air conditioning

#### NOTE

- The air conditioning operates only when the temperature is above 4 °C (39 °F).
- If you use the air conditioning, the fuel consumption of your vehicle will be higher.

Air is directed through the evaporator where it is cooled. Humidity is extracted from the air to help keep the windows free of mist. The resulting condensation is directed to the outside of the vehicle and it is therefore normal if you see a small pool of water under your vehicle.

# ▼ General information on controlling the interior climate

Fully close all the windows.

## **▼**Warming the interior

Direct the air towards your feet. In cold or humid weather conditions, direct some of the air towards the windscreen and the door windows.

## ▼ Cooling the interior

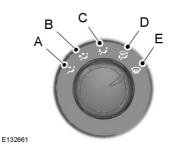
Direct the air towards your face.

# **AIR VENTS**



# MANUAL CLIMATE CONTROL

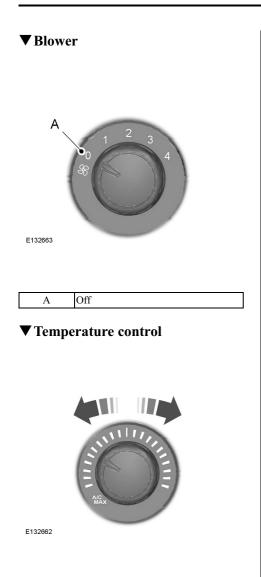
#### ▼Air distribution control



А	Face level
В	Face level and footwell
С	Footwell
D	Footwell and windscreen
E	Windscreen

You can set the air distribution control to any of the indicated positions. A small amount of air is directed towards the windscreen in positions B and C.

# **Air-Conditioning**



Blue	Cold
Red	Warm
A/C MAX	Maximum cooling

#### ▼ Recirculated air



Press the recirculated air button to toggle between outside air and recirculated air.

#### ▼System settings

#### NOTE

Set all controls to the positions shown.

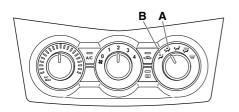
#### Heating the interior quickly



E132666

Select the outside air.

#### Ventilation



А	Face level and footwell
В	Face level

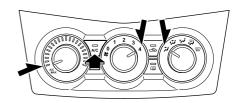
Set the air distribution control to position **A** or position **B**. Set the blower and temperature to any position and select the outside air. Open the air vents to suit individual requirements.

# Switching the air conditioning on and off



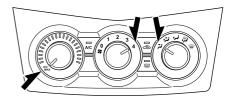
Press the A/C button to switch the air conditioning on and off.

#### Cooling with outside air



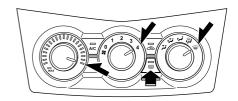
Switch the air conditioning on and select the outside air.

#### Cooling the interior quickly



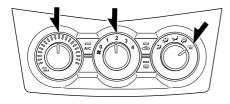
Selecting the A/C MAX will provide maximum occupant cooling. To switch the A/C MAX off deselect the A/C or recirculated air.

Defrosting and demisting the windscreen quickly



Selecting air to windscreen will automatically switch the A/C on and select the outside air.

#### Reducing interior air humidity



Selecting air to windscreen will automatically switch the A/C on and select the outside air.

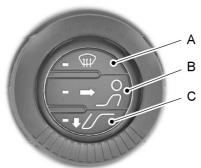
# AUTOMATIC CLIMATE CONTROL

The system controls the temperature, amount and distribution of the air flow automatically and adjusts them according to the driving and weather conditions. A short press of the **AUTO** button once switches on the auto mode.

#### NOTE

- When in AUTO, ensure that the temperature is set to the desired level, (22 °C (71 °F) is preferred).
- If the air-conditioning is operated, information relating to this system is displayed in the information display. See **Information Displays** (page 83).
- Avoid adjusting the settings when the vehicle interior is extremely hot or cold. The automatic airconditioning adjusts to the current circumstances automatically. For the system to function properly, the side and centre vents should be fully open.
- The sunload sensor is located on top of the instrument panel. Do not cover the sensor with any objects.
- The interior temperature sensor is located behind the grill below the air distribution control. Do not cover the grill with any objects.
- At low outside temperatures, when the system is in auto mode, the air flow will be low and the air stream will be directed to the windscreen and the side windows as long as the engine is cold.

#### ▼Air distribution control



E132685

А	Windscreen
В	Face level
С	Footwell

To adjust air distribution, press the desired button. The combination of settings that can be selected are **A**, **B**, **C**, **A** and **C** and **B** and C.

#### ▼ Blower



#### NOTE

When the blower is in AUTO mode, no blower setting indicators will be illuminated.

When the blower speed is controlled manually by operating the blower dial, the blower setting is indicated in the display above the air distribution controls. To return to auto mode, short press the **AUTO** button.

## ▼ Temperature control



You can set the temperature between 16 °C (61 °F) and 28 °C (82 °F) in steps of 0.5 °C (1 °F). In position **LO** (below 16 °C (61 °F) the system will switch to permanent cooling, in **HI** (above 28 °C (82 °F) to permanent heating, and not regulate a stable temperature.

#### **Interconnection Mode**

In Interconnection mode the temperature settings for both the driver's and passenger's side are linked. If you adjust the temperature by turning switch on the wiper lever on the driver's side, the settings will be adjusted to the same setting on the passenger's side.

#### To switch individual operation mode on

#### NOTE

Adjusting the blower speed will put the system into individual operation mode.

Long press of the AUTO button or selecting the temperature for the passenger's side with the rotary control on the passenger's side. The temperature for the driver's side will remain unchanged. You can now adjust the driver and passenger side temperatures independently. The temperature settings for each side are shown in the display. You can set a temperature difference of up to 4 °C (8 °F).

#### NOTE

If you set a temperature difference of greater than 4 °C (8 °F), the temperature on the other side will be adjusted so that the difference remains 4 °C (8 °F).

#### To switch individual operation mode off

Press the **AUTO** button for three seconds or select **HI** or **LO** on the driver's side. The passenger's side temperature will be adjusted to the driver's side temperature.

## ▼Recirculated air



Press the recirculated air button to toggle between fresh air and recirculated air.

#### NOTE

When the system is in auto mode and the interior and exterior temperatures are quite hot, the system selects recirculated air automatically to maximise cooling of the interior. Once the selected temperature is reached, the system will reselect outside air automatically.

#### ▼Cooling the interior quickly

A/CMAX

Selecting the A/C MAX will provide maximum occupant cooling. A second press of the A/C MAX button will switch the A/C MAX off.

#### Windscreen defrosting and demisting



Press the **MAX** defrost button for quick demisting of the windscreen. Fresh air will flow into the vehicle and A/C is automatically selected. The blower speed, temperature control and fresh air operate automatically and cannot be adjusted in this mode. The blower is set to maximum speed and the temperature to **HI**.

When you select MAX defrost, the heated windows switch on automatically and switch off after a preset time. A second press of the **MAX** defrost button will return the system to the

previous settings.

To return to auto mode, short press the **AUTO** button.

# ▼ Switching the air conditioning on and off



Press the A/C button to switch the air conditioning on and off. The light in the button indicates the status of the A/C.

#### NOTE

The A/C operates only when the engine is running.

#### Switching off the automatic airconditioning



Press the **power** button to switch the system on and off. When switched off, recirculated air is selected but it is also possible to manually select the fresh air.

# **HEATED WINDOWS**

#### ▼Heated windows

#### NOTE

Make sure the engine is running before operating the heated windows.

#### Heated windscreen



Press the button to clear the window of thin ice and fog.

#### Heated rear window

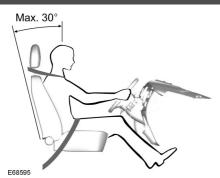


Press the button to clear the window of thin ice and fog. Press the button to switch the system off. The heated rear window will automatically turn off after a short period of time.

#### NOTE

Do not use razor blades or other sharp objects to clean the inside of the rear window or to remove decals from the inside of the rear window. This may cause damage to the heated grid lines and will not be covered by your warranty.

# SITTING IN THE CORRECT POSITION



# A WARNING

- Do not adjust the seats when the vehicle is moving.
- Only when you use the seat belt properly, can it hold you in a position that allows the airbag to achieve its optimum effect.

When you use them properly, the seat, head restraint, seat belt and airbags will provide optimum protection in the event of a collision. We recommend that you:

- sit in an upright position with the base of your spine as far back as possible.
- do not recline the seatback more than 30 degrees.
- adjust the head restraint so that the top of it is level with the top of your head and as far forwards as possible, remaining comfortable.

- keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 250 millimetres (10 inches) between your breastbone and the airbag cover.
- hold the steering wheel with your arms slightly bent.
- bend your legs slightly so that you can press the pedals fully.
- position the shoulder strap of the seat belt over the centre of your shoulder and position the lap strap tightly across your hips.

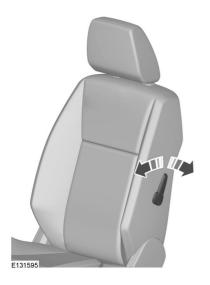
Make sure that your driving position is comfortable and that you can maintain full control of your vehicle.

# FRONT SEATS

# A WARNING

- Do not use any accessory seat covers that are not specifically designed for seats with side airbags. These seat covers must be fitted by properly trained technicians.
- Do not adjust the seats when the vehicle is moving.

▼Adjusting the lumbar support



▼ Moving the seats backwards and forwards (Manual seats)



# A WARNING

Rock the seat backwards and forwards after releasing the lever to make sure that it is fully engaged in its catch.

# **CAUTION**

Do not move the front seats too close to the instrument panel.

# ▼Adjusting the height of the driver's seat (Manual seats)



Each pull or press on the lever will raise or lower the height by a small amount.

# ▼Adjusting the angle of the seatback (Manual seats)



# **WARNING**

- Rock the seatback backwards and forwards after releasing the lever to make sure that it is fully engaged in its catch.
- If the front passenger seat has been moved forwards, rock the seat backwards and forwards after releasing the lever to make sure that it is fully engaged in its catch.

#### Front seat - Freestyle cab



E136219

#### NOTE

On freestyle cab vehicles the front passenger seat can be adjusted to allow the rear passenger to gain easier access. ▼ Folding the seat backrest (Bench seat - Regular cab)



### ▼ Moving the seats backwards and forwards (Electric seats)



# **CAUTION**

Do not move the front seats too close to the instrument panel.

▼Adjusting the height of the driver's seat (Electric seats)



E131594



▼ Tilting the seat (Electric seats)



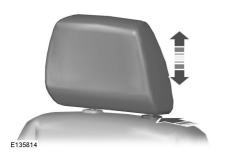
102

### HEAD RESTRAINTS

### ▼Adjusting the head restraint

# A WARNING

- Raise the rear head restraint when the rear seat is occupied by a passenger.
- (Except when installing a booster cushion)
   When using a forward facing child restraint on a rear seat, always remove the head restraint from that seat.



Adjust the head restraint so that the top of it is level with the top of your head.

# A WARNING

Always drive with the head restraints installed when seats are being used and make sure they are properly adjusted: Driving with the head restraints adjusted too low or removed is

adjusted too low or removed is dangerous. With no support behind your head, your neck could be seriously injured in a collision.

### **Removing the head restraint**

Press the locking button using a suitable tool and remove the head restraint.



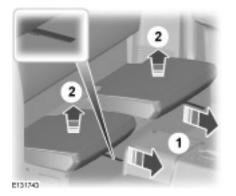
A WARNING

<u>Always drive with the head restraints</u> <u>set up when seats are being used and</u> <u>make sure they are properly set up:</u> Driving with the head restraints not set up is dangerous. With no support behind your head, your neck could be seriously injured in a collision.

### **REAR SEATS**

#### ▼ Folding the rear seat cushion

Freestyle cab



**Double cab** 



# **CAUTION**

When the cushion is folded down, the cushion tether strap must be stowed in the pocket provided.

### ▼ Folding the rear seatback -Double cab

# A WARNING

When folding the seatbacks down, take care not to get your fingers caught between the seatback and seat frame.

# **CAUTION**

- Do not use the rear surface of the rear seat back as a load floor.
- Do not de-latch and fold the seat back when the seat cushion is folded up.



To fold the seatback down

- 1. Pull the release strap upwards.
- 2. Push the seatback forwards.

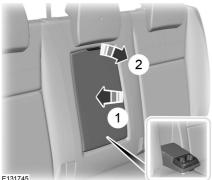
To return the seatback to its upright position:

3. Push the seatback to the upright position.

# A WARNING

- When folding the seatbacks up, make sure that the belts are visible to an occupant and not caught behind the seat.
- Make sure that the rear seatback is secure and fully engaged in its catches

### **V**Rear seat arm rest



- 1. Push the arm rest into the seatback and hold.
- 2. Pull the strap to release.

### **HEATED SEATS**

# **A CAUTION**

Operating this function with the engine off will drain the battery.



E131536

The seat heating will operate only when the ignition is switched on.

The maximum temperature is reached after five or six minutes. It is regulated thermostatically.

The seat heating will remain on until either the heated seat switch or the ignition is turned off.

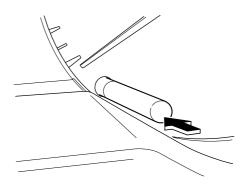
# CLOCK

For detailed instructions on how to adjust the clock. See **Setting the clock on the audio unit** (page 243).

### INSTRUMENT LIGHTING DIMMER

### NOTE

Adjusting the illumination dimmer switch will alter the illumination level of the interior displays and switches.



For item location: See **Gauges** (page 73). Press the dimming button to step the illumination dimming level in large steps. Press and hold the dimming button to adjust the illumination dimming level smoothly in fine adjustment levels.

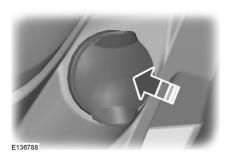
## **CIGAR LIGHTER\***

# **CAUTION**

- If you use the socket when the engine is not running, the battery may discharge.
- Do not hold the cigar lighter element pressed in.

#### NOTE

You can use the socket to power 12 volt appliances that have a maximum current rating of 10 Amperes. Use only Mazda accessory connectors or connectors specified for use with SAE standard sockets.



Press the element in to use the cigar lighter. It will pop out automatically. For item location: See **At a Glance** (page 3).

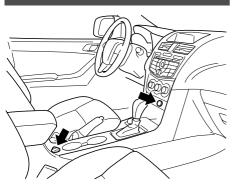
### ASHTRAY\*

### NOTE

The removable ashtray can be placed in any of the front or rear cup holders.



### AUXILIARY POWER POINTS



# **CAUTION**

If you use the auxiliary power socket when the engine is not running, the battery may discharge.

### NOTE

Switch the ignition on to use the auxiliary power socket.

You can use the auxiliary power socket to power 12 volt appliances that have a maximum current rating of 10 Amperes. Use only Mazda accessory connectors or connectors specified for use with SAE standard sockets. For item location: See **At a Glance** (page 3).

# **CUP HOLDERS**

# A WARNING

- Do not place hot drinks in the cup holders when the vehicle is moving.
- Do not place glass objects in the cup holders.

### ▼ Front cup holders

Type 1

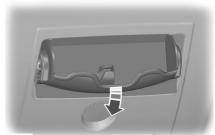


E132722

Type 2



# OVERHEAD CONSOLE



E133675

▼Rear cup holders\*

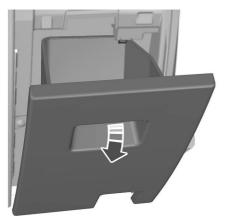


E132724

# **Convenience features**

# STORAGE COMPARTMENTS

**Driver side** 



E133607

#### **Centre console**

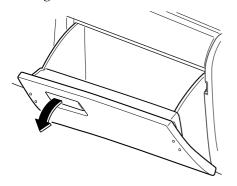


E136462

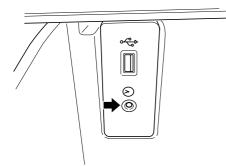
E136463



Passenger side

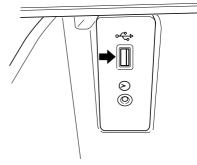


## AUXILIARY INPUT (AUX IN) SOCKET



For item location see: See At a Glance (page 3). See Auxiliary input (AUX IN) socket (page 260).

### **USB PORT**



For item location: See **At a Glance** (page 3). See **Connectivity** (page 284).

# FLOOR MATS

We recommend the use of Genuine Mazda floor mats.

# A WARNING

Make sure the floor mats are secured with the hooks or the retainers to prevent them from bunching up under the foot pedals (Driver's side): Using a floor mat that is not secured is dangerous as it will interfere with the accelerator and brake pedal operation (driver's side), which could result in an accident.

Only use a floor mat which conforms to the shape of the floor on the driver's side and make sure it is oriented correctly. Secure the floor mat using the hooks or retainers.

There are various ways to secure floor mats depending on the type used, therefore secure the mat according to the type.

After installing the floor mat, make sure that it does not slide from side to side or back and forth, and that there is sufficient clearance with the accelerator and brake pedals on the driver's side.

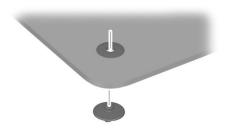
After removing the floor mat for cleaning or some other reason, always securely reinstall it while paying attention to the precautions just mentioned.

# A WARNING

Do not install two floor mats, one on top of the other, on the driver's side: Installing two floor mats, one on top of the other, on the driver's side is dangerous as the retention pins can only keep one floor mat from sliding forward.

Loose floor mat(s) will interfere with the foot pedals and could result in an accident.

If using an all-weather mat for winter use always remove the original floor mat.



E136481

### **GENERAL INFORMATION**

### ▼General points on starting

If the battery has been disconnected the vehicle may exhibit some unusual driving characteristics for approx. 8 kilometres (5 miles) after reconnecting the battery. This is because the engine management system must realign itself with the engine. Any unusual driving characteristics during this period may be disregarded.

# ▼ Starting the engine by towing or pushing

Do not push-start your Mazda.

# A WARNING

<u>Never tow a vehicle to start it:</u> Towing a vehicle to start it is dangerous. The vehicle being towed could surge forward when its engine starts, causing the two vehicles to collide. The occupants could be injured.

# **CAUTION**

Do not push-start a vehicle that has a manual transmission. It can damage the emission control system.

#### NOTE

You cannot start a vehicle with an automatic transmission by pushing it.

### **IGNITION SWITCH**

# A WARNING

Never return the key to position 0 or I when the vehicle is in motion.



**0** The ignition is off. **I** The ignition and all main electrical circuits are disabled.

#### NOTE

Do not leave the ignition key in this position for too long to avoid discharging the battery.

II The ignition is switched on. All electrical circuits are operational. Warning lamps and indicators illuminate. This is the key position when driving. You must also select it when being towed. III The starter motor is activated. Release the key as soon as the engine starts.

### **STEERING WHEEL LOCK**

When you remove the key from the ignition switch, the steering column lock is activated as soon as you turn the steering wheel.

The steering will be unlocked when the key is moved to position **ACC**.

### STARTING A PETROL ENGINE

#### NOTE

You can only operate the starter for a limited period of time, for example 10 seconds. The number of start attempts is limited to approximately six. If you exceed this limit, the system will not allow you to try again until a period of time has elapsed, for example 30 minutes.

### ▼Cold or hot engine

#### Vehicles with manual transmission

#### NOTE

- Do not touch the accelerator pedal.
- Releasing the clutch pedal during engine start may stop the engine cranking and return to ignition on.
- 1. Fully depress the clutch pedal.
- 2. Start the engine.

#### Vehicles with automatic transmission

#### NOTE

- Do not touch the accelerator pedal.
- Releasing the brake pedal during engine start may stop the engine cranking and return to ignition on.
- 1. Move the transmission selector lever to position P or N.
- 2. Fully depress the brake pedal.

3. Start the engine.

#### All vehicles

If the engine does not start, wait for a short period and try again. If the engine does not start after **three** attempts, wait 10 seconds and follow the **Flooded engine** procedure.

If you have difficulty starting the engine when the temperature is below -25 °C (-13 °F), press the accelerator pedal to the mid-way point of its travel and try again.

### ▼ Flooded engine

#### Vehicles with manual transmission

- 1. Fully depress the clutch pedal.
- 2. Fully depress the accelerator pedal and hold it there.
- 3. Start the engine.

#### Vehicles with automatic transmission

- 1. Move the transmission selector lever to position P or N.
- 2. Fully depress the accelerator pedal and hold it there.
- 3. Fully depress the brake pedal.
- 4. Start the engine.

#### All vehicles

If the engine does not start, repeat the **Cold or hot engine** procedure.

### ▼Engine idle speed after starting

The speed at which the engine idles immediately after starting will vary depending on the engine temperature. The idle speed is automatically increased when the engine is cold this is to heat the catalytic converter. This keeps the vehicle emissions to an absolute minimum. The idle speed will slowly decrease to the normal level as the catalytic converter warms up.

### STARTING A DIESEL ENGINE

### ▼Cold or hot engine

#### All vehicles

### NOTE

- When the temperature is below -15 °C (5 °F), you may need to crank the engine for up to 25 seconds.
- Continue cranking the engine until it starts.
- You can only operate the starter for a maximum of 30 seconds at a time.



Switch the ignition on and wait until the glow plug indicator goes off.

#### Vehicles with manual transmission

#### NOTE

Do not touch the accelerator pedal.

- 1. Fully depress the clutch pedal.
- 2. Start the engine.

#### Vehicles with automatic transmission

- 1. Select park or neutral.
- 2. Fully depress the brake pedal.
- 3. Start the engine.

### DIESEL PARTICULATE FILTER\*

The DPF forms part of the emissions reduction system equipped on your vehicle. The DPF filters diesel particulates (soot) from the exhaust gas.

### **▼**Regeneration

If the DPF lamp ( E: ) turns on while the engine is running, it means DPF regeneration is necessary.

# A WARNING

Do not park or idle your vehicle over dry leaves, dry grass or other combustible materials: Parking or idling your vehicle over dry grass or other combustible material is dangerous and could result in a fire. The DPF regeneration creates very high exhaust gas temperatures and the exhaust will radiate a considerable amount of heat during and after DPF regeneration, and after you have switched the ignition off.

# **CAUTION**

Avoid running out of fuel while doing the DPF regeneration.

- You drive only short distances.
- You frequently stop and start the vehicle.
- You accelerate and decelerate the vehicle frequently.

If the DPF lamp  $(\fbox{2})$  turns on while you are driving the vehicle, do the following to assist the DPF regeneration.

- Drive your vehicle at a constant speed, preferably on a main road or motorway, for a minimum of 20 minutes.
- Avoid prolonged idling and always observe speed limits and road conditions.
- Do not switch the ignition off.
- Use a lower gear than normal to maintain a higher engine speed when appropriate (ideally 1,500-3,000 rpm) while driving until the warning lamp turns off.

# SWITCHING OFF THE ENGINE

#### ▼ Vehicles with a turbocharger

# **CAUTION**

Do not switch the engine off when it is running at high speed or immediately after heavy towing. If you do, the turbocharger will continue running after the engine oil pressure has dropped to zero. This will lead to premature turbocharger bearing wear.

Release the accelerator pedal. Wait until the engine has reached idle speed and then switch it off.

## SAFETY PRECAUTIONS

# A WARNING

- Stop refuelling after the fuel nozzle stops the second time. Additional fuel will fill the expansion space in the fuel tank which could lead to fuel overflowing. Fuel spillage could be hazardous to other road users.
- Do not use any kind of flames or heat near the fuel system. The fuel system is under pressure. There is a risk of injury if the fuel system is leaking.

## **FUEL QUALITY - PETROL**

# **CAUTION**

Do not use leaded petrol or petrol with additives containing other metallic compounds (e.g. manganese-based). They could damage the emission system.

#### NOTE

- We recommend that you use only high quality fuel. (Ex. EN228)
- The use of additives or other engine treatments not approved by Mazda is not recommended.
- Ethanol blended fuels up to 20% (E20) is acceptable to be used in this vehicle.



Use **minimum 91 octane unleaded** petrol that meets the relevant national specification.

# FUEL QUALITY - DIESEL

# A WARNING

Do not mix diesel with oil, petrol or other liquids. This could cause a chemical reaction.

# **CAUTION**

- Do not add paraffin, paraffin or petrol to diesel. This could cause damage to the fuel system.
- Use diesel that meets the relevant national specification.

#### NOTE

- We recommend that you use only high quality fuel. (Ex. EN590)
- The use of additives or other engine treatments not approved by Mazda is not recommended.
- Bio-diesel blended fuels up to 10% (B10)\* can be used in this vehicle.
- \* Maximum 15% (B15) in Indonesia





### ▼Long-term storage

Most diesel fuels contain bio-diesel, it is recommended to fill the tank with purely mineral diesel (where available) or add an anti-oxidant prior to long-term storage of your vehicle exceeding two months. Your repairer can help you with a suitable antioxidant.

## **CATALYTIC CONVERTER**

# A WARNING

Do not park or idle your vehicle over dry leaves, dry grass or other combustible materials. The exhaust will radiate a considerable amount of heat during use, and after you have switched the engine off. This is a potential fire hazard.

### ▼Driving with a catalytic converter

## **CAUTION**

- Avoid running out of fuel.
- Do not crank the engine for long periods.
- Do not push-start or tow-start your vehicle. Use booster leads. See **Jump-Starting the Vehicle** (page 190).
- Do not switch the ignition off when driving.

### **FUEL FILLER FLAP**

# A WARNING

- Take care when refuelling to avoid spilling any residual fuel from the fuel nozzle.
- Do not use any kind of flames or heat near the fuel system. The fuel system is under pressure. There is a risk of injury if the fuel system is leaking.

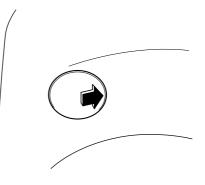
# **CAUTION**

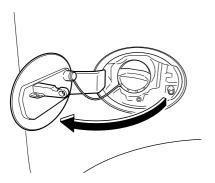
If you use a high pressure spray to wash your vehicle, only spray the fuel filler flap briefly from a distance not less than 20 centimetres (8 inches).

#### NOTE

Central locking also locks and unlocks the fuel filler flap. See **Locking and Unlocking** (page 38).

### ▼ Vehicles equipped with cap system



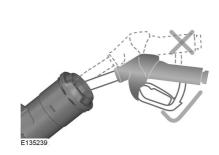


- 1. Press the flap to open it.
- 2. Open the flap fully until it engages. Turn the fuel filler cap anti-clockwise.
- 3. When the filler cap is removed, a hissing noise may be heard. This is normal and should be disregarded.
- 4. To close, turn the fuel filler cap clockwise until it clicks.
- 5. Close and push the fuel filler flap to lock it.

### ▼ Filling

# A WARNING

Stop refuelling after the fuel nozzle stops the second time. Additional fuel will fill the expansion space in the fuel tank which could lead to fuel overflowing. Fuel spillage could be hazardous to other road users.



Fully insert the fuel nozzle. Lower the nozzle so that it locks in place on the fuel pipe opening. Keep it resting at this position and initiate refuelling by pulling the trigger.

# A WARNING

We recommend that you wait at least 10 seconds before removing the fuel nozzle to allow any residual fuel to drain into the fuel tank.



E135240

Slightly raise the fuel nozzle to remove it.

# REFUELLING

# **CAUTION**

Do not attempt to start the engine if you have filled the fuel tank with the incorrect fuel. This could damage the engine. Have the system checked by a properly trained technician immediately.

## **FUEL CONSUMPTION**

The CO2 and fuel consumption figures are derived from labouratory tests according to EEC Directive 80/1268/EEC and subsequent amendments and are carried out by all vehicle manufacturers. They are intended as a comparison between makes and models of vehicles. They are not intended to represent the real world fuel consumption you may get from your vehicle. Real world fuel consumption is governed by many factors including; driving style, high speed driving, stop/start driving, air conditioning usage, the accessories fitted and towing etc.

Your Authorised Mazda Repairer can give you advice on improving your fuel consumption.

### MANUAL TRANSMISSION

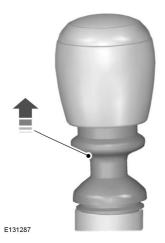
▼Selecting reverse gear

# **CAUTION**

Do not engage reverse gear when the vehicle is moving. This can cause damage to the transmission.

#### NOTE

Fully depress the clutch pedal and wait for three seconds before you select reverse gear.



On some vehicles it is necessary to raise the collar whilst selecting reverse gear.

### FOUR-WHEEL DRIVE

### NOTE

A clicking sound from the driveline may be heard while shifting between ranges, which is normal.



### ▼Two-wheel drive, high range (2H)

Use for all normal road driving and also for off-road driving across dry, level terrain.

### ▼ Four-wheel drive, high range (4H)

# A WARNING

Do not use four-wheel drive 4H for normal road driving.

### NOTE

The four-wheel drive indicator lamp will come on when the transfer shift switch is in the 4H position. See **Warning Lamps and Indicators** (page 74).

Use for off-road driving.

### ▼ Four-wheel drive, low range (4L)

# A WARNING

Do not use four-wheel drive 4L for normal road driving.

### NOTE

The four-wheel drive low range **4L** and four-wheel drive indicator lamps will come on when the transfer shift switch is in the **4L** position. See **Warning Lamps and Indicators** (page 74).

Use for more extreme off-road conditions, such as steep ascents and descents. Also use when low speed manoeuvring is necessary, such as reversing a trailer or negotiating a boulder-strewn river bed.

### ▼Shifting between 2H and 4H

### NOTE

When shifting to **2H**, all the stability control (DSC) functions are reactivated.

This can be done with the vehicle moving up to 110 km/h (68 mph), but only with the accelerator pedal released. During the shift the indicator lamp will flash.

### ▼Shifting between 2H and 4L

### NOTE

- When shifting to **4L** the Engine Traction Control and Trailer Sway Assist are deactivated. Hill Descent Control, Hill Launch Assist and Brake Traction Control remain active.
- When shifting to **2H**, all the stability control (DSC) functions are reactivated.
- 1. Stop the vehicle when it is safe to do so.
- 2. Fully depress the clutch pedal (manual transmission).
- 3. Move the transmission selector lever to the neutral (**N**) position (automatic transmission).
- 4. Turn the transfer shift switch from 2H to 4L or 4L to 2H.

During the shift the indicator lamp will flash. If it continues to flash, check whether the above conditions are met.

### ▼Shifting between 4H and 4L

#### NOTE

When shifting to 4L the Engine Traction Control and Trailer Sway Assist are deactivated. Hill Descent Control, Hill Launch Assist and Brake Traction Control remain active.

- 1. Stop the vehicle when it is safe to do so.
- 2. Fully depress the clutch pedal (manual transmission).
- 3. Move the transmission selector lever to the neutral (N) position (automatic transmission).
- 4. Turn the transfer shift switch from **4H** to **4L** or from **4L** to **4H**.

During the shift the indicator lamp will flash. If it continues to flash, check whether the above conditions are met.

### ELECTRONIC LOCKING DIFFERENTIAL

# A WARNING

The vehicle should not be operated on sealed roads with the system engaged. Doing so may lead to excessive tyre noise and wear. The system is intended for use on consistently slippery or loose surfaces.

The system locks the left and right portions of the rear axle together to form a solid driving axle, resulting in increased rear wheel traction in certain conditions.

#### NOTE

The system will only activate if the vehicle speed is less than 30 km/h (20 mph) and the accelerator pedal is released.

Press the Electronic Locking Differential (ELD) button to activate the system. For item location: See **At a Glance** (page 3). The rear axle will lock and unlock only when the internal gears are aligned and there is no torque load on the differential. To aid alignment, drive the vehicle in a straight line with the accelerator pedal released. Alternatively, drive slowly forwards and backwards while moving the steering wheel from side to side to allow the internal differential gears to align.

#### NOTE

The system can be used in any transmission drive range (2H, 4H or 4L).

# Transmission

The system will:

- Automatically disengage when a speed of 40 km/h (25 mph) is exceeded.
- Automatically re-engage when the speed drops below 30 km/h (20 mph).
- Automatically disengage when the ignition is turned off.

If the system is selected when driving above 40 km/h (25 mph), the request is stored and will be engaged when the vehicle speed reduces to 30 km/h (20 mph). The ELD indicator lamp will flash until either the vehicle speed reduces and the differential lock is engaged or the driver deselects the ELD button.

### NOTE

- When the system is engaged, the Dynamic Stability Control (DSC) functions such as Stability Control, Traction Control, Hill Descent Control, Emergency stop signal, Hill Launch Assist and Trailer Sway Assist deactivate, the DSC off indicator illuminates, and the HDC on indicator turns off.
- When the ABS is operating, the system will be disengaged.

## AUTOMATIC TRANSMISSION

### ▼ Selector lever positions



Р	Park
R	Reverse
Ν	Neutral
D	Drive
S	Sport mode and manual shifting
s+	Manual shift up
S-	Manual shift down

# A WARNING

Apply the brakes before moving the selector lever and keep them applied until you are ready to move off.

#### NOTE

A cold engine has a higher idle speed. This will increase the tendency for your vehicle to **creep** when you have selected a drive gear.

Press the button on the selector lever to select reverse and park.

The selector lever position will be shown in the information display.

### Park

# **WARNING**

- Select park only when your vehicle is stationary.
- Apply the parking brake and select park before leaving your vehicle. Make sure that the selector lever is latched in position.

#### NOTE

- To move the selector lever from park position, apply the footbrake and ignition key in position II.
- An audible warning will sound if you open the drivers door and you have not selected park.
- The battery saver will deactivate the warning chime after a period of time.

In this position, power is not transmitted to the drive wheels and the transmission is locked. You can start the engine with the selector lever in this position.

#### Reverse

# A WARNING

Select reverse only when your vehicle is stationary and the engine is at idle speed.

### Neutral

In this position, power is not transmitted to the drive wheels but the transmission is not locked. You can start the engine with the selector lever in this position.

#### Drive

Select drive to shift automatically through the forward gears.

#### Sport mode

#### NOTE

- Sport mode is to shift automatically through the forward gears in a more sporty manner.
- When towing heavy loads, or in hilly terrain, it is recommended that sport mode is selected. This will result in cooler transmission temperatures and additional engine braking.

Activate sport mode by moving the selector lever from drive position towards the driver. This is indicated in the instrument cluster by displaying 'S'. See **General Information** (page 83). Sport mode will remain active until you shift manually up or down the gears.

# Transmission

### NOTE

When you select position S, a gear change may occur depending on the accelerator pedal position in relation to actual vehicle speed.

### Manual shifting



#### NOTE

A shift will occur only when the vehicle speed and the engine speed are appropriate.

Manual shifting can be done only when the selector lever is in position S. Move the selector lever forward to downshift and backward to upshift.

# A WARNING

Do not hold the selector lever permanently in - or +.

When the vehicle is stationary, only the 1st and 2nd gears can be selected. Manual shifting is sequential, therefore gears cannot be skipped. The transmission will remain in the selected gear. When the engine speed is too low or idle, it will downshift to 2nd gear. The selected gear is indicated in the instrument cluster. See **General Information** (page 83).

### ▼Active Adaptive Shift (AAS)

The transmission will select the appropriate gear for optimum performance based on ambient temperature, road gradient, vehicle load and driver input.

# ▼ Hints on driving with an automatic transmission

Moving off

# A WARNING

It is not possible to tow-start or pushstart a vehicle fitted with an automatic transmission. See Jump-Starting the Vehicle (page 190).

- 1. Release the parking brake.
- 2. Release the brake pedal and press the accelerator pedal.

### Stopping

- 1. Release the accelerator pedal and press the brake pedal.
- 2. Apply the parking brake.

#### Kickdown

Press the accelerator pedal fully with the selector lever in the drive position to select the next highest gear for optimum performance. Release the accelerator pedal when you no longer require kickdown.

# ▼ Emergency park position release button



Use the button to move the selector lever from the park position in the event of an electrical malfunction or if your vehicle has a flat battery.

# **CAUTION**

Take care when opening the cover.

Lift up the cover in the centre console next to the selector lever with a suitable tool.

Push down the locking button in the slot and simultaneously move the selector lever out of the **P** position.

#### NOTE

If position **P** is selected again, this procedure must be repeated.

# PRINCIPLE OF OPERATION

### ▼ Brakes (Disc and/or Drum)

If you require information regarding the wear limit specification for the brake disc plates and drums, or the measurement method, please contact an expert repairer, we recommend an Authorised Mazda Repairer. The information is made freely available.

### ▼Disc brakes

Wet brake discs result in reduced braking efficiency. Dab the brake pedal when driving from a car wash to remove the film of water.

### ▼ ABS

# *MARNING №*

The ABS does not relieve you of your responsibility to drive with due care and attention.

The ABS helps you to maintain full steering and directional stability when you brake heavily in an emergency, by preventing the road wheels from locking.

### **▼**Brake override

In the event that the accelerator pedal becomes stuck or entrapped, applying steady and firm pressure to the brake pedal will both slow the vehicle and reduce engine power.

If you experience this condition:

- 1. Apply the brakes and bring your vehicle to a safe stop.
- 2. Turn the engine off.
- 3. Select park (automatic transmission only).
- 4. Apply the parking brake.

Inspect the accelerator pedal for any interferences. If none are found and the condition persists, have your vehicle towed to a repairer.

### HINTS ON DRIVING WITH ANTI-LOCK BRAKES

When the ABS is operating, the brake pedal will pulse. This is normal. Maintain pressure on the brake pedal. The ABS will not eliminate the dangers inherent when:

- you drive too close to the vehicle in front of you.
- the vehicle is aquaplaning.
- you take corners too fast.
- the road surface is poor.

## PARKING BRAKE

# A WARNING

Vehicles with an automatic transmission should always be left with the selector lever in position P (Park).

- Press the foot brake pedal firmly.
- Pull the parking brake lever up smartly to its fullest extent.
- Do not press the release button while pulling the lever up.
- If your vehicle is parked on a hill and facing uphill, select first gear or **P** (**Park**) and turn the steering wheel away from the kerb.
- If your vehicle is parked on a hill and facing downhill, select reverse gear or **P (Park)** and turn the steering wheel towards the kerb.

To release the parking brake, press the brake pedal firmly, pull the lever up slightly, depress the release button and push the lever down.

# PRINCIPLE OF OPERATION

HDC operates in conjunction with DSC to provide greater control when off-road, particularly when descending steep slopes. HDC operation is fully automatic when engaged.

During a hill descent when driving offroad, engine braking is used to control the speed of descent. If engine braking alone is insufficient to control the vehicle's speed, HDC will slow the vehicle using the braking system.

If the vehicle is fitted with a manual transmission, HDC should only be used in first, or reverse gears. If the vehicle is fitted with an automatic transmission, HDC should only be used in **D**, **R**, or Sport mode **1**. When in **D** the vehicle will select the most appropriate gear.

### ▼Before driving off-road

# A WARNING

Before driving off-road it is absolutely essential that in-experienced drivers become fully familiar with the vehicle's controls. In particular, Sport mode, Hill Descent Control (HDC).

### USING HILL DESCENT CONTROL

#### NOTE

When the rear differential lock is engaged, the HDC will not be available.

### ▼ Selecting HDC

HDC can be selected at speeds below 60 km/h (37 mph). To select HDC, press and release the HDC on switch. For item location: See **At a Glance** (page 3).

### NOTE

- Once HDC is selected, it will be activated at speeds below 35 km/h (22 mph) and deactivated above 40 km/h (25 mph) but will not turn off until vehicle speed exceeds 60 km/h (37 mph).
- HDC will be turned off when the ignition is off.



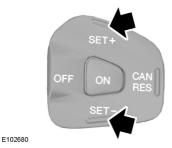
HDC on indicator on the switch will illuminate continuously when HDC is fully active.

HDC will temporarily deactivate during the following conditions:

• High brake temperature. Operation resumes once the brakes cool down.

- DSC indicator is illuminated and operating.
- Electronic locking differential is operating.

▼HDC operation (if equipped)



With HDC engaged, the speed of descent can be altered using the cruise control steering wheel switches. **SET +** increases the speed, and **SET –** decreases the speed.

To increase speed press, and hold, the **SET +** switch until the desired speed is achieved. When the switch is released, the speed will be maintained.

To decrease speed press, and hold, the SET - switch until the desired speed is achieved. When the switch is released, the speed will be maintained.

To increase or decrease speed gradually, tap the **SET +** or **SET –** switch as required. Each tap of the switch will increase, or decrease the speed in increments of 0.5 km/h (0.3 mph). The speed can also be increased or decreased by pressing the accelerator pedal or brake pedal respectively.

#### NOTE

- Each gear has a pre-determined minimum speed.
- Descent speed will only increase on a slope steep enough to provide additional momentum. Therefore, use of the + switch on a gentle slope may not increase the speed.
- If the brake pedal is depressed, HDC will be overridden and the brakes will operate as normal. When the brake pedal is released, HDC will resume control of the descent.
- If HDC is switched off during a descent, HDC assistance will fade out gradually. This is to prevent loss of control if HDC is switched off in error. HDC will resume control when switched back on if assistance is still required, but at the speed the vehicle is travelling when the pedal is released.
- When HDC is operating, a noise may be heard from the Brake Control Module in the engine compartment. This is normal.
- When HDC is operating, DSC indicator will flash.

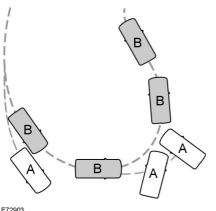
When driving off-road HDC can be permanently selected, but it will only provide assistance when the speed parameters are met.

### **PRINCIPLE OF OPERATION**

**V**Dynamic stability control (DSC)

# A WARNING

DSC does not relieve you of your responsibility to drive with due care and attention.



E72903

А	without DSC
В	with DSC

The DSC supports stability when the vehicle starts to slide away from your intended path. This is performed by braking individual wheels and reducing engine torque as needed.

The system also provides an enhanced traction control function by reducing engine torque and braking if the wheels spin when you accelerate. This improves your ability to pull away on slippery roads or loose surfaces, and improves comfort by limiting wheel spin in hairpin bends.

#### **Dynamic stability control (DSC)** warning lamp

The DSC warning lamp will flash when the system is operating. See Warning Lamps and Indicators (page 74).

▼Brake assist

# \land WARNING

Brake assist does not relieve you of your responsibility to drive with due care and attention.

Brake assist will detect when you brake heavily by measuring the rate at which you press the brake pedal. It will provide maximum braking efficiency as long as you press the pedal. Brake assist can reduce stopping distances in critical situations.

### ▼ Trailer sway assist

# A WARNING

- Trailer sway assist does not relieve *vou of vour responsibility to tow* with due care and attention.
- Disabling DSC will turn off the system.

Trailer sway assist is an enhanced feature of DSC, and automatically detects when an attached trailer starts to sway. If this situation occurs, the system will automatically brake individual wheels to stabilise the trailer and vehicle. In case a very severe sway is detected, the engine torque will be reduced and the vehicle will be slowed automatically.

### USING DYNAMIC STABILITY CONTROL

#### NOTE

- The system will be switched on automatically every time you switch the ignition on.
- When the system is deactivated with the transfer switch in 2H position, the DSC OFF indicator will flash twice to indicate that the system is completely turned off and remains illuminated. Press the switch again to enable the system. For item location: See **At a Glance** (page 3).
- DSC is switched off when the transfer switch is in 4L position or the Electronic Locking Differential is operating.

### ▼2-wheel drive vehicles

Press and hold the switch for one second to deactivate Engine Traction Control, Trailer Sway Assist and Brake Traction Control. Hill Launch Assist remains active.

### **▼**4-wheel drive vehicles

#### NOTE

All the stability control (DSC) functions are reactivated when **2H** position is selected.

Transfer shift switch in 4H position:

• Press and hold the switch for one second to deactivate Engine Traction Control and Trailer Sway Assist. Hill Descent Control, Hill Launch Assist and Brake Traction Control remain active.

#### Transfer shift switch in 4H or 4L position:

• Press and hold the switch for five seconds to deactivate Engine Traction Control, Trailer Sway Assist and Brake Traction Control. Hill Descent Control and Hill Launch Assist remain active.

#### Transfer shift switch in 2H position:

• Press and hold the switch for one second to deactivate Engine Traction Control, Brake Traction Control and Dynamic Stability Control including Trailer Sway Assist. Hill Descent Control and Hill Launch Assist remain active.

### PRINCIPLE OF OPERATION

Hill Launch Assist is a function which assists the driver in accelerating from a stop while on a slope. When the driver releases the brake pedal and depresses the accelerator pedal while on a slope, the function prevents the vehicle from rolling by maintaining the braking force after the brake pedal is released.

For vehicles with a manual transaxle, Hill Launch Assist operates on a downward slope when the shift lever is in the reverse (R) position, and on an upward slope when the shift lever is in a position other than the reverse (R) position.

For vehicles with an automatic transaxle, Hill Launch Assist operates on a downward slope when the shift lever is in the reverse (R) position, and on an upward slope when the shift lever is in a forward gear.

# A WARNING

Do not rely completely on Hill Launch Assist.

Hill Launch Assist is an auxiliary device for accelerating from a stop on a slope. The system only operates for about two seconds and therefore, relying only on the system, when accelerating from a stop is dangerous because the vehicle may move (roll) unexpectedly and cause an accident. The vehicle could roll depending on the vehicle's load or if it is towing something. In addition, for vehicles with a manual transaxle, the vehicle could still roll depending on how the clutch pedal or the accelerator pedal is operated.

Always confirm the safety around the vehicle before starting to drive the vehicle.

#### NOTE

- Hill Launch Assist does not operate on a gentle slope. In addition, the gradient of the slope on which the system will operate changes depending on the vehicle's load.
- Hill Launch Assist does not operate if the parking brake is applied, the vehicle has not stopped completely, the clutch pedal is released (MT vehicles), or any door is open.
- While Hill Launch Assist is operating, the brake pedal may feel stiff and vibrate, however, this does not indicate a malfunction.
- Hill Launch Assist does not operate while the DSC warning lamp is illuminated.
- Hill Launch Assist does not turn off even if the DSC off switch is pressed to turn off the TCS/DSC.
- Hill Launch Assist does not operate during rear differential lock.

# PRINCIPLE OF OPERATION

# A WARNING

The parking aid does not relieve you of your responsibility to drive with due care and attention.

### **CAUTION**

- Vehicles fitted with a trailer tow module not approved by us may not correctly detect obstacles.
- The sensors may not detect objects in heavy rain or other conditions that cause disruptive reflections.
- The sensors may not detect objects with surfaces that absorb ultrasonic waves.
- The parking aid does not detect obstacles moving away from the vehicle. They will only be detected shortly after they start to move towards the vehicle again.
- If you use a high pressure spray to wash your vehicle, only spray the sensors briefly from a distance not less than 20 centimetres (8 inches).
- Parking aid sends tones via the audio system fitted and approved by us. If this is not working the parking aid system will not work.

#### NOTE

- On vehicles fitted with a tow bar, the rear parking aid is deactivated automatically when any trailer lamps (or lighting boards) are connected to the socket via a trailer tow module we have approved.
- Keep the sensors free from dirt, ice and snow. Do not clean with sharp objects.
- The parking aid may emit false tones if it detects a signal using the same frequency as the sensors or if the vehicle is fully laden.
- The outer sensors may detect the side walls of a garage. If the distance between the outer sensor and the side wall remains constant for three seconds, the tone will switch off. As you continue, the inner sensors will detect rearward objects.

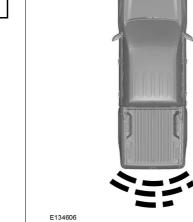
А

### USING THE PARKING AID VEHICLES WITH: REAR PARKING AID

# A WARNING

The parking aid does not relieve you of your responsibility to drive with due care and attention.

You will hear an intermittent tone at a distance of approximately 180 centimetres (71 inches) between the obstacle and rear bumper and approximately 50 centimetres (20 inches) to the side. Decreasing the distance accelerates the intermittent tone.



E134605

The parking aid is automatically activated when you select reverse gear with the ignition switched on.

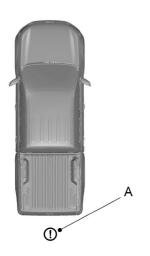
#### NOTE

- It will chime once to indicate that the parking aid is activated.
- The indicator lamps will be displayed in the multi-function display. For item location: See At a Glance (page 3).

#### A Distance Indicator.

As the distance decreases the indicator moves towards the vehicle.

A continuous tone will start at a distance of less than 40 centimetres (15 inches) to the rear bumper.



E134608

A trailer symbol indicates there is a trailer attached and the system is disabled.

E134607

A Malfunction indicator.

#### NOTE

If a malfunction is indicated the system will be disabled and a unique tone will be heard. Have the system checked by a properly trained technician.

### **REAR VIEW CAMERA\***

# A WARNING

- The operation of the camera may vary depending on the ambient temperature, vehicle and road conditions.
- The distances shown in the display may differ from the actual distance.
- Do not place objects in front of the camera.

The camera is located on the tailgate below the badge.



▼Switching the rear view camera on

# A WARNING

• The camera may not detect objects that are close to your vehicle.

Switch the ignition and the audio unit on. Move the transmission selector lever to reverse.

The image is displayed on the rear view mirror screen.

The camera may not operate correctly in the following conditions:

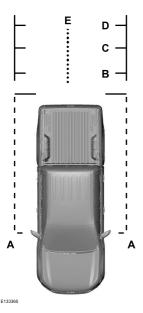
- Dark areas.
- Intense light.
- If the ambient temperature increases or decreases rapidly.
- If the camera is wet, for example in rain or high humidity.
- If the camera's view is obstructed, for example by mud.

### ▼ Using the display

# A WARNING

- Obstacles above the camera position will not be shown. Inspect the area behind your vehicle if necessary.
- Marks are for general guidance only, and are calculated for vehicles in maximum load conditions on an even road surface.

The lines show the distance from the outer edge of the front tyre plus two inches (51 millimeters) and the rear bumper.



A: Exterior mirror clearance-4 inches (0.1 meter)

B: Red-up to 12 inches (0.3 meter)

C: Amber-39 inches (1 meter) D: Green-79 inches (2 meter)

D: Green-79 inches (2 meter)

E: Black-centre line of the projected vehicle path

#### NOTE

When reversing with a trailer, the lines on the screen are not shown. The camera will show your vehicle direction and not the trailer.

#### ▼Switching the rear view camera off

#### NOTE

- Move the transmission selector lever from reverse gear. The display will switch off after a short period.
- The system will automatically switch off once your vehicle speed has reached approximately 15 km/h.

# PRINCIPLE OF OPERATION

# A WARNING

The system does not relieve you of your responsibility to drive with due care and attention.

Cruise control allows you to control your speed using the switches on the steering wheel. You can use cruise control when you exceed approximately 30 km/h (18 mph).

### **USING CRUISE CONTROL**

# A WARNING

Do not use cruise control in heavy traffic, on twisty roads or when the road surface is slippery.

### ▼Switching cruise control on

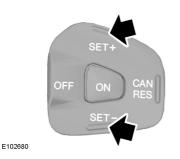


E102679

#### NOTE

The system is ready for you to set a speed.

### ▼ Setting a speed



Press to store and maintain your current speed. The cruise control indicator will illuminate. See **Warning Lamps and Indicators** (page 74).

### ▼Changing the set speed

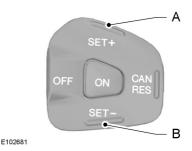
# *☆ WARNING*

Vehicles with manual transmission: When you are going downhill, your speed may increase above the set speed. The system will not apply the brakes. Change down a gear and press the SET – switch to assist the system in maintaining the set speed.

Vehicles with automatic transmission: When you are going downhill, transmission will downshift to attempt to hold the speed. The driver may also have to apply the brake to maintain the speed. The set speed will turn off if the brake is applied.

#### NOTE

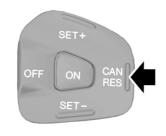
If you accelerate by pressing the accelerator pedal, the set speed will not change. When you release the accelerator pedal, you will return to the speed that you previously set if the cruise control indicator is still illuminated.



А	Accelerate
В	Decelerate

To increase speed, press and hold the SET + switch until the desired speed is achieved. When the switch is released, the speed will be maintained. To decrease speed, press and hold the SET – switch until the desired speed is achieved. When the switch is released, the speed will be maintained. To increase or decrease speed gradually, tap the SET + or SET - switch as required. Each tap of the switch will increase or decrease the speed in increments of 1 km/h (0.6 mph). The speed can also be increased or decreased by pressing the accelerator pedal or brake pedal respectively.

▼Cancelling the set speed



E102682

Press the brake pedal or the **CAN RES** switch.

#### NOTE

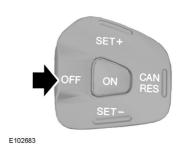
The system will no longer control your speed. The cruise control indicator will not illuminate but the system will retain the speed that you previously set.

#### **V**Resuming the set speed



The cruise control indicator will illuminate and the system will attempt to resume the speed that you previously set.

#### ▼ Switching cruise control off



The system will not retain the speed that you previously set. The cruise control indicator will not illuminate. Any of the following action may also switch off the system:

- Depressing the brake pedal.
- Applying the parking brake.
- Depressing the clutch pedal.
- Selecting neutral gear.

### **GENERAL INFORMATION**

# A WARNING

- Use load securing straps to an approved standard, e.g. DIN.
- Make sure that you secure all loose items properly.
- Place luggage and other loads as low and as far forward as possible within the luggage or loadspace.
- Do not exceed the maximum front and rear axle loads for your vehicle. See Vehicle identification (page 210).
- Do not exceed the maximum gross vehicle weight stated on the vehicle identification plate. See Vehicle identification (page 210).

# **CAUTION**

Do not allow items to contact the rear window.

### TAILGATE

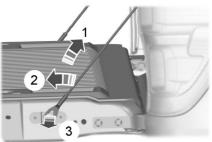
#### NOTE

The tailgate can be lowered for better ingress/egress of the loads.

## **CAUTION**

- Do not exceed the maximum permissible tailgate load of 220 kilograms (485 pounds).
- Do not lower the tailgate completely if a tow ball or a bumper is fitted.
- Make sure that you keep a firm grip of the tailgate to prevent it from dropping down.

#### Lowering the tailgate



E135868

1	Raise the tailgate slightly.
2	Pull the support lead rearwards.
3	Release the support lead from tailgate.
4	Repeat steps 1 to 3 to pull out the support lead on the other side.

### LOAD RETAINING FIXTURES

### ▼Rope hooks\*

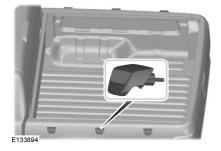
#### NOTE

The number of rope hooks may vary depending on your vehicle model.

#### Type 1



#### Type 2



### ▼Load rest

# A WARNING

A loaded load rest alters the vehicle's centre of gravity and aerodynamics. Take care when cornering, driving in crosswinds and at high speeds.

# **CAUTION**

Do not exceed the permissible gross weight. See **Vehicle Identification Plate** (page 210).



#### NOTE

Secure luggage or cargo placed on the load rest with the load rest stoppers.

# GENERAL DRIVING POINTS

#### ▼ Vehicles with a diesel engine

If the low fuel level warning lamp comes on, refuel as soon as possible. If you continue driving without refuelling, the engine will start to run unevenly. This indicates that you are about to run out of fuel. Refuel immediately.

### SAVING FUEL AND PROTECTION OF THE ENVIRONMENT

How you operate your Mazda determines how far it will travel on a tank of fuel. Use these suggestions to help save fuel and reduce CO2.

- Avoid long warm-ups. Once the engine runs smoothly, begin driving.
- Avoid fast starts.
- Drive at lower speeds.
- Anticipate when to apply the brakes (avoid sudden braking).
- Follow the maintenance schedule (page 183)and have an expert repairer, we recommend an Authorised Mazda Repairer perform inspections and servicing.
- Use the air conditioner only when necessary.
- Slow down on rough roads.
- Keep the tyres properly inflated.
- Do not carry unnecessary weight.
- Do not rest your foot on the brake pedal while driving.
- Keep the wheels in correct alignment.
- Keep windows closed at high speeds.
- Slow down when driving in crosswinds and headwinds.

### **RUNNING-IN**

▼ Tyres

# A WARNING

New tyres need to be run-in for approximately 500 kilometres (300 miles). During this time, you may experience different driving characteristics.

#### ▼Brakes and clutch

# A WARNING

Avoid heavy use of the brakes and clutch if possible for the first 150 kilometres (100 miles) in town and for the first 1500 kilometres (1000 miles) on motorways.

#### **▼**Engine

### **CAUTION**

Avoid driving too fast during the first 1500 kilometres (1000 miles). Vary your speed frequently and change up through the gears early. Do not labour the engine.

### COLD WEATHER PRECAUTIONS

The functional operation of some components and systems can be affected at temperatures below -30 °C (-22 °F).

### **REDUCED ENGINE PERFORMANCE**

Your vehicle can be driven briefly if the engine overheats, without damage to the engine. The engine will continue to operate with limited power. The distance you can travel depends on ambient temperature, vehicle load, and terrain. If the needle moves to the upper limit position, the engine is overheating. See **Gauges** (page 73).

If the temperature continues to rise, the fuel supply to the engine will be reduced. The air conditioning (if fitted) will also be turned off and the engine cooling fan will operate.

## **CAUTION**

Continued operation will increase the engine temperature, and cause the engine to shut down completely.

- Stop your vehicle as soon as possible.
- Immediately turn off the engine to prevent severe engine damage.
- Wait for the engine to cool down.
- Check the coolant level. See Engine Coolant Check (page 178).
- Have the vehicle checked by an expert immediately.

### DRIVING THROUGH WATER

#### ▼Driving through water

# A WARNING

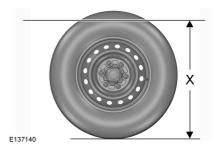
Never cross fast-flowing deep streams, as your vehicle could be swept away.

## **CAUTION**

- Drive through water in an emergency only, and not as part of normal driving.
- Engine damage can occur if water enters the air filter.
- Always try to determine the depth of a crossing before driving the vehicle through.

In an emergency, the vehicle can be driven through water to a maximum depth as shown and at a maximum speed of 7 km/h (4 mph). Extra caution should be exercised when driving through flowing water.

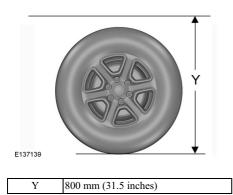
#### 4x2



600 mm (23.6 inches)

Х

# 4x2 (vehicles with increased ride height) and 4x4



When driving in water, engage first gear and low range (if available), maintain a steady walking pace speed keeping the bow wave in front of the vehicle and do not stop. After driving through water, and as soon as it is safe to do so:

- Depress the brake pedal lightly and check that full brake function is achieved.
- Check that the horn works.
- Check that the vehicle's lights are fully operational.
- Check the power assistance of the steering system.

### **VEHICLE LOADING**

# *∆* WARNING

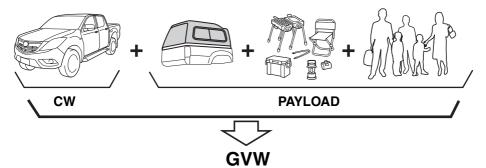
<u>Never overload the vehicle and always observe the vehicle's weight ratings:</u> Overloading a vehicle is dangerous. The results of overloading can have serious consequences in terms of passenger safety. Too much weight on a vehicle's suspension system can cause spring or shock absorber failure, brake failure, handling or steering problems, irregular tyre wear, tyre failure or other damage. Overloading makes a vehicle harder to drive and control. It also increases the distance required for stopping. In cases of serious overloading, brakes can fail completely,

particularly on steep grades.

#### ▼GVW (Gross Vehicle Weight)

#### GVW is CW + PAYLOAD.

- GVW is Gross Vehicle Weight.
- CW is Curb Weight.
- Payload is the combination weight of accessories, cargo, hand luggage and passengers.



The maximum GVW is specified for each vehicle. Do not exceed the specified weight.

#### ▼GAW (Gross Axle Weight)

**GAW** (Gross Axle Weight) is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

### **TOWING A TRAILER\***

Your Mazda was designed and built primarily to carry passengers and cargo.

If you tow a trailer, follow these instructions because driver and passenger safety depends on proper equipment and safe driving habits. Towing a trailer will affect handling, braking, durability, performance, and economy.

# A WARNING

*Never overload vehicle or trailer. Consult an Authorised Mazda Dealer if you need further details.* 

# **CAUTION**

- Maximum permissible axle loads are not to be exceeded while towing and transporting.
- Do not exceed a speed of 80 km/h (50 mph) when towing with a laden weight greater than 3,000 kg (6,613 lbs).
- Do not tow a trailer during the first 1,000 km (600 miles) of your new Mazda, If you do, you may damage the engine, transmission, differential, wheel bearings, and other power train components.

#### NOTE

Vehicles equipped with dynamic stability control (DSC) has trailer sway assist. See Dynamic Stability Control (page 134).

Place loads as low and central to the axle(s) of the trailer as possible. If you are towing with an unladen vehicle, the load in the trailer should be placed toward the nose, within the maximum nose load, as this gives the best stability.

The stability of the vehicle to trailer combination is very much dependant on the quality of the trailer.

Be aware of the towing load weight differences when towing at high altitudes. For altitudes exceeding 1,000 meters (3,281 feet), always reduce the towing load by 10% for every 1,000 meters (3,281 feet) increase in altitude from the load indicated under the maximum

GCW (gross combination weight) heading in the maximum trailer towing-load table. If the determined maximum total towing load weight is exceeded, the engine and other power train parts may be damaged.

### **▼**Weight limits

The total trailer weight, gross combination weight and trailer nose weight must be within the prescribed limits in the Trailer Towing-Load Table.

#### TRAILER TOWING-LOAD TABLE

Because vehicle weights vary, adjustments must be made to meet the requirements in this table.

For any further details and advice please consult Authorised Mazda Repairer.

Variant	Drive	Transmission	Without trailer brake kg (lbs)	With trailer brake kg (lbs)	Max trailer nose weight kg (lbs)
	4X2	Manual	750 (1654)	2200 (4850)	220 (485)
2.5L Petrol	$4x2^*$	Manual	750 (1654)	1700 (3748)	170 (375)
	4X4	Manual	750 (1654)	1100 (2425)	110 (243)
2.2L Diesel	4X2	Manual	750 (1654)	2200 (4850)	220 (485)
(88 kW & 92	$4x2^*$	Manual	750 (1654)	1600 (3527)	160 (353)
kW)	4X4	Manual	750 (1654)	1600 (3527)	160 (353)
	4X2	Manual	750 (1654)	2500 (5512)	250 (551)
	4x2 <sup>*</sup> (Final drive ratio 3.31)	Manual	750 (1654)	1800 (3968)	180 (397)
2.2L Diesel	4x2* (Final drive ratio 3.55)	Manual	750 (1654)	3350 (7386)	335 (739)
(110 kW)	$4x2^*$	Auto	750 (1654)	3350 (7386)	335 (739)
	4X4	Manual and Auto	750 (1654)	3350 (7386)	335 (739)
3.2L Diesel	4x2 *and 4x4 (Final drive ratio 3.31)	Manual	750 (1654)	1800 (3968)	180 (397)
	4x2 <sup>*</sup> and 4x4 (Final drive ratio 3.55)	Manual	750 (1654)	3350 (7386)	335 (739)
	$4x2^*$	Auto	750 (1654)	3350 (7386)	335 (739)
	4X4	Auto	750 (1654)	3350 (7386)	335 (739)

\* Vehicles with increased ride height.

# A WARNING

Always keep tow loads within specified limits as indicated in the Trailer Towing-Load Table:

Attempting to tow loads greater than those specified is dangerous as it may cause serious handling and performance problems that could result in personal injury or vehicle damage, or both.

Always keep the trailer nose weight within the specified limits in the Trailer Towing-Load Table:

Loading the trailer with more weight in the rear than in the front is dangerous. This could cause loss of vehicle control and an accident.

#### NOTE

- The total trailer weight and nose weight can be determined by weighing the trailer on platform scales at a highway weighing station or a trucking company.
- Appropriate total trailer weight and nose weight may prevent the danger of trailer sway from crosswinds, rough roads, or other causes.

#### ▼ Trailer hitch

When towing a trailer, use a Mazda genuine tow bar on the vehicle and an appropriate trailer hitch. Use the original bolt holes drilled by the vehicle manufacture for securing the trailer hitch. Contact your Authorised Mazda Dealer for more information. See Towing equipment dimensions.(page 214)

# **CAUTION**

If a Mazda genuine tow bar is not used, it could result in damage to the frame.

### **▼**Tyres

When towing a trailer, make sure all tyres are inflated to the recommended cold-tyre pressure, as indicated on the tyre pressure chart on the driver's door. Trailer tyre size, load rating, and inflation pressures should conform to tyre manufacturer specifications.

#### ▼Safety chains

Safety chains must be used as a precautionary measure should the trailer become unintentionally unhitched. They should cross under the trailer tongue and attach to the hitch. Leave enough slack to allow full turns. Consult literature published by your trailer or hitch manufacturer for more details.

# *∆* WARNING

*Make sure the safety chain is securely attached to both the trailer and the vehicle prior to departure:* 

Towing a trailer without using a safety chain securely attached to both the trailer and the vehicle is dangerous. If damage occurs to the coupling unit or hitch ball, the trailer could wander into another lane and cause a collision.

#### ▼ Trailer tow module

#### NOTE

Ensure that the indicator and brake lamps do not flicker with engine running while using a trailer with low power LED lamps.

To overcome flickering and to ensure the correct operation of the rear parking aid, a trailer patch harness should be connected between the trailer and the vehicle.

### **CAUTION**

Do not connect the trailer patch harness to the vehicle when the trailer is not connected.

#### NOTE

The trailer patch harness is available with the Authorised Mazda Repairer.

#### ▼ Trailer lights

### **CAUTION**

Do not connect a trailer lighting system directly to the lighting system of your Mazda. This may damage your vehicle's electrical system and lighting systems. To connect the lighting system, consult an Authorised Mazda Dealer.

#### ▼ Trailer brakes

If the total trailer weight exceeds 750 kg (1,650 lb) trailer brakes are required. If your trailer has brakes, make sure they meet regulations.

# A WARNING

<u>Do not connect a hydraulic trailer-brake system to your vehicle's brake system:</u> Connecting a hydraulic trailer-brake system directly to the vehicle brake system is dangerous and will result in inadequate braking and possible injury.

#### ▼ Trailer towing tips

#### **Before driving**

- Verify that your Mazda maintains a near-normal attitude when a loaded or unloaded trailer is connected. Do not drive if it has an abnormal front-up or front-down position. Inspect for incorrect nose weight, worn suspension parts, and trailer overloading. Have the vehicle inspected by an expert repairer, we recommend an Authorised Mazda Repairer.
- Make sure the trailer cargo is secure to prevent it from shifting.
- Make sure the mirrors meet all government regulations. Inspect them.
- Before starting out, inspect the operation of all vehicle and trailer lights and all vehicleto-trailer connections. Stop and re-inspect all lights and connections after driving a short distance.

#### **Driving**

- Your Mazda will handle differently with a trailer in tow, so practice turning, backing, and stopping in a traffic-free area.
- Take time to get accustomed to the extra weight and length.
- Do not exceed 80 km/h (50 mph) when towing with a laden weight greater than 3000 kg (6613 lbs). If the local legal maximum speed with a trailer in tow is less than 80 km/h (50 mph), do not exceed the legal speed.

# **CAUTION**

If the vehicle exceeds 80 km/h (50 mph) with a trailer in tow, the vehicle could be damaged.

• When ascending a hill, shift into a lower gear to reduce the possibility of overloading or overheating the engine, or both.

# A WARNING

#### The overrun brake on a trailer is not controlled by the anti-lock braking system.

- When descending a hill, shift into a lower gear and use engine compression as a braking effect. Pay constant attention to speed and use the brakes only as needed. Holding the brake pedal down for a prolonged period may cause the brakes to overheat and lose power.
- If the vehicle does not advance in 4x2 mode, switch to 4X4 mode.
- When towing a trailer or driving with heavy loads in mountainous areas on steep gradients, switch off the air conditioning and watch the temperature gauge carefully. If the needle moves to the H-position, the engine is overheating. Switch off the engine immediately. Do not resume the journey until the engine has cooled down. The air conditioning system may switch off automatically to prevent overheating of the engine.

#### **Parking**

Avoid parking on an incline with a trailer. If this must be done, follow these instructions.

#### Parking on an Incline

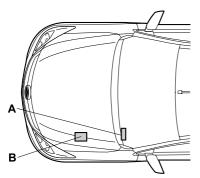
- 1. Set the parking brake and the brakes.
- 2. Have someone block the wheels of the vehicle and trailer while you apply the brakes.
- 3. After the wheels are blocked, release the parking brake and the brakes slowly, allowing the blocks to bear the load.
- 4. Set the parking brake firmly.
- 5. If the vehicle has an automatic transmission, put the selector lever in P. If it has a manual transmission, place the gear shift in 1 or R.

#### Starting on an Incline

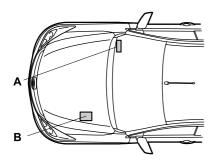
- 1. Start the engine.
- 2. Release the parking brake and slowly pull away a short distance from the wheel blocks.
- 3. Stop on the nearest level ground, set the parking brake, and pick up the wheel blocks.

# FUSE BOX LOCATIONS

#### Left-hand drive



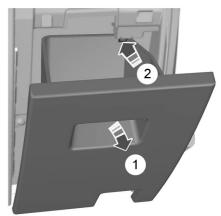
#### **Right-hand drive**



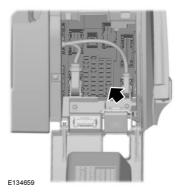
А	Passenger compartment fuse box
В	Engine compartment fuse box

### ▼ Passenger compartment fuse box

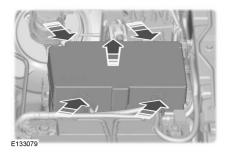
Fully open the driver's side storage compartment.



E133080



#### ▼Engine compartment fuse box



Release the catches and remove the cover.

### **CHANGING A FUSE**

# A WARNING

- Do not modify the electrical system of your vehicle in any way. Have repairs to the electrical system and the replacement of relays and high current fuses carried out by an Authorised Mazda Repairer.
- Switch the ignition and all electrical equipment off before touching or attempting to change a fuse.

# **CAUTION**

Fit a replacement fuse with the same rating as the one you have removed.

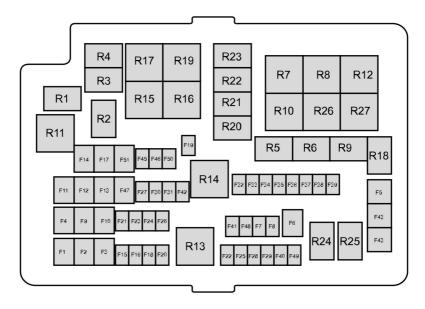
#### NOTE

- You can identify a blown fuse by a break in the filament.
- All fuses, except high current fuses, are a push fit.

### Fuses

# **FUSE SPECIFICATION CHART**

#### ▼Engine compartment fuse box



E133601

The equipment and installation position varies by vehicle.

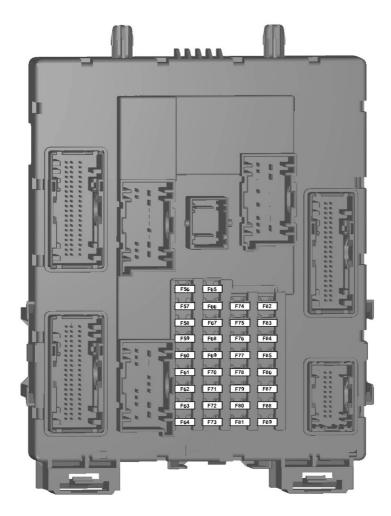
Fuse	Ampere rating	Circuits protected
1	60	CEM Power A
2	60	CEM Power B
3 (Petrol)	50	Engine cooling fan
3 (Diesel)	60	Glow plug control module
4	40	ABS module
5	30	Electric windows
6	25	Four wheel drive (4×4) motor ground
7	—	Not used
8	—	Not used
9	20	Power seat
10	25	Electric windows

### Fuses

Fuse	Ampere rating	Circuits protected
11	30	Blower motor
12	25	Four wheel drive (4×4) motor power
13	20	Starter solenoid
14	20	Heated rear window
15 (Petrol)	10	Flex-fuel pump
15 (Diesel)	15	Vapouriser glow plug
16	10	A/C Clutch
17	25	Electric windows
18	25	Windscreen wiper motor
19	25	Windscreen wiper motor ground
20	20	Cigar lighter
21	15	Horn
22 (Petrol)	15	Fuel injectors or flex-fuel valve
22 (Diesel)	_	Not used
23	10	Differential lock solenoid
24	20	Auxiliary power socket
25	15	Ignition coils, temperature and mass air flow sensor, glow
25	15	plug module, vacuum control
26	7.5	Electronic control module (ECM)
27	10	Transmission control module (TCM)
28	10	Heated exhaust gas oxygen, universal heated exhaust gas oxygensensor, relay coils, fuel cut off switch
29	15	Electronic control module (ECM)
30	15	Battery monitoring sensor
31	20	Auxiliary power socket
32	5	A/C pressure switch
33	10	Transmission control module (TCM)
34	—	Not used
35	20	CEM
36	5	ABS module
37	10	Headlamp levelling
38	20	Heated seat
39	10	Power mirrors
40 (Petrol)	_	Not used
40 (Diesel)	10	Vapouriser pump
41	_	Not used
42	10	Alarm horn
43	30	Heated windscreen
44	30	Heated windscreen
45	25	ABS module
46	20	Auxiliary power socket
47	40	Trailer tow module

Fuse	Ampere rating	Circuits protected	
48	_	Not used	
49	—	Not used	
50	5	Ignition relay, relay coils	
51	20	Trailer tow	
51	30	Electric windows	
	Relay	Circuits switched	
	R1 (Petrol)	Not used	
	R1 (Diesel)	Key interlock	
	R2	Wiper on or off	
	R3	Horn	
	R4	A/C clutch	
	R5	Differential lock	
	R6	Wiper Hi/Lo	
	R7 (Petrol)	Engine cooling fan low	
	R7 (Diesel)	Not used	
	R8 (Petrol)	Engine cooling fan high	
	R8 (Diesel)	Not used	
	R9	Flex-fuel pump, vapouriser glow plug	
	R10	Heated rear window	
	R11	Heated windscreen	
	R12	Not used	
	R13	Electronic control module (ECM) power hold	
	R14	Ignition	
	R15	4×4 motor 2 (Clockwise)	
	R16	4×4 motor 1 (Counter clockwise)	
	R17	4×4 motor	
	R18	Security horn	
	R19	Starter	
R20		Not used	
R21		Not used	
R22		Not used	
	R23	Not used	
	R24	Not used	
	R25	Not used	
	R26	Blower motor	
	R27	Power seat	





E133602

Fuse	Ampere rating	Circuits protected	
56	20	Fuel pump	
57	_	Not used	
58	—	Not used	
59	5	Passive anti-theft system (PATS)	
60	10	Interior lamp, driver's door switch pack, mood lights, automatic shifter	
61	15	Spare	
62	5	Rain sensor module	
63	5	Tachograph	
64	_	Not used	
65	—	Not used	
66	20	Driver's door unlock, central double locking	
67	5	Stop lamp switch	
68	—	Not used	
69	5	Instrument cluster, integrated control module (ICP), tracking and blocking module	
70	20	Central locking	
71	5	Air conditioning	
72	7.5	Alarm horn	
73	5	On-board diagnostics II	
74	20	High beam	
75	15	Front fog lamps	
76	10	Reversing lamp, rear view mirror	
77	20	Washer pump	
78	5	Ignition switch	
79	15	Low audio/FSO audio, multifunction display	
80	20	Multi-function display, hi audio, sync module	
81	5	Interior motion sensor	
82	20	Washer pump ground	
83	20	Central locking ground	
84	20	Driver's door unlock, central double locking ground	
85	7.5	Instrument cluster, parking aid module, manual air conditioning, track and block IGN sense, rear view camera rear view mirror	
86	10	Restraint system, passenger airbag deactivation indicator	
87	5	Tachograph	
88	—	Not used	
89	_	Not used	

The equipment and installation position varies by vehicle.

### **TOWING POINTS**



A Front towing eye

### TOWING THE VEHICLE ON FOUR WHEELS

#### ▼ All vehicles

# A WARNING

- Switch the ignition on when your vehicle is being towed. The steering lock will engage and the direction indicators and brake lamps will not work if you do not.
- The brake servo and the power steering pump do not operate unless the engine is running. Press the brake pedal harder and allow for increased stopping distances and heavier steering.

# **CAUTION**

- Too much tension in the tow rope could cause damage to your vehicle or the vehicle that is towing.
- **4X2:** Select neutral when your vehicle is being towed.
- **4X4:** In the event of a breakdown or a mechanical failure of the transmission your vehicle must be recovered with either **ALL** wheels off the ground or transported with **ALL** wheels on the ground while the vehicle is in 4X2 mode. Under no circumstances should the vehicle be towed with **ALL** wheels on the ground when in 4X4 mode.

Drive off slowly and smoothly without jerking the vehicle that is being towed.

#### ▼ Vehicles with automatic transmission

### **CAUTION**

- It is recommended not to tow with the drive wheels on the ground. However, if it is required to move the vehicle from a dangerous location, do not tow your vehicle faster than 80 km/h (50 mph) or further than 80 kilometres (50 miles).
- In the event of a mechanical failure of the transmission the drive wheels must be lifted clear of the ground.

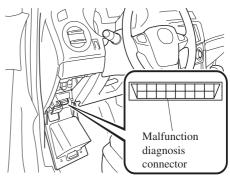
### **GENERAL INFORMATION**

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of Mazda Authorised Repairers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialised tools developed specifically for servicing your vehicle.

In addition to regular servicing, we recommend that you carry out the following additional checks.

Be careful not to hurt yourself when inspecting your vehicle, replacing a tyre, or doing some kind of maintenance such as car washing. In particular, wear thick work gloves such as cotton gloves when touching areas that are difficult to see while inspecting or working on your vehicle. Doing inspections or procedures with your bare hands could cause injury. The malfunction diagnosis connector is designed exclusively for connecting the specially designed device to perform onboard diagnosis.

Do not connect any devices other than the specially designed malfunction diagnosis devices for servicing. If any device other than the malfunction diagnosis device is connected, it may affect the vehicle's electrical devices or lead to damage such as battery depletion.



# *☆ WARNING*

- Switch the ignition off before touching or attempting adjustment of any kind.
- Do not touch the electronic ignition system parts after you have switched the ignition on or when the engine is running. The system operates at high voltage.
- Keep your hands and clothing clear of the engine cooling fan. Under certain conditions, the fan may continue to run for several minutes after you have switched the engine off.

# **CAUTION**

When carrying out maintenance checks, make sure that filler caps are fitted securely.

#### ▼ Daily checks

- Exterior lamps.
- Interior lamps.
- Warning lamps and indicators.

#### ▼Check when refuelling

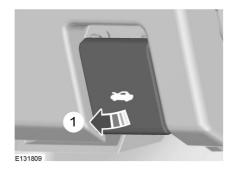
- Engine oil level. See Engine Oil Check (page 177).
- Brake fluid level. See Brake and Clutch Fluid Check (page 179).
- Washer fluid level. See Washer Fluid Check (page 181).
- Tyre pressures (when cold). See **Technical Specifications** (page 209).
- Tyre condition. See **Tyre Care** (page 202).

#### ▼ Monthly checks

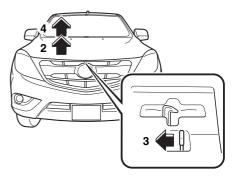
- Engine coolant level (engine cold). See **Engine Coolant Check** (page 178).
- Pipes, hoses and reservoirs for leaks.
- Power steering fluid level. See Power Steering Fluid Check (page 179).
- Air conditioning operation.
- Parking brake operation.
- Horn operation.
- Tightness of wheel nuts. See **Technical Specifications** (page 209).

### **OPENING AND CLOSING THE BONNET**

#### **V**Opening the bonnet



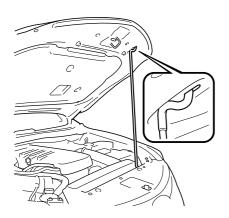
1. Pull the lever under the instrument panel. For item location: See At a Glance (page 3).



- 2. Raise the bonnet slightly.
- 3. Move the catch towards the left-hand side of the vehicle.

### Maintenance

4. Open the bonnet.



5. Support it with the strut.

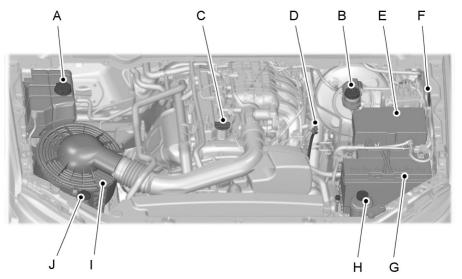
#### **V**Closing the bonnet

#### NOTE

Make sure that the bonnet is closed properly.

Lower the bonnet and allow it to drop from under its own weight for the last 20 -30 centimetres (8 - 11 inches).

# **UNDER BONNET OVERVIEW - MZI 2.5**



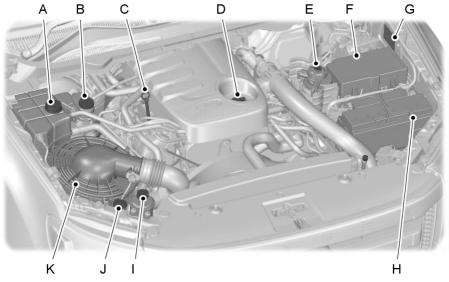
E131920

А	Engine coolant reservoir cap. See Engine Coolant Check (page 178).
В	Brake and clutch fluid reservoir cap. See Brake and Clutch Fluid Check (page 179).
С	Engine oil filler cap <sup>1</sup> . See <b>Engine Oil Check</b> (page 177).
D	Engine oil dipstick <sup>1</sup> . See Engine Oil Check (page 177).
Е	Engine junction box. See Fuses (page 159).
F	Vehicle Identification Plate. See Vehicle identification (page 210).
G	Battery. See Vehicle battery (page 190).
Н	Power steering fluid reservoir cap. See Power Steering Fluid Check (page 179).
Ι	Air Cleaner.
J	Washer fluid reservoir cap. See Washer Fluid Check (page 181).

<sup>1</sup> The filler caps and the engine oil dipstick are coloured for easy identification.

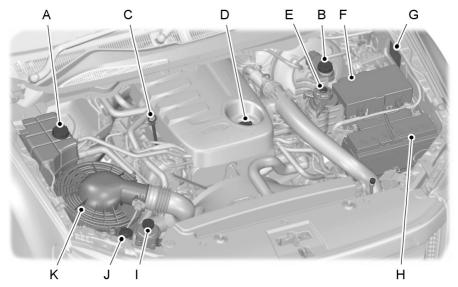
# UNDER BONNET OVERVIEW - MZ-CD 2.2

### ▼RHD



E131930

### ▼LHD



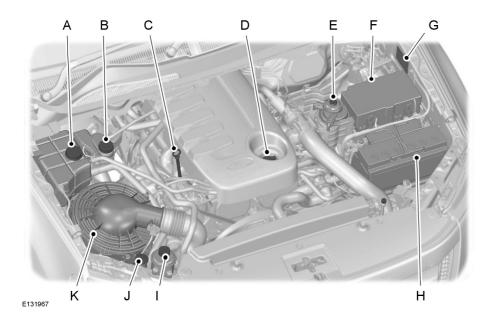
E131931

А	Engine coolant reservoir cap. See Engine Coolant Check (page 178).
В	Brake and clutch fluid reservoir cap. See Brake and Clutch Fluid Check (page 179).
С	Engine oil dipstick <sup>1</sup> . See Engine Oil Dipstick (page 176).
D	Engine oil filler cap <sup>1</sup> . See <b>Engine Oil Check</b> (page 177).
Е	Fuel filter water trap. See Draining the Fuel Filter Water Trap (page 180).
F	Engine junction box. See Fuses (page 159).
G	Vehicle Identification Plate. See Vehicle identification (page 210).
Н	Battery. See Vehicle battery (page 190).
Ι	Power steering fluid reservoir cap. See Power Steering Fluid Check (page 179).
J	Washer fluid reservoir cap. See Washer Fluid Check (page 181).
K	Air Cleaner.

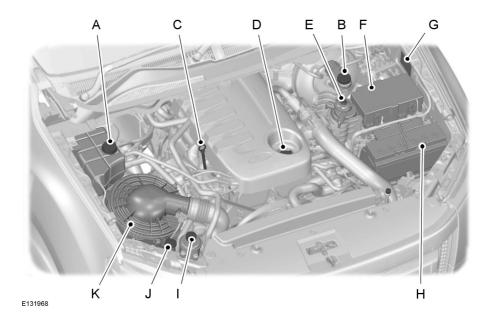
<sup>1</sup> The filler caps and the engine oil dipstick are coloured for easy identification.

# UNDER BONNET OVERVIEW - MZ-CD 3.2 I5

### ▼RHD



### ▼LHD

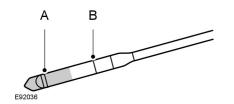


Α	Engine coolant reservoir cap. See Engine Coolant Check (page 178).
В	Brake and clutch fluid reservoir cap. See Brake and Clutch Fluid Check (page 179).
С	Engine oil dipstick <sup>1</sup> . See Engine Oil Dipstick (page 176).
D	Engine oil filler cap <sup>1</sup> . See <b>Engine Oil Check</b> (page 177).
Е	Fuel filter water trap. See Draining the Fuel Filter Water Trap (page 180).
F	Engine junction box. See Fuses (page 159).
G	Vehicle Identification Plate. See Vehicle identification (page 210).
Н	Battery. See Vehicle battery (page 190).
Ι	Power steering fluid reservoir cap. See Power Steering Fluid Check (page 179).
J	Washer fluid reservoir cap. See Washer Fluid Check (page 181).
K	Air Cleaner.

<sup>1</sup> The filler caps and the engine oil dipstick are coloured for easy identification.

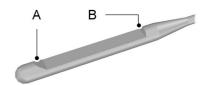
### Maintenance

### ENGINE OIL DIPSTICK - MZI 2.5



А	MIN
В	MAX

### ENGINE OIL DIPSTICK -MZ-CD 2.2/MZ-CD 3.2 I5



E71362

А	MIN
В	MAX

### **ENGINE OIL CHECK**

# **CAUTION**

Do not use oil additives or other engine treatments. Under certain conditions, they could damage the engine.

#### NOTE

The oil consumption of new engines reaches its normal level after approximately 5000 kilometres (3000 miles).

#### ▼Checking the oil level

# **CAUTION**

Make sure that the level is between the **MIN** and the **MAX** marks.

#### NOTE

- Check the level before starting the engine.
- Make sure that your vehicle is on level ground.
- Oil expands when it is hot. The level may therefore extend a few millimetres beyond the MAX mark.

Remove the dipstick and wipe it with a clean, lint free cloth. Replace the dipstick and remove it again to check the oil level. If the level is at the MIN mark, top up immediately.

#### ▼ Topping up

# A WARNING

- Only top up when the engine is cold. If the engine is hot, wait 10 minutes for the engine to cool down.
- Do not remove the filler cap when the engine is running.

Remove the filler cap.

## **CAUTION**

Do not top up further than the MAX mark.

Top up with fluid that meets the Mazda specification. See **Technical Specifications** (page 182). Replace the filler cap. Turn it until you feel a strong resistance.

### ENGINE COOLANT CHECK

### ▼ Checking the coolant level

# A WARNING

Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

## **CAUTION**

Make sure that the level is between the **MIN** and the **MAX** marks.

#### NOTE

Coolant expands when it is hot. The level may therefore extend beyond the **MAX** mark.

If the level is at the **MIN** mark, top up immediately.

### ▼ Topping up

# A WARNING

- Only top up when the engine is cold. If the engine is hot, wait 10 minutes for the engine to cool down.
- Do not remove the filler cap when the engine is running.
- Do not remove the filler cap when the engine is hot. Wait for the engine to cool down.
- Undiluted coolant is flammable and may ignite if spilt on a hot exhaust.

# **CAUTION**

- In an emergency, you can add just water to the cooling system to reach a vehicle service station. Have the system checked by a properly trained technician as soon as possible.
- Prolonged use of incorrect dilution of the coolant can cause engine damage from corrosion, overheating or freezing.

Unscrew the cap **slowly**. Any pressure will escape slowly as you unscrew the cap.

# **CAUTION**

Do not top up further than the MAX mark.

Top up with a 50/50 mixture of coolant and water using fluid that meets the Mazda specification. See **Technical Specifications** (page 182).

### POWER STEERING FLUID CHECK

# A WARNING

Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

# **CAUTION**

Make sure that the level is between the **MIN** and the **MAX** marks.

If the level is at the **MIN** mark, top up immediately.

### ▼ Topping up

Remove the filler cap.

## **CAUTION**

Do not top up further than the MAX mark.

Top up with fluid that meets the Mazda specification. See **Technical Specifications** (page 182).

### BRAKE AND CLUTCH FLUID CHECK

# A WARNING

- Use of any fluid other than the recommended brake fluid may reduce brake efficiency and not meet Mazda's performance standards.
- Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.
- If the level is at the MIN mark, have the system checked by a properly trained technician as soon as possible.

#### NOTE

- Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials may result in brake system damage and possible failure.
- The brake and the clutch systems are supplied from the same reservoir.

Top up with fluid that meets the Mazda specification. See **Technical Specifications** (page 182).

### DRAINING THE FUEL FILTER WATER TRAP

# A WARNING

Do not dispose of diesel in household refuse or the public sewage system. Use your local authorised waste disposal facilities.

#### NOTE

- Only add fuel that meets the Mazda specification. See **Fuel Quality** (page 118).
- The in-tank pump will turn off automatically after approximately 40 seconds.



E131831

#### For item location: See **Under Bonnet Overview** (page 172). See **Under Bonnet Overview** (page 174).

- 1. Switch the ignition off.
- 2. Connect and secure a suitable hose on the filter drain plug.
- 3. Route the other end of the hose to the suitable container.
- 4. Loosen the drain plug by approximately 1.5 turns.
- 5. Switch the ignition on to activate the in-tank pump.
- 6. Drain the water till it is replaced by a clean diesel fuel.
- 7. Switch the ignition off.
- 8. Tighten the drain plug and remove the hose.
- 9. Start the engine and check for leaks.

#### NOTE

The water-in-fuel indicator lamp will go out after approximately 2 seconds, with the engine running.

### WASHER FLUID CHECK

Top up the washer fluid reservoir when the washer fluid level indicator is on. See **Warning Lamps and Indicators**<sup>\*</sup> (page 74).

When topping up, use a mixture of washer fluid and water to help prevent freezing in cold weather and improve the cleaning capability. We recommend that you use only high quality washer fluid.

# **TECHNICAL SPECIFICATIONS**

### ▼ Vehicle fluids

Lubricant	Classi	fication					
Engine oil - Diesel (for markets with low sulphur content less than 350 ppm)	ACEA A5/B5 (prefered), A3/B3	SAE 5W-30 (prefered), 5W-40, 10W-40					
Engine oil - Diesel (for markets with high sulphur content equal and greater than 350 ppm)	ACEA E5-99, API CH-4 or higher	SAE 10W-30, 5W-40, 10W-40					
Engine oil - Petrol	API SM, ILSAC GF-4	SAE 5W-20, 5W-30					
Engine coolant	L405F (orange)						
Automatic transmission fluid	Mercon® LV (*)						
Manual transmission oil (6-speed)	BOT350-M3 (*)						
Manual transmission oil (5-speed)	API GL-4 or GL-5 75W-90						
Transfer case oil	Mercon® LV						
Front differential oil	API GL-5	SAE 80W-90					
Rear differential oil	API GL-5	SAE 75W-140					
Power steering fluid	Mercon® LV						
Brake/clutch fluid	DOT-3 or DOT-4 that are labeled FMVSS116						
A/C refrigerant	R-1	34A					
A/C compressor oil	Polyalkyl	ene Glycol					

(\*)Do not mix another type of fluid, otherwise physical failure may occur.

### **▼**Capacities

Variant	Item	Capacity in Litres (gallons)				
All	Power assisted steering fluid	1.2 (0.26)				
All	Windscreen washer system	5.5 (1.2)				
All	Fuel tank	80 (17.60)				
Automatic transmission (dry)	Transmission fluid	10.5 (2.31)				
Automatic transmission (wet)	Transmission fluid	9 (1.97)				
Manual transmission (5MT)	Transmission fluid	1.7 (0.37)				
Manual transmission (6MT)	Transmission fluid	2.7 (0.59)				
MZ-CD 2.2	Engine oil - with filter	8.6 (1.89)				
MZ-CD 2.2 (MT)	Cooling system	11.5 (2.53)				
MZ-CD 2.2 (AT)	Cooling system	11.9 (2.62)				
MZ-CD 3.2 I5	Engine oil - with filter	9.75 (2.14)				
MZ-CD 3.2 I5 (MT)	Cooling system	12.9 (2.84)				
MZ-CD 3.2 I5 (AT)	Cooling system	13.3 (2.93)				
MZI 2.5	Engine oil - with filter	6.7 (1.47)				
MZI 2.5	Cooling system	11.0 (2.42)				

### SCHEDULED MAINTENANCE

#### NOTE

After the prescribed period, continue to follow the described maintenance at the recommended intervals.

#### Emission control and related systems

The ignition and fuel systems are highly important to the emission control system and to efficient engine operation. Don't tamper with them.

All inspections and adjustments must be made by an expert repairer, we recommend an Authorised Mazda Repairer.

### ▼ Schedule

25.1		Nı	ımbe	r of	mon	ths o	r kile	omet	res, v	vhic	hever	con	nes fi	rst			
Maintenance Interval	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
inter var	×1000 km	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
PETROL ENGINE																	
Engine valve clearance	e						Ι						Ι				
Engine oil <sup>*1</sup>		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter <sup>*1</sup>		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Spark plugs							R						R				
Fuel filter				R			R			R			R			R	
Evaporative system (i	f installed)				Ι				Ι				Ι				Ι
DIESEL ENGINE																	
Engine oil		See the remark <sup>*1</sup> and <sup>*2</sup> below.															
Engine oil filter						S	See th	e ren	nark	*1 an	d *2 ł	below	ν.				
Fuel system (Drain wa	ater)	D	D		D	D		D	D		D	D		D	D		D
Fuel filter				R			R			R			R			R	

	Nı	Number of months or kilometres, whichever comes first														
Maintenance Interval Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
×1000 km	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
PETROL and DIESEL ENGIN	£															
Timing chain and tensioner					Repl	lace e	every	250,	000 1	km o	r 10 <u>-</u>	years				
Drive belts <sup>*3</sup>		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Cooling system (Including coolant level adjust- ment)	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Engine coolant					Repl	ace a	t firs	t 250	,000	km o	r 10	years	5			
Air filter <sup>*4</sup>		С		R		С		R		С		R		С		R
Fuel lines and hoses		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Battery condition (for leak and corrosion)		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Brake lines, hoses and connection	5	Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Brake fluid <sup>*5</sup>	1	<u> </u>		R				R				R				R
Parking brake		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Power brake unit (Brake booster) and hoses		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Disc brakes <sup>*6</sup>	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Drum brakes <sup>*6</sup>		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Power steering fluid, lines, hoses and connections	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Steering operation and linkages <sup>*6</sup>		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Clutch		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Manual transmission	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Manual transmission fluid <sup>*7</sup>					Repl	lace e	every	250,	0001	km o	r 10 y	years				
Automatic transmission	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Automatic transmission fluid <sup>*7</sup>					Repl	lace e	every	250,	0001	km o	r 10 <u>-</u>	years				
Rear differential (4X2)	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Rear differential oil (4X2) <sup>*7</sup>					Repl	lace e	every	250,	0001	km o	r 10 <u>-</u>	years				
Front and rear differential (4X4)		Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Front and rear differential oil $(4X4)^{*7}$					Rep	lace e	every	250,	000 1	km o	r 10 <u>-</u>	years				
Transfer (4X4)	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
Transfer oil (4X4) <sup>*7</sup>					Repl	lace e	every	250,	000 1	km o	r 10 <u>-</u>	years				
Front and rear suspension and ball joints		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Wheel bearing lateral play (front) and axial play (rear)		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Driveshaft dust boots (for 4X4)		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Exhaust system and heat shields		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Bolts and nuts on chassis and body	/	Т		Т		Т		Т		Т		Т		Т		Т

		Nı	ımbe	r of	mon	ths o	r kilo	omet	res, v	whicl	hever	r con	nes fi	rst			
Maintenance Interval	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
inter vur	×1000 km	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
Body condition (for rust, corrosion and	d perforation)		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Hinges and catches	Hinges and catches				L				L				L				L
Seat belts, buckles and	d stalks		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
	Cabin air filter (if installed)		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι
Tyre rotation <sup>*8*9</sup>		Rotate every 10,000 km															
Tyres (including spare tyre) (with inflation pressure adjust- ment) <sup>*9</sup>		Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι

#### Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.

- R: Replace
- C: Clean
- D: Drain
- T: Tighten
- L: Lubricate

#### Remarks:

- \*1 If the vehicle is operated primarily under any of the following conditions, replace the engine oil and oil filter more often than the recommended intervals.
  - a) Short trips of less than 16 km when outside temperatures remain below freezing
  - b) Extensive idling, such as police, taxi or door-to-door delivery use
  - c) Operating off-road such as unpaved or dust covered roads
  - d) Towing a trailer, using a camper (caravan), roof-top carrier or carrying maximum loads (e.g. heavy duty commercial use)
- \*2 For 2.2 L/3.2 L diesel engines, replace the engine oil and oil filter as indicated below:

A. Countries whose diesel fuel contents extremely high sulphur equal or greater than 5000 ppm: Every 5,000 km or 3 months

B. Countries whose diesel fuel contents sulphur less than 5000 ppm: Every 10,000 km or 6 months For engine oil, either ACEA E5-99 or API CH-4 or later should be used for applying the said intervals. If not, apply half of the interval.

- \*3 Also inspect and adjust the power steering and air conditioner drive belts, if installed. If the vehicle is operated primarily under any of the following conditions, inspect the drive belts more often than the recommended intervals.
  - a) Short trips of less than 16 km when outside temperatures remain below freezing
  - b) Extensive idling, such as police, taxi or door-to-door delivery use
  - c) Operating off-road such as unpaved or dust covered roads
  - d) Towing a trailer, using a camper (caravan), roof-top carrier or carrying maximum loads (e.g. heavy duty commercial use)
- \*4 If the vehicle is operated in very dusty or sandy areas, clean the air filter at every 5,000 km or 3 months.
- \*5 If the brakes are used extensively (for example, continuous hard driving or mountain driving) or if the vehicle is operated in extremely humid climates, replace the brake fluid annually.
- \*6 If the vehicle is operated primarily under any of the following conditions, inspect the these items more often than the recommended intervals.
  - a) Driving on bumpy roads, gravel roads, snowy roads or dirt roads
  - b) Driving uphill and downhill frequently
  - c) Repeated short-distance driving

- \*7 If this component(s) has been submerged in water, the fluid/oil should be replaced.
- \*8 If the vehicle is operated primarily under any of the following conditions, rotate the tyres more often than the recommended intervals.
  - a) Driving on bumpy roads, gravel roads, snowy roads or dirt roads
  - b) Driving uphill and downhill frequently
  - c) Repeated short-distance driving
  - d) On roads having many roundabouts
- \*9 The Tyre Pressure Monitoring System (TPMS) initialization must be performed so that the system operates normally (if equipped).

# CLEANING THE EXTERIOR

# A WARNING

If you use a car wash with a waxing cycle, make sure that you remove the wax from the windscreen.

## **CAUTION**

- Prior to using a car wash facility check the suitability of it for your vehicle.
- Some car wash installations use water at high pressure. This could damage certain parts of your vehicle.
- Remove the aerial before using an automatic car wash.
- Switch the heater blower off to prevent contamination of the fresh air filter.

We recommend that you wash your vehicle with a sponge and lukewarm water containing a car shampoo.

### ▼Cleaning the headlamps

# **CAUTION**

- Do not scrape the headlamp lenses or use abrasives, alcoholic solvents or chemical solvents to clean them.
- Do not wipe the headlamps when they are dry.

#### ▼Cleaning the rear window

# **CAUTION**

Do not scrape the inside of the rear window or use abrasives or chemical solvents to clean it.

Use a clean, lint free cloth or a damp chamois leather to clean the inside of the rear window.

### ▼Cleaning the chrome trim

# **CAUTION**

Do not use abrasives or chemical solvents. Use soapy water.

### ▼Body paintwork preservation

# **CAUTION**

- Do not polish your vehicle in strong sunshine.
- Do not allow polish to touch plastic surfaces. It could be difficult to remove.
- Do not apply polish to the windscreen or rear window. This could cause the wipers to become noisy and they may not clear the window properly.

We recommend that you wax the paintwork once or twice a year.

# CLEANING THE INTERIOR

#### ▼Seat belts

# A WARNING

- Do not use abrasives, or chemical solvents to clean them.
- Do not allow moisture to penetrate the seat belt retractor mechanism.

Clean the seat belts with interior cleaner or water applied with a soft sponge. Let the seat belts dry naturally, away from artificial heat.

# ▼Instrument cluster screens, LCD screens, radio screens

# *△ WARNING*

Do not use abrasives, alcoholic solvents or chemical solvents to clean them.

#### **Rear** windows

## **CAUTION**

- Do not use any abrasive materials to clean the interior of the rear windows.
- Do not install stickers or labels to the interior of the rear windows.

### REPAIRING MINOR PAINT DAMAGE

# **CAUTION**

Remove apparently harmless looking substances from the paintwork immediately (e.g. bird droppings, tree resins, insect remains, tar spots, road salt and industrial fall out).

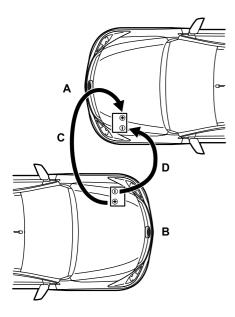
You should repair paintwork damage caused by stones from the road or minor scratches as soon as possible. A choice of products is available from your Authorised Mazda Repairer. Read and follow the manufacturer's instructions.

# JUMP-STARTING THE VEHICLE

# **CAUTION**

- Connect batteries with only the same nominal voltage.
- Always use booster leads with insulated clamps and adequate size lead.
- Do not disconnect the battery from the vehicle's electrical system.

▼ To connect the booster leads



А	Flat battery vehicle
В	Booster battery vehicle
С	Positive connection lead
D	Negative connection lead

- 1. Position the vehicles so that they do not touch one another.
- 2. Switch off the engine and any electrical equipment.
- 3. Connect the positive (+) terminal of vehicle **B** with the positive (+) terminal of vehicle **A** (cable **C**).
- Connect the negative (-) terminal of vehicle B to the ground connection of vehicle A (cable D). See Battery connection points (page 191).

# **CAUTION**

- Do not connect to the negative (-) terminal of the flat battery.
- Make sure that the leads are clear of any moving parts.

### ▼ To start the engine

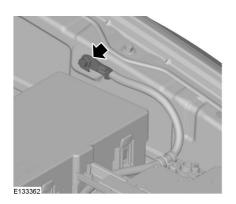
- 1. Run the engine of vehicle **B** at moderately high speed.
- 2. Start the engine of vehicle A.
- 3. Run both vehicles for a minimum of three minutes before disconnecting the leads.

# **CAUTION**

Do not switch on the headlamps when disconnecting the leads. The peak voltage could blow the bulbs.

Disconnect the leads in the reverse order.

### **BATTERY CONNECTION POINTS**



## **CAUTION**

Do not connect to the negative (-) terminal of the flat battery.

# BATTERY WARNING SYMBOLS

#### **▼**Battery labels

$\bigotimes$	No smoking, no naked flames, no sparks.
6	Shield the eyes.
	Keep away from children.
A	Corrosive.
	Note operating instructions.
	Explosive gas.

### INFORMATION FOR USERS ON COLLECTION AND DISPOSAL OF OLD EQUIPMENT AND USED BATTERIES

When disposing your old battery, please refer to the information as follows.

#### ▼Information on Disposal

If you wish to discard old products and used batteries, please contact your local authorities, your waste disposal service or the point of sales where you purchased the items, and ask for the correct method of disposal.

### **GENERAL INFORMATION**

# **CAUTION**

- Use only approved wheel and tyre sizes. Using other sizes could damage the vehicle and will make the National Type Approval invalid.
- If you change the diameter of the tyres from that fitted at the factory, the speedometer may not display the correct speed. Take the vehicle to your repairer to have the engine management system reprogrammed.
- If you intend to change the size of the wheels from that fitted at the factory, check the suitability with your repairer.
- Remember to replace the wheel valve stems when the road tyres are replaced on your vehicle.
- The two front tyres or two rear tyres should generally be replaced as a pair.
- The tyre pressure sensors mounted in the wheels are not designed to be used in aftermarket wheels.
- The use of wheels or tyres not recommended by Mazda Motor Company may affect the operation of your tyre pressure monitoring system.
- If the tyre pressure monitoring system indicator is flashing, the system is malfunctioning. Your replacement tyre might be incompatible with your tyre pressure monitoring system, or some component of the system may be damaged.

#### NOTE

Check your tyre pressures regularly to optimise fuel economy.

A decal with tyre pressure data is located in the driver's door opening at the B-pillar. Check and set the tyre pressure at the ambient temperature in which you are intending to drive the vehicle and when the tyres are cold.

# CHANGING A ROAD WHEEL

#### ▼Locking wheel nuts

You can obtain a replacement locking wheel nut key and replacement locking wheel nuts from your repairer using the reference number certificate.

### ▼ Vehicle jack

# A WARNING

- The vehicle jack supplied with your vehicle should only be used when changing a wheel in emergency situations.
- Before using the vehicle jack, check that it is not damaged or deformed and that the thread is lubricated and free from foreign matter.
- Never place anything between the jack and the ground, or the jack and the vehicle.

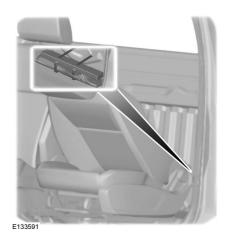
It is recommended to use a workshop type hydraulic jack for changing between summer and winter tyres.

#### NOTE

Use a jack with a minimum lifting capacity of one tonne (one ton) and a lifting plate with a minimum diameter of 80 millimetres (3.1 inches).

The jack, wheel brace, and jack handle are located in the cab.

#### Regular cab

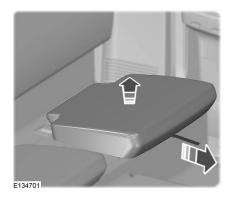




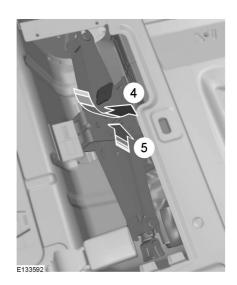
E135841

- 1. Fold the LH seatback forward.
- 2. Remove the locking strap and remove the tools.
- 3. Fold the RH seatback forward.
- 4. Loosen the jack, remove the bolt and remove the jack.

### Freestyle cab



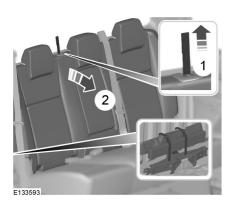




- 1. Pull the release strap.
- 2. Remove the rear seats.
- 3. Remove the cover and loosen the jack.
- 4. Remove the bolt.
- 5. Remove the jack.
- 6. Remove the tools.

### Wheels and Tyres

#### Double cab



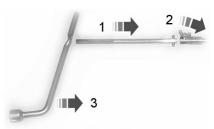
- 1. Lift the release strap.
- 2. Lower the seatback.
- 3. Remove the locking strap.
- 4. Loosen the jack and remove the bolt.
- 5. Remove the jack.

### ▼Spare wheel

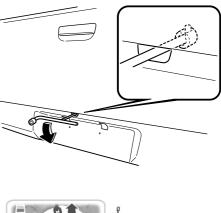
#### NOTE

Your vehicle may exhibit some unusual driving characteristics.

The spare wheel is located underneath the rear of the vehicle.



E79153





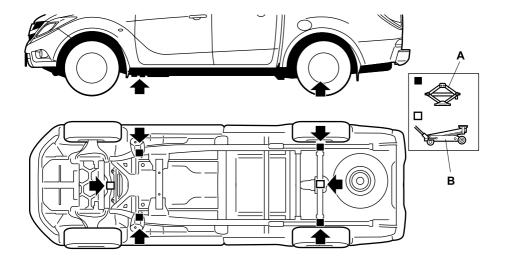
1. Assemble the handle.

- 2. Fully insert the jack handle into the guide hole. Turn anti-clockwise until the wheel rests on the ground, and there is slack in the lead.
- 3. Pass the bracket and lead through the wheel opening.

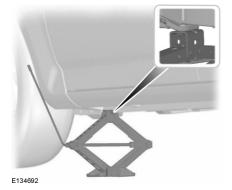
#### ▼Jacking and lifting points

# **CAUTION**

Use only the specified jacking points. If you use other positions, you may damage the body, steering, suspension, engine, braking system or the fuel lines.



А	Emergency use only
В	Maintenance



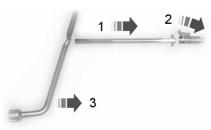
### **V**Removing a road wheel

# A WARNING

- Park your vehicle in such a position that neither the traffic nor you are hindered or endangered.
- Turn on the hazard warning flasher.
- Set up a warning triangle.
- Make sure that the vehicle is on firm, level ground with the wheels pointing straight ahead.
- Switch off the ignition and apply the parking brake.
- If your vehicle has a manual transmission, select first or reverse gear. If it has an automatic transmission, select park.
- Have the passengers leave the vehicle.
- Always secure the diagonally opposite wheel with an appropriate block or wheel chock when changing a wheel.
- Only use the vehicle jack to change a wheel. Never work underneath the vehicle when it is supported only by the jack.
- Make sure that the jack is vertical to the jacking point and the base is flat on the ground.

## **CAUTION**

Do not lay alloy wheels face down on the ground, this will damage the paint.

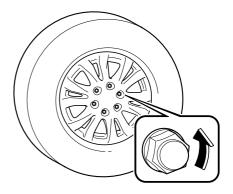


E79153

#### NOTE

Three handles need to be assembled when jacking the rear of the vehicle.

- 1. Assemble the jack handle.
- 2. Slacken the wheel nuts.
- 3. Jack up the vehicle until the tyre is clear of the ground.



4. Unscrew and remove the wheel nuts and take off the wheel.

#### ▼Installing a road wheel

# A WARNING

- Use only approved wheel and tyre sizes. Using other sizes could damage the vehicle and will void the warranty. See Technical Specifications (page 209).
- Do not fit run flat tyres on vehicles that were not originally fitted with them. Please contact your repairer for more details regarding compatibility.
- Make sure that there is no lubrication (grease or oil) on the threads or the interface between wheel studs and nuts.
- Have the tightening torque of the wheel nuts and the tyre pressure checked as soon as possible.

## **CAUTION**

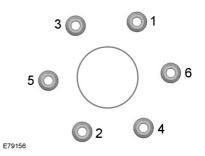
Do not install alloy wheels using wheel nuts designed for use with steel wheels.

#### NOTE

The wheel nuts of alloy wheels and spoked steel wheels can also be used for the steel spare wheel for a short time (maximum two weeks).

- 1. Install the wheel.
- 2. Install the wheel nuts finger tight.

3. Install the locking wheel nut key.



- 4. Partially tighten the wheel nuts in the sequence shown.
- 5. Lower the vehicle and remove the jack.
- Fully tighten the wheel nuts in the sequence shown. See Technical Specifications (page 209).
- 7. Make sure that the projection of the cap is positioned on the same position as the projection of the hub.

# A WARNING

Have the wheel nuts checked for tightness and the tyre pressure checked as soon as possible.

#### NOTE

If the spare wheel is different in size or construction to the road wheels, have this replaced as soon as possible.

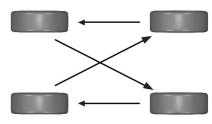
### ▼ Stowing the wheel

# **CAUTION**

Do not raise the spare wheel carrier without the wheel attached. Damage can occur to the winch mechanism if lowered without a wheel attached.

- 1. Place the wheel flat on the ground, so the outside of the wheel faces down. Tilt the bracket, and pass it and the lead through the centre opening in the wheel.
- 2. Fully insert the flat end of the wheel brace into the guide hole and turn clockwise.
- 3. Stow the wheel brace, jack, and jack handle away.

### **TYRE CARE**



E136542

To make sure the front and rear tyres of your vehicle wear evenly and last longer, we recommend that you swap the tyres as per the graphic at regular intervals of 10 000 km (6 000 miles).

# A WARNING

If the tyre label shows different tyre pressures for the front and rear tyres and the vehicle is equipped with a tyre pressure monitoring system, then the settings for the system sensors need to be updated. Always perform the system reset procedure after tyre rotation. If the system is not reset, it may not provide a low tyre pressure warning when necessary. See the tyre pressure monitoring system reset procedure in this chapter.

# **CAUTION**

Do not scrub the sidewalls of the tyres when you are parking.

If you have to mount a kerb, do so slowly and approach it with the wheels at rightangles to the kerb.

Examine the tyres regularly for cuts, foreign objects and uneven wear of the tread. Uneven wear could mean that the wheel alignment is outside specification.

#### Limited-Slip Axle

This axle provides added traction on slippery surfaces, particularly when one wheel is on a poor traction surface. Under normal conditions, the limited slip axle functions like a standard rear axle. The axle may exhibit a slight noise or vibration in tight turns with low vehicle speed. This is normal behaviour and indicates the axle is working.

### **USING WINTER TYRES**

## **CAUTION**

Make sure that you use the correct wheel nuts for the type of wheel the winter tyres are fitted to.

If winter tyres are used, make sure that the tyre pressures are correct. See **Technical Specifications** (page 209).

### USING SNOW CHAINS

# A WARNING

- Do not exceed 50 km/h (30 mph).
  Do not use snow chains on snow-
- Do not use snow chains on snowfree roads.

## **CAUTION**

If your vehicle is fitted with wheel trims, remove them before fitting snow chains.

#### NOTE

- The ABS will continue to operate normally.
- Tighten the snow chains after 1 km (0.5 miles).

Only use small link snow chains.

Only use snow chains on the rear wheels. On 4-wheel drive vehicles, inflate the rear tyres to the maximum pressure permissible. See **Technical Specifications** (page 209).

### TYRE PRESSURE MONITORING SYSTEM\*

# A WARNING

• The tyre pressure monitoring system is not a substitute for manually checking tyre pressures. You should periodically check tyre pressures using a pressure gauge. Failure to correctly maintain tyre pressures could increase the risk of tyre failure, loss of control, vehicle rollover and personal injury.

# (!)

You must check the tyre pressures (including the spare tyre where applicable) every two weeks when the tyres are cold.

You must inflate the tyres to the correct pressure. Refer to Wheels and Tyres on page 193. The tyre pressures are also on the tyre inflation pressure label (located on the edge of driver door or the B-Pillar). As a driver assistance feature, your vehicle has a tyre pressure monitoring system. A warning lamp will illuminate when one or more of the tyres are significantly under-inflated. If the low tyre pressure warning lamp illuminates, you should stop your vehicle as soon as it is safe to do so, check the tyres and inflate them to the correct pressure. Driving on under-inflated tyres can:

- Cause them to overheat.
- Lead to tyre failure.
- Reduce fuel efficiency.
- Reduce tyre life.
- Affect vehicle handling or stopping ability.

The system is not a substitute for correct tyre maintenance.

You must maintain the correct tyre pressures, even if low tyre pressure has not illuminated the warning lamp.

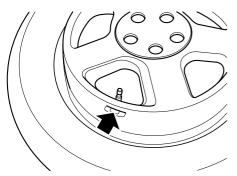
The tyre pressure monitoring system has a system malfunction indicator to warn you when the system is not operating correctly. The malfunction indicator and low tyre pressure warning lamp have a combined function. When the system detects a malfunction, the warning lamp will flash for approximately one minute and then remain illuminated. This sequence will occur every time you switch the ignition on while the malfunction remains. The system has detected a fault that requires service. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tyre pressures. A malfunction may occur for a variety of reasons, including the installation of a replacement tyre or wheel that prevents the system from functioning correctly. Always check the tyre pressure monitoring system malfunction warning after replacing one or more tyres or wheels on your vehicle. Make sure the replacement tyres or wheels allow the system to continue to function correctly. See **When the Temporary Spare Tyre is Installed** in this section.

#### ▼ How Temperature Affects the Tyre Pressures

Under normal driving conditions tyre pressures may increase by up to 0.3 bar (0.4 psi) from a cold start situation.

If the vehicle is stationary overnight and the temperature is significantly lower than the daytime temperature, tyre pressures may decrease by up to 0.2 bar (0.3 psi) when there is a drop in the ambient temperature of 17 °C (63 °F) or more. The system detects this pressure decrease as being significantly below the correct inflation pressure and the warning lamp illuminates.

#### ▼ Changing Tyres With a Tyre Pressure Monitoring System



You should always have tyres serviced by an expert repairer, we recommend an Authorised Mazda Repairer.

#### NOTE

Each road wheel and tyre is fitted with a tyre pressure sensor located inside the wheel and tyre assembly cavity. The pressure sensor attaches to the valve stem. The tyre covers the pressure sensor and it is not visible unless the tyre is removed. Take care when changing the tyre to avoid damaging the sensor.

#### ▼ Understanding the Tyre Pressure Monitoring System

You must maintain the correct tyre pressures, even if low tyre pressure has not illuminated the warning lamp.

The system measures the pressure in the road tyres and displays a warning lamp in the instrument cluster when a low pressure is detected. Refer to WARNING LAMPS AND INDICATORS on page 74. The system detects this lower pressure as being significantly below the correct inflation pressure and the warning lamp illuminates.

#### When the Temporary Spare Tyre is Installed

If you need to replace a road wheel and tyre with the temporary spare wheel, the system will continue to identify a defect. This is to remind you to repair the damaged road wheel and tyre and refit the repaired road wheel and tyre assembly to your vehicle. To restore the correct operation of the system, you must have the repaired road wheel and tyre assembly refitted to your vehicle.

#### When You Believe the System is Not Operating Correctly

The main function of the system is to warn you when the tyre pressures are low. It can also warn you in the event the system is no longer capable of operating correctly. See the following chart for information concerning the system:

#### When Inflating the Tyres

When inflating the tyres the system may not respond immediately to the air added to the tyres.

#### System Warning Lamps

Warning lamp	Description	Action
Solid warning lamp	Tyre(s) under-inflated	<ol> <li>Make sure tyres are at the correct pressure. See Wheels and Tyres (page 193). The tyre pressures are also on the tyre inflation pressure label (located on the edge of driver door or the B-Pillar).</li> </ol>
		<ol> <li>After inflating the tyres to the correct pressure you must carry out the tyre pressure monitoring system reset procedure. See Tyre Pressure Monitoring System Reset Procedure in this chapter.</li> </ol>
	Spare tyre in use	Repair the damaged road wheel and tyre and refit the repaired road wheel and tyre assembly to your vehicle to restore the correct operation of the system.
	Tyre pressure monitoring system malfunction	If the tyres are correctly inflated and the spare tyre is not in use but the light remains on, the system has detected a fault that requires service.
followed by a	Spare tyre in use	Repair the damaged road wheel and tyre and refit the repaired road wheel and tyre assembly to your vehicle to restore the correct operation of the system.
	Tyre pressure monitoring system malfunction	If the tyres are correctly inflated and the spare tyre is not in use but the light remains on, the system has detected a fault that requires service.

#### If the Warning Lamp is On

- 1. Check each tyre to verify that none are flat.
- 2. If one or more tyres are flat, repair as necessary.
- 3. Check the tyre pressures and inflate all the tyres to the correct pressure.
- 4. Carry out the tyre pressure monitoring system reset procedure.

#### ▼ Tyre Pressure Monitoring System Reset Procedure

#### **Overview**

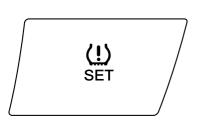
You must carry out the system reset procedure after each tyre replacement or adjustment of the tyre pressures. To maintain your vehicle load carrying capability, your vehicle requires different tyre pressures in the front tyres compared to the rear tyres.

The system illuminates the warning lamp at different pressures for the front and rear tyres.

The tyres need to be periodically rotated to provide consistent performance and maximum tyre life, the system needs to know when the tyres have been rotated to determine which set of tyres are on the front and rear axles. With this information, the system can detect and correctly warn of low tyre pressures.

#### <u>Carrying Out the System Reset</u> <u>Procedure</u>

1. Check the tyre pressures and inflate all the tyres to the correct pressure.



2. Press and hold the tyre pressure monitor reset switch for 3 seconds. The warning indicator blinks 3 times to acknowledge the reset procedure was successful.

If a flat tyre is still present after you perform the tyre pressure monitor reset procedure, the warning indicator remains illuminated in the instrument cluster. Make sure all of your tyres are inflated to the correct pressure before performing the reset procedure.

#### **Type Approvals**

For details on Tyre Pressure Monitoring Sensor Radio Frequency Compliance, refer to TYPE APPROVALS (page 304).

# **TECHNICAL SPECIFICATIONS**

#### Wheel nut torque

Wheel type	Nm (lb-ft)
All	103 (76.5)

### ▼ Tyre pressures (cold tyres)

	Norm	al load	Econ	iomy	Full	load
Tyre size	Front	Rear	Front	Rear	Front	Rear
	bar (psi)					
215/70 R16C 108/106 <sup>*</sup>	2.4 (35)	2.4 (35)	2.6 (38)	2.6 (38)	2.4 (35)	3.75 (54)
255/70 R16 111T*	2.4 (35)	2.4 (35)	2.6 (38)	2.6 (38)	2.4 (35)	2.7 (39)
265/65 R17 112T*	2.4 (35)	2.4 (35)	2.6 (38)	2.6 (38)	2.4 (35)	2.7 (39)

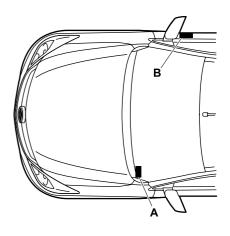
\*Only fit snow chains to specified tyres.

### VEHICLE IDENTIFICATION PLATE

The vehicle identification number and maximum weights are shown on a plate located on the bottom of the passenger door aperture.

### VEHICLE IDENTIFICATION NUMBER

Depending on the build location of your vehicle, the stamped vehicle identification number can be found in the following locations.

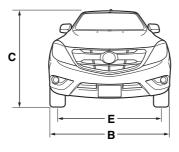


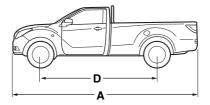
А	Left-hand side of the instrument panel.
	Right-hand side beneath the front door on the chassis.

# **TECHNICAL SPECIFICATIONS**

### ▼ Vehicle dimensions

#### **Regular cab**

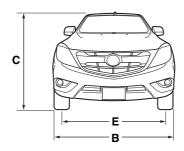


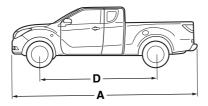


Item	Dimension Description	Dimension in mm (inches)
А	Maximum length - excluding rear bumper (Without box)	5124 (201.7)
А	Maximum length - excluding rear bumper (With box)	5277 (207.8)
А	Maximum length - With underran protection (Without box)	5227 (205.8)
А	Maximum length - With underran protection (With box)	5277 (207.8)
А	Maximum length - including rear bumper	5365 (211.2)
В	Overall width - excluding exterior mirrors	1850 (72.8)
С	Overall height (4x2)	1703 (67.0)
С	Overall height $(4x2^* \text{ or } 4x4)$	1800 - 1806 (70.9 - 71.1)
D	Wheelbase	3220 (126.8)
Е	Track - front and rear (4x2)	1590 (62.6)
Е	Track - front and rear (4x4)	1560 (61.4)

\*Vehicles with increased ride height

### 4-door freestyle cab

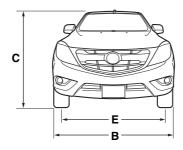


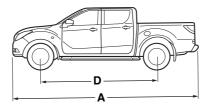


Item	Dimension Description	Dimension in mm (inches)
Α	Maximum length - excluding rear bumper (Without box)	5124 (201.7)
Α	Maximum length - excluding rear bumper (With box)	5277 (207.8)
А	Maximum length - With underran protection (Without box)	5227 (205.8)
А	Maximum length - With underran protection (With box)	5277 (207.8)
А	Maximum length - including rear bumper	5365 (211.2)
В	Overall width - excluding exterior mirrors	1850 (72.8)
С	Overall height (4x2)	1706 (67.2)
С	Overall height (4x4)	1804 - 1810 (71.0 - 71.2) <sup>1</sup>
D	Wheelbase	3220 (126.8)
Е	Track - front and rear (4x2)	1590 (62.6)
Е	Track - front and rear (4x4)	1560 (61.4)

<sup>1</sup>Depending on tyre size

### Double cab



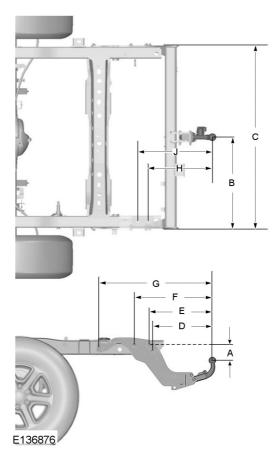


Item	Dimension Description	Dimension in mm (inches)
А	Maximum length - excluding rear bumper (Without box)	5124 (201.7)
А	Maximum length - excluding rear bumper (With box)	5277 (207.8)
А	Maximum length - With underran protection (Without box)	5227 (205.8)
А	Maximum length - With underran protection (With box)	5277 (207.8)
А	Maximum length - including rear bumper	5365 (211.2)
В	Overall width - excluding exterior mirrors	1850 (72.8)
С	Overall height (4x2)	1716 (67.5)
С	Overall height $(4x2^* \text{ or } 4x4)$	1815-1821 (71.4 - 71.7) <sup>1</sup>
D	Wheelbase	3220 (126.8)
Е	Track - front and rear (4x2)	1590 (62.6)
Е	Track - front and rear (4x4)	1560 (61.4)

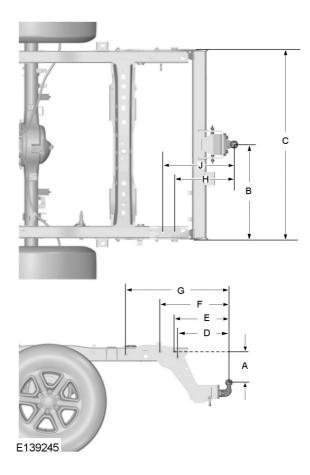
<sup>1</sup>Depending on tyre size \*Vehicles with increased ride height

▼ Towing equipment dimensions

4x2



### 4x2 (vehicles with increased ride height) and 4x4



Item	Dimension Description	Dimension in mm (inches)
Α	Attachment point - centre of tow ball (4x2)	$124 \pm 5 \; (4.8 \pm 0.2)$
Α	Attachment point - centre of tow ball $(4x2^* \text{ or } 4x4)$	$221.5 \pm 5 \ (8.7 \pm 0.2)$

Item	Dimension Description	Dimension in mm (inches)
В	Centre of tow ball - side member	588 (23.1)
С	Outside of side member	1176 (46.3)
D	Centre of tow ball - centre of 1st attachment point (4x2)	$419 \pm 5 (16.5 \pm 0.2)$
D	Centre of tow ball - centre of 1st attachment point $(4x2^* \text{ or } 4x4)$	$363 \pm 5 \; (14.3 \pm 0.2)$
Е	Centre of tow ball - centre of 2nd attachment point (4x2)	$442 \pm 5 (17.4 \pm 0.2)$
Е	Centre of tow ball - centre of 2nd attachment point $(4x2^* \text{ or } 4x4)$	386 ± 5 (15.2 ± 0.2)
F	Centre of tow ball - centre of 3rd attachment point (4x2)	$542 \pm 5 \ (21.3 \pm 0.2)$
F	Centre of tow ball - centre of 3rd attachment point $(4x2^* \text{ or } 4x4)$ $486 \pm 5 (19.1 \pm 0.2)$	
G	Centre of tow ball - centre of 4th attachment point (4x2) $785 \pm 5 (30.9 \pm 0.2)$	
G	Centre of tow ball - centre of 4th attachment point $(4x2^* \text{ or } 4x4)$	$728 \pm 5 \ (28.7 \pm 0.2)$
Н	Centre of tow ball - centre of 5th attachment point (4x2)	$429 \pm 5~(16.8 \pm 0.2)$
Н	Centre of tow ball - centre of 5th attachment point $(4x2^* \text{ or } 4x4)$	373 ± 5 (14.7 ± 0.2)
J	Centre of tow ball - centre of 6th attachment point (4x2)	$504 \pm 5 \ (19.8 \pm 0.2)$
J	Centre of tow ball - centre of 6th attachment point $(4x2^* \text{ or } 4x4)$	$448 \pm 5~(17.6 \pm 0.2)$

\*Vehicles with increased ride height

### ▼Arab Gulf Cooperation Council

Item	Specification			
Item	MZI 2.5	MZ-CD 2.2	MZ-CD 3.2 I5	
Maximum engine power/revolution	122 kW/5,500 rpm	110 kW/3,700 rpm	147 kW/3,000 rpm	
Maximum engine torque/revolution	225 N·m/4,500 rpm	375 N·m/1,500—2,500 rpm	470 N·m/1,750—2,500 rpm	
Maximum speed	175 km/h (109 mph)			

### GENERAL INFORMATION\*

Press the relevant button on the unit bezel to access the system functions. This will take you into the selected mode.

### ▼One hour mode

To conserve battery power, the system can be operated in one hour mode. If the ignition is off, press the ON/OFF button to switch the system on. The system will automatically switch off after one hour.

### ▼System notes

# A WARNING

- The indicated maximum speed may not be applicable to your vehicle. It is always your responsibility to control the vehicle, supervise any system and obey the correct speed limit.
- The front glass on the liquid crystal display may break if hit with a hard object. If the glass breaks, do not touch the liquid crystalline material. In case of contact with the skin, wash immediately with soap and water.
- The unit is a high grade laser product which uses an invisible laser beam. If this is handled incorrectly it can emit dangerous rays. Do not attempt to look through any openings in the unit.

# **CAUTION**

- Irregular shaped CDs and CDs with a scratch protection film or self adhesive labels attached should not be used. Warranty claims, where this type of disc is found to be inside an audio unit returned for repair, will not be accepted.
- Do not clean the unit with solvents or aerosol cleaning agents. Use only a damp cloth.
- Do not insert foreign objects into any of the unit disc drives or media card slots.
- Do not insert more than one disc into the unit disc drive.
- Use only 12 cm (4.7 inches) discs or 8 cm (3.1 inches) discs with a suitable adaptor.
- Do not attempt to open the unit. If the unit malfunctions consult your repairer.
- Improper use of settings and connections, other than those explained in this handbook, can damage the unit.
- Do not turn the ignition key or attempt to start the engine while the software is updating.

The system is recommended for use when the ignition key is turned to the accessory position or when the engine is running. If the system is used extensively when the engine is not running, care needs to be taken to avoid draining the battery.

### **ROAD SAFETY\***

# A WARNING

- The system provides you with information designed to help you reach your destination quickly and safely.
- For reasons of safety, the driver should only programme the system when the vehicle is stationary.
- The system provides no assistance with respect to stop signs, traffic lights, areas under construction or other important safety information.
- Do not use the system until you have familiarised yourself with its operation.
- Only view the system display when driving conditions permit.

### ▼ Safety information

Read and follow all stated safety precautions. Failure to do so may increase your risk of collision and personal injury. Mazda Motor Corporation shall not be liable for any damages of any type arising from failure to follow these guidelines. If detailed viewing of route instructions is necessary, pull off the road when it is safe to do so and park your vehicle.

Do not use the navigation system to locate emergency services.

To use the system as effectively and safely as possible, always use the latest navigation information. Your repairer will be able to assist with this.

#### ▼ Vehicles with SD navigation system

The system has a large range of features, yet is easy and intuitive to use. Route guidance is shown on the display screen. The screen provides full information for operating the system through the use of menus, text screens and map displays. Screen selections are made by scrolling through the menus using the up, down, left and right arrow buttons and pressing the **OK** button to activate the desired setting.

#### **Basic operation**

- 1. Press either the NAV or MENU button to enter the menu structure.
- 2. Use the up, down, left and right arrow buttons and scroll through the various selection lists.
- 3. Press the **OK** button to activate your selection.

#### Selection lists

Various screens are presented which offer a selection list of available options.

- 1. Select the option you require, or if it is not shown on the screen use the up and down arrow buttons to view the remainder of the selection list.
- 2. Press the **OK** button to confirm your selection.

#### Alphanumeric keypad entry

When it is necessary to enter an address, a keypad will appear prompting you to enter a postcode, city, or street.

1. Use the up, down, left and right arrow buttons to select the letter or number that you require.

#### NOTE

- As you spell the entry the results will appear in the display.
- The system will limit your entries to only those characters which spell a valid entry.
- 2. Press the **OK** button to activate your selection.

#### **Route setting example**

Navigation main screen

• To select the navigation system, press the NAV button. The road safety caution will be displayed. To use the system, read the caution and press the OK button.

Destination input screen

- Use the up and down arrow buttons and scroll to **Destination input**.
- Press the OK button to activate your selection.

#### NOTE

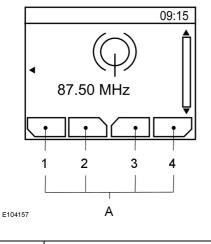
A list with several options is shown.

- Starting from the top, select the country followed by either the postcode if available or city and street name.
- Use the alphanumeric keypad and selection lists to select your address details.
- Once sufficient information has been entered, scroll to **Start guidance** and press the **OK** button to activate your selection.

### NOTE

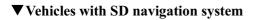
If you only need to navigate to a city centre for example, full address details are not required.

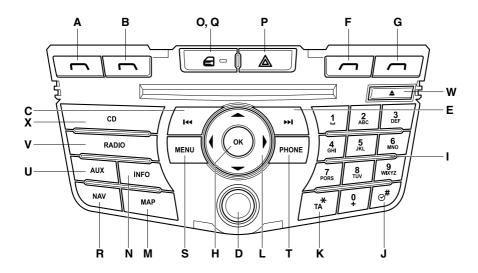
- The route is now calculated and the screen returns to the main navigation screen with instructions on how to proceed.
- Follow the screen information and voice prompts to reach your destination.



A Descriptions for function buttons 1-4

Function buttons 1 to 4 are context dependent, and change according to the current unit mode. Descriptions for the functions are shown at the bottom of the screen display.





А	Function 1.
В	Function 2.
С	Seek down. CD track selection. See <b>Station tuning control</b> (page 246). See <b>Track selection</b> (page 253).
D	On/off and volume control.
Е	Seek up. CD track selection. See <b>Station tuning control</b> (page 246). See <b>Track selection</b> (page 253).
F	Function 3.
G	Function 4.
Н	OK.
Ι	Telephone keypad, navigation destination entry and station presets. See <b>Using the telephone</b> (page 266). See <b>Station preset buttons</b> (page 247).
J	Clock.
K	Traffic announcement. See Traffic information control (page 248).
L	Navigation arrows.
М	Map.

N	Information.
0	Door lock indicator.
Р	Hazard warning flasher switch. See Hazard Warning Flashers (page 59).
Q	Door lock button. See Locking and Unlocking (page 38).
R	Navigation.
S	Menu select.
Т	Phone menu. See Telephone (page 263).
U	Auxiliary, USB and iPod select. See <b>Auxiliary input (AUX IN) socket</b> (page 111). See <b>Auxiliary input (AUX IN) socket</b> (page 260). See <b>Connectivity</b> (page 284).
V	Radio and waveband select. See Audio unit operation (page 245).
W	CD eject. See Compact disc player (page 253).
Х	CD select. See Compact disc player (page 253).

### LOADING THE NAVIGATION DATA\*

### ▼Loading the navigation data



- 1. Load the navigation SD card into the aperture.
- 2. Press the NAV button. The road safety warning will be shown in the display.
- 3. Use the up and down arrow buttons to select the required feature.
- 4. Press the OK button to confirm your selection.

For map updates and system upgrades please refer to your repairer.

Most of the important settings for your navigation unit can be accessed via the **MENU** or **NAV** button. The following section describes the various options and how to use them.

For menu structures: See Information **Displays** (page 83).

#### Menu structure - Information and entertainment display -Vehicles with navigation system

#### Route

This feature allows you to customise the route to your specific journey requirements (for example continue route guidance, block specific sections of your route or select specific sections of a route).

#### **Destination input**

This feature allows you to enter your destination details (for example enter city names, enter street names or pick a place from a map).

#### Traffic

This feature allows you to customise how you receive traffic information (for example review and sort traffic messages, review your route or block parts of your route).

#### Home address

This feature allows you to start the route guidance to your home address or change the details of your home address.

#### Last destinations

This feature allows quick access to a history of previous destinations entered in the system. A detailed display will show the complete stored information including an overview map. Select the required repeat destination from the list.

#### Favourites

This feature allows you to customize a personal destination address book and assign user defined names to addresses and locations. A detailed display will show the complete stored information including an overview map. Select the required repeat destination from the list.

#### **Points of interest**

This feature allows you to customise the route to your specific journey requirements (for example select a museum on route or a specific point of interest near your destination).

#### Tour planning

This feature allows you to enter a number of different destinations and select the order in which you wish to visit them. You can also modify an existing tour or recall a previous tour. The system will automatically calculate and display your chosen journey.

#### Store position

This feature allows you to store and name your current position.

#### **Route options**

This feature allows you to customise the route to your specific journey requirements (for example select the fastest or most economical route or select a route that will avoid tunnels, seasonal roads and toll roads).

#### **Special functions**

This feature allows you to select GPS and system information or a demonstration of the system functionality.

#### Map display

This feature allows you to change the way the map screen is displayed (for example clean 2D and clean 3D view) and to customise display information for your journey (for example time to arrival and lane guidance).

#### Assistance options

This feature allows you to customise display information for your journey (for example signs, lanes and speed limits).

#### Personal data

This feature allows you to edit and delete personal data (for example your home address).

#### **Reset all settings**

This feature allows you to reset the navigation settings.

#### Menu structure - Information and entertainment display - All vehicles

### ▼Audio settings

#### Adaptive volume

This feature allows you to adjust the volume level to compensate for engine and road speed noise. You can turn this on and off. See **Automatic volume control** (page 250).

#### Sound

This feature allows you to adjust the sound settings (for example bass and treble.

#### Nav audio mixing

This feature allows you to adjust the volume mix between the navigation voice output and audio source.

#### **DSP** settings

This feature allows you to customise speaker output relevant to seat positions. See **Digital signal processing (DSP)** (page 250).

#### **DSP** equaliser

This feature allows you to select the music category that most suits your listening preference. The audio output will change to enhance the particular style of music chosen. See **Digital signal processing (DSP)** (page 250).

#### News

This feature allows you to receive news bulletins from stations on the FM waveband or radio data system (RDS) and enhanced other network (EON) linked stations, in the same way as traffic information is provided. You can turn this on and off. See **News broadcasts** (page 251).

#### Alternative frequencies

This feature will search for and switch to the strongest station signal when moving from one transmission area to another. See **Alternative frequencies** (page 251).

#### **RDS** regional

This feature controls the behaviour of AF switching between regionally related networks of a parent broadcaster. See **Regional mode (REG)** (page 252).

#### Bluetooth®

This feature allows you to switch Bluetooth® on or off.

### ▼Clock settings

#### Set time

This feature allows you to manually adjust the time.

#### Set date

This feature allows you to manually adjust the date, month and year.

#### GPS time

This feature allows you to, if in a suitable coverage area, automatically adjust the date and time using GPS.

#### Set time zone

This feature allows you select a specific time zone.

#### Summertime

This feature allows you set the system to adjust for seasonal time differences.

#### NOTE

GPS time must be selected.

#### 24-hour mode

This feature allows you to adjust the system between 12 and 24-hour mode.

### **ROUTE OPTIONS MENU\***

You can set a number of options which alter the way a route is planned. Using the up, down, left and right arrow buttons, you can select from the list which road features are to be avoided or included in the route by turning the feature on or off.

### **▼**Route

#### Eco

This option will prioritise the most economical route to the destination.

#### Fast

This option will prioritise the fastest route to the destination.

#### Short

This option will prioritise the shortest route to the destination..

#### Always ask

Use this feature to make sure that you are always given the choice of route type selection for your journey.

### ▼ Driver

#### Leisurely

This option will prioritise the route for a leisurely driver to the destination.

#### Normal

This option will prioritise the route for a normal driver to the destination.

#### Fast

This option will prioritise the route for a fast driver to the destination.

### ▼Eco settings

#### Trailer

Use this feature to change the economy settings of your journey relating to whether or not you are towing a trailer and if so the size of trailer being towed.

#### Roof box

Use this feature to change the economy settings of your journey relating to the use of a roof box.

### **▼**Dynamic

When switched on, and if the unit is receiving a valid traffic message channel (TMC) signal, the route will be automatically updated to take into account real time traffic incidents or congestion.

#### NOTE

This feature can be useful in avoiding delays or hold ups on journeys.

### ▼ Motorway

When switched on the system will look for motorways on your route and automatically update your route distance and timings.

#### NOTE

This feature can be useful in avoiding delays or hold ups on journeys.

### ▼ Ferry/motorail

When switched on the system will look for ferry crossings and motorail facilities on your route and automatically update your route distance and timings.

### **▼** Toll

When switched on the system will look for toll roads on your route and automatically update your route distance and timings.

### ▼Seasonal roads

When switched on the system will look for seasonal roads on your route and automatically update your route distance and timings.

#### NOTE

This feature can be useful in avoiding delays or hold ups on journeys.

### ▼ Toll sticker

When switched on the system will automatically select toll roads and update your route distance and timings.

### **ROUTE DISPLAYS\***

### ▼ Map display

Press the **MAP** button for a map view. This view will show your current location with your vehicle in the centre shown as an arrow surrounded by a circle. The arrow will face in the direction of travel. The information on the top line gives the name of the current road, or the next road to take if a turn is approaching. You can change the way the map is displayed by altering the zoom and orientation settings. Press the relevant function buttons to change the map scale and using the left and right arrow buttons zoom in or out. The current map scale is shown on the display.

Map scale settings may be set between 50 metres to 500 kilometres or 0.05 miles to 500 miles, with an auto setting to the far left. The auto setting continuously changes the map scale according to the road type being driven.

### ▼Junction zoom

This feature will automatically increase the zoom on the map display at times when you are required to make a turn, or perform more complex manoeuvres. Shortly after the zoom scale will return to the previous level.

Select AUTO to activate junction zoom.

### ▼ Navigation display

After commencing a navigation route, the default screen is the main navigation screen:

Once an active route is underway, guidance will be given by on-screen information and voice prompts. Whichever audio source you wish to leave the unit in, basic turn by turn and distance information will remain on the screen in the form of a graphic inset. You do not need to leave the unit on the main navigation screen when you are navigating a route. Slightly more detailed information on your route may be available via the main navigation screen if required.

# A WARNING

Do not rely on the screen prompts when navigating. Always listen to the navigation voice and take care not be distracted from the road ahead.

# PRINCIPLE OF OPERATION\*

Traffic message channel (TMC) stations are broadcast on the FM waveband. TMC is a feature that receives traffic alerts which can be used to plan alternative routes and avoid hold ups.

### USING TMC\*

Press the **TA** or **TRAFFIC** button to show the traffic menu page.

#### ▼Traffic announcement

Traffic announcement (TA) can be turned on or off via this menu. If switched on a **TA** indicator is shown in the information border of the status bar. Stations which broadcast on the FM waveband and carry traffic programmeme (TP) information are identified by **TP** shown in the screen display. With TA switched on the unit will respond to these announcements and interrupt music playback. After the announcement has ended music playback will resume.

### ▼Ending traffic announcements

The unit will return to normal operation at the end of each traffic announcement. To end the announcement prematurely, press the **TA**, **TRAFFIC**, **RADIO** or **CD** button during the announcement.

#### ▼Using TMC messages

Select the required item to display a list of TMC messages. See **General Information** (page 83). This is only an overview display which gives very basic information. Select the message you require further information on and another screen will be displayed giving full message details on incident location etc. You may either select a view which shows messages only affecting your programmed route, or a view which shows all messages received. Press function button 1 to change the view. The road network is constantly changing due to new roads, changes in road classification, etc. Therefore, it is not always possible to exactly match the map data in the system to the current road network.

Map information is regularly updated, but all areas are not necessarily covered to the same level of detail. Some roads, in particular private roads, may not be included on the database. To help with accuracy, always use the latest version navigation disc. Your repairer will be able to provide this.

### **IMPORTANT AUDIO INFORMATION**

# A WARNING

- Due to technical incompatibility, recordable (CD-R) and rewritable (CD-RW) discs may not function correctly.
- These CD radio units will play compact discs that conform to the International Red Book standard audio specification. Copy protected CDs from some manufacturers do not conform to this standard and playback cannot be guaranteed.
- Dual format, dual sided discs (DVD Plus, CD-DVD format), adopted by the music industry, are thicker than normal CDs and consequently playback cannot be guaranteed, and jamming could occur. Irregular shaped CDs and CDs with a scratch protection film or self adhesive labels attached should not be used. Warranty claims, where this type of disc is found to be inside an audio unit returned for repair, will not be accepted.
- All CD units are designed to play commercially pressed 12 cm audio compact discs only.
- The audio unit may be damaged if unsuitable items like credit cards or coins are pushed inside the CD aperture.

#### ▼Audio unit labels

CLASS 1 LASER PRODUCT

CAUTION—INVISIBLE LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS ▼ Disc labels

Audio CD





۵	
DIGI	TAL AUDIO
Re	Writable

MP3

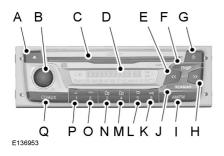


#### NOTE

Units have an integrated multi function display situated above the CD aperture. This shows important information regarding control of your audio unit. Additionally, there are various icons placed around the display screen which light up when a function is active (for example CD, Radio or Aux.)

Type of audio unit and relevant multifunction display: **Type 2:** Base display **Type 3:** Large display **Type 4:** 5 inch NAV colour display

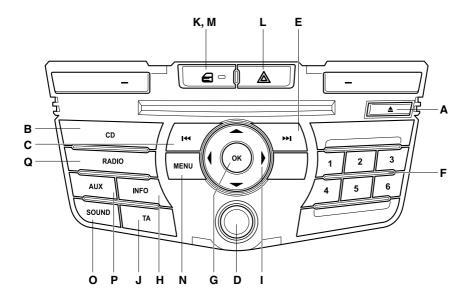
#### Type 1



А	CD eject. See <b>Compact disc player</b> (page 253).
В	Volume control.
С	CD Aperture.
D	LCD display.
Е	Seek up. CD track select/Fast-rewind. See <b>Station tuning control</b> (page 246). See <b>Track selection</b> (page 253).
F	Menu select.
G	On/off and mute.
Н	Seek down. CD track select/Fast-forward. See Station tuning control (page 246). See Track selection (page 253).
Ι	Radio and waveband select. See <b>Audio unit operation</b> (page 245).
J	Scan and auto store. Play all tracks on CD.
К	Station preset 6. Shuffle. See Station preset buttons (page 247).
L	Station preset 5. Repeat. See <b>Station preset buttons</b> (page 247).
М	Station preset 4. Next folder. See <b>Station preset buttons</b> (page 247).
Ν	Station preset 3. Previous folder. See <b>Station preset buttons</b> (page 247).
0	Station preset 2. Scroll display. See <b>Station preset buttons</b> (page 247).
Р	Station preset 1. Back. See Station preset buttons (page 247).
Q	Select CD/Auxiliary. See Compact disc player (page 253). See Auxiliary input (AUX IN) socket (page 111). See Auxiliary input (AUX IN) socket (page 260).

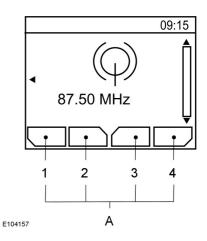
### Audio unit overview

Type 2

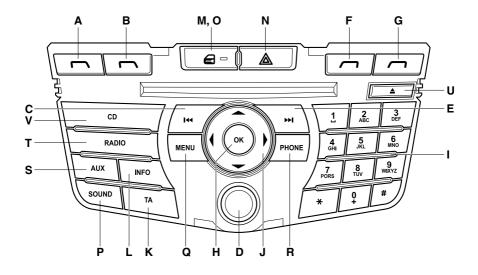


Α	CD eject. See <b>Compact disc player</b> (page 253).
В	CD select. See <b>Compact disc player</b> (page 253).
С	Seek down. CD track selection. See <b>Station tuning control</b> (page 246). See <b>Track selection</b> (page 253).
D	On/off and volume control.
E	Seek up. CD track selection. See <b>Station tuning control</b> (page 246). See <b>Track selection</b> (page 253).
F	Station presets. See Station preset buttons (page 247).
G	OK.
Н	Information.
Ι	Navigation arrows.
J	Traffic announcement. See <b>Traffic information control</b> (page 248).
K	Door lock indicator.
L	Hazard warning flasher switch. See Hazard Warning Flashers (page 59).
М	Door lock button. See Locking and Unlocking (page 38).
N	Menu select.
0	Sound button. See <b>Sound button</b> (page 245).
Р	Auxiliary select. See Auxiliary input (AUX IN) socket (page 111). See Auxiliary input (AUX IN) socket (page 260).
Q	Radio and waveband select. See <b>Audio unit operation</b> (page 245).

Type 3



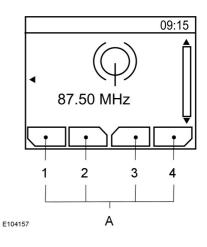
A Descriptions for function buttons 1-4



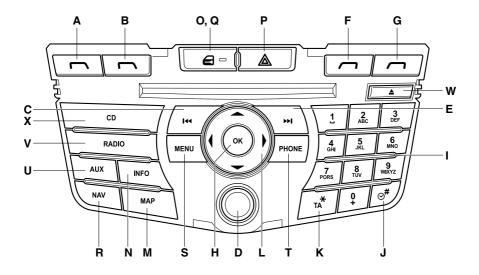
А	Function 1.
B	Function 2.
В	Seek down. CD track selection. See
С	Station tuning control (page 246). See Track selection (page 253).
D	On/off and volume control.
Е	Seek up. CD track selection. See Station tuning control (page 246). See Track selection (page 253).
F	Function 3.
G	Function 4.
Н	OK.
Ι	Telephone keypad and station presets. See <b>Using the telephone</b> (page 266). See <b>Station preset buttons</b> (page 247).
J	Navigation arrows.
K	Traffic announcement. See <b>Traffic information control</b> (page 248).
L	Information.
М	Door lock indicator.
N	Hazard warning flasher switch. See Hazard Warning Flashers (page 59).
0	Door lock button. See Locking and Unlocking (page 38).
Р	Sound button. See <b>Sound button</b> (page 245).
Q	Menu select.
R	Phone menu. See <b>Telephone</b> (page 263).
S	Auxiliary, USB and iPod select. See Auxiliary input (AUX IN) socket (page 111). See Auxiliary input (AUX IN) socket (page 260). See Connectivity (page 284).
Т	Radio and waveband select. See <b>Audio unit operation</b> (page 245).
U	CD eject. See <b>Compact disc player</b> (page 253).
V	CD select. See <b>Compact disc player</b> (page 253).

Function buttons 1 to 4 are context dependent, and change according to the current unit mode. Descriptions for the functions are shown at the bottom of the screen display.





A Descriptions for function buttons 1-4



А	Function 1.
В	Function 2.
С	Seek down. CD track selection. See <b>Station tuning control</b> (page 246). See <b>Track selection</b> (page 253).
D	On/off and volume control.
Е	Seek up. CD track selection. See Station tuning control (page 246). See Track selection (page 253).
F	Function 3.
G	Function 4.
Н	OK.
I	Telephone keypad, navigation destination entry and station presets. See Using the telephone (page 266). See Station preset buttons (page 247).
J	Clock.
K	Traffic announcement. See <b>Traffic information control</b> (page 248).
L	Navigation arrows.
М	Map.
N	Information.
0	Door lock indicator.
Р	Hazard warning flasher switch. See Hazard Warning Flashers (page 59).
Q	Door lock button. See Locking and Unlocking (page 38).
R	Navigation.
S	Menu select.
Т	Phone menu. See <b>Telephone</b> (page 263).
U	Auxiliary, USB and iPod select. See Auxiliary input (AUX IN) socket (page 111). See Connectivity (page 284).
V	Radio and waveband select. See <b>Audio unit operation</b> (page 245).
W	CD eject. See <b>Compact disc player</b> (page 253).
Х	CD select. See <b>Compact disc player</b> (page 253).

Function buttons 1 to 4 are context dependent, and change according to the current unit mode. Descriptions for the functions are shown at the bottom of the screen display.

### **SECURITY CODE**

Each unit incorporates a unique code that is linked to the vehicle identification number (VIN). The system will automatically check that the audio unit and vehicle match before allowing operation.

If a security code message appears, please see your repairer.

### SETTING THE CLOCK ON THE AUDIO UNIT

#### **V**Changing the time

The clock can be set at any time when the system is in the one hour mode or the ignition switch is in the ACC or ON position.

#### NOTE

**Type 2 and 3:** The time can be adjusted using the hour and minute buttons on the screen.

To advance the hours, press the HOUR SET button. To advance the minutes, press the MINUTE SET button while the time is flashing.

#### NOTE

- **Type 4:** The time can be adjusted using the clock button on the audio control panel. See **Audio unit overview** (page 235).
- The time can be adjusted using the navigation arrow buttons on the audio control panel.

#### Type 1

- Press the MENU button.
- Rotate the VOLUME CONTROL to select the date/time.
- Short press the MENU button to enter date/time.
- Rotate the VOLUME CONTROL to select the hour set and enter.

- Rotate the VOLUME CONTROL to adjust the hours.
- Press BACK button to return to previous menu.
- Rotate the VOLUME CONTROL to select minute set and enter.
- Rotate the VOLUME CONTROL to adjust minutes.
- Press MENU button to save the new settings.

Type 2 and 4

- Press the MENU button.
- Use the UP and DOWN arrow buttons to select the clock settings.
- Press OK or RIGHT arrow button to enter clock settings.
- Use UP and DOWN arrow button to select the set time.
- Use UP and DOWN arrow buttons to adjust hours.
- Use RIGHT and LEFT arrow buttons to scroll to the minutes.
- Use UP and DOWN arrow buttons to adjust minutes.
- Press OK button to save the new settings

Type 3

- Press the MENU button.
- Use the UP and DOWN arrow buttons to select the clock.
- Press OK or RIGHT arrow button to enter clock menu.
- Use UP and DOWN arrow button to select the set time.

- Use UP and DOWN arrow buttons to adjust hours.
- Use RIGHT and LEFT arrow buttons to scroll to the minutes.
- Use UP and DOWN arrow buttons to adjust minutes.
- Press OK button to save the new settings

### ▼Exact hour adjustment

You can set the time to the beginning of an hour using this feature.

- Press the CLOCK button for about two seconds until a beep is heard. The clock's current time will flash.
- Press the CLOCK button again and the time will be adjusted as follows:

Example

- current set time between 12:01 and 12:29 will change to 12:00 exactly.
- current set time between 12:30 and 12:59 will change to 1:00 exactly.

#### NOTE

If the power supply to the unit is interrupted (if the fuse blows or the vehicle's battery is disconnected), the clock will need to be reset.

# **ON/OFF CONTROL**

Press the on/off control. This will also operate the unit for up to one hour with the ignition turned off.

The radio will switch off automatically after one hour.

## **SOUND BUTTON**

This will allow you to adjust the sound settings (for example bass and treble).

- 1. Press the sound button.
- 2. Use the up and down arrow buttons to select the required setting.
- 3. Use the left and right arrow buttons to make the necessary adjustment. The display indicates the level selected.
- 4. Press the **OK** button to confirm the new settings.

# WAVEBAND BUTTON

Press the RADIO button to select from the wavebands available.

The selector can also be used to return to radio reception when you have been listening to another source.

Alternatively, press the left arrow button to display the available wavebands. Scroll to the required waveband and press OK.

# STATION TUNING CONTROL

## ▼Seek tuning

Select a waveband and briefly press one of the seek buttons. The unit will stop at the first station it finds in the direction you have chosen.

## ▼Manual tuning

## Type 1

- 1. Press the FM/AM button and then MANUAL TUNE.
- 2. Use the left and right arrow buttons to tune down or up the waveband in small increments or press and hold to increment quickly, until you find a station you want to listen to.

## Type 2

- 1. Press the MENU button.
- 2. Select RADIO mode and then MANUAL TUNE.
- 3. Use the left and right arrow buttons to tune down or up the waveband in small increments or press and hold to increment quickly, until you find a station you want to listen to.
- 4. Press OK to continue listening to a station.

## Type 3 and 4

- 1. Press function button 2.
- 2. Use the left and right arrow buttons to tune down or up the waveband in small increments or press and hold to increment quickly, until you find a station you want to listen to.

3. Press OK to continue listening to a station.

## ▼Scan tuning

Scan allows you to listen to a few seconds of each station detected.

## Type 1

- 1. Press the FM/AM button.
- 2. Short press the SCAN/AS button, the radio will automatically scan up the selected waveband.
- 3. Short press the SCAN/AS button again to continue listening to a station.

## Type 2

- 1. Press the MENU button.
- 2. Select RADIO mode and then SCAN.
- 3. Use the seek buttons to scan up or down the selected waveband.
- 4. Press OK to continue listening to a station.

## Type 3 and 4

- 1. Press function button 3.
- 2. Use the seek buttons to scan up or down the selected waveband.
- 3. Press function button 3 again or OK to continue listening to a station.

# STATION PRESET BUTTONS

This feature allows you to store your favourite stations so that they can be recalled by selecting the appropriate waveband and pressing one of the preset buttons.

- 1. Select a waveband.
- 2. Tune to the station required.
- 3. Press and hold one of the preset buttons. A progress bar and message will appear. When the progress bar completes the station has been stored. The audio unit will also mute momentarily as confirmation.

This can be repeated on each waveband and for each preset button.

### NOTE

When you drive to another part of the country, FM stations that broadcast on alternative frequencies, and are stored on preset buttons, may be updated with the correct frequency and station name for that area.

# AUTOSTORE CONTROL

## NOTE

This will store up to a maximum of the 10 strongest signals available, either from the AM or the FM waveband, and overwrite the previously stored stations. It can also be used to store stations manually in the same way as other wavebands.

## **▼** Type 1

- 1. In RADIO mode, long press the SCAN/AS button.
- 2. When the search is complete, sound is restored and the strongest signals are stored on the Autostore presets.

## ▼ Type 2, 3 and 4

- 1. Press and hold function button 1 or the RADIO button.
- 2. When the search is complete, sound is restored and the strongest signals are stored on the Autostore presets.

# TRAFFIC INFORMATION CONTROL

Many stations that broadcast on the FM waveband have a TP code to signify that they carry traffic programmeme information.

## ▼Activating traffic announcements

Before you can receive traffic announcements, you must press either the TA or TRAFFIC button. A 'TA' display will appear to show the feature is switched on.

If you are already tuned to a station that broadcasts traffic information, 'TP' will also be displayed. Otherwise the unit will search for a traffic programmeme.

When traffic information is broadcast, it will automatically interrupt normal radio or CD playback and 'Traffic announcement (TA)' will appear in the display.

If a non-traffic station is selected or recalled using a preset button, the audio unit will remain on that station unless TA or TRAFFIC is turned off, then on again.

### NOTE

- If TA is on and you select a preset or manual tune to a non TA station no traffic announcement will be heard.
- When you are listening to a non TA station and turn TA off and on again a TP seek will occur.

## ▼ Traffic announcement volume

Traffic announcements interrupt normal broadcasts at a preset minimum level that is usually louder than normal listening volumes.

To adjust the preset volume:

• Use the volume control to make the necessary adjustment during an incoming TA broadcast. The display will show the level selected.

## ▼Ending traffic announcements

The audio unit will return to normal operation at the end of each traffic announcement. To end the announcement prematurely, press TA or TRAFFIC during the announcement.

#### NOTE

If you press TA or TRAFFIC at any other time it will switch all announcements off.

# AUTOMATIC VOLUME CONTROL

When available, automatic volume control (AVC) adjusts the volume level to compensate for engine noise and road speed noise.

- 1. Press the MENU button and select AUDIO.
- 2. Select AVC LEVEL or ADAPTIVE VOL.
- 3. Use the left or right arrow button to adjust the setting.
- 4. Press the OK button to confirm your selection.
- 5. Press the MENU button to return.

# DIGITAL SIGNAL PROCESSING (DSP)

## ▼DSP occupancy

This feature takes into account the differences in distance from the various speakers in the vehicle to each seat. Select the sitting position for which the audio is to be correctly enhanced.

## ▼DSP equaliser

Select the music category that most suits your listening preference. The audio output will change to enhance the particular style of music chosen.

## ▼ Changing the DSP settings

- 1. Press the MENU button.
- 2. Select AUDIO or AUDIO SETTINGS.
- 3. Scroll to the required DSP function.
- 4. Use the up and down arrow buttons to select the required setting.
- 5. Press the OK button to confirm your selection.
- 6. Press the MENU button to return.

# **NEWS BROADCASTS**

Some audio units interrupt normal reception to broadcast news bulletins from stations on the FM waveband or radio data system (RDS) and enhanced other network (EON) linked stations, in the same way as traffic information is provided.

During news broadcasts, the display will indicate there is an incoming announcement. News interrupts are broadcast at the same preset volume level as traffic announcements.

- 1. Press the MENU button.
- 2. Select AUDIO or AUDIO SETTINGS.
- 3. Scroll to NEWS and turn on or off with the OK button.
- 4. Press the MENU button to return.

# ALTERNATIVE FREQUENCIES

Many programmemes that broadcast on the FM waveband have a programmeme identification (PI) code, which can be recognised by audio units.

If your radio has alternative frequencies (AF) tuning switched on and you move from one transmission area to another, this facility will search for and switch to a stronger station signal, if one can be found.

Under certain conditions, however, AF tuning may temporarily disrupt normal reception.

When selected, the unit continually evaluates signal strength and, if a better signal becomes available, the unit will switch to that alternative. It mutes while it checks a list of alternative frequencies and, if necessary, it will search once across the selected waveband for a genuine alternative frequency.

It will restore radio reception when it finds one or, if one is not found, the unit will return to the original stored frequency.

When selected, 'AF' will be shown in the display.

- 1. Press the MENU button.
- 2. Select AUDIO or AUDIO MENU.
- 3. Scroll to ALTERNAT FREQ. or ALTERNATIVE FREQ. and turn on or off with the OK button.
- 4. Press the MENU button to return.

# **REGIONAL MODE (REG)**

Regional mode (REG) controls the behaviour of AF switching between regionally related networks of a parent broadcaster. A broadcaster may run a fairly large network across a large part of the country. At various times of the day this large network may be broken down into a number of smaller regional networks, typically centred on major towns or cities. When the network is not split into regional variants, the whole network caries the same programming. Regional mode ON: This prevents 'random' AF switches when neighbouring regional networks are not carrying the same programming. Regional mode OFF: This allows a larger coverage area if neighbouring regional

networks are carrying the same programming, but can cause 'random' AF switches if they are not.

- 1. Press the MENU button.
- 2. Select AUDIO or AUDIO SETTINGS.
- 3. Scroll to RDS REGIONAL and turn on or off with the OK button.
- 4. Press the MENU button to return.

# COMPACT DISC PLAYBACK

## NOTE

During playback, the display indicates the disc, track and time that has elapsed since the start of the track.

During radio reception, press the CD button once to start CD playback. Playback will start immediately after a disc is loaded.

# **TRACK SELECTION**

- Press the seek up button once to move to the next track or press it repeatedly to access later tracks.
- Press the seek down button once to replay the current track. If pressed within two seconds of the start of a track, the previous track will be selected.
- Press the seek down button repeatedly to select previous tracks.

## ▼ Type 2, 3 and 4

Press the up or down arrow buttons, and using the OK button, select the required track.

## ▼ Type 3 and 4

The desired track number may be entered using the numeric keypad. Dial the required track number until complete (for example 1 then 2 for track 12), or dial the number and directly press OK.

# FAST FORWARD/ REVERSE

Press and hold the seek down or up buttons to search backwards or forwards within the tracks on the disc.

## SHUFFLE/RANDOM

Random track playback, also known as shuffle, plays all tracks on the CD in random order.

## ▼Type 1

1. Press the SHUFFLE button in CD mode.

When an MP3 CD is playing, options include SHUFFLE for the whole CD, or to play all the tracks in the folder in a random order.

## ▼Type 2

- 1. Press the MENU button and select CD MODE.
- 2. Select SHUFFLE, which then enables the function to be selected on or off.

When an MP3 CD is playing, options include SHUFFLE for the whole CD, or to play all the tracks in the folder in a random order.

## ▼ Type 3 and 4

Press function button 2.

## NOTE

When an MP3 CD is playing, options include SHUFFLE for the whole CD, or to play all the tracks in the folder in a random order. Repeat presses of function button 2 will toggle these options.

Use the seek up or down button to select the next track to shuffle if required.

## **REPEAT COMPACT DISC TRACKS**

## ▼Type 1

1. Press REPEAT button in CD mode.

When an MP3 CD is playing, options include REPEAT for the track, or to repeat all the tracks in the folder.

## ▼Type 2

- 1. Press the MENU button and select CD MODE.
- 2. Select REPEAT, which then enables the function to be selected on or off. The track will replay once ended.

When an MP3 CD is playing, options include REPEAT for the track, or to repeat all the tracks in the folder.

## ▼ Type 3 and 4

Press function button 1. When an MP3 CD is playing, options include REPEAT for the track, or to repeat all the tracks in the folder. Repeat presses of function button 1 will toggle these options.

# COMPACT DISC TRACK SCANNING

The SCAN function allows you to preview each track for approximately 5 seconds.

# ▼Type 1

- 1. Press CD/AUX to select CD MODE.
- 2. Short press SCAN/AS button to activate CD scanning.
- 3. Short press the SCAN/AS button again to continue listening to a track.

# ▼Type 2

Various scan modes are possible, according to the type of CD currently playing.

- 1. Press the MENU button and select CD MODE.
- 2. Select SCAN, which then enables the function to be selected on or off.

## NOTE

When an MP3 CD is playing, options include SCAN for the CD, or just the tracks in the folder.

3. Press the OK button to stop the scan mode.

## ▼ Type 3 and 4

1. Press function button 3.

## NOTE

When an MP3 CD is playing, options include SCAN for the CD, or just the tracks in the folder. Repeat presses of function button 3 will toggle these options.

2. Press function button 3 again to stop the scan mode.

# **MP3 FILE PLAYBACK**

MP3 (MPEG 1 Audio Layer-3) is a standard technology and format for compressing audio data. This allows a more efficient use of the media. You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs. The disc must be in the ISO 9660 level 1 or level 2 format, or Joliet or Romeo in the expansion format. You can also use a disc recorded in Multi Session.

## ▼ISO 9660 format

This is the most common international standard for the logical format of files and folders on a CD-ROM. There are several specification levels. In Level 1, file names must be in the 8.3 format (no more than 8 characters in the name, no more than 3 characters in the extension ".MP3") and in capital letters. Folder names can be no longer than 8 characters. There can be no more than 8 folder levels (trees). Level 2 specifications allow file names up to 31 characters long. Each folder can have up to 8 trees. For Joliet or Romeo in the expansion format, please consider these restrictions when configuring your CD writing software.

# ▼ Multi session

This is a recording method that enables adding of data using the Track-At-Once method.

Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

- CD-Extra: The format that records audio (audio CD data) as tracks on session 1, and records data as tracks on session 2.
- Mixed CD: In this format, data is recorded as track 1, and audio (audio CD data) is recorded as track 2.

# ▼ File formats

- With formats other than ISO 9660 level 1 and level 2, folder names or file names may not be displayed correctly.
- When naming, be sure to add the file extension ".MP3" to the file name.
- If you put the extension ".MP3" to a file other than MP3, the unit cannot recognise the file properly and will generate random noise that could damage your speakers.
- The following discs take a longer time to start playback.
  - a disc recorded with complicated tree structure.
  - a disc recorded in Multi Session.
  - a non-finalised disc to which data can be added.

# ▼ Playing a multi session disc

# When the first track of the first session is audio CD data

Only audio CD data of the first session is played back. Non-audio CD data/MP3 file information (track number, time, etc.) is displayed with no sound.

# When the first track of the first session is not audio CD data

- If an MP3 file is in the disc, only MP3 file(s) play back and other data is skipped. (Audio CD data is not recognised.)
- If no MP3 file is in the disc, nothing is played back. (Audio CD data is not recognised.)

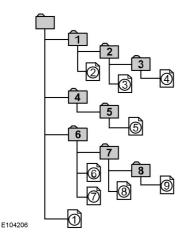
# ▼MP3 files playback order

The playback order of the folders and files is as shown.

### NOTE

A folder that does not include an MP3 file is skipped.

**Playback tip:** To specify a desired playback order, before the folder or file name, input the order by number (e.g., "01," "02"), then record contents onto a disc. (The order differs depending on the writing software.)



# ▼ID3 Tag Version 2

The following occurs when an MP3 file containing ID3 tag ver.2 is played:

- When skipping a portion of ID3 tag ver.2 (at the beginning of the track), sound is not output. Skip time changes depending ID3 tag ver.2 capacity. Example: At 64 kbytes, it is about 2 seconds (with RealJukebox).
- The displayed elapsed playing time when skipping a portion of ID3 tag ver.2 is inaccurate. For MP3 files of a bit rate other than 128 kbps, time is not displayed accurately during playback.
- When an MP3 file is created with MP3 conversion software (e.g. RealJukebox a registered trademark of RealNetworks Inc), ID3 ver.2 will automatically be written.

# ▼MP3 navigation

MP3 tracks may be recorded on the CD in several ways. They can all be placed in the root directory like a conventional audio CD, or they can be placed in folders that may represent, for example, an album, an artist, or a genre. The normal playing sequence on CDs with multiple folders is to play the tracks within the root (top level) first, then the tracks in any folder(s) within the root, then move onto the second folder, and so forth.

- Press the up or down arrow buttons to enter the track list.
- Navigate the hierarchy using the arrow buttons to select another folder or track (file).
- Press OK to select a highlighted track.

# **MP3 DISPLAY OPTIONS**

#### NOTE

Type 1 units may require repeated button presses of the INFO button to display all the available track information.

When an MP3 disc is playing, certain information encoded in each track can be displayed. Such information will normally include:

- The file name
- The folder name
- ID3 information which might be the album or artist's name

The unit will normally show the file name that is playing. To select one of the other items of information:

• Press the INFO button.

## ▼CD text display options

When an audio disc with CD text is playing, limited information encoded in each track can be displayed. Such information will normally include:

- The disc name
- The artist name
- The track name

These display options are selected in the same way as MP3 displays.

# ENDING COMPACT DISC PLAYBACK

To restore radio reception on all units:

• Press the RADIO button.

### NOTE

This will not eject the CD; the disc will merely pause at the point where radio reception was restored.

To resume CD playback, press the CD button again.

## NOTE

For optimum performance when using any auxiliary device set the volume on the device high. This will reduce audio interference when charging the device via the vehicle power supply socket.

When fitted the Auxiliary input (AUX IN) socket permits an auxiliary device, such as an MP3 player, to be linked into the vehicle audio system. Output can be played through the vehicle speakers. To connect an auxiliary device, plug it into the AUX IN socket using a 3.5 mm conventional audio jack connector. Select the auxiliary input via the AUX button and playback will be heard through the vehicle speakers. LINE IN or LINE IN ACTIVE will appear in the vehicle audio unit display. Volume, treble and bass can be adjusted on the vehicle audio unit as normal.

The vehicle audio unit buttons can also be used to restore playback from the vehicle audio unit, while the auxiliary device remains connected.

# ANTENNA

# **CAUTION**

To prevent damage to the aerial, remove it before entering a car wash or passing beneath a low overhead clearance.

### **Fixed Aerial**

The radio aerial is mounted on the roof of the vehicle above the interior rear view mirror. It is fixed and cannot be raised and lowered, however the aerial spire can be removed by unscrewing it from the base.

#### **Folding Aerial**



The radio aerial is mounted on the roof of the vehicle above the interior rear view mirror. It is can be raised and lowered. The aerial spire can be removed by unscrewing it from the base.

Audio unit display	Rectification	
PLEASE CHECK CD	General error message for CD fault conditions, such as cannot read the CD, data-CD inserted, etc. Ensure disc is loaded correct way up. Clean and re-try, or replace disc with known music disc. If error persists contact your repairer.	
CD DRIVE MALFUNCTION	General error message for CD fault conditions such as possible mechanism fault.	
CD DRIVE HIGH TEMP	Ambient temperature too hot - unit will not work until it has cooled down.	
IPOD ERROR READING DEVICE	General error message for iPod fault conditions, such as cannot read the data. Ensure iPod is inserted correctly. If error persists contact your repairer.	

# **GENERAL INFORMATION**

# **CAUTION**

Using the system with the engine off will drain the battery.

This section describes the functions and features of the Bluetooth® mobile phone hands free system.

The Bluetooth® mobile phone part of the system provides interaction with the audio or navigation system and your mobile phone. It allows you to use the audio or navigation system to make and receive calls without having to hold your mobile phone.

## ▼Compatibility of phones

# **CAUTION**

As no common agreement exists, mobile phone manufacturers are able to implement a variety of profiles in their Bluetooth® devices. Because of this, an incompatibility can occur between the phone and hands-free system, which in some cases may significantly degrade the system performance. To avoid this situation, only recommended phones should be used.

Consult an Authorised Mazda Repairer for full details.

## **TELEPHONE SETUP**

## ▼ Phonebook

After start up access to the phonebook list can be delayed for several minutes, depending upon the size.

## ▼ Phonebook categories

Depending on your phonebook entry, different categories can be displayed in the audio unit. For example:

М	Mobile
0	Office
Н	Home
F	Fax

#### NOTE

Entries may be displayed without a category attachment.

The category can also be indicated as an icon:

	Phone
:	Mobile
	Home
⋳₿	Office
Ð	Fax

## ▼ Making a phone an active phone

When using the system for the first time, no phone is connected to the system.

#### Bluetooth® phone

After bonding a Bluetooth® phone to the system, this becomes the active phone. For further information refer to the phone menu.

Select the phone from the active phone menu.

Turning the ignition and radio or navigation unit back on again, the last active phone is picked up by the system.

## NOTE

In some cases the Bluetooth® connection must also be confirmed on the phone.

## ▼Bond another Bluetooth® phone

Bond a new Bluetooth® phone as described in the requirements for a Bluetooth® connection.

Phones stored in the system are accessible by using the phone list on the audio unit.

### NOTE

A maximum of six devices may be bonded. If six Bluetooth® devices have already been bonded, one of these has to be debonded in order to bond a new device.

# **BLUETOOTH® SETUP**

Before you can use your telephone with your vehicle it must be bonded to the vehicle telephone system.

## ▼Handling of phones

Up to six Bluetooth® devices can be bonded to the vehicle system.

### NOTE

- If there is an ongoing call when the phone in use is selected as the new active phone, the call is transferred to the vehicle audio system.
- Even if connected to the car system, your phone can still be used in the usual way.

# ▼ Requirements for Bluetooth® connection

The following are required before a Bluetooth® phone connection can be made.

- The Bluetooth® feature must be activated on the phone and on the audio unit. Make sure the Bluetooth® menu option in the audio unit is set to ON. For information on phone settings, refer to your phone user guide.
- 2. In the Bluetooth® menu on your phone, search for **Mazda Audio** and select it.

- 3. Enter the code number shown on the vehicle display using the phone keypad. If no code number is shown on the display, enter the Bluetooth® PIN number 0000 using the phone keypad. Now enter the Bluetooth® PIN number shown on the vehicle display.
- 4. If your mobile phone asks you to authorise the automatic connection, select **YES**.

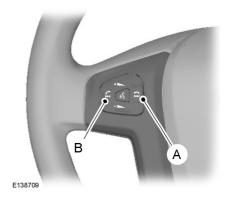
#### NOTE

A phone call will be disconnected if the audio unit is switched off. If the ignition key is turned to the off position the phone call will remain in progress.

## **TELEPHONE CONTROLS**

#### ▼Remote control

Voice and mode button



А	Reject call
В	Answer call

Incoming calls can be accepted by pressing the answer call button once. Press the reject call button to end the call or to reject the incoming call.

# **USING THE TELEPHONE**

### NOTE

- Refer to your audio guide for details of the controls. See **Audio unit overview** (page 235).
- You can exit the phone menu by pressing any source button CD, RADIO or AUX.
- When referred to, the use of the up/ down arrow buttons, seek up and seek down buttons, and the **OK** button can be used on either the steering wheel or the audio unit.

This chapter describes the phone functions of the audio unit. An active phone must be present. Even if connected to the audio unit, your phone can still be used in the usual way.

# ▼ Making a call

## Dialling a number using voice control

Phone numbers can be dialled using voice control. See **Telephone commands** (page 280).

# Dialling a number using the address book $^*$

You can access your phone address book via Bluetooth<sup>®</sup>. The entries will appear in the unit display.

- 1. Press the **PHONE** or the answer call button.
- 2. Press the up/down arrow buttons until **PHONEBOOK** is shown.
- 3. Press the **OK** button.

## NOTE

You can also use the telephone keypad to select the first letter of the entry you are looking for. Press the relevant number that corresponds to the letter repeatedly until the required letter is displayed.

4. Press the up/down arrow buttons to select the desired phone number.

#### NOTE

Press and hold the up/down arrow buttons to search forwards or backwards within the phonebook.

5. Press the **OK** button to dial the selected phone number.

# Dialling a number using the telephone keypad \*

If you have an audio unit with a telephone keypad (buttons 0-9, \* and #):

- 1. Press the **PHONE** button.
- 2. Dial the number using the telephone keypad on the audio unit.
- 3. Press the OK button.

### NOTE

If you enter an incorrect digit whilst entering a phone number, press function button 3 to erase the last digit. A long press will erase the complete string of digits.

Press and hold 0 to enter a + digit.

#### **Ending a call**

Calls can be ended by:

- pressing the reject call button.
- pressing the **OK** button.
- pressing function button 4.

#### **Redialling a number**

- 1. Press the **PHONE** or the answer call button.
- 2. Press the up/down arrow buttons until CALL LISTS is displayed.
- 3. Press the OK button.

### NOTE

If the active phone does not provide a call out list, the last outgoing call number/entry can be redialled.

- 4. Press the up/down buttons to select the desired call list.
- 5. Press the OK button.
- 6. Press the up/down buttons to select the desired phone number.
- 7. Press the OK button.

### Redialling the last dialled number \*

- 1. Press the **PHONE** or the answer call button.
- 2. Press the up/down arrow buttons until **REDIAL** is displayed.
- 3. Press the OK button.

## ▼Receiving an incoming call

### Accepting an incoming call

Incoming calls can be accepted by pressing the answer call button, or by pressing the **OK** button.

#### Rejecting an incoming call

Incoming calls can be rejected by:

- pressing the reject call button, or
- pressing the arrow down button to highlight **REJECT** and then pressing the **OK** button.

## ▼Receiving a second incoming call

#### NOTE

The second incoming call function must be activated in your phone.

If there is an incoming call whilst there is an ongoing call, a beep will be heard and you will have the option to end the active call and to accept the incoming call.

### Accepting a second incoming call

#### NOTE

The first incoming call will be disconnected and replaced by the second incoming call.

Second incoming calls can be accepted by pressing the answer call button on the steering wheel, the **PHONE** button, or by pressing the **OK** button on the audio unit.

## Rejecting a second incoming call

Second incoming calls can be rejected by:

• pressing the reject call button.

# Telephone

- pressing the arrow down button to highlight **REJECT** and then pressing the **OK** button.
- pressing function button 4.

## ▼ Muting the microphone

#### NOTE

During a call, it is possible to mute the microphone. Whilst muted, confirmation will appear in the display.

Press function button 1. Press the button once again to turn this function off.

## ▼Changing the active phone

## NOTE

- Phones must be bonded to the system before they can be made active.
- After bonding a phone to the system, this becomes the active phone.
- 1. Press the **PHONE** or accept call button.
- 2. Press the up/down buttons until **SELECT PHONE** is shown.
- 3. Press the OK button.
- 4. Scroll through the different stored phones by using the up/down buttons to display the bonded phones.
- 5. Press the OK button to select the phone which is to be the active phone.

## ▼ Debonding a bonded phone

A bonded phone can be deleted from the system at any time, unless a phone call is in progress.

- 1. Press the **PHONE** or accept call button.
- 2. Press the up/down buttons until **SELECT PHONE** is shown.
- 3. Press the **OK** button.
- 4. Press the up/down buttons to highlight the required phone.
- 5. Press function button 1.

# PRINCIPLE OF OPERATION\*

# **CAUTION**

Using the system with the engine off will drain the battery.

Voice recognition enables operation of the system without the need to divert your attention from the road ahead in order to change settings, or receive feedback from the system.

Whenever you issue one of the defined commands with the system active, the voice recognition system converts your command into a control signal for the system. Your inputs take the form of dialogues or commands. You are guided through these dialogues by announcements or questions. Please familiarise yourself with the functions of the system before using voice recognition.

## ▼Supported commands

The voice control system allows you to control the following vehicle functions:

- Bluetooth® phone
- radio
- CD Player
- external device (USB)
- external device (iPod)
- external device (Bluetooth® audio)
- automatic air-conditioning

## ▼System response

As you work through a voice session the system will prompt you with a beep tone each time the system is ready to proceed. Do not try to give any commands until the beep tone has been heard. The voice control system will repeat each spoken command back to you.

If you are not sure how to continue say "HELP" for assistance or "CANCEL" if you do not wish to continue.

Say "Back" to perform the operation from the beginning again.

The "HELP" function provides only a subset of the available voice commands. Detailed explanations of all possible voice commands can be found on the following pages.

## ▼Voice commands

All voice commands should be given using a natural speaking voice, as if speaking to a passenger or on the phone. Your voice level should be dependant on the surrounding noise level inside or outside the vehicle but do not shout.

# **USING VOICE CONTROL\***

## ▼System operation

The order and content of the voice controls are given in the following lists. The tables show the sequence of user voice commands and system responses for each available function.

<> indicates a number or stored name tag to be inserted by the user.

#### Short cuts

There are a number of voice command short cuts available, which allow you to control some vehicle features without having to follow the complete command menu. These are:

- phone:"MOBILE NAME", "DIAL NUMBER", "CALL <first name>, <last name> AT <location> (Ex. "Call Fred Bloggs at home")", and "REDIAL"
- CD player/CD changer:"DISC"
- automatic airconditioning:"TEMPERATURE <number> DEGREES (Ex. "Temperature 21 degrees")", "AUTO MODE", "DEFROSTING/ DEMISTING ON" and "DEFROSTING/DEMISTING OFF"
- radio:"STATION NAME"

## (Switching audio source)

When the following command is spoken out, the audio source can be switched.

Voice command	Explanation
"PLAY RADIO"	Switches the audio source to radio.
"PLAY CD"	Switches the audio source to CD.
"LINE IN" or "AUXILIARY"	Switches the audio source to auxiliary input.
"PLAY USB"	Switches the audio source to USB.
"PLAY IPOD"	Switches the audio source to iPod.
"PLAY BLUETOOTH"	Switches the audio source to Bluetooth® audio.

#### NOTE

- Some commands cannot be used depending on devices and use conditions.
- If the Bluetooth® device, USB, or AUX is not connected, the related commands cannot be used.

#### Start communicating with the system

Before you can start talking to the system you first have to press the **VOICE** button for each operation and wait until the system answers with a beep. See **Voice Control** (page 49).

Press the button again to cancel the voice session.

## ▼Name tag

The name tag functionality can support the phone, audio and navigation features by using the "STORE NAME" function. You can assign name tags to items such asfavourite radio stations and personal phone contacts. See **Audio unit commands** (page 271). See **Telephone commands** (page 280).

- Store up to 20 name tags per function.
- The average recording time for each name tag is approximately 2-3 seconds.

# AUDIO UNIT COMMANDS\*

## ▼CD Player

You can control playback directly by voice control.

#### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"CD"
"PLAY"
"TRACK"
"SHUFFLE ALL"
"SHUFFLE FOLDER" <sup>*</sup>
"SHUFFLE OFF"
"REPEAT FOLDER"*
"REPEAT TRACK"
"REPEAT OFF"

\* Only available if the CD contains audio data files like MP3 or WMA.

#### Track

You can choose a track on your CD directly.

Steps	User says	System answer
1	"CD"	"CD"
2	"TRACK"	"TRACK NUMBER PLEASE"
3	" <a 1="" 99="" and="" between="" number="">"*</a>	"TRACK <number>"</number>

\* Additionally, numbers can be spoken as up to four single digits (for example "2", "4", "5" for track 245)

#### Shuffle all

To set random playback.

Steps	User says	System answer
1	"CD"	"CD"
2	"SHUFFLE ALL"	

### **▼**Radio

The radio voice commands support the functionality of the radio and allow you to tune radio stations by voice control.

#### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu.

"RADIO"
"AM <frequency>"</frequency>
"FM <frequency>"</frequency>
"STATION NAME"
"DELETE NAME"
"DELETE DIRECTORY"
"PLAY DIRECTORY"
"STORE NAME"
"PLAY"

#### **Tune frequency**

This function allows you to tune your radio by voice commands.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"AM <frequency>"*</frequency>	
	"FM <frequency>"*</frequency>	

\* The frequency may be entered in a variety of ways. Refer below for representative examples.

#### FM band:87.5 - 108.0 in increments of 0.1

- "Eighty nine point nine"(89.9)
- "Ninety"(90.0)
- "One hundred point five"(100.5)
- "One zero one point one"(101.1)
- "One zero eight"(108.0)

AM/MW band:531 - 1602 in increments of 9

AM/LW band:153 - 281 in increments of 1

- "Five thirty one"(531)
- "Nine hundred"(900)
- "Fourteen forty"(1440)
- "Fifteen zero three"(1503)
- "Ten eighty"(1080)

#### Store name

If you have tuned a radio station, you can store it with a name in the directory.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"STORE NAME"	"STORE NAME" "NAME PLEASE"
3	" <name>"</name>	"REPEAT NAME PLEASE"
4	" <name>"</name>	"STORING NAME" " <name> STORED"</name>

#### Station name

This function allows you to call up a stored radio station.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"STATION NAME"	"NAME PLEASE"
3	" <name>"</name>	"TUNE <name>"</name>

#### **Delete name**

This function allows you to delete a stored radio station.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"DELETE NAME"	"NAME PLEASE"
3	" <name>"</name>	"DELETE <name>" "CONFIRM YES OR NO"</name>
4	"YES"	"DELETED"
4	"NO"	"COMMAND CANCELLED"

#### **Play directory**

This function allows you to let the system tell you all of the stored radio stations.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"PLAY DIRECTORY"	"PLAY <directory>"</directory>

#### **Delete directory**

This function allows you to delete all stored radio stations at once.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"DELETE DIRECTORY"	"DELETE DIRECTORY" "CONFIRM YES OR NO"
3	"YES"	"RADIO DIRECTORY DELETED"
5	"NO"	"COMMAND CANCELLED"

## Play

This function switches the audio source to the radio mode.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"PLAY"	

## **▼**Auxiliary input

This function allows you to switch the audio source to the attached auxiliary input device.

Steps	User says	System answer
1	"LINE IN" or "AUXILIARY"	"LINE IN" or "AUXILIARY"

## ▼External devices - USB

These voice commands support the functionality of an external USB device which may be connected to the audio unit.

### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"USB"
"PLAY"
"TRACK"
"PLAYLIST"*
"FOLDER"*
"SHUFFLE ALL"
"SHUFFLE FOLDER"
"SHUFFLE PLAYLIST"
"SHUFFLE OFF"
"REPEAT TRACK"
"REPEAT FOLDER"
"REPEAT OFF"

\* Play lists and folders activated by voice control must be assigned special filenames.

#### **USB** play

This function allows you to switch the audio source to the attached USB device.

Steps	User says	System answer
1	"USB"	"USB"
2	"PLAY"	

#### **USB** Track

You can choose a track on your USB device directly.

Steps	User says	System answer
1	"USB"	"USB"
2	"TRACK"	"TRACK NUMBER PLEASE"
3	" <a 1="" 99="" and="" between="" number="">"*</a>	"TRACK <number>"</number>

\* Additionally, numbers can be spoken as up to four single digits (for example "2", "4", "5" for track 245)

## ▼External devices - iPod

These voice commands support the functionality of an iPod which may be connected to the audio unit.

#### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"IPOD"
"PLAY"
"TRACK"
"PLAYLIST"*
"SHUFFLE ALL"
"SHUFFLE FOLDER"
"SHUFFLE PLAYLIST"
"SHUFFLE OFF"
"REPEAT TRACK"
"REPEAT FOLDER"
"REPEAT OFF"

\* Playlist activated by voice control must be assigned special filenames.

#### iPod Track

You can choose a track off the all titles list of your iPod directly.

Steps	User says	System answer
1	"IPOD"	"IPOD"
2	"TRACK"*	"TRACK NUMBER PLEASE"
3	" <a 1="" 99="" and="" between="" number="">"**</a>	"TRACK <number>"</number>

\* Can be used as a shortcut.

\*\* Additionally, numbers can be spoken as up to five single digits (for example "5", "2", "4", "5", "3" for track 52453), to a limit of 65535.

#### iPod playlist

You can choose a playlist from your iPod directly.

Steps	User says	System answer
1	"IPOD"	"IPOD"
2	"PLAYLIST"*	"PLAYLIST NUMBER PLEASE"
3	" <a 1="" 10="" and="" between="" number="">"</a>	"PLAYLIST <number>"</number>

\* Playlist activated by voice control must be assigned special filenames

#### External devices - Bluetooth®

These voice commands support the functionality of Bluetooth® which may be connected to the audio unit.

#### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"BLUETOOTH"
"PLAY"
"SHUFFLE ALL"
"SHUFFLE OFF"
"REPEAT TRACK"
"REPEAT OFF"

# TELEPHONE COMMANDS\*

## **V**Phone

Your phone system allows you to create an additional phonebook. The stored entries can be dialled by voice control. Phone numbers stored by using voice control are stored on the vehicle system and not in your phone.

#### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"TELEPHONE"
"MOBILE NAME"*
"DIAL NUMBER"*
"CALL <first name=""> <last name=""> AT <location>"*</location></last></first>
"REDIAL"*
"ACCEPT CALLS"
"REJECT CALLS"

\* Can be used as a shortcut.

#### **▼**Phone functions

#### **Dial number**

Phone numbers can be dialled after giving the name tag voice command.

Steps	User says	System answer
1	"TELEPHONE"	"TELEPHONE"
2	"DIAL NUMBER"*	"NUMBER PLEASE"
3	" <phone number="">"</phone>	" <phone number=""> CONTINUE?"</phone>
	"DIAL"	"DIALLING"
4	"CORRECTION"	" <repeat last="" of<br="" part="">number&gt; CONTINUE?"</repeat>

\* Can be used as a shortcut.

#### Dial/Call name

Phone numbers can be dialled after giving the name tag voice command.

Steps	User says	System answer
1	"TELEPHONE"	"TELEPHONE"
2	"CALL <first name&gt;, <last name=""> AT <location> (Ex. "Call Fred Bloggs at home")"</location></last></first 	"DIALLING"

#### Redial

This function allows you to redial the last dialled phone number.

Steps	User says	System answer
1	"TELEPHONE"	"TELEPHONE"
2	"REDIAL"*	"REDIAL" "CONFIRM YES OR NO"
	"YES"	"DIALLING"
3	"NO"	"COMMAND CANCELLED"

\* Can be used as a shortcut.

#### Mobile name

This function allows you to access phone numbers stored with a name tag in your mobile phone.

Steps	User says	System answer
1	"TELEPHONE"	"TELEPHONE"
2	"MOBILE NAME" <sup>*</sup>	"MOBILE NAME" " <phone dependent<br="">dialogue&gt;"</phone>

\* Can be used as a shortcut.

#### DTMF (Tone dialling)

This function transfers spoken numbers into DTMF tones. For example, to make a remote enquiry to your home answering machine or to enter a PIN number etc.

#### NOTE

DTMF can only be used during an ongoing call. Operate the VOICE button and wait for the system prompt. Can only be used with vehicles installed with a dedicated VOICE button.

Steps	User says	System answer
1		"NUMBER PLEASE"
2	" <numbers 1="" 9,<br="" to="">zero, hash, star&gt;"</numbers>	

#### ▼Main settings

#### **Reject calls**

Calls can be set to be automatically rejected using voice control.

Steps	User says	System answer
1	"TELEPHONE"	"TELEPHONE"
	"REJECT CALLS"	"REJECT CALLS"
2	"ACCEPT CALLS" <sup>*</sup>	"ACCEPT CALLS"

\* use this command to turn the reject mode off

### CLIMATE CONTROL COMMANDS\*

#### ▼ Climate

The climate voice commands supports the functionality of the fan speed, temperature and mode settings. Not all functions are available on all vehicles.

#### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"CLIMATE"
"DEFROSTING/DEMISTING ON"*
"DEFROSTING/DEMISTING OFF"*
"TEMPERATURE <number> DEGREES"*</number>
"AUTO MODE"*

\* Can be used as a shortcut.

#### **Defrosting/Demisting**

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"DEFROSTING ON/DEMISTING ON" <sup>*</sup>	"DEFROSTING ON/DEMISTING ON"
	"DEFROSTING OFF/DEMISTING OFF"	"DEFROSTING OFF/DEMISTING OFF"

\* Can be used as a shortcut.

#### Temperature

This function allows you to adjust the temperature.

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"TEMPERATURE <number> DEGREES (Ex. Temperature 21 degrees)"*</number>	"TEMPERATURE <number> DEGREES"</number>

\* Can be used as a shortcut. The temperature can be set in 0.5 degree C (1 degrees F) increments between 16 (61 degrees F) and 28 (82 degrees F) degrees C.

#### Auto mode

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"AUTO MODE"*	"AUTO MODE"

\* Can be used as a shortcut. Can be deactivated by selecting a different temperature or fan speed.

### **GENERAL INFORMATION**

### **CAUTION**

- Take care when handling external devices with exposed electrical connectors (such as the USB plug). Always replace the protective cap/ shield when possible. There may be a risk of electrostatic discharge causing damage to the device.
- Do not touch or handle the USB socket in the vehicle. Cover the socket when not in use.
- Only use USB Mass-Storage device compliant devices.
- Always switch your audio unit to a different source (for example the radio) before unplugging the USB device.
- Do not install or connect USB hubs or splitters.

#### NOTE

- The system is only designed to recognise and read suitable audio files from a USB device that conforms to the USB Mass-Storage device class or an iPod. Not all available USB devices can be guaranteed to function with the system.
- It is possible to connect compatible devices with a trailing USB lead as well as those that plug into the vehicle USB socket directly (for example USB memory sticks and pen drives).
- Some USB devices with a higher power consumption may not be compatible (for example some larger hard drives).
- Access time to read the files on the external device will vary depending upon factors such as the file structure, size and device content.

The system supports a range of external devices, to fully integrate with your audio unit via the USB and auxiliary input sockets. Once connected, control of the external device is possible via the audio unit.

A list of typical compatible devices are shown below:

- USB memory sticks
- USB portable hard drives
- Some MP3 players with USB connection
- iPod media players

The system is USB 2.0 full speed compatible, USB 1.1 host compliant and supports FAT 16/32 file systems.

# ▼ Information on audio file structures for external devices

#### USB

Create only a single partition on the USB device.

We recommend that you put MP3 files in a folder.

If play lists are created, they must contain correct file paths referenced to the USB device. It is recommended to create the playlist after the audio files have been transferred to the USB device. Playlist must be created in .m3u format. Audio files must be in .mp3 format. Do not exceed the following limits:

- 1000 items per folder (files, folders and play lists)
- 5000 folders per USB device (including play lists)
- 8 subfolder levels.

To enable voice control for custom play lists and folders, follow the procedure below:

- Create folders named with the structure "Mazda<\*>" where <\*> is a number 1-10. For example "Mazda3" without an extension.
- Create play lists named with the structure "Mazda<\*>.m3u" where <\*> is a number 1-10. For example "Mazda5.m3u" without any space between "Mazda" and the number.

Thereafter, custom folders and play lists will be selectable with voice control. See **Audio unit commands** (page 271).

#### iPod

To enable voice control for custom play lists, create play lists named with the structure "**Mazda**<\*>" where <\*> is a number 1-10. For example "**Mazda**7" without any space between "**Mazda**" and the number.

Thereafter, play lists will be selectable with voice control. See **Audio unit commands** (page 271).

# CONNECTING AN EXTERNAL DEVICE

# A WARNING

Make sure the external device is securely mounted within the vehicle, and that trailing connections do not obstruct any of the driving controls.

External devices may be connected using the auxiliary input socket and the USB port. See Auxiliary input (AUX IN) socket (page 111). See USB port (page 111).

#### ▼ Connection

Plug in the device, and if necessary secure it to prevent movement within the vehicle.

#### **Connecting an iPod**

It is possible to connect your iPod using the standard iPod USB lead and a separate 3.5 mm audio jack lead. If using this method preset the iPod volume to maximum and turn off any equalizer settings before making the connections:

- Connect the headphone output of the iPod to the AUX IN socket.
- Connect the USB lead from the iPod to the vehicle USB socket.

### CONNECTING AN EXTERNAL DEVICE -VEHICLES WITH: BLUETOOTH®

▼ Connecting a Bluetooth® audio device

# **CAUTION**

As various standards exist, manufacturers are able to implement a variety of profiles in their Bluetooth® devices. Because of this, an incompatibility can occur between the Bluetooth® device and the system, which in some cases may limit system functionality. To avoid this situation, only recommended devices should be used.

Consult an Authorised Mazda Repairer for full details.

#### Bonding the device

#### NOTE

Some audio and navigation units have a separate Bluetooth® audio menu. Use this to access setup and control.

To connect the device to the system follow the same procedure as for Bluetooth® hands free phones. See **Bluetooth® setup** (page 264).

#### Operating the device

Select Bluetooth® audio as the active source.

Tracks can be accessed by skipping forwards and backwards using the steering wheel controls, or directly from the audio unit controls.

### **USING A USB DEVICE**

Various icons are used to identify types of audio file, folders etc.

Ü	USB device is the active source
	Folder
	Playlist
$\bigcirc$	Album
•• _	Artist
	Filename
59	Track title
[?	Information not available

### **▼**Radio

#### Operation

Select the USB device as the audio source by repeatedly pressing the **CD/AUX** button until USB appears in the display. After first connecting the USB device, the first track within the first folder will start to play automatically. Subsequently, following audio source switching, the position of playback on the USB device is remembered.

To browse the device contents, press the up/down arrow key or the OK button once.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the folder view.
- ">" after an entry indicates a further level down is readable (for example a folder named after an album, with individual album tracks within that folder).
- "<" before the list indicates that a further level up is readable.
- Icons to the left of track/folder text indicate the type of file/folder. Refer to the list for an explanation of these icons.

To navigate the USB device contents, use the up/down arrow keys to scroll through lists, and the left/right keys to move up or down within the folder hierarchy. Once your desired track, playlist or folder is highlighted, press the OK button to select playback.

#### NOTE

If you wish to jump to the top level of the USB device contents, press and hold the left arrow key.

#### Audio control

Press the left and right arrow keys to skip backwards and forwards through tracks. Press and hold the left/right arrow keys to enable fast rewind/fast forward through track content.

Press the up/down arrow key or the OK button to browse the device contents. Press the MENU key to enter the USB menu. It is possible to enable shuffle and repeat functions here with respect to folders and play lists.

Press the SCAN button to scan the whole device, current folder or a playlist if it is in operation.

Press the **INFO** button to display the following:

- filename
- title
- artist
- album
- track number and playing time.

Repeated button presses will scroll through these displays.

### ▼SD Navigation units\*

#### Operation

Select the USB device as the audio source by pressing the **CD/AUX** button until the USB button appears to the left of the display. Select USB from the available device list.

#### NOTE

Some devices may be shown but not selectable, depending if the device is connected or not.

After first connecting the USB device, the first track within the first folder will start to play automatically. Subsequently, following audio source switching, the position of playback on the USB device is remembered.

To browse the device contents, press the scroll up or down arrow button. The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the folder view.
- ">" after an entry indicates a further level down is readable (for example a folder named after an album, with individual album tracks within that folder).
- "<" to the left hand side of the display indicates that a further level up is readable.
- Icons to the left of track/folder text indicate the type of file/folder. Refer to the list for an explanation of these icons.

To navigate the USB device contents, use the scroll buttons to browse through lists. Push the button to expand the contents within the highlighted playlist or folder, or to commence playback of a particular track. Press the left arrow key to go up one level.

#### Audio control

Press the **SEEK** up and down keys to skip backwards and forwards through tracks. Press and hold the **SEEK** keys to enable fast rewind/fast forward through track content.

Press the scroll bar arrow keys to browse the device contents.

Press SHUFFLE or REPEAT buttons to enable shuffle and repeat functions with respect to folders and play lists. Press the SCAN button to scan the current playlist if it is in operation, or the complete USB device or folder. Press the **INFO** button to display the following:

- filename
- title
- artist
- album
- track number and playing time.

### **USING AN IPOD**

Various icons are used to identify types of audio file, folders etc.

0	iPod is the active source
	iPod playlist
•–)	iPod artist
$\bigcirc$	iPod album
臣	iPod genre
53	iPod song
	iPod generic category
	iPod generic media file

### **▼**Radio

#### Operation

Connect the iPod. See **Connecting an external device** (page 286). Select the iPod as the audio source by repeatedly pressing the **CD/AUX** button until iPod appears in the display. The iPod menu list for browsing contents will be available through the radio display. Navigation of the contents follows the same principles as for iPod standalone use (for example search by artist, title, etc.). To browse the iPod contents, press the up/down arrow key or the OK button once. The display will show the track

information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the list view.
- ">" after an entry indicates a further level down is readable (for example all albums by a particular artist).
- "<" before the list indicates that a further level up is readable.
- An icon on the left side indicates the type of the currently displayed list (for example list of albums). Refer to the list for an explanation of these icons.

To navigate the iPod contents, use the up/ down arrow keys to scroll through lists, and the left/right keys to move up or down within the hierarchy. Once your desired track, playlist, album, artist or genre is highlighted, press the OK button to select playback.

#### NOTE

If you wish to jump to the top level of the iPod contents, press and hold the left arrow key.

#### Audio control

Press the left and right arrow keys to skip backwards and forwards through tracks. Press and hold the left/right arrow keys to enable fast rewind/fast forward through track content.

Press the up/down arrow key or the OK button to browse the iPod contents. Press the **MENU** key to enter the iPod menu. It is possible to enable shuffle and repeat functions here. It is also possible to enable the iPod "Shuffle songs" option directly from the top level.

Press the **SCAN** button to scan the currently selected tracks.

Press the **INFO** button to display the following:

- title
- artist
- track number and playing time.

Repeated button presses will scroll through these displays.

#### ▼SD Navigation units\*

#### Operation

Connect the iPod. See **Connecting an external device** (page 286). Select the iPod as the audio source by pressing the **CD/AUX** button until the iPod button appears to the left of the display. Select iPod from the available device list.

#### NOTE

Some devices may be shown but not selectable, depending if the device is connected or not.

The iPod menu list for browsing contents will be available through the display. Navigation of the contents follows the same principles as for iPod standalone use (for example search by artist, title, etc.). To browse the iPod contents, press the scroll up or down arrow button. The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the list view.
- ">" after an entry indicates a further level down is readable (for example all albums by a particular artist).
- "<" before the list indicates that a further level up is readable.
- An icon on the left side indicates the type of the currently displayed list (for example list of albums). Refer to the list for an explanation of these icons.

To navigate the iPod contents, use the scroll buttons to browse through lists. Push the button to expand the contents within the highlighted playlist, album, artist, genre or to commence playback of a particular track. Press the left arrow key to go up one level.

#### Audio control

Press the **SEEK** up and down keys to skip backwards and forwards through tracks.

Press and hold the **SEEK** keys to enable fast rewind/fast forward through track content.

Press the scroll bar arrow keys to browse the iPod contents.

Press the MENU key to enter the iPod menu. It is possible to enable shuffle and repeat functions here. It is also possible to enable the iPod "Shuffle songs" option directly from the top level. Press the SCAN button to scan the

currently selected tracks.

Press the **INFO** button to display the following:

- title
- artist
- track number and playing time.

### **TYPE APPROVALS**

#### ▼ FCC/INDUSTRY CANADA NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: WJLRX-42

IC: 7847A-RX42

Changes or modifications to your device not expressly approved by the party responsible for compliance can void the user's authority to operate the equipment.

#### **RX-42 - declaration of conformity**

We, the party responsible for compliance, declare under our sole responsibility that the Handset Integration product RX-42 is in conformity with the provisions of the following Council Directive: 1999/5/EC. A copy of the Declaration of Conformity can be found at: www.novero.com/ declaration\_of\_conformity

### **TYPE APPROVALS**

iPod is a trademark of Apple Inc.

# TYPE APPROVALS



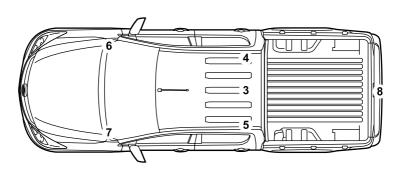


SD Logo is a trademark.

### **ELECTROMAGNETIC COMPATIBILITY**

### A WARNING

- Your vehicle has been tested and certified to legislations relating to electromagnetic compatibility (72/245/EEC, the UNECE \*1 10 Regulation or other applicable local requirements). It is your responsibility to ensure that any equipment you have fitted complies with applicable local legislations. Have any equipment fitted by properly trained technicians.
- \*1 UNECE stands for United Nations Economic Commission for Europe.
- The RF (radio frequency) transmitter equipment (e.g. cellular telephones, amateur radio transmitters etc.) may only be fitted to your vehicle if they comply with the parameters shown in the table below. There are no special provisions or conditions for installations or use.
- Do not mount any transceiver, microphones, speakers, or any other item in the deployment path of the airbag system.
- Do not fasten aerial leads to original vehicle wiring, fuel pipes and brake pipes.
- Keep aerial and power leads at least 10 centimetres (4 inches) from any electronic modules and airbags.



### Appendices

Frequency Band MHz	Maximum output power Watt (Peak RMS)	Aerial Positions
1 - 30	100 W	8
50 - 54	100 W	3, 4, 5
68 - 87.5	50 W	3, 4, 5
142 - 176	50 W	3, 4, 5
220 - 225	50 W	3, 4, 5
380 - 512	50 W	3, 4, 5
806 - 870	10 W	$3, 4, 5, 6^*, 7^*$
870 - 940	10 W	$3, 4, 5, 6^*, 7^*$
1200 - 1400	10 W	3, 4, 5
1710 - 1885	10 W	$3, 4, 5, 6^*, 7^*$
1885 - 2025	10 W	$3, 4, 5, 6^*, 7^*$

\* Only for GSM/3G cellular phones, with a patch aerial installed inside of the front windscreen.

#### NOTE

- Position 6 & 7 are patch aerials, 8 is the towbar.
- After the installation of RF transmitters, check for disturbances from and to all electrical equipment in the vehicle, both in the standby and transmit modes.

Check all electrical equipment:

- with the ignition **ON**
- with the engine running
- during a road test at various speeds.

Check that electromagnetic fields generated inside the vehicle cabin by the transmitter installed do not exceed applicable human exposure requirements.

### **TYPE APPROVALS**

#### **Remote control**

#### NOTE

We recommend that you use the remote control only in the countries listed.

If the type approval of your remote control is inspected, refer to the following table.

Remote control with flip key

Type approval of the remote control		
Country	Official test number	
$ \begin{array}{c} (A) \\ (A) \\ (B) \\ (C) $	Siemens VDO, 5WK4 8791 <b>(                                   </b>	
BG	Siemens VDO, 5WK4 8791, 🜀	
CZ	Siemens VDO, 5WK4 8791, <b>(2</b> 1	
	Siemens VDO, 5WK4 8791, 00590 2003	
J	Siemens VDO, 5WK4 8793	
PL	Siemens VDO, 5WK4 8791, CLBT/C/101/2003	
RC		
SK	Siemens VDO, 5WK4 8791, <b>C<sub>SK</sub> 1</b>	

1 Hereby, Siemens VDO declares that this remote control is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

#### Remote control without flip key

Type approval of the remote control	
Country	Official test number
A B D DK E	
F FIN GB GR H	<b>C€0499</b> 0 <sup>1</sup>
NL P S	
AUS BR GBZ M TR	<b>SIEMENS</b> 433,92 MHz 5WK4 725/8686/8071
CH	BAKOM 97.0946.K.P.
CY	MCW 129/95 23/1997
CZ	ČZ ČTÚ 1999 2 R 712
	272/3-1998
NZ	C
PL	542/98
RC	<b>迎</b> 電波 88LP0012
(SK)	「手 TÚ R 119 SR 1999 2
ZA	Ref.No.: 3K43D/3R1B9/SPLS-RX9/98

1 Hereby, Siemens VDO declares that this remote control is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

#### **Engine immobiliser**

If the type approval of your engine immobiliser is inspected, refer to the following table.

Type approvals of the engine immobilisation system	
Country	Official test number
(A) (AND) (B) (CH) (D) (DK) (E)	
(F) (FN) (FR) (GB) (GBZ) (GR) (H)	C€0682 © 1
$(\textbf{\textbf{I}}) (\textbf{\textbf{RL}}) (\textbf{\textbf{S}}) (\textbf{\textbf{L}}) (\textbf{\textbf{N}}) (\textbf{\textbf{NL}})$	
(P) (RO) (S) (SLO)	
AL	143
AUS (BH) (BM) (ET) (FP) (GAB) (J)	
JA KN KWT MAD PNG RL (TT	No number required
$\mathbb{W}$ $\mathbb{W}$ $\mathbb{W}$	
BDS	340/3 Vol. II
BG	ДКД P 14 085/2002
BRN	DLM/GEN/18/18/16
BRU	DRQ-D-PREMIER-10-1996- 3860-LPD2-1667
BY	ВҮ/112 03.2.3. И А2294
CDN	3043104475A

1 Visteon Deutschland GmbH declares that the immobiliser system transceiver complies with the appropriate essential requirements of the Article 3 of the R&TTE and the other relevant provisions.

Type approvals of the engine imr	nobilisation system
Country	Official test number
CY	M.C.W 129/95/(11)
CZ	(cz
GH	SPLS/-485/2001
ĤK	This derice couples with the train-scannelostics Core from: Teric 2010/2000年には、Franciscon Core 武道品符合語時、(小切中部中) (新見領導) 令 Certificate Son, LP402055 社會研究, Office of the Telecommunications Authority 電力管理局
HB	SRD 153/01
JOR	4/U/U/4250
KSA	(10/1900)
	451R
M	WT/122/98 II
MAL	F00053/1/2002
MEX	RLVVIVP03-324
MK	08 114/2
NZ	ENG 3/2/RFS29
(CAMMAO)	OMA/1265(A) 1308/2001
PL	MŁ S.H. Nr 003/2002
RC	<b>建</b> 電波 91LP0066
RI	1381
RM	2003/348- OMERT/DC/CAA

Type approvals of the engine immob	pilisation system
Country	Official test number
RP	ESD- 0201430C
RUS	ME83 POCC DE.ME83.B02099
SGP	IDA approved part LPREQ-0259-2002
SK	171
TB	B.61.TK.0.22.00.00/ 4940-2632
UAE	5/10-2/3274/3774
USA (PR)	NT8-15607PAT3XCVR
ŴŪ	11/1 01 009/2002 006
ZA	SPLS/RX-485/2001

#### Alarm

If the type approval of your alarm is inspected, refer to the following official test numbers.



### **TYPE APPROVALS**

**Tyre Pressure Monitoring System** 

### **European Union**



Herby, Schrader Electronics UK Ltd., declares that this TPMS is in compliance with the essential requirements and other provisions of directive 1999/5/EC. The declaration of conformity may be consulted at emcteam@schrader.co.uk

Jordan

Kingdom of Jordon Type approval for tyre pressure sensor. Model: AG2SZ4 Manufacturer: Schrader Electronics Type Approval Number: TRC/LPD/2014/ 56

RAQP/33A/0514/S/(14-0847)

# A

A/C
Air-Conditioning 88
About This Manual 1
ABS
Brakes 130
ABS driving hints
Hints on Driving With Anti-Lock
Brakes 131
Accessories
Parts and Accessories 2
Adjusting the Steering Wheel 48
Aerial
Air Conditioning
Air-Conditioning 88
Air Vents
Air Vents 89
Air-Conditioning 88
Principle of Operation 88
Air-conditioning commands 282
Climate 282
Alarm 45
Alternative frequencies 251
Appendices 293
Arming the alarm 47
Arming the engine immobiliser 43
Ashtray 107
At a Glance
Airbag7
Changing the time 243
Instrument panel overview - Left-
hand drive 3
Instrument panel overview - Right-
hand drive 3

# A

Audible Warnings and Indicators 81
Alarm warning 82
Direction indicators warning 82
Door open warning 81
Key in ignition warning 82
Lights on warning 81
Low fuel level warning 81
Low washer fluid warning 82
Missed lock warning 82
Not in park warning 81
Over speed warning 82
Parking brake warning 81
Restraints back-up warning
Turn indicator
Audio Control 49
Mode 49
Seek 49
Audio introduction 233
Audio system care 261
Audio system security 242
Audio troubleshooting 262
Audio unit clock and date displays 243
Audio unit commands 271
Auxiliary input
Auxiliary input
CD Player 271
CD Player 271 External devices - iPod 276
CD Player
CD Player
CD Player

# Index

# A

Automatic Air-Conditioning
Air distribution control
Blower
Cooling the interior quickly
Recirculated air
Switching off the automatic air-
conditioning
Switching the air conditioning on and
off
Temperature control
Windscreen defrosting and
demisting
Automatic Transmission 126
Active Adaptive Shift (AAS) 128
Emergency park position release
button 129
Hints on driving with an automatic
transmission 128
Selector lever positions 126
Automatic volume control 250
Autostore control 248
Type 1 248, 254, 255
Type 2, 3 and 4 248
Autowipers 50
Auxiliary input (AUX IN) socket 111
Auxiliary Power Points 108

### B

Battery connection points	191
Battery warning symbols	191
Bluetooth® setup	264
Handling of phones	264
Requirements for Bluetooth®	
connection	264
Bonnet Lock	
Opening and Closing the	
Bonnet	169

### B

Booster leads
Jump-Starting the Vehicle 190
Booster Seats 17
Booster cushion (Group 3) 17
Booster seat (Group 2) 17
Brake and Clutch Fluid Check 179
Brakes 130
Principle of Operation 130
Bulb changing
Changing a Bulb 60
Bulb Specification Chart 67

### С

# С

Changing a Road Wheel	
Installing a road wheel	. 201
Jacking and lifting points	
Locking wheel nuts	. 194
Removing a road wheel	. 200
Spare wheel	
Stowing the wheel	. 202
Vehicle jack	
Changing the remote control battery	
Changing the remote control	
battery	37
Changing the Wiper Blades	52
Changing the windscreen wiper	
blades	52
Checking the Wiper Blades	52
Child Restraint	
Child restraint precautions	9
Child Safety	9
Child Safety Locks	19
Left-hand side	19
Right-hand side	19
Child Seat Positioning	14
Cigar Lighter	. 107
Cleaning the Exterior	. 188
Body paintwork preservation	. 188
Cleaning the chrome trim	. 188
Cleaning the headlamps	. 188
Cleaning the rear window	. 188
Cleaning the Interior	. 189
Instrument cluster screens, LCD	
screens, radio screens	. 189
Rear windows	. 189
Seat belts	, 189
Clock	. 106
Coded keys	43
Cold Weather Precautions	
Compact disc playback	
Compact disc player	

### С

Compact disc track scanning 255
Туре 1 255
Type 2 254, 255
Type 3 and 4 256
Connecting an external device
Connecting an external device 286
Connection 286
Connecting an external device - Vehicles
With: Bluetooth® 286
Connecting a Bluetooth® audio
device
Connectivity 284
General Information 284
Constant monitoring 33
Convenience features 106
Coolant Check
Engine Coolant Check 178
Cruise control
Using Cruise Control 143
Cruise Control 143
Principle of Operation 143
Cup Holders 108
Front cup holders 108
Rear cup holders 109

### D

Diesel Particulate Filter	
Diesel Particulate Filter	116
Regeneration	116
Digital signal processing (DSP)	250
Changing the DSP settings	250
DSP equaliser	250
DSP occupancy	250
Direction Indicators	59

# Index

# D

Disabling the passenger airbag
Disabling the passenger airbag 32
Enabling the passenger airbag 33
Fitting the passenger airbag
deactivation switch 32
Disarming the alarm 47
Disarming the engine immobiliser 44
DPF
Diesel Particulate Filter 116
Draining the Fuel Filter Water Trap 180
Driving Hints 148
Driving Through Water 150
Driving through water 150
Dynamic Stability Control 134
Principle of Operation 134

### E

Electric exterior mirrors 71
Electric folding mirrors 71
Electromagnetic compatibility 295
Electronic Locking Differential 125
Ending compact disc playback 259
Engine Coolant Check 178
Checking the coolant level 178
Topping up 177, 178, 179
Engine immobiliser
Engine immobiliser 42
Principle of Operation 42
Engine Oil Check
Checking the oil level 177
Engine Oil Check 177
Topping up 178
Engine Oil Dipstick - MZ-CD 2.2/MZ-
CD 3.2 I5 176
Engine Oil Dipstick - MZI 2.5 176
Exterior Mirrors 70
Manual folding mirrors 70

### F

Fast forward/reverse 254
Fastening the seat belts
Fastening the seat belts 29
Floor Mats 112
Fog Lamps - Front
Front Fog Lamps 56
Fog Lamps - Rear
Rear Fog Lamps 57
Four-Wheel Drive 123
Four-wheel drive, high range
(4H) 123
Four-wheel drive, low range
(4L) 124
Shifting between 2H and 4H 124
Shifting between 2H and 4L 124
Shifting between 4H and 4L 124
Two-wheel drive, high range
(2H) 123
Front Fog Lamps 56
Control lever 56
Front Seats
Adjusting the angle of the seatback
(Electric seats) 102
Adjusting the angle of the seatback
(Manual seats) 99
Adjusting the height of the driver's
seat (Electric seats) 101
Adjusting the height of the driver's
seat (Manual seats) 99
Adjusting the lumbar support 98
Folding the seat backrest
(Bench seat Regular cab) 100
Moving the seats backwards and
forwards (Electric seats) 101
Moving the seats backwards and
forwards (Manual seats) 98
Tilting the seat (Electric seats) 102
Fuel and Refuelling 118

### F

Fuel Consumption	122
Fuel filler flap	120
Filling	121
Vehicles equipped with cap	
system	120
Fuel Quality - Diesel	119
Long-term storage	
Fuel Quality - Petrol	118
Fuse Box Locations	159
Engine compartment fuse	
Engine compartment fuse box160,	161
<b>e</b> 1	161
box 160,	
box	164
box	164 161
box	164 161
box	164 161 161

# G

Gauges 73
Engine coolant temperature
gauge 73
Fuel gauge 73
Gearbox
Transmission 123
General Driving Points 148
Vehicles with a diesel engine 148
General Information on Radio
Frequencies

# H

Handbrake	
Parking Brake	131
Hazard Warning Flashers	59

# H

HDC
Hill descent control (HDC) 132
Head Restraints 103
Adjusting the head restraint 103
Removing the head restraint 103
Headlamp Levelling 58
Heated Seats 105
Heated Windows
Heated windows
Heating
Air-Conditioning 88
Hill descent control (HDC) 132
Principle of Operation 132
Using Hill Descent Control 132
Hill Launch Assist 136
Principle of Operation 136
Hints on Driving With Anti-Lock
Brakes 131
HLA
ПLA

### I

Ignition Switch
Ignition Switch 113
Immobiliser
Engine immobiliser 42
Important audio information 233
Audio unit labels 233
Disc labels 233
Information Displays 83
General Information
Instrument Cluster 73
Instrument Lighting Dimmer 106
Interior Lamps
Courtesy lamp 60
Interior Mirror
Introduction 1

# Index

# I

iPod
Using an iPod 290
iPod connection
Connecting an external device 286
ISOFIX Anchor Points 16
Attaching a child restraint with a top
tether 16

# J

Jump starting	
Jump-Starting the Vehicle	190
Jump-Starting the Vehicle	190
To connect the booster leads	190
To start the engine	190

### K

# L

Lighting 54
Lighting Control 54
Approach lamps 54
Emergency stop signal 54
Headlamp flasher 54
High and dipped beam 54
Lighting control positions 54
Load Carrying 146
General Information 146
Load Retaining Fixtures 147
Load rest
Rope hooks 147
Loading the navigation data
Loading the navigation data 224

# L

Locking and Unlocking
Child play protection function 39
Driver configuration mode 40
Locking and Unlocking 38
Locking and unlocking the doors
from inside 39
Locking and unlocking the doors with
the key 38
Locking and unlocking the doors with
the remote control 38
Locking the doors individually with
the key 40
Locks

### Μ

Maintenance
General Information 168
Maintenance 168
Scheduled 183
Technical Specifications 182
Manual Air-Conditioning 89
Air distribution control 89
Blower
Recirculated air 90
System settings
Temperature control
Manual Transmission 123
Selecting reverse gear 123
Map updates 232
Message Centre
Information Displays 83
Mirrors
Interior mirror 72
MP3 connection
Connecting an external device 286
MP3 display options 259
CD text display options 259

# M

. 256
. 257
. 258
. 256
. 257
. 258
. 257
. 257

# N

Navigation introduction	217
General Information	217
Navigation Quick start	219
Vehicles with SD navigation	
system	219
Navigation system	228
Navigation unit overview	221
Vehicles with SD navigation	
system	222
News broadcasts	

# 0

Occupant protection	. 20
Principle of Operation	. 20
Oil Check	
Engine Oil Check	177
On/off control	245
Opening and Closing the Bonnet	169
Closing the bonnet	170
Opening the bonnet	
Overhead Console	

### P

Parking Aids	138
Principle of Operation	138

### Р

Parking Brake 131
Parts and Accessories 2
Personalised Settings 86
Language setting
Units of measure
Power Steering Fluid Check 179
Topping up 179
Power Windows 68
Driver's door switches
(Double cab) 68
Driver's door switches
(Regular and Freestyle cab) 69
Front and rear passengers' door
switches 69
Opening and closing the windows
automatically
(Driver's window only) 69
Resetting the memory of the electric
windows 69
Safety mode 70
Safety switch for the rear
windows 69
Programming the remote control
Programming a new remote
control 35
Programming the additional key 36
Programming the remote control 35
Reprogramming the unlocking
function

# R

Rear Fog Lamps	. 57
Rear Seats	104
Folding the rear seat cushion	104
Folding the rear seatback - Double	;
cab	104
Rear seat arm rest	105

# Index

# R

Rear View Camera 14	11
Switching the rear view camera	ŧ1
off 14	17
Switching the rear view camera	τ2
on 14	11
Using the display 14	
Reduced Engine Performance	
Refuelling	
Regional mode (REG)	
Remote control battery	) _
Changing the remote control	
battery	7
•	)/
Remote control programming	
Programming the remote control 3	
Repairing Minor Paint Damage	
Repeat compact disc tracks	
Type 1	
Type 2	
Type 3 and 4	
Road Safety	
Safety information 21	
Route displays 22	
Junction zoom 22	
Map display 22	
Navigation display 23	
Route options menu 22	
Driver	
Dynamic 22	
Eco settings 22	
Ferry/motorail 22	
Motorway 22	
Route 22	28
Seasonal roads 22	29
Toll 22	29
Toll sticker 22	29

# R

Running-In	149
Brakes and clutch	149
Engine	149
Tyres	149
Runninglamps	

### S

### S

### Т

Tailgate 1	146
Technical Specifications	
Capacities and Specifications 2	211
Telephone 2	263
General Information 2	263
Using the telephone 2	266
Telephone commands 2	280
Main settings 2	282
Phone 2	280
Phone functions 2	281

### Т

Telephone controls	265
Remote control	265
Telephone setup	263
Bond another Bluetooth®	
phone	264
Making a phone an active	
phone	264
Phonebook	263
Phonebook categories	263
Towing a Trailer	153
Safety chains	156
Trailer brakes	157
Trailer hitch	155
Trailer lights	156
Trailer tow module	156
Trailer towing tips	157
Tyres	155
Weight limits	154
Towing Points	166
Towing the Vehicle on Four Wheels	166
All vehicles	166
Vehicles with automatic	
transmission	167
Track selection	253
Type 2, 3 and 4	253
Type 3 and 4	
Traffic information control	248
Activating traffic	
announcements	248
Ending traffic	
announcements 231,	249
Traffic announcement volume	249
Traffic Message Channel	
Principle of Operation	
Transmission	123
Trip Computer	83
Controls	
Type approvals 293,	294

# Index

# T

Tyre Care	202
Tyre Pressure Monitoring System	204
Tyre Pressures	
Technical Specifications	209
Tyres	
Wheels and Tyres	193

### U

Under Bonnet Overview - MZ-CD
2.2
Under Bonnet Overview - MZ-CD 3.2
15
Under Bonnet Overview - MZI 2.5 171
USB
Using a USB device 287
USB port 111
Using a USB device
Radio 288
SD Navigation units 288
Using an iPod 290
Radio 290
SD Navigation units 291
Using Cruise Control 143
Cancelling the set speed 145
Changing the set speed 144
Resuming the set speed 145
Setting a speed 144
Switching cruise control off 145
Switching cruise control on 143
Using Dynamic Stability Control 135
2-wheel drive vehicles 135
4-wheel drive vehicles 135
Using Hill Descent Control 132
HDC operation 133
Selecting HDC 132
Using seat belts during pregnancy 31

# U

Using Snow Chains
Using Snow Chains 204
Using the Parking Aid - Vehicles With:
Rear Parking Aid 139
Using the telephone 266
Changing the active phone 268
Debonding a bonded phone 268
Making a call 266
Muting the microphone 268
Receiving a second incoming
call
Receiving an incoming call 267
Using TMC 231
Ending traffic announcements 231
Traffic announcement 231
Using TMC messages 231
Using voice control 270
Name tag 271
System operation 270
Using Winter Tyres
Using Winter Tyres 203

### V

Vehicle battery 190
Vehicle Care
Vehicle identification 210
Vehicle Identification Number
Vehicle Identification Number 210
Vehicle Identification Plate 210
Vehicle Loading 152
GAW (Gross Axle Weight) 152
GVW (Gross Vehicle Weight) 152
Vehicle recovery 166
Ventilation
Air-Conditioning 88
Vents
Air Vents 89

### V

VIN

Vehicle Identification Number	210
Voice control	49
Principle of Operation	269

### W

Warning Lamps and Indicators	74
ABS warning lamp	
Airbag warning lamp	75
Brake system warning lamp	74
Cruise control	81
Direction indicators	79
Door open warning lamp	79
DPF (Diesel Particulate Filter)	78
Dynamic stability control	
(DSC) indicator	76
Electronic locking differential	
(ELD) indicator	78
Engine warning lamps	76
Four-wheel drive indicator	77
Four-wheel drive low	
(4L) indicator	77
Front fog lamp indicator	80
Gear shift indicator lamp	
(Manual only)	80
Glow plug indicator - For Diesel	
Vehicle	79
Headlamp indicator	80
High beam indicator	80
Ice/Frost warning indicator	79
Ignition warning lamp	75
Low fuel level warning lamp	75
Oil Change Reminder Indicator	
(Diesel only)	76
Oil pressure warning lamp	
Rear fog lamp indicator	
Seat belt indicator	
Vehicle immobiliser indicator	
Washer fluid level indicator	
Water-in-fuel indicator	
Washer Fluid Check 1	81
Washers	
Wipers and Washers	50

# Index

### W

Washing	
Cleaning the Exterior	188
Waveband button	
Wheels and Tyres	193
General Information	193
Technical Specifications .	209
Windscreen Washers	51
Windscreen Wipers	50
Intermittent wipe	50
Winter Tyres	
Using Winter Tyres	203
Wipers and Washers	50