



**ARTURA**

Owner's Handbook

# Assistance

## Retailer Network

The Authorised McLaren Retailer network is constantly expanding and a full list with contact details can be found at:

[www.retailers.mclaren.com](http://www.retailers.mclaren.com)

In the event of an emergency, call your local emergency telephone number.

For non-emergency assistance, contact your nearest Authorised McLaren Retailer.

Contact details for McLaren Client Services can be found at:

<https://cars.mclaren.com/contact-us>

In the unlikely event that you are unable to obtain assistance using the appropriate number(s) listed, you can call the appropriate European assistance number:

The McLaren Assistance number in the UK is Freephone: 0800 975 8285.

The McLaren Assistance number in Europe is Freephone: 00800 4886 4887.



**NOTE:** If you have problems contacting us on the Freephone number while in Europe please call on: +33 472 172 519.  
Please be aware that standard charges for this call will apply.



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# Introduction

## Introduction

Please read this information to familiarise yourself with your McLaren and its features before you drive. This provides the necessary information for you to get the optimum benefit and enjoyment from your McLaren.

This publication describes all options and features available for your McLaren. Certain descriptions, including those for display and menu functions, may not apply to your vehicle due to model variant, country specifications, optional equipment or the fitment of McLaren approved accessories.



**NOTE: The images shown in this publication may not exactly reflect your unique vehicle.**

The documents supplied with your McLaren are an integral part of the vehicle. Ensure that you pass them onto the new owner if you sell the vehicle.

The information is divided into specific sections, to assist in finding the particular information you require:

### Before You Drive

Details the settings you need to make in the cockpit to ensure you are fully prepared and have safe and easy access to all controls before driving.

### Driving Controls

This section contains detailed information regarding the equipment and driving controls fitted to your McLaren and how to use those controls to best effect during a journey.

### Instruments

This section contains information on the Driver Display, including information on how to operate features of the McLaren Infotainment System (MIS).

### Central Display

This section contains information on the McLaren Infotainment System (MIS), including information on how to view and change vehicle settings.

### Comfort and Convenience

Contains information on those systems and features which make the cockpit a pleasant environment in which to spend time.

### Maintaining your McLaren

Information on maintaining your McLaren is located here. Also included is advice on using your McLaren in winter weather and if you choose to drive your vehicle abroad, what to do if something should go wrong and how to manage any possible problems which arise as a result. Information on fuses, lights and what to do if you experience a puncture is also included in this section.

### Vehicle Data and Glossary

Refer to this section when you need information regarding the fluid specifications and quantities that are required for the various systems on your McLaren, or when you need to know a specific piece of data relating to your McLaren or its performance.

The technical glossary contains a brief explanation of some of the more complex systems fitted to your McLaren. Your McLaren Retailer will be able to assist should you need more information.

### Index

The table of contents and the index will help you find information quickly, when you need it.

# Introduction

## Information about this document

McLaren is constantly updating its vehicles to meet and exceed the latest technologies. McLaren therefore reserves the right to introduce changes in design, equipment and technical features at any time.

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The equipment fitted to your McLaren may vary from the images shown depending on vehicle and market specification.

All information, illustrations and specifications in our applications are based on data available and are correct at the time of issue. The availability of options may vary from market to market due to local restrictions and regulations. Some illustrations in these applications may not necessarily reflect the specifications or options available in your local market and may show optional equipment.

The specifications contained in these applications are for information purposes only and McLaren Automotive reserves the right to change product specifications at any time without notice or incurring obligation. For full specification details and information on standard and optional equipment, please consult your McLaren Retailer.

The information contained in this publication was correct at the time of print. Subsequent vehicle design changes may result in updated information being released. In some cases this updated information may be sent to your vehicle Over The Air (OTA), see Over-the-air (OTA) software updates, page 4.48. The latest information for your vehicle can also be viewed online at:

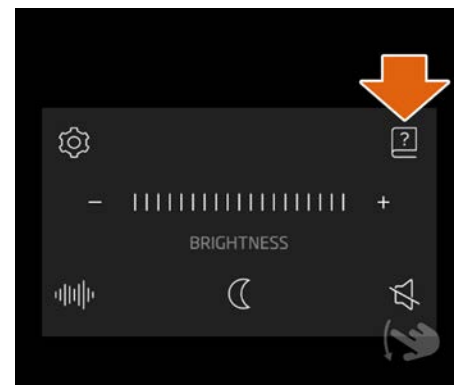
[cars.mclaren.com/en/ownership/service-and-maintenance/owners-handbook](https://cars.mclaren.com/en/ownership/service-and-maintenance/owners-handbook)

This vehicle may be covered by patents. See [cars.mclaren.com/patents](https://cars.mclaren.com/patents).

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## Electronic user manual

Your vehicle is fitted with an electronic user manual, the Owner's Handbook is available on the Central Infotainment Touchscreen.



To access the manual, swipe down on the status bar at the top of the McLaren Infotainment System (MIS) screen then touch the Owner's Handbook icon.

# Introduction

 **NOTE:** This feature cannot be accessed when the vehicle is in motion. The electronic user manual is only available when the vehicle is stationary, to prevent the driver from being distracted.

 The home icon appears at the top and bottom of each page. Selecting the home button will return you to the main contents page.

 These icons can be used to navigate to the previous or next topic as required.

Select 'Related Topics' to quickly access the other information within the current section.

 This icon can be used like a web browser back button, to go back to the previous view.

## Symbols

You will find the following symbols in this Owner's Handbook. These symbols are intended to give you an instant visual message on what type of information is being displayed.

| Warnings                                                                          |                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | A warning draws your attention to activities that could cause injury or death.                                                                                                               |
| Notes                                                                             |                                                                                                                                                                                              |
|  | Notes draw your attention to activities that contain possible risks to your McLaren, provide advice that you may find useful, or give additional information regarding a particular subject. |
| Environmental notes                                                               |                                                                                                                                                                                              |
|  | Environmental notes give you tips on minimising the impact that you and your vehicle have on the environment.                                                                                |

## Operating safety

 **WARNING:** The electronic systems fitted to your McLaren interact with each other. Tampering with these systems could cause malfunctions in other interconnected systems. Such faults could seriously endanger the operational safety of your McLaren and your own safety. Additional work or modifications made to the vehicle, which have been carried out incorrectly can also affect its operating safety.

### Vehicle use

Observe the following when using your McLaren:

- The safety notes throughout this information
- Road traffic laws and regulations

 **WARNING:** There are various warning labels attached to your McLaren. These are intended to make you and others aware of various risks. Do not remove any warning labels from the vehicle.

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**If you remove these warning labels, you or others may not then be aware of dangers, which may result in an injury.**

## Ground clearance

 **WARNING: Damage to the underside of the vehicle may occur when approaching steep inclines or declines.**

Drive with care when:

- approaching kerbs.
- approaching steep inclines.
- departing steep declines.
- driving on rough roads.
- driving in areas where traffic calming measures have been deployed.
- driving in any other environment where sudden change of road surface height or elevation are encountered such as car parks.

See Vehicle dimensions, page 7.06.

## Track driving

To achieve optimum performance and reliability, it is important to ensure the following preconditions are met before attempting to drive your vehicle on a track:

- Engine oil is at normal operating temperature
- Engine oil level is correct, see Checking the engine oil, page 6.04
- Engine coolant is at normal operating temperature
- Tyres should not exceed the safe operating temperatures

 **NOTE:** Before you use your vehicle on a track, consult your McLaren retailer. McLaren recommend that your vehicle is inspected before and after track use.

 **NOTE:** Always drive within your limits and the limits of the vehicle.

## Cooling down

McLaren recommend that you take time to cool the vehicle down during track driving, due to the high temperatures that may be generated by the brakes and transmission which could affect performance. Time should be taken to drive the vehicle at a slower speed without using hard braking or carrying out excessive gear changes, this uses the airflow to cool the vehicle.

McLaren recommend that time is allowed for your vehicle to return to normal operating temperatures before leaving the track.

 **NOTE:** When stopping the vehicle directly after performance driving, McLaren recommend that the ignition is not immediately switched off or parking brake applied. McLaren recommend that the engine is left to idle prior to the ignition being switched off.

 **NOTE:** Please refer to your Service and Warranty Guide for track and competition use implications.

# Introduction

## Stored data

There are a number of components in your vehicle which collect data and store it temporarily or permanently. This technical data provides information relating to areas such as the condition of the vehicle, any events which have taken place and any malfunctions your vehicle may be experiencing or has experienced in the past.

These include, for example:

- operating conditions of system components, e.g. fluid levels.
- the vehicle's status messages and those of its individual components, e.g. 'Windscreen washer fluid low'.
- malfunctions and defects in important system components, e.g. 'Light switch fault'.
- vehicle reactions and operating conditions in special driving situations, e.g. air bag deployment.
- ambient conditions, e.g. outside temperature.

This data is of an exclusively technical nature and can be used to:

- assist in recognising and rectifying faults and defects.
- analyse vehicle functions, e.g. after an accident.
- optimise vehicle functions.

The data cannot be used to trace the vehicle's movements.

When your vehicle is serviced, technical information can be read from the vehicle including:

- repair service history.
- warranty events.
- quality assurance.

This information can be read by employees of the service network (including manufacturers) using special diagnostic testers. More detailed information can be obtained from it, if required.

After a fault has been rectified, the information is deleted from the fault memory or is continually overwritten.

When operating the vehicle, situations may occur where technical data, in connection with other information, could be traced to a person.

Examples include:

- accident reports.
- damage to the vehicle.
- witness statements.

McLaren will not access your behaviour related information about a crash event or share it with others except:

- with the consent of you or, if the vehicle is leased, of the lessee.
- in response to an official request of police or similar government office.
- as part of the manufacturer's defence in case of legal proceedings.
- as required by law.

In addition, McLaren may use the collected or received diagnostic data:

- for McLaren research needs.
- to make it available for research needs where appropriate confidentiality is maintained and need is shown.



## Introduction

- to share summary data which is not tied to a specific vehicle with other organisations for research purposes.



## Before You Drive

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# Before You Drive

## Opening and Closing

### General

The vehicle can be unlocked or locked either by using the keyless entry feature, or by pressing the appropriate button on the key fob.

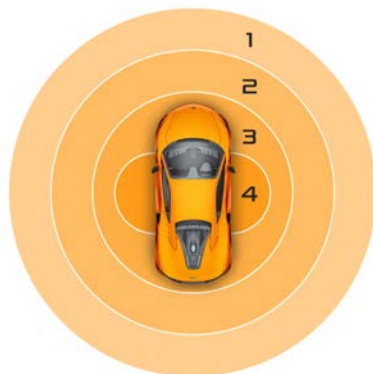
The keyless entry feature requires the key fob to be within 1.2 m (3 ft 11 in) of a door.

Provided that the engine is not running, the vehicle can be locked irrespective of the electrical status, see Vehicle electrical status, page 2.04.

### Keyless entry

Keyless entry allows the user to unlock and disarm the vehicle by simply approaching the vehicle. The key fob needs only to be on the user's person or in a non-metallic container such as a bag. It does not need to be exposed or handled. The vehicle will unlock and the alarm will be disarmed when the key fob is within 1.2 m (3 ft 11 in) of a door.

Keyless entry and keyless exit must be activated in the security settings, see Security, page 4.15.



Sensors detect the location of the key fob around the vehicle, in the following zones:

1. Remote key fob lock and unlock range.  
The vehicle can be locked and unlocked using the buttons on the key fob anywhere within this range, see Key fob entry, page 1.02 and Locking a door, page 1.06.
2. 10 m (32 ft 10 in) - Key detection zone.  
As you approach the vehicle using the keyless entry feature, the McLaren Infotainment System (MIS) and Driver Display will begin to wake up.
3. 5 m (16 ft 5 in) - Keyless lock zone.

As you walk away from the vehicle using the keyless exit feature, it will automatically lock, arm the alarm and flash the direction indicators, see Locking a door, page 1.06.

4. 1.2 m (3 ft 11 in) - Keyless door unlock zones.

When you reach these zones using the keyless entry feature, the door will automatically unlock, the anti-theft alarm system will be deactivated and the the direction indicators will flash. The door can then be opened, see Opening a door, page 1.04.

### Key fob entry

Your McLaren includes two remote control key fobs. The key fob allows you to remotely lock and unlock the vehicle.

**i** **NOTE:** To prevent theft, only use the key fob in the immediate vicinity of the vehicle.

The key fob locks and unlocks the following:

- The doors
- The luggage compartment
- The fuel filler cover

# Before You Drive

## Opening and Closing

- The HV charging port cover



To unlock the vehicle, using the key fob, press the unlock button. The front, rear and side direction indicators (market specific) flash twice and the anti-theft alarm system will be deactivated.

The unlock button operation changes depending whether the **Driver's door** or **Both doors** is selected in the vehicle settings, see Security, page 4.15.



**WARNING:** The key fob allows the vehicle to be started and is also used to activate other features on the vehicle.  
**Take the key fob with you, every time you leave the vehicle.**



**NOTE:** Do not expose the key fob to high levels of electromagnetic radiation. Doing so may cause it to function incorrectly. For example close proximity to laptops, tablets, personal media players, or mobile phones.

| Unlock Button | Outcome                                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Single Press  | If <b>Both doors</b> is selected, a single press of the button unlocks both doors.                                                                        |
|               | If <b>Driver's door</b> is selected, a single press of the button unlocks the driver's door. A second press (after a pause) unlocks the passenger's door. |
| Double Press  | If <b>Both doors</b> is selected, a double press of the button unlocks both doors and unlatches the driver's door.                                        |
|               | If <b>Driver's door</b> is selected, a double press of the button will unlock and unlatch the driver's door only.                                         |

## Before You Drive

### Opening and Closing

#### Stowing the key fob

For security, it is recommended that the key fob stays on your person when you are in the vehicle. If, however, you wish to stow the key fob within the vehicle, ensure that it is not left in plain view.

The key fob can be stored in the pocket located on the front edge of the driver's seat.

#### Discharged battery

If you experience a fully discharged battery, the vehicle can still be opened using the mechanical key, see Unlocking - discharged battery, page 6.32.

#### Opening a door



1. Press the handle (1) firmly to unlatch the door.

**WARNING:** Always stand to the rear of the door before opening it, as the opening action may cause injury. The speed that the door opens will be affected by ambient temperature.

**NOTE:** Because the door opens outwards and then upwards, ensure sufficient side and overhead clearance before opening a door, see Vehicle dimensions, page 7.06.

2. The door latch will then release, the mirrors will unfold if folded and the door will be allowed to be partially raised before it automatically swings outwards and upwards.

**NOTE:** When the door is opened, the window will lower slightly. It will raise to the closed position once the door is shut. If the window does not lower, for example, due to a discharged battery or freezing temperatures, take care when opening and closing the door. Do not force the door during opening or closing, as this could lead to the door seals or window becoming damaged.

**NOTE:** If the vehicle is unlocked using the key fob but the doors or luggage compartments are not opened, the vehicle will relock after 30 seconds.

## Before You Drive

### Opening and Closing

**i** NOTE: If you are unable to unlock the vehicle or open the door because the vehicle battery or key fob battery has become discharged, use the mechanical key. See Unlocking - discharged battery, page 6.32.

#### Closing a door

Push/pull the door downwards and ensure that it latches securely.



**WARNING:** Keep hands and other objects clear of the door edge when closing. This is particularly important for vehicles fitted with soft close latches as the door will automatically continue to the fully closed position when the first catch has engaged. There is no anti-trap feature preventing the door closing if an item or body part is trapped between the door and the door aperture, serious injury and vehicle damage may occur.



**NOTE:** Do not force close the door, the door aperture or door seals could be damaged.

If the window does not close, this may be due to an anti-trap event. Try one of the following:

- Reopen and close door



In the event of continuous anti-trap events, press the lock button for a few seconds. The window will continue to raise until you remove your finger from the lock button. Only attempt this if the above methods do not resolve the problem.



**NOTE:** Do not force the door closed, the door seals or window could be damaged.

## Before You Drive Opening and Closing

### Locking a door



1. Close the door. See Closing a door, page 1.05.
2. To lock the vehicle using the key fob, press the lock button. The front, rear and side direction indicators (market specific) flash in a rapid, circular sequence around the vehicle. The anti-theft alarm system is activated.
3. If using the keyless exit feature, the vehicle will automatically lock as you walk more than 5 m (16 ft 5 in) away from the vehicle. See Keyless entry, page 1.02.

4. The direction indicators flash to indicate that the anti-theft alarm system is activated.

**i** NOTE: When the door is opened the door glass will lower slightly to avoid contact with other parts of the vehicle. When the door is closed the glass will raise to the closed position automatically. If for any reason the door glass does not raise it is likely that the system has sensed a “trap” event. This can be caused by debris in the glass channel or misalignment of the glass. Ensure there are no obvious signs of debris in the glass channel, and hold the lock button. The glass will raise providing the door is correctly closed and there are no obstructions preventing it raising. If the glass does not close, or the glass repeatedly fails to automatically raise, contact your McLaren retailer.

**i** NOTE: If the key is locked in the luggage compartment, the luggage compartment lid will automatically unlatch and open slightly when the vehicle is locked.

### Mislock



If either of the doors are open, or the key fob is still inside the vehicle, the horn will sound indicating mislock when an attempt to lock the vehicle is made.

Check that the doors are closed, then relock the vehicle.



## Before You Drive

### Opening and Closing

**i** NOTE: The vehicle can be locked/alarmed with the luggage compartment open. A long tone sounds to alert you to this condition, and differs to the short tone sounded for door open/key fob in vehicle mislock. The luggage compartment will become alarmed as soon as the luggage compartment lid is closed. This allows you to connect a McLaren supplied battery charger to the charging point in the luggage compartment whilst leaving the rest of the vehicle locked.

### Individual settings

If you frequently travel without passengers, you can change the locking system so that only the driver's door is unlocked, see Security, page 4.15.

If only the driver's door has been configured to unlock, the passenger's door can only be unlocked by either pulling the passenger's door internal handle, pressing the unlock button on the key fob again or by unlocking the vehicle from the central locking button located on the dashboard.

### Locking and unlocking from inside



1. Press the central locking button to lock the vehicle, the light in the button will illuminate to indicate that the vehicle is locked. A door can be opened from inside the vehicle.
2. Press the central locking button again to unlock the vehicle and the light in the button will be extinguished.

## Before You Drive

### Opening and Closing

#### Opening a door from inside

A door can be opened from inside the vehicle at any time, even if it has been locked. Open the doors only if the vehicle is stationary and road and traffic conditions permit.

- i** NOTE: Because the door opens outwards and then upwards, ensure sufficient side and overhead clearance before opening a door.



Pull door handle upwards, in direction of arrow, and push the door outwards until the opening mechanism takes over. The door will then swing outwards and upwards automatically.

- i** NOTE: Unlocking the vehicle using the door handle while the key fob is not within the vehicle will activate the anti-theft system and may cause the alarm to sound.
- i** NOTE: If you are unable to open the door because the vehicle battery or key fob battery has become discharged, use the manual door release strap. See Door opening from inside - discharged battery, page 6.33.

#### Luggage compartment

- !** **WARNING: Do not exceed luggage compartment maximum load. See Vehicle weights, page 7.07.**
- i** NOTE: The luggage compartment will only open if the vehicle is stationary and neutral is selected. A message will display on the Driver Display if the luggage compartment is open when pulling away.
- i** NOTE: When the luggage compartment is unlatched or open, gear selection will be inhibited. Press and hold D or R for 5 seconds to override this and select a gear if there is a need to manoeuvre the vehicle.
- !** **WARNING: Only manoeuvre the vehicle at low speed if a luggage compartment is open or unlatched as the driver's view may become obscured.**

## Before You Drive Opening and Closing

### Opening



Press and hold the luggage release button on the key fob, the luggage compartment will fully unlock and open slightly.



Alternatively, press and hold the dashboard button to fully unlock and slightly open the luggage compartment.

Lift the front of the luggage compartment lid, the gas struts will support it in the fully open position.

### Closing

Pull the luggage compartment lid down firmly and ensure that it is latched securely.

- i** NOTE: Do not leave the key fob in the luggage compartment, as the vehicle may lock, and you may be locked out of the vehicle.

- i** NOTE: If the vehicle had previously been locked, it will still be locked and the direction indicators will flash as the lid closes.

The luggage compartment will become alarmed as soon as the luggage compartment lid is closed.

- i** NOTE: The vehicle can be locked/alarmed with the luggage compartment open. This will allow you to charge the 12V battery while leaving the rest of the vehicle locked. A long tone sounds to alert you to this.

## Before You Drive

### Opening and Closing

#### Service cover

##### Opening

 **WARNING:** The service cover can be very hot and there is a risk of severe burns. Only open the service cover once it has cooled down.

 **WARNING:** The exhaust tail pipes can be very hot and there is a risk of severe burns. Only open the service cover from the side of the vehicle.

 **WARNING:** There is a risk of injury if the service cover is open, even when the engine is not running. Engine components become very hot and there is a risk of severe burns. The engine ignition system carries a high voltage. Never touch ignition system components; ignition coils, ignition wiring (spark plug connections).

1. Remove the service cover release tool from the tool kit. See Service cover release tool, page 6.15.



2. Insert the service cover release tool into the latch, push down as shown and the latch will release.



3. From the side of the vehicle, lift the service cover. The hinge will support the cover in the raised position.

See Engine oil, page 6.04.

See Coolant, page 6.06.

##### Closing

 **WARNING:** The exhaust tail pipes can be very hot and there is a risk of severe burns. Only close the service cover from the side of the vehicle.

## Before You Drive Opening and Closing



1. Close the service cover and apply pressure as shown, a positive click will be heard when the latch engages.
2. Ensure the service cover is secure once closed.

### Automatic locking

The doors and the luggage compartment locks automatically after the vehicle has driven away.

**i** NOTE: The doors unlock automatically in an accident if the force of the impact exceeds a predetermined level.

The automatic locking function is selectable in the security settings section of the Central Infotainment Touchscreen, see Automatic door locking, page 4.15.

If automatic locking is ON, the interior central locking button will illuminate once the vehicle locks on drive away.

# Before You Drive

## Anti-Theft System

### Alarm system

A visual and audible alarm is triggered if the alarm system is armed and any of the following are opened:

- A door
- The luggage compartment lid

**i** **NOTE:** The alarm remains triggered even if you close the open aperture. To silence the alarm, unlock the vehicle.

The alarm system also incorporates the following features:

- Tow-away protection
- Interior motion detection sensor

### Arming the alarm system

Lock the vehicle (using the keyless system or the key fob). The anti-theft alarm system will be armed after approximately 15 seconds.



The light in the central locking button will illuminate for approximately 60 seconds after locking the vehicle, the light will continue to flash beyond this time.

### Disarming the alarm system

Unlock the vehicle (using the keyless system or the key fob), the alarm will disarm and the light in the central locking button will stop flashing.

### Immobiliser

The immobiliser prevents your McLaren from being started by an unauthorised person.

The vehicle is automatically immobilised when it senses that there is no key fob present in the vehicle.

Remobilisation occurs when a key fob is sensed inside the vehicle.

**i** **NOTE:** Immobilisation will only occur if the vehicle has not been started.

## Before You Drive Anti-Theft System

### Tow-away protection

Tow-away protection is designed to prevent any attempt to steal the vehicle by suspended tow or lifting onto a trailer.

The alarm is triggered if the vehicle is raised or tilted in any way.

Tow-away protection is armed approximately 15 seconds after the vehicle has been locked and is disarmed when the vehicle is unlocked.

#### Disabling tow-away protection



1. To disable tow-away protection, switch off the ignition, open the driver's door and press the button on the rear edge of the driver's door. The light in the switch will illuminate to indicate that tow-away protection has been disabled.

**i** **NOTE:** You cannot disable tow-away protection if the ignition is switched on.

2. Close the driver's door and lock the vehicle (using the keyless system or the key fob). Tow-away protection remains disabled until you unlock the vehicle.

### Interior motion sensor

The alarm is triggered if your vehicle is locked and movement is detected inside, e.g. if someone breaks a window or reaches into the vehicle through an open window.

The interior motion sensor is armed approximately 15 seconds after the vehicle has been locked and is disarmed when the vehicle is unlocked.

**i** **NOTE:** To prevent false alarms close the windows when leaving the vehicle and do not hang anything on the interior mirror.

## Before You Drive Anti-Theft System

### Disabling the interior motion sensor



1. To disable the interior motion sensor, switch off the ignition, open the driver's door and press the button on the rear edge of the driver's door. The light in the switch will illuminate to indicate that the interior motion sensor has been disabled.

**i** NOTE: You cannot disable the interior motion sensor if the ignition is switched on.

2. Close the driver's door and lock the vehicle. The interior motion sensor remains disabled until you unlock the vehicle.

### Panic alarm

The panic alarm function is designed to attract attention by sounding the horn and flashing the direction indicator lamps repeatedly.

The panic alarm can be switched on by pressing the hazard warning lamps button for a period of 3 seconds or more.

The horn will cease after the panic alarm has been active for 60 seconds, but the direction indicator lamps will continue to flash. The horn can be re-initiated by pressing the hazard warning lamps button for a period of 3 seconds or more.

To switch the panic alarm off, press the hazard warning lamps button briefly.

**i** NOTE: The panic alarm will also sound as warning to exit and stay clear of the vehicle when a hybrid system fault exists.



## Before You Drive Seats

### Safety

 **WARNING:** Do not leave children unattended in the vehicle, they could be injured if a seat is moved accidentally.

 **WARNING:** Ensure that no one can become trapped as the seat moves. To reduce the risk of injuries in the event of an accident, observe the following:

- All vehicle occupants must select a seat position that allows the seat belt to be worn correctly, but is as far away from the front air bags as possible. The position of the driver's seat must allow the driver to drive the vehicle safely. The distance from the driver's seat to the pedals must be such that the driver can fully depress the pedals. The distance between the driver's chest and the centre of the air bag cover must be more than 25 cm (10 in). The driver's arms should be slightly bent when holding the steering wheel.
- Vehicle occupants must always wear their seat belt correctly.

- Position the passenger's seat as far back as is comfortable.

 **WARNING:** McLaren does not recommend the use of child seats in this vehicle, but if you choose to do so, please follow the guidelines below:

- Children under 1.5 m (4 ft 11 in) tall or younger than 12 years of age must be secured in a suitable child restraint. Please refer to current national and local laws for specific requirements.
- If you are using a child restraint on the passenger's seat, move the seat as far back as possible.

### Manual seats

 **NOTE:** The electrical adjustment controls for the driver's seat will only operate while the vehicle is stationary.

Manual seat forward and rearward adjustment



Lift the lever, move the seat to the desired position and release the lever to lock the seat.

 **WARNING:** Ensure the seat is locked in position before driving.

## Before You Drive Seats

**i** NOTE: Ensure that there are no items of luggage in the footwell or behind, underneath or to the side of the seats. This may lead to the seats being damaged.

### Manual seat height and backrest rake adjustment



Press the switch up (1) to raise the seat height and also move the backrest forwards.

Press the switch down (2) to lower the seat height and recline the backrest.

### Manual seat lumbar adjustment



Move the lumbar control switch upwards (1) to raise or downwards (2) to lower the position of the lumbar support.

Move the lumbar control switch forwards (3) to inflate or backwards (4) to deflate the lumbar support.

### Electric seats

**i** NOTE: The electrical adjustment controls for the driver's seat will only operate while the vehicle is stationary.

### Electric seat adjustment

The seat adjustment switches are on the side of the seat base and can be used when the vehicle is in any awake mode, see Vehicle electrical status, page 2.04.

**i** NOTE: Ensure there are no items of luggage in the footwell or behind, beneath or to the side of the seats, or the seats may be damaged.

## Before You Drive Seats

### Forward and rearward adjustment



Press the switch (1) forward or rearward until the seat reaches the desired position.

### Electric seat backrest rake adjustment

**WARNING:** To minimise the risk of injury, position the backrest as close as possible to vertical.

**i** **NOTE:** When reclining the backrest, the seat base will automatically move forward, depending on its position relative to the rear bulkhead. If the seat base is moved backwards when the backrest is fully reclined, the backrest will automatically raise to prevent contact with the rear bulkhead.



Press the switch (2) forward or rearward until the backrest is in the required position.

**WARNING:** Ensure there are no items beneath the passenger's seat or the occupant classification system may not function correctly.

### Electric seat height adjustment



Press the switch (1) up or down until the seat reaches the desired height.

## Before You Drive Seats

### Electric seat lumbar adjustment



Press (1) to raise or (2) to lower the position of the lumbar support.

Press (3) to inflate or (4) to deflate the lumbar support.

### Storing and recalling a seat position

The driver's seat, exterior mirrors, and steering wheel positions can be stored for up to five drivers.

See Driving Positions, page 1.21.

### Comfort exit



**WARNING: Ensure that no one can become trapped as the seat moves.**

The driver's seat will move fully rearwards and to its lowest position and the steering wheel will move inwards and to its highest position when the engine is off and the driver's door is opened.

This assists exit from the vehicle.

See Comfort Entry/Exit, page 4.11 settings to enable or disable this feature.

### Comfort entry

After entering the vehicle, you can return the driver's seat and steering wheel to their most recent position using the control stalk on the left of the steering column. The vehicle must be stationary.

The Driver Display welcome screen will display a prompt to restore the last saved driving position - pull the left-hand control stalk to accept this. The driver's seat, steering column and exterior mirrors will automatically adjust.

Comfort entry can be aborted by carrying out any of the following:

- Push the left-hand control stalk
- Open the drivers' door

- Manipulate the seat or steering column adjustment controls

See Comfort Entry/Exit, page 4.11 settings to enable or disable this feature.

### Heated seats

Heated seats can be accessed using the climate control screen on the Central Infotainment Touchscreen. See Heated seats, page 5.09.

# Before You Drive

## Steering Wheel and Steering Column

### Steering column adjustment

**WARNING:** Only adjust the steering wheel position when the vehicle is stationary. You may not be able to observe road and traffic conditions. This could lead to you losing control of the vehicle which may result in an accident.

The steering wheel position may be adjusted for height and reach using the column control switch when the vehicle is in any awake mode, see Vehicle electrical status, page 2.04.

The column control switch is located on the left-hand side of the steering column.



1. Height: Raise
2. Height: Lower
3. Reach: Away
4. Reach: Towards

Moving the column control switch in directions 1 & 2 adjusts the steering wheel height, raising or lowering the wheel's position.

Moving the column control switch in directions 3 & 4 adjusts the steering wheel reach, moving it closer or further away.

**NOTE:** The column control switch will only adjust the steering wheel in one direction at a time.

Using the column control switch, position the steering wheel so that:

- your arms are slightly bent when you hold the wheel.
- you can move your legs freely.
- you can see all the information on the Driver Display clearly.

### Comfort entry/exit

When enabled, comfort entry/exit allows the steering wheel and column will move fully inwards (away from the driver) and to its highest position when the engine is off and the driver's door is opened.

You can return the steering wheel and column to its most recent position using the control stalk on the left of the steering column. See Comfort entry, page 1.18.

**WARNING:** Ensure that your hands are kept clear of the wheel and column as the steering wheel moves.

## Before You Drive

### Steering Wheel and Steering Column



NOTE: Any automatic movement can be cancelled with any input from the column control switch.

#### Horn

Press the centre of the steering wheel to operate the horn.



NOTE: The horn cannot be operated when the ignition is switched off, but can be operated in Awake mode. See Vehicle electrical status, page 2.04.

# Before You Drive Driving Positions

## Overview



Touch the Driving Positions icon on the McLaren Infotainment System (MIS) Home screen.



## Storing a driving position

Up to five driving positions can be saved.

1. Set the driver's seat position as required, see Electric seats, page 1.16.
2. Set the steering column position as required, see Steering column adjustment, page 1.19.
3. Set the exterior mirrors position as required, see Exterior mirrors, page 1.31.
4. Touch and hold on a driving position slot to save the current positions.

5. Touch the  icon to edit the name of the driving position using the on-screen keyboard.

 **NOTE:** Driving positions cannot be deleted individually. Carry out a factory reset in order to restore all driving position labels to their default values, see Erase all data and settings, page 4.20.

## Recalling a driving position

Touch one of the saved driving positions to recall the driver's seat, steering column and exterior mirror positions. The selected driving position will be highlighted to show that the positions have been adjusted.

# Before You Drive

## Driving Positions



During start up, if comfort entry/exit has been enabled, the Driver Display welcome screen will display a prompt to restore the last saved driving position. Pull the left-hand control stalk to accept this prompt and the driver's seat, steering column and exterior mirrors will automatically adjust. See Comfort Entry/Exit, page 4.11 settings to enable or disable this feature.



## Before You Drive

### Occupant Safety

#### Seat belts

Seat belts and child restraint systems are the most effective means of restraining vehicle occupants from impact forces, which minimises the danger of injury from interior impacts and the effects of whiplash.

 **WARNING:** A seat belt which is not worn, worn incorrectly, or has not been engaged fully in the seat belt buckle, cannot perform its intended function. To avoid injuries, ensure that all vehicle occupants wear their seat belt correctly at all times.

Ensure that the belt:

- is routed as low as possible across your pelvic area, i.e. across your hip joints and not across your abdomen.
- fits closely.
- is not twisted.
- is routed across the middle of your shoulder.
- lies flat across the mid point of the collar bone between the neck and shoulder.
- fits closely across your pelvis by pulling the shoulder belt upwards.

Do not secure any objects with a seat belt if the seat belt is being used by a vehicle occupant.

Avoid wearing bulky clothing.

Do not route the belt across sharp edged or fragile objects especially if these are on or in your clothing. The seat belt could be damaged and you could be injured.

Only one person should use each seat belt at any one time.

Never allow children to travel on the lap of another occupant.

Children under 1.5 m (4 ft 11 in) tall or younger than 12 years of age must be secured in a suitable child restraint. Follow the manufacturer's instructions when installing child restraint systems. Please refer to current national and local laws for specific requirements.



**WARNING:** Pregnant women should wear a seat belt to ensure maximum safety of mother and unborn child. Position the lap belt across the hips, beneath the abdomen and position the shoulder belt between the breasts and to the side of the abdomen. Ensure the belt is not slack or twisted.



**WARNING:** The seat belt only provides its intended degree of protection if the seat backrest is positioned close to vertical, and the occupant is sitting upright.



**WARNING:** The seat belt cannot perform its function correctly if the seat belt or buckle becomes excessively dirty or damaged. Ensure the belt latch engages the buckle fully. Check the seat belts regularly to ensure that they are not damaged, or routed over sharp edges and are not trapped. The belt could tear in an accident, causing injury to occupants.

## Before You Drive Occupant Safety

**Have seat belts checked if the belts have been damaged or subjected to a heavy load. Work on the seat belts should only be carried out by your McLaren retailer.**

### Wearing a seat belt



1. Ensure that you are seated comfortably and the controls are within easy reach.
2. Grasp the seat belt latch and pull across the body, ensuring that the belt lies flat across the mid point of the collar bone between the neck and shoulder, then across the chest and pelvis.

3. With the belt correctly positioned insert the latch into the buckle and press until a click is heard to confirm engagement.

Check engagement by attempting to pull the latch from the buckle.

### Seat belt tensioners

The seat belts incorporate belt tensioners. Belt tensioners apply tension to the seat belts in an accident, pulling them tight against the occupant.

**WARNING:** Do not insert the belt latch into the passenger's seat belt buckle if the passenger's seat is unoccupied. The belt tensioners could be triggered in an accident.

**WARNING:** Belt tensioners do not correct an incorrect seating position or incorrectly worn seat belts. Belt tensioners do not pull occupants back towards the backrests.

The belt tensioner will be triggered for each seat belt, provided the belt latch is engaged in the seat belt buckle, if a head-on or rear-end collision occurs and the vehicle decelerates or accelerates rapidly.

If the belt tensioners are triggered, a bang will be heard, a small amount of dust may be released and the supplementary restraint system warning light will illuminate.

**WARNING:** Once triggered (or if you are unsure if they have triggered) you **MUST** not drive the vehicle. Contact your nearest McLaren retailer immediately.

### Belt force limiters

The seat belts incorporate belt force limiters. Belt force limiters are tuned to the front air bags and gradually release the tension being applied to the belts during an impact, reducing the force exerted on occupants.

### Seat belt warning light



The seat belt warning light on the Driver Display and a warning tone reminds vehicle occupants to fasten their seat belts. The seat belt warning light extinguishes and the warning tone ceases when the driver and passenger have fastened their seat belt.

## Before You Drive Occupant Safety

### Supplementary restraint system (SRS)

#### Air bag system

Your McLaren is equipped with the following air bags:

- Driver's front air bag in the steering wheel
- Passenger's front air bag in the upper area of the dashboard
- Side head air bags in the doors

**WARNING:** Correct operation of the air bags can only occur if the steering wheel, the passenger's air bag cover and the door trim are not covered.

**WARNING:** Air bags are not a substitute for correctly worn seat belts, they enhance the level of occupant protection offered by seat belts.

**WARNING:** To reduce the risk of injuries in the event of an accident, observe the following points:

- Ensure that the driver's chest is at least 25 cm (10 in) from the air bag cover.

- Do not lean forward over the dashboard while the vehicle is in motion.
- Do not rest your feet on the dashboard.
- Only hold the steering wheel by the outside of the rim. You could be injured if the air bag deploys and you are holding the inside of the steering wheel.
- Occupants, particularly children, must not lean on the doors from inside the vehicle.
- Ensure that there are no other objects between the vehicle occupants and the deployment area of the air bags.
- Because of the high speed at which air bags deploy, there is a risk of injuries caused by an inflating air bag.

#### Air bag replacement

**WARNING:** McLaren recommend that air bags are replaced every 15 years to prevent air bags from not firing due to component operating life.

#### Air bag system modification

If it is necessary to modify the air bag system to accommodate a person with disabilities, please contact your nearest McLaren retailer. For more information on McLaren retailers, please refer to your Service and Warranty Guide.

#### Front air bags



The driver's front air bag (1) deploys in front of the steering wheel and the passenger's front air bag (2) deploys in front of and above the dashboard.

## Before You Drive Occupant Safety

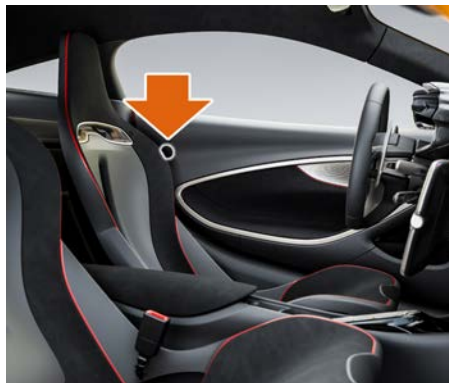
The front air bags are deployed if the system determines they can offer additional protection for occupants against head and chest injuries.

**i** NOTE: The passenger's front air bag is only deployed if the PASSENGER AIR BAG OFF warning light on the overhead console is NOT illuminated, see Occupant classification system - passenger's seat, page 1.26.

### Side head air bags

**!** WARNING: To reduce the risk of injury to occupants if a side head air bag is deployed, ensure that:

- there are no other objects between the vehicle occupants and the deployment area of the air bags.
- no accessories are attached to the doors.
- no heavy or sharp objects are left in the pockets of clothing.
- occupants, particularly children, must not lean on the doors from inside the vehicle.



The side head air bags are located in the upper area of each door panel, and are deployed if the system determines they can offer additional protection for the head of the occupant on the side of the vehicle on which the impact occurs.

**i** NOTE: The passenger's side head air bag is only deployed if the passenger's seat is occupied.

### Occupant classification system - passenger's seat

The system can determine if the passenger's seat is occupied using a capacitance mat fitted in the seat base, and by checking the seat belt buckle engagement on the passenger's seat belt. The system will deactivate the passenger's front air bag for children in child seats and unoccupied passenger's seat ensuring air bag deployment for adults.



The status of the air bags is indicated by the PASSENGER AIR BAG OFF warning light on the overhead console.

## Before You Drive Occupant Safety

The PASSENGER AIR BAG OFF warning light illuminates when the ignition is switched on and extinguishes after 5 seconds.

The warning light will remain illuminated if the passenger's seat is unoccupied or if a child seat is fitted.

 **NOTE:** The PASSENGER AIR BAG OFF warning light is always illuminated unless the passenger's seat is occupied by an adult.

If the PASSENGER AIR BAG OFF warning light is illuminated, the passenger's front air bag is not active. The side head air bag and the belt tensioner on the passenger's side remain active even if the PASSENGER AIR BAG OFF warning light is illuminated.

 **WARNING:** If the PASSENGER AIR BAG OFF warning light is not illuminated when the child seat is fitted, the passenger's air bag is not deactivated. The child could be seriously injured if the passenger's air bag inflates.

 **WARNING:** To ensure that the occupant classification system functions correctly, McLaren recommend that objects are not placed under a seat. McLaren also recommend that additional materials are not applied such as a blanket, cushion, or aftermarket equipment such as a seat cover, heater, or massager. These items can seriously affect how well the occupant classification system operates. McLaren recommend that aftermarket equipment such as covers, heaters, and massagers are NOT used.

 **WARNING:** Any electronic devices that are either active or connected to the 12V accessory socket should not be placed on the passenger's seat. They can affect how the occupant classification system operates.

 **WARNING:** The occupant classification system may become affected if any form of liquid (inclusive of rain) is spilled onto the passenger's seat. If the PASSENGER AIR BAG OFF warning light is not illuminated when the seat is unoccupied, do not install a child restraint or allow anyone to occupy the seat. Please contact your nearest McLaren retailer at your earliest convenience.

 **WARNING:** Do not place sharp objects onto the passenger's seat. These may damage the occupant classification system if they puncture the seat cushion.

## Before You Drive Occupant Safety



**WARNING: To ensure that the occupant classification system functions correctly, never place objects (e.g. a cushion) under the child restraint system. The entire base of the child restraint system must be in contact with the seat at all times. If a child restraint system is not fitted correctly it may not provide the intended degree of protection in the event of an accident and may cause injuries.**

### Air bag deployment

In the event of a collision, the air bags are deployed by the supplementary restraints system to protect the vehicle occupants. The system can control the number of air bags deployed and partially or fully inflate the air bags depending on the severity of the collision to provide the best possible protection to the vehicle occupants.

The system uses sensors to rapidly evaluate the collision severity and the number of vehicle occupants. Once all these factors are known, the system will then deploy the necessary air bags and regulate the inflation pressure in the impact zone to ensure the occupant's safety.

After an accident, the air bags begin to depressurise almost immediately after the inflation process has taken place. The gas used to inflate the air bags escapes through vents in the air bag and this helps reduce the occurrence of major impact injuries to the occupants.

An air bag slows down and restricts the movement of the vehicle occupant reducing the load on the body, but is not a substitute for a correctly worn seat belt.



**WARNING: If the air bags are deployed, a bang will be heard and a small amount of fine powder may be released. The noise will not damage your hearing and the powder does not constitute a health hazard nor does it imply that a fire has broken out. This powder could cause short term breathing difficulties for persons suffering from asthma or other respiratory conditions. To prevent breathing difficulties, leave the vehicle as soon as possible or open a window.**



**WARNING: After an air bag has been deployed, air bag parts are hot, do not touch them. Have the air bags replaced at your McLaren retailer.**

### Out of position (OOP)

The air bag system in your McLaren has been tested for the correct small child out of position (OOP) operation. OOP can occur if a small child is incorrectly positioned in the passenger's seat in the event of a collision in which the air bags are deployed.

### Supplementary restraint system (SRS) warning light



The supplementary restraint system performs a self-test at regular intervals when the ignition is switched on and the engine is running.

The warning light on the Driver Display illuminates when the ignition is switched on and extinguishes 5 seconds after the engine is started.



**WARNING: Contact your McLaren retailer immediately should any of the following occur:**

- The warning light does not illuminate when you switch on the ignition
- The light does not extinguish 5 seconds after the engine is running
- The light illuminates again, after the engine has started

# Before You Drive

## Occupant Safety

### Safety features

If you are unfortunate enough to be involved in an accident, the following events will occur to assist you and any recovery personnel:

- The doors will unlock
- The hazard warning lights will switch on
- The interior lighting will switch on

In some instances, the fuel system will also be switched off.

### Child passengers



**WARNING: Do not leave children unsupervised in the vehicle even if they are secured in a child restraint. Children could injure themselves on parts of the vehicle, open a door and be seriously or even fatally harmed by prolonged exposure to heat or cold.**

**If children open a door, they could cause injury to others in doing so or get out of the vehicle and possibly injure themselves or they could be injured by a passing vehicle.**

**Do not expose the child restraint system to direct sunlight. The metal parts of the child restraint system could burn the child.**

**Do not carry heavy or hard objects inside the vehicle unless they are secured.**

**An unsecured or incorrectly positioned load increases the risk of injury to the child during sharp braking, a sudden change of direction or an accident.**

### Child restraint system

McLaren does not recommend the use of child seats in this vehicle, but if you choose to do so, please follow the guidelines below:

Secure any child under 1.5 m (4 ft 11 in) tall or younger than 12 years of age travelling in the vehicle in an appropriate category restraint according to their weight. Contact your McLaren retailer for advice.

Please refer to current national and local laws for specific requirements.



## Before You Drive Occupant Safety

 **WARNING:** Never secure a rearward facing child restraint system on the passenger's seat if the passenger's front air bag is active. The status is indicated by the PASSENGER AIR BAG OFF indicator.

 **WARNING:** If the PASSENGER AIR BAG OFF indicator does not illuminate, do not use a rearward facing child restraint system on the passenger seat. You may use a forward-facing child restraint system on the passenger's seat. The warning label on the passenger's side is there to remind you of this.

 **WARNING:** If a forward facing child seat is fitted to the passenger's seat, make sure that the passenger's seat is fully rearwards and is positioned at the lowest height. A manual passenger's seat does not have height adjustment.

 **WARNING:** If the child restraint system has not been fitted correctly, the child cannot be restrained in an accident or sudden braking and could be injured. When fitting a child restraint system, observe the manufacturer's instructions on the correct use of the child restraint.

### KISI child restraint function

Your McLaren is fitted with a KISI system which is an automatic locking seat belt on the passenger's side designed to temporarily lock the seat belt to securely hold the child restraint in the passenger's seat.

1. Extend the passenger's seat belt fully. The KISI system only engages when the seat belt is fully extended.

 **NOTE:** If the vehicle is parked on a hill, the inertia lock may prevent the seat belt from extending. If this occurs, release the seat belt slightly and continue to extend the seat belt carefully to avoid the engagement of the inertia lock.

2. Pass the seat belt through the child restraint as described by the child restraint manufacturer and engage the belt latch in the buckle.
3. Adjust the belt so that the lower section is tight against the restraint and allow the upper section to retract. The KISI system will click as the belt retracts.
4. When the seat belt has retracted as far as possible, pull on the upper section to check that the seat belt has locked.

 **NOTE:** The KISI system will disengage when the seat belt has fully retracted and can then be worn as a normal seat belt. Once the KISI system has unlocked, it will be necessary to fully extend the seat belt to engage the KISI system the next time a child restraint is used.



## Before You Drive Mirrors

### Safety

 **WARNING:** Before driving, adjust all mirrors to give the best possible view of road and traffic conditions.

### Interior mirror



The automatic dimming function of the interior mirror is automatically activated and cannot be manually deactivated.

When activated, the interior mirror will automatically dim when bright light is detected by the light sensor.

If reverse gear is selected or if ambient light levels are high, the automatic dimming function will be deactivated.

### Exterior mirrors

 **WARNING:** In some markets, the exterior mirrors have convex glass fitted. This type of mirror enlarges the field of vision, but reduces the size of the image. This means that objects are closer than they appear. To avoid misjudging the distance to vehicles travelling behind and perhaps causing an accident, check the actual distance of the vehicle, before changing direction.

The exterior mirrors control is located on the dashboard between the steering wheel and the centre console.

## Before You Drive Mirrors

### Adjusting mirrors



1. Switch the ignition on.
2. Rotate the control to the left (1) to adjust the left-hand mirror or to the right (2) to adjust the right-hand mirror.
3. Move the control up, down, left and right to adjust the mirror to the desired position.

### Exterior mirror fold

1. Switch the ignition on.
2. Rotate the control to position (3) to fold the mirrors.

3. To unfold the mirrors rotate the control away from position (3).

**i** NOTE: If the switch remains in position (3) the mirrors will be folded until the switch is moved.

### Exterior mirror automatic fold

The exterior mirrors fold automatically when the vehicle is locked. Unfolding occurs as a door is opened, not when the vehicle is unlocked. This feature can be enabled or disabled in the settings, see Auto-fold mirrors, page 4.11.

### Mirror dipping in reverse

The exterior mirrors can be set to dip when reverse is engaged. This provides a view of the ground to the rear of the vehicle. See Parking, page 4.12. This feature can be enabled or disabled in the settings, see Reverse mirror dip, page 4.12.

### Heated mirrors

Exterior mirrors are heated when the heated rear window is in operation. They are also heated when the ambient temperature is below 5°C (41°F). See Heated rear window, page 5.10.

# Before You Drive Lighting

## Exterior lighting



1. Headlamp high beam
2. Headlamp dipped beam
3. Side direction indicator
4. Direction indicator/Daytime running lamp/Sidelamp



1. Licence plate lamp
2. Stop Lamp/Tail lamp
3. Central high mounted stop lamp
4. Direction indicator
5. Reflector
6. Reverse lamp and rear fog lamp

## Light switch

**⚠ WARNING:** The lights do not switch on automatically in foggy conditions. Automatic light control is only an aid, you are responsible for the vehicle's lighting at all times.

The light switch is located between the steering wheel and the driver's door and has the following positions.



At position (0), the lights are off with the exception of daytime running lamps and tail lamps.

## Before You Drive Lighting

Rotate the control to position (A) for automatic light control.

Rotate the control to position (1) for sidelamps or position (2) for headlamps. The sidelamp warning light illuminates on the Driver Display.

### Automatic light control

The sidelamps and dipped beam headlamps are switched on automatically when ambient light falls below a predetermined level.

To switch on automatic light control, turn the light switch to position (A).

**i** NOTE: If the vehicle detects rain whilst the light switch is set to position (A) the dipped beam headlamps will switch on automatically, regardless of current external light levels.

**i** NOTE: With the light switch in position (A) and the rear fog lamp switched on, the dipped beam headlamps will also switch on irrespective of ambient light conditions. When the rear fog lamp is switched off, the dipped beam headlamps will also switch off dependent on ambient light conditions.

### Sidelamps

The sidelamps and the daytime running lamps are a combined series of light-emitting diodes located below the headlamp. The sidelamps operate at a lower intensity than the daytime running lamps, see Daytime running lamps, page 1.36.

The sidelamps, tail lamps and licence plate lamps illuminate when the light switch is turned to position (1).



The sidelamp notification light on the Driver Display illuminates.



NOTE: The dipped beam headlamps will also switch on automatically if ambient light falls below a predetermined level.

### Dipped beam headlamps

To switch on the headlamps, turn the light switch to (2).



The dipped beam notification light on the Driver Display illuminates.



NOTE: On your McLaren, the same headlamp dipped beam setting applies for driving on either the left-hand or right-hand side of the road.

### High beam headlamps



To switch to high beam, push the stalk away from you.



The high beam headlamp notification light illuminates on the Driver Display.

Pull the stalk towards you, to revert to dipped beam.

### Headlamp flash

Pull the stalk fully towards you.

The high beam headlamps operate for as long as the stalk is held.

## Before You Drive Lighting



The high beam headlamp notification light illuminates on the Driver Display.

### Auto High Beam Assist

When activated, the Auto High Beam Assist feature automatically deactivates the main beam headlamps when required, due to environmental conditions and to avoid glaring other road users. The main beam headlamps will be automatically reactivated when conditions allow.



**WARNING: Auto High Beam Assist is no substitute for safe driving with due care and attention. The driver remains responsible at all times.**

The feature can be enabled or disabled in the Advanced Driver Assistance System (ADAS) app, see Driver assistance, page 2.36.



When the feature is enabled, rotate the light switch to position (A) or (2) and push the stalk away from you to activate it. Pull the stalk back towards you to deactivate the feature.



**NOTE:** The Auto High Beam Assist feature will not operate when the stalk is pulled fully towards you in the flash position.



The high beam headlamps notification light illuminates on the Driver Display when Auto High Beam Assist is active and the high beam headlamps are illuminated.



The dipped beam notification light illuminates when Auto High Beam Assist has automatically deactivated the main beam and activated the dipped beam headlamps.

The stalk can be used to manually deactivate the main beam headlamps.

The following may have an effect on the operation of Auto High Beam Assist:

- Poor weather conditions, for example, fog, heavy rain, heavy spray, snow or ice
- Roads where oncoming traffic is partly obscured by a central barrier
- Poorly lit road users, for example, cyclists
- Undulating roads or roads with tight bends
- Poorly lit, built up areas and areas with highly reflective road signs
- The camera view is obscured by stickers or due to dirty, misted or frozen windscreen
- The camera view is dazzled by light reflected by thick fog



**NOTE:** The Auto High Beam Assist feature only operates at vehicle speeds above 35 mph (57 km/h) and is automatically deactivated at 16 mph (27 km/h).

# Before You Drive Lighting

## Headlamps

### Dynamic Bending Lights



With the headlamps on, the Dynamic Bending Lights adjust the beams when cornering, providing improved illumination in the direction of travel.

### Motorway Function lighting

The Motorway Function lighting improves the headlamp illumination range when the vehicle speed exceeds a predetermined threshold.

## Daytime running lamps

Your McLaren is fitted with daytime running lamps which, along with the tail lamps, illuminate automatically when the ignition is switched on even if all lights are switched off. The sidelamps and the daytime running lamps are a combined series of light-emitting diodes located below the headlamp. The daytime running lamps operate at a higher intensity than the sidelamps.

## Rear fog lamp

 **WARNING:** The lights do not switch on automatically in foggy conditions.

 **NOTE:** The rear fog lamp only operates when the light switch is in position (A) or (2).



Press the rear fog lamp button in the centre of the light switch.

 The rear fog lamp notification light on the Driver Display and the light in the switch both illuminate.

## Before You Drive Lighting

**i** NOTE: With the light switch in position (A) and the rear fog lamp switched on, the dipped beam headlamps will also switch on irrespective of ambient light conditions. When the rear fog lamp is switched off, the dipped beam headlamps will also switch off dependent on ambient light conditions.

### Direction indicators



Push the direction indicator/main beam stalk downwards (1) to switch on the left-hand direction indicator.

Push the direction indicator/main beam stalk upwards (2) to switch on the right-hand direction indicator.



The corresponding notification light on the Driver Display will flash.

The stalk returns to its rest position as the steering wheel returns to its central position.

Indicating to the left or right will disable the lane departure warning in that direction, for the duration of the manoeuvre. See Lane Departure Warning, page 2.38.

### Direction indicators - lane change

Move the direction indicator/main beam stalk until resistance is felt when changing lanes on a motorway. The appropriate direction indicator flashes three times.

For further information about the lighting see Light switch, page 1.33.

## Before You Drive Lighting

### Hazard warning lamps

The hazard warning lamps operate even if the ignition is switched off. As a safety feature, they switch on automatically when an air bag is deployed.

#### Operating the hazard warning lamps



1. Press the hazard warning lamps button.
2. All the direction indicator lamps and both direction indicator warning lights on the Driver Display flash.
3. Press the hazard warning lamps button again to switch off.

**i** NOTE: If the hazard warning lamps have been switched on automatically, press the hazard warning lamps button once to switch them off.

### Parking lights



**i** NOTE: The parking lights can only be activated when the ignition is switched off.

1. To activate the parking lights, press the left-hand stalk down for the left-hand side or push up for the right-hand side until resistance is felt. The selected parking lights will illuminate once the vehicle has been locked.



## Before You Drive Lighting

2. To deactivate the parking lights, press the left-hand stalk down for the left-hand side or push up for the right-hand side until resistance is felt. The selected parking lights will then be deactivated.

 NOTE: To activate the parking lights on both sides, press the left-hand stalk down then up. To deactivate, press the left-hand stalk down then up again.

# Before You Drive Washers and Wipers

## Windscreen wipers



1. Windscreen wiper off
2. Automatic wipe
3. Slow wipe
4. Fast wipe



**NOTE:** Switch off the windscreen wiper in dry weather, dirt can cause inadvertent wiper sweeps which could damage the wiper blades or windscreen.

## Operating the windscreen wipers

1. Ensure the ignition is switched on.
2. Move the wiper stalk to the required position.

## Automatic wipe

A rain sensor, located on the windscreen behind the interior mirror, measures the quantity of water on the windscreen and operates the wiper at the most appropriate speed.

To select, move the windscreen wiper stalk to the automatic wipe position (2).

The wiper will wipe once. The wipe frequency then depends on how wet the windscreen is.

Only select the automatic wipe position in damp weather conditions or when it is raining.

To adjust the sensitivity of the rain sensor, see Wiper sensitivity, page 4.11.

## Slow wipe

Move the wiper stalk to position (3), to operate the wiper at slow speed.

Return the stalk to position (1) to switch off.

## Fast wipe

Move the wiper stalk to position (4), to operate the wiper at fast speed.

Return the stalk to position (1) to switch off.

## Single wipe



1. For a slow single wipe, briefly push the wiper stalk down and release. The wiper will operate once at slow speed, without washers.

## Before You Drive Washers and Wipers

- For a fast single wipe, push and hold the wiper stalk down. The windscreen wiper will perform a continuous fast wipe until the stalk is released.

### Windscreen wash/wipe



Pull the wiper stalk towards you.

The windscreen washers and wiper will initially operate at a slow speed while the stalk is held.

When the stalk is released, the wiper will complete its cycle and return to the parked position. After a period of time the wiper will operate once more to wipe any remaining washer fluid from the windscreen. If the vehicle is travelling at high speed, the wiper will operate an additional wipe to clear the windscreen.

**i** **NOTE:** The position of the washer jets are set during vehicle manufacture and should not need adjusting. If a problem occurs, consult your McLaren retailer.

### Wiper park positions

In addition to the normal park position, there are two alternative positions.

Ensure the vehicle is in Locked, Sleep or Awake mode.

Pull the wiper control stalk towards you, the wiper will move through the following park positions each time the stalk is pulled:

### Winter park

The wiper is parked vertically to reduce the risk of damage to the wiper arm during periods of heavy snowfall and provide access for easier cleaning of accumulated snow.

### Service park

The wiper is parked diagonally to provide access for replacing the wiper blade, see Replacing the wiper blade, page 6.36.

### Normal park

The wiper is parked horizontally along the lower edge of the windscreen.

# Before You Drive

## Nose Lift

### Nose lift

**i** NOTE: If the nose lift icon on the Driver Display is amber, or a nose lift fault message appears on the Driver Display, the system is not available. Do not drive the vehicle at high speed and contact your McLaren retailer as soon as possible.

The nose lift feature offers the following options:

- Nose lift - Raise, page 1.42
- Nose lift - Lower, page 1.43

Nose lift gives you the option to raise or lower the nose of the vehicle dependent on the current ride height.

The nose height can only be raised when travelling at speeds below 31 mph (50 km/h). The nose will automatically lower at speeds above 37 mph (60 km/h).

**i** NOTE: The suspension can be left fully raised for extended periods, but it may relax to a lower level over time.

If the nose is left in a raised position for a long period, a system reset may occur when the engine is next started to return the nose to normal ride height.

If nose lift is used when in motion, slight adjustments to the steering feel may be experienced, this is normal and does not affect the operation of the vehicle.

**i** NOTE: Nose lift is only available when the ignition is on.

**i** NOTE: Nose lift will be unavailable if launch mode is active.

### Nose lift - Raise

**!** **WARNING: On no occasion should nose lift be used as a jacking system. Using nose lift to access below the vehicle may result in serious injury.**

**i** NOTE: When the vehicle is at normal ride height, you will only have the option to raise the nose of the vehicle.

**i** NOTE: Nose lift will be delayed if the vehicle experiences any excessive steering wheel input.

**i** NOTE: Always check the nose lift icon on the Driver Display before driving your vehicle.



To raise the nose of the vehicle, press the button on the dashboard.



The change in nose ride height is confirmed by an ascending audible tone and the nose lift icon on the Driver Display will flash.

If the ignition is switched off while the nose is raising, the system will stop and continue to raise only when the ignition is switched back on.

To change from raise to lower, press the button on the dashboard. The nose will start to lower, and the icon displayed on the Driver Display will confirm the change.

## Before You Drive

### Nose Lift

When the nose is fully raised, an audible confirmation tone is heard and the nose lift icon on the Driver Display is illuminated while the nose remains raised.

#### Nose lift - Lower

- i** NOTE: To lower the nose while stationary, the ignition must be on.
- i** NOTE: When the nose is raised, you will only have the option to lower the nose of the vehicle.
- i** NOTE: Do not drive at high speed whilst the nose is lowering. If the nose begins to auto lower, a descending audible tone will be heard.
- i** NOTE: Always check the nose lift icon on the Driver Display before driving your vehicle.



To lower the nose of the vehicle, press the button on the dashboard.



The change in nose ride height is confirmed by a descending audible tone and the nose lowering icon on the Driver Display will flash.

To change from lower to raise, press the button on the dashboard. The nose will start to raise, and the icon displayed on the Driver Display will confirm the change.

When the nose is lowered, an audible confirmation tone is heard and the vehicle lowering icon on the Driver Display extinguishes.









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# Driving Controls

## Starting and Driving

### Vehicle electrical status

The vehicle will implement one of the following statuses.

**i** NOTE: The engine can be started from any of the following states, except Locked. If the vehicle is in Sleep mode, the START/STOP button will need to be pressed for more than 2 seconds.

**i** NOTE: If the vehicle detects the battery charge is getting too low, it will adopt the Awake mode to conserve energy. Ignition will be prohibited, but Crank will still be available. This is to allow the engine to be started so that High Voltage (HV) battery recharging can commence.

#### Locked

Vehicle is locked in low power mode.

#### Sleep

Vehicle is unlocked in low power mode.

#### Awake

Door is opened or START/STOP button pressed, when the vehicle is in Sleep mode.



The welcome screen shows the time, outside temperature, odometer reading, 12V battery level, HV battery level and fuel gauge, selected powertrain and handling modes, and comfort entry on the Driver Display.

**i** NOTE: Comfort entry will only be displayed on the welcome screen if it has been enabled in the settings, see Comfort Entry/Exit, page 4.11.

If the HV battery is currently being charged, the charging status will also be shown.

If there is no further activity after 60 seconds, the vehicle will return to the Sleep mode.

### Ignition

START/STOP button is pressed, when the vehicle is in Awake mode.

Windows and heater/air conditioning controls can be operated. Driver Display menus and McLaren Infotainment System (MIS) are available.

**i** NOTE: There is no timeout with ignition on. Be aware that the battery could become discharged.

### Engine start

See Starting/stopping the vehicle, page 2.09.

# Driving Controls

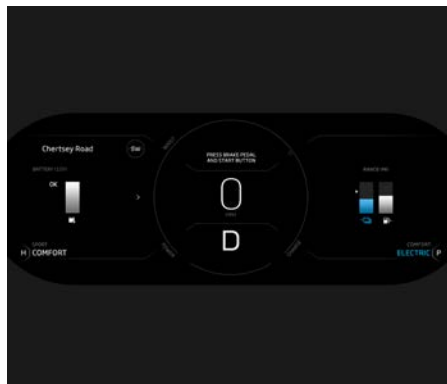
## Starting and Driving

### Switching on the ignition



1. Ensure that the key fob is inside the vehicle.
2. To switch on the ignition without starting the vehicle, press the START/STOP button, without depressing the brake pedal.

**i** NOTE: If the vehicle is in Awake mode, press the START/STOP button twice with the brake pedal released.



3. The ignition will switch on, the oil temperature, water temperature and fuel gauges will operate and several of the warning lights will illuminate as a self-test. The Driver Display will fully illuminate.

### Instruments and warning lights

Warning lights can be divided into different categories, according to the colour that they illuminate.

- RED or AMBER warning light - indicates that a fault has been detected. A fault indicated by a RED light is more important than one displayed in AMBER.
- BLUE or GREEN notification light - indicates that a system or feature is switched on and operating.

### Warning lights

|                                                                                     |                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------|
|  | Tyre pressure monitoring system (TPMS), page 2.32 |
|  | Seat belts, page 1.23                             |
|  | Rear fog lamp, page 1.36                          |
|  | Supplementary restraint system (SRS), page 1.25   |

## Driving Controls

### Starting and Driving

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|  | Electronic stability control (ESC), page 2.30                                                                                                    |
|  | Lane Departure Warning, page 2.38                                                                                                                |
|  | Engine warning light, page 2.12                                                                                                                  |
|  | Anti-lock braking system (ABS), page 2.27                                                                                                        |
|  | Brake pedal, page 2.09<br>Parking brake, page 2.07                                                                                               |
|  | Low oil pressure warning light. If this illuminates, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.   |
|  | Engine coolant hot warning light. If this illuminates, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately. |
|  | No charge warning light. If this illuminates, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.          |

|                                                                                   |                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Electronic stability control system failure warning light. If this illuminates, adapt your driving style while the fault exists. Contact your McLaren retailer.                                  |
|  | Low fuel level warning light. If this illuminates, only 10% fuel is remaining, refuel your vehicle at the soonest opportunity. See Filling with fuel, page 2.57                                  |
|  | Low fuel level warning light. If this illuminates, only 5% fuel is remaining, refuel your vehicle at the soonest opportunity. See Filling with fuel, page 2.57                                   |
|  | Generic failure warning light. A message will be shown on the Driver Display when this is illuminated, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately. |
|  | Generic failure caution light. A message will be shown on the Driver Display when this is illuminated, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately. |

### Notification lights

|                                                                                     |                                  |
|-------------------------------------------------------------------------------------|----------------------------------|
|  | Direction indicators, page 1.37  |
|  | High beam headlamps, page 1.34   |
|  | Auto High Beam Assist, page 1.35 |
|  | Light switch, page 1.33          |
|  | Auto High Beam Assist, page 1.35 |
|  | Light switch, page 1.33          |
|  | Direction indicators, page 1.37  |

## Driving Controls

### Starting and Driving

#### Driver Display overview

The Driver Display is dynamic and the content displayed can be configured to display different information and features. The left-hand carousel menu is configured using the left-hand control stalk, see Carousel menu, page 3.06.

The Driver Display has various layouts designed to support the selected handling and powertrain modes, see Display window, page 3.19. Non-essential content can be hidden, by pushing and holding the left-hand control stalk away from you to activate Stealth mode.

For full details about the Driver Display see Instruments, page 3.01.

#### Seamless shift gearbox gear positions

The gearbox operates in either automatic or manual mode. Automatic mode is selected unless the driver chooses manual mode, see Gear positions, page 2.18 and Manual/automatic mode, page 2.20. If manual mode is active, gear changes are made using the gearshift paddles, see Gearshift paddles, page 2.21.

#### Parking brake



**NOTE:** When parking on steep downhill slopes, turn the front wheels towards the kerb. When parking on steep uphill slopes, turn the front wheels away from the kerb.

#### Parking brake status



If the parking brake applied status light is flashing, the parking brake has failed to engage/disengage. To resolve, engage/disengage the parking brake again. See Parking brake operation, page 2.08.

## Driving Controls

### Starting and Driving

#### Parking brake operation



To engage the parking brake, pull the switch outwards, the red parking brake applied status light on the Driver Display illuminates.

- i** NOTE: The parking brake on your vehicle is electronic and only a light application of the switch is required to engage or disengage the parking brake.



To disengage the parking brake, keep the brake pedal depressed and push the parking brake switch inwards, the red parking brake applied status light on the Driver Display extinguishes.

- ⚠** **WARNING: If the parking brake is manually released, the vehicle may start to move.**
- i** NOTE: If the parking brake is not manually released, it will automatically release as the vehicle is driven off forward, or in reverse as long as the following conditions are met:
  - Driver's door is closed

- Driver's seat belt is buckled
- i** NOTE: If the parking brake is not manually applied it will automatically apply when the engine is switched off.
- i** NOTE: It is only possible to disengage the parking brake with the ignition on. The parking brake can be applied in all ignition states, including vehicle asleep.
- i** NOTE: In the event of total footbrake failure, the parking brake can be applied when the vehicle is moving to slow the vehicle.
- i** NOTE: If the parking brake cannot be disengaged due to electrical failure or battery discharge, see [How to recover the vehicle with a discharged 12V or HV battery](#), page 6.17 and contact your McLaren retailer.
- i** NOTE: If the parking brake cannot be engaged due to electrical failure or battery discharge, use the supplied chock to ensure the vehicle remains stationary. See [Wheel chock](#), page 6.16 and [How to recover the vehicle with a discharged 12V or HV battery](#), page 6.17 and contact your McLaren retailer.



## Driving Controls

### Starting and Driving

#### Brake pedal

**WARNING:** Do not keep any objects in the driver's footwell. Ensure that floor mats or carpets are properly secured and do not obstruct the pedals.

If objects become trapped between the pedals, you may not be able to brake or accelerate, and this could lead to an accident.

**WARNING:** Do not rest your foot on the brake pedal while travelling as this may overheat the brakes, reduce their efficiency and cause excessive wear.

**WARNING:** If the brake warning light illuminates while the vehicle is in motion, stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.

#### Brake discs and pads

**WARNING:** New brake pads require a period of bedding in. For the first 625 miles (1,000 km), avoid situations where heavy braking is required.

Brake disc and pad wear depends on the driving style and driving conditions.

#### Brake warning light

 The brake warning light will illuminate when the ignition is switched on as a system test. If the brake warning light illuminates at any other time, a fault is indicated. Stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.

#### Starting/stopping the vehicle

**WARNING:** Never run the engine when the vehicle is in an enclosed space. Exhaust fumes contain poisonous carbon monoxide. Breathing exhaust fumes could lead to unconsciousness and death.

**NOTE:** Do not depress the accelerator pedal when starting the engine.

#### Starting the vehicle

1. Ensure that the key fob is in the vehicle.



## Driving Controls

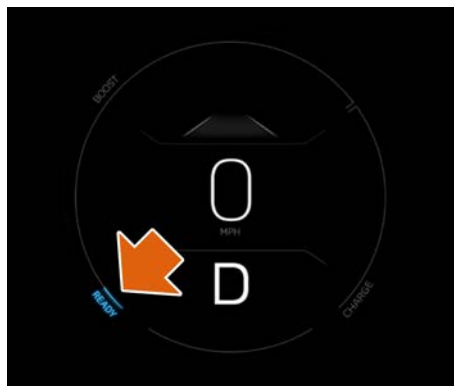
### Starting and Driving

- Depress the brake pedal, press and release the **START/STOP** button and the vehicle will start.

#### Starting in Electric mode

The vehicle defaults to Electric powertrain and Comfort handling modes on startup.

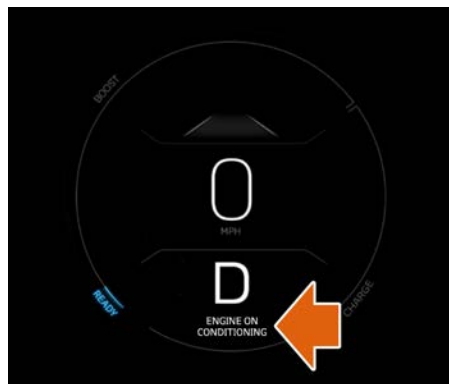
Press the brake pedal and push the **START/STOP** button. The **READY** indicator on the Driver Display shows that electric power is available.



**NOTE:** With the vehicle in Electric mode the engine may start in certain conditions:

- To purge the fuel vapour after refuelling.
- To warm the catalysts to support efficient use of the engine.
- To charge the High Voltage (HV) battery when electric range is depleted.

If the engine starts to warm the catalysts, **CONDITIONING ENGINE** is shown on the Driver Display.



If the engine starts because electric range is depleted, the engine will provide drive to the wheels once the catalysts are warm. However, torque will be limited to that provided by the eMotor and the HV battery level will be sustained. A message displays recommending that you change powertrain mode.

Changing to an alternative powertrain mode will provide access to the vehicle's combined hybrid power and will provide charge to the HV battery.

#### Starting in Hybrid mode

Depending on various conditions, such as throttle input, High Voltage (HV) battery state of charge, catalyst temperature, etc, the vehicle will operate in one of the following Hybrid modes:

## Driving Controls

### Starting and Driving

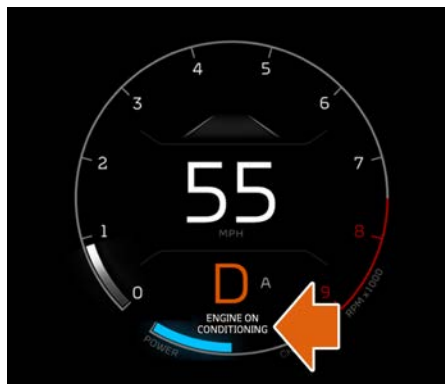
|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| Series Hybrid   | The vehicle is driven by the eMotor with engine power being used for electricity generation. |
| Parallel Hybrid | The vehicle is driven by both the engine and the eMotor.                                     |

To start the vehicle in a hybrid mode:

1. Press the **START/STOP** button without pressing the brake pedal.
2. Select the desired powertrain mode using the powertrain control. See Powertrain control, page 2.24.
3. Press the brake pedal and push the **START/STOP** button.

- i** **NOTE:** The engine will start and warm the catalysts. During this period:
- Drive is provided by the eMotor only. The engine does not provide power or respond to throttle input.
  - The transmission remains in automatic.
  - The tachometer remains at idle.

During this state, the progress bar displays on the Powertrain mode indicator and **CONDITIONING ENGINE** is shown on the Driver Display.



To start the vehicle with full torque and throttle response immediately available, the engine must still be warm from previous use.

### Stopping the vehicle

1. Depress the brake pedal.
2. Select neutral.



3. Press the **START/STOP** button. The engine stops, the vehicle enters Awake mode, see Vehicle electrical status, page 2.04. The immobiliser is activated.

- i** **NOTE:** The parking brake will apply automatically when the engine is stopped. Automatic application can be overridden by holding the parking brake switch in the off position whilst opening the driver's door.

# Driving Controls

## Starting and Driving

### Driving

#### Driving away



**WARNING: Never turn the vehicle off while driving, there will be no assistance for the steering or the foot brake. You will need more effort to steer and brake and could lose control of the vehicle and cause an accident.**



NOTE: Do not drive at high engine speeds until the engine has reached normal operating temperature.



NOTE: The doors will lock when the vehicle reaches a speed of approximately 9 mph (15 km/h). Auto lock can be set on the Central Display, see Automatic door locking, page 4.15.



NOTE: During extensive parking manoeuvres the steering assistance might feel slightly stiffer. This is normal and designed to protect the steering system from overheating.



NOTE: When starting from cold, engine idle speed may be increased and gear changes may occur at higher engine speeds. The catalytic converter will reach its operating temperature quicker and reduce engine emissions.

1. With the engine running or the eMotor on, press and hold the brake pedal.
2. Select drive or reverse gear, or initiate an upshift by operating the gearshift paddles. For more information, see Gearshift paddles, page 2.21 and Gear positions, page 2.18.
3. Keep the brake pedal depressed and release the parking brake switch. The red status light on the Driver Display will be extinguished.



**WARNING: If the parking brake is manually released, the vehicle may start to move.**



NOTE: If the parking brake is not manually released, it will automatically release as the vehicle is driven off forward, or in reverse as long as the following conditions are met:

- All doors are closed

- Driver's seat belt is buckled

4. Carefully depress the accelerator pedal.

#### Engine warning light



This engine warning light illuminates when the ignition is on and extinguishes as soon as the engine is started, provided no faults exist.

If the light illuminates while driving and the message "Engine System Malfunction" appears on the Driver Display, an engine management fault has been detected and reduced engine performance may be experienced. Stop the vehicle as soon as safety permits and contact your McLaren retailer.

If the engine warning light flashes, it indicates that an engine misfire exists, which could cause damage to the catalytic converters. Reduce the engine speed and load until the warning light stops flashing and continue the journey at a moderate speed. Contact your McLaren retailer as soon as possible.

## Driving Controls

### Starting and Driving

#### Limphome mode

Limphome mode activates automatically when vehicle systems detect a fault which may cause further damage unless vehicle or system performance is restricted. Care should be taken while driving in this mode. Contact your McLaren retailer immediately.

#### Economical driving

Improved fuel economy can be achieved by following this advice:

- Accelerate smoothly and gently from a standing start.
- When in manual mode, avoid high engine rpm by changing to a higher gear as soon as possible.



The gear shift indicator (GSI) will illuminate when an upshift would maintain optimum economy.



**NOTE:** Not available in all markets, consult your McLaren retailer.

- Avoid labouring or over-revving the engine.
- Switch off the air conditioning when it is not needed.
- Avoid journeys where frequent stop/start driving is involved.

- Ensure that your driving style suits the prevailing road and traffic conditions; allow time for smooth, progressive acceleration and braking.

#### Exhaust temperature monitoring

The vehicle continuously monitors exhaust temperatures to protect the catalytic converters from damage caused by overheating.

If excessive exhaust temperatures are measured, a warning will be displayed on the Driver Display.

The vehicle speed should be reduced as soon as this message is observed. Refrain from manoeuvres involving high engine speed and high engine load (full throttle) to allow the exhaust to cool. The message will remain until the temperature has reduced.

If the exhaust temperature remains at an excessive level, a second warning is displayed and limphome mode is activated. The engine performance will remain limited until the vehicle is restarted.



**NOTE:** Catalytic converter over temperature warnings are not likely to be observed during normal driving and are the result of extreme operating conditions. For example, high exhaust temperatures can be caused by extended track driving, maintaining high engine speed for long durations, and sudden and repeated changes in throttle demand.

## Driving Controls

### Starting and Driving

**i** NOTE: High exhaust temperatures can cause damage to catalytic converters and should be avoided by practicing careful driving.

If the warnings persist, contact your McLaren retailer.

### Parking sensors



The parking sensors alert the driver to any obstructions while manoeuvring at low speeds. The system comprises four ultrasonic sensors in the front bumper, four ultrasonic sensors in the rear bumper.

The McLaren Infotainment System (MIS) speakers provide localised tones to indicate where there is an obstruction. If multiple objects are detected, multiple speakers will activate to indicate their locations.

The front parking sensors are automatically switched on when the engine is running and drive is selected. The rear parking sensors are switched on when reverse gear is selected. The light around the parking sensors button will illuminate amber to indicate that parking sensors are active.

Front parking sensors can be activated when the vehicle is in neutral and the system is manually turned on.

The centre sensors on the front bumper have a range of approximately 1 m (3 ft). The centre sensors in the rear bumper have a range of approximately 1.5 m (5 ft).

An intermittent tone is heard when an obstruction is within range. As the vehicle moves closer to an obstruction, the frequency of the tone increases. When the distance between the sensors and the obstruction is less than approximately 40 cm (1 ft 6 in), the tone becomes continuous.



**WARNING: The parking sensors may not detect moving objects such as children and animals until they are dangerously close. Always manoeuvre with caution and always use your mirrors, turn your head and look behind you.**

## Driving Controls

### Starting and Driving

**i** NOTE: The parking sensors are for guidance only and are not intended to replace the driver's visual checks for obstructions when manoeuvring. The parking sensors may not detect some obstructions, such as narrow posts or small obstructions close to the ground such as kerbs.

The rear parking sensors are automatically switched off when reverse gear is de-selected. The front parking sensors are automatically switched off when the vehicle speed exceeds 16 mph (26 km/h) and drive is selected. If the parking sensors have been manually activated, by pressing the centre of the button, the front parking sensors will become active again when the vehicle speed reduces to 12 mph (20 km/h).

The parking sensors can be switched off manually by pressing and holding the centre of the button. To remove the parking sensor proximity view from the Central Infotainment Touchscreen press centre of the button when in drive or neutral. The parking sensors cannot be manually switched off if reverse gear is selected. When manually switched off, the light around the button will be extinguished.

When the system has been manually switched off, both the front and rear sensors will still switch on when reverse gear is selected and remain on until drive or neutral is selected again.

If a fault is detected the system will be disabled and message will appear in the Driver Display, the parking sensor button light will flash. If the sensors are obscured by dirt, ice or snow, clean them. If the problem persists, contact your McLaren retailer.

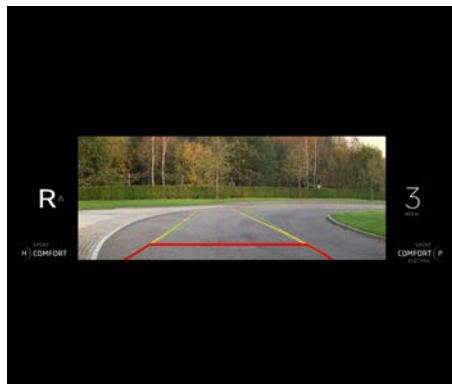
### Rear view camera (RVC)



The rear view camera (RVC) is mounted in the centre of the rear bumper.

## Driving Controls

### Starting and Driving



The live video feed is displayed on the Driver Display when the function is active.

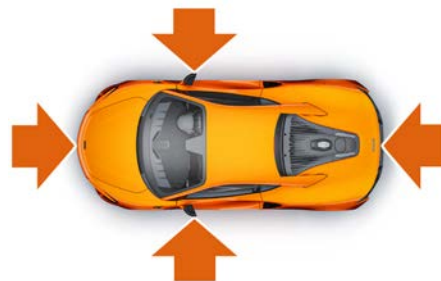
**i** NOTE: If the video feed is blurred or unclear, carefully clean the lens with water and a soft cloth.

Guidelines are fed onto the live video feed as a guide to the proximity of visible objects to the rear of the vehicle. These guidelines can be turned on or off in the "Assistance" settings, see Parking, page 4.12.

**i** NOTE: The rear view camera is for guidance only and is not intended to replace the driver's visual checks for obstructions when manoeuvring. The rear view camera may not show some obstructions in certain ambient light or weather conditions.

The RVC is automatically activated when reverse gear is selected and automatically deactivated 10 seconds after a forward gear is selected, immediately if the vehicle's forward speed exceeds 6 mph (10 km/h) or after the vehicle has travelled 10 m (3 ft 3 in).

### 360 Park Assist



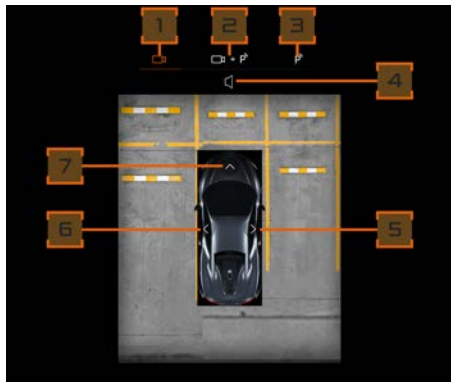
The 360 Park Assist cameras are mounted on the underside of each exterior mirror and the centre of the front and rear bumpers.

360 Park Assist will display a live video showing a 360 degree view around the vehicle in the Central Infotainment Touchscreen.



## Driving Controls

### Starting and Driving



1. 360 video only view.
2. 360 video combined with parking sensor view.
3. Parking sensors only view.
4. Enable and disable the parking sensor sound.
5. Right-hand camera detailed view, displayed in addition to the main view (1) or (2).
6. Left-hand camera detailed view, displayed in addition to the main view (1) or (2).
7. Front camera detailed view, displayed in addition to the main view (1) or (2).

**i** NOTE: If the video feed is blurred or unclear, carefully clean the camera lenses with water and a soft cloth.

360 Park Assist is switched on when reverse gear is selected. The light around the parking sensors button will illuminate amber to indicate that 360 Park Assist and the parking sensors are active.

The 360 Park Assist visual display can be manually activated or deactivated with a short press of the parking sensors button. A long press of the button will deactivate the system and the four front parking sensors. When deactivated, the light around the button will be extinguished.

**i** NOTE: If the exterior mirrors are folded or the doors are open, 360 Park Assist is not enabled and the option on the Central Infotainment Touchscreen will be greyed out.

**i** NOTE: 360 Park Assist is for guidance only and is not intended to replace the driver's visual checks for obstructions when manoeuvring.

When 360 Park Assist has been manually deactivated, it will be reactivated when reverse gear is selected and remain active until drive or neutral is selected again. It can also be reactivated with a short press of the parking sensors button.

# Driving Controls

## Seamless Shift Gearbox

### Overview

The gearbox is an 8-speed, dual clutch seamless shift gearbox that can be operated in automatic or manual mode.

Automatic mode is selected unless the driver chooses manual mode, see Manual/automatic mode, page 2.20.

In automatic mode, the gearbox automatically optimises the shift points to suit your style of driving by selecting the most appropriate gear depending on:

- Powertrain control mode.  
See Powertrain control, page 2.24.
- Accelerator pedal position, page 2.19.
- Vehicle speed.
- Braking effort.

**i** **NOTE:** Allow the engine and gearbox to warm up before driving at high engine speeds and high loads.  
Avoid prolonged spinning of the rear wheels when driving on slippery surfaces as this could damage the drivetrain.

### Gear positions



Press one of the gear position buttons.

**i** **NOTE:** The letter on each button will illuminate red to identify if the vehicle is in Drive, Neutral or Reverse.

#### Drive

**□** All eight forward gears are available. Gear changes will be automatic, unless manual mode has been selected.

When drive is selected and the brakes are released, the vehicle will begin to move slowly without any throttle use, making it useful for parking manoeuvres and for moving off in queuing traffic.

#### Neutral

**N** No gear is engaged. Releasing the brakes will allow the vehicle to move freely, e.g. for pushing or towing. For more information on use of neutral for towing, see Towing for recovery, page 6.48.

Neutral can be selected at any vehicle speed by pressing the N button. Pressing the D button or initiating a shift by operating the gearshift paddles will then select the appropriate gear for the vehicle speed.

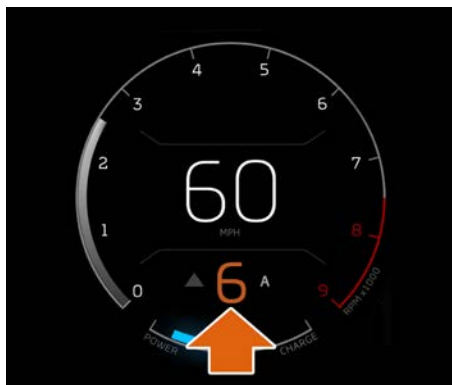
#### Reverse

**R** In normal circumstances, select reverse gear when the vehicle is stationary. When carrying out parking manoeuvres that require rapid changes from drive to reverse and back again, it is possible to engage reverse or drive at speeds up to 6 mph (10 km/h) whilst travelling in the opposite direction.

## Driving Controls

### Seamless Shift Gearbox

- i** NOTE: If reverse or drive is selected at speeds above 6 mph (10 km/h), the transmission will engage neutral, as a self protection feature. When travelling at speeds below 6 mph (10 km/h), neutral can be selected by pressing the N button. When reverse is selected and the brakes are released, the vehicle will begin to move slowly without any throttle use, making it useful for parking manoeuvres. With reverse selected, drive is provided by the eMotor only. The engine may remain on in idle only.



The gear (manual mode) or the gear position (automatic mode) selected will be shown on the Driver Display.

**⚠ WARNING: A warning message will appear on the Driver Display to inform you of the fault. Adapt your driving style while this fault exists, you are responsible for the vehicle's speed at all times. Contact your McLaren retailer.**

- i** NOTE: The gear position will not be displayed if there is a system communication fault. A warning message will appear on the Driver Display to inform you of the fault. Adapt your driving style while this fault exists, you are responsible for the vehicle's speed at all times. Contact your McLaren retailer.

### Accelerator pedal position

Your style of driving influences how the seamless shift gearbox changes gear.

With light accelerator pedal use, upshifts are made at lower engine speeds. With firmer accelerator pedal use, upshifts are made at higher engine speeds.

### Kickdown

Kickdown is designed to achieve immediate acceleration when in automatic mode.

Depress the accelerator pedal fully beyond the pressure point, a click will be felt through the pedal. The gearbox will downshift immediately to the lowest appropriate gear, and maximum acceleration will follow. Once the pedal pressure is released, kickdown will cease and normal gear changes will resume.

- i** NOTE: Moderate accelerator pedal pressure may also cause the gearbox to downshift, depending on vehicle speed.

## Driving Controls

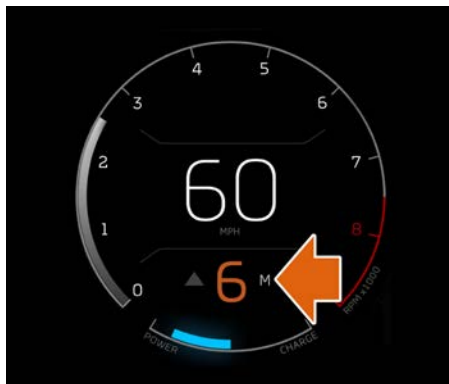
### Seamless Shift Gearbox

#### Manual/automatic mode



**i** NOTE: Manual mode is not available when in Electric or Comfort powertrain mode, where drive is being provided solely by the eMotor. Manual mode is also unavailable when the vehicle is in a hybrid mode and the catalysts are being warmed.

Press the **MANUAL** button to select manual mode.

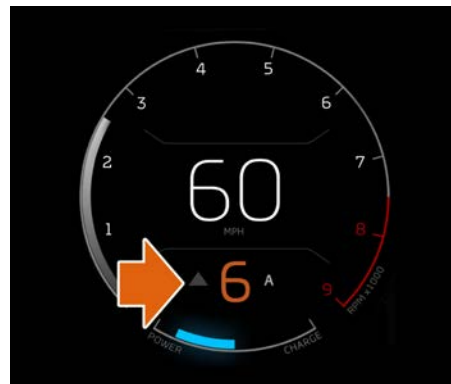


The gearbox mode indicator displays **M** and the currently selected gear. All forward gear changes are made by operating the gearshift paddles, see Gearshift paddles, page 2.21.

Performance shift cue (PSC) is an indicator that will sound to indicate that an upshift is required to maintain optimum performance.

For setting options see Performance, page 4.12.

Shift lights are displayed when Track powertrain or handling mode is selected, see Shift lights, page 3.02.



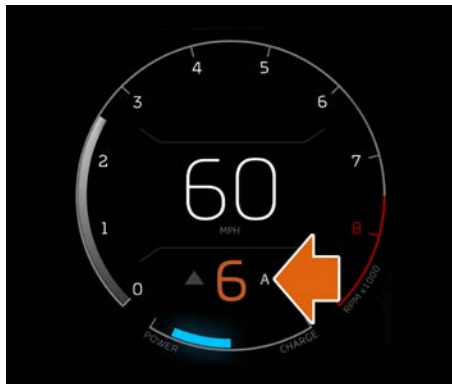
When in manual mode and driving more economically, the gear shift indicator (GSI) will illuminate when an upshift would maintain optimum economy. The GSI will not illuminate if the requested acceleration or deceleration cannot be met with a higher gear. See Economical driving, page 2.13.

**i** NOTE: Not available in all markets, consult your McLaren retailer.

Press the **MANUAL** button again to revert to automatic mode.

## Driving Controls

### Seamless Shift Gearbox



The gearbox mode indicator displays A. All gear changes occur automatically, but if a gearshift paddle is operated the gearbox will adopt a temporary manual mode. This mode will remain active for as long as the driver continues to make manual gear changes, each within an eight second period. The gearbox mode indicator displays A/M, see Gear position indicator, page 3.20.

**i** NOTE: As soon as an eight second period has elapsed without a manual gear change being made, the gearbox will revert to automatic mode.

Gearshift paddles



To upshift, pull the right-hand paddle towards you. To downshift pull the left-hand paddle towards you. The current gear position appears on the gear position display, see Gear position indicator, page 3.20.

**i** NOTE: The single-piece paddle and central pivot enables upshifts and downshifts to be made using either paddle.

As an alternative, upshifts can be made by pushing the left-hand paddle away from you and downshifts can be made by pushing the right-hand paddle away from you.

The gearshift paddles operate irrespective of the handling and powertrain mode selected, and there is no need to release the accelerator pedal to change gear.

**⚠** **WARNING:** For safety, in manual mode, the vehicle will monitor engine speed and may perform an automatic gear change if necessary.

**⚠** **WARNING:** Do not change down for additional engine braking on a slippery surface.

**i** NOTE: If operating the paddles in automatic mode, the gearbox will revert to automatic changes if an eight second period elapses without a gear change being made.

To immediately shift to the lowest possible gear whilst the vehicle is braking, select and hold a downshift on the paddle. The vehicle will then go down through all gears sequentially until the optimum gear is reached or you release the paddle.

## Driving Controls

### Seamless Shift Gearbox

When the vehicle speed is below 6 mph (10 km/h) or the vehicle is stationary with a gear selected, select a downshift and hold the paddle to select neutral.

Neutral can be selected at any vehicle speed by pressing the **N** button. Pressing the **D** button or initiating a shift by operating the gearshift paddles will then select the appropriate gear for the vehicle speed.

# Driving Controls

## Handling and Powertrain Controls

### Handling control

The handling control switch affects the Proactive Damping Control system.

#### Selecting a mode

- i** NOTE: When the vehicle is switched on, it starts in Comfort mode.



1. Press up on the Handling paddle to toggle into Sport or Track mode.



2. To toggle back down into Sport or Comfort mode, press down on the Handling paddle.

#### Modes

The information displayed on the Driver Display will change dependent on the handling mode selected. See Display window, page 3.19.

The mode selected will remain active, until the selection is changed or the ignition is switched off.

The next time the ignition is switched on, the handling mode will return to Comfort mode.

The previously used handling and powertrain modes can be quickly restored by pressing and holding both the down Handling and Powertrain paddles when the ignition is on.

- i** NOTE: If all the following conditions are not met when the selection is made, the mode will not be implemented until they are met:

- No fault conditions existing
- No vehicle dynamic or stability interventions activated, e.g. electronic stability control

- i** NOTE: In Track handling mode, the electronic stability control system is still in operation. For further information, see Electronic stability control (ESC), page 2.30.

#### Comfort

Suspension at its softest setting, offers a compliant ride while maintaining good body control through corners.

#### Sport

Suspension is stiffer, giving a firmer ride coupled with enhanced handling characteristics.

## Driving Controls

### Handling and Powertrain Controls

#### Track

The suspension is at its stiffest, giving almost race car handling and ride characteristics.

#### Powertrain control

##### Selecting a mode

 **NOTE:** When the vehicle is switched on, it starts in Electric mode.



1. Press up on the Powertrain paddle to toggle into Comfort, Sport or Track mode.



2. To change back down into Sport, Comfort or Electric mode, press down on the Powertrain paddle.

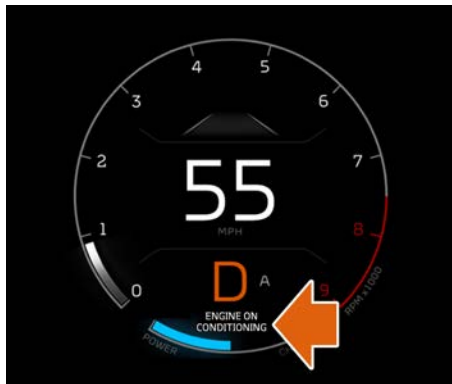
When changing from Electric mode to another powertrain mode for the first time in a drive cycle, there is a delay until combined hybrid power is available. The delay occurs while the catalysts warm and as the pedal map adjusts to cater for the increase in power available.

To indicate this, the progress bar displays on the powertrain mode indicator and CONDITIONING ENGINE is shown on the Driver Display.



## Driving Controls

### Handling and Powertrain Controls



During this delay:

- Drive is provided by the eMotor only. The engine does not provide power or respond to throttle input.
- The transmission remains in automatic.
- The tachometer remains at idle.

When changing back to Electric mode, there is a slight delay as the pedal map adjusts to cater for the decrease in power available. This is indicated by the powertrain mode indicator progress bar.

#### Modes

The information displayed on the Driver Display will change dependent on the powertrain mode selected. See Display window, page 3.19.

The mode selected will remain active, until the selection is changed or the ignition is switched off.

The next time the ignition is switched on, the powertrain mode will return to Electric mode.

The previously used handling and powertrain modes can be quickly restored by pressing and holding both the down Handling and Powertrain paddles when the ignition is on.



**NOTE:** The use of Track mode on the public road is not recommended. Track mode is strictly intended for high performance track/off road use only.

#### Automatic mode

##### Electric

Gear changes are configured for maximum economy and efficiency.

When the High Voltage (HV) battery is not depleted the eMotor provides drive. This allows the full range of throttle input whilst remaining latched in Electric drive.

When the HV battery is depleted in Electric mode, the engine will provide drive to the wheels once the catalysts are warm. However, torque is limited to that provided by the eMotor and the HV battery level is sustained. A message is shown recommending that you change powertrain mode.

#### Comfort

Gear changes are configured to offer the optimum economy without sacrificing the vehicle's inherent performance.

Full combined torque is available. The engine may turn off at low speeds, allowing the eMotor to provide drive. This improves comfort and reduces emissions in slow traffic.

#### Sport

Gear changes will occur at a higher engine speed and with a reduced shift duration and are further enhanced with cylinder cut. See Cylinder cut, page 7.13.

Full combined torque is available. The engine may turn off only when the car is stationary to reduce emissions.

## Driving Controls

### Handling and Powertrain Controls

#### Track

Gear changes occur instantly, according to throttle response and are further enhanced with cylinder cut. See Cylinder cut, page 7.13.

Full combined torque is available. The engine remains on at all times.

#### Manual mode

#### Electric

Manual mode is not available in Electric mode.

#### Comfort

Gear changes are configured to offer optimum comfort and are enhanced with cylinder cut. See Cylinder cut, page 7.13.

#### Sport

Gear changes occur with a reduced shift duration.

#### Track

Gear change strategy is at its sharpest. Changes occur instantly and are further enhanced with inertia push. See Inertia push, page 7.14.

# Driving Controls

## Driving Safety Systems

### Overview

This section contains information about the following safety systems:

- Anti-lock braking system (ABS), page 2.27
- Brake assist system, page 2.28
- Brake disc wiping, page 2.28
- Hill hold control, page 2.29
- Brake-steer, page 2.29
- Electronic brake pre-fill, page 2.30
- Electronic stability control (ESC), page 2.30
- Tyre pressure monitoring system (TPMS), page 2.32
- Driver assistance, page 2.36

 **WARNING: The risk of an accident increases when driving quickly, especially when cornering, on wet and icy roads. Always maintain a safe distance to the vehicle in front. Always adapt your driving style to suit the road and weather conditions and maintain a sufficient distance from other road users and objects on the road.**

 **NOTE:** In winter conditions, the maximum effect of the anti-lock braking system, brake assist system and electronic stability control can only be achieved if you use winter tyres, with snow socks where they are necessary.

### Anti-lock braking system (ABS)

The anti-lock braking system prevents the wheels from locking when you brake. This allows the vehicle to be steered during braking manoeuvres.

The anti-lock braking system works from a speed of approximately 5 mph (8 km/h) upwards, regardless of road surface conditions. It works on slippery surfaces, even when you brake gently.

 **WARNING: Do not depress the brake pedal repeatedly in quick succession (pumping). Depress the brake pedal firmly and evenly. Pumping the brake pedal reduces the braking effect.**

If the anti-lock braking system operates during braking, the warning light flashes, and the brake pedal pulses as this happens.

When the anti-lock braking system is activated, maintain the force on the brake pedal until the braking situation is over.

 **WARNING: Always adapt your driving style to suit the prevailing road and weather conditions and maintain sufficient distance from other road users and objects on the road.**

## Driving Controls

### Driving Safety Systems

#### Anti-lock braking system (ABS) status light



If there is a malfunction with the system, the status light will illuminate. Do not drive your vehicle, contact your McLaren retailer as soon as possible.



**WARNING: If the anti-lock braking system malfunctions, brake assist system and electronic stability control are also deactivated. If the anti-lock braking system malfunctions, the wheels could lock when you brake. This may increase the stopping distance and impair your ability to steer.**

#### Brake assist system

Brake assist system operates in emergency braking situations. If you depress the brake pedal quickly, the brake assist system automatically increases the force applied to the brakes and thus shortens the stopping distance.

Continue to depress the brake pedal firmly until the emergency situation is over, the anti-lock braking system prevents the wheels from locking.

When you release the brake pedal, the brakes will work as normal. The brake assist system is deactivated.



**WARNING: If the brake assist system malfunctions, the brakes will still operate. However, the braking force is not automatically boosted and this may increase the stopping distance.**

#### Brake disc wiping

Brake disc wiping operates automatically when the windscreen wipers are switched on. It prevents moisture build up on the brake discs during periods of heavy rain, improving braking performance.

## Driving Controls

### Driving Safety Systems

#### Hill hold control

If the brake pedal is applied to hold the vehicle on a hill, this function will continue to apply the brakes for 2 seconds after the pedal is released to assist a smooth start.

#### Brake-steer

Brake steer offers the benefits of a torque vectoring differential, but is integrated into the braking system reducing weight and providing excellent speed of response.

Torque vectoring gives the differential the ability to change the amount of power that is sent to each of the rear wheels to provide optimum stability and traction.

If the system detects that the vehicle is starting to understeer through a corner, the inside rear brake is gently applied. This helps to increase the yaw rate of the vehicle, making the vehicle feel more resistant to understeer. The lateral 'g' force is also increased giving better handling characteristics.

If the driver uses too much throttle exiting a corner, the inside rear wheel increases speed, which without brake steer could cause the vehicle to become unstable. In this situation, brake steer will again gently apply the brake on the inside rear wheel, thereby restoring traction and stability.

#### E-Diff

E-Diff offers the benefit of optimising the differential locking torque in every driving conditions in order to enhance vehicle performance.

It improves vehicle stability in lift off conditions at higher vehicle speeds, while the lower speed agility remains uncompromised.

In corner exit conditions, when the inside rear wheel speed increases, the differential transfers torque to the outer wheel to gain traction and performance. This also enhances controllability of drift, when induced.

## Driving Controls

### Driving Safety Systems

#### Electronic brake pre-fill

If the accelerator pedal is suddenly released, the electronic brake pre-fill function immediately brings the brake pads into contact with the discs, ensuring rapid braking.

#### Electronic stability control (ESC)

Electronic stability control (ESC) monitors driving stability and traction between the tyres and the road surface.

Electronic stability control detects when a wheel starts to spin or the vehicle starts to skid and stabilises the vehicle by braking individual wheels, and/or limiting the engine power output. This also assists when pulling away on wet or slippery road surfaces and stabilises the vehicle when braking.

 **NOTE:** Electronic stability control only functions properly if wheels with the recommended specification tyres are used.

Electronic stability control is activated automatically as soon as the engine is started.

 **WARNING:** If the electronic stability control warning illuminates, do not deactivate electronic stability control. Adapt your driving style to suit road and traffic conditions.

#### Traction control system

The traction control system is an integral part of electronic stability control.

The traction control system reduces engine torque to prevent the wheels from spinning. If additional intervention is required to stop the wheels from spinning, the vehicle will apply the rear brakes individually. The traction control system brakes individual drive wheels to prevent them from spinning. This means that the vehicle can accelerate on slippery surfaces.

 **WARNING:** The traction control system cannot reduce the risk of an accident if you drive too fast.

#### Deactivating electronic stability control (ESC)

 **WARNING:** When electronic stability control is deactivated, the risk of the vehicle skidding is increased. Adapt your driving style to suit road and traffic conditions.

 **WARNING:** Do not deactivate electronic stability control unless on a track and prevailing conditions are suitable.

 **NOTE:** When you deactivate electronic stability control, the following conditions result:

- The 'ESC OFF' warning light illuminates
- Electronic stability control no longer improves driving stability

## Driving Controls

### Driving Safety Systems

- The engine's torque is no longer limited and the drive wheels could spin
- The anti-lock braking system remains activated

#### Electronic stability control (ESC) Dynamic mode

Electronic stability control Dynamic mode can be selected at any vehicle speed.



1. The electronic stability control is ON by default.

2. Press the ESC OFF button briefly to activate Dynamic mode which allows more dynamic freedom over the default ESC ON mode.

ESC DYN will be displayed on the Driver Display and the ESC OFF warning light will illuminate.

#### Variable Drift Control (VDC)



- i** NOTE: Variable Drift Control (VDC) is only available if the following conditions are met:
- ESC Dynamic mode active

- Vehicle speed less than 62 mph (100 km/h)
- Vehicle being driven in a straight line

The amount of drift permitted by the ESC in Dynamic mode can be adjusted.

Variable Drift Control (VDC) can be accessed on the Central Display. This allows the driver to select the precise level of electronic stability control support that they would like.

Select Variable Drift Control from the Home menu and switch the slider to On to activate the feature.

Select < or > to decrease or increase the amount of drift to suit your preference.

#### ESC Off

1. If not already in ESC Dynamic mode, press the ESC OFF button briefly to activate ESC Dynamic mode.
2. Press and hold the ESC OFF button for 2 seconds, followed by a confirmation press again within 5 seconds to deactivate the electronic stability control.

ESC OFF will be displayed on the Driver Display and the ESC OFF warning light will illuminate.

## Driving Controls

### Driving Safety Systems

#### Reactivating electronic stability control (ESC)

When electronic stability control is reactivated, the ESC OFF warning light on the Driver Display extinguishes.



**NOTE:** Electronic stability control is automatically reactivated when the ignition is next switched off and on again.

#### Reactivation Procedure



Perform any of the following to reactivate electronic stability control:

- Press the ESC OFF button briefly, the warning light on the Driver Display will be extinguished.
- Switch the ignition off and then switch on again.

#### Tyre pressure monitoring system (TPMS)

Each tyre should be checked weekly when cold and inflated/deflated to the inflation pressure recommended on the tyre pressure label. (If your vehicle has tyres of a different size than the size indicated on the tyre pressure label, you should determine the proper inflation pressure for those tyres).

In certain circumstances it is possible that the tyre pressure monitoring system (TPMS) pressure warning will display without the loss of air from the tyre. This may be due to temperature variations between the locations where the tyre pressure was set and where the vehicle is driven. For example setting pressures in an air conditioned or heated garage and then driving the vehicle outside may induce a tyre pressure warning after a short period of driving. The warning may also display when extreme ambient temperature variations occur or during seasonal temperature changes.



**WARNING:** Never ignore a tyre pressure warning. Check tyre pressures immediately and if necessary contact your McLaren retailer.



## Driving Controls

### Driving Safety Systems

**i** NOTE: The tyre pressure monitoring system (TPMS) fitted to your McLaren will only work with specific Pirelli tyres, see Wheel and tyre sizes, page 7.08.

#### Tyre pressure monitoring system (TPMS) overview



The TPMS warns you when the pressure drops or increases, or when the temperature increases beyond an acceptable level in one or more of the tyres.

The system monitors the pressures and temperatures in each tyre using sensors embedded within each tyre and receivers located within the vehicle.

**i** NOTE: The TPMS will show the last known values on start up, including any errors and warnings. The system will start communicating with the tyres without any delay and update the values on the Driver Display. The vehicle does not need to be moving for the system to communicate with the tyres.

**i** NOTE: When new tyres with sensors are fitted, navigate to the 'Tyres' screen on the McLaren Infotainment System (MIS) and touch the reset icon in order to make the vehicle detect the new tyres. See Tyres, page 4.13.

In a location that is safe and legal to do so, drive the vehicle at a speed between 25 mph and 60 mph (40 km/h and 100 km/h) for a few minutes, the updated pressures, temperatures and sizes will be displayed.

If the reset procedure is not performed, the vehicle will automatically detect the new tyres, but it may take a few more minutes of driving before the display is updated.

#### Tyre pressure monitoring system (TPMS) operation

**!** If a low or high tyre pressure or high tyre temperature is detected, the tyre pressure monitoring system warning light will illuminate along with an associated warning message on the Driver Display.

Stop the vehicle as soon as possible, check all of the tyres, wait for the tyres to cool down and inflate them to the recommended pressure, see Tyre pressures, page 6.40. The warning light will be extinguished once the tyres have been inflated to the correct pressure.

**!** **WARNING: Driving on a significantly under-inflated tyre causes the tyre to overheat and can lead to tyre failure. Under-inflation also reduces fuel efficiency and tyre tread life, and may affect the vehicle's handling and stopping ability.**

## Driving Controls

### Driving Safety Systems

 **WARNING:** Over-inflation causes a reduction of the contact area between the tyre and the road surface. Driving on a significantly over-inflated tyre increases the probability of accidental impact damage, rapid wear in the central tread area, and may affect the vehicle's handling and stopping ability.

 **WARNING:** TPMS is not a substitute for proper tyre maintenance, and it is the driver's responsibility to maintain correct tyre pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tyre pressure warning light.

Each tyre should be checked weekly when cold and inflated/deflated to the inflation pressure recommended on the tyre pressure label.

Navigate to the 'Car Status' screen on the Driver Display to view the current tyre pressures, see Car status, page 3.10.



The display shows the pressures of each of the four tyres. If the pressure figure appears in white, no action is required.

 **WARNING:** If the pressure(s) appears as red or amber text, inflate or deflate the associated tyre(s) to the correct pressure as soon as possible. Inspect the tyre(s) for any possible causes of reduced or increased tyre pressure.

 When the TPMS is set to track mode, the tyre pressure warning level can be adjusted to suit track use. The chequered flag icon will be displayed on the TPMS display when this is enabled. See Track mode, page 2.35.

 **WARNING:** The tyre pressures indicated on the Driver Display will be more accurate with a pressure gauge. The tyre pressure monitoring system is not a substitute for manually checking tyre pressures or checking for wear and damage. The system only provides a low or high tyre pressure warning and does not re-inflate the tyres.

The tyre pressure monitoring system cannot alert you to damage to a tyre. Regularly check the condition of your tyres.

 **WARNING:** If pressure warnings occur frequently, have the tyres checked at your McLaren retailer. Driving on an improperly inflated tyre may reduce tyre tread life, cause tyre damage or failure and affect the vehicle's handling and stopping ability.

## Driving Controls

### Driving Safety Systems

 ENVIRONMENTAL: Under-inflated tyres reduce fuel efficiency and tyre tread life.

 ENVIRONMENTAL: Check tyre pressures at least every 7 days.

#### Tyre Temperature Monitoring System operation

If a high tyre temperature is detected, the Tyre Temperature Monitoring System will display an warning message on the Driver Display.

Navigate to the 'Car Status' screen on the Driver Display to view the current tyre temperatures, see Car status, page 3.10.

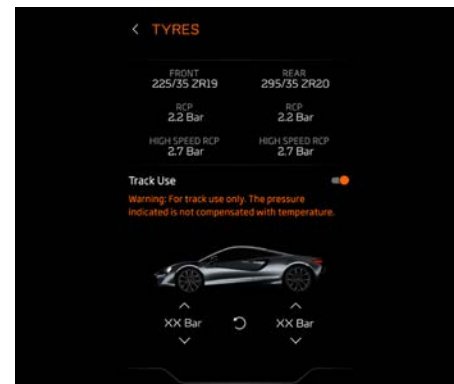


This shows the current temperature of each of the four tyres. If the temperature appears in blue, the tyres have not yet warmed up to optimum operating temperature. If the temperature appears in white, no action is required.

 **WARNING: If the temperature appears in red, the safe operating temperature of the tyre(s) has been exceeded. Reduce speed or stop the vehicle until the temperatures are at a safe level, i.e. temperatures are displayed in white. Inspect the tyre(s) for any possible causes of increased tyre temperature.**

 When the TPMS is set to track mode, the tyre pressure warning level can be adjusted to suit track use. The chequered flag icon will be displayed on the TPMS display when this is enabled. See Track mode, page 2.35.

#### Track mode



 **WARNING: Track mode is for track use only and is not suitable for road use. The tyre pressure warning levels indicated are not compensated with temperature.**

 **NOTE:** Before you use your vehicle on a track, consult your McLaren retailer. McLaren recommend that your vehicle is inspected before and after track use.

For more information on track use, see Track driving, page 5.

## Driving Controls

### Driving Safety Systems

When the vehicle is used on track, the tyre pressures should be adjusted to levels more suitable for track use.

The Tyre Pressure Monitoring System (TPMS) pressure warning levels can be changed to suit the adjusted pressures.

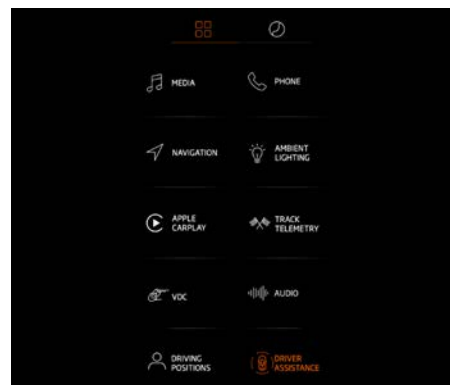
Navigate to the 'Tyres' screen on the McLaren Infotainment System (MIS) and touch Track Use to enable this feature and adjust the pressures as required. See Tyres, page 4.13.



When the TPMS is set to track mode, the chequered flag icon will be displayed on the 'Car Status' screen on the Driver Display.

Before driving on public roads following a track session, deactivate Track mode, inspect the tyres and replace them if necessary. Check the tyre pressures and adjust them if necessary, see Tyre pressures, page 7.09.

### Driver assistance



**⚠ WARNING:** The driver assistance features fitted to your McLaren are no substitute for safe driving with due care and attention. The driver remains responsible at all times.

Touch the Driver Assistance icon on the McLaren Infotainment System (MIS) Home screen.

Settings are available for the following features:

- Road Sign Recognition, page 2.37
- Lane Departure Warning, page 2.38
- Other Assistance, page 2.39

## Driving Controls

### Driving Safety Systems

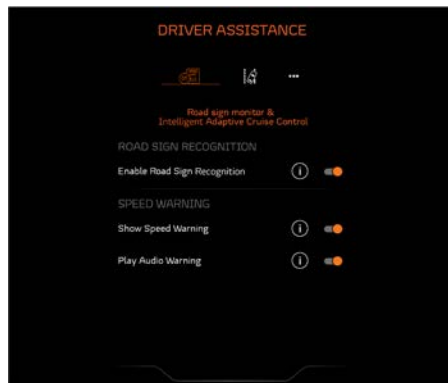
**i** NOTE: The settings available may vary depending on the vehicle specification.



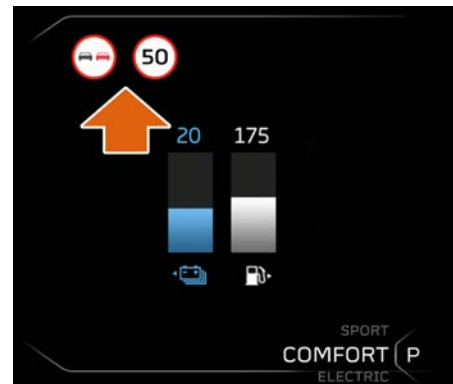
If a message is displayed on the Driver Display related to the driver assistance camera or radar being "blind", ensure that the areas on the windscreen and lower bumper are not obstructed, for example by frost, ice, snow, dirt, scratches, etc.

If the message persists, contact your McLaren retailer.

#### Road Sign Recognition



Touch Enable Road Sign Recognition to enable or disable this feature.



When enabled, speed limit signs and no overtaking signs will be shown on the Driver Display when detected.

**i** NOTE: The road signs displayed on the Driver Display will be as they are detected by the camera. To ensure that the units displayed on the Driver Display match the displayed signs, ensure that speed and distance units for the vehicle are set to match the country the vehicle is being driven in. See Time and Units, page 4.16.

# Driving Controls

## Driving Safety Systems

This feature needs to be enabled in order for the Intelligent Adaptive Cruise Control (IACC) to automatically adjust the vehicle speed to new speed limits. See Intelligent Adaptive Cruise Control (IACC), page 2.52.

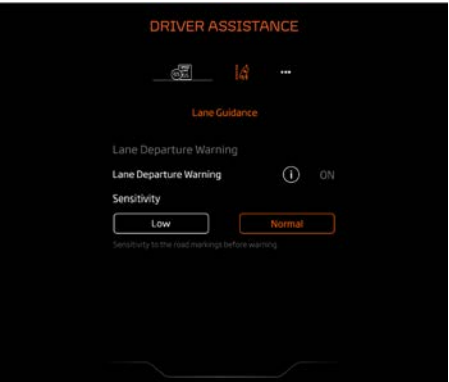
Touch **Show Speed Warning** to enable a visual speed warning. When enabled, the number on the speed limit sign shown on the Driver Display will change to red and will flash when that speed is exceeded.

Touch **Play Audio Warning** to enable a warning chime to sound when the detected speed limit is exceeded.

**i** NOTE: The road sign recognition system may fail to detect or incorrectly detect signs if the camera view is obscured. This could occur due to dirty or frozen windscreen or poor weather conditions, for example, fog, heavy rain or snow.

**i** NOTE: The road sign recognition system may display signs that have been falsely detected from the speed limit stickers on the rear of large vehicles.

### Lane Departure Warning



When enabled, an audible warning will sound and a visual warning will be shown on the Driver Display when the system detects that the vehicle is departing a lane and which side of the lane it is departing.

**⚠ WARNING: Lane departure warning is no substitute for safe driving with due care and attention. The driver remains responsible at all times.**

Lane departure warning can operate at speeds between 40 mph - 112 mph (65 km/h - 180 km/h).

Touch **Low** or **Normal** to select your preferred sensitivity level. The default is **Normal**.



When the feature is enabled, white lines will be displayed to represent the detected edge of the lane the vehicle is driving in. If no road markings are detected, to identify the edge of the lane, grey lines will be displayed on the Driver Display. The line will be highlighted in orange as a warning that the vehicle is departing the lane. Indicating to the left or right will disable the lane departure warning in that direction, for the duration of the manoeuvre.



No road markings detected.

## Driving Controls

### Driving Safety Systems



Road markings detected on each side of the vehicle.



Vehicle departing the lane to the left-hand side.



Vehicle departing the lane to the right-hand side.



Lane departure warning is not enabled by default. The feature can be enabled or disabled using the button on the dashboard and will retain the same state when the ignition is switched off and on again.

An audible warning tone will sound when the feature is enabled using the button.

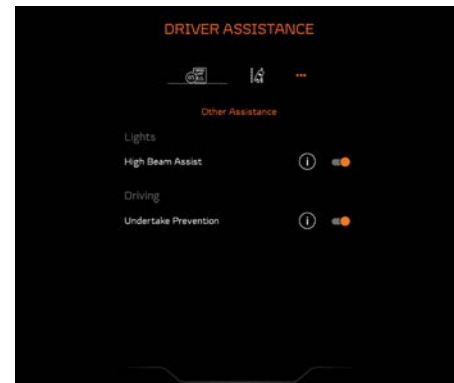


The notification light on the Driver Display will illuminate and warning message will be displayed if there is a fault with the system. The notification light and warning message may be accompanied by an audible warning tone.

The following may have an effect on the operation of lane departure warning:

- The camera view is obscured by stickers or due to dirty, misted or frozen windscreen or poor weather conditions, for example, fog, heavy rain, heavy spray or snow
- The camera view is dazzled by low sun light
- The road lanes are too narrow or too wide
- The road has very tight bends
- The road lane markings are not available, are too wide, are in poor condition or are covered by water, snow or mud

### Other Assistance



Touch High Beam Assist to enable the feature, which will automatically dip the main beam headlamps for oncoming traffic. See Auto High Beam Assist, page 1.35.

Touch Undertake Prevention to enable the feature, which will prevent the vehicle from undertaking other vehicles when Adaptive Cruise Control (ACC) is active. See Adaptive Cruise Control (ACC), page 2.48.

# Driving Controls

## Launch Control

### Overview

Launch control is designed to offer the maximum acceleration from a standing start.



**WARNING: Do not initiate launch control unless on a track. Before initiating launch control, ensure that all doors, luggage compartment and service cover are closed, and the prevailing conditions are suitable for performing maximum acceleration manoeuvres.**



**NOTE:** Launch control can be operated in either automatic or manual modes and any handling or powertrain mode.



**NOTE:** The launch sequence can be aborted at any point by carrying out any of the following actions:

- Pushing the left-hand control stalk away



**NOTE:** The launch sequence will be automatically aborted if any of the following occur:

- Waiting longer than three seconds after boost has been built to launch

- If a launch is successfully started, but the vehicle speed does not reach 60 mph (97 km/h) within 10 seconds
- If any error or warning message is displayed on the Driver Display
- If an incoming call is detected on a phone connected to the McLaren Infotainment System (MIS)
-  **NOTE:** If the launch process is aborted, the vehicle will enter a safe mode, where engine performance is limited. Release both the brake and accelerator pedals to reset the safe mode and restore full performance.
-  **NOTE:** If there is a fault or the launch procedure has not been followed correctly, a warning message 'Launch not available - See owner's manual' will be shown on the Driver Display. Repeat the launch procedure, ensuring that it is followed correctly. If the warning message remains, contact your McLaren retailer.
-  **NOTE:** Launch mode is only available if the following conditions are met:
  - Both doors are closed
  - Parking brake disengaged
  - Drive (D) selected
  - Comfort, Sport or Track Powertrain mode selected
  - Vehicle ride height normal and nose lift function inactive
  - Atmospheric altitude has no detrimental effect with respect to engine performance
  - Engine coolant at normal operating temperature



## Driving Controls

### Launch Control

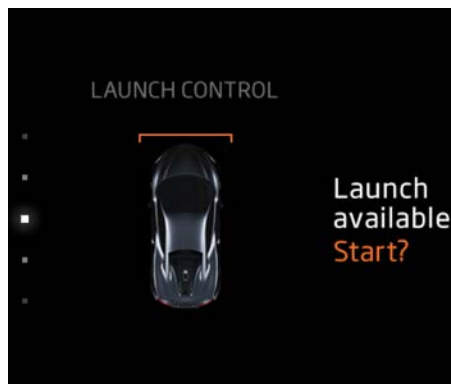
#### Using launch control

 **WARNING:** Do not initiate launch control unless on a track. Before initiating launch control, ensure that all doors, luggage compartment and service cover are closed, and the prevailing conditions are suitable for performing maximum acceleration manoeuvres.

1. Ensure the steering wheel is in a straight ahead position.

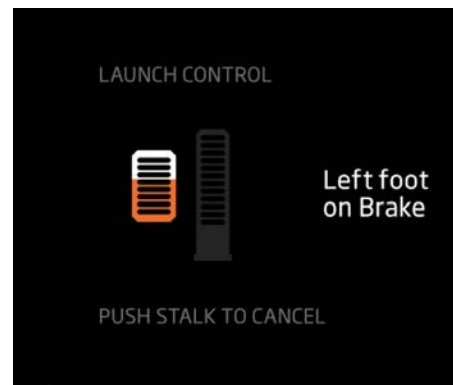


2. Using the left-hand control stalk, navigate to the launch control function.



3. Pull the left-hand control stalk to begin the launch control process.  
Follow the instructions on the Driver Display.

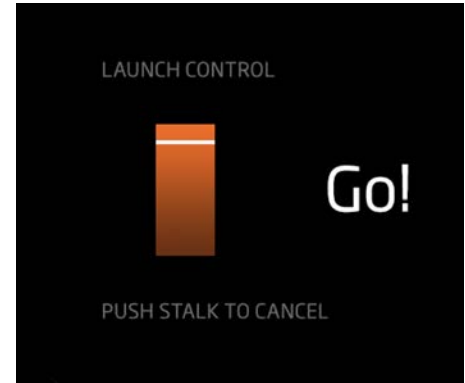
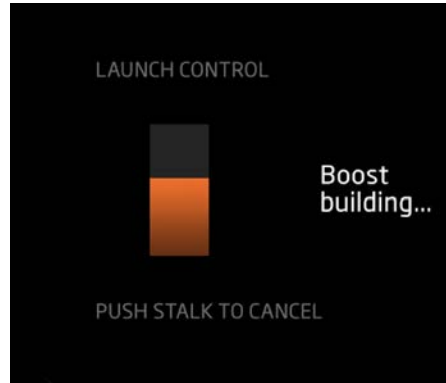
 **NOTE:** L will flash in the gearbox mode indicator on the Driver Display, see Manual/automatic mode, page 2.20.



4. Depress the brake pedal firmly with your left foot.

## Driving Controls

### Launch Control



5. With your left foot remaining on the brake pedal, press and hold the accelerator pedal down fully with your right foot, the engine speed will increase to 3,200 rpm.
6. The message 'Boost building' will be shown on the Driver Display.
7. Once sufficient boost has been achieved, the message 'Go!' will be shown on the Driver Display.  
Release the brake pedal with your left foot and the launch control system will perform a launch start to give maximum acceleration.

## Driving Controls

### Launch Control

**i** NOTE: The white line moves down the boost gauge, acting as a countdown until launch is no longer available. If the countdown expires before the brake pedal is released, the launch process will be aborted and the message 'Launch not available' will be shown on the Driver Display.

**i** NOTE: To abort launch control release the accelerator pedal or wait for approximately 5-10 seconds until launch control is deactivated. If the launch is aborted, release the accelerator pedal and then press again to drive away.

8. Launch control will operate if the procedure has been followed correctly until aborted.

**i** NOTE: Whilst in launch control, the vehicle will carry out automatic gear shifts, and optimise traction. It will continue to do so until launch control is aborted. To abort launch control, release the accelerator pedal, apply the brake, or operate one of the gearshift paddles.

# Driving Controls

## Cruise Control

### Overview

**i** NOTE: If your vehicle is equipped with cruise control, it will not be equipped with Adaptive Cruise Control (ACC).

**⚠** WARNING: Pay particular attention to road and traffic conditions, when cruise control is activated, and always travel at a speed which is safe for the current conditions.

Never use cruise control on winding or slippery roads or when visibility is poor, e.g. in fog, heavy rain or snow.

**⚠** WARNING: The driver is responsible for driving with due care and attention, and in a safe manner for the vehicle, the occupants, and other road users at all times.

Cruise control allows the driver to maintain a constant speed without using the accelerator pedal. This is useful on motorway journeys where a constant speed can be maintained for long periods.



All cruise control functions are operated by the cruise control stalk, positioned on the right of the steering column.

### Using cruise control



Accelerate to the desired speed and push the stalk up briefly, to activate cruise control.

## Driving Controls

### Cruise Control



The set speed will appear on the Driver Display.

**i** NOTE: Cruise control will only operate at speeds in excess of 20 mph (30 km/h).

Speed can be increased at any time by pressing the accelerator pedal. Once the accelerator pedal is released the vehicle will return to the cruise control speed.

**!** **WARNING:** Always be aware that cruise control is engaged and do not override cruise control for extended periods. Releasing the accelerator in these circumstances could lead to the vehicle not decelerating at the rate you expect.

### Cancelling cruise control



Briefly push the cruise control stalk away from you.

Cruise control is cancelled. The indicator on the Driver Display extinguishes but the last speed set remains stored.

**i** NOTE: The last speed stored is cleared when you switch off the engine.

Cruise control is also cancelled if the foot brake is pressed or if neutral is selected.

## Driving Controls

### Cruise Control



NOTE: Cruise control is cancelled automatically if electronic stability control detects wheel spin, vehicle skid or if electronic stability control is switched off.

#### Increasing cruise control speed



- A brief push of the stalk upwards will increase the vehicle speed in 1 mph (1 km/h) increments (depending on the units selected, see Speed & Distance, page 4.17);
- or push and hold the stalk upwards will increase the vehicle speed in 5 mph (10 km/h) increments, release the stalk when the desired speed has been reached;
- or accelerate to the new desired speed and push the stalk up.

#### Reducing cruise control speed



- A brief push of the stalk downwards will decrease the vehicle speed in 1 mph (1 km/h) decrements (depending on the units selected, see Speed & Distance, page 4.17);
- or push and hold the stalk downwards, the vehicle will decelerate in 5 mph (10 km/h) increments, release the stalk when the desired speed has been reached.

## Driving Controls

### Cruise Control

**i** NOTE: If you decelerate using the cruise control stalk, the gearbox may shift down to increase the rate of deceleration. Downshifting manually using the gear change paddles will not disengage cruise control.

#### Resuming a stored speed

**⚠ WARNING:** Only resume the stored speed if it is appropriate for the current road and traffic conditions. Sudden acceleration could endanger yourself and others.



Pull the cruise control stalk briefly towards you. Cruise control will adjust the vehicle's speed to the last speed stored.

## Driving Controls

### Adaptive Cruise Control (ACC)

#### Overview

**⚠ WARNING:** Pay particular attention to road and traffic conditions, when Adaptive Cruise Control (ACC) is activated, and always travel at a speed which is safe for the current conditions.  
Never use ACC on winding or slippery roads or when visibility is poor, e.g. in fog, heavy rain or snow.

**⚠ WARNING:** The driver is responsible for driving with due care and attention, and in a safe manner for the vehicle, the occupants, and other road users at all times.

**⚠ WARNING:** ACC may not react to oncoming traffic, overhanging loads from other vehicles, pedestrians, stationary vehicles or objects. To avoid an impact, it is important that the driver is always prepared to press the brake pedal and is driving with due care and attention at all times.

**i NOTE:** ACC is only available if the following conditions are met:

- Both doors are closed

- Set belt buckled
- Parking brake disengaged
- Drive (D) selected
- ESC on

ACC allows the driver to set a cruising speed. The vehicle speed will automatically be reduced if a slower moving vehicle is detected in the lane ahead and automatically increased again when the lane becomes clear.



#### Using Adaptive Cruise Control (ACC)



Accelerate to the desired speed and push the stalk up briefly, to activate ACC.

All ACC functions are operated by the control stalk, positioned on the right of the steering column.



## Driving Controls

### Adaptive Cruise Control (ACC)



The set speed will appear on the Driver Display.

**i** NOTE: ACC is available from 0 mph - 100 mph (0 km/h - 160 km/h), but can only be set at speeds in excess of 15 mph (20 km/h).

Speed can be increased at any time by pressing the accelerator pedal. Once the accelerator pedal is released the vehicle will return to the ACC set speed.

**⚠ WARNING:** Always be aware that cruise control is engaged and do not override cruise control for extended periods. Releasing the accelerator in these circumstances could lead to the vehicle not decelerating at the rate you expect.

Increasing Adaptive Cruise Control (ACC) speed



- A brief push of the stalk upwards will increase the vehicle speed in 1 mph (1 km/h) increments (depending on the units selected, see Speed & Distance, page 4.17);

- or push and hold the stalk upwards will increase the vehicle speed in 5 mph (10 km/h) increments, release the stalk when the desired speed has been reached;
- or accelerate to the new desired speed and push the stalk up.

Reducing Adaptive Cruise Control (ACC) speed



- A brief push of the stalk downwards will decrease the vehicle speed in 1 mph (1 km/h) decrements (depending on the units selected, see Speed & Distance, page 4.17);

## Driving Controls

### Adaptive Cruise Control (ACC)

- or push and hold the stalk downwards, the vehicle will decelerate in 5 mph (10 km/h) increments, release the stalk when the desired speed has been reached.

**i** NOTE: If you decelerate using the cruise control stalk, the gearbox may shift down to increase the rate of deceleration. Downshifting manually using the gear change paddles will not disengage cruise control.

#### Cancelling Adaptive Cruise Control (ACC)



Briefly push the ACC stalk away from you.

ACC is cancelled. The indicator on the Driver Display extinguishes but the last speed set remains stored.

**i** NOTE: The last speed stored is cleared when you switch off the engine.

ACC is also cancelled if the foot brake is pressed or if neutral is selected.

**i** NOTE: ACC is cancelled automatically if electronic stability control detects wheel spin, vehicle skid or if electronic stability control is switched off.

#### Resuming a stored speed

**⚠ WARNING: Only resume the stored speed if it is appropriate for the current road and traffic conditions. Sudden acceleration could endanger yourself and others.**



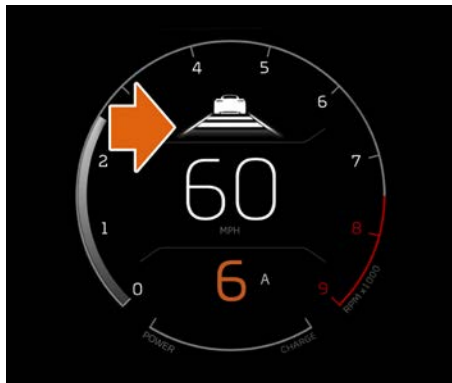
Pull the ACC stalk briefly towards you.

ACC will adjust the vehicle's speed to the last speed stored.

## Driving Controls

### Adaptive Cruise Control (ACC)

#### Follow Mode



When ACC detects a vehicle in the lane ahead, it will be shown on the Driver Display. ACC will maintain a constant gap to the vehicle ahead, which will be represented by the lines on the display.



The default gap setting is 3, but it can be adjusted by pressing the button on the end of the control stalk, which will cycle through each gap setting.

When a detected vehicle in the lane ahead slows down, the ACC system will maintain the set gap and reduce speed. When the vehicle ahead increases speed or the lane ahead becomes clear, the ACC will accelerate, up to the previously set cruising speed.

The gap can be disabled by pressing the button on the end of the control stalk for two seconds. This effectively deactivates ACC and the system will operate like standard cruise control, see Cruise Control, page 2.44.

- i** NOTE: When the ACC is operating like standard cruise control, the maximum set speed remains limited to 100 mph (160 km/h).
- i** NOTE: ACC will be reactivated and the gap setting will be set to 3 when the ignition is next switched off and on again.

**⚠ WARNING: If the ACC is disabled, the vehicle speed will not be reduced if a slower vehicle appears in the lane ahead.**

#### Stop and Go

If the vehicle ahead brakes to a complete stop, then pulls away again within a few seconds, the ACC will automatically pull away and accelerate the vehicle at a speed to maintain the set gap.

## Driving Controls

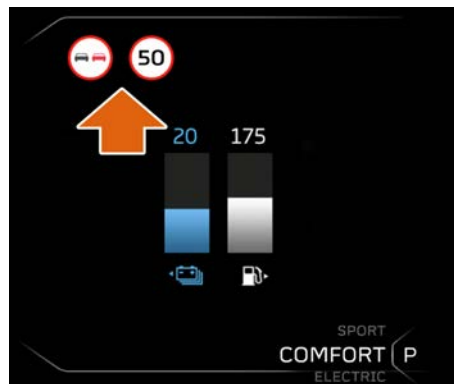
### Adaptive Cruise Control (ACC)

If the vehicle ahead is stationary for longer than a few seconds, ACC will be cancelled and the driver will need to pull the right-hand control stalk to resume or briefly press the accelerator pedal to reactivate the system.

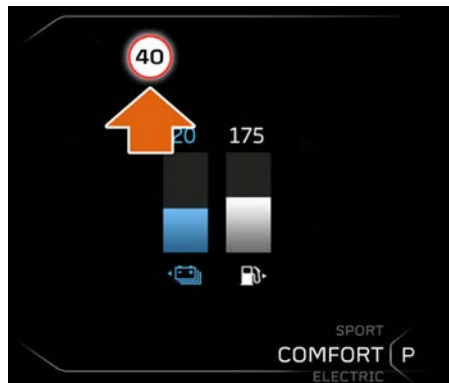
The vehicle will accelerate to the previously set cruising speed as soon as the road is clear.

#### Intelligent Adaptive Cruise Control (IACC)

Road sign recognition must be enabled to make use of the IACC feature, see Driver assistance, page 2.36.



When road sign recognition is enabled, speed limit signs and no overtaking signs will be shown on the Driver Display when detected.



When a new speed limit is detected, it will glow in the Driver Display. The driver can pull the right-hand control stalk to automatically update the IACC system with a new target cruising speed.

#### Overtake Aid

When ACC is active and the indicator is switched on, the ACC will allow the vehicle to temporarily reduce the gap to a vehicle in the lane ahead in order to allow greater acceleration and a quicker overtake.

When the overtaking manoeuvre has been completed, the gap will return to the previous setting.

#### Undertake Prevention

See Driver assistance, page 2.36 to enable undertake prevention.

When enabled, this feature will prevent the vehicle from undertaking other vehicles when ACC is active.

## Driving Controls

### Active Speed Limiter (ASL)

#### Setting an upper speed limit

**WARNING:** It is the driver's responsibility to keep within proper speed limits.

**WARNING:** The active speed limiter (ASL) feature may allow the vehicle to exceed the upper speed limit in certain situations, for example when descending steep gradients.

**NOTE:** ASL can be activated when the vehicle is stationary. The upper speed limit will be set to a default speed of 20 mph (30 km/h).

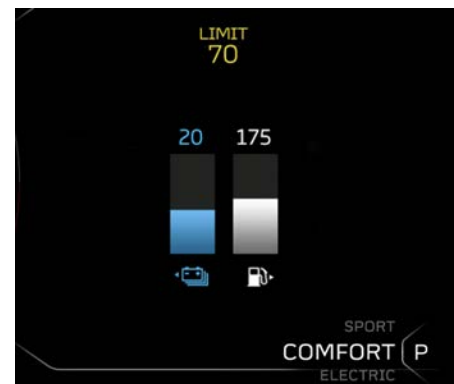
The ASL control allows the driver to set an upper speed limit.

#### Selecting a speed



- Accelerate or decelerate to the maximum permitted speed and push the stalk down briefly, to activate the Active Speed Limiter (ASL).
- A brief push of the stalk upwards will increase or downwards will decrease the set speed in 1 mph (1 km/h) increments (depending on the units selected, see Speed & Distance, page 4.17).

- Push and hold the stalk upwards to increase or downwards to decrease the set speed in 5 mph (10 km/h) increments, release the stalk when the desired set speed has been reached.



- The upper speed limit will appear on the Driver Display.
- NOTE:** The ASL can be overridden by depressing the throttle pedal beyond a predetermined point.

## Driving Controls

### Active Speed Limiter (ASL)

#### Cancelling Active Speed Limiter (ASL)



To cancel Active Speed Limiter (ASL) briefly push the stalk away from you. The indicator on the Driver Display will extinguish.

# Driving Controls

## Running In

### Running in

Observe the following running in instructions when the vehicle is new or if any of these components have been replaced.

#### Engine and gearbox

For the first 625 miles (1,000 km):

- drive at varying road and engine speeds.
- do not drive faster than the maximum speed limit of the road, or 150 mph (240 km/h).
- do not use your vehicle on a track.
- avoid heavy loads on the engine (driving at full throttle).
- avoid driving at engine speeds less than 2,000 rpm.
- avoid running at constant speed and load for long periods.
- avoid using kickdown.
- do not downshift for additional engine braking.
- avoid stopping the engine within 2 minutes of high speed and high load running.

- avoid idling the engine for more than 10 minutes.

After the 625 miles (1,000 km) running in period, you may gradually use the vehicle's full performance.

 **NOTE:** Failure to observe the engine and gearbox operating limits during the running in period may lead to premature wear or damage.

 **NOTE:** These running in instructions also apply for the first 625 miles (1,000 km) after the engine or transmission has been replaced.

 **ENVIRONMENTAL:** This advice will assist in improving fuel economy and should be adopted as normal driving practice even after the running in period.

#### Brakes

New brakes require an initial bedding in period. Avoid heavy braking situations for the first 625 miles (1,000 km).

### Normal/road use

- Allow the engine to warm up before driving at high engine speeds and high loads. Limit engine speed to 5,000 rpm until the engine reaches full operating temperature.
- Avoid stopping the engine within 2 minutes of high speed/high load running.
- Avoid idling the engine for more than 10 minutes.

## Driving Controls

### Running In

#### Track use

 NOTE: Do not use the vehicle on a track during the running in period.

Before you use your vehicle on the track, consult your McLaren retailer. McLaren recommend that your vehicle is inspected before and after track use.



# Driving Controls

## Refuelling

### Filling with fuel

For details on charging the High Voltage (HV) battery, see:

High Voltage (HV) battery charging safety, page 6.19

Charging the High Voltage (HV) battery, page 6.21

### Refuelling safety

 **WARNING: Fuel is highly flammable. Fire, naked flames, smoking and using a mobile telephone are prohibited when handling fuels. Switch off the engine before refuelling.**

 **WARNING: Fuel and fuel vapours can damage your health. Do not inhale fuel vapours or allow fuel to come into contact with skin or clothing.**

 **WARNING: The fuel funnel must be used when using a non-standard filling nozzle. See Filling with the fuel funnel, page 2.58.**

The fuel filler flap is located at the rear on the right-hand side. It is locked or unlocked automatically when the vehicle is locked or unlocked.

 **NOTE:** Do not attempt to force the filler flap open if the vehicle is locked. You may damage the flap and its locking mechanism.

 **NOTE:** The fuel filler flap will remain locked if the engine is running.

 **NOTE:** The engine will start after refuelling in order to purge the fuel vapour.

### Filling on the forecourt

1. Switch off the engine.



2. Press the rear edge of the fuel filler flap, the latch will release.
  3. Open the flap.
-  **NOTE:** Your vehicle is not fitted with a fuel filler cap.
4. Insert the nozzle into the fuel filler and dispense fuel. For fuel recommendations, see Recommended fuel, page 2.59.
  5. Do not continue to fill the tank after the pump nozzle switches off.
  6. Remove the nozzle.

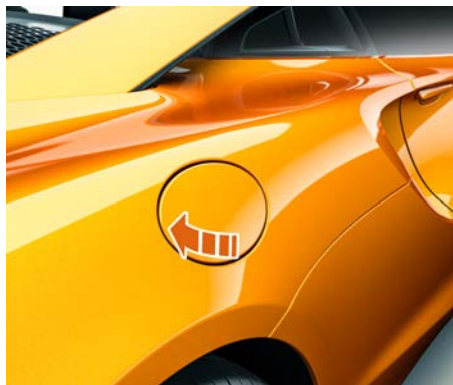
## Driving Controls

### Refuelling

7. Close the fuel filler flap, you will hear the latch engage.

#### Filling with the fuel funnel

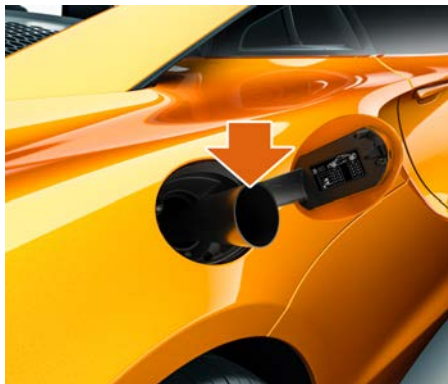
1. Switch off the engine.



2. Press the rear edge of the fuel filler flap, the latch will release.
3. Open the flap.



**NOTE:** Your vehicle is not fitted with a fuel filler cap.



4. Collect the fuel funnel from the front luggage compartment, see Fuel funnel, page 6.15.
5. Insert the fuel funnel fully into the filler neck.
6. Insert the nozzle into the fuel funnel and dispense fuel. For fuel recommendations, see Recommended fuel, page 2.59.
7. Do not overfill.



**WARNING: Take care to avoid spillages and overfilling. Ensure any spillages are cleaned immediately.**

8. Remove the nozzle.
9. Remove the fuel funnel, clean thoroughly and store in the front luggage compartment.
10. Close the fuel filler flap, you will hear the latch engage.

## Driving Controls

### Refuelling

#### Recommended fuel

For maximum engine performance the use of 98 RON/88 MON unleaded petrol meeting specification EN 228 is required.

In areas where 98 RON/88 MON is unavailable, use unleaded premium grade petrol with a minimum octane rating of 95 RON/85 MON, meeting specification EN 228.

-  NOTE: Information relating to the quality of fuel being dispensed is displayed on the filling pump.
-  NOTE: The likelihood of engine wear or damage is increased if fuel does not meet the requirements of EN 228 for unleaded petrol or if fuel additives are used.  
Damage caused by use of incorrect fuel is not covered by the vehicle warranty.
-  NOTE: This vehicle is suitable for use with E10 fuels (10% Ethanol content). This vehicle is not suitable for use with fuels containing more than 10% Ethanol. This vehicle is not fitted with the equipment necessary for the use of fuels containing more than 10% Ethanol.

Do not use E85 fuels (85% Ethanol content). If E85 fuels are used, serious damage will occur to the engine and fuel system.

-  NOTE: If the fuel tank is accidentally filled with the incorrect type of fuel, do not start the engine, and seek qualified assistance.

# Driving Controls

## Winter Driving

### Winter driving

It is recommended that you have your vehicle inspected at your McLaren retailer at the onset of winter. This service includes the following:

- Checking the antifreeze/anti-corrosion concentration
- Adding concentrated cleaning agent to the windscreen washer system
- Checking the battery
- Changing the tyres

### Winter tyres

 **WARNING: Replace winter tyres with a tread depth of less than 4 mm immediately. They are not suitable for winter use because they do not provide sufficient grip, and could cause an accident.**

-  NOTE: Only winter tyres specified by McLaren should be used.
-  NOTE: Tyres with sensors fitted are detected automatically.

 NOTE: In some countries, it is mandatory to fit winter tyres at certain times of the year or during certain driving conditions.

 NOTE: A wheel change must be carried out at your McLaren retailer. The vehicle could be damaged if it is jacked up incorrectly.

 NOTE: When new tyres with sensors are fitted, navigate to the 'Tyres' screen on the McLaren Infotainment System (MIS) and touch reset icon in order to make the vehicle detect the new tyres. See Tyres, page 4.13

In a location that is safe and legal to do so, drive the vehicle at a speed between 25 mph and 60 mph (40 km/h and 100 km/h) for a few minutes, the updated pressures, temperatures and sizes will be displayed.

If the reset procedure is not performed, the vehicle will automatically detect the new tyres, but it may take a few more minutes of driving before the display is updated.

Use winter tyres below 7°C (45°F) and on snow or ice-covered roads. The maximum effect of the anti-lock braking system and electronic stability control systems is only achieved with these tyres.

Use winter tyres of the same make and tread on all wheels to maintain safe handling characteristics.

Winter tyres with sensors are automatically detected by the vehicle and a speed warning will be automatically set as a reminder to not exceed the safe driving speed of the tyres.

Consult your McLaren retailer for advice and information regarding the maximum speed specified for the winter tyres fitted. The maximum speed of the vehicle can be restricted using the ASL system, see Setting an upper speed limit, page 2.53.

### Snow socks

McLaren recommend that you only use snow socks which have been approved for McLaren vehicles. If you are intending to fit snow socks, bear the following points in mind:

- Only ever fit snow socks to both rear wheels.

## Driving Controls

### Winter Driving

- Comply with the manufacturer's installation instructions.

Do not exceed the maximum permissible speed as indicated on the snow sock packaging. Remove the snow socks as soon as possible if you are no longer driving on snow-covered roads.









# Instruments

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  - Overview.....3.02
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  - Power and charge meters.....3.03
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# Instruments Overview

## Overview

The Driver Display is activated when the ignition is switched on, see Switching on the ignition, page 2.05.

 **WARNING:** No messages will appear on the Driver Display if there is a fault with the screen or vehicle electrics. Contact your McLaren retailer immediately. Use of the vehicle in these circumstances can be dangerous.

 **WARNING:** If the Driver Display switches off while the vehicle is being driven, adapt your driving style and stop the vehicle as soon as safety permits. Contact your McLaren retailer.

## Tachometer



The tachometer display appears in the centre of the Driver Display when in Comfort or Sport powertrain and handling modes. The red number on the display indicates the engine's maximum RPM.

When Track powertrain or handling modes are selected, the tachometer style will change to suit the selected mode. See Display window, page 3.19.

 **NOTE:** The maximum RPM is dynamic and will be reduced under certain conditions, for example, if the engine oil is below normal operating temperature or if neutral gear is selected.

 **NOTE:** Do not operate the engine at or near its maximum speed for a significant length of time. The fuel supply is cut off to protect the engine when the maximum RPM is reached.

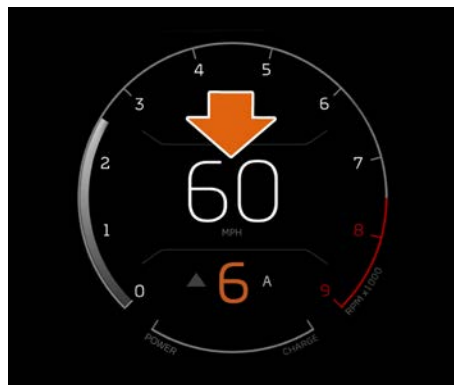
## Shift lights

When Track powertrain or handling mode is selected, shift lights will be displayed across the top edge of the Driver Display. Shift lights indicate the optimal time to change gear for maximum performance. The shift lights are arranged in three blocks; a green block, red block and blue block. Each block illuminates as engine RPM increases. Accelerating the engine speed beyond the point that the blue block is illuminated is not conducive to rapid acceleration.

# Instruments

## Overview

### Speedometer



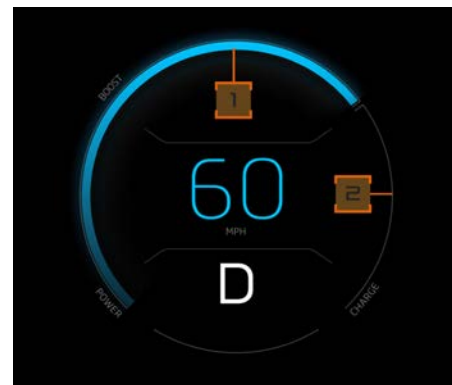
The speedometer is situated centrally on the Driver Display when in Electric and Comfort powertrain mode and in Comfort handling mode.

When Sport or Track powertrain or handling modes are selected, the speedometer style will change to suit the selected mode. See Display window, page 3.19.

**i** NOTE: The speedometer changes from mph to km/h when the units are changed from miles to kilometres, see Speed & Distance, page 4.17.

**i** NOTE: The vehicle speed will constantly display '0' if there is a system communication fault. A warning message will appear on the Driver Display to inform you of the fault. Adapt your driving style while this fault exists, you are responsible for the vehicle's speed at all times. Contact your McLaren retailer.

### Power and charge meters



The power and charge meters are displayed in the centre of the Driver Display when in Electric powertrain mode.

Scaled down versions of the power and charge meters are also shown in Comfort, Sport and Track powertrain hybrid modes. See Display window, page 3.19.

The blue bar in the power meter (1) represents the instantaneous power output from the eMotor, that is currently being used to drive the vehicle.

## Instruments

### Overview

If significant Electric power is demanded for a long period, the electric powertrain may be temporarily derated. This will be shown by a dynamic grey bar appearing in the power meter to represent the reduction in available power. Power will not be derated beyond the Boost label. Reducing demand on electric powertrain will reduce derate, allowing power levels to return to normal.

The charge meter (2) indicates the percentage of possible energy currently being recovered by the eMotor, while the vehicle is being driven.



**NOTE:** Under certain conditions the engine may provide drive to the wheels with Electric powertrain mode selected e.g., when battery charge is depleted. Should this occur, the power meter may not respond to throttle input.

# Instruments

## Driver Display

### Overview

Warnings appear in a pop-up window on the Driver Display.

The stored messages can be viewed at any time when the ignition is on, see Messages, page 3.13.

 **WARNING: Operating and browsing menus whilst the vehicle is in motion could make you unable to observe road and traffic conditions and could cause an accident.**

 **WARNING: Do not ignore warning messages, failure to take appropriate action may result in personal injury or damage to the vehicle.**



1. The content displayed in the left-hand section of the Driver Display is configured using the left-hand control stalk, see Carousel menu, page 3.06.
2. The information displayed in the centre section of the Driver Display will change depending on the handling and powertrain mode selected, see Display window, page 3.19.
3. The content displayed in the right-hand section of the Driver Display will change depending on the powertrain mode selected, see Powertrain control, page 2.24.

4. The currently selected powertrain mode is displayed in the lower, right-hand section of the Driver Display, see Powertrain control, page 2.24.
5. Clock, page 3.05
6. Temperature, page 3.05
7. The currently selected handling mode is displayed in the lower, left-hand section of the Driver Display, see Handling control, page 2.23.

### Clock

The clock displays the current time. For more details see Time and Units, page 4.16.

### Temperature

 **WARNING: Even if the temperature displayed is above freezing point, the road surface may still be icy. You should always adapt your driving style and speed to suit the weather conditions.**

Temperature is the current outside temperature. There is a short delay before a change in outside temperature is displayed.

## Instruments

### Driver Display

When the outside air temperature falls below 5°C (41°F), the frost warning icon displays and the temperature reading is blue in colour.

When the outside temperature is above 5°C (41°F), the frost warning icon is hidden and the temperature reading is white in colour.

#### Carousel menu



Navigation through the menu structure is achieved using the control stalk mounted on the left of the steering column.

The following categories are available:

- Trip, page 3.07

- Navigation, page 3.08
- Media, page 3.08
- Phone, page 3.09
- Car status, page 3.10
- Hybrid battery charging, page 3.12
- Launch Control, page 2.40
- McLaren Track Telemetry (MTT), page 3.12

#### Navigate the menu

1. Move the control stalk up or down (+ or -) to highlight your choice.
2. Pull the stalk towards you to enter your selection.
3. Then select the topic of interest from the list, move the control stalk up or down (+ or -) to highlight your choice.
4. Pull the stalk towards you to move through to the next menu in the structure.
5. At the end of each structure there will be a display of information or a screen where a setting can be changed or information viewed.
6. When the function required is selected or a setting is made, pull the stalk towards you to confirm.

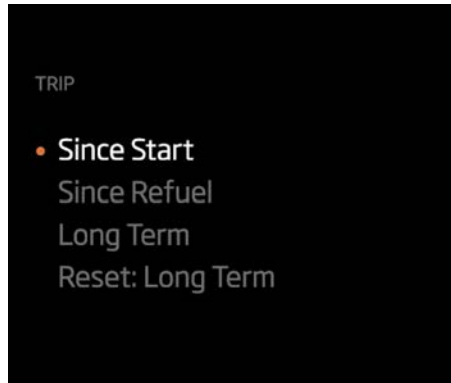


**i** NOTE: If a compatible device is connected via Bluetooth® or USB, press the button on the end of the stalk to activate the device's voice assistant, see Voice Recognition, page 4.41.

## Instruments

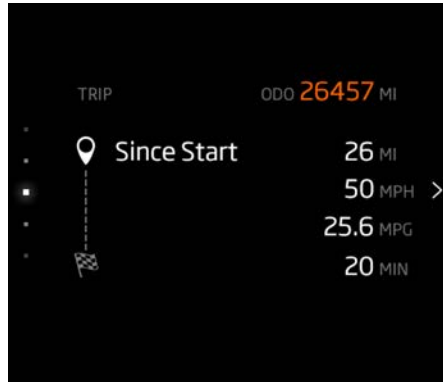
### Driver Display

#### Trip



The Driver Display can display the following trip data:

- Since start
- Since refuel
- Long term



Each trip screen will display the distance, average speed, average fuel consumption and duration for that selection.

The **Since Start** trip will automatically reset to zero when the engine is switched off for approximately 2 hours.

The **Since Refuel** trip will automatically reset to zero when the vehicle has been refuelled.

The **Long Term** trip must be manually reset. To do this, select **Reset: Long Term** from the menu and pull the stalk towards you to confirm.

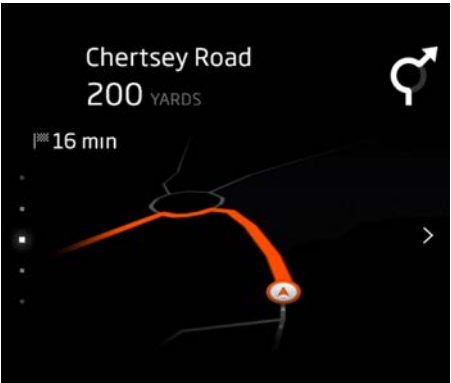
#### Odometer

The odometer is shown on each trip screen and displays the total distance the vehicle has travelled.

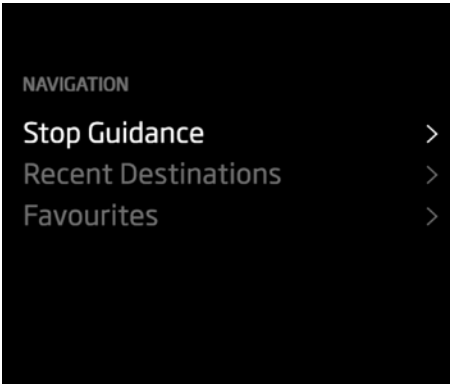
# Instruments

## Driver Display

### Navigation



An overview of the current navigation guidance will be displayed on the Driver Display.



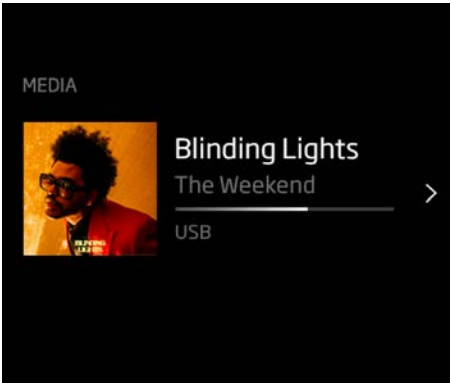
Pull the stalk towards you to access the options, where the route guidance can be stopped, or a new destination selected from recent or favourite destinations.

For more information on setting a route and using the navigation feature, see Navigation, page 4.35.

The turn-by-turn display shows the next turn direction and distance.

**i** NOTE: If no destination has been set using the McLaren Infotainment System (MIS), only the compass and current road name will be displayed.

### Media



Details of the track or radio station currently playing will be displayed.

Pull the stalk towards you to access further options.

The following options are available and will vary depending on the current audio source and available devices.

- Play
- Pause
- Next



## Instruments

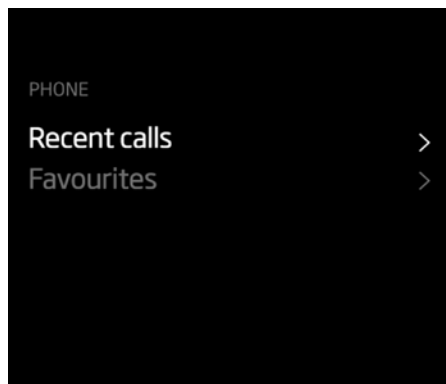
### Driver Display

- Previous
- Mute
- Unmute
- Change source

For more information on accessing media from different sources, see Media, page 4.21.

**i** NOTE: The available options within the media menu may depend on the source which is currently playing.

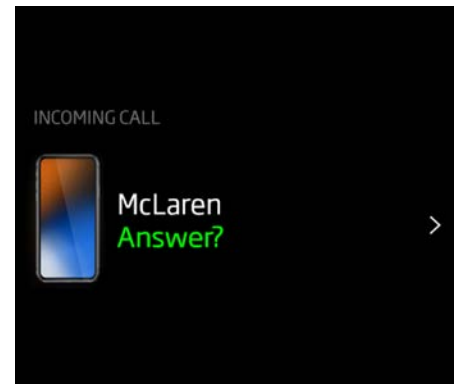
### Phone



Pull the stalk towards you to access further options.

A call can be started from the following options:

- Recent call
- Favourites



When receiving an incoming call, the call details will be shown in the Driver Display. To answer the call, pull the control stalk towards you, to decline the call, push the stalk away.

For more information on accessing the phone from different sources, see Phone, page 4.28.

**i** NOTE: The available options within the phone menu may depend on your model of phone and previous calls made or received while connected to your McLaren.

# Instruments

## Driver Display

### Car status

#### Overview



The Car status landing page shows the pressures and temperatures of each of the 4 tyres. If the figures appear in white, no action is required. If they appear as amber or red text, have the tyres inspected and pressures rectified as soon as possible.

Inspect the tyre(s) for any possible causes of reduced pressure or increased temperature.

See Tyre pressure monitoring system (TPMS), page 2.32.

Pull the stalk towards you to access further options:

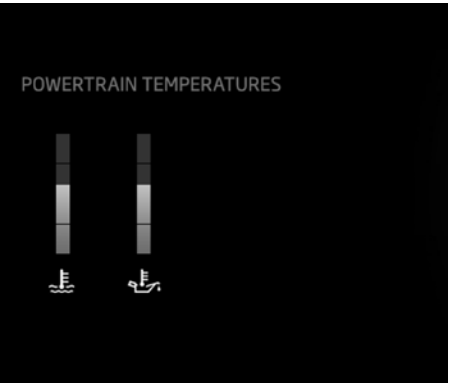
- Messages, page 3.10
- Powertrain temperatures, page 3.10
- Oil, page 3.11
- Battery (12V), page 3.11
- Servicing, page 3.11

#### Messages

If no error messages have been logged, the display will confirm this.

If any errors have been logged, the screen will display error messages with arrows to scroll through the messages. See Messages, page 3.13 for further detail of possible messages.

### Powertrain temperatures



This displays the coolant and oil temperature gauges.

When the engine is first started the gauges will be BLUE. As the engine warms up, the colour will change to WHITE, indicating normal temperature.

High temperature is indicated if the figures turn RED.

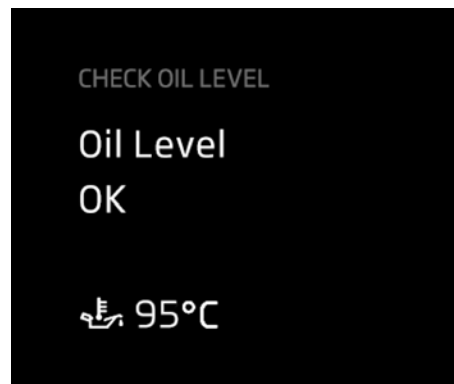
If the gauge shows high temperature, RED, slow down until the temperature drops to normal. If the temperature continues to rise a warning message will appear on the Driver Display.

## Instruments

### Driver Display

Stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.

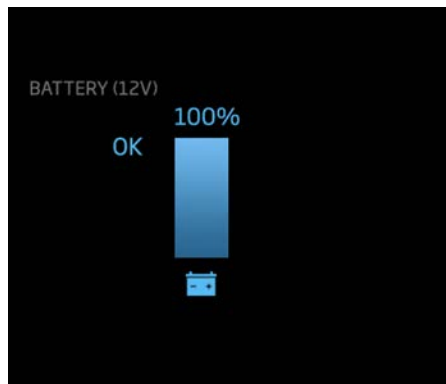
#### Oil



Displays oil level status, together with the oil temperature.

To check the engine oil level, see Checking the engine oil, page 6.04.

#### Battery (12V)



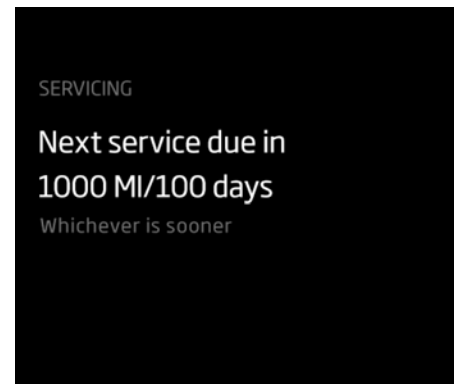
Displays a gauge showing the 12V battery charge status.

If the 12V battery charge level is OK, it will be displayed in BLUE.

A low state of charge will be displayed in YELLOW and very low in RED.

To charge the 12V battery, see Charging the 12V battery, page 6.18.

#### Servicing



At approximately 30 days or 625 miles (1,000 km) before a service is due, the above display appears.

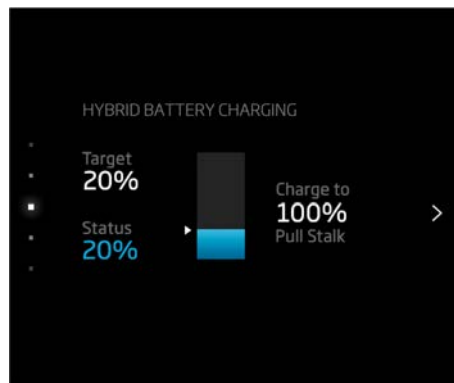
The message will then appear every time the ignition is switched on, with the time/distance figures reducing. Once the service has been carried out, the display will be reset by your McLaren retailer.

If a service becomes overdue, the display will show the distance by which it is overdue.

## Instruments

### Driver Display

#### Hybrid battery charging



In each powertrain mode, the default charging target for the HV battery varies.

**i** NOTE: The percentage values displayed are approximate.

**i** NOTE: The current target charge level is indicated by the  icon on the state of charge gauge.

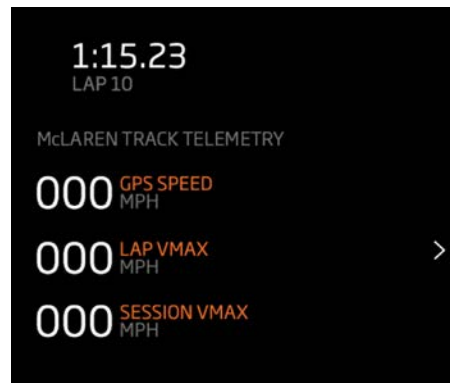
In Sport and Track powertrain modes, the vehicle targets a high state of charge to ensure maximum power is always available.

In Electric and Comfort powertrain modes the vehicle targets a low state of charge to ensure maximum electric range.

The target state of charge can be set to 100% to ensure maximum electric range on arrival, e.g. when travelling towards a zero-emission zone:

Navigate to 'Hybrid Battery Charging' on the Driver Display menu. Pull the left-hand control stalk towards you to toggle the charge target between 100% and the default percentage.

#### McLaren Track Telemetry (MTT)



Once your session is under way, you can see your key data on both the Driver Display and the McLaren Infotainment System (MIS).

Live G Map, brake and throttle position data is displayed before recording has started.

Once recording has started, pull the stalk towards you to cycle through the following displays:

- 2D track layout.
- 3D track layout.
- Lap View (Showing last lap and benchmark time).

# Instruments

## Driver Display

- Speed Summary (Showing GPS Speed, Lap VMAX and overall session VMAX).

Use the left-hand stalk to drop a marker, which can easily be located when analysing the data.

During a Track recording, the lap time, lap number and delta will be displayed above the left-hand carousel display.

During a Road recording, the duration of the recording will be displayed here.

For more information on the McLaren Track Telemetry feature, see McLaren Track Telemetry, page 4.42.

### Messages

The Driver Display may show messages that refer you to the Owner's Handbook.

The icon displayed with the message indicates the severity.



Information that does not require action to be taken.



Information that requires action to be taken.



Low risk fault information. Before the end of your journey, contact your McLaren retailer.



High risk fault information. Stop and leave the vehicle, contact your McLaren retailer.



**NOTE:** Some messages may have different icons indicating that there is a fault with a specific function.

Some messages advise you to consult the Owner's Handbook. The table below indicates what you should do when one of these messages is displayed.



**WARNING:** Do not ignore warning messages, failure to take appropriate action may result in injury or damage to the vehicle.

### Messages

| Message                      | Action                                                                                                               |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 12V battery charging limited | 12V battery may be depleting. Contact your McLaren retailer.                                                         |
| Brake fluid level low        | Top up brake fluid, see Brake fluid, page 6.08.                                                                      |
| Camera fault                 | There is a fault affecting the Advanced Driver Assistance System (ADAS) front camera, contact your McLaren retailer. |

## Instruments

### Driver Display

| Message                                              | Action                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clutch over temperature                              | The vehicle has been subject to extreme operating conditions. This may be caused by excessive hill starts, repeated hard acceleration, driving slowly up steep hills for extended periods. As a result, the gearbox may limit engine torque. Stop the vehicle and allow the engine to idle in neutral for a few minutes. |
| Clutch temperature high                              | The vehicle has been subject to extreme operating conditions. This may be caused by excessive hill starts, repeated hard acceleration, driving slowly up steep hills for extended periods. As a result, the gearbox may limit engine torque. Stop the vehicle and allow the engine to idle in neutral for a few minutes. |
| Cruise control unavailable at current vehicle speed  | See Using cruise control, page 2.44.                                                                                                                                                                                                                                                                                     |
| Display temperature unknown, display will switch off | See Driver Display, Overview, page 3.02.                                                                                                                                                                                                                                                                                 |
| Engine coolant level low                             | Top up engine coolant, see Coolant, page 6.06.                                                                                                                                                                                                                                                                           |
| ESC OFF not possible                                 | The ESC deactivation conditions have not been met, see Electronic stability control (ESC), page 2.30.                                                                                                                                                                                                                    |
| ESC Reduced not possible                             | The ESC reduction conditions have not been met. See Electronic stability control (ESC), page 2.30.                                                                                                                                                                                                                       |
| Exhaust Filter Clean Drive is Needed                 | The Gasoline Particulate Filter (GPF) is approaching capacity and the vehicle needs to be driven, see Gasoline Particulate Filter (GPF), page 6.11                                                                                                                                                                       |
| Front left tyre over inflated                        | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.                                                                                                                                                                                                                               |

## Instruments

### Driver Display

| Message                                                       | Action                                                                                         |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Front left tyre over temperature                              | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Front left tyre pressure critical                             | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Front left tyre pressure low                                  | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Front right tyre over inflated                                | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Front right tyre over temperature                             | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Front right tyre pressure critical                            | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Front right tyre pressure low                                 | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39.     |
| Hybrid battery over temperature. Stop vehicle and exit safely | Stop and leave the vehicle. Contact your McLaren retailer.                                     |
| Hybrid system connection fault. Stop vehicle and exit safely  | Stop and leave the vehicle. Do not return to touch the vehicle. Contact your McLaren retailer. |
| Hybrid system ground fault. Stop vehicle and exit safely      | Stop and leave the vehicle. Do not return to touch the vehicle. Contact your McLaren retailer. |
| Key battery critically low                                    | See Replacing key fob battery, page 6.35.                                                      |
| Key battery low                                               | See Replacing key fob battery, page 6.35.                                                      |

Instruments

Driver Display

| Message                                       | Action                                                                                     |
|-----------------------------------------------|--------------------------------------------------------------------------------------------|
| Launch Mode aborted                           | See Using launch control, page 2.41.                                                       |
| Launch Mode unavailable                       | The conditions to enable a Launch have not been met, see Using launch control, page 2.41.  |
| Rear left tyre over inflated                  | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear left tyre over temperature               | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear left tyre pressure critical              | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear left tyre pressure low                   | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear right tyre over inflated                 | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear right tyre over temperature              | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear right tyre pressure critical             | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Rear right tyre pressure low                  | Stop the vehicle and inspect wheels and tyres, see Inspecting wheels and tyres, page 6.39. |
| Steering fluid level low                      | Top up power steering fluid, see Power steering fluid, page 6.10.                          |
| Temperature too high, display will switch off | See Driver Display, Overview, page 3.02.                                                   |



## Instruments

### Driver Display

| Message                                                      | Action                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tyre Monitoring Fault. Call McLaren Service Centre           | The tyre(s) have not been detected by the TPMS. Navigate to the 'Tyres' screen on the McLaren Infotainment System (MIS) and touch the reset icon in order to make the vehicle detect the tyres, see Tyre pressure monitoring system (TPMS), page 2.32 and Tyres, page 4.13. If the warning message does not clear, contact your McLaren retailer. |
| Tyre not detected                                            | The tyre(s) have not been detected by the TPMS. Navigate to the 'Tyres' screen on the McLaren Infotainment System (MIS) and touch the reset icon in order to make the vehicle detect the tyres, see Tyre pressure monitoring system (TPMS), page 2.32 and Tyres, page 4.13. If the warning message does not clear, contact your McLaren retailer. |
| Tyre Sensor failure detected FL. Call McLaren Service Centre | A failure or low battery has been detected in the tyre sensor, contact your McLaren retailer.                                                                                                                                                                                                                                                     |
| Tyre Sensor failure detected FR. Call McLaren Service Centre | A failure or low battery has been detected in the tyre sensor, contact your McLaren retailer.                                                                                                                                                                                                                                                     |
| Tyre Sensor failure detected RL. Call McLaren Service Centre | A failure or low battery has been detected in the tyre sensor, contact your McLaren retailer.                                                                                                                                                                                                                                                     |
| Tyre Sensor failure detected RR. Call McLaren Service Centre | A failure or low battery has been detected in the tyre sensor, contact your McLaren retailer.                                                                                                                                                                                                                                                     |
| Vehicle speed too high                                       | The vehicle has reached a speed not suited to the current tyre pressures, reduce the vehicle speed. See Tyre pressures, page 7.09.                                                                                                                                                                                                                |
| Windscreen washer fluid low                                  | Top up windscreen washer fluid, see Windscreen washer fluid, page 6.09.                                                                                                                                                                                                                                                                           |

Instruments

Driver Display

| Message                                | Action                                                                                                                                                  |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Winter tyres not suited to high speeds | The vehicle has reached a speed not suited to winter tyres, reduce vehicle speed to suit the tyres fitted to your McLaren, see Winter tyres, page 2.60. |

# Instruments

## Driver Display

### Display window

The display window provides the driver with visual access to the control settings and current performance values of the vehicle.

The information displayed on the centre section of the Driver Display will change dependent on the mode selected.

Non-essential content can be hidden, by pushing and holding the left-hand control stalk away from you to activate Stealth mode.

1. Electric mode, page 3.19
2. Comfort mode, page 3.19
3. Sport mode, page 3.20
4. Track mode, page 3.20

The display window will be configured to suit the highest level handling or powertrain mode selected, with the exception of Electric powertrain mode. If Electric powertrain mode is selected, the display window will be configured to suit Electric mode, no matter what handling mode is selected.

See Handling control, page 2.23 and Powertrain control, page 2.24.

Electric mode



Comfort mode



# Instruments

## Driver Display

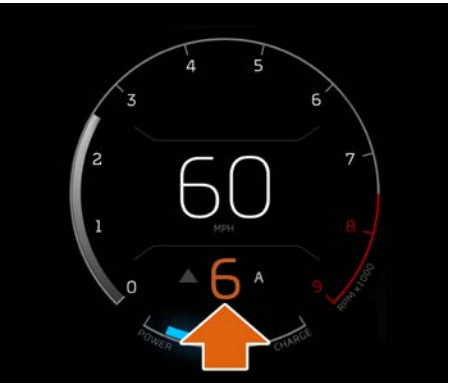
Sport mode



Track mode



Gear position indicator



The gear indicator shows the current gear position selected: Neutral, Gear 1-8, or Reverse (R). The indicator will also show A, M, A/M, or L depending on whether automatic, manual, temporary manual, or launch modes are selected respectively.

The gear position indicator moves to the centre of the Driver Display, swapping position with the speedometer, when the vehicle is in Sport or Track mode. See Sport mode, page 3.20 and Track mode, page 3.20.

## Instruments

### Driver Display

For more information, see Manual/automatic mode, page 2.20.

When the vehicle is in Electric mode, the indicator will show only Drive (D), Neutral (N), or Reverse (R). See Electric mode, page 3.19.

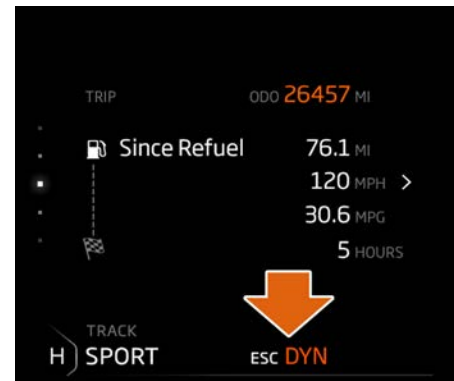
#### Handling and powertrain display



The currently selected handling and powertrain mode will be shown on either side of the Driver Display. See Handling and Powertrain Controls, page 2.23 for further information.

The layout of the Driver Display will change, depending on the handling and powertrain modes selected. See Display window, page 3.19.

#### Electronic stability control (ESC) mode display

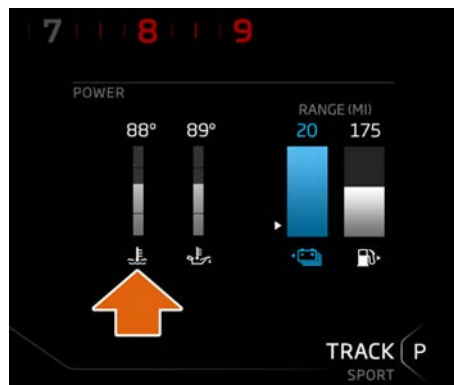


Confirmation of the electronic stability control mode selected is displayed. For more information on the different settings that are available, see Electronic stability control (ESC), page 2.30.

## Instruments

### Driver Display

#### Coolant temperature



With Track mode or Sport mode selected, the coolant temperature is displayed in the form of a coloured gauge on the right-hand side of the Driver Display.

With Comfort mode or Electric mode selected, this gauge remains hidden unless temperatures are out of range.

**i** NOTE: Regardless of the selected powertrain mode, this gauge is always accessible in the Car Status menu on the left side of the Driver Display.

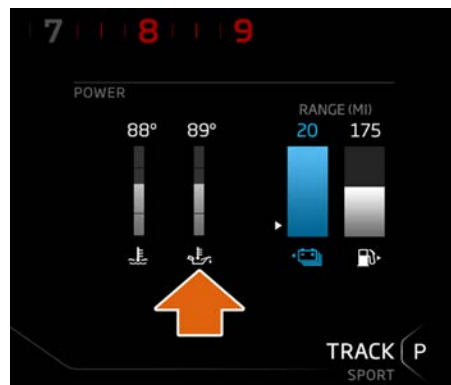
When the engine is first started the figures with the gauge will be BLUE. As the engine warms up, the colour will change to WHITE, indicating normal temperature.

High temperature is indicated if the figures turn RED.

If the gauge shows high temperature, RED, slow down until the temperature drops to normal. If the temperature continues to rise a warning message will appear on the Driver Display.

Stop the vehicle as soon as safety permits and contact your McLaren retailer.

#### Oil temperature



With Track mode or Sport mode selected, the oil temperature is displayed in the form of a coloured gauge on the right-hand side of the Driver Display.

With Comfort mode or Electric mode selected, this gauge remains hidden unless temperatures are out of range.

**i** NOTE: Regardless of the selected powertrain mode, this gauge is always accessible in the Car Status menu on the left side of the Driver Display.

## Instruments

### Driver Display

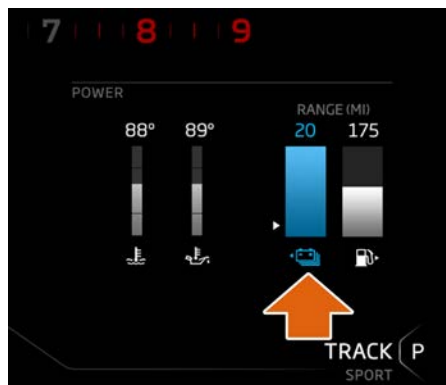
When the engine is first started the figures with the gauge will be BLUE. As the engine warms up, the colour will change to WHITE, indicating normal temperature.

High temperature is indicated if the figures turn RED.

If the gauge shows high temperature, RED, slow down until the temperature drops to normal. If the temperature continues to rise a warning message will appear on the Driver Display.

Stop the vehicle as soon as safety permits and contact your McLaren retailer immediately.

### HV battery charge level and range



The High Voltage (HV) battery charge level is displayed in the form of a gauge along with a range figure on the right-hand side of the Driver Display. The current target charge level is indicated by the ► icon. See Hybrid battery charging, page 3.12.

The charge icon (⚡) will be displayed next to the HV battery gauge to indicate that the HV battery is being charged by the engine.

See Battery Care and Maintenance, page 6.17 for further details on the HV system.

### HV battery range

Range is the estimated distance the vehicle could travel in Electric mode.

If the HV battery range is depleted with the vehicle in Electric mode, the engine will start. Once warm, the engine will provide drive to the wheels. Torque is limited to that provided by the eMotor and the HV battery level is sustained. A message displays recommending that you change powertrain mode.



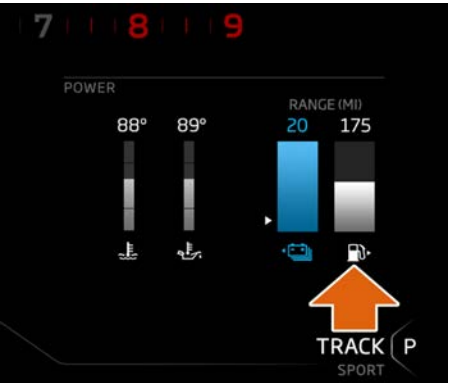
Change to an alternative powertrain mode to access the vehicle's combined hybrid power and to provide charge to the HV battery.

# Instruments

## Driver Display

 NOTE: When Track mode is selected, range figures are displayed as %.

### Fuel level and range



#### Fuel level

The fuel level is displayed in the form of a gauge along with a range figure on the right-hand side of the Driver Display.

#### Fuel range

Range is the estimated distance until the vehicle requires refuelling.







# Central Display

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# Central Display

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# Central Display Introduction

## Copyright

McLaren Automotive is constantly updating the systems covered within this document, and therefore reserves the right to change the specification without notice at any time.

Every attempt is made to ensure that this information is totally accurate, however no liabilities for inaccuracies or the resulting consequences are accepted by McLaren Automotive or its Retailers, except in the case of personal injury caused by the negligence of these parties.

## Other information

The Wi-Fi trademark is owned by the “Wi-Fi Alliance” trade association. A manufacturer may use the “Wi-Fi” trademark to indicate that their certified product belongs to a class of wireless local area network (WLAN) devices based on the IEEE 802.11 standards.

The Bluetooth® word mark and logos are owned by the Bluetooth® SIG Inc., and any use of such marks by McLaren Automotive Ltd. is under licence. Bluetooth QDID: B019632; B017641; B017642.

Apple® and iPhone® are registered trademarks of Apple Inc., registered in the US and other countries.

Other trademarks and trade names are those of their respective owners.

## System controls



When the ignition is switched on, the McLaren Infotainment System (MIS) will start up and resume the previously used audio source if available.

1. Home (Apps, page 4.05)
2. Notifications and settings, page 4.05
3. Home (Widgets, page 4.05)
4. Home and volume, page 4.06
5. Climate Control, page 5.04
6. Apps, page 4.05

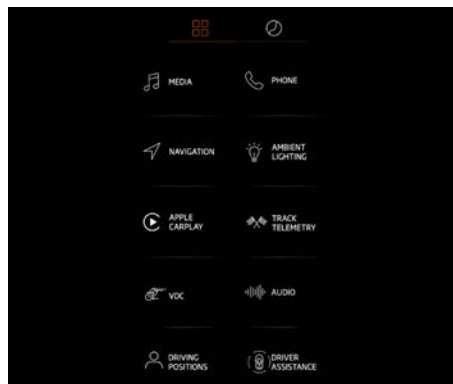
# Central Display Introduction

## Home screens

There are two Home screens in the MIS.

- Apps, page 4.05
- Widgets, page 4.05

## Apps



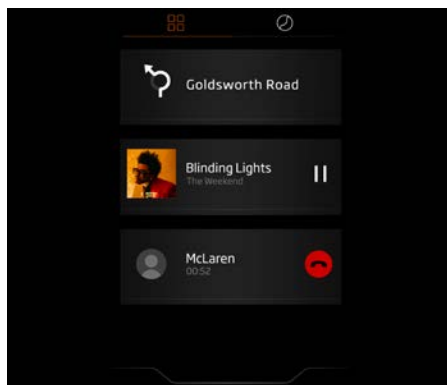
The Apps screen shows all of the available applications in the MIS.

 To access the available applications, press the Home button and touch the Apps icon.

- Media, page 4.21
- Phone, page 4.28

- Navigation, page 4.35
- Audio, page 4.39
- Ambient lighting, page 5.11
- Driver assistance, page 2.36
- Variable Drift Control (VDC), page 2.31

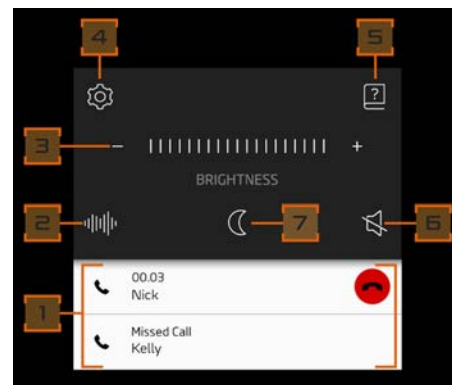
## Widgets



The Widgets screen displays Apps that are currently operating on your MIS. These interactive icons are called Widgets. Touch and hold, then drag the Widgets to change the order in which they are displayed.

 To access the Widgets screen, press the Home button and touch the Widgets icon.

## Notifications and settings



Swipe down on the notification bar at the top of the MIS screen to access notifications and settings shortcuts.

1. Notifications, including the status of connected devices, phone call history and ongoing calls will be displayed in the notification area. Touch on a notification to launch the corresponding application, for example, phone.

## Central Display Introduction

Notifications can be dismissed by swiping them to the left.

2. Touch to view and adjust the audio settings for the MIS.

See Audio, page 4.39.

3. The brightness of the MIS screen can be increased by touching the + icon and reduced by touching the - icon. The screen brightness can also be adjusted by swiping left or right along the bar.

4. Touch to view and adjust the available settings for the vehicle, Driver Display, and MIS.

See Settings, page 4.08.

5. Touch to launch the electronic version of the Owner's Handbook, see Electronic user manual, page 3.

6. Touch to mute/unmute any audio being played.

7. Touch to toggle night mode on or off. When night mode is active, the main part of the MIS screen will turn black. To return to the normal view, touch anywhere on the display.

### Home and volume



 To switch the MIS on, press the Home button.

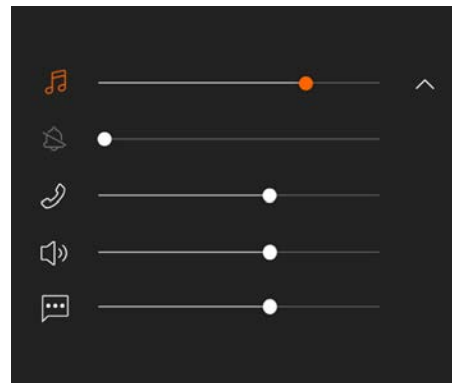
When the MIS is on, a brief press of the button will return you to the Home screen from anywhere in the system.

If you are currently on the Apps home screen, a brief press of the button will take you to the Widgets Home screen.

If you are currently on the Widgets home screen, a brief press of the button will take you to the Apps Home screen.

If you are currently using another application, a brief press of the button will take you to the Apps or Widgets Home screen depending on whichever was most recently used.

To use the MIS when the vehicle's Ignition is off, press and hold the home button for one second to access Timer mode. In this mode the MIS will shut down after 15 minutes if not extended by the user.



Rotate the control clockwise to increase volume or anti-clockwise to reduce the volume.

Use the volume control to set the volume of the source that is currently active. The name of the active source will appear on the screen.



## Central Display Introduction

A horizontal bar representing the volume setting will appear briefly on the screen. Touch the  icon to expand the view and access the volumes of other available audio sources. Touch and drag the bars as required to adjust the volumes of the available audio sources.

If the MIS sound has been muted, rotating the volume control in either direction will restore the sound.

 **NOTE:** You can adjust any volume source by rotating the volume control dial. For temporary sources of audio (phone calls), this can be adjusted using the dial when the source is active.

### Status Bar

A number of icons will appear at the top of the screen, when certain systems are in operation or features are active.



Phone signal strength indicator.



Connected device battery level status.



Wi-Fi signal strength indicator.



Home Wi-Fi signal strength indicator.



Media muted.



Apple CarPlay active.



McLaren Track Telemetry (MTT) recording active.



Over-the-air update scheduled.

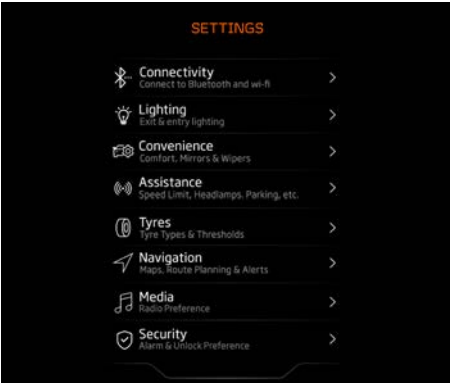


Software download available.

# Central Display Settings

## Overview

Swipe down on the notification bar at the top of the McLaren Infotainment System (MIS) screen to access settings shortcut, or touch the icon on the McLaren Infotainment System (MIS) Apps Home screen.



The following choices can be made from the Settings screen:

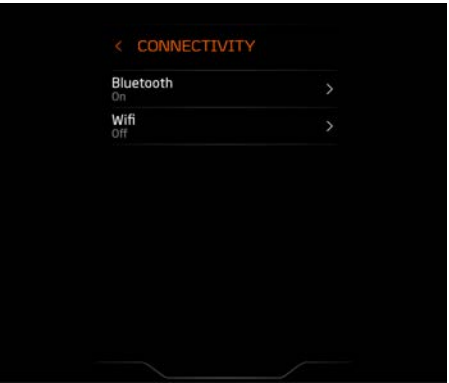
- Connectivity, page 4.08
- Lighting, page 4.10
- Convenience, page 4.10
- Assistance, page 4.12

- Tyres, page 4.13
- Navigation, page 4.14
- Media, page 4.14
- Security, page 4.15
- Time and Units, page 4.16
- System, page 4.19



NOTE: The settings available may vary, depending on the vehicle specification.

## Connectivity

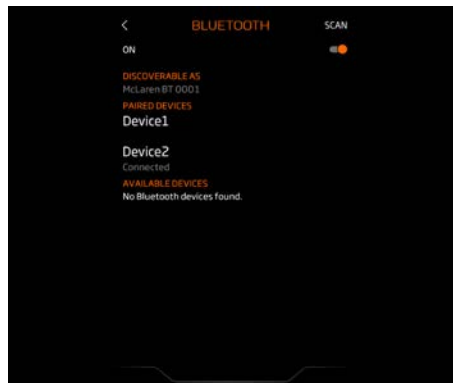


The following connectivity settings are available:

- Bluetooth, page 4.09
- Wi-Fi, page 4.09

# Central Display Settings

## Bluetooth

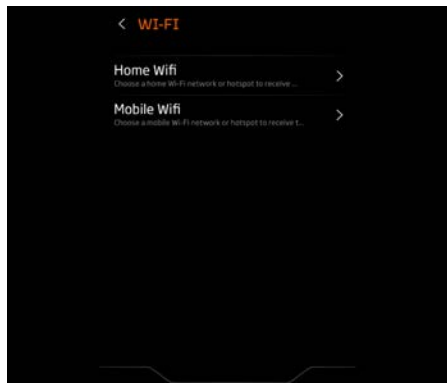


Touch the on screen switch to toggle the function On and Off.

When Bluetooth® is switched on, a list of previously paired devices, any currently connected devices and other available devices that are within range and set to discoverable will be shown. Touch **SCAN** to refresh the list of available devices.

For details on connecting a Bluetooth® device, see Device pairing, page 4.29.

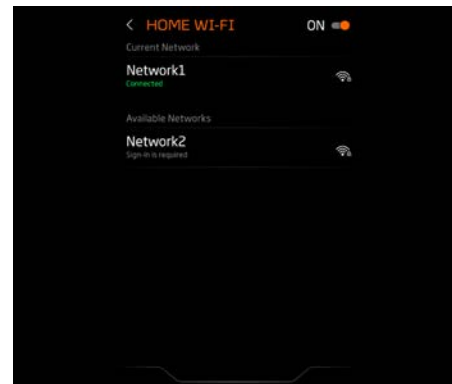
## Wi-Fi



Select Home Wi-Fi or Mobile Wi-Fi, then continue to connect to a suitable Wi-Fi network.

**i** **NOTE:** Connecting to a mobile Wi-Fi network will enable live traffic updates.

**i** **NOTE:** You may be charged by your phone provider for any mobile data used while connected to a mobile Wi-Fi network.



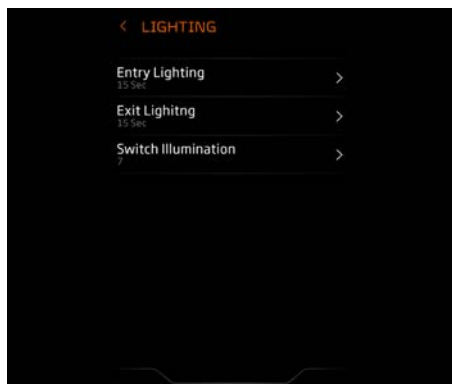
Touch the on screen switch to toggle the function On and Off.

When Wi-Fi is switched on, the currently connected network and any other available networks that are within range will be shown.

The Wi-Fi connection is available in order to update the software for certain components and systems on the vehicle, without the need to visit your McLaren retailer. For details on connecting to a Wi-Fi network, see Over-the-air (OTA) software updates, page 4.48.

# Central Display Settings

## Lighting



### Entry and exit lighting

Entry and exit lighting illuminates the exterior lights when the vehicle is unlocked and locked. To activate these features, set the duration of each to 15 seconds, 30 seconds, 45 seconds or 60 seconds. To deactivate, select Off.

### Switch illumination

This feature can be used to adjust the brightness of the switch illumination. Select the desired level from the range of 1 to 7.

## Footwell and courtesy lighting

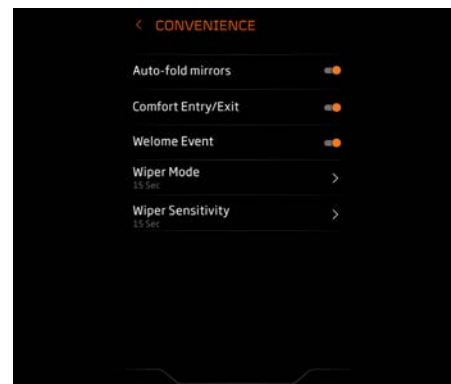
Footwell and courtesy lighting can be set to On or Off as desired.



### NOTE:

The footwell and courtesy lighting setting will not be available if the vehicle is configured with Ambient Lighting.

## Convenience



The following convenience settings are available:

- Auto-fold mirrors, page 4.11
- Comfort Entry/Exit, page 4.11
- Welcome event, page 4.11
- Wiper mode, page 4.11
- Wiper sensitivity, page 4.11

## Central Display Settings

### Auto-fold mirrors

When **On** is selected, the exterior mirrors will fold as the vehicle is locked and unfold when the door is opened. If **Off** is selected, the mirrors will remain in their driving position.

### Comfort Entry/Exit

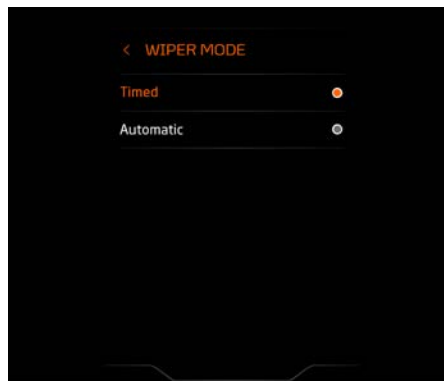
When comfort entry/exit is **On**, the driver's seat will move fully rearwards and to its lowest position and the steering wheel will move inwards and to its highest position when the engine is off and the driver's door is opened.

When comfort entry/exit is **Off**, the driver's seat and steering wheel will remain in position at all times.

### Welcome event

Touch **Welcome Event** to toggle the start up animation **On** and **Off**.

### Wiper mode

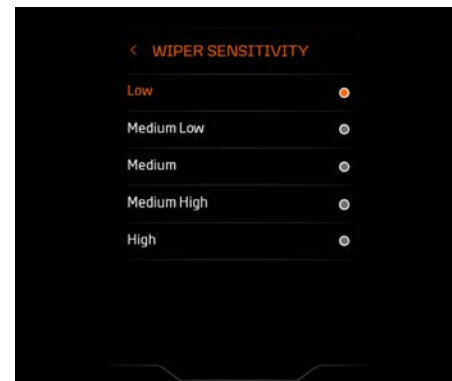


Select either **Automatic** or **Timed**.

With **Automatic** selected, wiper operation in the auto position will be controlled by the rain sensor. To set the sensitivity of the rain sensor, see Wiper sensitivity, page 4.11.

With **Timed** selected, wiper operation in the auto position will be an intermittent wipe.

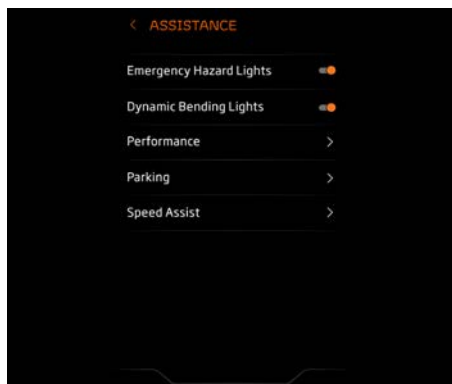
### Wiper sensitivity



Select the sensitivity level to suit your preference for wiper operation. This setting will apply for the rain sensor sensitivity level only and will not affect the intermittent wipe time delay.

# Central Display Settings

## Assistance



The following assistance settings are available:

- Emergency hazard lights, page 4.12
- Dynamic Bending Lights, page 4.12
- Performance, page 4.12
- Parking, page 4.12
- Speed assist, page 4.13

### Emergency hazard lights

Touch **Emergency Hazard Lights** to toggle the function **On** or **Off**.

When the feature is on, the vehicle will automatically switch on the hazard lights under sudden, heavy braking.

### Dynamic Bending Lights

The Dynamic Bending Lamps adjust the beams when cornering, providing improved illumination in the direction of travel. Set Dynamic Bending Lamps **On** to activate this feature, to deactivate, select **Off**.

### Performance

Performance Shift Cue (PSC) is an audible shift indicator, which will sound during full throttle acceleration in manual gearbox mode, to indicate that an upshift is required to maintain optimum performance.

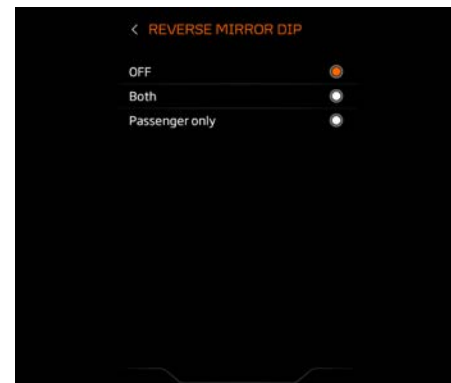
Touch **Performance Shift Cue** to toggle the function **On** or **Off**.

### Parking

#### Camera guidelines

Guidelines are fed onto the live video feed as a guide to the proximity of visible objects to the rear of the vehicle. Touch **Camera Guidelines** to toggle the function **On** or **Off**.

## Reverse mirror dip



**Off** - no mirror dip will occur when reverse is engaged.

**Both mirrors** - both mirrors will dip when reverse is engaged.

**Passenger side mirror** - passenger's side mirror will dip when reverse is engaged.

To set the amount the mirrors will dip when reverse is selected:

1. Switch the ignition on.

## Central Display Settings

2. Select **Both mirrors** or **Passenger side mirror** in the mirror dip section of the cluster.
3. Depress the brake pedal and select reverse gear.
4. Adjust mirror(s) to desired position, see Exterior mirrors, page 1.31.
5. Take vehicle out of reverse.

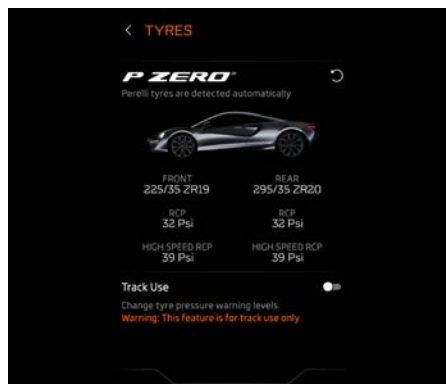
The next time reverse is selected, the vehicle will automatically move the mirror(s) to the previously set offset from the normal position.

### Speed assist

When **Speed Limit Display is On** is selected, the speed limit for the current road will be displayed on the Driver Display if available.

Touch **Speed Limit Display** to toggle the function **On** or **Off**.

## Tyres



This shows the size, the Recommended Cold Pressure (RCP) and the High Speed RCP for the front and rear tyres.

See Wheel and tyre sizes, page 7.08 and Tyre pressures, page 7.09 for further information.

**i** NOTE: Tyres with sensors fitted are detected automatically.

 When new tyres with sensors are fitted, touch the reset icon in order to update the displayed pressures and sizes of the new tyres.

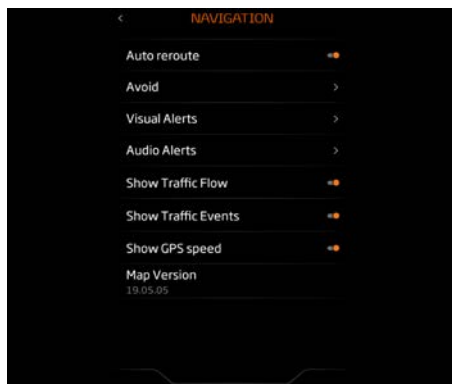
**i** NOTE: When the tyre reset icon is used, any related tyre pressure warnings will be cleared. If the warnings persist, contact your McLaren retailer.

McLaren recommend that you only use tyres with sensors fitted, see Wheel and tyre sizes, page 7.08. If tyres that do not have sensors fitted are used, the tyre pressure monitoring system (TPMS) will not work and a warning lamp will be illuminated, see Instruments and warning lights, page 2.05.

For track tyre pressures, see Track mode, page 2.35.

# Central Display Settings

## Navigation



The following navigation settings are available:

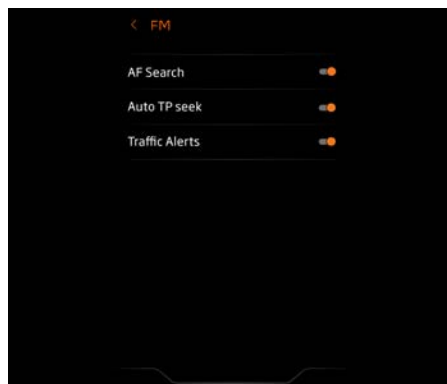
- Auto reroute
- Avoid
- Visual alerts
- Audio alerts
- Show traffic flow
- Show traffic events
- Show GPS speed
- Map version

## Media

The following media settings are available:

- FM, page 4.14

### FM



The Alternative Frequency (AF) feature automatically selects the strongest signal for radio reception. As your vehicle moves away from one transmitter and nearer to another, AF will switch transmitters to maintain the best reception possible. Set **AF Search** to **On** to enable this feature, select **Off** to deactivate.

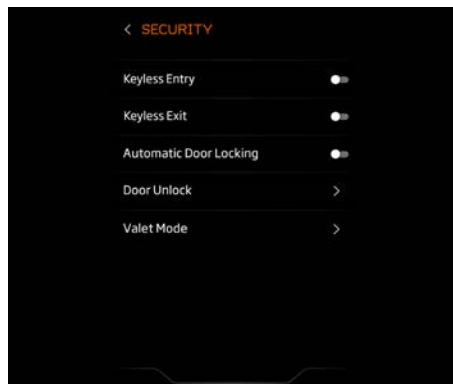
The Traffic Programme (TP) setting is used to search only for radio stations that regularly broadcast traffic bulletins. Touch **Auto TP Seek** to toggle the function **On** or **Off**.

Traffic Alerts (TA) interrupts radio and media playback to inform the driver of traffic conditions. Touch **Traffic Alerts** to toggle the function **On** or **Off**.



# Central Display Settings

## Security



The following security settings are available:

- Keyless entry, page 4.15
- Keyless exit, page 4.15
- Automatic door locking, page 4.15
- Door unlock, page 4.15
- Valet Mode, page 4.16

### Keyless entry

Keyless entry allows the user to unlock and disarm the vehicle by simply approaching the vehicle. The key fob needs only to be on the user's person or in a non-metallic container such as a bag. It does not need to be exposed or handled. The vehicle will unlock and the alarm will be disarmed when the key fob is within 1.2 m (3 ft 11 in) of a door. See Keyless entry, page 1.02.

Touch **Keyless entry** to toggle this feature On and Off.

### Keyless exit

Keyless exit allows the user to lock and arm the vehicle by simply walking away from the vehicle. The key fob needs only to be on the user's person or in a non-metallic container such as a bag. It does not need to be exposed or handled. The vehicle will lock and the alarm will be armed when the key fob moves further than 5 m (16 ft 5 in) from the vehicle. See Keyless entry, page 1.02.

Touch **Keyless exit** to toggle this feature On and Off.

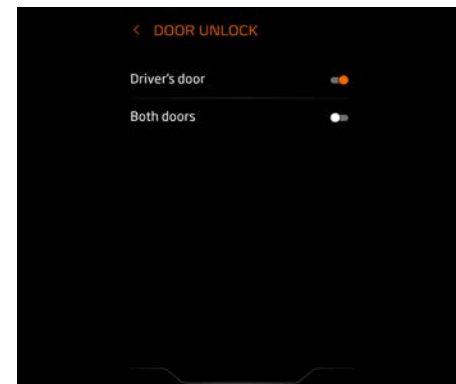
### Automatic door locking

When you receive the vehicle, automatic door locking will be set to On.

The vehicle doors will automatically lock as the vehicle moves off.

Select **Off** to deactivate this feature. The doors remain unlocked after moving off, unless they are locked manually.

### Door unlock



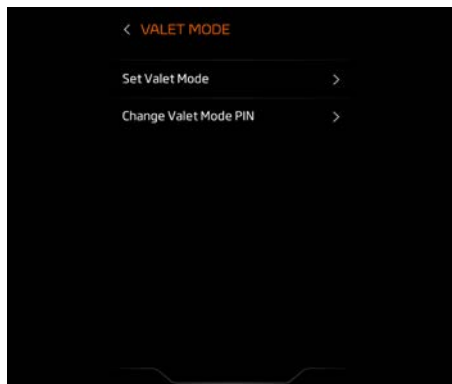
When **Driver's door** is selected, only the driver's door will unlock when the vehicle is unlocked with either the key fob or door button.

When **Both doors** is selected, both doors will unlock when the vehicle is unlocked using either the key fob or door button.

## Central Display Settings

All closures will lock with either **Driver's door** or **Both doors** selected.

### Valet Mode



With valet mode on, the speed of the vehicle is limited to 35 mph (55 km/h), the Active Dynamics Panel is disabled, the luggage compartment remains locked and a confirmation message appears on the Driver Display.

To switch on valet mode you must input a PIN code after selecting **Set Valet Mode**.

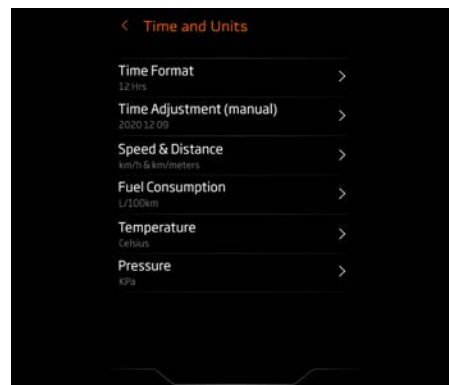
Enter the four digit PIN code using on-screen key pad, then touch **Enter** to confirm. An asterisk replaces each number as it is entered.

The factory set PIN code is **0000**. Use this PIN code the first time to switch on valet mode. You should change this PIN code at the earliest opportunity.

Select **Change PIN code**, then enter the old PIN code, followed by a new PIN code using on-screen key pad, then touch **Enter** to confirm.

When valet mode is **On**, enter the PIN code to switch valet mode off.

### Time and Units

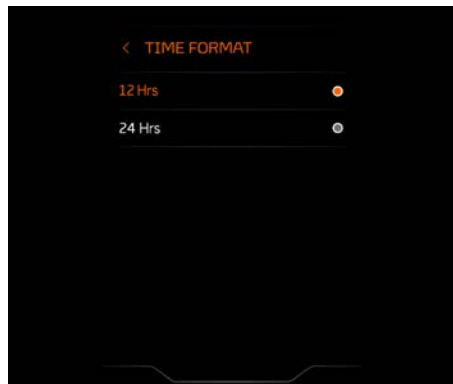


The following time and units settings are available:

- Time Format, page 4.17
- Time Adjustment, page 4.17
- Time Zone, page 4.17
- Speed & Distance, page 4.17
- Fuel Consumption, page 4.18
- Temperature, page 4.18
- Pressure, page 4.18

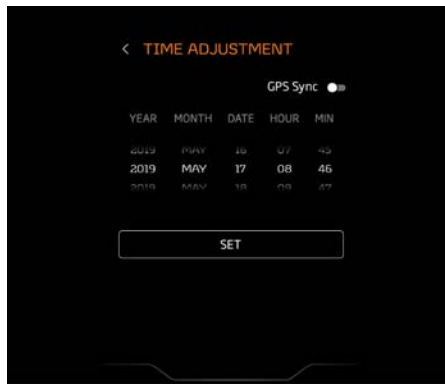
# Central Display Settings

## Time Format



Select 12 Hrs for 12 hour or 24 Hrs for 24 hour format.

## Time Adjustment



GPS sync automatically adjusts the time using the GPS signal. Touch GPS Sync to toggle the function On or Off.

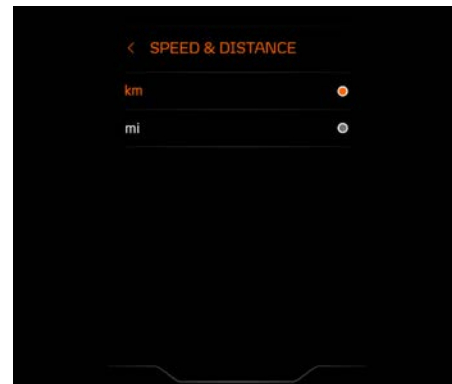
GPS sync must be set to Off before the time can be manually adjusted.

Use the on-screen controls to manually adjust the time and date.

## Time Zone

Select the appropriate time zone for your location.

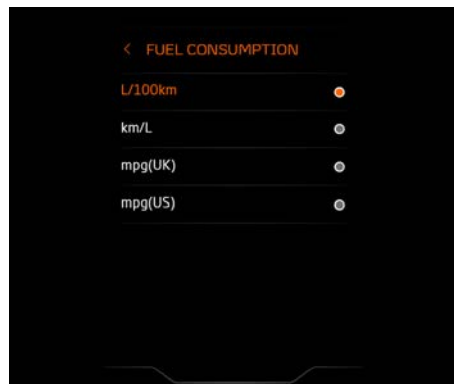
## Speed & Distance



Select km or mi.

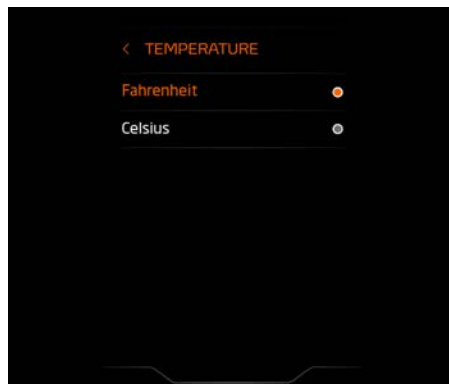
## Central Display Settings

### Fuel Consumption



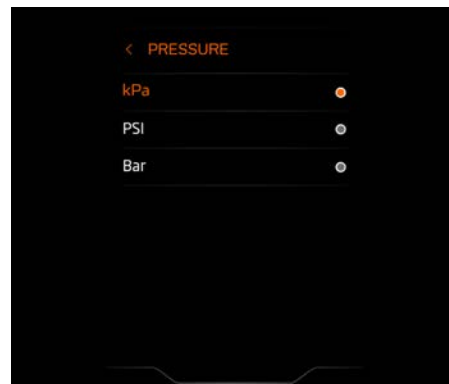
Select L/100km, km/L, mpg(UK) or mpg(US).

### Temperature



Select Fahrenheit or Celsius.

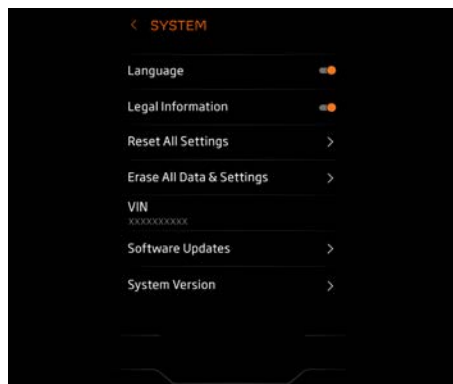
### Pressure



Select kPa, PSI or Bar.

# Central Display Settings

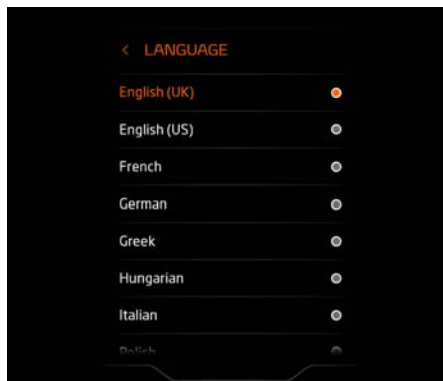
## System



The following system settings are available:

- Language, page 4.19
- Legal information, page 4.19
- Reset all settings, page 4.19
- Erase all data and settings, page 4.20
- VIN , page 4.20
- Software updates, page 4.20
- System version, page 4.20

## Language

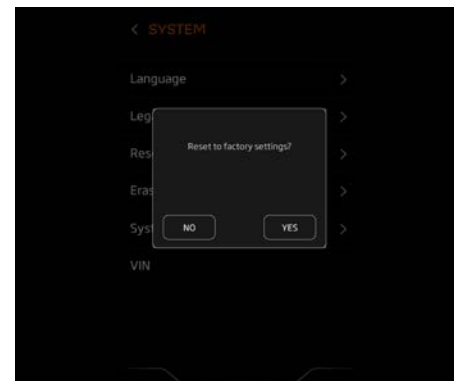


Select your preferred language from the list.

## Legal information

Select this option to view the available legal information relating to your vehicle and the McLaren Infotainment System (MIS).

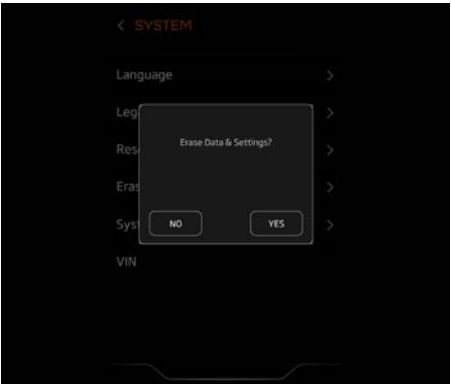
## Reset all settings



Select Yes to reset all vehicle and MIS settings to the factory default.

# Central Display Settings

## Erase all data and settings



Select **Yes** to erase all user data and reset all vehicle and the MIS settings to the factory default.

## VIN

Displays the vehicle identification number (VIN). See Vehicle identification number (VIN), page 7.03.

## Software updates

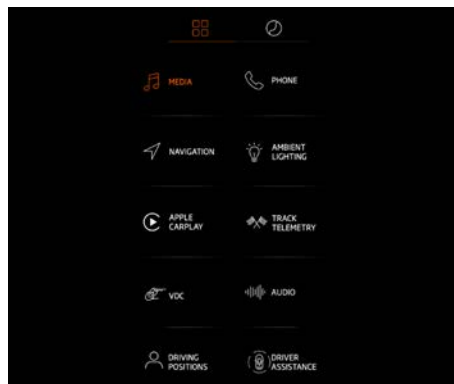
Your McLaren supports the download and installation of over-the-air (OTA) software updates. These OTA updates allow the software for certain components and systems to be kept up to date, without the need to visit your McLaren retailer. See Over-the-air (OTA) software updates, page 4.48.

## System version

Displays the software version installed on the McLaren Infotainment System (MIS).

# Central Display Media

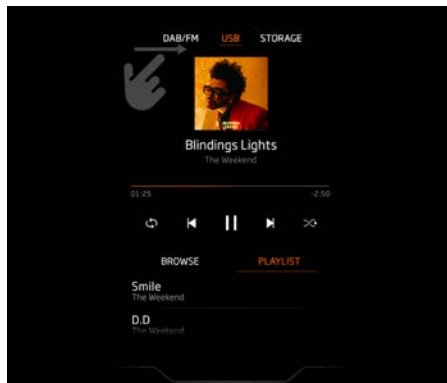
## Overview



The functions of the media player can be accessed by touching the Media icon on the McLaren Infotainment System (MIS) Apps Home screen or the Widgets Home screen.

Selecting Media will present the available audio sources.

## Audio sources



If music devices are connected to the USB port and Bluetooth®, all sources will appear on the screen, with their respective symbols at the top of the screen.

## Supported media devices

For a list of current compatible media devices, please contact your McLaren Retailer.

## Supported media files

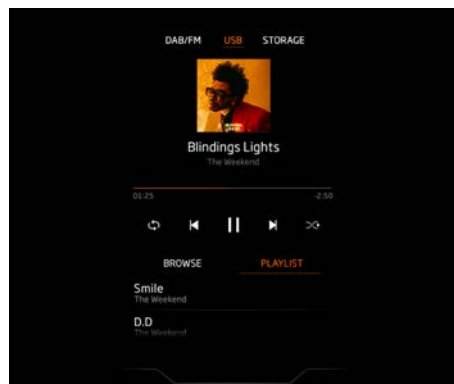
The media system can play files of the following format/encoding combinations.

## Audio:

- MP3
- AAC
- WMA
- OGG Vorbis
- AC3
- AMR
- FLAC
- WAV
- AIFF

# Central Display Media

## Media controls



Music played from the internal storage or connected device can be controlled using the McLaren Infotainment System (MIS) touch screen.

Once music has started playing, the artist's name, the album title and the song title will appear on the screen. If there is any artwork associated with the song, that will also be displayed, if no artwork is available, a representation of a musical note will be shown.

A single touch of  will skip to the next track. A single touch of  will skip to the start of the current track, a second touch will skip to the previous track.

To pause a track, touch the  icon. To resume play, touch the  icon. A track can also be paused or played by tapping the screen.

To randomly play through the current selection, press the  icon. The icon will turn amber when random is active.

Press the  icon to cycle through the available repeat options:

- Repeat off.
- Repeat one - this will repeat the currently playing track.
- Repeat all - this will repeat all tracks in the current playlist.

The icon will change to indicate which repeat option is active.

 **NOTE: This function is not available for Bluetooth® devices.**

## Connecting an external device



Two USB sockets are located inside the centre console stowage compartment.

Open the centre console and connect the USB device as required.

1. USB-C socket.
2. USB-A socket.

The USB sockets can be used to connect USB flash drives, iPods and other compatible MP3 players.



## Central Display Media

**i** NOTE: The USB-C socket (1) should be used for Apple CarPlay®.

These sockets can also be used to charge compatible mobile phones or media devices.

Ensure that the centre console is closed before driving.

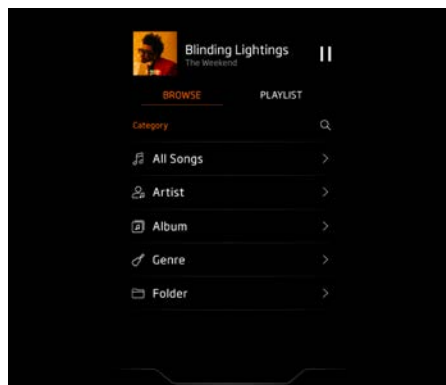
See Device pairing, page 4.29 for details on connecting a Bluetooth® device.

### USB and iPod

Connect a USB device, see Connecting an external device, page 4.22.

From the Media screen, select USB.

**i** NOTE: Any internal batteries fitted to your device will be charged through the USB port.



- All songs
- Artist
- Album
- Genre

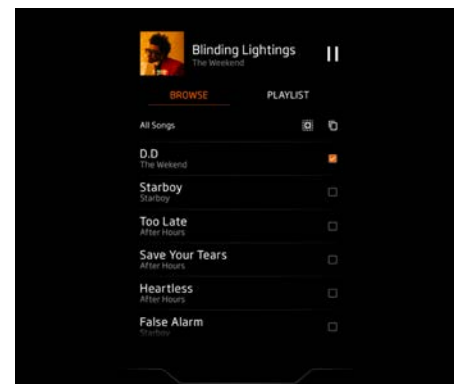
- Folder

Browse to the folder or playlist you wish to listen to, select a track to begin playing.

Touch  and use the on-screen keyboard to search for audio files.

### Copy to storage

Use the copy function to copy music files from a USB device to storage.



1. Press and hold the track or folder you want to copy.

## Central Display Media

2. Select other tracks or folders you want to copy, or touch  to select all items in the current list.
3. Touch  to copy the files selected.
4. Chose the destination folder, or touch  to create a new folder.
5. Touch PASTE to paste the items.

### Storage

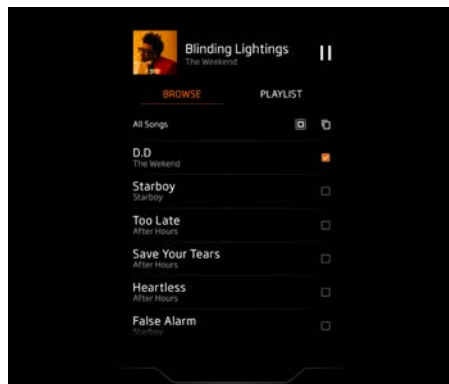
From the Media screen, select Storage.

Browse to the folder or playlist you wish to listen to, select a track to begin playing.

### Import files

Files can be imported from a connected USB device. See Copy to storage, page 4.23.

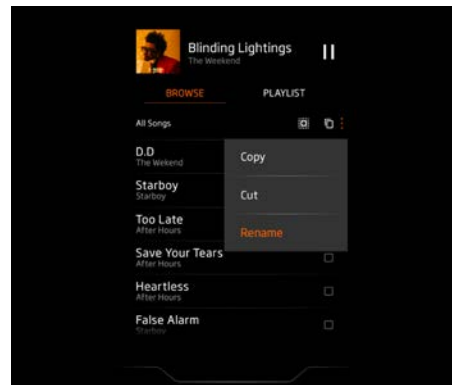
### Erase storage



1. Press and hold the track or folder you want to erase.

2. Select other tracks or folders you want to erase, or touch  to select all items in the current list
3. Touch  to erase the selected files.
4. Confirm that you are sure you want to delete the selected items.

### Rename

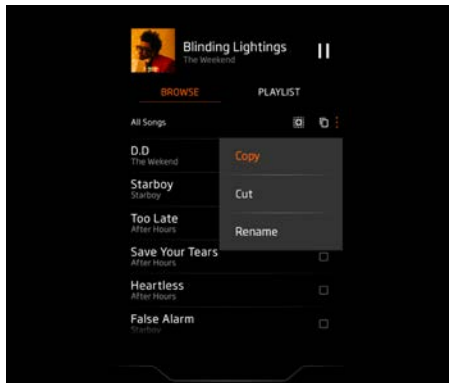


1. Press and hold the track or folder you want to rename.
2. Touch  to open the menu.
3. Select Rename, and enter the new name.

## Central Display Media

4. Touch **OK** to confirm the new name.

### Move or Copy



1. Press and hold the track or folder you want to move or copy to another folder.
2. Select other tracks or folders you want to move or copy, or touch  to select all items in the current list.
3. Touch  to open the menu.
4. Select the destination folder, or touch  to create a new folder.
5. Touch **Paste** move or copy the items to the selected folder.

### Bluetooth audio

Connect a Bluetooth® device, see Device pairing, page 4.29.

From the Media screen, select the Bluetooth audio source.

Music may begin playing automatically, depending on the Bluetooth® device connected.

If music does not start playing automatically, select play on the device itself.

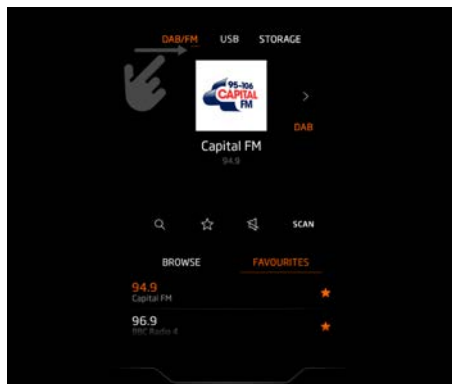
The Bluetooth® symbol  will appear at the top of the screen while music is playing.

The volume can be adjusted using the McLaren Infotainment System (MIS), see System controls, page 4.04.

Audio volume is dependent on the output volume of the device attached, and the MIS volume.

# Central Display Media

## Radio



- DAB/FM, page 4.26

Select one of the radio functions in the McLaren Infotainment System (MIS) media screen. Swipe gestures are used to switch audio sources. The radio will launch and tune to the previously selected station.

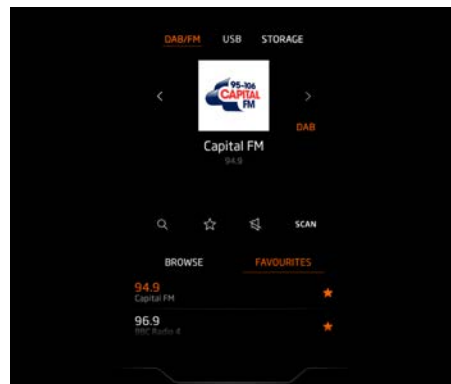
The waveband currently selected is displayed at the top of the screen.

## DAB/FM

The radio can receive the digital DAB signal and the analogue FM signal for the available radio stations.

If the DAB signal quality declines or is lost for the selected station, the system attempts to play the associated FM station until the DAB signal is restored.

## Radio controls



A station can be selected by either manually tuning or selecting a favourite. The frequency will be displayed on the screen along with the station name if available.

**i** **NOTE:** If the station frequency changes, the favourite preset will have to be set again.

To automatically tune to the previous or next available station, touching the ◀ or ▶ icons.

Touch the 🔍 icon to search radio stations and the keypad will appear.

## Central Display Media

Touch the  icon to save a station as a favourite.

Touch the  icon to mute the radio.

Touch the **SCAN** to scan for available radio stations.

### Radio data system (RDS)

RDS is a system which allows digital data to be sent to radio receivers at the same time as the FM signal.

Two types of digital data can be received and their status shown on the screen: Alternative Frequencies and Traffic Alerts.

#### Traffic alert (TA)

Traffic alerts interrupt radio and media playback to inform the driver of traffic conditions.

TA can be toggled **On** or **Off** in the Settings menu, see FM, page 4.14.

### Apple CarPlay

If you have a compatible Apple iPhone®, you can use Apple CarPlay® through the McLaren Infotainment System (MIS). Connect a compatible Apple device to the USB-C socket located in the centre console stowage compartment, see Connecting an external device, page 4.22.

When a compatible device is connected, press the button on the end of the left-hand stalk to activate the device's voice assistant, see Voice Recognition, page 4.41.

For instructions on how to use Apple CarPlay® see:

<https://support.apple.com/en-gb/HT205634>

For more information on Apple CarPlay®, see:

<https://www.apple.com/uk/ios/carplay/>

# Central Display Phone

## Overview



The McLaren Infotainment System (MIS) provides the facility to make and receive calls safely and hands-free, by connecting to your mobile phone using Bluetooth®.

The connection provides you with access to the contacts and call history stored on your phone.

The MIS can deal with conference calls, if supported by the connected phone, but cannot initiate them.



**WARNING: Do not allow yourself to become distracted by the phone while driving. You could cause an accident.**

## Safety precautions



**WARNING: Never attempt to operate the phone while the vehicle is moving. You could become distracted and cause an accident.**



**WARNING: Always store your phone securely. Unsecured objects can become dangerous missiles in the event of an accident.**



**WARNING: Always switch off the phone in areas with a high risk of explosion. These areas include filling stations, fuel storage areas or chemical factories, as well as places where the air contains fuel vapour, chemicals or metal dust. The operation of cardiac pacemakers or hearing aids may be impaired when the phone is in use. Check with your doctor or the manufacturer of the equipment to establish if anyone who is using such devices, is sufficiently protected against high frequency energy.**

McLaren recommend that, to avoid potential interference, a minimum distance of 15 cm (6 in) is maintained between a wireless phone antenna and a cardiac pacemaker.

## Bluetooth®

Bluetooth® is the short-range radio frequency (RF) technology which allows electronic devices to communicate with each other wirelessly.

Compatible Bluetooth® phones can be used in conjunction with the MIS.

The MIS system supports Bluetooth® Hands-Free Profile 1.6 (HFP 1.6). If the mobile phone connected to the system also supports this profile, features such as battery meter and signal strength may be displayed on the screen.

Your mobile phone must be paired and connected with the MIS before it can be operated, see Device pairing, page 4.29 and Connecting a phone, page 4.29.

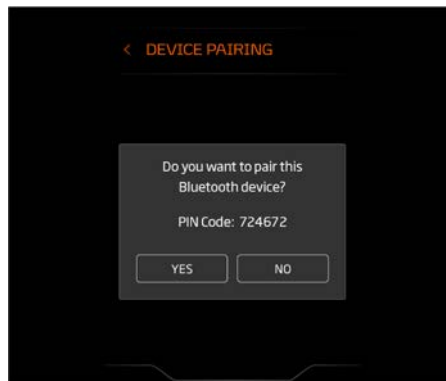
# Central Display Phone

## Device pairing

1. By default, Bluetooth® will be switched on and the McLaren Infotainment System (MIS) will be in discoverable mode. If Bluetooth® is not on, switch on manually, see Bluetooth, page 4.09.
2. Using your mobile phone, select the search for Bluetooth® devices function.

**i** **NOTE:** On some phones, this is referred to as a new paired device. Refer to your phone's operating instructions for the exact description.

3. Select "MIS" from the list of available devices.
4. The MIS will display a passkey.



5. Select **Yes** to confirm that the passkey displayed on the MIS is the same as the passkey displayed on your phone.
6. Select **Pair** on your phone.
7. While pairing some devices which support internet connection sharing via Bluetooth®, you may have to choose which Access Point Name (APN) your device will use to access the internet.

Select the option appropriate to your device and contract.

Internet sharing via Bluetooth® can be disabled using the settings on your phone.

8. Once your phone has been paired and connected to the MIS, it will connect automatically whenever it comes within range.
9. If it does not automatically connect, it will be necessary to connect manually to the MIS, using the mobile phone controls.

## Pairing additional devices

The procedure for connecting additional devices is the same as when pairing the first phone, see Device pairing, page 4.29.

A maximum of 15 devices can be paired with the MIS, but only two can be connected at a time.

**i** **NOTE:** If the maximum number of devices are already connected to the MIS, an additional device can be paired, but will not be connected. The original devices will remain connected to the MIS.

## Connecting a phone

If you have already paired a phone, the MIS will automatically reconnect to it when the phone comes within range unless other devices are connected.

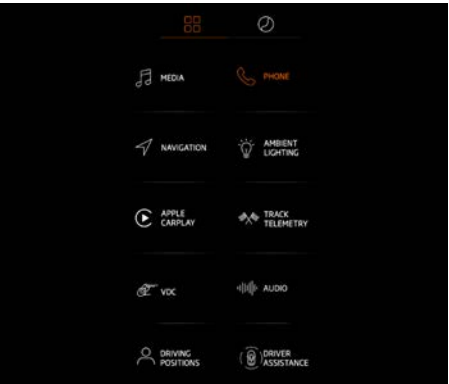
# Central Display

## Phone

**NOTE:** Some phones must be manually connected.  
Some phones require the connection to be authorised each time. Set MIS as authorised in the phone's known device list, to prevent this.

Your phone will be disconnected when the MIS or the vehicle is switched off. Automatic reconnection may take several seconds when the vehicle or the MIS is switched on again.

### Making a call

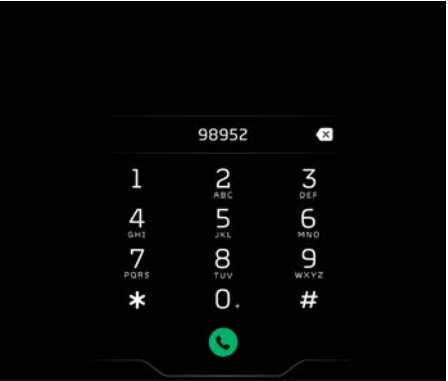


There are a number of ways of making a call, these are explained in the following pages.

To switch to the phone application, touch the Phone icon on the McLaren Infotainment System (MIS) Apps Home screen or the Widgets Home screen.

**NOTE:** You cannot make a call when McLaren Track Telemetry (MTT) is running. To make a call, end any MTT session that is in progress. Any accepted incoming calls will stop a MTT session recording and divert to the phone screen.

### Using the keypad



1. From the Phone screen, touch the  icon.
2. Phone numbers can be entered using the on-screen keypad.



# Central Display Phone

If you enter an incorrect number or digit, touch the  icon to delete the last digit.

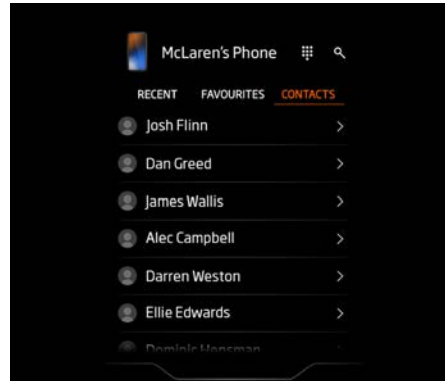
3. Touch the  icon when the complete number is displayed on the screen to begin the call.

 **NOTE:** The circle around the contact symbol is yellow during dialling, and changes to green when the call is connected.

4. A call can be cancelled, while the system is dialling, by touching End Call or the phone button.

 **NOTE:** Any media or radio play will be muted while a call is in progress.

## Using contacts



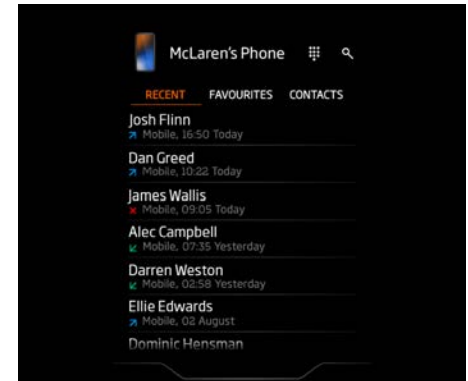
1. From the Phone screen, touch the **CONTACTS** tab.
2. Once your contacts are displayed, a specific person can be found by scrolling through the list.
3. Select a contact to view all available phone numbers for that contact. Touch the required number to begin the call.

 **NOTE:** The circle around the contact symbol is yellow during dialling, and changes to green when the call is connected.

4. A call can be cancelled, while the system is dialling, by touching End Call or the phone button.

 **NOTE:** Any media or radio play will be muted while a call is in progress.

## Using call history



1. From the Phone screen, touch the **RECENT** tab.
2. A list of dialled, missed and received calls will be displayed in chronological order with most recent on top.

# Central Display Phone

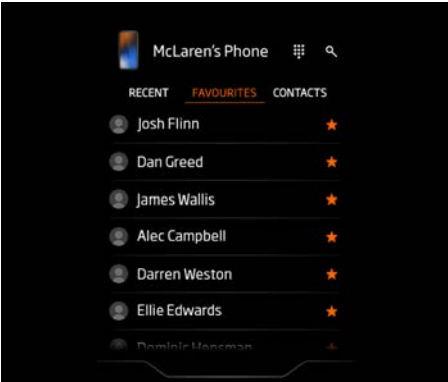
- 3. Touch the required contact to begin the call.

**i** NOTE: The circle around the contact symbol is yellow during dialling, and changes to green when the call is connected.

- 4. A call can be cancelled, while the system is dialling, by touching End Call or the phone button.

**i** NOTE: Any media or radio play will be muted while a call is in progress.

## Favourites



- 1. From the Phone screen touch the favourites tab.
- 2. A list of your favourite contacts will be displayed.
- 3. Touch the required contact to begin the call.

**i** NOTE: The circle around the contact symbol is yellow during dialling, and changes to green when the call is connected.

- 4. A call can be cancelled, while the system is dialling, by touching End Call or the phone button.

**i** NOTE: Any media or radio play will be muted while a call is in progress.

## Receiving a call



When you receive an incoming call, the McLaren Infotainment System (MIS) will display any caller details which are stored on your phone and synchronised with the MIS.

To accept the call, touch the green  icon.

To decline the call, touch the red  icon.

# Central Display Phone

## In-call options

 Touch the keypad icon to launch the on-screen keypad, touch again to hide it.

 Touch the mute icon to disable the microphone, touch again to enable it.

 Touch the pause icon to put the call on hold.

 Touch the plus icon to add another caller. Select a contact from your contacts list and begin a conference call.

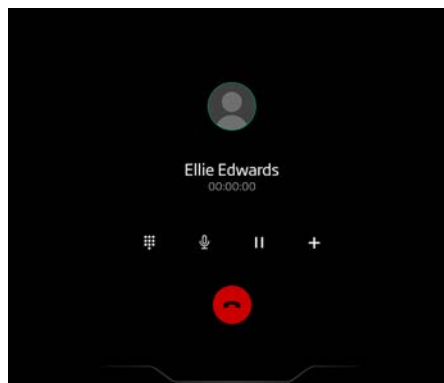
 Touch the merge icon to merge two calls into a conference call. The merge icon replaces the plus icon when the option is available.

 Touch the switch to phone icon to transfer the call to your phone handset, touch switch to speakers to transfer back.

Press the home button to view the home screen during a phone call. You can access other features of the McLaren Infotainment System (MIS) during a call. The current call will be minimised at the top of the display.

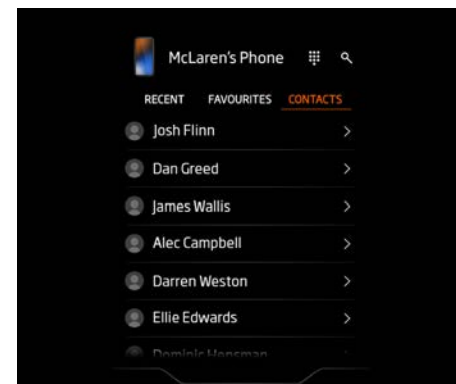
## Ending a call

Touch **End Call** to end the phone call. The screen will return to the phone menu.



 To end a call while viewing a different system screen, touch the red end call icon adjacent to the call in progress display at the top of the screen.

## Contacts



1. From the Phone screen, touch the contact tab.

 **NOTE:** Dependent on phone model, pictures of contacts stored on your phone, will be displayed on the screen alongside the contact name.

2. If your contact list extends beyond the depth of a single screen, scroll up and down the list by swiping your finger upwards or downwards on the screen.

## Central Display Phone

- Alternatively, you can search for a contact using the on-screen keyboard, see Search, page 4.34.
- Select a contact to view all available information for that contact.

**i** NOTE: Dependent on phone model, if pictures of contacts are stored on your phone, these will be displayed on the screen during a call if contacts have been synchronised with the MIS.

- Touch the required number to begin the call.

**i** NOTE: The circle around the contact symbol is yellow during dialling, and changes to green when the call is connected.

- A call can be cancelled, while the system is dialling, by touching End Call or phone button.

**i** NOTE: Any media or radio play will be muted while a call is in progress.

**i** NOTE: To tag a contact as a favourite touch ☆. Touch ☆ again to remove them from your favourites.

### Search

- Press the  icon from the contacts tab.
- Using the on-screen keyboard, enter at least one character to filter the displayed contacts.

If you enter an incorrect number or digit, touch the  icon to delete the last digit.

- Select a contact to view all available phone numbers for that contact. Touch the required number to begin the call.

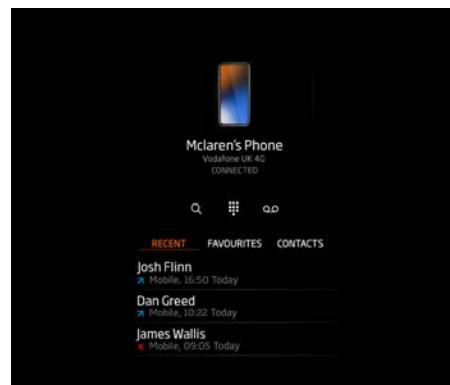
**i** NOTE: The circle around the contact symbol is yellow during dialling, and changes to green when the call is connected.

**i** NOTE: Dependent on phone model, if pictures of contacts are stored on your phone, these will be displayed on the screen during a call if contacts have been synchronised with the MIS.

- A call can be cancelled, while the system is dialling, by touching End Call or the phone button.

**i** NOTE: Any media or radio play will be muted while a call is in progress.

### Voicemail



To set up a voicemail shortcut, touch the  and follow the on-screen instructions.

To change a saved voicemail shortcut, touch and hold the  and follow the on-screen instructions.

To voicemail shortcut, touch the saved .

# Central Display Navigation

## Overview

 The navigation system uses signals from Global Positioning System (GPS) satellites together with information from vehicle sensors and map data stored on the McLaren Infotainment System (MIS) to determine the precise location of the vehicle.

Using this data, the system is able to create the optimum route to your destination, taking into account any journey preferences you may have set.

Creation of a specific route is achieved by using the on-screen menus and the MIS controls, to make your selections. This results in your route being highlighted on the map.

Once you have started a journey, turn information is displayed on the Central Infotainment Touchscreen, supplemented by voice guidance if required, at appropriate points during the journey.

When a significant diversion is made from a planned route, the system will automatically recalculate an alternative route to the destination.

## Safety



**WARNING: For your safety, ensure that you do not become distracted from the task of driving, through use of the navigation system. Read and adhere to the safety message which appears the first time you enter the navigation system after switching on the ignition.**

National road traffic laws and traffic signals must always be obeyed.

Always remember that the purpose of the navigation system is to help in determining the optimum route, it must never be considered as an aid when visibility is reduced.

GPS signals may be interrupted when travelling through tunnels or other situations where GPS signal could be blocked. Navigation will continue on the route until GPS signal is regained.

Errors in vehicle position are also possible under the conditions described, and if any of the following have occurred:

- driving inside a building e.g. a multi-storey car park
- travelling on a road with a second parallel road very close

- a turntable has been used to rotate the vehicle
- the vehicle has been transported to a different location

# Central Display Navigation

## Using Navigation



Touch the Navigation icon on the McLaren Infotainment System (MIS) Home screen.

The first time you access navigation after the ignition is switched on, the MIS displays safety warning messages. Please read these messages.

The caution message will automatically disappear once the navigation system has finished loading.

A map showing your current location will appear on the Central Infotainment Touchscreen screen.

 The location and direction of travel of your car is shown as an arrow head on the screen.

To manipulate the area of the map which is displayed, touch the screen and gently move your finger in any direction to move around the map.

Touch  to access the options for setting a destination, see Setting a destination, page 4.37.

The MIS has a multi-touch screen, allowing easy zooming in and out using pinch gestures. Touch the screen with thumb and forefinger and move them closer together to zoom out, move them further apart in order to zoom in again.

The + and - icons can also be used to zoom in and out.

Touch  to centre the screen on your current location.

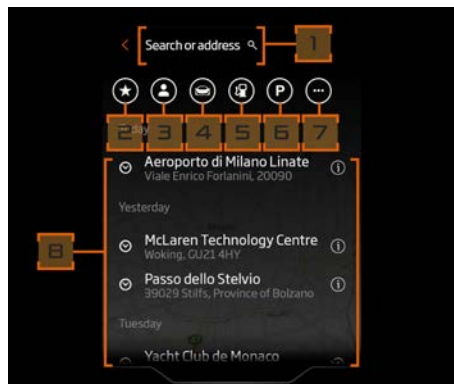
Details on the screen will change depending on the zoom setting. For example, road names and some Points of Interest (POIs) will be shown when zoomed in close, but not when zoomed further out.

The screen will also zoom in or out automatically to predefined levels depending on vehicle speed.

The screen colour will automatically change between day and night mode for easier viewing based on the time.

# Central Display Navigation

## Setting a destination



1. Search or Address, page 4.37
2. Favourites, page 4.37
3. Contacts, page 4.37
4. McLaren retailers, page 4.37
5. Fuel stations, page 4.37
6. Parking, page 4.37
7. Additional search categories, page 4.37
8. Previous destinations, page 4.37
9. Using the screen, page 4.38

10. Route Overview, page 4.38

### Search or Address



Touch Search or Address to enter a city, town or street name.

### Favourites



Touch the favourites icon to view your favourite destinations. Touch the address to set it as your new destination.

### Contacts



Touch the contacts icon to view address information stored in your contacts. Touch the address to set it as your new destination.

### McLaren retailers



Touch the McLaren icon to locate your nearest McLaren retailer. A list of McLaren retailers is shown with the nearest at the top of the list. Touch the address to set it as your new destination.

### Fuel stations



Touch the fuel icon to locate your nearest fuel station. A list of fuel stations is shown with the nearest at the top of the list. Touch the address to set it as your new destination.

### Parking



Touch the parking icon to locate your nearest parking area. A list of parking areas is shown with nearest at the top of the list. Touch the address to set it as your new destination.

### Additional search categories



Touch the additional icon to see additional search categories. Use this function to search for points of interest including: airports, ATM's, hotels, hospitals and shops.

### Previous destinations

Previous destinations are shown in a list in date order. Touch a previous destination to set it as your new destination.

## Central Display Navigation

### Using the screen

Manually move around the map, until the map is displayed at the most effective scale for locating the general area of your destination.

Touch the map to mark the position of your desired destination.

### Route Overview

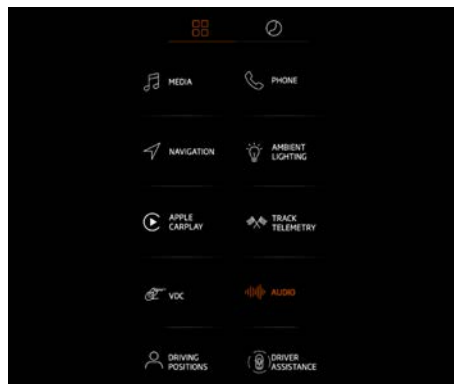
Once your destination has been selected, an overview will be displayed, with your route highlighted. Your start position, current position, any waypoint(s) and your destination will be shown along the highlighted route.

Select  to save the destination as a favourite or **Go!** to begin navigation.



# Central Display Audio

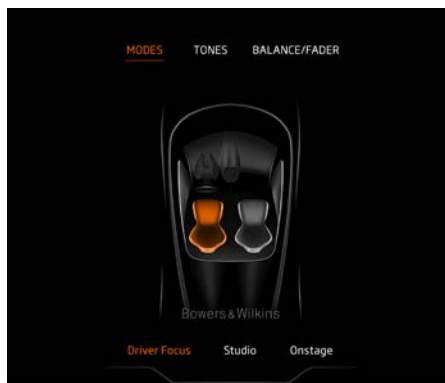
## Overview



Touch the audio icon to display the audio setting screen.

**i** NOTE: The audio settings available will vary depending on the audio options fitted to your unique vehicle.

The audio settings apply to all functions of the McLaren Infotainment System (MIS).



Swipe across the top of the screen to select from the following options:

- Modes, page 4.39
- Tones, page 4.39
- Balance/Fader, page 4.40

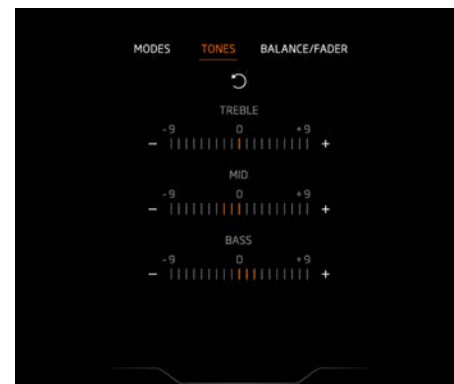
## Modes

There are 3 preset audio modes.

- Driver Focus - Optimised listening for the driver seat.
- Studio - True sound. As the artist intended. This is the default mode.

- Onstage - Surround Sound Envelopment.

## Tones



 Touch the reset icon to reset the currently viewed settings to their default values.

## Treble

Touch the + or - icons adjacent to treble to achieve the desired sound reproduction quality. The range is 0 to +9 or 0 to -9 in increments of 1.

## Central Display Audio

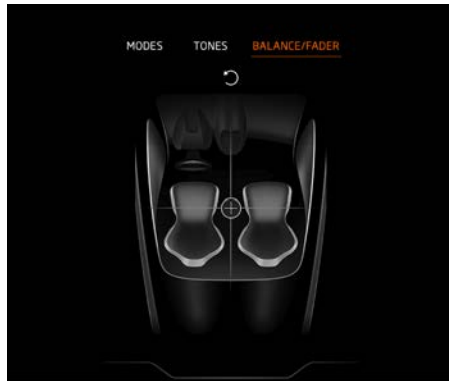
### Mid

Touch the + or - icons adjacent to mid to achieve the desired sound from the speakers. The range is 0 to L9 or 0 to R9 in increments of 1.

### Bass

Touch the + or - icons adjacent to bass to achieve the desired sound reproduction quality. The range is 0 to +9 or 0 to -9 in increments of 1.

### Balance/Fader



Touch the reset icon to reset the currently viewed settings to their default values.

Touch and drag the cross-hair to adjust the balance and fader.

## Central Display Voice Recognition

### Overview



**i** NOTE: The level of functionality provided by the voice recognition feature will depend on the device connected.

A mobile phone must be paired and connected with the McLaren Infotainment System (MIS) before the voice recognition feature can be used, see Device pairing, page 4.29, Connecting an external device, page 4.22 and Apple CarPlay, page 4.27.

Press the button on the end of the left-hand control stalk to activate the voice recognition function of a connected device.

# Central Display

## McLaren Track Telemetry

### Overview

**WARNING:** For your safety, ensure that you do not become distracted from the task of driving, through use of any of these systems.

**WARNING:** McLaren Track Telemetry is intended for track use only. The driver is responsible for safety and compliance at all times.

**WARNING:** McLaren Track Telemetry can be used on the road and is intended for recording video so that additional external cameras are not required. The driver is responsible for safety and compliance at all times.

McLaren Track Telemetry provides timing data recording and graphical visualisation when on track or on the road.

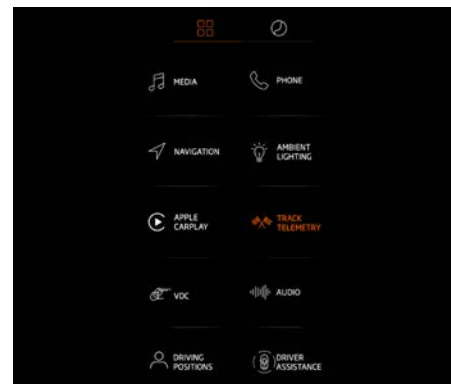
During a recording, graphical displays are provided for timing data and track maps.

Track performance can be reviewed in an analysis viewer, where you can playback a session, view lap times (split in to sectors), camera replay, data and achievements.

Custom track or road maps are created automatically and can be manually edited. Multiple layouts or configurations are supported for each venue.

Different drivers can be associated with each recording.

### Opening the application



1. Select Track Telemetry from the McLaren Infotainment System (MIS) Home screen.
2. Read and accept the disclaimer.

Although McLaren Track Telemetry can be used for the road, it is intended for track use. The driver is responsible for safety and compliance at all times.

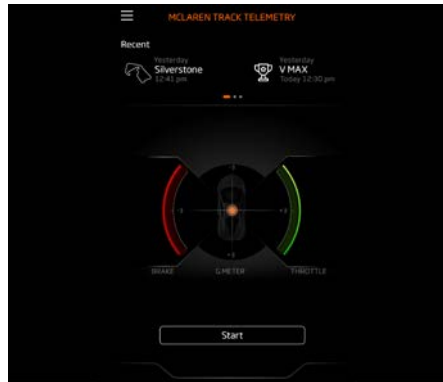
**NOTE:** When McLaren Track Telemetry is in use, Phone will not be available. You must end the session before making a phone call.

# Central Display

## McLaren Track Telemetry

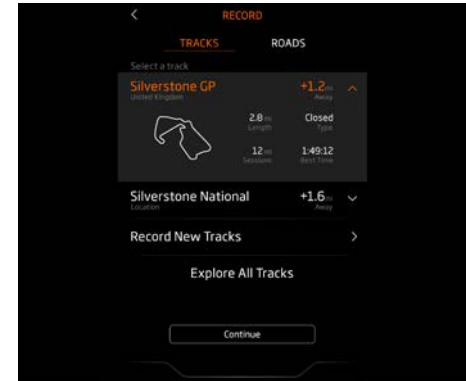
If a connected phone receives a call, McLaren Track Telemetry will stop recording.

### Setup



Open McLaren Track Telemetry and select Start to setup your session.

### Track / Road selection



1. Select a track or road, record a new track or select Explore All Tracks to select a new track from the library.

- i** NOTE: The list of tracks is dynamic and will vary based on your location, with the closest track at the top of the list. No tracks will be listed if GPS is not available.
- i** NOTE: It is possible to record both a closed circuit and a hill-climb.

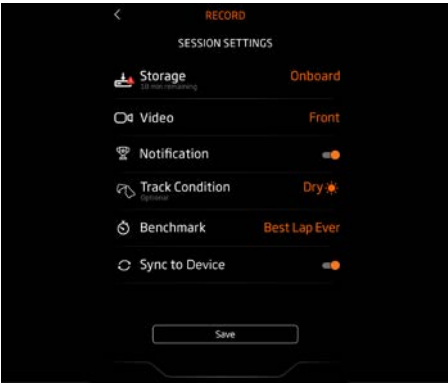
# Central Display

## McLaren Track Telemetry

**NOTE:** Only a closed circuit will be recognised by McLaren Track Telemetry.

2. Select Continue to further set up the session.

### Session settings



Select your preferred options for the session:

- **Storage** - Onboard the McLaren Infotainment System (MIS) memory, a connected USB device, see USB sockets, page 5.16, or a connected phone, see Device pairing, page 4.29.

- **Video** - Select which video camera(s) to use for the session.
- **Notification** - Touch to toggle the function On or Off.
- **Track Condition** - Optional setting to describe the condition of the track.
- **Benchmark** - Select the lap time to compare your current lap to.
- **Sync to Device** - Touch to toggle the function On or Off. When On, the session data will be automatically synchronised to the selected Storage device.

Select **Save** to save your settings and start the session.

### Drive

Once your session is underway, you can see your key data on both the Driver Display, see McLaren Track Telemetry (MTT), page 3.12 and the McLaren Infotainment System (MIS).

### Table of lap times

SILVERSTONE NATIONAL

| Time     | Delta     | Lap    |
|----------|-----------|--------|
| 01:30.09 | +01:10.08 | 88     |
| 78       | 01:30.09  |        |
| PB (12)  | 01:30.09  |        |
| Lap      | Time      | Delta  |
| 18       | 0:30.09   | -7.75  |
| 17       | 0:29.02   | +10.75 |
| 16       | 0:29.54   | -2.00  |
| 15       | 0:28.59   | -0.92  |
| 14       | 0:29.59   | -0.42  |

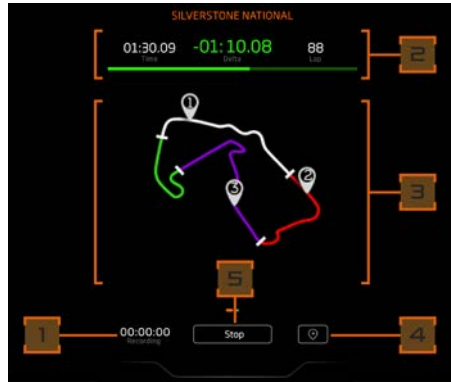
00:00:00 Stop

Swipe across from the 'Live/Track recording view' to see your lap times with highlighted deltas. The lap times are displayed in order of the most recent at the top.

# Central Display

## McLaren Track Telemetry

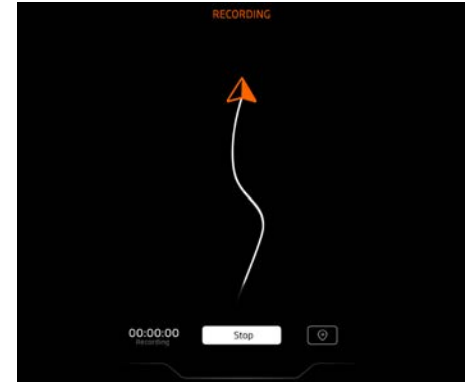
### Track recording



1. Total recording time of the session is displayed at the bottom of the screen.
2. Your current lap time, live delta and total number of laps are displayed at the top of the screen. The delta is colour coded to indicate if the lap time is above or below the target time.

3. The track layout is displayed in the centre of the screen, which shows the live vehicle position and colour coded track sections, linked to the delta time. Tap the centre of the screen to change between 3D and 2D view. The view on the Driver Display can be changed from 3D to 2D by pulling the left-hand stalk.
4. Use the icon shown to drop a marker, which can be easily located when analysing the data. Markers can also be dropped using the left-hand stalk.
5. Touch Stop to go to the session summary page.

### Road recording



This view shows the road drawn out behind the vehicle. Lap times are disabled.

### Ending your session

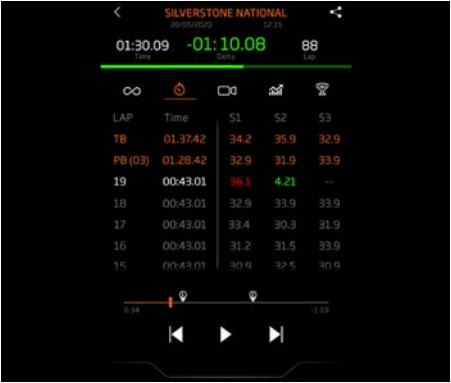
Press Finish to end the recording and view the session summary, you can then decide to end your session or continue to record.

# Central Display

## McLaren Track Telemetry

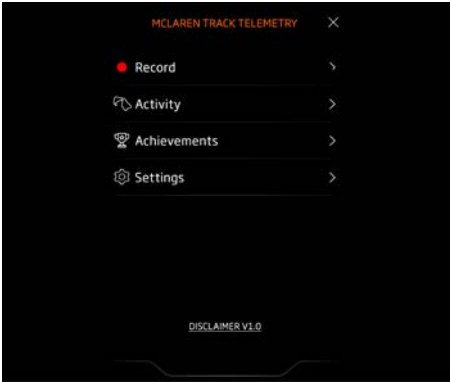
### Reviewing your data

**i** NOTE: McLaren Track Telemetry has some powerful analysis tools.



To open a session for analysis:

1. Press **≡** to open the analysis.



2. Select Activity.
3. You can search for a specific session and reorder any recorded sessions.  
Choose a track and a session.
4. Use the tabs and controls to review your data and video footage.

To navigate within a session, use the on-screen controls.

To scroll within a lap, press on the relevant part of the track or press **▶** or **◀** to move forwards or backwards through the lap.

### Importing telemetry data

**i** NOTE: Session data and user created tracks can be shared across vehicles.

#### Importing from a USB device

1. Insert a USB storage device into one of the vehicle USB ports. See USB sockets, page 5.16.
2. Session data will be detected by the application and a notification will be displayed at the top of the screen.

Select the track or session data to be imported.

**i** NOTE: You will not be able to select data that is too large for the available space on the McLaren Infotainment System (MIS).

3. Press **Import** to import data from the USB storage device.

#### Importing via Wi-Fi

1. Connect the device to import the data from, see Wi-Fi, page 4.09.
2. Follow the instructions on the connected device.



# Central Display

## McLaren Track Telemetry

### Exporting telemetry data

 **NOTE:** Session data and user created tracks can be shared across vehicles.

1. Insert a USB storage device into one of the vehicle USB ports. See USB sockets, page 5.16.
2. Alternatively, connect a device via Wi-Fi. See Wi-Fi, page 4.09.
3. Navigate to the session data to be exported. See Reviewing your data, page 4.46.
4. Touch the  icon.
5. Select the device to export the data to and follow the on-screen instructions.

### Editing a track

Stored tracks can be edited using the McLaren Infotainment System (MIS), press  and select the required track.

The following items are editable:

- Track name
- Start/finish position
- Track direction
- Sectors (number and position)

# Central Display Connected Car

## Over-the-air (OTA) software updates

Your McLaren supports the download and installation of over-the-air (OTA) software updates. These OTA updates allow the software for certain components and systems to be kept up to date, without the need to visit your McLaren retailer.

### Wi-Fi connectivity

The vehicle must be connected to a Wi-Fi network in order to download OTA software updates.

1. Turn on the vehicle's Wi-Fi, see Wi-Fi, page 4.09.
2. Select Home Wi-Fi or Mobile Wi-Fi.



**NOTE:** Charges may be incurred if using a mobile Wi-Fi network while roaming.

3. Select an available Wi-Fi network from the list and enter the required password.



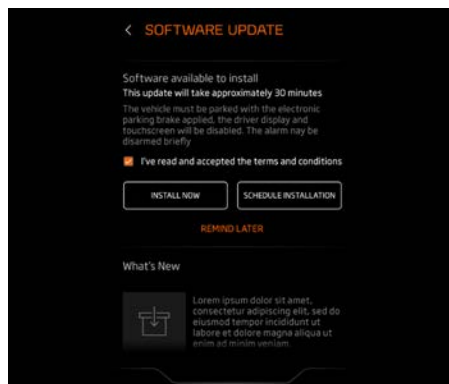
**NOTE:** In order to maintain data security and system safety, OTA updates can not be downloaded using open networks.

4. Touch Connect to complete the connection setup.

4.48

### Updating software

When the vehicle is connected to a Wi-Fi network, with the parking brake applied, available OTA software updates will be downloaded automatically.



When a software update has been downloaded and is available for install, a notification will be shown on the McLaren Infotainment System (MIS). Touch the notification to view the software update options.

The software update screen will provide the following information:

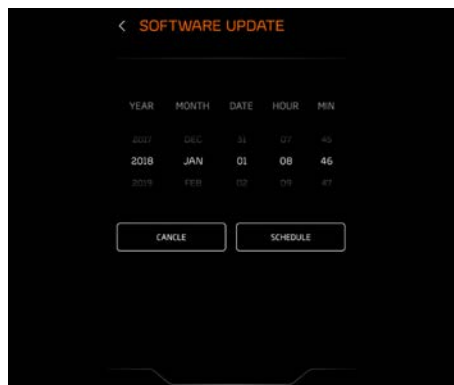
- An estimate of the duration of the update.

- Preconditions which must be met in order to run the update.
- Release notes, providing information regarding the new features or improvements the update will apply to the vehicle.

In order to install the updates:

1. Ensure the listed preconditions have been met.
2. Read the terms and conditions, then touch the  icon to accept.
3. Select **INSTALL NOW** to begin installation of the software.

## Central Display Connected Car



Alternatively, select **SCHEDULE INSTALLATION** to run the installation at a later time, within the next 24 hours, or **REMIND LATER** to postpone the installation.

During the installation, the software update screen will remain and display the progress and estimated time to completion. All other functions of the McLaren Infotainment System (MIS) will be unavailable. The Driver Display will only display messages, notification and warning lights.

**i** NOTE: During the installation, the vehicle can be accessed, but it will not be possible to start the engine or drive the vehicle.

When the installation is complete, a notification will be shown on the McLaren Infotainment System (MIS). Touch **See What's New** to view the release notes.

### eCall

**i** NOTE: eCall will only function in supported markets.

eCall is a 112 based SOS emergency call system which can be triggered, both automatically and manually:

See Automatic SOS emergency call, page 4.50.

See Manual SOS emergency call, page 4.50.

In both cases, the appropriate emergency services are despatched to the vehicle's location based on the following information collected and processed by the system:

- The vehicle's last three locations and direction of travel.
- Log file of the automatic activation of the system and its timestamp.
- Vehicle information such as VIN, propulsion type, and colour.
- Any additional data.

If the eCall system develops a fault, the amber light located on the SOS call button remains on. A warning message also appears on the Driver Display.

## Central Display Connected Car

### Automatic SOS emergency call

In the event of an accident, where the air bags have been deployed, a call is automatically made to the emergency services.

### Manual SOS emergency call



Press and hold the SOS emergency call button for two seconds, to manually initiate the emergency call.

The call can be cancelled, while dialling, by pressing the SOS call button again.



**NOTE:** Manual SOS calls must only be made in an emergency.

### eCall backup battery

A backup battery maintains full eCall system operation in the event that the vehicle's 12V battery is disconnected or disabled. If the eCall backup battery requires replacement, a warning message will appear on the Driver Display. Contact your McLaren retailer to have the battery replaced.

### EU 112 eCall information

The 112-based eCall service is a public service of general interest and is accessible free of charge.

Any processing of personal data through the 112-based eCall in-vehicle system complies with the personal data protection rules provided for in Directive 2002/58/EC and Regulation (EU) 2016/679 of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Regulation (EU) 2016/679.

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single European emergency number 112.

Recipients of data processed by the 112- based eCall system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single European emergency number 112.

The 112-based eCall system is designed in such a way as to make sure that the data contained in the system's memory is not available outside the system before an eCall is triggered.

The 112-based eCall system is designed in such a way as to make sure that it is not traceable and not subject to any constant tracking in its normal operation status.

The 112-based eCall system is designed in such a way as to make sure that data in the system's internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep a maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

## Central Display Connected Car

The log of activity data in the 112-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency and in any case not beyond 13 hours from the moment an emergency call was initiated.

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure, or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Regulation (EU) 2016/679. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure, or blocking carried out in compliance with this Regulation, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

### HomeLink

 **WARNING: Do not use HomeLink® with any garage door opener that lacks the safety stop and reverse feature.**

 **WARNING: Do not use HomeLink® with any garage door opener that was manufactured before April 1982.**

 **WARNING: When programming HomeLink® to a garage door opener or entry gate, make sure that the area is clear of people and objects. Damage or injury may occur, as the gate or garage door activates during programming.**

 **WARNING: Before programming HomeLink®, make sure that people and objects are out of the way, and park your vehicle outside of the garage.**

 **WARNING: Vehicle exhaust contains carbon monoxide, a dangerous gas. Do not run the vehicle's engine while programming HomeLink. Exhaust gas can cause serious injury or death. When programming a garage door opener, it is advised to park outside of the garage.**

 **NOTE:** It is recommended that a new battery be fitted for your garage door remote for more accurate programming.

 **NOTE:** If your garage door opener uses rolling code, you may need a stepladder or other sturdy, safe device to reach the Learn, Smart, or Program button later in the programming.

For more information and device specific programming instructions, visit [HomeLink.com](http://HomeLink.com) or [youtube.com/user/HomeLinkGentex](https://youtube.com/user/HomeLinkGentex).

The HomeLink® wireless control system replaces up to three remote controls. HomeLink® can be used to activate devices such as gate operators, garage door openers, entry door locks, security systems, and home lighting.

## Central Display Connected Car

### Programming a single HomeLink button



**WARNING:** When programming a garage door opener or gate operator, it is advised to unplug the device during the programming process. This prevents possible damage to the garage door opener or gate operator from repeat operation.



NOTE: Please note that the instructions below apply to the majority of HomeLink® compatible devices. Some HomeLink® applications or HomeLink® compatible systems require slightly different instructions, for information on compatible devices and instructional videos, visit: [www.homelink.com](http://www.homelink.com).



NOTE: Garage door openers manufactured after 1995 could be equipped with rolling code protection. In this case, refer to the manufacturer's instructions.



1. Before beginning programming, clear your HomeLink®, see Clearing your HomeLink, page 4.54.
2. Press the HomeLink® button that you would like to program, (1), (2) or (3). The HomeLink® indicator light (4) will begin flashing slowly.
3. Position the garage door opener remote control 2-8 cm (1-3 in) away from the interior mirror.
4. Press and hold the button on the garage door opener remote control, until the HomeLink® indicator light (4) changes from flashing slowly, to either solid or flashing rapidly.



NOTE: The change in flashing indicates the frequency signal has been learned.



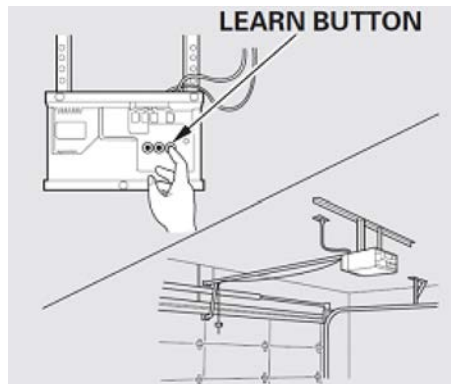
NOTE: Some remote device systems require the operator to press and release the garage door opener remote control button every 2-10 seconds during programming.

5. Press the programmed HomeLink® button two to three times. If you have a fixed code device, the HomeLink® indicator light (4) will be solid, programming is complete and the garage door should activate.

If your garage door is not functioning, and the indicator light is flashing rapidly, you likely have a rolling code device, and you will need to continue with Programming a rolling code device, page 4.53.

## Central Display Connected Car

### Programming a rolling code device



**i** NOTE: A second person may make the following steps quicker and easier. The next steps are time sensitive and may need to be tried multiple times.

1. Locate the Learn, Smart or Program button on the motor-head unit, located on the garage door opener's receiver. Refer to the garage door opener manual to identify the button.
2. Press and release the Learn, Smart or Program button. There are typically 20 seconds to initiate the next step.

3. Within 20 seconds, return to the vehicle and press and release the programmed HomeLink® button up to three separate times to activate the device. If the device activates, programming is complete.

### Programming additional HomeLink buttons

Repeat steps 2 to 5, from Programming a single HomeLink button, page 4.52.

### Reprogramming a single HomeLink button

When the following procedure is performed, buttons which already have devices programmed to them can be overwritten.



1. Press and hold the HomeLink® button that you would like to reprogram, (1), (2) or (3). The HomeLink® indicator light (4) will begin flashing slowly.
2. While continuing to hold the HomeLink® button, position the garage door opener remote control 2-8 cm (1-3 in) away from the interior mirror and press and hold the button on the garage door opener remote control, until the HomeLink® indicator light (4) changes from flashing slowly, to either solid or flashing rapidly.

**i** NOTE: The change in flashing indicates the frequency signal has been learned.

**i** NOTE: Some remote device systems require the operator to press and release the garage door opener remote control button every 2-10 seconds during programming.

3. Press the programmed HomeLink® button and observe the HomeLink® indicator light (4).

If the indicator light (4) is solid, programming is complete and your device should activate when the HomeLink® button is pressed and released.

## Central Display Connected Car

If the indicator light (4) flashes rapidly, you likely have a rolling code device, and you will need to continue with Programming a rolling code device, page 4.53.

**i** NOTE: If you do not program a new device to the button, it will revert to the previously held programming.

Before returning a leased vehicle or selling your vehicle, be sure to clear out any programmed HomeLink® buttons. To do this, press and hold the outer two HomeLink® buttons (1) and (3) for 10 seconds, until the HomeLink® indicator light (4) changes from solid to blinking

### Clearing your HomeLink









Comfort and Convenience

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## Comfort and Convenience Windows

### Safety

 **WARNING:** Ensure that no one can be trapped as you open or close the windows. Do not rest any part of your body against the window. There is a risk of becoming trapped by the movement of the window. If there is a risk of entrapment, stop movement of the window. See Anti-trap protection, page 5.03.

### Opening and closing

 **WARNING:** The key fob allows the engine to be started and is also used to activate other features on the vehicle. Take the key fob with you, every time you leave the vehicle to prevent unsupervised operation of the windows, which may result in injury.

Switches for both windows are located on the driver's door console. A switch for the passenger's window is located on the passenger's door console.



1. Driver's window switch.
2. Passenger's window switch.

Press switch (1) or (2). The window will open for as long as the switch is pressed.

Pull switch (1) or (2). The window will close for as long as the switch is pressed.

To open or close a window fully, press or pull switch (1) or (2) fully and release.

 **NOTE:** To stop a window opening or closing, press or pull the appropriate switch.

 **NOTE:** If the vehicle is in awake mode, window control will not be available.

### Resetting the windows

The windows must be reset if the battery has been discharged or disconnected, or if the anti-trap feature has been activated.

Ensure that both doors are closed and the ignition is switched on.

## Comfort and Convenience Windows



Push switches (1) and (2) downwards until the windows are open and hold them in this position for 5 seconds.

Pull both switches upwards until the windows are closed and hold them in this position for 5 seconds.

The windows are now reset.

If this does not resolve the issue, please contact your McLaren retailer immediately.

### Anti-trap protection



**WARNING: Do not leave children unattended in the vehicle, they could be injured by the movement of the window.**

Anti-trap protection will stop windows closing if an obstruction or resistance is detected.

If the anti-trap protection is triggered, check the window and the window aperture and remove any obstruction, before operating the windows again. In the event of an anti-trap event when closing the door, see Closing a door, page 1.05.

# Comfort and Convenience

## Climate Control

### Overview

The system can be operated in automatic mode or settings can be adjusted manually.

The combination filter reduces the quantity of dust and pollutants entering the vehicle.

**⚠ WARNING: Follow the recommended settings given for heating or cooling. If the windows mist up, you may no longer be able to observe road and traffic conditions and could cause an accident.**

**i** NOTE: The climate control system operates more effectively with the doors and windows closed. However, if the vehicle has been standing in a hot environment for a long time, ventilate by opening the windows briefly.

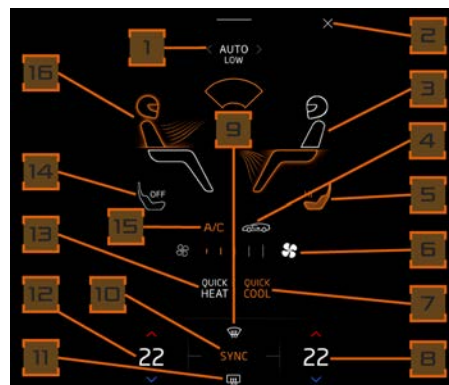
**i** NOTE: The interior air temperature sensor is located between the steering wheel and the centre console. Do not obstruct airflow to this sensor or the performance of the climate control system will be reduced.

**i** NOTE: The vehicle will retain the current climate control settings when the ignition is switched off.

### Controls

The climate control system is operated using the Central Infotainment Touchscreen. Press the  button to switch on the climate control screen.

#### Climate Controls



1. AUTO button
2. Close climate control menu
3. Air distribution buttons - right-hand side
4. Air recirculation button
5. Heated seat button - right-hand side

6. Blower speed control
7. Quick COOL button
8. Temperature control - right-hand side
9. Demist button
10. SYNC button
11. Heated rear window/mirrors
12. Temperature control - left-hand side
13. Quick heat button
14. Heated seat button - left-hand side
15. Air conditioning (A/C) button
16. Air distribution buttons - left-hand side

# Comfort and Convenience

## Climate Control

### Modes of operation

#### Automatic Mode

In automatic mode, the climate control system maintains the set interior temperature using a combination of differing blower speeds, air recirculation and air distribution.

The climate control system will automatically regulate the air flow to the windscreen to prevent internal misting and also regulate interior humidity to offer improved occupant comfort.

The control panel uses different colours to indicate operational states:

- Amber indicates ON.
- White indicates OFF but available for use.
- Grey indicates not available for use.

There are three automatic modes:

- **AUTO LO** sets the system to provide a diffused airflow into the cabin, offering a lower less direct airflow onto the occupants.
- **AUTO** is the normal balanced setting.

- **AUTO HI** sets the system to provide a focused airflow into the cabin, offering a higher more direct airflow onto the occupant.

To select an automatic mode, touch the **AUTO** button.

The button illuminates and the air distribution, temperature and blower speed are adjusted automatically on both sides of the vehicle.

In any automatic mode, there is no need to adjust the blower speed or air distribution, the system will operate whichever controls it needs to maintain the set temperature.

If you do wish to change the air distribution of the climate control system, touch the preferred button. This will then put the system into automatic fan mode.

If the blower speed is adjusted while an automatic mode is active, manual mode will be selected by default. Touch the **AUTO** button again to activate an automatic mode.

If necessary, the system settings can be manually adjusted, see Manual Mode, page 5.05.

#### Manual Mode

To adjust the blower speed manually, see Blower speed control, page 5.05.

To adjust the air distribution controls manually, see Air distribution settings, page 5.06.

#### Blower speed control



If the blower speed is manually adjusted, the system will enter MANUAL mode, where the blower speed will be set. However, the temperature and air distribution will still be controlled automatically.

## Comfort and Convenience Climate Control

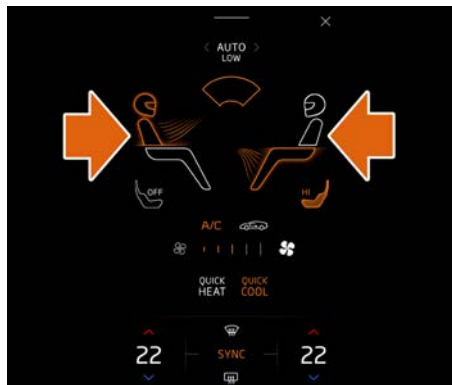
Touch the fan icon (1) to reduce the fan speed and (2) to increase it to the desired setting.

**i** NOTE: Touching the fan icon (1) again, if the fan speed is already set to minimum, will switch off the climate control system. Touch the fan icon (2) to switch it back on.

If in automatic mode, adjusting the blower speed will cause the **AUTO** button to extinguish.

Press the **AUTO** button to return to automatic mode.

### Air distribution settings



If a manual distribution mode is selected, the system will enter **MANUAL** mode, where the air distribution will be set. However the temperature and blower speed will still be controlled automatically.

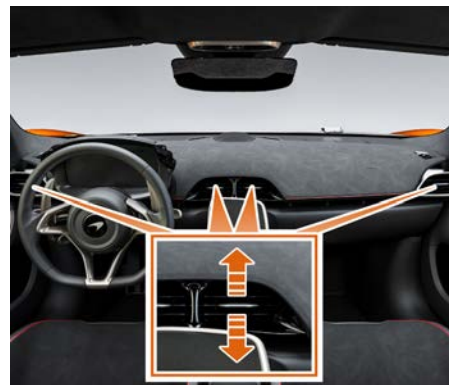
The dual zone air distribution can be set using the air distribution controls, independently for the driver and passenger.

Press the top screen area to direct air to the windscreen, press the middle screen area to direct air to the face level and diffused air vents, press the bottom screen area to direct air to the footwell vents.

All three screen areas, a combination of any two or an individual area can be selected at any time.

When an air distribution screen area is pressed, the screen icon will illuminate.

### Dashboard air vents



Move the vent control fully to the left and right to open and close the vent.

### SYNC Mode

**SYNC** mode allows any changes the driver makes to their air temperature or distribution settings to be mirrored automatically for the passenger's side.

Touching the on-screen **SYNC** button will cause it to illuminate and automatically implement the driver's air temperature and distribution settings to the passenger's side.



## Comfort and Convenience Climate Control

The driver can exit SYNC mode at any time by a single touch of the SYNC button. The SYNC button on the screen will then extinguish.

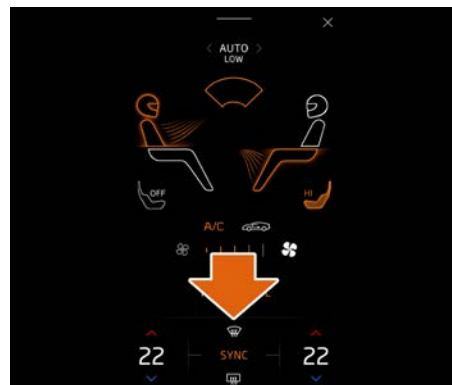
SYNC mode will also be disabled if any of the passenger side settings are adjusted.

### Air Conditioning (A/C) button

The A/C enhances the cooling and dehumidifying of air. It is used by max-cooling and defrosting modes.

Use the A/C button to enable/disable the A/C compressor.

### Demisting/Defrosting



Touch the demist button to activate the screen demist function. The button will illuminate and an icon will be displayed at the top of the screen to indicate the function is active. The air conditioning switches on if previously off and the blower will operate at a set speed with the air temperature set to 'HI'.



**NOTE:** Air recirculation is inhibited when demist mode is selected.

## Comfort and Convenience

### Climate Control

Touch the demist button again to exit the demist mode. The icon on the button extinguishes, and the air temperature and blower speed return to their original settings.

#### Temperature control

Touch  to increase the temperature, or touch  to decrease.

 **NOTE:** The temperature can be adjusted in 0.5°C (1°F) increments from 16°C to 28°C (61°F to 83°F). McLaren recommend the temperature is set to 22°C (72°F).

To set the temperature to maximum, touch  until HI is displayed. In AUTO mode, the climate control system adjusts the air temperature to the highest setting, the blower is adjusted to a set speed and air is directed to the footwells.

To set the temperature to minimum, touch  until LO is displayed. In AUTO mode, the climate control system sets the air temperature to the lowest setting, the blower is adjusted to a set speed and air is directed to the centre air vents.

The temperature set will appear on the Central Infotainment Touchscreen.

To adjust the driver and passenger temperatures at the same time touch SYNC, then adjust the temperature. The temperature controls will remain synchronised until you touch SYNC again.

 **NOTE:** With LO selected, it is not possible to switch off the air conditioning.

## Comfort and Convenience

### Climate Control

#### Air recirculation mode



Select air recirculation when unpleasant smells or fumes are entering the vehicle. Air from outside the vehicle is now prevented from entering the cabin.

**WARNING:** Selecting air recirculation mode when outside temperatures are low could cause misting of the windows, which may impair your visibility. As a result, you could be distracted from road and traffic conditions and cause an accident.

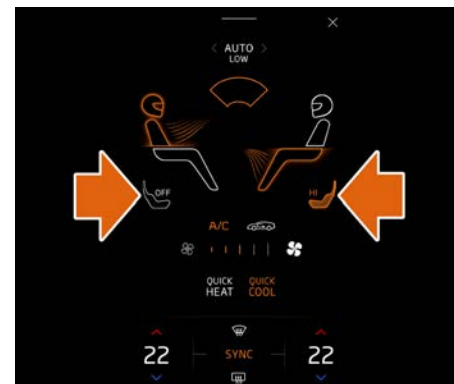
**NOTE:** Switch on the air conditioning to prevent the windows misting.

Touch the air recirculation button, to activate air recirculation. The button will illuminate. To switch off air recirculation, touch the button again and the button illumination will be extinguished.

#### Heated seats

**WARNING:** To avoid the risk of injury, constantly monitor the seat temperature.

**WARNING:** The heated seats will not switch off automatically once it reaches its optimum temperature dependent on the level selected. Please ensure the switch of the heated seat function is turned off once the desired heat/period of heat has been achieved.



## Comfort and Convenience Climate Control

Touch the button once to switch seat heating on to the high temperature setting, touch the button again to switch to the low temperature setting.

To switch off, touch the button again and the icon on the button will be extinguished.

The seat heater will remain in operation until switched off.

### Heated rear window



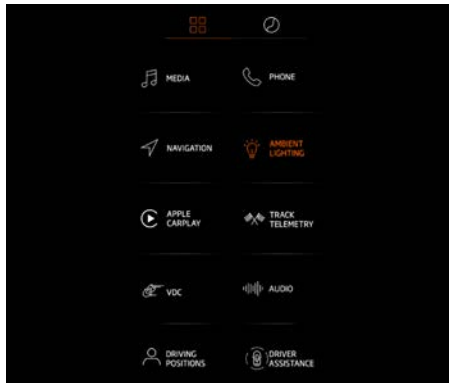
**⚠ WARNING:** Remove any accumulated ice or snow from the mirrors and windows before setting off. Impaired visibility could endanger yourself and others.

Touch the button to heat the rear window and exterior mirrors. The icon on the button will illuminate. To switch off, touch the button again and the icon on the button will be extinguished.

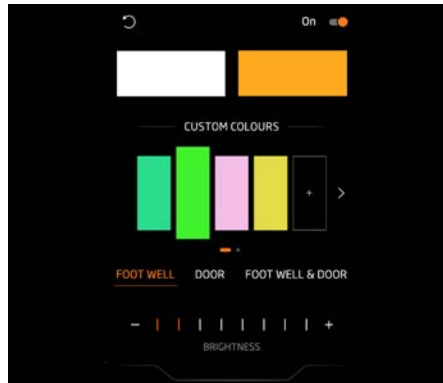
The heated rear window and mirrors switch off automatically after a set time, depending on the outside air temperature.

## Comfort and Convenience Interior Features

### Ambient lighting



Touch the Ambience icon on the McLaren Infotainment System (MIS) Home screen.



Touch **Footwells** to toggle the footwell ambient lighting on or off.

Touch **Door** to toggle the cockpit ambient lighting on or off.

Touch the + or - symbols to adjust the brightness of the ambient lighting. Alternatively swipe the brightness bar.

The ambient lighting colour and brightness can be adjusted using the McLaren Infotainment System (MIS) on-screen controls.

Touch the switch icon to toggle ambient lighting **On** or **Off**. If ambient lighting is **Off** the ambient lighting menu choices will not be shown.

Touch the coloured bars to select the ambient lighting colour. The selected colour will expand and appear larger than the other colours.

Touch **Reset** to return the ambient lighting to the default setting.

Touch **Footwell** and **door** to toggle the footwell and door ambient lighting on or off.

## Comfort and Convenience

### Interior Features

#### Entry lighting

Entry lighting improves visibility and security when you approach the vehicle.

When the vehicle is unlocked, the headlamps and tail lamps illuminate for a period of time or until the ignition is switched on.

To set the entry lighting duration, see Entry and exit lighting, page 4.10.

#### Exit lighting

Exit lighting improves visibility and security when you leave the vehicle by illuminating the headlamps and tail lamps for a period of time.

To set the exit lighting duration, see Entry and exit lighting, page 4.10.

Exit lighting can also be activated manually by pulling the direction indicator stalk towards you momentarily three times. The vehicle must be in an awake mode with the ignition off.

Every additional pull on the direction indicator stalk whilst the exit lighting has been activated will increase the time increment by an additional 15 seconds.

Once the vehicle has been exited, locked and completed its set operating time, the exit lighting will be extinguished and the function will not be available, unless it is switched on in the McLaren Infotainment System (MIS) or is manually activated again through the direction indicator stalk.

#### Stowage compartments

##### Centre console stowage compartment



A compartment is fitted in the centre console for storing small items.

Depress the release button on the underside of the lid and lift to open. To close, push the lid down firmly and ensure that it is latched securely.

## Comfort and Convenience

### Interior Features

**⚠ WARNING:** The stowage compartment must be closed when items are stored in it. Occupants could be injured by objects being thrown around during sharp braking, a sudden change of direction or an accident.



Two USB sockets and the interior accessory 12V socket are located in the stowage compartment. See Connecting an external device, page 4.22 and Interior accessory 12V socket, page 5.15.

**i NOTE:** Always close the stowage compartment when leaving the vehicle, or the interior motion sensor (if fitted) will not function.

**i NOTE:** The area behind the seats is not designed for storing luggage or any other personal items.

#### Seat stowage pocket

A pocket is fitted to the front edge of the driver's seat for storing small items, such as the key fob.

#### Door stowage compartments



A compartment is fitted in each door for storing small items.

**⚠ WARNING:** Be careful about what is stored in it. Occupants could be injured by objects being thrown around during sharp braking, a sudden change of direction or an accident.

**⚠ WARNING:** Care must be taken when opening the door as there is a risk of objects falling out.

## Comfort and Convenience

### Interior Features

#### Cup holders



Utilise the cup holders for safe convenient storage of closed drink containers when on a journey.

**WARNING:** Drinking while the vehicle is moving could cause you to become distracted which could lead to an accident.

**WARNING:** Do not put any hot beverages in the cup holder while the vehicle is moving. Hot beverages could spill, which may cause injury.

**WARNING:** Do not use breakable beverage containers (for example, made out of glass or porcelain). You could be injured by them in the event of an accident.

**NOTE:** Beverage containers in the cup holders should always have a lid. If not, beverages could spill and cause damage to the vehicle equipment, such as electronics or seat covers.

#### Owner documentation

Your McLaren is equipped with the following documents:

- Service and Warranty Guide - provides information on what to do and who to contact in the event of problems.
- Owner's Handbook - provides information on how to operate your McLaren.



The Service and Warranty Guide can be stored in front luggage compartment.



## Comfort and Convenience Interior Features

### Sun visors



Fold the sun visors down to protect your eyes from bright sunlight as you are driving.

### Vanity mirrors

Lift the panel on the sun visors to reveal a personal mirror.

### Accessory power sockets

Front luggage compartment socket



The accessory socket, located in the front luggage compartment, has a maximum load rating of 20 Amps and is the only one that can be used to connect a McLaren supplied battery charger.

**i** NOTE: Do not leave any device (except a McLaren supplied battery charger), that draws power from the vehicle, connected to the socket for extended periods without the engine running. This may lead to excessive battery drain.

Interior accessory 12V socket



The interior accessory 12V socket is located adjacent to the front cup holder in the centre console and has a maximum load rating of 6 Amps.

## Comfort and Convenience

### Interior Features



NOTE: Do not connect a battery charger to the interior accessory socket.

#### USB sockets

##### Media USB socket



These sockets can also be used to charge compatible mobile phones or media devices.

Two USB sockets are located inside the centre console stowage compartment.

1. USB-C socket.
2. USB-A socket.

The USB sockets can be used to connect USB flash drives, iPods and other compatible MP3 players.



NOTE: The USB-C socket (1) should be used for Apple CarPlay®.

## Comfort and Convenience

### Vehicle Tracking

#### Overview

This section provides an overview of the vehicle tracking service. If you need further clarification, contact vehicle tracking customer service.

The tracking system is a subscription based service which tracks vehicle movements in the event of a theft, sabotage attempts, vehicle break-in or GPS antenna tampering.

#### Automatic driver recognition cards

When the ignition is switched off, the vehicle tracking system will automatically arm itself. If the vehicle is then moved (lifted, towed or driven) without the automatic driver recognition card present, a silent alert is immediately sent to the vehicle tracking centre.

**i** **NOTE:** Store your automatic driver recognition card away from keys when the vehicle is not in use to reduce the risk of the card being taken in the event of key theft.  
Do not leave your automatic driver recognition card or certificate of tracker installation in the vehicle.



## Comfort and Convenience

### Vehicle Tracking

#### In the event of a theft

1. If you discover the vehicle has been stolen, call the vehicle tracking centre in your home country,  
or  
if your vehicle is supplied with an automatic driver recognition card and the vehicle is moved without this, the vehicle tracking centre will initially send a text message to you to verify the vehicle movement. In addition to this, the vehicle tracking centre will attempt to contact you using your mobile phone number then your home or office number provided you supplied them at the time of vehicle collection.
2. The vehicle tracking centre will not contact the police until they have spoken to you. Once you have confirmed the theft, they will commence the vehicle recovery procedure.
3. The vehicle tracking centre will ask you to contact the police to report the theft and call back with a police incident number. Receipt of an alert does not constitute a confirmed theft, as the police require your, or the keyholder's, verification of a theft.

If you are abroad at the time of theft, the vehicle tracking centre will contact the police in your home country for you to obtain a police incident number.

4. The vehicle tracking centre will then liaise with the relevant local police to recover your vehicle.

In order to prevent your vehicle being moved following a theft, the vehicle tracking service may, under instruction from the police, temporarily prevent the vehicle's engine from restarting (market dependent).

5. When the police secure the stolen vehicle, arrangements will have to be made with you for the vehicle to be collected. The police may recover the vehicle to a secure compound for further investigation.

You may be liable for any recovery and storage charges.

#### Disabling the tracker system

There will be instances when you wish to disable your tracker for specific periods of time.

These will include visits to your McLaren retailer or if the vehicle is to be transported on a trailer, train or ferry.

You can contact the vehicle tracking centre and advise them that you wish the system to be placed in either 'Transport' or 'Garage' mode.

The operator will request the exact time that this should be implemented and also the duration. This will ensure that the system is only disabled for the minimum time necessary.

## Comfort and Convenience

### Vehicle Tracking

#### Vehicle tracking centre

If the vehicle is stolen, contact the appropriate number from the table below.

| Country     | Telephone           |
|-------------|---------------------|
| UK          | +44 333 222 0799    |
| Germany     | +49 621 878 889 193 |
| Italy       | +39 331 162 0847    |
| Spain       | +34 911 750 541     |
| France      | +33 146 902 331     |
| Switzerland | +41 848 123 457     |
| Belgium     | +32 27 523 907      |
| Netherlands | +31 882 020 927     |

The vehicle tracking centres are operational 24 hours every day throughout the year (public holidays included).



**NOTE:** The cost of calls is calculated according to the national tariff.

#### Customer Service

If at any time you need to change any details you have entered in the McLaren vehicle tracking system agreement or if you sell your vehicle, you **MUST** contact the service provider.

For example, if:

- you have changed your telephone/mobile phone number.
- you have changed the registration plate on your vehicle.
- you are moving house.
- you are selling your vehicle.
- you wish to add or remove an authorised driver.

The vehicle tracking customer service operators can be contacted on:-

0844 239 0032 in the UK or from outside the UK on +44 (0)161 924 5404. Calls can be made between 09:00am - 17:00pm (GMT) Monday to Friday.

#### False alarms

To maintain the vehicle tracking service stolen vehicle recovery rates, customer support is needed to keep false alarms to a minimum.



**NOTE:** Ensure that the vehicle battery remains fully charged at all times, a discharged battery may lead to a false alarm.

A disconnected battery may also lead to a false alarm.

## Comfort and Convenience

### Vehicle Tracking

#### False alarm policy

Following an alert, the vehicle tracking centre will contact you to confirm the status of the vehicle. If the alert is a false alarm, this will be recorded on your account, you may be charged for excessive false alarms.

All automatic driver recognition card users will be allowed up to 5 false alerts in a 12 month period.



**NOTE:** To avoid unnecessary alerts, contact the vehicle tracking centre to inform them of any potential false alarms.







# Maintaining Your McLaren

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# Maintaining Your McLaren Fluid Topping Up

## Engine oil

It is normal for your engine to consume oil and the rate of consumption will vary with many factors. The oil consumption may be higher when the vehicle is new or if you frequently drive at high engine speeds.

It is important to follow the service schedule for oil and filter changes and to regularly check the level of your oil in between.

You will only be able to estimate the oil consumption after the vehicle has been driven for several thousand miles or kilometres.

**i** NOTE: Lubricant additives could damage the engine or gearbox. Damage caused by such additives is not covered by the vehicle warranty. Further information is available from your McLaren retailer.

**i** NOTE: The oil pressure warning light is not a low oil level indicator.

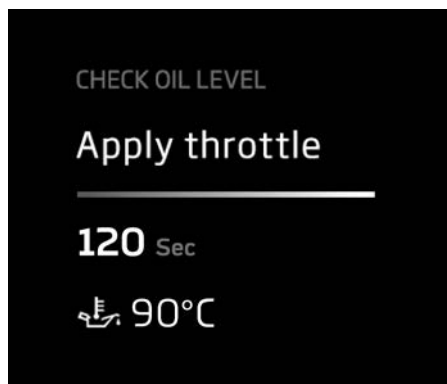
### Checking the engine oil

1. Ensure the following conditions are met:
  - Vehicle stationary and positioned on a level surface.
  - Parking brake applied.

- Sport or Track powertrain mode selected.
- Engine running.
- Neutral selected and the foot brake applied (use left foot).

**i** NOTE: The foot brake must be applied for the entire duration of the oil level check.

2. Select Oil from the Car Status section on the Driver Display to access the oil level check, see Oil, page 3.11.



3. Follow the instructions shown on the Driver Display.

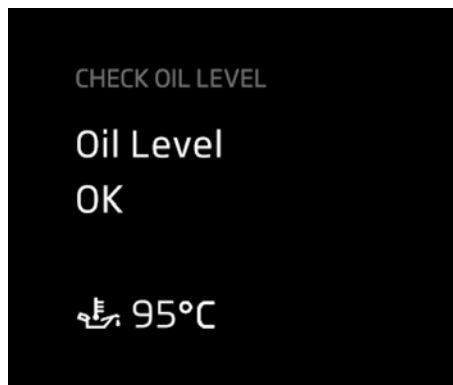
Fully depress the throttle, the engine speed will be held at 2,900 rpm. Allow the engine oil temperature to reach 90°C (194°F).

**i** NOTE: The throttle pedal can be fully depressed as the engine speed will be electronically limited to 2,900 rpm.

4. When the oil temperature rises above 90°C (194°F) a 120 second timer will start.

When the timer has reached '0', the oil level will be shown on the Driver Display along with a description.

## Maintaining Your McLaren Fluid Topping Up



5. If the engine oil is below the target level, the required top up quantity will be displayed on the Driver Display.

Stop the engine and top up the oil in accordance with the following procedure.

- i** **NOTE:** Once the oil level check has been completed and returned a value, do not continue to test the system. This may lead to aeration of the oil and return a false value. To end the oil level check, release the throttle pedal and return to the Vehicle info menu by moving the menu stalk back.

Topping up the engine oil

- !** **WARNING:** If the ignition is on, you should be aware that the engine may restart without warning.
- !** **WARNING:** The ignition must be switched off before carrying out the engine oil top up process.
- !** **WARNING:** Oil must not be spilt outside of the filler tube. In case of excessive spillage, ensure the engine remains off and contact your McLaren retailer.

1. Open the service cover.  
See Service cover, page 1.10.



2. Unscrew the engine oil filler cap.

- 🌿** **ENVIRONMENTAL:** When topping up, take care not to spill any oil. Oil must not be allowed to escape into the soil or waterways.

- i** **NOTE:** When topping up, always fill the oil in small increments to avoid overflow.

3. Top up with the specified quantity of engine oil. Refer to Engine oil, page 7.10.

## Maintaining Your McLaren Fluid Topping Up

 **NOTE:** Do not overfill the oil. If the total oil filled is greater than or equal to 9.3 litres and the Driver Display still displays low oil level, do not continue to add more oil, contact your McLaren retailer.

 **NOTE:** Wait two minutes to allow oil to flow from the filler tube to the tank. This will ensure an accurate oil level reading.

4. Check the Driver Display to ensure level is correct.

 **NOTE:** If you have inadvertently overfilled the engine with oil, you must have any excess removed at your McLaren retailer. The engine or the catalytic converter could be damaged.

5. Refit the engine oil filler cap.

 **NOTE:** Ensure the oil filler cap is refitted correctly.

6. Close the service cover.  
See Service cover, page 1.10.

### Oil temperature

If the oil temperature is too high, a warning will be displayed on the Driver Display. Reduce the vehicle and engine speed until the warning message disappears.

### Coolant

Coolant is a mixture of water and antifreeze/corrosion inhibitor. Only check the coolant when the vehicle is positioned on level ground and the engine is cool.

#### Topping up the coolant

 **WARNING:** The coolant system is pressurised. Only unscrew the cap when the engine is cool. You could be scalded by hot escaping coolant if you unscrew the cap whilst the engine is warm.

 **WARNING:** Coolant is highly flammable. Fire, naked flames and smoking are prohibited when handling coolant.

 **WARNING:** Coolant is toxic. Keep containers sealed and away from children. If coolant is accidentally consumed, seek medical help straight away.

 **WARNING:** The engine must be switched off before carrying out the coolant level check and top up process.

## Maintaining Your McLaren Fluid Topping Up

1. Open the service cover.  
See Service cover, page 1.10.
2. Slowly unscrew the cap by half a turn anti-clockwise and allow excess pressure to escape.
3. Unscrew the cap fully and remove it.



4. The coolant level is correct when it is at the top of the + marker.
5. Top up the coolant if necessary. See Coolant, page 7.11.



**ENVIRONMENTAL:** When topping up, take care not to spill any coolant. Coolant must not be allowed to escape into the soil or waterways.

6. Replace the cap by turning it clockwise to the stop.
7. Close the service cover.  
See Service cover, page 1.10.

### Gearbox oil level

If you experience oil loss or problems with gear shifts, have the gearbox checked by your McLaren retailer.



**NOTE:** The clutch and gearbox oil has mileage related service intervals. This maintenance can only be carried out by your McLaren retailer.

# Maintaining Your McLaren Fluid Topping Up

## Brake fluid

-  **WARNING:** Brake fluid is highly flammable. Fire, naked flames and smoking are prohibited when handling brake fluid.
-  **WARNING:** Brake fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.
-  **WARNING:** Only use fluid from new, air tight containers.
-  **WARNING:** The engine must be switched off before carrying out the brake fluid check and top up process.
-  **NOTE:** Avoid spilling brake fluid, it is harmful to painted surfaces. Any spillages must be removed immediately with a mixture of car shampoo and water.



Right-hand drive models



Left-hand drive models

## Checking fluid level

1. Open the luggage compartment, see Luggage compartment, page 1.08.
2. Remove the access cover, then unscrew the cap anti-clockwise and remove it.
3. The brake fluid is correct if the level just covers the base of the filter in the filler neck.
4. Top up if necessary using only new brake fluid. See Brake fluid, page 7.12.



## Maintaining Your McLaren Fluid Topping Up

 **ENVIRONMENTAL:** When topping up, take care not to spill any brake fluid. Brake fluid must not be allowed to escape into the soil or waterways.

5. Replace the cap and access cover.
6. Close the luggage compartment, see Luggage compartment, page 1.08.

### Windscreen washer fluid

 **WARNING:** Some washer fluids are highly flammable. Fire, naked flames and smoking are prohibited when handling washer fluid.

 **WARNING:** Washer fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.

 **NOTE:** Add washer fluid to the reservoir all year round.



Right-hand drive models

## Maintaining Your McLaren Fluid Topping Up



Left-hand drive models

### Topping up the windscreen washer fluid

1. Open the luggage compartment, see Luggage compartment, page 1.08.
2. Mix a solution of windscreen washer fluid concentrate and water in a container before adding to the reservoir. Concentration of the windscreen washer solution should be mixed to suit the outside temperatures. See Windscreen washer fluid, page 7.12.
3. Remove the access cover and open the reservoir cap.

4. Top up the windscreen washer fluid.
5. Close the cap and replace the access cover.
6. Close the luggage compartment, see Luggage compartment, page 1.08.

### Power steering fluid

 **WARNING:** Power steering fluid is highly flammable. Fire, naked flames and smoking are prohibited when handling power steering fluid.

 **WARNING:** Power steering fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.

Contact your McLaren retailer to have the power steering fluid level checked and, if necessary, topped up.

# Maintaining Your McLaren Exhaust Filter

## Gasoline Particulate Filter (GPF)

A Gasoline Particulate Filter (GPF) is used to collect particulate matter from the exhaust gases produced by a Gasoline Direct Injection (GDI) engine.

The particulates collected in the GPF are burned off (regenerated) when the engine is at normal operating temperature and the driver lifts off the accelerator pedal for several seconds, from engine speeds above 2,500 rpm. This manoeuvre provides sufficient oxygen in the exhaust system to regenerate the particulates.

The particulates can start to build up in the GPF due to frequent cold starts, successive short journeys and low engine speed (below 2,500 rpm) driving, for example, continuously using comfort powertrain mode in a city environment. To help keep the GPF particulate levels low try to perform occasional drives in sport or track powertrain modes, using manual gears with varying engine speeds including frequent accelerator pedal off extended coast down manoeuvres.

If the particulates build up to undesirable levels, the following messages will be shown on the Driver Display:



Exhaust Filter clean drive urgently needed  
- See Owner's Manual, page 6.11



Exhaust Filter clean drive urgently needed.  
Engine limited - See Owner's Manual, page 6.11



Exhaust Filter service critical. Engine limited  
- Call McLaren Service Centre, page 6.12

**Exhaust Filter clean drive urgently needed  
- See Owner's Manual**

The GPF is approaching capacity and the vehicle must be driven in a certain way in order to regenerate the GPF. Follow the GPF drive cycle, page 6.11 at the very next opportunity.

**Exhaust Filter clean drive urgently needed.  
Engine limited - See Owner's Manual**

The GPF is close to capacity and the vehicle must be driven in a certain way in order to regenerate the GPF. Follow the GPF drive cycle, page 6.11 at the very next opportunity.

**GPF drive cycle**



**WARNING: Ensure all local road traffic laws and regulations are observed.**



**WARNING: Only follow this drive cycle if traffic conditions allow and you are able to do so safely and in accordance with all local road traffic laws and regulations.**



**NOTE:** Failure to follow the regeneration guidance may result in further soot build up in the GPF and restricted engine performance.

- Before starting this drive cycle, ensure that the hybrid battery is charged to above 90% and that the engine is cold.
- Select Track powertrain mode, start the engine and let it idle for 5 minutes to warm up.
- When you are ready, select Electric powertrain mode (to avoid heating the exhaust system too much and filling the GPF further) and drive the vehicle away from built up areas, to a location where you will be able to safely drive up to 60 mph (95 km/h) for up to 20 minutes.
- Select Sport powertrain mode (which will start the engine), select automatic gears and accelerate gently up to 60 mph (95 km/h).

## Maintaining Your McLaren Exhaust Filter

- Once at a speed of 60 mph (95 km/h), and when it is safe to do so, completely release the accelerator pedal and allow the vehicle to coast down to 40 mph (70 km/h).

 **NOTE:** The GPF cleaning occurs during the deceleration.

- Repeat the gentle acceleration up to 60 mph (95 km/h) and when it is safe to do so, completely release the accelerator pedal and allow the vehicle to coast down to 40 mph (70 km/h). Continue repeating this manoeuvre until the message "Exhaust Filter clean completed" is shown on the Driver Display. This process could take up to 20 minutes.

If the message "Exhaust Filter clean completed" is not displayed after 20 minutes, then the drive cycle can be repeated. Allow the engine to idle for a minimum of 10 minutes to cool the system down before repeating the drive cycle.

 **NOTE:** If you are having difficulty in completing this drive cycle and obtaining the "Exhaust Filter clean completed" message successfully, please contact your McLaren retailer.

**Exhaust Filter service critical. Engine limited - Call McLaren Service Centre**

The GPF has exceeded capacity and the vehicle must to be taken to a McLaren service centre to regenerate the GPF. The driver will no longer be able to regenerate the GPF themselves by driving. The engine performance will be restricted. Contact your McLaren retailer.

# Maintaining Your McLaren Emergency Equipment

## Emergency equipment safety

Before using the emergency equipment, familiarise yourself with the following safety information.

 **WARNING:** Always ensure the emergency equipment supplied is used in the proper manner and for the purpose it was designed. Always use the emergency equipment in a safe and responsible manner and be aware of other road users.

## Front luggage compartment equipment



The emergency equipment is stored against the side wall of the front luggage compartment.

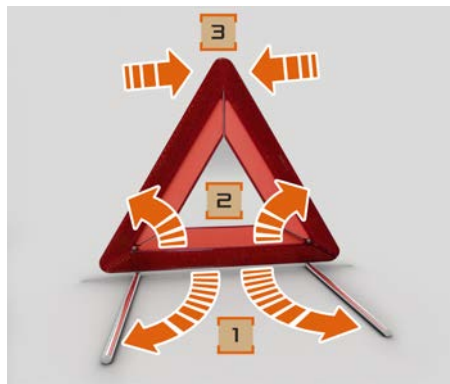
## Warning triangle



The warning triangle (1) is stored in a red case, at the rear of the front luggage compartment. Release the two straps to remove the warning triangle.

# Maintaining Your McLaren Emergency Equipment

## Setting up the warning triangle



Fold the legs (1) sideways from the bottom.  
Pull side reflectors (2) upwards to form a triangle and lock them at the top using press-stud (3).  
Place the warning triangle at an appropriate distance from the vehicle to warn other traffic of a breakdown.

## First aid kit



The first aid kit (2) is stored inside the accessory bag, at the side of the front luggage compartment.

**i** **NOTE:** Check the expiry dates of the first aid kit materials every 12 months, and replace them if necessary.

## Tyre sealant



The tyre sealant (3) is stored inside the accessory bag, at the side of the front luggage compartment. Remove the accessory bag and release the two straps to remove the tyre sealant.

For instructions on how to use the tyre sealant, see Deflated tyre, page 6.41.

**i** **NOTE:** Check the expiry date of the tyre sealant every 12 months, and replace if necessary.

## Maintaining Your McLaren Emergency Equipment

### Towing eye



The towing eye (4) is stored inside the accessory bag, at the side of the front luggage compartment.

**i** NOTE: Your McLaren is equipped with a front towing eye mounting only. It is not possible to tow other vehicles.

For information on installing the towing eye, see Towing eye and mounting, page 6.48.

### Fuel funnel



The fuel funnel (5) is stored inside the accessory bag, at the side of the front luggage compartment.

**i** NOTE: Only use the fuel funnel when filling the vehicle with fuel from sources other than a fuel pump on a garage forecourt.

Do not use the fuel funnel when topping up coolant, engine oil or any other fluids in the vehicle.

For information on using the fuel funnel, see Filling with the fuel funnel, page 2.58.

### Service cover release tool



The service cover release tool (6) is stored inside the accessory bag, at the side of the front luggage compartment.

# Maintaining Your McLaren Emergency Equipment

## Fire extinguisher



The fire extinguisher is stored against the side of the front luggage compartment.

Release the retaining strap and remove the fire extinguisher.

To operate, follow the manufacturer's instructions on the side of the fire extinguisher.

**i** **NOTE:** The fire extinguisher must be checked every 12 months or it may fail in an emergency. Once the extinguisher is used it will have to be replaced.

## Wheel chock



The wheel chock is located in the front luggage compartment.



# Maintaining Your McLaren

## Battery Care and Maintenance

### How to recover the vehicle with a discharged 12V or HV battery

If the 12V battery has become discharged, the parking brake must be released to enable the vehicle to be towed away. This can be done once the 12V battery is recovered. To recover the 12V battery please contact your McLaren retailer.

 **WARNING: When the 12V battery is discharged, only use a 12V slave battery to energise the system to release the parking brake. Any other voltage source could cause serious damage to your vehicle.**

 **WARNING: Before use, check that all the cables are in good condition; do not use cables that are damaged.**

Attempt to release the parking brake (see Parking brake, page 2.07). If the brake does not release, please contact your nearest McLaren retailer.

Make this information available to any third parties that may be assisting in the recovery of your McLaren.

Boost starting from another vehicle

Contact your McLaren Retailer.

### 12V battery charging safety

Before using the 12V battery charger, familiarise yourself with the following safety information.

 **WARNING: Your McLaren is fitted with two lithium-ion batteries. A 12V battery and a High Voltage (HV) battery. The 12V battery is charged by the HV battery. A 12V battery charger should only be used to charge the 12V battery when access to a HV charging cable is not available. Contact your McLaren retailer for more information.**

 **WARNING: The lithium-ion batteries fitted to your McLaren are sealed for life and no attempt should be made to break the battery seal to inspect the battery cells.**

 **WARNING: Have the 12V battery tested by your McLaren retailer, once a year or after 6,000 miles (10,000 km) and replaced if necessary. Your McLaren retailer will inform you if it is necessary to replace the 12V battery.**

 **WARNING: Leave the HV charging cable plugged in and connected to your vehicle during periods when your vehicle is not in regular use. This will help maintain the life of both the HV battery and the 12V battery.**

 **WARNING: If access to a HV charging cable is not available, leave a suitable 12V battery charger connected to the 12V battery and switched on during periods when your vehicle is not in regular use. This will help maintain and prolong the life of the battery.**

 **WARNING: Before use, check that all cables are in good condition; do not use cables that are damaged. Ensure that all cables are kept away from sharp edges, are not pinched or trapped and are not close to hot surfaces or water. The battery must only be charged in a well ventilated area; the charger must never be covered or placed on the battery. Do not place any metal objects on a battery. You could cause a short circuit and the battery could ignite.**

## Maintaining Your McLaren Battery Care and Maintenance

Keep the charger out of reach of children at all times.

### Charging the 12V battery

 **WARNING:** Do not connect the battery charger to the interior accessory socket.

 **WARNING:** Always disconnect the 12V battery charger before entering the vehicle.

 **NOTE:** The High Voltage (HV) charging cable and driving your vehicle are the best ways to care for your 12V and HV batteries. McLaren recommends using the HV charging cable to maintain optimum battery condition when not driving the vehicle.

 **NOTE:** To maintain your 12V battery in optimum condition, always leave the McLaren supplied 12V battery charger connected to the 12V battery and switched on during periods when your vehicle is not in regular use and access to a HV charging cable is not available.

 **NOTE:** A 12V battery charger maintains the condition of the 12V battery. McLaren recommends that you regularly check the condition of the 12V battery on the on the Driver Display, see Battery (12V), page 3.11.

Refer to the instructions supplied with the battery charger. The charger connects to the accessory socket in the luggage compartment.



 **NOTE:** The HV battery state of charge is affected by ambient conditions. The HV battery is likely to retain most of its usable capacity when placed in a storage environment that is maintained at a temperature between 0°C (32°F) and 25°C (77°F).

## Maintaining Your McLaren Battery Care and Maintenance

### High Voltage (HV) battery charging safety

Before using the High Voltage (HV) charging cable supplied with the vehicle, familiarise yourself with the following safety information.



Your McLaren is supplied with a High Voltage (HV) charging cable. A user manual for the HV charging cable is available and should be read and understood before charging your McLaren. To access the user manual, scan the QR code above, or visit:

<https://www.apativ.com/user-manual>

 **WARNING:** The High Voltage (HV) battery on your McLaren is a Hazardous Voltage battery, and misuse or abuse of the battery, electric motor, motor control unit or associated wiring can lead to serious injury or death.

 **WARNING:** The lithium-ion batteries fitted to your McLaren are sealed for life and no attempt should be made to break the battery seal to inspect the battery cells.

 **WARNING:** Leave the HV charging cable plugged in and connected to your vehicle during periods when your vehicle is not in regular use. This will help maintain the life of both the HV battery and the 12V battery.

 **WARNING:** Extension cable(s) must not be used between the HV charging cable and power outlet. Use only a suitable certified HV charging cable supplied, and plug the cable directly into the domestic power supply socket. Do not use any socket adapter(s). Ensure that the cable is kept away from sharp edges, is not pinched or trapped and are not close to hot surfaces or water. Do not use a cable that is damaged.

 **WARNING:** Never charge a damaged or faulty battery. Do not place any metallic objects on any of the vehicle batteries. You could cause a short circuit on the battery and the battery could ignite. Keep the HV charging cable out of reach of children at all times.

 **WARNING:** All cables associated with the High Voltage (HV) circuit on your McLaren vehicle are coloured orange. Do not attempt to remove or repair any of these cables as this may lead to serious injury or death.

## Maintaining Your McLaren Battery Care and Maintenance

-  **WARNING:** Do not make any unauthorised changes or modifications to the HV charging cable.
-  **WARNING:** The HV charging cable is not a serviceable product and no repair work is permitted. In case of failure, please contact the McLaren retailer to arrange for a replacement.
-  **WARNING:** Do not remove any labels from the HV charging cable.
-  **WARNING:** The HV charging cable does not have a mains switch. The device can be switched off at the power outlet or by unplugging it.
-  **WARNING:** Do not try to place your fingers inside the HV charging cable.
-  **WARNING:** If you detect leaking fluids or any other indication of damage to the HV battery area, stop charging, move the vehicle away from buildings and other vehicles if safe to do so and contact your McLaren retailer immediately.

-  **WARNING:** Always assume that the HV System is energised and never attempt to make repairs to any HV components, always contact your McLaren retailer.
-  **WARNING:** Do not subject the charging equipment to impact.
-  **WARNING:** Do not pull or twist the HV charging cable.
-  **WARNING:** Do not expose charging equipment to direct sunlight during charging as this may increase charging time.
-  **WARNING:** Do not drive on top of the HV charging cable.
-  **WARNING:** Do not place the charging equipment close to a heater or other heat sources.
-  **WARNING:** Do not attempt to perform a jump start on the 12V battery during charging. Doing so might cause serious damage to your vehicle.
-  **WARNING:** Ensure that the household's electrical wiring is specified to relevant electrical specifications.

-  **WARNING:** If the HV charging cable is not in use, ensure that the vehicle charge is maintained by regularly starting the engine.

-  **NOTE:** Normal charging, whereby the 12V battery is at a healthy state of charge, battery cells are balanced, and the HV battery is at the lowest usable state of charge at an ambient temperature of 25°C (77°F):
  - using the McLaren supplied HV charging cable, takes approximately 3.5 hours at 240V
  - using the McLaren supplied HV charging cable, takes approximately 7.5 hours at 110V
  - using a wall box or charge station providing 3.6KW, takes approximately 2.5 hours
-  **NOTE:** When the ambient temperature is less than 0°C (32°F), or more than 45°C (113°F), charging time may be longer than normal and the level to which the HV battery can be charged may be lower than at room temperature.

## Maintaining Your McLaren Battery Care and Maintenance

**i** NOTE: The vehicle can only be charged using the correct HV charging cable certified for that market. For more information on the charging cable compatibility please contact your McLaren retailer.

**i** NOTE: Regular charging helps maximising battery life.

**i** NOTE: In order for the charging to commence the following criteria needs to be satisfied:

- HV charging cable connected to the mains, powered up and turned on.
- Neutral Gear is selected, parking brake applied.

**i** NOTE: If the vehicle is stored for a long period of time, the onboard charger will maintain battery charge. The HV charging cable will be drawing current for the entire duration of time the vehicle is connected to the power outlet.

**i** NOTE: Charging related information is displayed on the Driver Display.

**i** NOTE: The HV charging cable and the In-Cable Control Box (ICCB) will warm up and could be hot to the touch during its normal operation. To ensure effective operation do not cover the ICCB.

**i** NOTE: Further information and instructions for the HV charging cable can be found at:  
<https://www.apativ.com/user-manual>

### Charging the High Voltage (HV) battery

When your McLaren is being stored without being driven for an extended period, the High Voltage (HV) battery must be charged every 3-4 weeks whilst in storage. Failure to do this may cause irrecoverable damage to the battery or shorten its life and reduce its optimum working efficiency. This may result in a replacement battery being required, the cost of which may not be covered by the warranty terms.

**i** NOTE: Optimum Electric Drive System performance can be maintained by regular HV charging. This allows the HV battery to go through an extended period of charging and conditioning in order to maintain capacity and performance.

**i** NOTE: The vehicle should not be left for an extended period of time with the HV battery at low state of charge. Where possible, charge the battery using a HV charging cable or by engaging Track mode on the car while the engine is on.

## Maintaining Your McLaren Battery Care and Maintenance

**i** NOTE: If you need to store the vehicle for more than four weeks, McLaren recommend you keep it in a temperature controlled environment between 0°C (32°F) and 25°C (77°F) and keep the car connected to a HV charging cable.

To maximise the life and capacity of your HV battery, if not using the vehicle for any extended period, McLaren recommend keeping it garaged at a temperature between 0°C (32°F) and 25°C (77°F) and out of direct sunlight.

**i** NOTE: The HV battery will be damaged if it is subjected to extremely hot or cold environments.

### Connecting the High Voltage (HV) charging cable

The HV charging cable is stored in the luggage compartment, see Luggage compartment, page 1.08.

1. Switch off the engine.

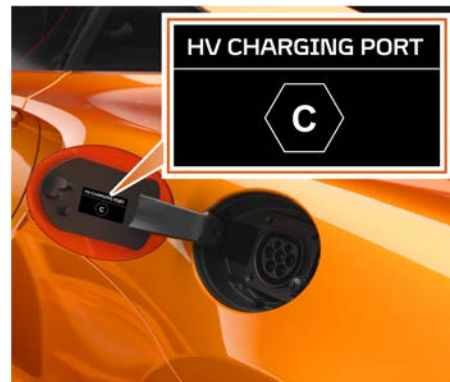


2. Press the rear edge of the HV charge port flap, the latch will release.
3. Open the flap.
4. Retrieve the HV charging cable from the luggage compartment and fully uncoil the cable.



**WARNING: Ensure that the HV charging cable is routed correctly over its entire length, in order to avoid a tripping hazard.**

5. Connect the HV charging cable to the mains power outlet. The power indicator on the In-Cable Control Box (ICCB) should be illuminated.



6. Connect the HV charging cable to the vehicle's HV charging port, the charging process will begin automatically. See High Voltage (HV) charging status, page 6.23.

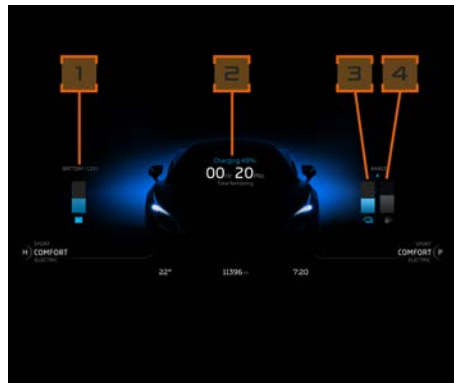


NOTE: The HV charging cable will be locked in the vehicle's HV charging port while the vehicle is locked, see Disconnecting the High Voltage (HV) charging cable, page 6.23.

# Maintaining Your McLaren

## Battery Care and Maintenance

### High Voltage (HV) charging status



While the HV battery is charging, the status will be shown on the Driver Display.

1. 12V battery charge status indicator.  
See Battery (12V), page 3.11.
2. A blue glow on the display indicates that the HV battery is charging. The current percentage state of charge and time remaining until 100% charge are also displayed.

The blue glow will disappear when the HV battery is fully charged and a message will confirm this.

A red glow on the display will indicate a charging error and a message will confirm this.

3. HV battery charge status indicator.  
See HV battery charge level and range, page 3.23.
4. Fuel level indicator.  
See Fuel level and range, page 3.24.

### Disconnecting the High Voltage (HV) charging cable



1. The HV charging cable is locked in the vehicle's HV charging port while the vehicle is locked, press the unlock button on the key fob or dashboard and disconnect the cable.
2. Disconnect the HV charging cable.
3. Close the HV charge port flap, you will hear the latch engage.
4. Return the HV charging cable to the luggage compartment and store securely.

# Maintaining Your McLaren Fuses

## Fuse replacement

**⚠ WARNING:** Fuses protect the vehicle's electrical systems. The failure of any fuse will render the system it protects inoperative. Use replacement fuses of the same rating and type. Incorrect fuse ratings can overload a system and cause a fire or malfunction. Blown fuses should be replaced and no attempt should be made to repair a blown fuse.

**i NOTE:** Before removing a fuse, turn off all electrical equipment and switch off the ignition.

There are three fuse boxes fitted to your McLaren.

| Fuse Box           | Location                                                        |
|--------------------|-----------------------------------------------------------------|
| Main fuse box      | Behind a panel in the rear bulkhead, behind the left-hand seat. |
| Secondary fuse box | Below the dashboard on the passenger's side.                    |

|                  |                                                                                           |
|------------------|-------------------------------------------------------------------------------------------|
| Battery fuse box | On top of the battery, in the luggage compartment, beneath the luggage compartment cover. |
|------------------|-------------------------------------------------------------------------------------------|

## Main fuse box

### Main fuse box access



1. To access the main fuse box:
  - if a manual seat is fitted, lift the tilt release lever and tilt the left-hand seat backrest forwards
  - if an electric seat is fitted, pull the release strap and tilt the left-hand seat backrest forwards
2. Release the two lower clips securing the panel to the bulkhead and remove the panel.



## Maintaining Your McLaren Fuses

3. Refer to the fuse specification to determine which fuse protects the non-functioning electrical system, see Main fuse box fuse specification chart, page 6.25.

**i** NOTE: A label identifying the fuses is attached to the inside of the access panel.

4. Remove the appropriate fuse and replace it with a fuse of the same value as the original. If in doubt, check the fuse specification chart.
5. Fit the access panel by inserting the two upper retaining clips in the bulkhead and securing with the two lower clips.

**i** NOTE: If a replacement fuse does not solve the electrical problem, or it fails immediately, contact your McLaren retailer.

Main fuse box fuse specification chart

| No. | Amps | Circuit protected     |
|-----|------|-----------------------|
| F1  | 60   | Domain Controller ZB2 |
| F2  | 60   | Domain Controller ZC1 |
| F3  | -    | -                     |
| F4  | -    | -                     |
| F5  | -    | -                     |
| F6  | -    | -                     |
| F7  | 30   | Starter               |
| F8  | 20   | Heated Rear Window    |
| F9  | 20   | Audio Amplifier       |
| F10 | -    | -                     |
| F11 | -    | -                     |
| F12 | 30   | HYCU                  |
| F13 | 3    | HV BMS                |

| No. | Amps | Circuit protected     |
|-----|------|-----------------------|
| F14 | 5    | Permanent Battery     |
| F15 | 15   | Relays                |
| F16 | 3    | Pyro Feed In          |
| F17 | 10   | MCU                   |
| F18 | 50   | ECU Main Relay Feed   |
| F19 | 40   | Fuel PEM Relay 1      |
| F20 | 20   | Seat Driver           |
| F21 | 20   | Seat Passenger        |
| F22 | 20   | eMotor Cooling Pump   |
| F23 | 15   | eMotor Cooling Fan    |
| F24 | 10   | Infotainment ECU      |
| F25 | 2    | Infotainment ECU Safe |
| F26 | 7.5  | Auxiliary USB Board   |
| F27 | 2    | SVCC/RVC              |

# Maintaining Your McLaren

## Fuses

| No. | Amps | Circuit protected             |
|-----|------|-------------------------------|
| F28 | 50   | eDiff Controller              |
| F29 | -    | -                             |
| F30 | -    | -                             |
| F31 | 40   | Cooling Fan LH                |
| F32 | 40   | Cooling Fan RH                |
| F33 | -    | -                             |
| F34 | -    | -                             |
| F35 | -    | -                             |
| F36 | 20   | ECU Main Relay                |
| F37 | -    | -                             |
| F38 | 2    | DMTL + Purge Valve            |
| F39 | 5    | LH Cam Actuators, Dump Valves |

| No. | Amps | Circuit protected                                                                   |
|-----|------|-------------------------------------------------------------------------------------|
| F40 | 7.5  | RH Cam Actuators, Crank Position, Dump Valves, Turbo Cooling Pump, Oil Level Sensor |
| F45 | 30   | LH Ignition Amplifier                                                               |
| F46 | 30   | RH Ignition Amplifier                                                               |
| F47 | 5    | LH Lambda, MAF, Exhaust, ESG                                                        |
| F48 | 5    | RH Lambda, MAF, Exhaust, ESG                                                        |
| F49 | 5    | Starter                                                                             |
| F59 | 15   | Domain Controller ZC1                                                               |
| F60 | 15   | Domain Controller ZC1                                                               |
| F61 | 15   | Domain Controller ZC1                                                               |
| F62 | 15   | Domain Controller ZC1                                                               |
| F63 | 15   | Domain Controller ZB2                                                               |
| F64 | 15   | Domain Controller ZB2                                                               |

| No. | Amps | Circuit protected     |
|-----|------|-----------------------|
| F65 | 15   | Domain Controller ZB2 |
| F66 | 15   | Domain Controller ZB2 |
| F67 | -    | -                     |
| F68 | -    | -                     |
| F69 | -    | -                     |
| F70 | -    | -                     |
| F71 | -    | -                     |
| F72 | -    | -                     |
| F73 | -    | -                     |
| F74 | -    | -                     |
| R41 | -    | -                     |
| R42 | -    | -                     |
| R43 | -    | -                     |
| R44 | -    | -                     |

## Maintaining Your McLaren Fuses

| No. | Amps | Circuit protected        |
|-----|------|--------------------------|
| R50 | -    | Fan eMotor Cooling Relay |
| R51 | -    | Heated Rear Window Relay |
| R52 | -    | Fuel PEM Relay           |
| R53 | -    | HTR Fan Low Speed Relay  |
| R54 | -    | HTR Fan High Speed Relay |
| R55 | -    | Starter Relay            |
| R56 | -    | -                        |
| R57 | -    | Change Over Relay        |
| R58 | -    | ECU Main Relay           |

### Secondary fuse box

#### Secondary fuse box access

1. Access to the secondary fuse box is gained by lowering the closing panel below the dashboard on the passenger's side.



2. Remove the two front screws (1).
3. Remove the side fixing clip (3).

**i** NOTE: If you wish to lower the closing panel fully, also remove the two clips at the rear (2).

4. Lower the closing panel, sufficiently to gain access to the fuse box.

- i** NOTE: Do not lower the closing panel further than necessary as it could be damaged.
5. Remove the appropriate fuse and replace it with a fuse of the same value as the original. If in doubt, check the fuse specification chart, see Secondary fuse box fuse specification chart, page 6.27.
  6. Raise the closing panel into position, fit the clip and fit and tighten the two front screws.

#### Secondary fuse box fuse specification chart

| No. | Amps | Circuit protected     |
|-----|------|-----------------------|
| F1  | 15   | Domain Controller ZB1 |
| F2  | 15   | Domain Controller ZB1 |
| F3  | 15   | Domain Controller ZB1 |
| F4  | 15   | Domain Controller ZB1 |
| F5  | 20   | Door Module RH        |

# Maintaining Your McLaren

## Fuses

| No. | Amps | Circuit protected |
|-----|------|-------------------|
| F6  | 20   | Door Module LH    |
| F7  | 5    | Door Latch RH     |
| F8  | 5    | Door Latch LH     |
| F9  | -    | -                 |
| F10 | 5    | Alarm             |
| F11 | -    | -                 |
| F12 | -    | -                 |
| F13 | 20   | LTR Fan RH        |
| F14 | 20   | LTR Fan LH        |
| F15 | -    | -                 |
| F16 | -    | -                 |
| F17 | -    | -                 |
| F18 | 5    | PTC Heater        |
| F19 | 20   | HVAC Blower       |

| No. | Amps | Circuit protected    |
|-----|------|----------------------|
| F20 | 10   | OBD                  |
| F21 | 5    | Ethernet Switch      |
| F22 | 5    | PEPS ECU             |
| F23 | 5    | TCU                  |
| F24 | -    | -                    |
| F25 | 4    | ADI Centre Display   |
| F26 | 4    | ADI Driver Display   |
| F27 | 3    | Radio Antenna Module |
| F28 | 10   | Roof Light Module    |
| F29 | 20   | HVAC Blower          |
| F30 | 10   | Horn                 |
| F31 | -    | -                    |
| F32 | -    | -                    |
| R1  | -    | Horn                 |

| No. | Amps | Circuit protected |
|-----|------|-------------------|
| R2  | -    | LTR Fans          |

# Maintaining Your McLaren Fuses

## Battery fuse box

### Battery fuse box access

1. Open the luggage compartment lid and remove any items stowed inside.



2. Remove the 2 quarter turn screws securing the top of the battery access cover.



3. Open the top of the battery access cover and disconnect the 2 electrical connectors on the back of the cover.
4. Lift the battery access cover upwards, off its locating pegs, and remove.



5. Release the catches shown and remove the cover from the fuse box.
6. Refer to the fuse identification label, remove the appropriate fuse and replace it with a fuse of the same value as the original. If in doubt, see Battery fuse box fuse specification chart, page 6.30.
7. Engage the left-hand side of the cover with the fuse box, and push the right-hand side down to fully engage the clips.
8. Refit the battery access cover, connect the 2 electrical connectors and secure with the 2 screws.

# Maintaining Your McLaren

## Fuses

9. Stow the contents removed from the luggage compartment.

Battery fuse box fuse specification chart

| No. | Amps | Circuit protected                   |
|-----|------|-------------------------------------|
| F1  | 300  | 12V Battery                         |
| F2  | 300  | Cabin                               |
| F3  | 100  | EPHS                                |
| F4  | 40   | Electronic Stability Control Valves |
| F5  | 40   | Electronic Stability Control Motor  |
| F6  | 20   | Condenser Fans Controller           |
| F7  | 20   | LTR Coolant Pump                    |
| F8  | 20   | Headlamps (Relay)                   |
| F9  | 15   | Domain Controller ZA1               |
| F10 | 15   | Domain Controller ZA1               |

| No. | Amps | Circuit protected     |
|-----|------|-----------------------|
| F11 | 15   | Domain Controller ZA1 |
| F12 | 15   | Domain Controller ZA1 |
| F13 | 25   | Wiper motor           |
| F14 | 10   | IPU                   |
| F15 | 15   | Aux Power Socket      |
| F16 | -    | -                     |
| F17 | 20   | eVac (Relay)          |
| F18 | -    | -                     |
| F19 | -    | -                     |
| R1  | -    | Vacuum Pump           |
| R2  | -    | Headlamps             |

# Maintaining Your McLaren Lighting

## Vehicle lights

Lighting is an important aspect of vehicle safety. You must ensure that all lights are working at all times.

All the external lights on your McLaren use the latest light-emitting diode technology.

Unlike traditional filament bulbs, these lights have a long life and low power consumption while providing the same amount of illumination.

## Headlamps

Your McLaren is fitted with light-emitting diode headlamps. These provide greater visibility on both dipped and main beams, especially during adverse weather and driving conditions.

 **NOTE:** Do not attempt to change light-emitting diode yourself, as you could damage the vehicle lighting systems. In case of failure, contact your McLaren retailer.

## Maintaining Your McLaren Manual Unlocking and Opening

### Unlocking - discharged battery

If you are unable to lock or unlock the vehicle because the vehicle battery or key fob battery has become discharged, use the mechanical key.

#### Unlocking and opening procedure



1. Push the release button (1) and remove the mechanical key (2) from the key fob.



2. Insert the mechanical key into the lock and, turn the key anti-clockwise until mechanical resistance is preventing full release of the door.
3. Apply pressure to the latch area of the door (to counteract pressure of the door seals), and turn the key further to release the door.

**i** NOTE: When the battery is discharged, the window will not lower slightly, away from the seals. Take care while opening the door, the window or the door seals could be damaged.

4. Fit the mechanical key back into the key fob.

**i** NOTE: Unlocking the vehicle using the mechanical key will activate the anti-theft system and may cause the alarm to sound. Once the door is open, open the centre console stowage compartment, place the key fob in front of the cup holder within 10 seconds. The vehicle will recognise the key fob and stop the alarm from sounding.

5. If the key fob battery has become discharged, replace the battery at the earliest possible opportunity, see Replacing key fob battery, page 6.35.



## Maintaining Your McLaren Manual Unlocking and Opening

### Starting the vehicle



If the key fob battery has become discharged, and the engine will not start, place the key fob in front of the cup holder, as shown.

In this position, the vehicle is able to sense the presence of the valid key fob and the vehicle can be started and driven.

Replace the key fob battery at the earliest possible opportunity, see Replacing key fob battery, page 6.35.

### Door opening from inside - discharged battery



To release a door from inside, release the manual door release strap retainer and pull the strap.

The door latch will then release, allowing the door to be partially raised before it automatically swings outwards and upwards.

**i** **NOTE:** When the battery is discharged, the window will not lower slightly, away from the seals. Take care while opening the door, the window or the door seals could be damaged.

To refit the release strap, feed the strap into its holder and snap the retainer into place.

**i** **NOTE:** Only use this strap when the battery has become discharged.

## Maintaining Your McLaren Manual Unlocking and Opening

### Opening front luggage compartment - discharged battery

- i** NOTE: The key fob or luggage compartment buttons on the dashboard will not release the luggage compartments if the battery is discharged or disconnected. In the event of this use the manual release mechanism.

#### Opening procedure



1. Push the release button (1) and remove the mechanical key (2) from the key fob.



2. Insert the mechanical key into the lock and, turn the key anti-clockwise until mechanical resistance is preventing full release of the door.
3. Apply pressure to the latch area of the door (to counteract pressure of the door seals), and turn the key further to release the door.

- i** NOTE: When the battery is discharged, the window will not lower slightly, away from the seals. Take care while opening the door, the window or the door seals could be damaged.

4. Fit the mechanical key back into the key fob.

- i** NOTE: Unlocking the vehicle using the mechanical key will activate the anti-theft system and may cause the alarm to sound. Once the door is open, open the centre console stowage compartment, place the key fob in front of the cup holder within 10 seconds. The vehicle will recognise the key fob and stop the alarm from sounding.



5. Pull the cable in the left-hand door aperture.

## Maintaining Your McLaren Manual Unlocking and Opening

6. The luggage compartment will fully unlock and open slightly.



7. Lift the luggage compartment lid and release the safety latch.
8. Open the luggage compartment lid, the gas struts will support it in the fully open position.
9. Fit the mechanical key back into the key fob.
10. If the key fob battery has become discharged, replace the battery at the earliest possible opportunity, see Replacing key fob battery, page 6.35.

### Replacing key fob battery

- i** NOTE: If the key fob battery has become discharged, the vehicle can still be started by placing the key fob in front of the cup holder and pressing the START/STOP. See Starting the vehicle, page 6.33.



1. Slide the back cover off the key fob.



2. Lift off the battery cover and remove the discharged battery.
3. Install a new battery, ensuring that the polarity is correct.

- i** NOTE: Handle the battery as little as possible. Moisture and oil from fingers can affect battery life and cause corrosion of the contacts. Only hold the battery on the edges.
4. Refit the battery cover, ensuring that it is clipped securely and sealed.
  5. Refit the key fob back cover.

# Maintaining Your McLaren Washers and Wipers

## Replacing the wiper blade

**WARNING:** Ensure the ignition is switched off before you replace the wiper blades. The windscreen wipers could be set in motion and injure you.

**WARNING:** Replace the wiper blades every 12 months or the windscreen will not be wiped properly. You may not be able to observe the road and traffic conditions as a result and could cause an accident.

### Parking the wiper blades

1. Press the STOP/START button once to switch on the ignition but **DO NOT** touch the brake pedal.
2. Pull the wiper control stalk towards you twice, the wipers will move to a winter park position and then to the service park position.

The winter park position locates the wiper arms vertically to aid water run-off and help prevent snow build-up.

The service park position locates the wiper arms in a convenient position for wiper blade replacement.

To remove the wiper blade



1. Position the wiper blades in the service park position on the windscreen see Parking the wiper blades, page 6.36.
2. Lift the wiper arms from the screen.

**NOTE:** Never open the luggage compartment lid when the wiper arms are positioned away from the windscreen. You could damage the luggage compartment lid and/or the wiper arms.

3. Rotate the wiper blade through 90° and remove in the direction of the arrow.

**NOTE:** Take care not to damage the washer fluid tube, which runs through the wiper arm and wiper blade.

**NOTE:** Do not lower the wiper arms onto the windscreen without the wiper blade fitted.

To install a new wiper blade

1. Slide the wiper blade onto the wiper arm and rotate 90°.

**NOTE:** Take care not to damage the washer fluid tube, which runs through the wiper arm and wiper blade.

**NOTE:** Ensure the wiper blade is securely fitted in the wiper arm.

2. Lower the wiper arms onto the windscreen.
3. Pull the wiper control stalk towards you once, the wipers will move back to the normal park position.

# Maintaining Your McLaren Wheels and Tyres

## Wheels and tyres

 **WARNING:** Have worn tyres replaced in axle pairs and ensure the tyres are fitted as specified. With worn tyres, the driving stability of the vehicle will be adversely affected, especially when driving at high speeds. Consult your McLaren retailer if you have had new tyres fitted for information on the appropriate bedding in time based on your driving style.

- With new tyres, avoid high speed cornering and excess speed.
- Only have wheels and tyres of the same type and make fitted.
- Never use a tyre which has been punctured and then repaired.
- Only have tyres of the correct size fitted.
- Tyres degrade over time due to the effects of ultraviolet light, extreme temperatures, high loads, and environmental conditions and should be regularly inspected, see Inspecting wheels and tyres, page 6.39.

- Irrespective of distance and remaining tread depth, it is advisable to have all tyres checked regularly by a tyre specialist and consider replacing the tyres, if required.

McLaren recommend that you only use tyres with sensors fitted, see Wheel and tyre sizes, page 7.08. If tyres that do not have sensors fitted are used, the tyre pressure monitoring system (TPMS) will not work and a warning lamp will be illuminated, see Instruments and warning lights, page 2.05.

These tyres provide the best possible performance in conjunction with the safety systems on your vehicle and have been specifically approved by McLaren.

McLaren cannot accept any responsibility for damage that may result from use of other tyres and wheels. Further information about wheels and tyres can be obtained from your McLaren retailer.

 **WARNING:** Using tyres other than those which have been recommended by McLaren, may contact the body work and adversely affect the handling. This may cause loss of vehicle control, resulting in serious personal injury or death. Noise levels and fuel consumption may also be adversely affected. In addition, when driving with a load or when using snow traction devices, they could cause contact between the bodywork and axle components. This could result in damage to the tyres or the vehicle.

 **NOTE:** Retreaded tyres must not be used. Do not fit used tyres if you have no information about their previous usage.

 **NOTE:** Modification to the brake system and wheels is not permitted, nor is the use of spacer plates or brake dust shields. Any such modifications will invalidate the vehicle warranty on the area modified.

## Maintaining Your McLaren Wheels and Tyres

**i** NOTE: A wheel change must be carried out at your McLaren retailer. The vehicle could be damaged if it is jacked up incorrectly.

**i** NOTE: Store tyres in a cool, dry place, preferably in the dark. Protect the tyres from oil, grease and petrol.

### Tyre markings



1. Width of tyre in millimetres.
2. Tyre profile given as percentage of tyre width.
3. Indicates that the tyre is radial ply.

4. Indicates the diameter of the wheel rim in inches.
5. The numbers denote load index and the letter indicates the speed rating. The actual load and speed rating of the tyre is declared and certified by the tyre manufacturer and may vary between manufacturer.

McLaren recommend that you only use tyres with sensors fitted, see Wheel and tyre sizes, page 7.08. If tyres that do not have sensors fitted are used, the tyre pressure monitoring system (TPMS) will not work and a warning lamp will be illuminated, see Instruments and warning lights, page 2.05.

6. Displays the maximum load which can be carried by the tyre.
7. Treadwear grade number. The higher the figure the longer a tyre will last.
8. The alpha character denotes resistance to heat. An 'A' rated tyre offers most heat resistance.
9. Information about the manufacture of the tyre. Contains place and date of manufacture.

The last four digits of the DOT code represent the manufacture date of the tyre, e.g. 5220. The first two numbers of the date code, e.g. 52, represent the calendar week number. The second two numbers of the date code, e.g. 20, represent the last two digits of the year, e.g. 2020.

### Tyres



**WARNING:** The tyres must be mounted according to the labelling on the tyre wall. The word 'OUTSIDE' must be on the outer edge of the tyre when it is fitted to the wheel or the stability of the vehicle will be adversely affected, especially at high speeds.

## Maintaining Your McLaren Wheels and Tyres

### Asymmetric tyres



Asymmetric tyres have a tread pattern that is different from one side of the tread to the other. This combination of tread offers better grip in both wet and dry conditions.

The outer tread features a larger stiffer tread pattern that aids with cornering stability. The inner tread pattern aids stability in wet conditions. A central groove in the tyre aids straight line stability.

 **WARNING:** Only tyres recommended by McLaren are to be fitted to the vehicle.

 **WARNING:** The tyres must be mounted according to the labelling on the tyre wall. The benefits of asymmetric tyres will only be available if the tyres are fitted correctly.

### Inspecting wheels and tyres

At least every 7 days, check the tyres for cuts, punctures, tears, bumps, deformation and cracks. Check wheels for severe corrosion. Damaged wheels could cause a loss of tyre pressure.

Regularly check the tyre tread depth and the condition of the tread across the whole width of the tyre. Turn the front wheels to full lock in order to inspect the inner tread.



When the tread is worn to 1.6 mm, the wear indicators appear on the surface of the tread pattern, producing a continuous band of rubber across the width of the tyre. Tyres must be replaced as soon as the wear indicator becomes visible, or sooner if legislation dictates replacement at a greater tread depth.

 **NOTE:** It is recommended that you always have your tyres replaced by your McLaren retailer.



# Maintaining Your McLaren Wheels and Tyres

**⚠ WARNING:** Tyre grip decreases rapidly on wet or icy roads, particularly when the tread depth is close to the minimum. You could lose control of the vehicle and cause an accident due to the reduced grip of the tyres. Reduce your speed and drive with greater care.

**i NOTE:** If tread wear is uneven across the tyre, or becomes excessive, the wheel alignment should be checked.

Regularly check the pressure of all your tyres and correct the pressure as necessary, see Tyre pressures, page 7.09.

All wheels must have a valve cap fitted to protect the valve against dirt and moisture.

## Driving precautions

When parking your McLaren, ensure that the tyres do not contact the kerb or other obstacles. If it is necessary to drive over kerbs, speed humps or potholes, drive slowly and approach the obstacle at a shallow angle or the tyres could be damaged.

While driving, pay attention to vibrations, noises and unusual handling characteristics, e.g. pulling to one side. This may indicate that the tyres or wheels are damaged. If you experience anything unusual, reduce your speed and stop the vehicle as soon as safety permits to check the tyres and wheels for damage. If you find no signs of damage, have the tyres and wheels inspected at your McLaren retailer.

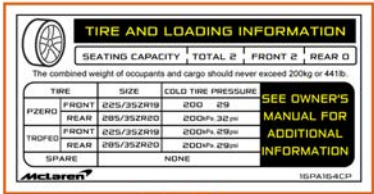
## Tyre pressures

**⚠ WARNING:** Tyre pressure that is too high or too low has a negative effect on the vehicle's active safety, this could lead to an accident. Frequently check the pressure of all tyres, particularly prior to long trips, and correct the pressure as necessary.

**⚠ WARNING:** If the pressure in a tyre drops repeatedly, inspect the tyre for foreign objects or signs of punctures, check the valve for air leaks.

For the tyre pressures for various operating conditions, see Tyre pressures, page 7.09.

Depending on the market, the tyre pressures can also be found on a label on the inside of the fuel filler flap or inside the driver's side door aperture.





## Maintaining Your McLaren Wheels and Tyres

If the vehicle is to be driven at high speeds, the tyre pressure must be checked, and if necessary adjusted.

 **NOTE:** In some markets, the tyre pressure label is attached to the base of the driver's side door.

 **NOTE:** Tyre pressures given for low loads are minimum values which offer optimum ride comfort. Increased pressures for higher loads will not adversely affect the running of the vehicle, but ride comfort will be impaired.

Check the pressures when the tyres are cold. If it is necessary to check the tyres when they are warm, pressures will be higher. Do not let air out of warm tyres to match the recommended cold tyre pressures.

 **WARNING:** Driving with tyre pressure that is too high or too low can:

- create a risk of tyre failure with resultant accidents, causing injury or death.
- shorten the life of the tyres.
- cause increased tyre damage.

- have a negative effect on handling characteristics (e.g. by causing aquaplaning).

 **ENVIRONMENTAL:** Check tyre pressures at least every 7 days.

Interchanging wheels

 **WARNING:** Only approved wheels with winter tyres can be fitted to your McLaren as alternatives.

### Deflated tyre

Your McLaren is equipped with a container of tyre sealant, which is located in the luggage compartment.

In the event of a puncture, follow the steps below to ensure your safety, and the safety of other vehicle occupants and other road users.

#### Repairing a puncture

1. Stop the vehicle as far away as possible from traffic and on a firm and level surface.
2. If on a public highway, switch on the hazard warning lamps, see Hazard warning lamps, page 1.38.
3. Apply the parking brake and select neutral.
4. Passengers should exit the vehicle safely and remain well away from the vehicle, the road and any traffic.
5. Place the warning triangle at an appropriate distance from the vehicle to warn other traffic of a breakdown, see Warning triangle, page 6.13.

## Maintaining Your McLaren Wheels and Tyres

### Using the tyre sealant



You can use the tyre sealant to seal small punctures, particularly those in the tyre's tread. The tyre sealant can be used at ambient temperatures down to -20°C (-4°F).

**WARNING:** The tyre sealant is unable to seal punctures if:

- there are cuts or punctures in the tyre greater than 4 mm.
- the wheel rims are damaged.
- you have driven at very low tyre pressures or with deflated tyres.

**Contact your McLaren retailer immediately.**

Remove the tyre sealant from the luggage compartment and follow the instructions on the container.

**i** NOTE: If possible, locate the cause of the puncture and position the wheel so the puncture is at the lowest point to enable the sealant to be more effective.

Have the punctured tyre replaced as soon as possible.

**WARNING:** Have punctured tyres replaced. McLaren do not recommend that punctured tyres are repaired.

**WARNING:** If the tyre sealant comes into contact with your eyes or skin, immediately rinse thoroughly with clean water, change out of clothing which has been in contact with the tyre sealant. If an allergic reaction occurs, contact a doctor immediately.

**WARNING:** Keep the tyre sealant out of reach of children. If tyre sealant is swallowed, immediately rinse the mouth thoroughly and drink a large amount of water. Do not induce vomiting. Contact a doctor immediately. Do not inhale tyre sealant fumes.

**i** NOTE: The tyre sealant could cause incorrect pressures to be displayed on the Driver Display. After using tyre sealant, the tyre, incorporating the tyre pressure monitoring system sensor, will have to be replaced.

# Maintaining Your McLaren Vehicle Care

## Washing your McLaren

 **ENVIRONMENTAL:** Some cleaning products contain chemicals that are hazardous to the environment. Always take precautions to prevent fluids from spilling and never use excessive quantities.

### Hand washing your McLaren

1. Pre-rinse the body thoroughly with a hose pipe held at a shallow angle to loosen any dirt and wet the paintwork ready for washing, avoiding direct spray on engine cover vents.
2. Prepare a bucket of warm water and a good quality car shampoo. Refer to the shampoo manufacturer's instructions for dilution ratios.

3. Working from the top of the vehicle down, wash the vehicle, ideally using a lambswool wash mitt rather than a sponge, use generous quantities of water paying particular attention to areas where dirt can accumulate. Use one wash mitt for the top of the vehicle (roof, luggage compartment lid and areas above the wheel arch line) and a separate mitt for areas below the wheel arch line.

 **NOTE:** Do not clean the wheels with these wash mitts.

 **NOTE:** Do not allow the shampoo to dry, it will leave streaks on the paint work.

4. Tar spots and stubborn grease marks can be removed using white spirit or denatured alcohol. After cleaning, immediately wash the area with soapy water to remove all traces of spirit or alcohol.
5. Once the vehicle is clean, work from the top of the vehicle down and rinse thoroughly using a hose pipe held at a shallow angle, avoiding direct spray on engine cover vents.
6. Dry the vehicle using a chamois leather or drying towel.

 **NOTE:** In case of signs of water in the engine bay, it is advised to drive the vehicle and warm the engine to operating temperature to dry off any excessive water from the engine.

### Washing the wheels

 **NOTE:** Wash the wheels frequently, do not allow brake dust to become ingrained in the wheel rim finish.

Wash the wheels using warm water, a good quality car shampoo and a wheel brush or wash mitt that is used only on the wheels. Apply polish to non-satin finished wheels to assist in keeping them clean.

 **NOTE:** Never apply polish to satin finish wheels, this will result in localised glossy patches on the surface of the wheel.

 **NOTE:** Do not use acid based wheel cleaners as these can damage the wheel rim finish leading to corrosion.

 **NOTE:** Ensure the brakes are fully dried after the wheels have been cleaned before the vehicle is stored.

# Maintaining Your McLaren Vehicle Care

## Wiper blades and rubber seals

Clean wiper blades and rubber seals using warm water and a good quality car shampoo only. Do not use petroleum or alcohol-based cleaners.

## Windscreen, windows and mirrors

Regularly clean all windows inside and out using a window cleaning solution. An automotive glass cleaner is recommended. After washing the vehicle with car shampoo containing wax, clean the outside of the windscreen with glass cleaner. Do not use abrasive cleaning compounds as mirror glass is particularly susceptible to damage.

## Underbody cleaning

Salt used on roads to control snow and ice during the winter can collect on the vehicle's underbody, if this is not removed, corrosion can occur. During the winter months, regularly hose the underbody with water paying particular attention to the wheel arches and areas where dirt can accumulate.

## Polishing

Occasionally polish the paint work using a good quality polish, following up with a protective wax.



**NOTE:** Do not use cutting compound, colour restoration products or polishes containing a harsh abrasive. These can scratch the surface and permanently damage the paint work.

## Paint damage and rectification

Regularly inspect the paint work for damage. Any stone chips or deep scratches should be repaired as soon as possible. Contact your McLaren retailer for advice.

## Cleaning the interior



**NOTE:** Your McLaren retailer will be able to recommend products for cleaning the interior of your vehicle.

## Carpet and fabrics

Before cleaning upholstery, always test the cleaning solution on a concealed area. Clean with diluted upholstery cleaner and a clean cloth.

## Leather

Before cleaning leather, always test the cleaning solution on a concealed area. Clean with warm water and a non-detergent soap or a proprietary leather cleaner. Dry with a dry, clean, lint-free cloth. Do not use abrasive cleaning products or polish.

Do not polish the upper surfaces of the dashboard. Polished surfaces are reflective and may interfere with the driver's view. Clean with diluted upholstery cleaner, then wipe with a damp cloth.

# Maintaining Your McLaren Vehicle Care

## Carbon Fibre

Before cleaning visible carbon fibre, always test the cleaning solution on a concealed area. Clean with a propriety matt dashboard cleaner. Contact your McLaren retailer for more information. Do not use abrasive cleaning products or polish.

## Alcantara®

Dust the material with care. Moisten a soft cloth or a sponge with water, wring it thoroughly and run it over the whole Alcantara® material. Make sure not to wet it excessively; rinse the cloth or sponge and repeat as necessary.

Leave the material to dry overnight.

Once the material has dried, in order to restore the material, brush it delicately with a soft bristle brush.

## Seat belts

Extend the belts and clean with warm soapy water only. Do not use any type of detergent or chemical cleaning product. Allow the belts to dry naturally while extended, preferably away from direct sunlight.

## Instruments and display screens

Clean the Driver Display and Central Infotainment Touchscreen using a damp cloth. Do not use abrasive cleaning products or polish.

## Car cover

A car cover, suitable for use inside a garage, can be purchased from your McLaren retailer.

McLaren recommend that the vehicle is covered if it is to be left in storage for periods over two weeks. Clean the vehicle inside and out, ensuring that it has fully dried, prior to fitting the cover.

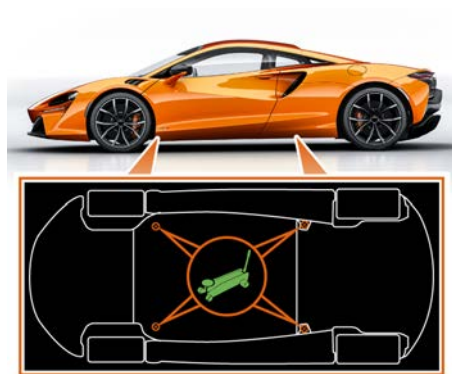


**NOTE:** Allow the engine to cool before fitting the cover or the hot exhaust pipes could cause damage to the cover.

## Maintaining Your McLaren

### Raising the Vehicle

#### Vehicle lifting points



 **WARNING:** Ensure the vehicle is correctly positioned on a jack or vehicle lift before raising the vehicle to a workable height. Always engage vehicle lift safety locks or use suitable stands to ensure your safety before working under the vehicle.

Refer to the illustration, and labels on the vehicle, for correct lifting locations.

Make this information available to any third parties who may be assisting in the recovery of your McLaren.

 **NOTE:** Lifting the vehicle at any other points will damage the vehicle.

 **NOTE:** Use a jack with a flat lifting platform and a rubber pad to protect the chassis from surface damage. Do not lift under a body panel.

# Maintaining Your McLaren

## McLaren Assistance

### McLaren assistance

If your McLaren is immobilised, do not attempt to make your own arrangements for assistance. Refer to your Service and Warranty Guide, this contains all the information you need.

### Replacement 12V battery

If your McLaren has been immobilised due to a fault with the vehicle battery, the battery must only be replaced with a lithium-ion battery of the correct specification by your McLaren retailer.

### In the event of a breakdown

In the event of a problem with your vehicle, contact your McLaren retailer. If your McLaren retailer is unavailable, contact the roadside assistance operator who is available 24 hours a day, 7 days a week.



**NOTE:** The contact details of your roadside assistance operator can be found in your Service and Warranty Guide.

The McLaren retailer or roadside assistance operator will verify your identity and that of your vehicle, as well as determining your exact location.

They will then discuss the problem with you and, with your agreement, determine the best solution.

## Maintaining Your McLaren McLaren Assistance

### Towing for recovery

Your McLaren is equipped with a front towing eye mounting only.

- i** **NOTE:** Do not tow the vehicle, doing so could damage the gearbox. The towing eye must only be used to winch the vehicle onto a trailer or transporter for recovery purposes.  
Do not use a rigid bar to tow the vehicle.

#### Towing eye and mounting

1. Remove the cover from the towing eye mounting in the front bumper.



2. Screw the towing eye clockwise into the mounting hole, ensuring that it is screwed in to the full extent of the thread.

- i** **NOTE:** To avoid damage to the towing eye and the vehicle, it is important to ensure that the towing eye is in full contact with the mating surface of the front structure.

- i** **NOTE:** A winch cable/strap must be secured to the towing eye only or the vehicle could be damaged.

3. Remove the towing eye, stow it in the luggage compartment and refit the cover to the towing eye mounting as soon as the vehicle has been recovered.



## Maintaining Your McLaren Driving Abroad

### Driving abroad

McLaren retailers are also at your disposal when you are travelling abroad.

The legal requirements when driving abroad vary from country to country and are constantly changing. Always seek advice from your McLaren retailer regarding what is required to remain legal in the countries in which you are travelling.

In certain countries, only low-octane fuel is available. For further information about fuel grades, see Recommended fuel, page 2.59.

 **NOTE:** The headlamp asymmetric dipped beam is designed to light up the near side of the road more intensely. On your McLaren, the same headlamp dipped beam setting applies for driving on either the left-hand or right-hand side of the road.







# Vehicle Data and Glossary

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## Vehicle Data and Glossary

# Genuine McLaren Parts and Accessories

### Overview

McLaren recommend that you only use genuine McLaren replacement parts and accessories. The use of non-genuine parts could have a detrimental effect on the vehicle's operation and safety. McLaren tests replacement parts and accessories, for reliability, safety and suitability. McLaren accepts no responsibility for the use of non-genuine parts on their vehicles, even if they have been independently approved.

In many countries, replacement parts and accessories are only officially approved for installation if they comply with legal requirements. All genuine McLaren replacement parts and accessories meet these requirements.

Genuine McLaren parts and accessories can be obtained from your McLaren retailer where the parts will be professionally fitted.

Ensure that any accessories are suitable for your McLaren. Accessories which constitute a modification to the vehicle could invalidate the vehicle's warranty. This applies if they:

- change the vehicle type approved in the warranty.
- could endanger road users.

- adversely affect the vehicle's emissions and noise levels.

Always quote the vehicle identification number when ordering parts or accessories. See Vehicle identification number (VIN), page 7.03.

Some technical specification information in the Owner's Handbook is not available at the time of print, or is subject to updates after printing. In some cases this updated information may be sent to your vehicle Over The Air (OTA), see Over-the-air (OTA) software updates, page 4.48. The latest information for your vehicle can also be viewed online at:

[cars.mclaren.com/en/ownership/  
service-and-maintenance/owners-handbook](https://cars.mclaren.com/en/ownership/service-and-maintenance/owners-handbook)

## Vehicle Data and Glossary

### Vehicle Identification

#### Vehicle identification number (VIN)



The vehicle identification number can be found on the bottom left-hand corner of the windscreen.

The number can also be found engraved on the body behind the right-hand seat, stamped on a plate at the base of the driver's side door aperture and viewed in the System section on the Driver Display, see VIN , page 4.20.

#### VIN plate



The vehicle identification number plate also contains the following:

- Maximum permitted laden weight
- Maximum permitted laden weight including trailer
- Maximum permitted front axle laden weight
- Maximum permitted rear axle laden weight

# Vehicle Data and Glossary Data

## Overview

This section contains all the necessary technical data for your vehicle and applies to the vehicle's standard equipment. The data may therefore differ for vehicles with optional equipment. You can obtain further information from your McLaren retailer.

## Vehicle operating temperatures

|                                       |                |
|---------------------------------------|----------------|
| Minimum ambient operating temperature | -20°C (-4°F)   |
| Maximum ambient operating temperature | +50°C (+122°F) |

**i** NOTE: If the vehicle is used outside the minimum and maximum ambient temperatures, performance degradation may be experienced. McLaren disclaims any liability of the stated engine power not being achieved if the vehicle is being used outside of the stated temperature ranges or being used at altitude.

## Powertrain

| Engine specification       |                                                   |
|----------------------------|---------------------------------------------------|
| Rated output (kW) @rpm     | 430 @ 7,500 (ICE)<br>71 @ 2,511 - 8,300 (eMotor)  |
| Rated output (PS) @rpm     | 585 @ 7,500 (ICE)<br>97 @ 2,511 - 8,300 (eMotor)  |
| Rated torque (Nm) @rpm     | 585 @ 2,250 - 7,000 (ICE)<br>270 @ 1,000 (eMotor) |
| Rated torque (lb-ft) @rpm  | 431 @ 2,250 - 7,000 (ICE)<br>199 @ 1,000 (eMotor) |
| Number of cylinders        | 6                                                 |
| Displacement cm³           | 2,993                                             |
| Maximum engine speed (rpm) | 8,500                                             |



# Vehicle Data and Glossary

## Data

|                                     |     |
|-------------------------------------|-----|
| Power to weight ratio<br>(PS/tonne) | 488 |
|-------------------------------------|-----|

### Maximum speeds in each gear

| Gear     | mph (km/h) |
|----------|------------|
| 1st gear | 52 (83)    |
| 2nd gear | 75 (121)   |
| 3rd gear | 104 (168)  |
| 4th gear | 134 (216)  |
| 5th gear | 164 (264)  |
| 6th gear | 198 (318)  |
| 7th gear | 205 (330)  |
| 8th gear | 204 (329)  |

### Gear ratios

|             |         |
|-------------|---------|
| 1st gear    | 12.92:1 |
| 2nd gear    | 8.85:1  |
| 3rd gear    | 6.46:1  |
| 4th gear    | 5.05:1  |
| 5th gear    | 4.12:1  |
| 6th gear    | 3.42:1  |
| 7th gear    | 2.85:1  |
| 8th gear    | 2.33:1  |
| Final drive | 3.58:1  |

# Vehicle Data and Glossary

## Data

### Vehicle dimensions



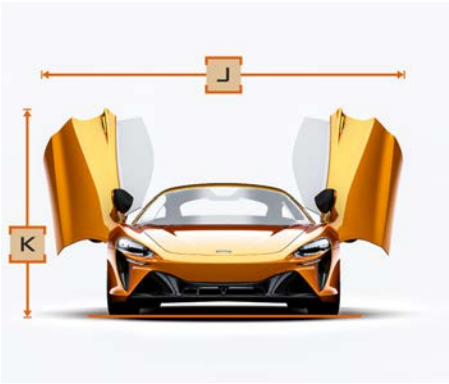
|   |                |                        |
|---|----------------|------------------------|
| A | Vehicle length | 4,539 mm (14 ft 11 in) |
| B | Wheelbase      | 2,640 mm (8 ft 8 in)   |
| C | Rear overhang  | 804 mm (2 ft 8 in)     |
| D | Front overhang | 1,095 mm (3 ft 7 in)   |

|   |                              |               |
|---|------------------------------|---------------|
| E | Ground clearance (normal)    | 91 mm (4 in)  |
|   | Ground clearance (nose lift) | 139 mm (5 in) |
| F | Approach angle (normal)      | 8.1°          |
|   | Approach angle (nose lift)   | 10.3°         |
| G | Departure angle (normal)     | 16.7°         |
|   | Departure angle (nose lift)  | 15.8°         |



|   |                                              |                       |
|---|----------------------------------------------|-----------------------|
| H | Vehicle width (doors closed, mirrors folded) | 1,976 mm (6 ft 6 in)  |
| I | Vehicle height (doors closed, normal)        | 1,193 mm (3 ft 11 in) |
|   | Vehicle height (doors closed, nose lift)     | 1,215 mm (4 ft)       |

# Vehicle Data and Glossary Data



|   |                                            |                      |
|---|--------------------------------------------|----------------------|
| J | Vehicle width (doors open at widest point) | 2,871 mm (9 ft 5 in) |
| K | Vehicle height (doors open)                | 1,954 mm (6 ft 5 in) |

 NOTE: All dimensions are approximate.

## Vehicle weights

| Weight                                                 | kg (lbs)      |
|--------------------------------------------------------|---------------|
| Dry weight                                             | 1,395 (3,075) |
| Unladen weight (all fluids and 90% fuel)               | 1,498 (3,303) |
| Kerb weight (plus 75 kg driver)                        | 1,578 (3,479) |
| Kerb weight distribution - front axle                  | 671 (1,479)   |
| Kerb weight distribution - rear axle                   | 907 (2,000)   |
| Maximum gross vehicle weight (GVW)                     | 1,756 (3,871) |
| Maximum gross vehicle weight distribution - front axle | 802 (1,768)   |

|                                                       |             |
|-------------------------------------------------------|-------------|
| Maximum gross vehicle weight distribution - rear axle | 954 (2,103) |
| Maximum load - front luggage compartment              | 50 (110)    |

# Vehicle Data and Glossary

## Data

### Wheel and tyre sizes

#### Wheel sizes

|              |            |
|--------------|------------|
| Front wheels | 8.5J x 19  |
| Rear wheels  | 10.5J x 20 |

#### Summer tyres

|                              |                      |
|------------------------------|----------------------|
| Front tyres                  |                      |
| Pirelli P ZERO™ (MC-C)       | 235/35 ZR19 (91Y) XL |
| Pirelli P ZERO™ Corsa (MC-C) | 235/35 ZR19 (91Y) XL |

|                              |                       |
|------------------------------|-----------------------|
| Rear tyres                   |                       |
| Pirelli P ZERO™ (MC-C)       | 295/35 ZR20 (105Y) XL |
| Pirelli P ZERO™ Corsa (MC-C) | 295/35 ZR20 (105Y) XL |

#### Winter tyres

|                               |                       |
|-------------------------------|-----------------------|
| Front tyres                   |                       |
| Pirelli P ZERO™ Winter (MC-C) | 235/35 R19 91W XL M+S |

|                               |                        |
|-------------------------------|------------------------|
| Rear tyres                    |                        |
| Pirelli P ZERO™ Winter (MC-C) | 295/35 R20 105W XL M+S |

# Vehicle Data and Glossary Data

## Turning circle

|                                |                   |
|--------------------------------|-------------------|
| Turning circle<br>kerb-to-kerb | 12 m (39 ft 4 in) |
|--------------------------------|-------------------|

## Tyre pressures

| Loading condition                 | Front wheels |     | Rear wheels |     |
|-----------------------------------|--------------|-----|-------------|-----|
|                                   | Bar          | Psi | Bar         | Psi |
| Normal use                        | 2.2          | 32  | 2.2         | 32  |
| Speeds over 165 mph<br>(270 km/h) | 2.7          | 39  | 2.7         | 39  |

Depending on the market, the tyre pressures can also be found on a label on the inside of the fuel filler flap or inside the driver's side door aperture.



|  | TIRE AND LOADING INFORMATION |             |                    |         |                                                        |
|-------------------------------------------------------------------------------------|------------------------------|-------------|--------------------|---------|--------------------------------------------------------|
|                                                                                     | SEATING CAPACITY             |             | TOTAL 2            | FRONT 2 | REAR 0                                                 |
| The combined weight of occupants and cargo should never exceed 200kg or 441lb.      |                              |             |                    |         |                                                        |
|                                                                                     | TYRE                         | SIZE        | COLD TYRE PRESSURE |         | SEE OWNER'S<br>MANUAL FOR<br>ADDITIONAL<br>INFORMATION |
| PZERO                                                                               | FRONT                        | 205/35ZRW19 | 200 psi            |         |                                                        |
|                                                                                     | REAR                         | 285/35ZRW20 | 200psi, 32 psi     |         |                                                        |
| TROFEO                                                                              | FRONT                        | 205/35ZRW19 | 200psi, 29psi      |         |                                                        |
|                                                                                     | REAR                         | 285/35ZRW20 | 200psi, 29psi      |         |                                                        |
| SPARE                                                                               | NONE                         |             |                    |         |                                                        |
|  |                              |             |                    |         | 100PA10-4C.P                                           |



# Vehicle Data and Glossary

## Service Products, Fluids and Capacities

### Service products

Service products are fuel, engine oil, coolant and brake fluid. McLaren recommend that you only use products tested and approved for McLaren. Damage resulting from using non-approved service products is not covered by the liability for material defects.

 **WARNING:** When handling, storing and disposing of any service products, please observe the relevant regulations. Failure to do so could endanger people and the environment. Do not allow service products to come into direct contact with your eyes or open wounds. Contact a doctor immediately if any service product is swallowed.

 **ENVIRONMENTAL:** Dispose of service products in an environmentally responsible manner.

### Engine oil



|                     |            |
|---------------------|------------|
| Engine oil capacity | 9.3 litres |
|---------------------|------------|

McLaren recommend using Gulf Formula Elite 5W-40 (API SP, ACEA C3).

Gulf Formula Elite is an advanced, fully synthetic oil that provides enhanced deposit and wear protection. It also offers protection against possible Low Speed Pre-Ignition (LSPI) in latest Turbocharged Gasoline Direct Injection (TGDI) engines.

As per industry standard tests, it can offer up to:

40% more deposit control<sup>1</sup>

37% less wear<sup>2</sup>

90% better soot handling<sup>3</sup>

1 As per industry standard test Seq. IIH for API SP

2 As per industry standard test OM646LA for ACEA C3

3 As per industry standard test DV6C for ACEA C3

You may obtain further information from your McLaren retailer.

 **NOTE:** Do not use any lubricant additives. These could lead to increased wear and damage to the mechanical assemblies. Damage caused by additives, which are not approved, is not covered by the McLaren warranty.

## Vehicle Data and Glossary

### Service Products, Fluids and Capacities

#### Fuel

 **WARNING: Fuel is highly flammable. Fire, naked flames and smoking are prohibited when handling fuels. Switch off the engine before refuelling.**

 **WARNING: Do not allow fuel to come into contact with skin or clothing. Allowing fuels to come into direct contact with your skin or inhaling fuel vapours is damaging to your health.**

For more information about fuel, see Recommended fuel, page 2.59.

#### Fuel tank

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Total capacity                                           | 66 litres (14.5 UK gal.) |
| Capacity remaining when amber low level lamp illuminates | 11 litres (2.4 UK gal.)  |
| Capacity remaining when red low level lamp illuminates   | 5 litres (1.1 UK gal.)   |

#### Coolant

|                                                    |                         |
|----------------------------------------------------|-------------------------|
| Cooling system capacity                            | 28 litres (6.2 UK gal.) |
| Antifreeze quantity for protection to -20°C (-4°F) | 14 litres (3.1 UK gal.) |

The coolant is a mixture of water, antifreeze and corrosion inhibitor. It performs the following functions in the cooling system:

- Antifreeze protection
- Increased efficiency of the cooling system
- Offers anti-corrosion protection

 **NOTE: Use coolant in all climates, all year round. If coolant is not used, the cooling system will not be sufficiently protected from corrosion and the cooling system efficiency will be reduced.**

 **NOTE: To prevent damage to the engine, only top up with a pre-mixed coolant that provides the desired level of antifreeze protection.**

If antifreeze/corrosion inhibitor is present in the correct concentration, the boiling point of the coolant will be around 130°C (266°F). The antifreeze and corrosion inhibitor concentration in the cooling system should be approximately 50% ±5%. This will protect the cooling system against freezing in temperatures of -40°C (-40°F).

The antifreeze and corrosion inhibitor concentration in the cooling system should not exceed 55%, which provides antifreeze protection down to -45°C (-49°F), as a higher concentration will not dissipate heat as effectively.

If the vehicle is losing coolant, do not drive your vehicle and contact your McLaren retailer.

## Vehicle Data and Glossary

### Service Products, Fluids and Capacities

#### Brake fluid

Only use Pentosin DoT 5.1 brake fluid.

Over time, the brake fluid absorbs moisture from the air, this reduces its boiling point.



**WARNING:** If the boiling point of the brake fluid is reduced too much, vapour pockets may form in the brake system when the brakes are applied hard (e.g. when driving downhill or track driving) impairing the braking efficiency. Therefore, the brake fluid must be replaced at the recommended service intervals.



**WARNING:** Only use fluid from new, air tight containers.

#### Windscreen washer fluid



**WARNING:** Some washer fluids are highly flammable. Fire, naked flames and smoking are prohibited when handling washer fluid.



**WARNING:** Washer fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.

The reservoir has a capacity of approximately 3 litres.

Dilute the screenwash concentrate as instructed by the screenwash manufacturer.



**NOTE:** The concentration of to the screenwash required may vary in different seasons.



# Vehicle Data and Glossary

## Technical Glossary

### Technical glossary

#### Active dynamics control

A system that allows the driver to change the handling and performance characteristics of the vehicle.

#### Adaptive Cruise Control (ACC)

Adaptive Cruise Control (ACC) automatically adjusts the vehicle speed to maintain a set distance from vehicles in the lane ahead.

#### Anti-lock braking system (ABS)

The ABS prevents the wheels from locking when you brake. This allows the vehicle to be steered during braking manoeuvres.

#### Auto High Beam Assist

The Auto High Beam Assist feature automatically activates the high beam headlamps when traffic and environmental conditions allow. The feature automatically deactivates the main beam headlamps when required due to environmental conditions and to avoid glaring other road users.

#### Automatic driver recognition cards

A card which must be on the person entering the vehicle or the tracker system signals that the vehicle is being moved without authorisation.

#### Brake assist system

The brake assist system operates in emergency braking situations. If you depress the brake pedal quickly, the brake assist system automatically increases the force being applied to the brakes and thus shortens the stopping distance.

#### Brake disc wiping

Brake disc wiping operates when the windscreen wipers are switched on. It prevents moisture build up on the brake discs during periods of heavy rain, by applying the brakes momentarily, so that the pads touch the discs.

#### Brake steer

Brake steer offers the benefits of a torque vectoring differential, but is integrated into the braking system reducing weight and providing excellent speed of response.

If the system detects that the vehicle is starting to understeer through a corner, the inside rear brake is gently applied. This helps to increase the yaw rate of the vehicle, making the vehicle feel more resistant to understeer. The lateral 'g' force is also increased giving better handling characteristics.

If the driver uses too much throttle exiting a corner, the inside rear wheel increases speed, which without brake steer could cause the vehicle to become unstable. In this situation, brake steer will again gently apply the brake on the inside rear wheel, thereby restoring traction and stability.

#### Cylinder cut

Cylinder cut operates during automatic upshifts in Sport and Track powertrain modes and manual upshifts in Comfort powertrain mode.

When calling for an upshift under hard acceleration, fuel is interrupted (cut) in a defined number of engine cylinders. This rapidly decreases the engine torque and engine speed, allowing faster upshifts to be achieved. This will make the upshift more audibly noticeable than a normal upshift.

# Vehicle Data and Glossary

## Technical Glossary

### Electronic brake pre-fill

If the accelerator pedal is suddenly released, the electronic brake pre-fill function immediately brings the brake pads into contact with the discs, enabling more rapid braking.

### Electronic stability control (ESC)

ESC monitors driving stability and traction between the tyres and the road surface.

### Global positioning system (GPS)

By means of the appropriate receivers, satellite signals supply information on the geographical position of the vehicle. These signals are compared with a digital map and used both to determine the position of the vehicle and for its route guidance.

### Handling control

The handling control switch affects the Proactive Chassis Control II system.

### Hill hold control

Hill hold control prevents roll-back on hill starts. The brake system automatically applies the brakes until the accelerator is pressed.

### Inertia push

When in Track powertrain mode and calling for an upshift at high engine speeds under hard acceleration, inertia push delivers greater acceleration. Under normal driving conditions, outside of inertia push when maximum performance is not called for, the engine and transmission speeds are aligned for a smooth seamless upshift. However, with inertia push, the clutch holding the next gear is engaged with greater force and the engine speed is not allowed to decrease fully, therefore utilising the inertia of its internal rotating masses. This in turn provides a torque impulse as the gear is engaged aiding acceleration and maximising performance.

### Keyless entry

Keyless entry allows the driver to unlock the vehicle and disarm the alarm by simply opening the door when the key fob is within 1.2 m (3 ft 11 in) of the door sensors.

### Launch control

Launch control is designed to give the maximum acceleration performance from a standing start.

### Motorway function lighting

The motorway function lighting improves the headlamp illumination range when the vehicle speed exceeds a predetermined threshold.

### Parking sensors

The parking sensor system comprises four ultrasonic sensors in the front bumper, four ultrasonic sensors in the rear bumper and two sounders. When the parking sensors detect an obstruction while manoeuvring, the sounders provide an audible warning.

### Performance shift cue (PSC)

PSC is an audible shift indicator, which will sound to indicate that an upshift is required to maintain optimum performance.

### Rear view camera (RVC)

The RVC is mounted in the centre of the rear bumper. The live video feed is displayed on either the Driver Display or the Central Infotainment Touchscreen when the function is active.

## Vehicle Data and Glossary

### Technical Glossary

#### Road Sign Recognition (RSR)

The Road Sign Recognition (RSR) system can inform the driver of new speed limits or other important information read from road signs. This information can also be used by other Advanced Driver Assistance System (ADAS) features, such as Adaptive Cruise Control (ACC).

#### Seamless shift gearbox

The seamless shift gearbox is an 8 speed, dual clutch gearbox. Gear changes can be fully automatic or driver controlled. The gear changes are almost instantaneous. It is this coupled with uninterrupted torque delivery from the hybrid powertrain, combining the engine and eMotor, which provides the relentless acceleration.

#### Static Adaptive Headlamps

With the headlamps on, the Static Adaptive Headlamps adjust the beams when cornering, providing improved illumination in the direction of travel.

#### Supplementary restraint system (SRS)

The SRS comprises a number of air bags which are automatically deployed in an accident to provide additional occupant protection.

#### Tyre pressure monitoring system (TPMS)

The TPMS constantly checks the pressure and temperature in all four tyres. It warns if the pressure drops or the temperature rises in one or more of the tyres.

#### Vehicle identification number (VIN)

The VIN is a unique 17 digit number which provides information about your vehicle, as well as when and where it was built.







# Conformity Information

**Compliance.....8.02**

- McLaren Infotainment System (MIS).....8.02
- Tyre Pressure Monitoring System (TPMS) Sensors.....8.03
- Tyre Pressure Monitoring System (TPMS) Smart Connectivity  
Module.....8.05
- Smart Key Fob.....8.06
- RED Declaration of Conformity - Telematics unit type 2148.....8.07
- RED Declaration of conformity - Driver card type 2781.....8.09
- Alarm.....8.12
- Driver assistance radar.....8.13
- HomeLink.....8.14
- Telecommunication Control Unit (TCU).....8.15
- Access Start Control Unit (ASCU).....8.16

# Conformity Information Compliance

## McLaren Infotainment System (MIS)

All regions/markets

Product: ADI GEN 2.0

Model: ICU

Europe



40 Avenue des Terroirs de France

75012 Paris, France



E2\*10R05/01\*19097\*00

faurecia clarion

### EU DECLARATION OF CONFORMITY

We, Faurecia Clarion electronics Europe S.A.S, 40 avenue des terroirs de France, 75012 Paris, France, declare under our sole responsibility that our product:

**ADI GEN 2.0**  
Model: ICU

Is in conformity with:

- Radio Equipment Directive 2014/53/EU
- Low Voltage Directive (2014/35/EU)
- RoHS Directive 2011/65/EU

The following standards and technical specifications have been applied under directive 2014/53/EU:

|                                            |                                           |
|--------------------------------------------|-------------------------------------------|
| IEC 62368-1:2014 + A1:2015                 | Electrical Safety Requirements (Art.3.1a) |
| EN 62311 (2008-10)                         | RF Exposure (Art.3.1a)                    |
| ETSI EN 301 489-01 V2.2.0 (2017-03)        | EMC (Art.3.1a)                            |
| ETSI EN 301 489-3 V2.2.1 (2017-03) (DRAFT) | EMC (Art.3.1a)                            |
| ETSI EN 301 489-1 V2.2.0 (2017-03) (DRAFT) | EMC (Art.3.1a)                            |
| EN 5832 (2015)                             | EMC (Art.3.1a)                            |
| EN 61000-4-3 (2006) + A1:2007 + A2:2010    | EMC (Art.3.1a)                            |
| EN 61000-4-4 (2014)                        | EMC (Art.3.1a)                            |
| EN ETSI 300 320 V2.1.1 (2016-11)           | Radio (Art.3.2)                           |
| EN ETSI 301 893 V2.1.1 (2016-11)           | Radio (Art.3.2)                           |
| EN ETSI 301 413 V1.1.1 (2017-06)           | Radio (Art.3.2)                           |
| EN ETSI 300 440 V2.1.1 (2017-03)           | Radio (Art.3.2)                           |

The following standards and technical specifications have been applied under directive 2011/65/EU:

|                        |      |
|------------------------|------|
| IEC 62321-(1-7) (2013) | RoHS |
|------------------------|------|

Signed and on behalf of:

Paris, 08/06/2020

FAURECIA CLARION ELECTRONICS EUROPE SAS  
Société à responsabilité limitée  
Siège social : 40 Avenue des Terroirs de France - 75012 Paris  
N° de RCS : 528 117 13 50 15  
N° de SIRET : 528 117 13 50 15  
N° de TVA Intracommunautaire : FR 528 117 13 50

Lakhbir Bousquet  
Qualification Manager



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SHET - 808 981 134 000 39 - CODE APE : 2630Z - N° ID-TVA : FR 17 808 981 136

Manufacturer:

Faurecia Clarion Electronics Europe S.A.S



## Conformity Information Compliance

### Tyre Pressure Monitoring System (TPMS) Sensors

Sensor Name: Cyber™ Pirelli Sensor Node (PSN).

Model: PSN-09S

Manufacturer: Pirelli Tyre S.p.A

Via Piero e Alberto Pirelli 25, 20126 Milano, Italy

UK Importer: Pirelli UK Tyres Limited

Derby Road, Burton-on-Trent, Staffordshire,  
DE13 0BH, UK

Made in Italy

### EU Declaration of Conformity

Hereby, Pirelli Tyre S.p.A., declares that the radio equipment PSN-09S is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://cyber.pirelli.com/declaration-conformity>

Frequency band: 2400-2483.5 MHz

Maximum Transmission Power: <1 mW



### UKCA Declaration of conformity

Hereby, Pirelli UK Tyres Limited, declares that the radio equipment PSN-09S is in compliance with the Radio Equipment Regulations 2017 No. 1206

The full text of the UKCA declaration of conformity is available at the following internet address:

<https://cyber.pirelli.com/declaration-conformity>



### Other Conformities

List of all countries and relevant certificates are available at the website:

<https://cyber.pirelli.com/declaration-conformity>

### General Safety Warnings

The tyre is equipped with a Pirelli Sensor Node (PSN) sensor (hereinafter referred to as the Sensor), a radio device equipped with a lithium battery which is neither replaceable nor rechargeable. When using the tyre, the specified conditions of use for the tyre itself must be respected.

### Battery WARNING

Improper use of the tyres and the Sensors can cause harm to human health and the environment.

## Conformity Information Compliance

Disassembly of the Sensor and its battery by the user is prohibited. The lithium batteries inside the Sensors contain flammable material. The substances contained in the battery are harmful and can have a negative impact on human health and the environment. Improper use of lithium batteries can cause overheating which could lead to a fire or explosion, with the risk of personal injury and/or environmental damage. To avoid such incidents during use/handling of the batteries, ensure you observe the following precautions:

- Do not dispose of the batteries in fire.
- Do not heat the batteries or expose them to sources of heat.
- Do not disassemble the batteries.

In the event of improper use of and/or accidental damage to the battery which causes the contents to leak out, follow the precautions outlined below.

- Inhalation: the fumes can cause respiratory irritation; leave the area and go to a cool and well-ventilated location.
- Contact with skin: wash immediately with plenty of water and seek medical attention, particularly if any irritation persists.

- Contact with eyes: wash immediately with plenty of water for at least 15 minutes.
- Contact with mouth: rinse immediately with plenty of water and seek medical attention.

In the event of a fault with the sensor and possible accidental damage to the battery which causes the contents to leak out, it is recommended to use appropriate personal protective equipment (PPE) and follow the instruction above. According to Art.33 of the EU Regulation n.1907/2006 (REACH), the batteries contain the following substances: 1, 2 - dimethoxymethane; ethylene glycol dimethyl ether (EGDME) (CAS no: 110-71-4) e 1, 3 - propanesultone (CAS no: 1120-71-4).

### Waste Sorting and Recycling of the Sensors

It is the installer's responsibility to dispose of the Sensors in accordance with applicable legislation. Incorrect disposal of materials can lead to penalties in accordance with applicable legislation. Separating waste and recycling contributes to the preservation of natural resources and ensures correct recovery of materials, helping protect human health and the environment.

Sensors on worn tyres must be removed from the tyre and disposed of in accordance with applicable legislation. For further information on the methods and locations for disposing of used Sensors, contact Pirelli at:

[disposal.cyber@pirelli.com](mailto:disposal.cyber@pirelli.com)



The crossed-out wheellie bin symbol on the Sensors indicates that the Sensors and the batteries contained in them must be disposed of separately, and NOT with unsorted urban waste.

# Conformity Information Compliance

## Tyre Pressure Monitoring System (TPMS) Smart Connectivity Module

Hereby, Valeo Comfort and Driving Assistance declares that the radio equipment type BLXH1A is in compliance with the Statutory Instruments 2017 No. 1206 (The Radio Equipment Regulations 2017).

The full text of the UK Declaration of Conformity is available at the following internet address:

<https://valeo-clientportal.com>

**Product:**

Smart Connectivity Module (BRT, VRR)

**Model:**

BLXH1A

UK  
CA



**Manufacturer:**

Valeo Comfort and Driving Assistance

76 Rue Auguste Perret

F-94046 Creteil, France



Comfort and Driving Assistance Systems

### Declaration of Conformity in accordance with the Radio Equipment Directive 2014/53/EU (RED)

ref: declaration\_21010

Object of the declaration:  
Radio equipment: Smart Connectivity Module (BRT, VRR)  
Model type: BLXH1A

Manufacturer: Valeo Comfort and Driving Assistance  
Address: 76, rue Auguste Perret  
F-94046 Creteil - CEDEX  
France

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:  
2014/53/EU The Radio Equipment Directive

Presumption of conformity is shown by compliance with the applicable requirements of the following documents:  
1. EN 62368-1:2014 + AC:2015 + AC:2017 + A11:2017 Protection of health and safety (art. 3.1. (a))  
EN 62479: 2010

2. EN 301 489-1 V2.2.3  
EN 301 489-2 V2.1.1  
EN 301 489-17 V2.2.4

Level of Electromagnetic Compatibility (art. 3.1. (b))

3. EN 300 442 V2.1.1  
EN 300 328 V2.2.2

Efficient use of the Radio Frequency Spectrum (art. 3.2)

Signed for and on behalf of: Valeo Comfort and Driving Assistance  
Place of issue: Creteil  
Date of issue: 10/02/2021  
Name: Jean-Claude GOURMY  
Position: Connected Car Business Group R&D Director  
Signature:

Valeo Comfort and Driving Assistance - 76, Rue Auguste Perret - 94046 Creteil Cedex - France  
S.A.S. au capital de 485 500 000 € - RCS 525 187 935 Creteil  
www.valeo.com

## Conformity Information Compliance

### Smart Key Fob



**WARNING: Do not ingest battery.**  
**Chemical Burn Hazard.**

**This product contains a coin / button cell battery.**

**If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.**

**Keep new and used batteries away from children.**

**If the battery compartment does not close securely, stop using the product and keep it away from children.**

**If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.**



**WARNING: Risk of explosion if the battery is replaced by an incorrect type.**

**Replace battery with the same type.**



**WARNING: Risk of explosion or the leakage of flammable liquid or gas.**

**Do not use in /store in /bring into environment of extremely high temperature or extremely low pressure due to the very high altitude.**  
**Do not attempt to burn, crush, or cut used battery.**

Hereby, Valeo Comfort and Driving Assistance declares that the radio equipment type KFML1 is in compliance with the Statutory Instruments 2017 No. 1206 (The Radio Equipment Regulations 2017).

The full text of the UK Declaration of Conformity is available at the following internet address:

<https://valeo-clientportal.com>

Product:

Key Fob

Model:

KFML1



Manufacturer:

Valeo Comfort and Driving Assistance

76 Rue Auguste Perret

F-94046 Creteil, France

# Conformity Information Compliance



Comfort and Driving Assistance Systems

## Declaration of Conformity

in accordance with the Radio Equipment Directive 2014/53/EU (RED)

Ref: CDE000ML1/21020

### Object of the declaration:

Radio equipment: Key Fob  
Model type: **KFM1**

Manufacturer: Valeo Comfort and Driving Assistance  
Address: 78, rue Auguste Perret  
F-94048 Créteil - CEDEX  
France

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:  
2014/53/EU The Radio Equipment Directive

Presumption of conformity is shown by compliance with the applicable requirements of the following documents:

- |                                                                       |                                                          |
|-----------------------------------------------------------------------|----------------------------------------------------------|
| 1. EN 62368-1:2014 + AC:2015 + AC:2017 + A11:2017<br>EN 62479: 2010   | Protection of health and safety (art. 3.1. (a))          |
| 2. EN 301 489-1 V2.2.3<br>EN 301 489-3 V2.1.1<br>EN 301 489-17 V3.2.4 | Level of Electromagnetic Compatibility (art. 3.1. (b))   |
| 3. EN 300 330 V2.1.1<br>EN 300 440 V2.1.1<br>EN 300 328 V2.2.2        | Efficient use of the Radio Frequency Spectrum (art. 3.2) |

Signed for and on behalf of: Valeo Comfort and Driving Assistance  
Place of issue: Créteil  
Date of issue: 10/02/2021  
Name: Jean-Claude GOURMY  
Position: Connected Car Business Group R&D Director  
Signature:

Valeo Comfort and Driving Assistance - 78, rue Auguste Perret - 94048 Créteil Cedex - France  
Tel: +33 (0)1 49 00 80 00 Fax: +33 (0)1 49 00 80 01  
S.A.S. au capital de 952 500 000 euros - 557 251 567 RCS Créteil  
www.valeo.com

## RED Declaration of Conformity - Telematics unit type 2148

Hereby, the Manufacturer Vodafone Automotive SpA declares that the radio equipment type 2148 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

Automotive.vodafone.com section "Download".

The device has the following RF parameters:

GSM/GPRS/EDGE: Dual band 900/1800MHz

LTE: Quad band 800 (Bd 20) / 900 (Bd 8) / 1800 (Bd 3) / 2100 MHz (Bd 1)

Class 4 (+32.5dBm  $\pm$ 2dB) for GSM900

Class 1 (+30dBm  $\pm$ 2dB) for GSM1800

Class E2 (+26.5dBm  $\pm$  3dB) for GSM 900 8-PSK

Class E2 (+26dBm +3 / -4dB) for GSM 1800 8-PSK

Class 3 (+23dBm  $\pm$ 2dB) for LTE 800, LTE FDD Bd20

Class 3 (+23dBm  $\pm$ 2dB) for LTE 900, LTE FDD Bd8

Class 3 (+23dBm  $\pm$ 2dB) for LTE 1800, LTE FDD Bd3

Class 3 (+23dBm  $\pm$ 2dB) for LTE 2100, LTE FDD Bd1

GPS: 1575.42 MHz (receiver only); 72-channel u-blox M8 engine; GPS L1C/A, SBAS L1C/A, QZSS L1C/A, QZSS L1 SAIF, GLONASS L10F, BeiDou B1I, Galileo E1B/C

RF: 433.92MHz (receiver only)

Remote 2781 accessory transmitter:

433.92MHz typical frequency/ -30dBm typical output power

The device bears the following marks:



## Conformity Information Compliance



Safety information: the device is designed and installed to ensure that the distance from vehicle occupants is greater than 0.2 m in order to avoid exposure to electromagnetic fields.

Manufacturer address:

Vodafone Automotive SpA, via Astico 41, 21100, Varese, Italy

### **Safety notice installation/maintenance and coin/button cell batteries (EN62368-1)**

It is essential that the installation, maintenance and servicing of the equipment are performed in a workmanlike manner by skilled and/or authorised technical personnel.

The remote control that comes with this system contains coin/button cell batteries. These must be kept away from children! If for some reason the battery compartment does not close securely, stop using the device and keep it out of reach of children.

Do not open, deform or make improper use of batteries, as this could result in the leakage of hazardous chemical substances. If you suspect ingestion or insertion in ear or nose, please immediately consult a doctor as batteries can cause serious internal chemical burn in just a couple of hours and also lead to death.

Replacing the batteries with a wrong type or mixing different battery types (e.g. used batteries with new batteries, lithium batteries with carbon or alkaline batteries) may cause explosion.

Do not short-circuit positive and negative terminals, do not attempt to recharge primary batteries, do not throw batteries into fire.

Dispose of used batteries in conformity with the local waste recycling regulations, never dispose of them with house waste.



Graphic symbol is shown on the remote control device.

### **Functionality of the system**

The Stolen Vehicle Tracking device is a GSM/GPS-based tracking system which enables the vehicle to be located by a Security Operating Centre (SOC) and secured by the relevant authorities in the event of theft.

As soon as Stolen Vehicle Tracking device detects a theft alarm, the location of the vehicle in question is sent to the SOC.

In this case, we support the below option:

- Stolen Vehicle Tracking device with driver card

## Conformity Information Compliance

The Stolen Vehicle Tracking device equipment version depends on the vehicle insurance or statutory requirements of the individual countries.

### Scope of delivery and initial activation

The Stolen Vehicle Tracking device is activated with the assistance of the vehicle owner.

Following activation, you will be given important details, such as the telephone number of your local control centre and of your service provider.

### Functions

The vehicle will only be located in the event of theft. In this event, a text message is sent to the mobile phone number provided. For security reasons, the position of the vehicle is not communicated in the text message.

Contact the control centre if your vehicle is stolen. In addition, report the theft to the competent police authority.

The following alarms can be set:

- Unauthorized movement of the vehicle:  
The vehicle is moved with the ignition switched off. For vehicles with driver card/remote keypad: The vehicle is moved without a driver card/remote keypad.

- Sabotage: The Stolen Vehicle Tracking device has been illicitly tampered with.
- Break-in alarm: The alarm system was triggered and has been active for more than 15 seconds.

### NOTE:

- There is no guarantee that the theft of a vehicle will always be detected.
- The Stolen Vehicle Tracking device alarm can also be triggered when the vehicle battery is discharged.
- If the vehicle was stolen, the control centre can inhibit engine starting.

### Operating Stolen Vehicle Tracking unit with driver card

The Stolen Vehicle Tracking unit can be disabled automatically using an activated driver card.

### RED Declaration of conformity - Driver card type 2781

Hereby, Vodafone Automotive SpA declares that the radio equipment type 2781 is in compliance with Directive 2014/53/EU.

The full texts of the EU Declarations of Conformity are available at the following internet address:

<https://www.vodafone.com/business/iot/automotive>

The device bears the following marks:



## Conformity Information Compliance



The device has the following RF parameters:  
433,92MHz; -30dBm

Manufacturer: Vodafone Automotive SpA, via  
Astico 41, 21100 Varese, Italy. Tel. +39 0332  
825111

### Safety notice installation/maintenance and coin/button cell batteries (EN62368-1)

It is essential that the installation, maintenance  
and servicing of the equipment are performed  
in a workmanlike manner by skilled and/or  
authorised technical personnel.

The remote control that comes with this system  
contains coin/button cell batteries. These must  
be kept away from children! If for some reason  
the battery compartment does not close  
securely, stop using the device and keep it out  
of reach of children.

Do not open, deform or make improper use of  
batteries, as this could result in the leakage of  
hazardous chemical substances. If you suspect  
ingestion or insertion in ear or nose, please  
immediately consult a doctor as batteries can  
cause serious internal chemical burn in just a  
couple of hours and also lead to death.

Replacing the batteries with a wrong type or  
mixing different battery types (e.g. used  
batteries with new batteries, lithium batteries  
with carbon or alkaline batteries) may cause  
explosion.

Do not short-circuit positive and negative  
terminals, do not attempt to recharge primary  
batteries, do not throw batteries into fire.

Dispose of used batteries in conformity with the  
local waste recycling regulations, never dispose  
of them with house waste.



Graphic symbol is shown on the remote control  
device.

### Functionality of the system

The Stolen Vehicle Tracking device is a GSM/  
GPS-based tracking system which enables the  
vehicle to be located by a Security Operating  
Centre (SOC) and secured by the relevant  
authorities in the event of theft.

As soon as Stolen Vehicle Tracking device  
detects a theft alarm, the location of the vehicle  
in question is sent to the SOC.

In this case, we support the below option:

- Stolen Vehicle Tracking device with driver  
card

The Stolen Vehicle Tracking device equipment  
version depends on the vehicle insurance or  
statutory requirements of the individual  
countries.

### Scope of delivery and initial activation

The Stolen Vehicle Tracking device is activated  
with the assistance of the vehicle owner.

Following activation, you will be given important  
details, such as the telephone number of your  
local control centre and of your service provider.



# Conformity Information Compliance

## Functions

The vehicle will only be located in the event of theft. In this event, a text message is sent to the mobile phone number provided. For security reasons, the position of the vehicle is not communicated in the text message.

Contact the control centre if your vehicle is stolen. In addition, report the theft to the competent police authority.

The following alarms can be set:

- Unauthorized movement of the vehicle: The vehicle is moved with the ignition switched off. For vehicles with driver card/remote keypad: The vehicle is moved without a driver card/remote keypad.
- Sabotage: The Stolen Vehicle Tracking device has been illicitly tampered with.
- Break-in alarm: The alarm system was triggered and has been active for more than 15 seconds.



### NOTE:

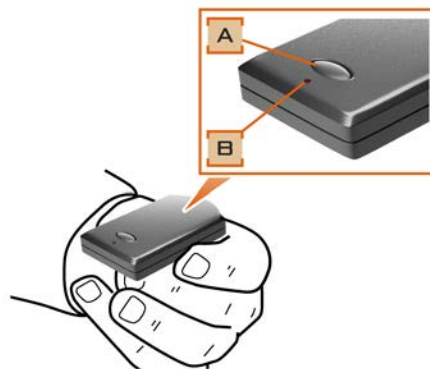
- There is no guarantee that the theft of a vehicle will always be detected.

- The Stolen Vehicle Tracking device alarm can also be triggered when the vehicle battery is discharged.
- If the vehicle was stolen, the control centre can inhibit engine starting.

## Operating Stolen Vehicle Tracking unit with driver card

The Stolen Vehicle Tracking unit can be disabled automatically using an activated driver card.

### Switching driver card on



Press button A on the driver card.

The indicator light B flashes quickly. When you release button A, the indicator light flashes at intervals of approx. 3 seconds.

If the indicator light on an activated driver card stops flashing either at 3 second intervals or when you press button A on the driver card, the battery is flat and must be replaced.

### Switching driver card off

Press button A on the driver card and keep it pressed for approx. 8 seconds until the indicator light B goes out.

Switch off the driver card if it is not used to a long time in order to extend the life of the battery.



**NOTE:** During transportation by aircraft, the Driver Card must be switched off in accordance with the guidelines that apply to aircraft.

### Enabling Stolen Vehicle Tracking unit with driver card

Switch off the ignition and take the driver card with you when leaving the vehicle.

If the driver card is far enough away from the vehicle, the unit will be enabled after approx. 70 seconds.

## Conformity Information Compliance

Theft of the vehicle can be detected.

### Disabling Stolen Vehicle Tracking unit with driver card

Place the driver card in the centre console in the vehicle or keep it on you.

The unit will be disabled if the activated driver card is in the vehicle or in the immediate vicinity of the vehicle.



#### NOTE:

- Do not put the driver card in the luggage compartment or engine compartment or near metal, e.g. coins.
- Vehicles are very often stolen using stolen driver's keys. Do not attach the Driver Card to the driver's key.

If you want to add, delete or replace a Driver Card: Contact your SOC.

### Emergency deactivation of the driver card

If the Stolen Vehicle Tracking cannot be deactivated using the Driver Card (e.g. if the Driver Card battery is flat or the Driver Card was lost), contact the control centre and get the control centre personnel to deactivate the system.

### Alarm



**NOTE:** It is essential that the installation, maintenance and servicing of the equipment are performed in a workmanlike manner by skilled and/or authorised technical personnel.

Hereby, Vodafone Automotive SpA declares that the radio equipment type 5480 is in compliance with Directive 2014/53/EU and with the UK Radio Equipment Regulations 2017.

The full texts of the EU and UK Declarations of Conformity are available at the following internet address:

<https://www.vodafone.com/business/iot/automotive>

The device bears the following marks:



## Conformity Information Compliance



The device has the following RF parameters:  
5,8GHz; -40dBm

Manufacturer: Vodafone Automotive SpA, via  
Astico 41, 21100 Varese, Italy. Tel. +39 0332  
825111

UK Importer: McLaren Automotive Limited,  
McLaren Technology Centre, Chertsey Road,  
Woking, Surrey, GU21 4YH, UK. Tel. +44 (0)1483  
261500

### Driver assistance radar

The following information relates to MRRe14FCR  
Radar-Sensors.

This Radio Equipment can be operated without  
restrictions in the EU.

This Radio Equipment is constructed so that it  
can be operated in all EU member states without  
infringing applicable requirements in regard to  
the requirements on the use of radio spectrum.

|                                                        |           |
|--------------------------------------------------------|-----------|
| Frequency band                                         | 76-77 GHz |
| Nominal radiated<br>power: e.i.r.p. (peak<br>detector) | 29,92 dBm |
| Nominal radiated<br>power: e.i.r.p. (RMS<br>detector)  | 18 dBm    |

### EU Declaration of Conformity under RE-D (2014/53/EU)

Hereby, Robert Bosch GmbH declares that the  
radio equipment type MRRe14FCR is in  
compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity  
is available at the following internet address:  
<http://eu-doc.bosch.com>

Moldova



Ukraine



## Conformity Information Compliance

Serbia



### HomeLink

All regions/markets

Model: UAHL5B

Europe



Hereby, Gentex Corporation declares that HomeLink® Model UAHL5D is in compliance with Radio Equipment Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address:

<http://www.homelink.com/regulatory>

Frequency Bands in which the radio equipment operates:

- 433.05MHz - 434.79MHz 0.251 mW E.R.P.
- 868.00MHz - 868.60MHz 0.091 mW E.R.P.
- 868.70MHz - 869.20MHz 0.100 mW E.R.P.

#### Certificate Holder's Address:

Gentex Corporation  
600 North Centennial Street  
Zeeland MI 49464  
USA

# Conformity Information Compliance

Serbia



Ukraine



## Telecommunication Control Unit (TCU)

EU

Model 103360001

Hereby, ACTIA Nordic AB declares that the radio equipment type 103360001 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:  
[www.actia.se/doc](http://www.actia.se/doc)

Maximum transmitted power:

| Band          | Frequency (MHz) | Max. tx power (dBm) |
|---------------|-----------------|---------------------|
| Cellular      |                 |                     |
| GSM 900       | 880-915         | +33                 |
| GSM 1800      | 1710-1785       | +30                 |
| Bd I (2100)   | 1920-1980       | +24                 |
| Bd III (1800) | 1710-1785       | +24                 |
| Bd VIII (900) | 880-915         | +24                 |
| Bd 1 (2100)   | 1920-1980       | +23                 |
| Bd 3 (1800)   | 1710-1785       | +23                 |

| Band           | Frequency (MHz) | Max. tx power (dBm) |
|----------------|-----------------|---------------------|
| Bd 7 (2600)    | 2500-2570       | +23                 |
| Bd 8 (900)     | 880-915         | +23                 |
| Bd 20 (800)    | 832-862         | +23                 |
| Bd 28 (700)    | 703-748         | +23                 |
| WLAN/Bluetooth |                 |                     |
| 2.4 GHz        | 2400-2500       | +12                 |
| 5 GHz          | 5100-5900       | +12                 |

# Conformity Information Compliance

## Access Start Control Unit (ASCU)

Hereby, Valeo Comfort and Driving Assistance declares that the radio equipment type AS1A is in compliance with the Statutory Instruments 2017 No. 1206 (The Radio Equipment Regulations 2017).

The full text of the UK Declaration of Conformity is available at the following internet address:

<https://valeo-clientportal.com>

Product:

Access Start Control Unit (ASCU)

Model:

AS1A



Manufacturer:

Valeo Comfort and Driving Assistance

76 Rue Auguste Perret

F-94046 Creteil, France



Comfort and Driving Assistance Systems

**Declaration of Conformity**  
in accordance with the Radio Equipment Directive 2014/53/EU (RED)

Objet of the declaration:  
Radio equipment: Access Start Control Unit (ASCU)  
Model/type: **AS1A**

Manufacturer: Valeo Comfort and Driving Assistance  
Address: 76, rue Auguste Perret  
F-94046 Creteil - CEDEX  
France

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:  
2014/53/EU The Radio Equipment Directive

Presumption of conformity is shown by compliance with the applicable requirements of the following documents:

1. EN 62368-1:2014 + AC:2015 + AC:2017 + A11:2017 Protection of health and safety (art. 3.1. (a))  
EN 62479:2010  
EN 62311:2020  
EN 50364:2018  
EN 50665:2017

2. EN 301 488-1 V2.2.3 Level of Electromagnetic Compatibility (art. 3.1. (b))  
EN 301 488-3 V2.1.1

3. EN 300 330 V2.1.1 Efficient use of the Radio Frequency Spectrum (art. 3.2)

Signed for and on behalf of: Valeo Comfort and Driving Assistance  
Place of issue: Creteil  
Date of issue: 10/02/2021  
Name: Jean-Claude GOMMY  
Position: Connected Car Business Group R&D Director  
Signature:

Valeo Comfort and Driving Assistance, 76 Rue Auguste Perret, 94046 Creteil, France  
Tel: 01 83 00 40 00 - Fax: 01 83 00 40 01  
S.A.S. au capital 9 980 000 000 euros - 937 001 807 RCS Creteil  
www.valeo.com







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