

Vehicle Owner's Manual

Access and Start

(draft excerpt)

Covered Products: Key Fob model KFML1

ASCU model AS1A

Smart Connectivity Hub (VRR/BRT) model BLXH1A

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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.

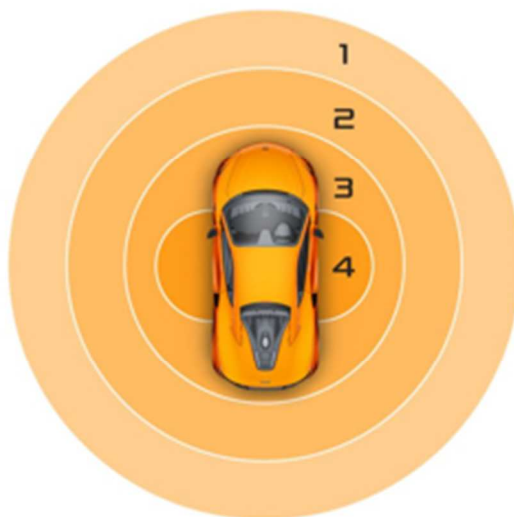
The keyless entry feature requires the key fob to be within 1.2 m (3 ft 11 in) of a door.

Provided that the engine is not running, the vehicle can be locked irrespective of the electrical status, see [Vehicle electrical status, page 2.02](#).

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 4.13](#).



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 1.05](#).
2. 10 m (32 ft 10 in) - Welcome event zone.
As you approach the vehicle using the keyless entry feature, the dipped beam headlamps and tail lamps will illuminate.
3. 5 m (16 ft 5 in) - Keyless lockzone.

As you walk away from the vehicle using the keyless exit feature, it will automatically lock and arm the alarm, see [Locking a door, page 1.05](#).

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 and unlatch, and the anti-theft alarm system will be deactivated. 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
- The HV charging port cover

Before You Drive

Opening and Closing



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 4.13](#).



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 Both doors is selected, a single press of the button unlocks both doors.
	If Driver's door 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 Both doors is selected, a double press of the button unlocks both doors and unlatches the driver's door.
	If Driver's door is selected, a double press of the button will unlock and unlatch the driver's door only.

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 6.30](#).

Before You Drive

Opening and Closing

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.

i NOTE: Because the door opens outwards and then upwards, ensure sufficient side and overhead clearance before opening a door, see [Vehicle dimensions, page 7.07](#).

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.

i 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.

i 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.

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 6.30](#).

Before You Drive

Opening and Closing

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.

i 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.

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

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.

Before You Drive

Opening and Closing

- 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.

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.

Before You Drive

Opening and Closing

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 4.13](#).

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.

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.

Before You Drive

Opening and Closing

- 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 6.31](#).

Luggage compartment

- !** **WARNING: Do not exceed luggage compartment maximum load. See [Vehicle weights, page 7.08](#).**
- 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.**

Opening



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

Before You Drive

Opening and Closing



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.

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 6.13.](#)

Before You Drive

Opening and Closing

Automatic locking

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

 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 4.13](#).

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

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 4.09](#).

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 2.07.](#)

Driving Controls

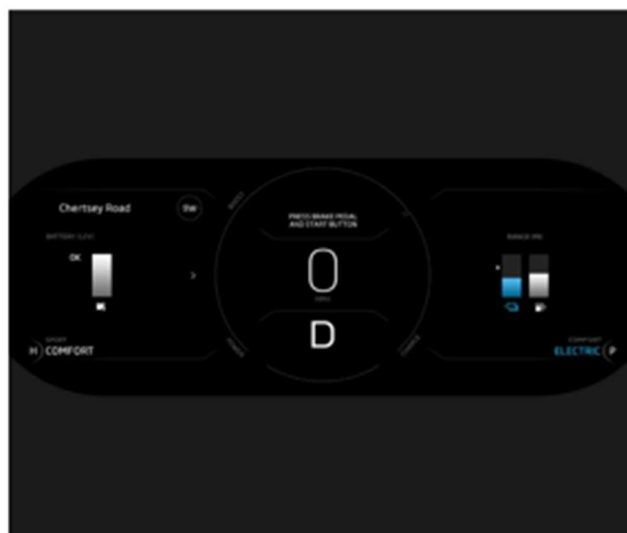
Starting and Driving

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 2.30
	Seat belts, page 1.23
	Rear fog lamp, page 1.37
	Supplementary restraint system (SRS), page 1.25

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 3.17](#).

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 .?](#).

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 2.16](#) and [Manual/automatic mode, page 2.18](#). If manual mode is active, gear changes are made using the gearshift paddles, see [Gearshift paddles, page 2.19](#).

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 2.06](#).

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 6.15 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 6.14 and How to recover the vehicle with a discharged 12V or HV battery, page 6.15 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

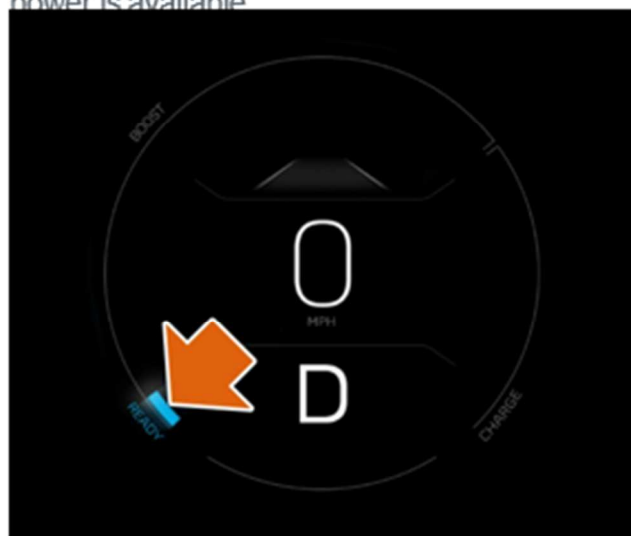
Starting and Driving

- 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.

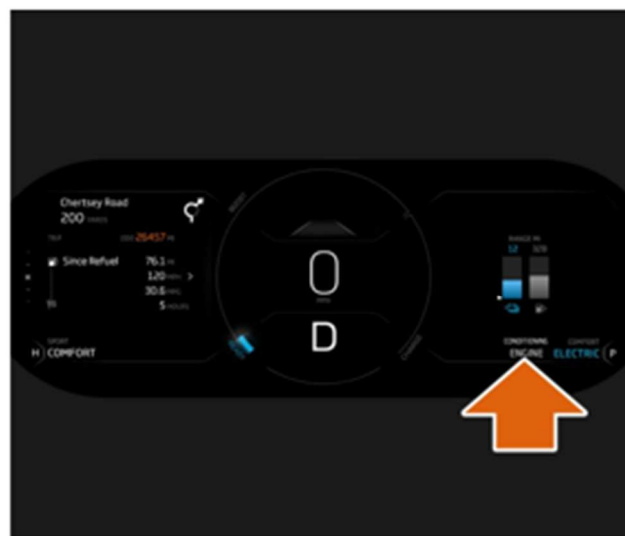
Press the brake pedal and push the START/STOP button. The READY indicator on the Driver Display shows that electric power is available.



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

- To purge fuel vapour on startup if the vehicle has not been operated for more than 48 hours.
- 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 purge fuel vapour or 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

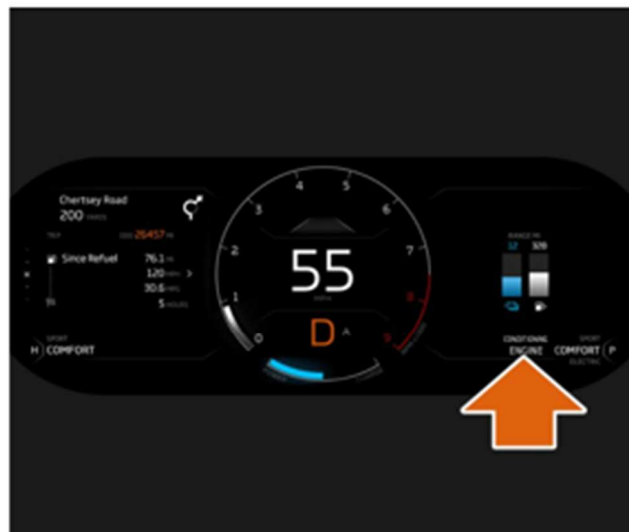
- Press the START/STOP button without pressing the brake pedal.
 - Select the desired powertrain mode using the powertrain control. See [Powertrain control, page 2.22](#).
 - Press the brake pedal and push the START/ STOP button.
- i** NOTE: The engine will start and warm the catalysts. During this period:
- Drive is provided by the eMotor only. The engine does not provide power or respond to throttle input.
 - The transmission remains in automatic.

Driving Controls

Starting and Driving

- 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

- Depress the brake pedal.
- Select neutral.



- Press the **START/STOP** button. The engine stops, the vehicle enters Awake mode, see [Vehicle electrical status, page 2.02](#). 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

Driving away

⚠ WARNING: Never turn the engine 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.

- i** NOTE: Do not drive at high engine speeds until the engine has reached normal operating temperature.
- i** 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 4.13](#).
- i** NOTE: During extensive parking manoeuvres the steering assistance might feel slightly stiffer. This is normal and designed to protect the steering system from overheating.

Driving Controls

Starting and Driving

i 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 2.19 and Gear positions, page 2.16.
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.

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:

- 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.

Limhome mode

Limhome 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.

i 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.

Driving Controls

Starting and Driving

- 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 limp home 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.

 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.

Conformity Information Compliance

Smart Key Fob

European Union (EU)

Model: KFML1

Operating frequency: 2400 - 2483.5 MHz
Maximum output power: 7,5 dBm

Manufacturer:
Valeo Comfort and Driving Assistance
76, rue Auguste Perret
94046 Créteil - CEDEX - France
Simplified Declaration of Conformity with regard to the RE
Directive 2014/53/EU:

Hereby, Valeo Comfort and Driving Assistance declares that the radio equipment type KFML1 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://valeo-clientportal.com>



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.

Conformity Information Compliance

United States of America and Canada

FCC ID: N5F-KFML1
IC: 3248A-KFML1

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Part 15 of the FCC rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1) This device may not cause interference;
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution to users

Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information:

The radiated output power of the device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

Canada (français)

IC: 3248A-KFML1

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

Conformity Information Compliance

Smart Connectivity Hub (BRT/VRR)

European Union (EU)

Model: BLXH1A

Operating frequency: 2400 - 2483.5 MHz

Maximum output power: 8,0 dBm

Manufacturer:

Valeo Comfort and Driving Assistance

76, rue Auguste Perret

94046 Créteil - CEDEX - France

Simplified Declaration of Conformity with regard to the RE
Directive 2014/53/EU:

Hereby, Valeo Comfort and Driving Assistance declares
that the radio equipment type BLXH1A 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://valeo-clientportal.com>



Conformity Information

Compliance

United States of America and Canada (english)

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- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution to users

Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Colocation

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

Transmit Antenna

This radio transmitter 3248A-BLXH1 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

BLE Antenna P/N 16MA396CP (Manufacturer: Calearo)
Maximum gain: 6,5 dBi

Conformity Information

Compliance

Canada (français)

IC: 3248A-BLXH1

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

Antenne émettrice

Le présent émetteur radio 3248A-BLXH1 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci - dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

Antenne BLE Ref. 16MA396CP (Marque: Calearo)
Maximum gain: 6,5 dBi

Conformity Information Compliance

Access Start Control Unit

European Union (EU)

Model: AS1A

Operating frequency: 125 kHz, 13,56 MHz

Maximum field strength (@3 m): 49,50 dBμA/m, 17,10 dBμA/m

Manufacturer:

Valeo Comfort and Driving Assistance

76, rue Auguste Perret

94046 Créteil - CEDEX - France

Simplified Declaration of Conformity with regard to the RE
Directive 2014/53/EU:

Hereby, Valeo Comfort and Driving Assistance declares
that the radio equipment type AS1A 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://valeo-clientportal.com>



Conformity Information Compliance

United States of America and Canada (english)

FCC ID: N5F-AS1
IC: 3248A-AS1

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Part 15 of the FCC rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1) This device may not cause interference.
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution to users

Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Transmit Antenna

This radio transmitter 3248A-AS1 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

1. NFC Antenna P/N.: E165502 (Manufacturer: Valeo)
2. LF Antenna P/N.: E1136485 (Manufacturer: Valeo)

Conformity Information Compliance

Canada (français)

IC: 3248A-AS1

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

Antenne émettrice

Le présent émetteur radio 3248A-AS1 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci - dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

1. NFC Antenna Ref.: E165502 (Fabricant: Valeo)
2. LF Antenna Ref.: E1136485 (Fabricant: Valeo)

Conformity Information Compliance