

NEXT GENERATION OUTLANDER

PHEV

QUICK GUIDE



**MITSUBISHI
MOTORS**

A few tips to get you started!

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This quick guide has been prepared to help you enjoy safe and comfortable driving.

This quick guide is a short version of the owner's manual. For details, please refer to the owner's manual.

This quick guide covers a range of specifications and manufacturer's options, so some of the descriptions may not apply to your Next Generation Outlander Plug-in Hybrid Electric Vehicle.

Congratulations on purchasing your new Next Generation Outlander Plug-In Hybrid Electric Vehicle! Here's a list of a few important things you need to know:

1. When you get home, make sure you plug-in your Next Generation Outlander and set to charge overnight to take advantage of off-peak electricity rates after 11pm. You can check the remaining time until fully charged on the instrument centre display panel.
2. Your vehicle takes 91 unleaded fuel, available at any service station.
3. Your first service is at 1,500km or within one month. But don't worry if you forget, we'll be in contact to remind you!
4. Only have your Next Generation Outlander serviced by a recognised Mitsubishi Motors dealer, for a list of dealers visit mmnz.co.nz/find-a-dealer/.

Fuel saving tips

We've also put together some top fuel saving tips to help you get the most out your Next Generation Outlander Plug-In Hybrid Electric Vehicle.

1. **Keep the Battery Charged:** Keeping the battery charged ensures that you will use as much electricity and as little petrol as possible, saving you fuel and money. It will also help to maximize your Electric Vehicle driving range.
2. **Off-Peak Charging:** To take maximum advantage of owning the Next Generation Outlander Plug-In Hybrid be sure to set your charge times to when electric power rates are at their lowest. Check with your electricity provider for your 'Off-Peak' details.
3. **Warm up or cool the car down before driving while the car is still connected to the house power supply.** This will reduce the power drain on the battery when you start driving and maximise your Electric Vehicle range.
4. **Use the seat heaters to warm you up as they use less battery power than the car heater.**
5. **Turn the air conditioning off when not needed.**
6. **Use Eco Mode:** This mode maximizes the vehicle's fuel economy and can be activated through the Drive Mode Switch. The eco mode limits other aspects of the vehicle's performance, such as acceleration rate and air-conditioning to save fuel.
7. **Accelerate keeping the 'Energy Usage Meter' needle in the EV range and the petrol engine likely will not start.**
8. **Avoid Hard Braking:** Anticipate stopping and brake gently or moderately. This allows the vehicle's regenerative braking system to recover energy from the vehicle's forward motion and store it as electricity. Hard braking causes the vehicle to use its conventional friction brakes, which do not recover energy. When using regenerative braking, the 'negative' paddle increases the amount of regenerative braking and therefore increases the braking force on the vehicle.
9. **Display Screens:** Familiarise yourself with the car's display so you can monitor how much energy is being used.

Plug-in Hybrid EV System

What is the Plug-in Hybrid EV System?

The Outlander PHEV system consists of a generator, two high-output motors installed at the front and rear of the vehicle, a petrol engine at the front and a high-capacity drive battery installed under the floor. These components work together to enable smooth, comfortable driving. The PHEV system automatically switches between EV and hybrid modes depending on the driving conditions and remaining battery power.

- In the EV Drive mode, the vehicle is driven only by the electric motors, just like an electric vehicle, over a certain distance, using the electricity stored in the drive battery. Once the drive battery charge is low or when powerful acceleration is needed, the vehicle operates in the Series Hybrid mode.

When high-speed driving is needed, the vehicle is driven by the engine in the Parallel Hybrid mode.

- The high-performance motors greatly reduce noise and vibration while driving and provide powerful acceleration.
- The regenerative brake system automatically starts to charge the drive battery when the accelerator pedal is released.
- The battery can be charged via the AC230-240 V charge port. If your vehicle has an optional quick charge port, the battery can be charged at a CHAdeMO* charging station.

*CHAdeMO is a quick charging standard for EVs that is promoted by Japan for adoption as an international standard.

EV Drive MODE

The vehicle is driven only by the motors using the electricity stored in the drive battery.

Series Hybrid Mode

The vehicle is driven by the motors only using the electricity generated by the engine. This mode is used when the drive battery level is low, at quick acceleration, or when power is required like climbing uphill.

Parallel Hybrid Mode

The vehicle is driven by the power of the engine, assisted by motors. This mode is used during high-speed driving with better engine efficiency.



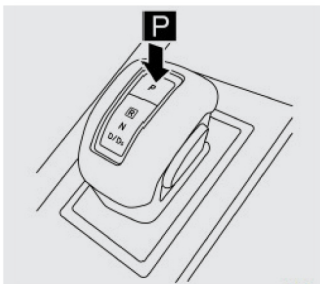
EV drive mode

Regenerative Brake System

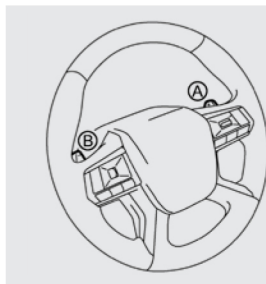
Motion energy is converted into electric energy using the motor as a power generator.

Then a braking force generates and converted electric energy will be charged to the drive battery.

Selector lever



Paddle



To decrease the regenerative braking force, pull the "+" (A) selector

To increase the regenerative braking force, pull the "-" (B) selector.

The intensity of regenerative brake can be selected from among two levels using the selector lever.

The intensity can be selected from among six levels using the paddles.

If a large regenerative braking force is applied by using the selector lever or the regenerative braking level selector (paddle), the brake lamps will be automatically illuminated.

Roles of Motors and Engine in Various Modes

Mode	Motors	Engine
EV Drive mode	Drive the vehicle	OFF
Series Hybrid mode	Drive the vehicle	Generate electricity
Parallel Hybrid mode	Drive the vehicle	Drive the front wheels + Generate electricity

EV System/Selector Lever Operation

Starting the Plug-in Hybrid EV System

- Step 1 Ensure that the charge connector is disconnected from the vehicle.
- Step 2 Ensure that the parking brake is applied.
- Step 3 Depress the brake pedal completely.
- Step 4 Press the power switch completely.
 - ➔ Do not release the brake pedal until the system has successfully started.
- Step 5 Ensure that the **READY** indicator is illuminated.
 - ➔ Do not operate the selector lever until the **READY** indicator is illuminated. If the selector lever is operated while the **READY** indicator is still blinking, the system will not start.



Is Something Really Wrong?

- If the plug-in hybrid EV system cannot be started, return the operation mode to OFF. Wait for more than 10 seconds and then repeat the startup steps 1 to 5.
- If position **D** or **B** cannot be selected (display not changing to **D** or **B**) using the selector lever when the **READY** indicator is illuminated, the brake pedal may not be depressed completely. Depress the brake pedal completely and then repeat the start-off steps 1 to 4 before selecting **D** or **B**.

Important Points!

- To enter the **READY** mode, press the power switch while holding down the brake pedal.

To stop the PHEV system

1. Stop your vehicle completely.
2. Apply the parking brake firmly while depressing the brake pedal.
3. After pressing the electrical parking switch, press the power switch to stop Plug-in Hybrid EV System.

Operating the Selector Lever

The selector lever always returns to its home position (A) when it is released. To move the selector lever:

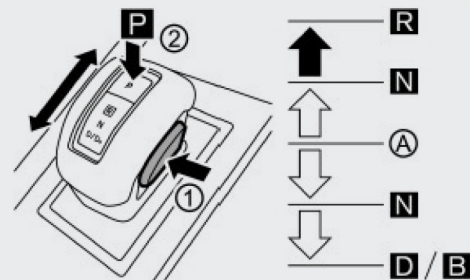
➔ Push the button to shift.

⇨ Shift without pushing the button.

Push the electrical parking switch to shift to the **P** (Park) position.

After starting the Plug-in Hybrid EV system, fully depress the brake pedal, move the selector lever from home position to any of the desired shift positions.

To select **N** (Neutral) position, hold the selector lever at **N** position until **N** is displayed on the multi-information display.



The **B** (Regenerative Brake) position can only be selected while the shift position is in **D** (Drive) position. When the selector lever is moved to the **B** position, the regenerative brake force will become stronger. To return to the **D** position, use the selector lever to select the **D** position.



Around the Selector Lever



01 Drive Mode Selector

Drive mode selector is able to select characteristics of an integrated vehicle dynamics control system that helps to enhance driving performance, and vehicle stability over a wide range of the driving style of driving condition through integrated management of the Plug-in Hybrid EV system, the EPS, the 4WD, AYC (Active Yaw Control), the ABS and the ASC.

To change the mode, turn the Drive mode selector right or left. The mode list will appear in the multi-information display and you can select a mode.

Drive Mode	Function
NORMAL	This mode offers well-balanced driving performance with efficiency for SUV in various road conditions.
ECO	This mode supports ecological and economical driving by optimized powertrain characteristics.
TARMAc	This mode offers the pleasure of driving with agile dynamics on dry paved road such as responsive and powerful acceleration, responsive and linear steering feel, stability and traceability on cornering.
POWER	This mode offers the most powerful and responsive acceleration feeling thanks to electric motor driving.
GRAVEL	This mode is for driving on rough surfaces such as flat unpaved roads or wet paved roads and improves straightability on rough road and powerful launching acceleration.
SNOW	This mode is for driving on slippery road surfaces, such as snow-covered roads and offers good initial steering response and high cornering stability on a slippery road.
MUD	This mode is for driving on slippery road where maximum traction is required, such as muddy roads and deep snow roads and improves traction performance.

The drive mode will automatically be turned to the NORMAL mode when the power switch is turned off and on again.

02 Selector Lever

R (Reverse) :	The vehicle moves in reverse.
N (Neutral) :	No drive is transmitted to the wheels, which are not locked either.
D (Drive) :	The vehicle moves forward.
B (Regenerative brake) :	The intensity of regenerative brake increases.

- Select position you chose is illuminated on the panel behind the selector lever and in the meter.
- Only when the select position is "D" position, you can shift to the "B (Regenerative brake)" position.
- When "B" position is selected and large regenerative braking force is applied, the brake lamps will automatically illuminate.

03 Electrical Parking Switch (On selector lever)

Press the switch to lock the wheels when you are parking your vehicle.

04 Electric Parking Brake Switch

Pull up the switch while depressing the brake pedal to apply the parking brake. The indicator lamp on the switch will come on.

Press the switch while depressing the brake pedal to release the parking brake.

05 Brake Auto Hold Switch

The Brake auto hold function maintains the braking force without the driver having to depress the brake pedal when the vehicle is stopped at a traffic light or intersection. As soon as the driver depresses the accelerator pedal again, the Brake auto hold function is deactivated and the braking force is released. Pressing the switch while all of the following conditions are met, the brake auto hold system will change to the standby state and the indicator lamp on the switch comes on.

- The operation mode of the power switch in ON.
- The driver's seat belt is fastened.
- The electric park brake is released
- The vehicle is not in the P (Park) position
- The vehicle is on a steep hill

06 Heated Seats

The heated seats can be operated with the operation mode of the power switch is ON. There are 4 settings for the heated seats (High, Medium, Low and Off).

HIGH	Push switch once
MEDIUM	Push switch twice
LOW	Push switch three times
OFF	Push switch until indicator lamp turns off

Around the Selector Lever Continued

Innovative Pedal Operation Mode

The Innovative Pedal Operation Mode enables the driver to accelerate or decelerate the vehicle, with optimally controlled regenerative brake and service brake, by operating only the accelerator pedal. This helps assist the driver to save the steps of changing their foot on between the accelerator pedal and the brake pedal.

To activate the Innovative Pedal Operation Mode, place the power switch in the READY to drive or ON position and push the Innovative Pedal Operation Mode switch located on the centre console.

When Driving the Vehicle

- Depressing or returning the accelerator pedal will change the degree of acceleration and deceleration accordingly.
- Returning the accelerator pedal generates more deceleration than normal. (The maximum deceleration changes according to the vehicle speed.)
- "Creeping" occurs in the same way as petrol engine vehicles.
- When the vehicle is stopped, depress the brake pedal.
- The vehicle's stop lights illuminate when the deceleration level reaches an ordinary braking operation.



EV Mode Selector Switch




To switch the EV mode, press the EV mode selector switch. If you press the EV mode selector switch with operation mode of the power switch in ON, you can change the drive battery mode in the order of NORMAL, EV, SAVE, CHARGE.

NORMAL MODE	Select this mode for normal driving. Both the electric motor and engine will be used in a well-balanced manner.
EV PRIORITY MODE	This mode helps drive the vehicle without starting the engine as much as possible.
SAVE MODE	This mode will start the engine in order to preserve the remaining power of the drive battery and the vehicle will operate in the series hybrid mode or the parallel hybrid mode depending on the remaining power in the drive battery.
CHARGE MODE	This mode will start the engine to charge the drive battery to nearly full.



Charging

The drive battery can be charged from a charging source using one of the methods shown below, using the dedicated charge port on the vehicle.

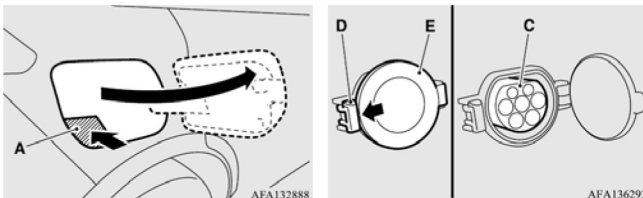
Charging method	Charge port	Charge connector	Charging source	Charging time with fully discharged drive battery
Normal (AC 230V / 8A)	Normal charge port		230V household outlet	Approx 11.5 hours
Normal Charging (AC 230-240 V) When using a home or public charging device (EVSE)	Normal charge port		Home or public charging device	230-240 V/15A: Approximately 6.5 hours
Quick Charging (Charging method with quick charger)	Quick charge port		Public charging stations where available	Approximately 38 minutes for 80% charge

* 1: Use this time as a guide because the rated AC voltage and the rated current value may differ from country to country. Also, charging time will vary depending on the condition of the drive battery, air temperature, electric power consumption of electrical devices during charging and condition of the power source. (such as specifications of the quick charger)

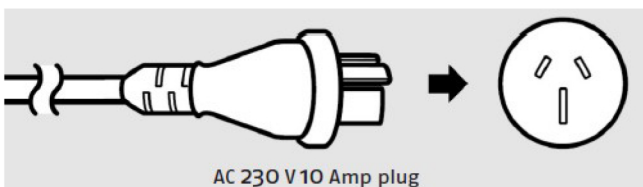
- Do not touch the metallic terminals on the normal charge port or connector, or those on the quick charge port or connector. Otherwise, electric shock and/or component failure may result.

Normal Charging (House Hold Outlet)

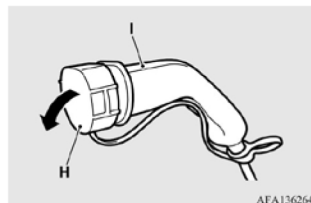
1. Firmly apply the Electric parking brake, press the electric parking switch to shift the "P" (PARK) position and put the operation mode of the power switch in OFF.
2. Unlock the driver's door to unlock the charging lid.
3. Push the rear portion (A) of the charging lid until it clicks, and open the charging lid.



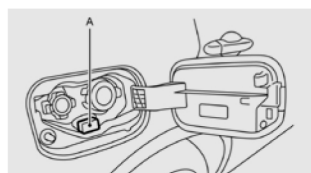
4. Press the tab (D) to open the inner lid (E).
5. Insert the plug on the normal charging cable into the outlet.



6. Remove the cap (H) on the normal charge connector (I) and make sure that there is no foreign matter such as dust at the end of the normal charge connector and the normal charge port (C).
7. Connect the normal charge connector (I) to the normal charge port (C). The normal charge connector will automatically lock just before the charging begins.

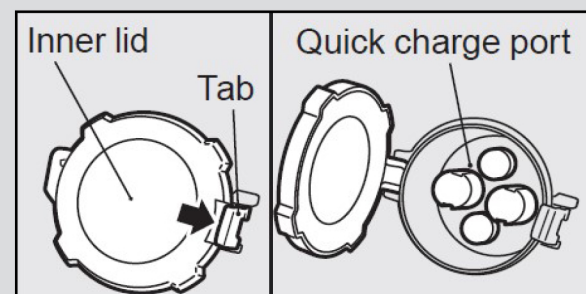


8. Make sure the charging indicator on the instrument cluster is flashing and the charging light is blinking green located underneath the charging port. (A)



Quick Charging

1. Carry out steps 1 to 3 in "Normal Charging (House Hold Outlet)". In Step 3, open the quick charge port lid instead of the normal charge port lid.



2. Insert the quick charge connector into the quick charge port to start charging. Follow the instructions of the quick charger manual for correct connection and disconnection of the charger. When charging is started, the charging indicator on the instrument cluster is flashing and the charging light is blinking green.
3. Charging is complete when the charging indicator turns off and the charging light is illuminated green.

Charging Light's Colour	Reason
White	The charging lid is open
Green (illuminate)	The connector is connected
Green (blinking)	The system is in charging
Purple (blinking)	Vehicle to Home charging is working
Blue (illuminate)	Charging timer is activating
Red (blinking)	The connector is not correctly connected

PHEV Info Screens

Energy Flow (in enhanced display mode)

1) EV Cruising Range

Displays the estimated distance that can be covered by the remaining battery charge.

2) Engine

When fuel is being utilized for driving, the engine portion becomes orange.

3) <

Returns to the previous screen.

4) Front wheel drive state

5) Flow of Energy

The direction of flow and colour is displayed between the engine, battery and wheels.

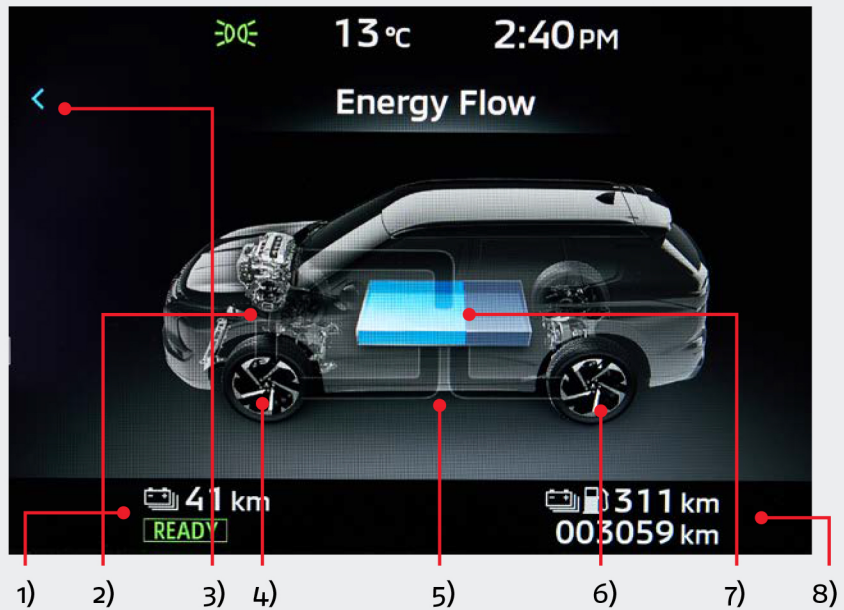
6) Rear Wheel Drive State

7) Battery

Shows the remaining battery charge.

8) Total Cruising Range

Shows the estimated distance that can be covered together by the remaining battery charge and the remaining fuel.

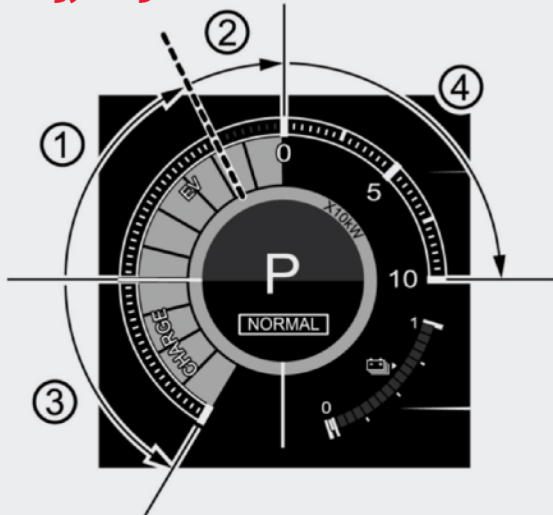


Changing the Meter Screen View

The meter screen view can be changed to expand the multi-information display area.

1. Push the control switch (shortcut menu) on the left side of the steering wheel
2. Select "Change Meter View" by rotating the dial and push scroll dial to confirm

Energy Usage Indicator



The Next Generation Outlander PHEV has a different Instrument display to other vehicles and features an energy usage Indication unique to Mitsubishi PHEV.

When the vehicle is ready for running, the needle of the energy usage indicator moves to the horizontal position.

1. The EV zone shows the output during the EV drive. zone 1 shows the state that the EV drive can be maintained.
2. Zone 2 show the output during the EV drive with the high possibility of the engine starting.
3. Indicates the charging power generated by the regenerative brake. The more the needle moves, the more electric energy is charged.
4. Indicates the engine output.



Cockpit Displays and Buttons

SDA PHEV Info Screens

The SDA features additional PHEV information located in the "EV Info" screen. Below are a few examples of these with a step by step guide to help you use the features.

Set Charging Timer

Charging timer can be set through the SDA (For example, customers can charge during late night-time when electricity rates are low).



1. Touch [Info] on the Launch Bar.
2. Touch [EV Info].
3. Touch [Charging Timer]. Charging Timer screen is displayed.

Available Actions:

- Timer Work Only at Home – When this item turns on, charging timer works only at home.
- Timer Settings – Touch to turn on/off the timer. The indicator light will turn on when the timer setting is turned on.
- Pen Icon – Touch to display the charger settings screen. Set preferred time and day of the week for vehicle charging.

Immediate Charge

Use the immediate charge mode any time you need to start a charge immediately when a charging timer is on

1. Place the power switch in the OFF position
2. Push the Charge Now switch located on the instrument panel to the right of the steering wheel
3. Connect the normal charging mode. Then make sure that the charging port courtesy lamp is blinking.

Power Outlet

On selected models the Next Generation Outlander PHEV comes with 2 220-240V AC sockets (1500W).



(a)

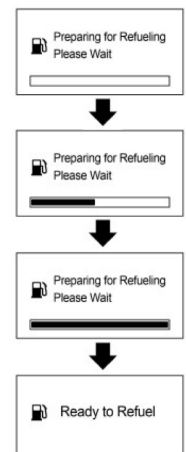
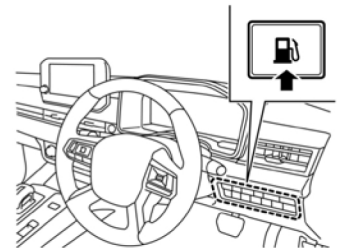
1. Press the AC power outlet switch. The indicator lamp (a) will come on and power supply system is ready for use.



2. Open the lid
3. Insert the plug in the power outlet firmly. Make sure the plug is connected correctly
4. Disconnect the plug and close the lid after using the electrical appliance.

Fueling

1. Before refueling, put the operation mode of the power switch in OFF to stop the Plug-in Hybrid EV system.
2. The fuel filler door is located on the rear left side of your vehicle by pressing the fuel filler door opener switch located on the instrument panel.
3. The internal pressure of the fuel tank will automatically be released to prevent fuel overflowing from the fuel filler. Before opening the fuel cap, wait until "READY TO REFUEL" is displayed on the information screen in the multi-information display. If the internal pressure is high, it may take several tens of seconds.
4. Open the fuel filler pipe by turning the fuel cap anticlockwise and fill the fuel tank.



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01/2022

