■ BATTERY POWER SAVING FUNCTION

On-vehicle battery power saving function

- As the entry and start system periodically emits the request signals every approximately 0.25 seconds to form the detection areas, if the vehicle is left unmoved for a long period of time, the on-vehicle battery may run out. In order to prevent this, the following control has been set.

Table: On-vehicle battery power saving control

A	If the power has not been turned on for 5 days or more, the periodic emission of signals from each antenna outside the vehicle is stopped. However, as the lock/unlock switches are still activated, a door can be unlocked by pressing the lock/unlock switch of the door outside handle assembly for either of the driver's seat or the front passenger's seat, or the lock/unlock switch of the license plate light cord.
B	If the power has not been turned to IG ON for 14 days or more, the lock/unlock switches of the door outside handle assemblies for the front passenger's seat and the license plate light cord are deactivated. However, the door for the driver's seat can be unlocked by pressing the lock/unlock switch of the door outside handle assembly for the driver's seat.

- Conditions for recovery

– When any of the following condition is met, the lock/unlock switch of the door outside handle assembly for the front passenger's seat and the lock/unlock switch of the license plate light cord are activated. (B → A). By turning the power on while the power saving control is activated in each case of A and B, the power saving control is deactivated.

Table: conditions for recovery

- A door is locked/unlocked, using the wireless remote control.
- The door for the driver's seat is locked/unlocked by pressing the lock/unlock switch of the door outside handle assembly for the driver's seat.
- The door for the driver's seat is locked/unlocked by inserting a mechanical key into the key cylinder of the door for the driver's seat.
- The door is closed.

Key battery power saving function

If an key is left for a long period of time in a detection area outside the vehicle, as the key continues sending its ID code to the certification ECU (smart key computer assembly), the key battery may run up. In order to prevent this, the following control has been set.

Table: electrical key battery power saving control

If an key is left for approximately 10 minutes or more in a detection area outside the vehicle, periodical emission (formation of detection areas) of the request signals to the antennas outside the vehicle that detect the key is stopped.

- Conditions for recovery

– When any of the following condition is met, the control recovers from power saving mode to normal mode for the entry and start system.

Table: conditions for recovery

• A door is locked/unlocked, using the wireless remote control. • A door is locked/unlocked by pressing the lock/unlock switch of the door outside handle assembly for either of the driver's seat or the front passenger's seat, or the lock/unlock switch of the license plate light cord. • The door for the driver's seat is locked/unlocked by inserting a mechanical key into the key cylinder of the door for the driver's seat

Automatic power off operation

– In order to suppress the decrease of voltage for the on-vehicle battery, the power is automatically turned off when any of the following condition is met.

Table: conditions for automatic power off operation

The battery is left approximately 60 minutes while the shift lever is in the P position, no vehicle speed is detected, the engine is stopped and the power is in IG ON.
The battery is left approximately 20 minutes while the shift lever is in the P position, no vehicle speed is detected, the engine is stopped and the power is in ACC.

Battery Saving Function of Electrical Key Transmitter Sub-assembly

By stopping the stand-by status for the reception of radio wave to an key, it is possible to suppress the run out of the key battery.

Table: operation method to switch to electrical key power saving mode

While pressing the key's lock switch, press the unlock switch twice (the operation indicator light on the key blinks 4 times).

Operation to cancel key power saving mode

- By following the below step, the control recovers from power saving mode to normal mode for the entry and start system.

Table: cancelling the key power saving mode

Any of the switches on the electrical key is pressed.

Caution:

While power saving mode, the entry and start system is deactivated.