



KARMA REVERO OWNER'S MANUAL



OWNER'S MANUAL

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This Owner's Manual is to familiarize the owner of the vehicle of all normal operations and functions of the vehicle. The content of this manual is correct for this vehicle at the time of publishing. The content of the vehicle is subject to change.

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WELCOME TO THE KARMA FAMILY

On behalf of Karma Automotive, thank you for purchasing one of our vehicles.

Your Karma is designed to deliver a unique combination of advanced technology with timeless design.

We are committed to providing you with an ownership experience that is second to none, and we look forward to serving you in the years ahead.

USING THIS MANUAL

For your own safety, follow the instructions and warnings contained in this manual. Ignoring them could result in damage to the vehicle or personal injury to you or others. Vehicle damage caused by failing to follow instructions is not covered by the New Vehicle Limited Warranty.

Keep this manual in your vehicle as a reference for the safe and enjoyable use of your vehicle. Should you sell your car, leave this manual with it for the next owner.

If you are unable to find the information you need, it may be contained within one of the additional documents included in your Owner's literature pack:

- *Quick Reference Guide* a summarized version of this document allowing you to quickly familiarize yourself with the vehicle.
- Infotainment Online Emulator describes how to use the features of the touch-screen.
- *Warranty and Service* details of the vehicle warranty and servicing requirements for your vehicle.
- *Roadside Assistance* details the complimentary benefits and services provided to Karma vehicle owner.

SYMBOLS GLOSSARY

The following symbols used within this manual call your attention to specific types of information.

WARNING: Indicates either an instruction which must be followed precisely, or information that should be considered with great care in order to avoid the possibility of personal injury or injury to others.

CAUTION: Indicates either an instruction which must be followed precisely, or information that should be considered with great care in order to avoid the possibility of damage to your vehicle.

This symbol identifies instructions that should be observed in order to prevent unnecessary damage to the environment.

NOTES ABOUT THIS MANUAL

All specifications and descriptions are accurate at the time of printing.

Continuous improvement is a constant goal at Karma Automotive, therefore we reserve the right to make changes to this manual at any time, without notice and without obligation.

Note: This manual applies to all Karma models. As a result, you may find some explanations for equipment or options not installed on your vehicle.

Note: This manual describes product features and options that may not be available at the time of publication. It may also describe options not equipped to your vehicle.

Note: Some of the illustrations in this manual may differ slightly from your vehicle.

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ELECTRIC VEHICLE PRECAUTIONS

IMPORTANT

Your Karma is an electric vehicle with a range-extending gasoline engine.

WARNING: The Karma has both high-voltage Direct Current (DC) and Alternating Current (AC) systems as well as a 12-volt system. Both the DC and AC high voltage systems are very dangerous and can cause personal injury, severe burns, electric shock and even fatal injury unless appropriate precautions are taken.

WARNING: Always observe and obey the instructions on labels attached to components on the vehicle, they are for your safety.

WARNING: Do not touch, attempt to remove or replace any high voltage parts, wiring (identified by the orange outer sleeving) or connectors.

WARNING: If the vehicle is involved in an accident, do not touch any high voltage wiring, connectors or the components connected to the wiring.

WARNING: If a vehicle fire occurs, extinguish it with a Class D powder-type fire extinguisher.

MAINTENANCE AND REPAIRS TO YOUR VEHICLE

Karma Automotive recommends having maintenance and repairs for your Karma performed by an authorized Karma Service Provider.

To locate your nearest authorized Karma Service Provider, go to www.karmaautomotive.com or contact Karma Consumer Affairs.

BODY REPAIRS

If you're involved in a collision, you want your vehicle to be returned to its pre-accident condition when repaired. That's why it is important to make sure your vehicle is repaired with only genuine Karma Automotive parts.

Some repair shops and insurance companies may suggest using non-original equipment or salvaged parts to save money. However, these parts may not meet Karma's high standards for quality, fit and corrosion resistance. In addition, nonoriginal equipment and salvaged parts (and any damage or failures they may cause) are not covered by any Karma warranty.

The best way to ensure that your vehicle is repaired with genuine Karma Automotive parts is to take it to a Karma Service Provider. Each Service Provider works with selected collision repair centers that meet Karma's strict requirements for training, equipment, quality, and customer satisfaction. These repair centers use genuine Karma Automotive parts exclusively in the repair of Karma vehicles.

VEHICLE MODIFICATIONS

WARNING: The installation of nonapproved parts and accessories, or the carrying out of non-approved modifications, may be dangerous and could affect the safety of the vehicle and occupants, and also invalidate the terms and conditions of the vehicle warranty.

WARNING: Karma Automotive will not accept any liability for death, personal injury or damage to property which may occur as a direct result of nonapproved modifications or the installation of non-approved accessories.

If you have a disability which may require modification to the vehicle, please contact Karma Automotive before any modifications are made.

QUALITY CONTROL

You may have noticed a few miles/kms on the odometer when you took delivery of your Revero. Some of these miles were a result of the comprehensive process used to ensure the quality of your Revero.

This process includes extensive inspections during and after production. The final inspection takes place at the selling Retailer and includes a road test conducted by a trained Karma Automotive Technician.

CALIFORNIA PROPOSITION 65

WARNING: Certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain byproducts of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CALIFORNIA PERCHLORATE ADVISORY

WARNING: Certain components of this vehicle such as air bag modules, seat belt pre-tensioners and Lithium batteries may contain Perchlorate Material. Special handling may apply for service or vehicle end of life disposal. See http://www.dtsc.ca.gov/hazardouswaste/ perchlorate.

DATA RECORDING

SERVICE DATA RECORDING

Service data recorders in your vehicle are capable of collecting and storing diagnostic information about your vehicle. This potentially includes information about the performance or status of various systems and modules in the vehicle such as engine, throttle, steering or brakes. In order to properly diagnose and service your vehicle, Karma Automotive and its authorized service facilities may access vehicle diagnostic information through a direct connection to your vehicle.

EVENT DATA RECORDING

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such data (as an air bag deployment or hitting a road obstacle), will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less.

The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating.
- Whether or not the driver and passenger safety belts were buckled/fastened.
- How far (if at all) the driver was depressing the accelerator and/or brake pedal.
- · How fast the vehicle was traveling.

• Where the driver was positioning the steering wheel.

This data can help provide a better understanding of the circumstances in which crashes and injuries occur.

Note: EDR data is recorded by your vehicle only if a non-trivial crash situation occurs; no data is recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) is recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

IF YOU NEED ASSISTANCE

Both Karma Automotive and your Karma Retailer are dedicated to serving your automotive needs. Your complete satisfaction is our first priority. Should you have a problem or concern, please take the following steps to ensure the quickest possible response:

Step 1 - Discuss the situation with an appropriate member of your Retailer team such as the Service Manager or Customer Satisfaction Manager.

If necessary, escalate to the Retailer owner or General Manager for assistance. In most cases, a satisfactory solution can be reached at this step.

Step 2 - If your Retailer does not address your concern to your satisfaction, please contact the Karma Client Services Team:

clientservices@karmaautomotive.com (855) 56-KARMA (52762)

You may also contact us by mail at:

Karma Client Services 2975 Red Hill Ave. Suite 200 Costa Mesa, CA 92626

Whether calling or writing, please provide the following information:

- 17-digit Vehicle Identification Number (VIN) found on the vehicle registration paperwork and on the certification label located on the driver's door pillar.
- · Current vehicle odometer reading.
- Name of your selling and servicing Karma Retailers.
- Your day and evening contact telephone numbers.
- Your email address.

REPORTING SAFETY DEFECTS

UNITED STATES

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Karma Automotive.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your Retailer, or Karma Automotive.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to:

National Highway Traffic Safety Administration 1200 New Jersey Avenue SE. Washington, DC 20590.

You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

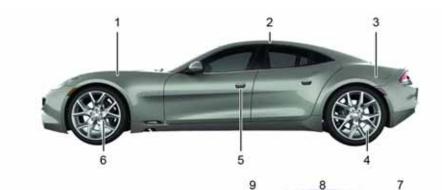
CANADA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada, in addition to notifying Karma Automotive.

To contact Transport Canada, call their toll-free number: 1-800-333-0510.

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EXTERIOR OVERVIEW



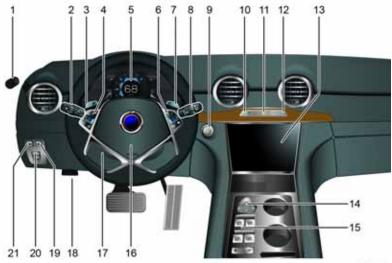




- 1. Hood. See "Hood" on page 105.
- 2. Solar roof. See "Cleaning and Vehicle Care" on page 114.
- 3. Charging port cover. See "Charging the Vehicle" on page 92.
- 4. Tire Pressure Monitoring System (TPMS). See "Tire Pressure Monitoring System (TPMS)" on page 136.
- 5. Exterior door release. See "Locking and Unlocking the Vehicle" on page 16.

- 6. Wheels and tires. See "Tire Care" on page 130.
- 7. Fuel filler cover. See "Fuel Filling" on page 98.
- 8. Trunk. See "Trunk" on page 21.
- 9. Exterior sound. See "Exterior Sound" on page 83.
- 10. Vehicle recovery eye. See "Vehicle Recovery" on page 124.

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- 1. Exterior mirror control. See "Exterior Mirrors" on page 54.
- 2. Exterior lights and turn signal. See "Exterior Lighting" on page 51.
- STEALTH, SPORT, SUSTAIN mode selection. See "Driving Modes" on page 76.
- 4. Audio and phone controls. See "Using the Touchscreen" on page 55.
- 5. Driver Information System (DIS). See "Driver Information System (DIS) USA Specification" on page 45.
- 6. Cruise control. See "Cruise Control" on page 82.
- 7. REGEN mode selection. See "REGEN mode" on page 77.
- Wipers and washers. See "Wipers and Washers" on page 50.
- 9. Start/Stop button. See "Starting the Vehicle" on page 73.
- 10. Master door locking. See "Master Lock and Unlock Switch" on page 19.

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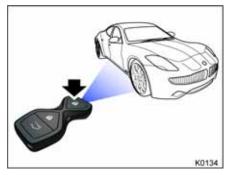
- 11. Hazard warning flashers. See "Hazard Warning Flashers" on page 52.
- 12. Glove compartment open. See "Glove Compartment" on page 22.
- 13. Touchscreen. See "Using the Touchscreen" on page 55.
- 14. Mode selector. See "Using the Touchscreen" on page 55.
- 15. Power window controls. See "Power Windows" on page 53.
- 16. Horn.
- 17. Steering column adjustment. See "Steering Column Position" on page 26.
- Hood release (recessed). See "Hood" on page 105.
- Fuel filler cover release. See "Fuel Filler" on page 98.
- 20. Parking brake. See "Parking Brake" on page 79.
- 21. Trunk release. See "Trunk Interior Release Handle" on page 21.

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LOCKING AND UNLOCKING THE VEHICLE

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ABOUT THE KEY FOB



The vehicle security system, door locks, and ignition are controlled by the key fob. The doors and trunk can be either locked or unlocked using the key fob. The key fob is part of the immobilizer system. It operates in the manner described below.

Passive entry to the vehicle is allowed when you activate the exterior door handle switch and you have a registered key on your person (in your pocket or in your purse). You can configure the setting to unlock the driver's door or all doors through the Central Infotainment Unit (CIU).

The doors can be programmed to use the Passive Lock feature. When the vehicle is in Park [P], press the exterior door handle switch before closing the door. After the door closes, the doors will lock automatically and the park lights will flash, indicating successful activation of the security system.

The key fob can also be used to activate the remote pre-conditioning feature.

You have been supplied with two key fobs which also have an emergency key blade.

OBTAINING REPLACEMENT KEYS AND KEY FOBS

If you lose a key fob or an emergency key blade, contact your local Karma Service Provider to obtain a replacement.

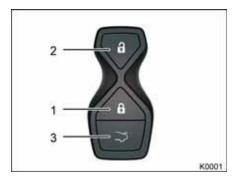
When ordering a new key fob, bring all available key fobs for the vehicle to your

Karma Service Provider to allow the system to be reprogrammed. If a key fob or the key number is not available, your Karma Service Provider can obtain the key code from a restricted access database.

USING THE KEY FOB

WARNING: Always remove the key fob from the vehicle any time you exit and walk away from the vehicle.

CAUTION: Remove all key fobs from the vehicle when it is left unattended. This will ensure the vehicle is left in a secure condition.



The buttons on the key fob operate as follows:

- 1. Key Fob Lock:
 - Press once to lock the vehicle and activate the vehicle's security system. The vehicle's lights will briefly flash to confirm the security system is active.

Passive Lock:

- When exiting the vehicle, press the switch on the exterior door handle, close the door. All doors should lock and the parking lights should flash once, indicating the security system is active.
- Press once, then press and hold the lock button for two seconds to activate the remote pre-conditioning feature. The lights will flash twice; one short and one long, to signal successful activation.

2. Key Fob Unlocking:

- Press unlock button once to unlock the driver door. Press a second time to unlock all doors.
- The horn should sound once and the park lights should flash once.

Passive Unlock:

- When a programmed key fob is in your possession, activate an exterior door handle. The driver door should unlock.
- The horn should sound once and the park lights should flash once.
- This feature can be programmed to unlock all doors through the CIU.
- 3. Trunk
 - Press and hold the trunk release button for 3 seconds to unlock the trunk.

Note: The lock and unlock settings for your Revero can be configured to your personal preferences via the touchscreen.

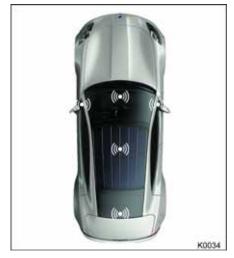
The buttons on the key fob transmit a coded radio signal to a receiver in your Revero. It is not necessary to point the key fob at your vehicle, but you must be within operating range. The operating range will vary according to the condition of the key fob battery and other physical factors.

If the vehicle cannot be locked or unlocked using the buttons on the key fob, you may need to change the key fob battery.

Note: Interference from other radio equipment operating on a similar frequency may also affect the operation of the key fob. If this happens, operate the key fob as close to your vehicle as possible. If you are still unable to unlock your vehicle with the key fob, use the manual door lock.

MEDICAL SAFETY

WARNING: Any person with an implanted medical device should ensure that the device is kept at a distance of at least 8.7 inches (22 cm) away from any transmitter mounted in the vehicle. This is to avoid any possibility of interference between the system and the device. Interference may cause the implanted medical device to malfunction, causing serious injury or death.



Transmitters which detect the presence of the key fob are located in the following locations on your Revero:

- 1. Behind the touchscreen.
- 2. Beneath the center console.
- 3. Trunk underside of the rear parcel shelf.

REPLACING THE KEY FOB BATTERY

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

If the vehicle detects that the key fob battery is low, a text message will be displayed in the Driver Information System (DIS): "Key Fob Battery Low".

When the vehicle is brought in for service, the key fob battery will be replaced as part of the service procedure.

To change the key fob battery:

1. Place the key fob button side up on a soft surface.



- 2. Using a fingernail, carefully release the battery tray lock. The battery tray is spring loaded and will automatically slide the battery out.
- 3. Remove the battery.



- Install a new battery (type CR2032) with the '+' side facing upwards. If possible, avoid touching the flat surfaces of the battery because finger marks will reduce battery life. Wipe the battery clean before installing.
- 5. Re-assemble the two halves of the key fob by aligning them and pressing them together until they snap into place.

Used batteries must be disposed of correctly, as they contain harmful substances. Seek advice on disposal from your local Karma Service Provider and/or your local authority.

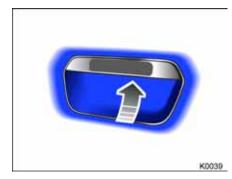
CARING FOR THE KEY FOB

CAUTION: The key fob contains delicate electronic circuits and must be protected from impact, water damage and high temperatures. Avoid contact with solvents, waxes and abrasive cleaners. Do not leave the key fob exposed to direct sunlight.

OPENING THE DOORS

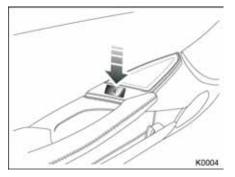
Note: The exterior and interior door releases are disabled when the vehicle is locked.

FROM OUTSIDE THE VEHICLE



With the vehicle unlocked, lightly press the touch pad located behind the door handle to release the door.

FROM INSIDE THE VEHICLE



To open the door from the interior of the vehicle, press the arrowed switch on the interior door panel.

MASTER LOCK AND UNLOCK SWITCH



To lock or unlock all the doors while in the vehicle, press the master locking switch arrowed above.

When any door is unlocked or open, an amber indicator on the switch will illuminate.

AUTOMATIC LOCKING

WARNING: Never adjust the Settings in the CIU while you are driving your vehicle, even if you are temporarily stopped. Wait until you are in a safe location away from traffic, put the vehicle in Park, and then access the Settings menu. Dependent upon configuration, the vehicle's doors will either lock automatically when a speed of 5 mph (8 km/h) is reached or when D (Drive) or R (Reverse) is selected.

The Automatic Locking configuration can be programed from the home screen:

- 1. From MyKarma, select Settings.
- 2. Select Interior then Auto Door Lock.
- 3. Configure the auto door lock function to the desired settings.

WARNING: Never adjust the Settings in the CIU while you are driving your vehicle, even if you are temporarily stopped. Wait until you are in a safe location away from traffic, put the vehicle in Park, and then access the Settings menu.

CHILD SAFETY LOCKS

Child safety locks are installed on both of the rear doors to prevent children from using the rear door switches and accidentally opening the doors when the vehicle is in motion or parked.

The child safety locks are automatically activated by inhibiting the operation of the rear windows, see "Rear window inhibit" on page 53.

It is recommended that the child safety locks are activated whenever children are being carried in the rear seats.

EMERGENCY ACCESS

EMERGENCY UNLOCKING

If the key fob buttons fail to unlock, lock or open the trunk, replace the key fob battery. If the key fob still fails to unlock the vehicle, you can unlock the passenger's door using the key blade.

Note: It is recommended that you keep the mechanical key in the carrying case provided or in a secure location easily accessible.



Press the button on the reverse of the key fob and slide the key blade free.



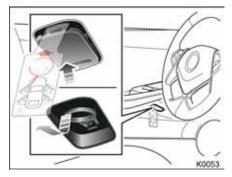
Insert the blade into the lock located below the passenger door handle. Turn the key counter clockwise to open the door.

The vehicle's alarm will sound when the door is opened. To switch off the alarm, press the brake pedal and press the Start/Stop button. If a recognized key fob is detected, the alarm will be deactivated and the vehicle will enter Drive mode.

Note: The alarm is also deactivated when the vehicle enters Accessory mode (as long as a valid key fob is recognized).

Note: If this fails to work, use the keyless start backup procedure. See "Keyless start backup procedure" on page 74.

MANUAL DOOR OPENING



In the event of a power failure, each of the doors can be manually opened from inside the vehicle by pulling the release cable located below the door handle.

To access the release cable, press the lower edge of the cover below the door handle and remove the cover.

OPENING THE TRUNK



To open the trunk, either press the trunk release button on the key fob twice in quick succession or press the trunk release button on the left-hand dashboard closing panel.

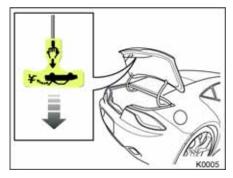
To close, firmly apply downward pressure to the center of the trunk lid.

Note: The trunk release button is disabled if the vehicle is locked, Valet mode is enabled when the vehicle's speed exceeds 5 mph (8 km/h).

Note: The trunk will automatically reopen if the key fob is detected inside the trunk compartment.

TRUNK INTERIOR RELEASE HANDLE

Your Revero is equipped with a mechanical trunk release handle that provides a means of escape in the event that a person becomes locked inside the trunk. Adults are advised to familiarize themselves with the operation and location of the release handle.



A T-shaped handle is located inside the trunk above the latch at the center of the trunk lid. This handle is made using a luminescent material that glows for hours after a brief exposure to ambient light.

To open the trunk from the inside, pull the T-shaped handle and push up on the trunk lid.

GLOVE COMPARTMENT



To open the glove compartment, press the arrowed switch located above the touchscreen.

Note: The glove compartment cannot be opened when the vehicle is locked or when Valet mode is enabled.

Note: When the interior lighting is activated, the glove box light will also illuminate.

VALET MODE

For your peace of mind, your Revero has a Valet mode for those times that your vehicle is parked by another person.

When Valet mode is active, access to the trunk and glove compartment is restricted, providing a secure location for storing personal items.

The climate settings on the minibar and rear backup camera are both active while in Valet mode.

Valet mode can only be deactivated by entering a PIN (Personal Identification Number).

CREATING A PIN FOR VALET MODE:



1. From Favorites>MyKarma>ValetMode.

1	2	3	_		D	
4	5	6				
7	8	9				
間	0					
	ENTE	R				
			1	1		

 Pressing "Valet Mode" opens a numerical keypad allowing four digits to be entered.



3. After entering four digits press "Enter", a mode bar will appear asking for you to re-enter the same four digits.



4. Once entered the code is set and you have entered into Valet mode.

Note: After 5 seconds the mode bar disappears.

Note: Setting the Valet Mode PIN can be performed at MyKarma>Settings>Driver.

ACTIVATING VALET MODE



1. From Favorites>MyKarma>Valet Mode.

Note: Activating Valet mode can be done in MyKarma>Settings>Driver Mode>Valet Mode.

2. Touch the screen and a numeric keypad appears.



3. Enter the four digit pin code and press "ENTER", the screen will display the home screen.



Note: After 5 seconds the mode bar disappears.

WRONG PIN ENTERED



If you enter the wrong PIN a mode bar will appear displaying PIN did not match. Please try again. Entering the correct four digit PIN code and the screen will display the home screen.

Note: After 5 seconds the mode bar disappears.

Note: If no character is entered, or there is no activity in 10 seconds, the system returns to the locked screen.

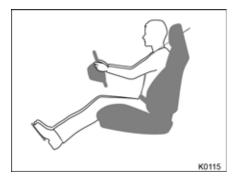
Note: If Valet mode is active, and you can't remember or don't know what the PIN is to deactivate it, you will need to take the vehicle to a Karma Service Provider who will be able to reset the system.

SEATS	AND	STEERING	COLUMN
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	Correct Seating Position	
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CORRECT SEATING POSITION

WARNING: Children under 4ft 5in (1.35 m) tall or younger than 12 years of age must be secured in a suitable child restraint. See "Child Restraints" on page 34.

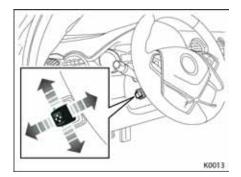


To reduce the risk of injuries in the event of an accident, observe the following:

- The driver and front passenger should 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.
- Sit in an upright position with the base of your spine as far back as possible and the seatback reclined no more than 30 degrees.
- 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 center of the air bag cover should, ideally, be more than 10 inches (254 mm). The driver's arms should be slightly bent when holding the steering wheel.
- Position the seatbelt so that it is midway between your neck and your shoulder. Fit the strap tightly across your hips, not across your stomach.

STEERING COLUMN POSITION

WARNING: Never adjust the steering wheel position while the vehicle is in motion. Doing so will reduce control of the vehicle, and may cause unpredictable steering movements.



With the vehicle stationary, adjust the steering column to the desired driving position.

INTEGRATED HEADRESTS

The front and rear seats provide integrated head restraints in the seatback. The head restraints are not adjustable.

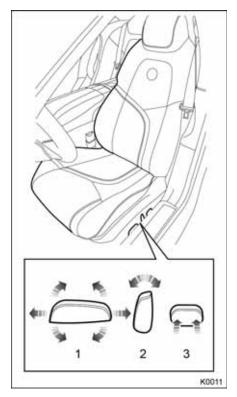
WARNING: To minimize the risk of neck injuries in the event of a collision, the driver and front seat passenger should adjust the seatback inclination such that the headrest is in an upright position.

ELECTRIC SEATS

WARNING: Do not adjust any part of a seat while the vehicle is in motion. Vehicle movement may cause the seat to suddenly shift, potentially causing injury or loss of control.

WARNING: To prevent possible injury, ensure that rear passengers cannot become trapped as the seat moves.

WARNING: Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the seat belts cannot do their job. The shoulder belt will not be against your body. Instead, it will be in front of you. In a crash, you could go into it, receiving neck or other injuries. The lap belt could go up over your abdomen and cause serious internal injuries. For proper protection when the vehicle is in motion, have the seatback upright. Sit well back in the seat and wear the seat belt properly.



- 1. Cushion tilt adjustment and forward/backward adjustment
- 2. Backrest adjustment
- 3. Lumbar support

SEAT HEATERS

The seat heaters can be operated only when the vehicle is in Drive mode. The seat heaters will maintain a pre-determined temperature according to the level selected.

WARNING: If you cannot feel temperature change or pain to the skin, the seat heater may cause burns. To reduce the risk of burns, people with such a condition should use care when using the seat heater, especially for long periods of time. Do not place anything on the seat that insulates against heat, such as a blanket, cushion, cover, or similar item. This may cause the seat heater to overheat. An overheated seat heater may cause a burn or may damage the seat.

The seats can be heated at three different heat levels.

- Press once to operate at the highest heat level. Three indicators will illuminate.
- Press twice to operate at the medium heat level. Two indicators will illuminate.
- Press a third time to operate at the lowest heat level. A single indicator will illuminate.
- Press a fourth time to turn off the heaters.

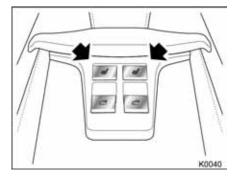
Switching off the vehicle will automatically turn off the seat heaters.

FRONT SEAT HEATERS



To turn on a front heated seat, touch the appropriate heated seat icon on the touchscreen.

REAR SEAT HEATERS



To turn on a rear heated seat press the appropriate switch on the rear center console switch pack.

DRIVER'S SEAT MEMORY

WARNING: Before activating the seat memory, ensure that the area immediately surrounding the seat is clear of obstructions and that all occupants are clear of moving parts.

WARNING: Never adjust the Settings in the CIU while you are driving your vehicle, even if you are temporarily stopped. Wait until you are in a safe location away from traffic, put the vehicle in Park, and then access the Settings menu.

PROGRAMMABLE MEMORY

The vehicle can memorize three different driver seat and steering column positions through the "Settings" menu options in the CIU.

When you unlock the vehicle, the seat and steering column will automatically adjust to the last used saved memory settings.

Adjust the seat and steering column to the desired position, and then store the program in the seat memory using the touchscreen.

The Driver's last used saved seat position will be automatically recalled if the following occurs:

- The car is in Park [P].
- A programmed key fob is present.
- The driver's door goes from "open" to "closed" (or the door is "open" and the driver places vehicle in vehicle in System Ready mode as if going to drive the car).
- The Driver seat is not in the last saved seat position location.

MEMORY SETTING PROCEDURE

- 1. Select [SETTINGS].
- 2. Select [INTERIOR].
- 3. Select the Memory/Seat Position selection.
- 4. Adjust the driver seat and steering wheel for Driver #1.
- 5. Touch the "Set" selection (under the Primary Seat Memory selection).

Repeat the above steps for the Secondary Seat Memory.

EASY ENTRY AND EXIT

Entry and exit mode provides automatic movement of the steering column and driver's seat making it easier to enter or exit the vehicle. Easy entry/exit is enabled and settings can be programmed in the CIU under the interior section located under vehicle settings.

Note: This feature can be enabled or disabled via the vehicle's touchscreen.

ENTRY

When a programmed key fob is detected outside the vehicle and the driver door goes from "closed" to "open." The steering column and driver's seat will return to the previous position.

EXIT

When the vehicle is powered-down, the steering column will move to the

uppermost tilt position and the driver's seat will move to the exit position.

Note: If the steering column or driver's seat is adjusted during entry or exit operation, automatic movement will stop.

ABOUT SEAT BELTS

WARNING: Seat belts should be worn by all occupants, for every journey no matter how short. Failure to do so greatly increases the risk of death or serious injury in the event of an accident.

Seat belts and child restraint systems are the most effective means of restraining vehicle occupants from impact forces, which, in turn, minimizes the danger of injury from interior impacts and the effects of whiplash. Therefore wearing a seat belt is required by law in most states.

Both the driver and passenger seating positions are equipped with three-point inertia reel seat belts. Inertia reel belts are tensioned automatically and allow freedom of movement during normal driving conditions.

The belt reel automatically locks, preventing movement of occupants, whenever your vehicle experiences the force associated with hard acceleration, braking, cornering or on impact in a collision. The reel may also lock when driving on steep hills or slopes.

Each of the Revero's rear seating positions is equipped with an Automatic Locking Retractor (ALR), which can lock a child restraint system when the webbing is released after being completely pulled out. The Revero's right front seating position is fitted with a cinch tongue which can be used to lock the lap belt portion of the seat belt assembly. Once the tongue is inserted into the buckle, the lap portion will be locked and cannot be extended by pulling the webbing. It does not require inverting, twisting or deforming of the webbing to make this locking feature operate.

SEAT BELT SAFETY

WARNING: Children under 4ft 5in (1.35 m) 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. WARNING: A seat belt which is not worn, is 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.

WARNING: Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the pelvis, over the shoulder and across the chest. Avoid wearing the lap section of the belt across the abdominal area.

WARNING: Always adjust the belt to remove slack. Seat belts worn too loose can result in injuries because they allow excessive forward movement in an accident. Never wear the shoulder belt under your arm or behind your back.

WARNING: 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.

WARNING: Seat belts should not be worn with any part of the strap twisted.

WARNING: Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

WARNING: It is essential that seat belts that have been worn in an accident are replaced, even if damage to the assembly is not obvious. The belt anchors must also be checked.

WARNING: No modifications or additions should be made that prevent the seat belt mechanism from taking up slack, or that prevent the seat belt being adjusted to remove slack. A slack belt greatly reduces the level of occupant protection.

WARNING: If any damage, wear, cuts, defects, or impaired operation are noted with the seat belts, the vehicle should be taken to your Karma Service Provider for immediate attention. Do not use the vehicle if the seat belts cannot be operated correctly.

WARNING: Children can be seriously injured or strangled if a shoulder belt is wrapped around their neck and the seat belt continues to tighten. Never leave children unattended in a vehicle and never allow children to play with the seat belt.

WEARING THE SEAT BELT FASTENING THE SEAT BELT



- Draw the belt out smoothly, ensuring that the belt height, the seat position and your position on the seat are correct. The belt should lay flat across the pelvis, chest and mid-point of the collar bone between the neck and shoulder.
- With the belt correctly positioned, place the metal tongue into the buckle nearest to you. Press until a click is heard.

RELEASING THE BELT

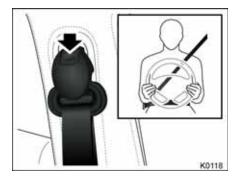
WARNING: Never allow more than one child to wear the same seat belt. A seat belt with two people in it cannot properly restrain and could cause injury.

Never allow a child to wear the seat belt with the shoulder belt behind their back. A child who is not wearing the belt properly can be seriously injured by the belt. The shoulder belt should go over the shoulder and across the chest. Note: When releasing the belt, it is advisable to hold it near the buckle before pressing the release button. This will prevent the belt from retracting too quickly.

To release the seat belt, press the red button.

ADJUSTING THE HEIGHT OF THE FRONT SHOULDER BELT

WARNING: After adjustment, release the adjustment button and then try to move the anchor point up or down to ensure it is locked into position.



The height of the shoulder belt should be adjusted so that the belt passes over the center of your shoulder. The belt should be away from your face and neck, but not falling off your shoulder.

To adjust the height of the shoulder belt, press the adjustment button and move the shoulder belt anchor to the desired position. Release the button to lock the anchor in position.

WEARING SEAT BELTS WHEN PREGNANT

WARNING: Pregnant woman should always wear seat belts to protect themselves and their unborn child.

WARNING: Never place anything between you and the seat belt to cushion the impact in the event of an accident.



The lap portion of the belt should be worn as low as possible across the hips, not the waist. Position the diagonal part of the belt between the breasts and to the side of the abdomen. Ensure that the seat belt is not slack or twisted.

If you have any concerns about wearing seat belts, contact your doctor.

SEAT BELT REMINDER

The driver's seat belt includes a buckle sensor, to detect when the buckle is latched.



If the driver's seat belt is not fastened, an indicator light on the DIS will illuminate.

In addition, if the seat belt is unfastened when the vehicle is in Drive mode and the vehicle's is moving at a speed greater than 5mph (8 km/h), an audible chime will sound for 15 seconds as a belt reminder.

SEAT BELT TENSIONERS

WARNING: Once the seat belt tensioners have been activated, they must be replaced. After any collision, always have the air bags, seat belt assembly and any associated components checked and, if necessary, replaced by a Karma Service Provider.

The seat belts are equipped with tensioners that activate in conjunction with the air bags and provide additional protection in the event of a severe frontal impact on your vehicle.

The tensioners automatically retract the seat belt, reducing any slack in both the lap and diagonal portions of the belts.

Following an accident in which the tensioners have been activated, the seat belts continue to function as restraints and must be worn if you drive your Revero.

CARING FOR SEAT BELTS

WARNING: Regularly check the condition of all belts. Replace seat belts if you notice any damage to the belt webbing, fittings, retractor mechanisms or buckles.

Three tests for checking seat belts:

- 1. With the seat belt fastened, give the webbing nearest the buckle a quick pull. The buckle should remain securely locked
- 2 With the belt unfastened unreel the webbing to its limit. Check that unreeling is free from snags and visually check the webbing for wear. Allow the webbing to retract, checking that retraction is smooth and complete.
- 3. With the webbing half unreeled, hold the tongue plate and pull forward quickly. The mechanism must lock automatically and prevent further unreeling.

If a seat belt fails any of these tests, contact a Karma Service Provider immediately to have the seat belt inspected.

For seat belt cleaning information, see "Cleaning and Vehicle Care" on page 114.

CHILD RESTRAINTS

WARNING: Your Revero is equipped with an air bag system that has no provision for switching off or deactivating the front passenger air bag.

WARNING: Extreme hazard! Rear facing child safety seats should never be used in the front seat, or in the path of any frontal air bag. Doing so increases the risk of death or serious injury when the air bag deploys. The best place for a child is properly restrained in the rear seats.

WARNING: Do not use a forward facing child seat until a child is above the minimum weight of 20 lb. (9 kg) and able to sit up unaided. Up to the age of two, a child's spine and neck are not sufficiently developed to avoid injury in a frontal impact.

WARNING: Do not allow a baby or infant to be held or carried on the lap. The force of a crash can increase effective body weight by as much as thirty times, making it impossible to hold onto the child. At all times, children should be restrained in age and size appropriate child seats to reduce the risk of injury in a crash.

The seat belts installed on your Revero are designed for adults and larger children. For their safety, it is very important that all infants and children under 12 are restrained in a suitable child safety seat appropriate to their age and size.

Only install a child seat that has been approved for use in your Revero, and ensure that the manufacturer's installation instructions are followed exactly. Consult a Karma Service Provider for a list of approved child seats.

Note: The legislation which governs how and where children should be carried when traveling in a vehicle is subject to change. It is the responsibility of the driver to comply with all current laws and regulations.

CHILD RESTRAINTS FOR SMALL CHILDREN AND BABIES

Child seats and restraint systems designed for your Revero will be one of two types:

- Those secured in vehicle seats by the seat belts.
- LATCH (Lower Anchors and Tether for Children) type child restraints, employing anchor bars built into the rear seat frame.

All new and most older type child restraint systems incorporate an upper tether strap which can be attached to an anchorage point on the vehicle.

CHILD RESTRAINTS FOR LARGER CHILDREN

In a situation where a child is too large to fit into a child safety seat, but is still too small to safely fit the 3 point seat belt properly, a booster seat is recommended for maximum safety. Follow the manufacturer's installation instructions exactly, then adjust the seat belt to suit.

Children typically require the use of a booster seat appropriate to their age and size, thereby enabling the seat belts to be properly worn, reducing the risk of injury in a crash.

CHOOSING A CHILD RESTRAINT

Any child under 4ft 5in (1.35 m) tall or younger than 12 years of age traveling in the vehicle must be secured in the appropriate safety restraint for their weight (see chart below). Contact a Karma Service Provider for advice.

Category	Weight
Category 0	Up to 22 lbs
category o	(10 kg)
Catagory Ola	Up to 29 lbs
Category 0+s	(13 kg)
Catagony	20 to 40 lbs
Category I	(9 to 18 kg)
Category II	33 to 55 lbs
	(15 to 25 kg)
Catagony	48 to 80 lbs
Category III	(22 to 36 kg)

USING A NON LATCH CHILD RESTRAINT

Carefully follow the instructions provided by the manufacturer of the restraint system.

Make sure that a child falls into the correct weight range for the seat. Avoid dressing a child in bulky clothing and do not place any objects between the child and the restraint system.

Always use the appropriate child restraints and adjust harnesses for every child, every trip.

Ensure that you have removed all slack from the vehicle's seat belt.

Regularly check the fit of a child seat and replace seats or harnesses that show signs of wear.

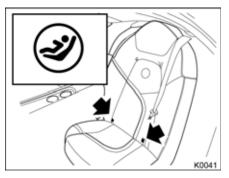
USING A LATCH CHILD RESTRAINT

WARNING: If the restraint is not correctly anchored, there is a significant risk of injury to the child in the event of a collision or emergency braking.

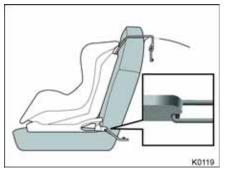
WARNING: Child restraint anchorages are designed to withstand only loads imposed by correctly installed child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items to the vehicle. Doing so will greatly increase the risk of serious injury or death in the event of an accident.

Your Revero's rear passenger seats are equipped with the LATCH child restraint anchorage system.

We recommend that you carefully follow the instructions supplied by the manufacturer when installing your LATCH compatible child seats.



Lower LATCH anchorage points are located between the seat back rest and rear cushion on both sides of the vehicle as indicated by the child seat identification tab on the seat.



To install your child seat with a LATCH restraint system, slide the child seat until it engages onto the anchor bars.

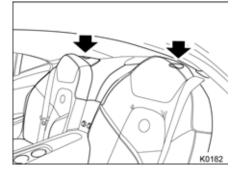
Test the security of the child seat, and ensure it is correctly latched before seating a child. Attempt to twist the child seat from side to side and to pull it away from the vehicle seat, then check that the anchors are still securely in place.

UPPER TETHER STRAP ANCHORAGES

WARNING: Always check the upper tether strap for damage or wear and tear. A child could be seriously injured or killed in a sudden stop or collision if the child restraint upper tether strap is damaged or not functioning properly.

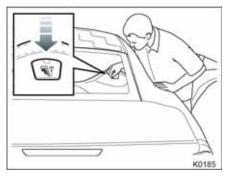
Upper tether anchorages are provided at each seating position equipped to accept LATCH child restraints.

Note: Always ensure that if an upper tether is provided, it is secured and tightened properly, as this provides maximum protection for a child.

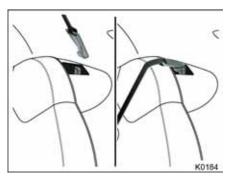


Anchor points for the upper LATCH child restraints are located behind the rear seat headrests.

Note: Due to the restricted access in the rear of your Revero, the easiest way to actually view the upper anchorage point is by standing outside the vehicle and looking through the rear window.



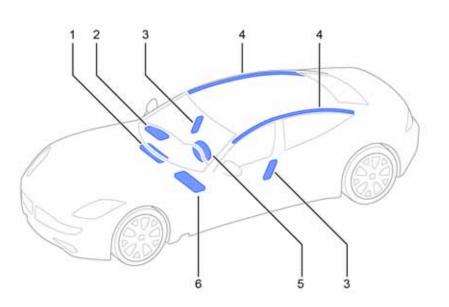
With the rear door open, reach through the door and remove the protective cover located behind the headrest.



Attach the tether strap hook to the tether anchor point.

Tighten the tether strap according to the child restraint manufacturer's instructions.

LOCATION OF AIR BAGS



K0120

- 1. Passenger's knee air bag
- 2. Passenger's front air bag
- 3. Side air bag
- 4. Curtain air bag
- 5. Driver's air bag
- 6. Driver's knee air bag

The exact location of the air bag modules are indicated by the word **AIR BAG** on the trim or a label sewn into the seat cover.

IMPORTANT INFORMATION

WARNING: Always remember that the air bags are a Supplementary Restraint System providing additional protection in certain types of collision only - they do not replace the need to wear a seat belt. To reduce the risk of severe injury or death in the event of a crash, all occupants in all seating positions should always wear their seat belt.

WARNING: Occupants not properly restrained in designated seating positions are at high risk of death or serious injury in the event of air bag deployment.

WARNING: Do not use a child restraint on a seat with an operational air bag in front of it. There is a risk of death or serious injury when the air bag deploys.

WARNING: Because airbags inflate with great force and faster than the blink of an eye, anyone who is up against, or very close to any airbag when it inflates can be seriously injured or killed. Do not sit unnecessarily close to any airbag, as you would be if sitting on the edge of the seat or leaning forward. Safety belts help keep you in position before and during a crash. Always wear a safety belt, even with airbags. The driver should sit as far back as possible while still maintaining control of the vehicle.

HOW THE SYSTEM WORKS

WARNING: The air bags are a Supplemental Restraint System providing additional protection in certain types of collisions only - they do not replace the need to wear a seat belt.

Operation of the air bag system depends on the rate at which your vehicle's passenger compartment changes speed as a result of a collision.

In the event of a collision, the air bag control unit monitors the rate of deceleration induced by the collision to determine whether the air bags should be deployed. When deployed, air bags inflate instantly with considerable force and are accompanied by a loud noise. The inflated bag, together with the seat belt restraint system, limits the movement of the occupants, thereby reducing the risk of injury to the head and upper torso.

The air bag system is not designed to operate as a result of:

- Rear collisions
- Minor front impacts
- Minor side impacts
- Heavy braking
- Driving over bumps or potholes

It follows, therefore, that significant superficial damage can occur without the air bags deploying or, conversely, that a relatively small amount of structural damage can cause the air bags to be deployed.

KNEE AIR BAGS

The knee air bags are designed to work in conjunction with the deployment of the front air bags. When deployed, the knee air bags limit the forward motion of the driver or front passenger by restricting leg movement, thereby positioning the occupant so that the front air bags work more effectively.

SIDE AIR BAGS

WARNING: Occupants should not lean on or sleep against the door or side windows in seating positions with seat-mounted side impact airbags and/or roof-rail airbags

WARNING: Ensure that a gap is maintained between the side of the vehicle and the torso, to enable unobstructed inflation of the seatmounted side air bags.

WARNING: Do not use nonapproved seat covers or accessory seat covers on a front seat as these will prevent the side air bag from deploying correctly in an accident. If in doubt, consult a Karma Service Provider. Side air bags are designed to protect the thorax region of the torso and pelvis and will only deploy in the event of a severe side impact. They will not inflate as a result of frontal or rear impacts only. The air bags on the non-impacted side of the vehicle will not be deployed.

CURTAIN AIR BAGS

WARNING: For the curtain air bags to deploy correctly, the roof lining and A post trim must be undamaged and correctly installed. Any damaged air bag component should be referred to a Karma Service Provider for inspection.

Curtain air bags are designed to protect the head in the event of a severe side impact. They will not inflate as a result of frontal or rear impacts alone.

DEPLOYMENT EFFECTS

WARNING: The powder released during air bag deployment 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 if you are able or open a window.

WARNING: Inflation and deflation of the air bags take place instantaneously and will not provide protection against the effects of secondary impacts that can occur during multiple vehicle collisions.

WARNING: After an air bag has been triggered, air bag parts are hot - do not touch them. Have the air bags replaced at a Karma Service Provider.

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.

The Supplementary Restraint System (SRS) warning indicator will illuminate to

indicate that the system has been deployed.

Air bag deployment slows down and restricts the movement of the vehicle occupant reducing the load on the body. The air bags are in a de-pressurized state following an accident.

SAFETY FEATURES

Along with the deployment of the air bags, the following events will also occur to assist you and any recovery personnel:

- The doors will unlock.
- The hazard lights will switch on.
- The interior lighting will switch on.
- The fuel supply to the engine will be switched off.
- The high voltage supply will be switched off.
- The HVAC system will be disabled.

The high voltage supply, the fuel supply to the engine, and the cooling system to the passenger compartment can be restored by switching the vehicle OFF, allowing it to go to "sleep," then entering Accessory Mode.

OBSTRUCTION OF AIR BAGS

WARNING: Do not allow passengers to obstruct the operation of the air bags by placing parts of their body, or any other objects in contact with, or in close proximity to, an air bag module.

WARNING: Do not attach or position items on an air bag cover which could interfere with the inflation of the air bag or be propelled inside the vehicle and injure occupants.

PASSENGER AIR BAG DEACTIVATION

WARNING: Your Revero is equipped with an air bag system that has no provision for switching off or deactivating the front passenger air bag.

WARNING: Do not use seat accessories that block the inflation path of a seat-mounted side impact airbag. Never secure anything to the roof of a vehicle with roof-rail airbags by routing a rope or tie-down through any door or window opening. If you do, the path of an inflating roof-rail airbag will be blocked.

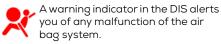
AIR BAG WARNING LABELS

Air bag warning information is printed on the driver and passenger sun visors.

WARNING: Even with advanced air bags children can be killed or seriously injured by the airbag. The back seat is the safest place for children. Never put a rear-facing child seat in the front. Always use seat belts and child restraints.



SRS WARNING INDICATOR



The components of the system being monitored include:

- · SRS warning indicator
- Clock spring
- · Air bag modules
- Seat belt tensioners (front seat belts)
- · Air bag diagnostic control unit
- Crash sensors
- · Air bag wiring harnesses

When the vehicle is in System Ready mode or Drive mode, the air bag control unit monitors the readiness of the system's electrical circuits.

The SRS warning lamp should illuminate in the DIS for six seconds and then turn OFF, indicating the system is operational and ready. If the SRS warning lamp is illuminated, a fault has been detected and the air bag system is disabled.

Contact a Karma Service Provider if:

- The warning indicator fails to illuminate when the vehicle is first put into Accessory or Drive mode.
- The warning indicator fails to extinguish within approximately six seconds after the vehicle is put into Accessory or Drive mode.
- The warning indicator illuminates while your Revero is being driven.

AIR BAG SERVICE INFORMATION

WARNING: The disposal of used air bag units is subject to stringent regulations, and should only be handled by a Karma Service Provider.

WARNING: If the airbag warning light ever comes on and stays on, it means that something may be wrong with the airbag system. To help avoid injury to yourself or others, have the vehicle serviced right away.

For your safety, a Karma Service Provider, who is familiar with your Revero, must perform the following tasks:

- Removal, replacement, repair, or modification, of any wiring or component in the vicinity of air bag system components, including the steering wheel, steering column, dashboard, DIS and roof lining.
- Modification to the front or side of your Revero, including the bumper and chassis.

In addition, always seek the assistance of a Karma Service Provider if:

- An air bag inflates.
- A seat belt tensioner activates.
- The front or side of your Revero is damaged, even if the air bag has not inflated.
- Any part of an air bag module cover shows signs of cracking or damage.

VEHICLE MODIFICATIONS

WARNING: Occupants with disabilities which may require modification of the vehicle must contact a Karma Service Provider before any modifications are made.

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DRIVER INFORMATION SYSTEM (DIS) USA SPECIFICATION



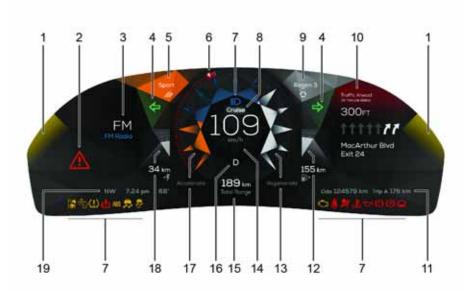
K3010

- 1. Lane departure warning (left/right)
- 2. Function indicator with description
- 3. Audio / Phone status
- 4. Turn signals (left/right)
- 5. Drive mode
- 6. Cruise control speed setting
- 7. Function indicators
- 8. Cruise control ON indicator
- 9. Regenerative braking setting
- 10. Navigation turn-by-turn

- 11. Odometer, Trip meter
- 12. Fuel range
- 13. Regenerative braking meter
- 14. Speed odometer
- 15. Total range
- 16. Gear status
- 17. Acceleration meter
- 18. Electric range
- 19. Compass, Time, Temperature

K3011

DRIVER INFORMATION SYSTEM (DIS) CANADIAN SPECIFICATION



- 1. Lane departure warning (left/right)
- 2. Function indicator with description
- 3. Audio / Phone status
- 4. Turn signals (left/right)
- 5. Drive mode
- 6. Cruise control speed setting
- 7. Function indicators
- 8. Cruise control ON indicator
- 9. Regenerative braking setting
- 10. Navigation turn-by-turn

- 11. Odometer, Trip meter
- 12. Fuel range
- 13. Regenerative braking meter
- 14. Speed odometer
- 15. Total range
- 16. Gear status
- 17. Acceleration meter
- 18. Electric range
- 19. Compass, Time, Temperature

INDICATOR ICONS

The following indicator icons may be displayed throughout the DIS during normal driving conditions.

Tires	
lcon	Description
(!)	Check tire
TPMS	Tire pressure monitoring system function. Contact Karma service provider.

Function check	
lcon	Description
-∯-	Rear center brake light
	High beam
	Low beam
	Day run lights
	Marker light
	Fog light

Brakes		
lcon (USA)	(Canada)	Description
		Brake system function
BRAKE	()	Left brake lamp function
		Right brake lamp function
		Calibration required. Apply foot and park brake
		Press brake to start
brake Fluid		Brake fluid level low
PARK	P	Park brake
Lamps		
lean	Description	

Lamps	
lcon	Description
O ≢	Rear fog lamp
D	Low/Dipped beam headlights
	Head lamp high beam ON
ÐE	Parking lamps ON

Hazards (yellow)	
lcon	Description
	Powertrain function
	Brake system function
	Park sensor function
	Accelerator pedal function
	Onboard charger function

Hazards (red)	
lcon	Description
	Emergency shut-down
	Critical powertrain function
Δ	Performance limited
<u> </u>	Gear selector function
	Park gear lock function
	Engine disabled
	Genset function, EV range only

Fuel & Battery	
lcon	Description
	Good fuel level
â	Low fuel level
	Very low fuel level

Fuel & Battery	
lcon	Description
44	Good charge level
44	Low charge level
44	Very low charge level

Misc	
lcon	Description
Ō	Check engine
\$	Unplug vehicle to start
8	Windshield washer fluid low
	Key fob not detected
8!	Key fob not recognized
	Key fob battery low. Replace battery
OFF	Traction control function OFF
•^	Traction control function
(ABS)	Anti-lock brake (ABS) function
!	Steering system function
r.	Oil change due
d'	Engine oil critically low

INSTRUMENTS

Misc	
lcon	Description
<u>یا ا</u>	Engine is extremely cold and has been disabled
<u>بار</u>	Engine hot! Drive moderately
کی	Engine overheated
*	Seat belts
×	Airbags

Departure-Collision				
lcon	Description			
	Lane departure warning system function			
	Forward collision warning system function			
*	Forward collision warning			
* *	Forward collision warning			

Door & Ajar events					
lcon	Description				
-	Front left door ajar				
	Front right door ajar				
-	Rear left door ajar				

Door & Ajar events					
lcon	Description				
	Rear right door ajar				
	Trunk ajar				
6	Hood ajar				
	Check fuel cap/door				

Battery						
lcon	Description					
÷÷	12 volt system function					
Ø	High voltage battery state of charge low					
¢)	High voltage battery function High voltage battery temperature is low					

WARNING AND INFORMATION MESSAGES

The lower left mid segment of the DIS is the notification area that displays all notification messages.

WIPERS AND WASHERS

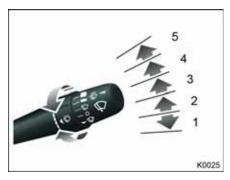


CAUTION: Do not operate the wipers on a dry windshield.

CAUTION: In freezing or very hot temperatures, ensure that the wiper blades are not frozen or adhered to the windshield before operating.

CAUTION: In winter, remove any snow or ice from the windshield, wiper arms and blades before operating.

The wipers and washers are controlled by the right-hand steering column lever.



With the vehicle in Accessory or Drive mode, move the lever up or down to select the required wiper mode.

- 1. Single wipe
- 2. Off
- 3. Intermittent wipe mode
- 4. Normal speed operation
- 5. High speed operation

INTERMITTENT WIPE

With the wiper control in position 3, rotate the collar clockwise to increase the interval between wipes. Rotate the collar counterclockwise to decrease the interval between wipes.

AUTOMATIC WIPER

The user can program the wipers to function intermittently or automatically through the CIU under Settings.

Position the rotary switch collar to the sensitivity level to activate the Automatic Wiper function. When the vehicle detects moisture on the windshield, the wipers will be automatically activated.

WINDSHIELD WASHER



Press and release the end of the lever to operate the windshield washer.

HEAD LAMP WASHERS

The head lamp washers operate in conjunction with every fifth operation of the windshield washers.

EXTERIOR LIGHTING



The exterior lights are controlled by the left-hand steering column lever.

Turn the rotary control on the end of the lever to select the required lighting mode.

- OFF
- AUTO: the AUTO setting is the default setting for head lamps and side lamps. If the lights are turned off, or if the ambient light falls below a defined level, they will automatically be activated.
- Side lamps only
- Side lamps and head lamps

HEAD LAMP LOW BEAM

An indicator light on the DIS will illuminate when the head lamp low beams are operating.

HEAD LAMP HIGH BEAM

With the head lamps on, push the column lever away from the steering wheel to select high beam. An indicator light on the DIS will illuminate when high beam is selected.

To switch back to low beam, pull the lever towards the steering wheel.

To flash the head lamps on high beam, pull the lever fully towards the steering wheel and release it.

HEAD LAMP COURTESY DELAY

The headlamp courtesy delay operates whenever the vehicle is turned off and the

exterior lighting switch is in the AUTO position. The head lamps will remain illuminated for up to two minutes.

Note: The head lamp courtesy delay settings can be configured to your personal preference via the touchscreen.

The courtesy delay may be canceled at any time by either selecting Accessory mode or turning the exterior lighting switch to the OFF position.

APPROACH LIGHTING

If the exterior lighting switch is in the AUTO position, the head lamps will illuminate when the vehicle is unlocked using the key fob.

Note: The approach lighting setting can be configured to your personal preference via the touchscreen.

DAYTIME RUNNING LAMPS

In certain markets, the side lamps, license plate lamps and head lamp low beams will automatically illuminate when the vehicle is in Drive mode and the exterior lights switch is in the off position.

Note: The DIS illumination remains off.

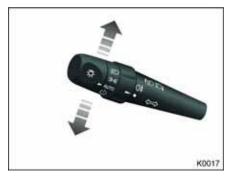
REAR FOG LAMPS

With the headlights on, rotate and release the collar on the lever to turn the rear fog lamps on.

An indicator illuminates on the DIS when the fog lights are operating.

TURN SIGNALS

Press the switch again to switch off the hazard flashers.



With the vehicle in Accessory or Drive mode, move the lever up or down to operate the turn signals.



A left or right indicator light on the DIS will flash when the direction indicator lamps are operating.

When the lever is held momentarily up or down against spring pressure and then released, the turn signals will flash to indicate a lane change.

HAZARD WARNING FLASHERS

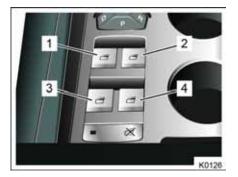


Press the arrowed switch to operate. The front and rear turn signals will flash along with the turn signal indicator lights on the DIS. If the vehicle is in System Ready mode, the flashers will continue to operate. Use in an emergency to warn other road users that your vehicle is disabled.

POWER WINDOWS

WARNING: Closing power windows on fingers, hands or other vulnerable parts of the body may result in serious injury. Ensure that your passengers are familiar with the window controls and aware of the potential dangers.

The power windows can be operated in Accessory or Drive modes.



- 1. Left-hand front window
- 2. Right-hand front window
- 3. Left-hand rear window
- 4. Right-hand rear window

Press and hold the front of the respective switch to lower the window. Pull and hold the front of the respective switch to raise the window. Release the switch at any point to stop window movement.

EXPRESS WINDOW OPERATION

All of the windows can be fully opened or closed with a single press of the switch. Firmly press or lift (and then release) the front of the switch, to open or close the window. Window movement can be stopped by pressing the switch again.

REAR WINDOW OPERATION

The rear windows can be operated from the switches on the rear center console if the rear window inhibit switch has not been activated.

REAR WINDOW INHIBIT

WARNING: If children are carried in the rear seats, the rear window inhibit switch should be used to prevent operation of the windows. If the windows are operated by young children there is a risk of death or serious injury.



To disable the rear window switches, press the rear window inhibit switch (arrowed). A light on the switch will illuminate when the rear windows switches are inhibited.

Note: Inhibiting the rear window switches also activates the child safety locks.

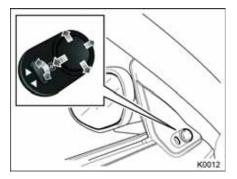
Press the switch again to cancel.

Note: The windows can still be operated using the switches located in the front of the vehicle.

EXTERIOR MIRRORS

WARNING: Depending on the type of mirror glass installed on your Revero, distances may be difficult to judge accurately. Objects viewed in the mirror may be closer than they appear.

WARNING: Never adjust the Settings in the CIU while you are driving your vehicle, even if you are temporarily stopped. Wait until you are in a safe location away from traffic, put the vehicle in Park, and then access the Settings menu.



To adjust the exterior mirror position:

- 1. Select the required mirror using the mirror selector switch.
- 2. Use the mirror control to set the desired mirror position.

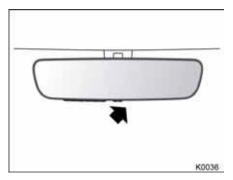
FOLDING SIDE MIRRORS

Auto Fold-In: lock the car from either the key FOB or the master door lock switch. When the doors are closed, the mirrors will automatically fold-in.

Auto Fold-Out: Unlock the doors from either they key FOB or Passive Unlock feature. The mirrors will automatically foldout.

Note: Automatic folding and unfolding of the exterior mirrors, when the vehicle is locked or unlocked, can be configured to your personal preference via the touchscreen.

INTERIOR REAR VIEW MIRROR



The rear view mirror will automatically dim in proportion to the level of glare detected from a following vehicle's headlights.

If desired, this feature can be manually switched off. An indicator light (arrowed) will illuminate when the feature is active.

Note: If the rear window is obscured, or the light falling on the mirror is otherwise obstructed, the automatic dimming may not operate correctly.

USING THE TOUCHSCREEN

CAUTION: To ensure that the touchscreen continues to operate correctly, basic care points are listed below.

- Clean ONLY with a lightly moistened soft cloth.
- Do not use chemical agents, or domestic cleaners, to clean any part of the touchscreen, or around it.
- Do not allow any sharp, hard or abrasive objects to come in contact with the touchscreen.
- Where possible, try to park the vehicle so as to avoid exposing the touchscreen to direct sun light for long periods.

WARNING: Only operate, adjust or view the touchscreen when it is safe to do so. If necessary, stop the vehicle to make changes, or safely operate features of the touchscreen system.

The touchscreen can be operated whenever the vehicle recognizes a key fob within the vehicle.

Note: A short, light press is sufficient to operate functions. Do not use excessive pressure.

OVERVIEW

The Karma home touchscreen interface offers many features.

Touch the desired icon on the home screen to access the desired feature. When active, the icon will turn blue.

Note: Apple® CarPlay and Android Auto coming soon.



- 1. Audio
- 2. Favorites
- 3. Phone
- 4. Volume
- 5. My Karma
- 6. Temperature passenger side
- 7. Ventilation

- 8. Rear window defroster
- 9. Climate control
- 10. Windshield defroster
- 11. Fan speed
- 12. Temperature driver side
- 13. Navigation

FAVORITES

The Favorites Menu is located at the top of the infotainment display screen. Touching the star icon provides access to four categories of programmed favorites (audio, navigation, phone, and My Karma), allowing for quicker navigation through your most-used items.



FAVORITE ACCESS

Access Favorites by touching the star at the top of the display.

To access the favorites lists, touch one of the four quick access category tabs located at the top of the favorites display screen:

- Audio
- Navigation
- Phone
- My Karma

AUDIO



Favorite Audio compiles your favorite selections from all available inputs, including FM, AM, Bluetooth and USB. If a favorite is located on a disconnected media device, the display will be grayed and you will not be able to select it.

To delete favorites:

- 1. Press the EDIT text in the upper right hand corner.
- 2. Red X's will appear on the list.
- 3. Press the X next to the item to be deleted.

To add a selection to the audio favorites list:

- 1. Touch the audio icon from the main screen.
- 2. Select the audio source, and scroll through the choices.
- 3. When the desired selection is highlighted, touch the star icon next to the selection to save it to favorites.
- 4. To remove a selection, just touch the star icon again.

If choosing selections from a connected media device, the device must be connected to choose it from the favorites list. Up to 10 selections can be saved to the audio favorites list.

NAVIGATION



Favorite Navigation allows quick and easy access to frequently visited destinations.

To add a location to the favorites list:

- 1. Touch the Navigation icon from the main screen,
- 2. Touch the Where to?
- 3. Up to 10 destinations can be added to the favorites list.
- 4. Touch Go to begin navigation

PHONE



Favorite Phone accesses the contact list from a connected mobile device.

To add a contact to favorites:

- 1. Touch the phone icon.
- 2. Select Contacts.
- 3. Scroll through the list until the desired contact is highlighted.

- 4. Touch the star next to the number to save it to the favorites list.
- 5. To remove a contact, touch the star icon again.
- If a contact has more than one number available (such as mobile and home), either number can be selected as a favorite.

Up to 10 contacts can be saved to the favorites list.

MY KARMA



Favorite My Karma is a place to find saved systems configuration settings. Actions available from this screen include:

- Quick activation of Valet Mode.
- Automatic Lock settings configuration.
- Seat position memory configuration.

There are 10 options available in the favorites list which were pre-set at the factory. These options cannot be edited or removed from the My Karma favorites list.

AUDIO

WARNING: For safety reasons, ensure that you do not become distracted from the task of driving, through use of any of these systems.



The Revero audio system includes AM/FM radio, with the ability to connect external media devices via Bluetooth or USB.



To access the audio system settings:

- 1. Touch the music note icon on the main display screen.
- 2. Touch the Settings icon in the upper right corner of the main audio display screen.
- 3. Adjust the desired function.

VOLUME CONTROL



- 1. Press the speaker icon at the bottom right corner of the main display to bring up the volume controls.
- Press the desired level to move the volume indicator to that level, and adjust the volume accordingly.
- Press the Mute icon to mute the sound (icon will turn red);
- 4. Press the mute icon again to return to the previous volume.
- 5. The volume display will disappear if left untouched for five seconds.

SELECT A SOURCE



To select an audio source:

- 1. Touch the music note icon from the main display screen,
- 2. Touch the Select Source tab at the top of the audio screen.
- 3. Choose from the following options:

From here you can select:

FM /AM radio

• Brings up the station selection screen.

Favorites

• Brings up programmed list of favorites.

Bluetooth / USB

• Brings up the menu for the connected device.

CHANGING STATIONS



There are two methods for changing the radio station:

- + or of tune function.
- The up and down arrows of the seek function.

From the radio screen, the user can:

- Touch the star to the right of the radio station listing to add it to the favorites list.
- Touch the Select Source button to change the audio source.
- Touch the Home icon to access other features within the infotainment system. The audio will continue to play unless turned off.

Note: Selecting Bluetooth or USB requires that compatible device be connected to the infotainment system.

NAVIGATION

WARNING: Be careful when operating the navigation system. Looking away from the road can lead to a serious or fatal accident. Read the safety instructions in the Owners Manual.



The Navigation feature offers turn-by-turn navigation assistance, as well as preprogrammed Points of Interest (POI) such as restaurants and gas stations.

To access navigation:

- 1. Select the navigation icon from the main display screen.
- Touch the Options icon at the top right of the display to configure the navigation system preferences.
- Touch the Where to? tab to enter the desired destination, or touch the star icon to select from the list of favorites.



When the Navigation panel is accessed, the screen displays a map with an indicator

referencing the current position of the vehicle.

Touch the icon at the bottom right of the display to toggle between centering the vehicle's position on the map, or showing the entire route.

The top of the display contains:

- Where to? tab
- Favorites menu
- Options menu
- Compass (top right of map)



Touch the Where to? tab at the top of the navigation display to access the destination screen. This screen displays options for:

- Manual address/place/category entry
- Recent destinations list
- Pre-programmed POI list

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Manual Destination Entry

1. From the Navigation screen, touch the Where to? button.

- 2. Touch the Search box to bring up the on-screen keypad.
- Type the address, place name or category (such as restaurants or hotels).
- 4. If there is more than one destination that matches your search, touch the desired option.
- 5. Press Go to begin navigation.

Favorite Destination Entry

- 1. From top of the Navigation screen, touch the star icon.
- 2. Select a location from the favorites list.
- 3. Touch the desired location, then press Go to begin navigation.

Recent Destinations/POI Entry

- 1. From the Navigation screen, touch the Where to? button.
- 2. For recent destinations: Below the search box, there will be a list of recent destinations. Scroll through this list to find the desired destination.
- For POI: Scroll through the POI categories on the right side of the screen. Choose the desired category, then scroll through the list of destinations.
- 4. Touch the desired destination, then press Go to begin navigation.



Navigation Screen

Once a destination has been selected, press Go to begin navigation. The navigation screen will display turn-by-turn directions on the left, and a map view of the route on the right.

While the navigation screen is active, the user can:

- Touch the icon at the bottom of the screen to toggle between centered and whole route views.
- Touch the Options menu to display traffic conditions and set navigation parameters (such as avoiding toll roads).
- Touch the button in the upper right hand corner to cancel the current navigational assistance.

PHONE

WARNING: For safety reasons, ensure that you do not become distracted from the task of driving, through use of any of these systems.



To utilize the phone feature a mobile phone must be connected to the system via Bluetooth (see Pairing a Phone). Once there is a paired phone in the vehicle, touch the phone icon on the main display screen to access the controls. Touching the phone icon pulls up the main phone display, including the keypad dialer and call history. At the top of the display, information from the connected phone is displayed, as well as the favorites menu. Use the Dialer tab to bring up the keypad, or the Contacts tab to access the contact list. The top right corner of the display contains the settings menu.

KEYPAD DIALER



To make a call using the keypad:

- 1. Touch the phone icon on the main display screen.
- 2. Enter the phone number.
- 3. Press the green button to place the call.

Numbers can also be selected from the list of recent calls. Touch the Favorites or Contacts tabs to access those lists.

CALL IN PROGRESS



While a call is in progress:

The screen will display the call information, based on the information stored in the connected phone, including the name, number and photo for the contact. The call in progress screen also offers a call duration display and a muting option.

To end a call from this screen, touch the red button at the bottom of the dialer.

ANSWERING CALLS



When receiving a call, touch Answer or Decline on the green mode bar at the top of the display.

The incoming call mode bar will appear regardless of which screen the system is currently displaying.

Calls can also be disconnected with the mode bar.

To switch to the call-in-progress screen, touch the phone icon on the left side of the mode bar.

PAIRING A PHONE

To use the Phone feature, a Bluetooth enabled phone must be connected to the vehicle. Follow the steps below to pair a phone.

Note: To pair an additional phone, access the Bluetooth Settings menu from the main phone display, then pick up the procedure at Step 4.



BLUETOOTH

To pair a phone via Bluetooth:

- 1. Touch the phone icon on the main display screen.
- The first time a phone is paired, a message will appear at the top of the screen asking if you would like to pair a phone;
- 3. Touch Yes.



4. Press "Pair Phone" to begin the pairing process.

The system will search for available devices. Ensure Bluetooth is enabled on your device, and set to discoverable.



- 5. If there is more than one available Bluetooth device, select the correct device from the list. The system will then begin to pair the phone.
- 6. Verify that the displayed pairing code on the Revero screen matches the one on the phone's display.
- 7. On the phone, select Revero to allow the phone to connect.
- Once the phone has paired, a mode bar will appear, indicating that the process is complete.

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After a moment, the phone dialer screen will appear. From here, the user can:.

• Touch the Home button to return to the main screen

MINIBAR



The bar that runs along the bottom of the display is called the MiniBar. Touch the center icon to access the main climate control screen. Touch the far right icon for volume control. The three icons to each side of the center icon are quick-controls for the climate control system, allowing the user to adjust the temperature and airflow without leaving the home screen.

CLIMATE CONTROL

Touch the half snowflake/half sun icon at the center of the MiniBar to access the main climate control screen. This screen contains options for all climate control settings. From the main screen the user can control the temperature and airflow for the following settings:

- Air conditioning (driver and passenger levels)
- Heating (driver and passenger levels)
- Ventilation (driver and passenger levels)
- Seat warmers
- Fan speeds
- Defrost

• Make a call



Climate control				
lcon	Description			
SYNC	The dual independent cabin control icon will be blue when the driver and passenger temperature control values are the same. When the icon is off (illustrated here), the control values are independent.			
$(\mathbf{g})(\mathbf{g})$	Seat warmer icons control the heat generated by the seat warmers. There are 4 settings: OFF, 1, 2, 3.			
Ģ	This is the climate control ON and OFF button.			
	Climate control system temperature adjustment.			
A/C	Air Conditioning system cools the cabin.			
<u> </u>	Heating system heats the cabin.			
9	Air circulation controls the flow of air for the cabin. The options are recirculation or outside air.			

TEMPERATURE



Touch the temperature setting value on the MiniBar to access the pop-up temperature control. Touch the + to raise the temperature or the - to lower it. The icon will display the chosen temperature. With the dual climate control system, the driver and passenger can input different temperatures.

FAN SPEED



The fan speed control is indicated by a number and a small fan illustration. Touching the icon will generate a pop-up speed control. Touch the + to raise the fan speed, or touch - to lower the fan speed. Fan speed is not an available dual climate control setting.

VENTILATION



Touch the Ventilation icon in the center of the right side of the MiniBar to select the desired airflow configuration. Ventilation is not an available dual climate control function.

DEFROSTERS



The defroster icons are located to each side of the main climate control icon. The left icon controls the main windshield defroster, while the right icon controls the rear window defroster. These icons do not bring up a pop-up menu, but are simply function buttons. Touching the defroster icon once turns it on, then touching it again turns it off. When the defroster is on, the icon is blue.

VOLUME CONTROL



Touch the speaker icon at the bottom right corner of the main display to bring up the volume controls. Pressing the desired level will move the indicator to that level and adjust the volume accordingly. Touch and hold the slider and slide it up or down to adjust the volume in increments. Press the Mute icon to mute the sound (icon will turn blue); press the mute icon again to return to the previous volume. The volume display will disappear if left untouched for five seconds.

USING THE SYSTEM

Note: The blower, heating and air conditioning systems are powered by the battery. Prolonged use will decrease the range of the vehicle in *STEALTH*.

AUTO CLIMATE CONTROL

The climate control system features automatic temperature and air distribution control and is programmed to maintain optimum levels of comfort within the vehicle in all but the most severe climatic conditions.

It is recommended that automatic climate control is selected as the normal operating mode.

Autoo Touch the icon to switch on automatic climate control then adjust the temperature to the desired temperature.

The system will then automatically adjust the heating, air conditioning, air distribution, blower speeds and air recirculation to maintain the desired temperature.

The air distribution and blower controls can be operated independently to override AUTO mode. If AUTO mode is overridden, the icon will no longer be highlighted. Press AUTO again to return to automatic mode.

Note: If the air distribution and blower controls are used independently, the system may not be able to maintain the set temperature.

BLOWER SPEED/TEMPERATURE CONTROL



Touch a point on the Slider to increase or decrease the desired blower speed between 0 and 10.



Touch a point on the Slider to set the desired interior temperature.

DUAL ZONE TEMPERATURE

SYNC

Touch the icon to switch between single zone and dual zone temperature control.



When dual mode is active, the temperature for the driver and passenger sides of the interior can be independently adjusted.

Touch a point, up or down on the slidebar to set the desired interior temperatures.

Small incremental changes are made when the slidebar + or - are selected.

Larger changes can be made by tapping on the temperature "slidebar scales."

SYNC CLIMATE CONTROL

When the SYNC feature is selected, the passenger's temperature setting will automatically match the driver's.

The SYNC feature is automatically canceled when the temperature setting is adjusted on the passenger side, or if the SYNC icon is selected

AIR CONDITIONING

Note: Air conditioning can be used on its own or in conjunction with the heating system.

Touch the icon for cool and A/C dehumidified air.



Adjust the temperature control to control the amount of cooling.

It is recommended that air conditioning is used throughout a journey, to control window fogging and odors.

Switching off air conditioning will reduce cooling performance; the amount of cooling available will be determined by the outside air temperature. However, the reduced load on the high voltage battery may improve vehicle range.

Note: Using the climate control system for prolonged periods with the air conditioning off may cause the windows to fog in certain climatic conditions.

ΚΛΡΜΛ

HEATING

Note: The heating system can be used on its own or in conjunction with the air conditioning system.

Touch the icon to operate the heating system and warm the air from the vents



Adjust the temperature control to control the amount of heating.

Note: Although the seat heaters consume energy from the high-voltage battery, they require less energy than the heating system and are an alternative way of keeping warm in the vehicle.

AIR DISTRIBUTION

Touch the respective air distribution icon to change the location at which air enters the interior of the vehicle.

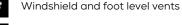


Face level vents



Face and foot level vents





Foot level vents



Defrost

Note: Only one air distribution setting can be selected at a time.

AIR RECIRCULATION



Touch the icon to activate air recirculation.

Air recirculation prevents air entering from the outside, and recirculates the air inside the vehicle.

This prevents the entry of traffic fumes. Air recirculation also significantly influences the dehumidifying and cooling performance of the air-conditioning system.

FRESH AIR

Touch the icon to switch from recirculation and to allow fresh air to be drawn into the vehicle from the outside

TEMPERATURE DISPLAY OPTION



OFF



Touch the icon to switch off the heating system, air conditioning and blower. Any air entering the vehicle through the vents will be dependent upon the vehicle speed.

WINDSHIELD DEFROSTER

Touch the icon to operate the windshield defroster. A blue indicator will be displayed on the icon when the defroster is operating.

To provide maximum air flow to the windshield, activating the defroster automatically adjusts the climate control settings as follows:

- Air distribution set to windshield vents.
- · Air conditioning is switched on.
- · Heating is switched on.
- Blower fan is switched on.

Touch the icon again to switch off the windshield defroster and return the system to its previous settings.

REAR WINDOW DEFROSTER

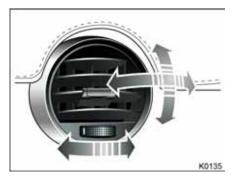
CAUTION: To avoid damage to the heating elements, do not attach labels to the rear window. Also, do not scrape or use abrasive materials to clean the inside of the rear window.

With the vehicle in Drive mode touch the icon to operate the rear window heater. A blue indicator will be displayed on the icon when the heater is operating.

The rear window heater will operate for a period of time before automatically switching off.

VENTILATION

Air is drawn into the vehicle through the grille in front of the windshield. Keep the grille clear of obstructions (leaves, snow, etc.).



Rotate the thumb wheel left or right to open and close the face level vents. Move the louvers up, down, or from side to side to direct the airflow

The outer face level vents can be directed onto the side windows to aid in defogging in cold weather.

Note: When you open the face level vents, airflow to the foot and windshield vents is reduced

CABIN AIR FILTER

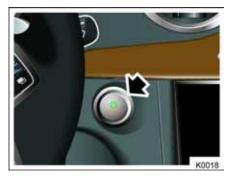
Your Revero has a cabin air filter installed that prevents pollen, industrial fall-out, road dust and other particles from entering the vehicle via the vents.

The cabin air filter must be replaced every 20,000 miles (32,000km). Failure to replace the air filter will result in reduced air flow into the vehicle.

OPERATING NOTES

- Heating is provided by a high voltage electric heater and cooling is provided by a high voltage all-electric air conditioning system. Both of these systems are located under the hood.
- In addition to cooling the passenger compartment, the air conditioning system also cools the high voltage battery coolant.
- In high ambient temperatures, the air conditioning system may be activated even if you have manually switched it off on the touchscreen. This is normal, with priority being given to cooling the high voltage battery to ensure that cell temperatures stay within a range that supports long life and efficient performance.
- For the climate control system to function efficiently, all windows should be closed, and the air intake vents free from ice, snow, leaves or other debris.
- To reduce the time for the vehicle to reach a comfortable temperature during hot weather, drive with the windows slightly open for two to three minutes after start-up.
- In very humid conditions, slight screen fogging may be experienced when the air conditioning system is turned on. This is a natural occurrence and will clear after a few seconds.
- Surplus water produced by the dehumidifying process is drained beneath the vehicle. This may result in a small pool of water forming when the vehicle is stationary and is not a cause for concern.

STARTING THE VEHICLE



The Start/Stop button is used to put the vehicle into Accessory and Drive modes.



Note: The Start/Stop button will only be operational if a valid key fob is detected within the vehicle.

ACCESSORY MODE



In Accessory mode, all the electrical features and controls, except the heating and air conditioning system, can be operated but the vehicle cannot be driven.

To put the vehicle in Accessory mode:

- 1. Ensure the key fob is inside the vehicle.
- 2. Make sure the brake pedal is NOT applied.
- 3. Press the Start/Stop button.
 - The vehicle enters Accessory mode and the indicator lights on the DIS illuminate briefly.

Note: Display functions are not available immediately, please allow the information screens to load and display. As with any personal computer or infotainment device several seconds are required to boot before the device is fully operational. When using navigation, always set the driver information system and touch screen views before driving.

4. The amber indicator light on the Start/Stop button will illuminate.

The brake pedal indicator light will illuminate in the DIS.

Note: If left in Accessory mode, the vehicle will automatically turn itself off after 10 minutes.

DRIVE MODE



In Drive mode, the vehicle's high voltage electrical system is engaged, allowing the vehicle to be driven.

To put the vehicle in Drive mode:

- 1. Ensure the key fob is inside the vehicle.
- 2. Depress the brake pedal.
- 3. Press the Start/Stop button.

TURNING OFF THE VEHICLE

To turn off the vehicle:

1. Ensure the P (Park) is selected.

2. From either the Accessory or Drive mode, press the Start/Stop button to turn the vehicle off.

Note: The vehicle cannot be put into Accessory mode if the vehicle is in motion.

EMERGENCY SHUT DOWN PROCEDURE

WARNING: The vehicle's electrical system powers the power steering pump, brake servo pump, anti-lock braking system and electronic stability control system. Shutting down the electrical system with the vehicle in motion will increase braking distances, as well as requiring greater effort to steer the vehicle, with a possibility of the wheels locking causing the vehicle to skid. Only enact this shutdown procedure in an emergency.

In an emergency situation, if you need to be able to shut the vehicle down while it is still in motion, the vehicle electrical system can be turned off by pressing the Start/Stop button three times in quick succession or by pressing and holding until the vehicle powers off.

KEY FOB NOT DETECTED

If the Start/Stop button is pressed and the key fob is not detected by the vehicle, a warning message will be displayed in the DIS. If you have the key fob and it is still not detected, use the keyless start backup procedure.

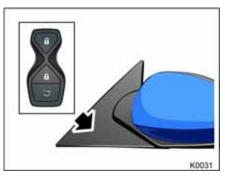
If the vehicle is in Accessory or Drive modes and the vehicle can no longer detect the key fob, an indicator light will illuminate and the warning message *"KEY FOB LEFT VEHICLE"* will be displayed on the DIS. This will be accompanied by a rapid chime.

Note: Always make sure you have the key fob with you before making a journey as you will be unable to restart the vehicle once it has been switched off.

KEYLESS START BACKUP PROCEDURE

If the vehicle has been unlocked using the emergency key blade or the key fob is not

detected by the vehicle, it will be necessary to use the keyless start backup to disarm the security system and start the vehicle.



 Hold the key fob next to the driver exterior side mirror mounting bracket with the buttons facing away from the vehicle

When the key fob is positioned in this area it will be recognized by the vehicle and a message will be displayed in the DIS.

Holding the key fob in position and depressing the brake pedal, press and release the Start/Stop button to put the vehicle in Drive mode.

Once the vehicle is in Drive mode, you no longer need to hold the key fob against the mirror bracket.

Note: If the key fob is still not recognized, or the vehicle fails to enter Drive mode, contact Karma Automotive or your local Karma Service Provider.

TYPE APPROVAL

FCC Warning Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

USA FCC ID:	AQ0005
Canada IC:	10176A-005
Model No.	A-0783G02

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

SELECTING A PROPULSION MODE



With the vehicle in Drive mode, press the required button to select a mode.

Note: If the READY indicator light flashes when selecting a mode, a fault has been detected. Try selecting the mode again; if the fault persists, contact your Karma Service Provider.

• P (Park)

With Park engaged, the propulsion unit is locked and the rear wheels cannot turn.

To select another mode when the vehicle is in Park, the vehicle must be in Drive mode and the brake pedal depressed.

Note: P (Park) is automatically engaged whenever a charging cable is connected to the charging port to prevent the vehicle being accidentally driven while still connected.

• R (Reverse)

Selectable whenever the vehicle is stationary or its forward speed is less than 30 mph (48 km/h).

• N (Neutral)

Allows the vehicle to be stationary without the propulsion unit being locked.

To select another mode when the vehicle is in N (Neutral) and moving at a speed less than 5 mph (8 km/h), you must press the brake pedal. At speeds

above 30 mph (48 km/h) you can only select the drive mode suitable for the current direction of travel.

• D (Drive)

Selectable whenever the vehicle is stationary or its speed is less than 30 mph (48 km/h) in reverse.

The DIS will show the currently selected mode and the button associated with the mode will also illuminate.

Note: Similar to a conventional automatic transmission, when you select D (Drive) or R (Reverse), the vehicle will move (creep) if you do not have the parking brake applied or the brake pedal depressed.

DRIVING MODES

Your Revero has three selectable drive modes: Stealth mode, Sport mode and Sustain mode. The currently selected drive mode is displayed on the DIS.

With the vehicle in Drive mode, the desired driving mode is selected using the selection paddles on the steering column.

Note: The vehicle will default to STEALTH mode if the electric range is greater than 0 miles. If the electric range is 0 miles, the vehicle will then default to SUSTAIN mode.

CAUTION: Do not drive through water 🔼 of an unknown depth. Besides being a possible safety hazard, driving through water deeper than 3 inches (7.5 cm) can cause internal combustion engine damage due to water ingestion through the air intake system. If you do not know the depth of water, do not drive through it. If possible place the vehicle in Stealth mode, shut the internal combustion engine off, this can help in prevent in water ingestion for any water crossing. If you are forced to enter standing/flowing water despite using best efforts to avoid it, drive very slowly (not to exceed 5 mph (8 kph) and do not stop in the water. If the internal combustion engine stalls in the water, do not attempt to restart it - have the vehicle towed out of the water and have the vehicle serviced to prevent any additional engine damage.

STEALTH, SPORT AND SUSTAIN MODES



In STEALTH driving mode, the vehicle is powered exclusively from the high voltage battery. When the charge level of the battery falls to approximately 15% (0 mile electric range), the vehicle will automatically switch to SUSTAIN driving mode.

In SPORT mode, the vehicle is powered by both the generator and high voltage battery. This provides more power to the traction drive motors and improves vehicle performance.

In SUSTAIN driving mode, the vehicle will use gasoline as the energy source, and sustain the charge level in the high voltage battery.

To change among STEALTH, SPORT and SUSTAIN driving modes, briefly pull the left-hand paddle towards you and release. Pull and release the paddle again to select the next available mode.

RESTRICTED PERFORMANCE

In the event when high a amount of wheel traction power is needed, such as climbing up a hill at highway speeds, if the vehicle displays a yellow hazard symbol or text of "restricted performance", the driver should enter SUSTAIN or SPORT MODE.

REGEN MODE

WARNING: It is recommended that you do not use SPORT mode on surfaces covered in snow or ice as this could adversely affect vehicle handling.

REGEN mode simulates the engine braking you would experience on a traditional vehicle when descending a hill, and increases the amount of energy generated through regenerative braking when the brake pedal is not pressed.

REGEN mode has three different levels which simulate different levels of engine braking.



To select REGEN mode 1:

The vehicle defaults to REGEN mode 1. The vehicle will experience little resistance and the DIS will indicate REGEN 1 in the display.

To select REGEN mode 2:

Briefly pull and release the paddle to select the next available REGEN mode.

To select REGEN mode 3:

Briefly pull and release the paddle again. The vehicle will have an increased feeling of drag while coasting and the DIS will indicate REGEN 3 in the display.

The REGEN modes circle around from REGEN 1, REGEN 2 and REGEN 3; pulling and releasing the REGEN paddle will select the next available REGEN mode in the sequence. Note: Holding the paddle does de-select the REGEN 2 or REGEN 3 selection and go back to REGEN 1.

GENERAL INFORMATION

WARNING: Driving through heavy rain or water can have an adverse effect on braking efficiency. Under such circumstances, It is recommended that you lightly apply the brakes intermittently, to keep the brakes dry.

WARNING: Do not rest your foot on the brake pedal while the vehicle is in motion unless you are applying the brake pedal.

Your Revero is equipped with an advanced electro-hydraulic brake control unit that combines the vehicle's conventional hydraulic brake system with its regenerative braking system to meet the requirements for slowing the vehicle.

The brake control module interprets the braking request and uses regenerative braking, conventional hydraulic braking or a combination of both as necessary.

Unlike conventional vehicles which have a vacuum operated brake servo to assist in the application of the brakes, A pump within the control unit pressurizes the brake fluid to apply the brakes. You may occasionally hear the pump when the system is operating. This is normal and not a cause for concern.

BRAKE

If the brake warning light illuminates while driving, accompanied

by the message, "Service Brakes," stop the vehicle as soon as safety permits and a have the cause investigated by your local Karma Service Provider.

In the event of a brake problem or a loss of vehicle power, the brake system can still be operated to bring the vehicle to a stop, but the brake pedal may be harder to push and the stopping distance may be longer.

ANTI-LOCK BRAKING SYSTEM (ABS)

WARNING: Always maintain an appropriate stopping distance from the vehicle in front of you. ABS cannot overcome the physical limitations of trying to stop the vehicle in too short a distance, cornering at too high a speed, or the danger of hydroplaning, i.e. where a layer of water prevents adequate contact between the tires and the road surface.

WARNING: Always drive with consideration for the current road. weather and traffic conditions.

The ABS is designed to prevent the wheels from locking while braking, thereby enabling steering control to be retained.

Under normal braking ABS will not be activated. However, if the braking force exceeds the available adhesion between tires and road causing the wheels to lock, then ABS will automatically come into operation.

The ABS monitoring system checks that all electrical components are working correctly as soon as the vehicle is put into Accessory mode, and also at frequent intervals during a journey.

The ABS warning light illuminates briefly as a bulb check when the vehicle is put into Accessory mode. If the light illuminates at any other time, the system has detected a fault and the ABS system has been shut down.

Note: The other functions of the braking system remain fully operational and are not affected by any loss of the ABS. However, braking distances may increase.

EMERGENCY BRAKING

WARNING: Do not pump the brake pedal: this will interrupt operation of the ABS and may increase braking distance.

In an emergency, apply full pedal effort even when the road surface is slippery. ABS will monitor the rotational speed of the wheels and vary braking pressure to each according to the amount of traction available, thereby ensuring that the wheels do not lock and that the vehicle is brought to a stop in the shortest possible distance. Steering control will be maintained no matter how hard you brake.

Note: On soft surfaces (powdery snow, sand or gravel), the braking distance required by the ABS may be greater than for non-ABS braking, even though improved steering would be experienced. This is because the action of locked wheels on soft surfaces is to build up a wedge of surface material in front which assists the vehicle to stop.

REGENERATIVE BRAKING

Whenever the vehicle is moving and your foot is off the accelerator, regenerative braking slows the vehicle and feeds energy back to the high voltage battery.

By anticipating your stops and simply removing your foot from the accelerator to slow down, you can take advantage of the energy gained from regenerative braking.



The power meter on the DIS provides realtime feedback on the level of regenerative braking, indicating the amount of energy being generated and fed back to the high voltage battery.

The amount of regenerative braking can vary depending on the current state of the battery. For example, you'll experience a reduction in regenerative braking if the battery is extremely hot or cold or if the battery is already charged to its maximum allowable level.

PARKING BRAKE



APPLYING THE PARKING BRAKE

With the vehicle stationary, pull the lever (arrowed) to apply the parking brake.



The indicator light on the DIS will illuminate.

Note: If the lever is operated while the vehicle is traveling, the park brake will be fully applied. The stop lamps will not illuminate. This function works even when the vehicle is shut-off.

RELEASING THE PARKING BRAKE

With your foot on the brake pedal, push the lever to release the parking brake.

The indicator light on the DIS will turn off.

With your foot on the pedal, pull the switch to engage the parking brake.

The indicator in the DIS should illuminate when the parking brake is engaged.

ERROR MESSAGES

WARNING: If an error is detected by the parking brake, never rely on the parking brake to hold the vehicle on a slope.

If an error is detected by the parking brake system, both the brake system and parking brake warning lights on the DIS will flash and a message will be displayed in the DIS.

Message	Action
Park brake error.	The system has detected an error. Refer problem to your Karma Service Provider as soon as possible.
Park brake cannot apply.	The parking brake cannot be applied. Refer problem to your Karma Service Provider as soon as possible.
Park Brake Cannot Release.	The parking brake cannot be released. Do not drive vehicle! Refer problem to your Karma Service Provider as soon as possible.
Calibration Required. Apply Foot and Park Brake.	Apply the foot brake and then apply the parking brake to calibrate the system.

When the 12 Volt disconnect procedure is performed, or the #10 fuse has been removed from the fuse panel, a text message will appear in the DIS and the parking brake icon will be flashing alerting the driver to re-calibrate the parking brake.

To re-calibrate the electronic parking brake, perform the following:

- Place the vehicle in system Ready mode. Pull the parking brake button, then push the button.
- 2. The icon will stop flashing and the text message will disappear.

EMERGENCY USE

CAUTION: Driving the vehicle with the parking brake applied, or repeated use of the parking brake to slow the vehicle, may cause serious damage to the brake system.

In an emergency, with the vehicle traveling more than 2mph (3km/h), pulling and holding the parking brake lever gives a gradual reduction in speed.

Note: If the vehicle is moving and the parking brake is applied, the system will automatically release the parking brake after 10 seconds to prevent damage to the system and the message "PARK BRAKE CANNOT APPLY" is displayed.

The parking brake must be reapplied to continue slowing the vehicle.

ELECTRONIC STABILITY CONTROL

ELECTRONIC STABILITY CONTROL (ESC)

WARNING: No electronic system can remove the need for safe driving practices. Although the Electronic Stability Control can help to maintain control of the vehicle, it cannot prevent any accident which may result from the vehicle turning at too high a speed or from careless/dangerous driving techniques.

Note: By default ESC is switched on every time you start your Revero.

The Electronic Stability Control (ESC) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the ESC system helps to perform the following functions:

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a drive wheel on the same axle that is not slipping.
- Controls brake pressure and traction motor output to reduce drive wheel slip based on vehicle speed.
- Controls brake pressure at individual wheels and traction motor output to help the driver maintain control of the vehicle in the following conditions:
- Understeer
- Oversteer

When the ESC system is operating the indicator light on the DIS will flash to indicate it is in use.

TURNING OFF ESC

CAUTION: Driving with ESC deactivated can put additional loads on the brakes. It is recommended that ESC is switched on for normal driving conditions.

In some driving conditions it may prove helpful to deactivate ESC to improve mobility. These conditions include:

- Starting on a loose surface, such as gravel or snow.
- Driving in deep snow, sand or mud.

• Rocking the vehicle out of a hole or deep rut.





The ESC OFF indicator light will illuminate on the DIS.

CRUISE CONTROL

WARNING: Do not use cruise control in traffic conditions where a constant speed cannot easily be maintained or on winding or slippery road surfaces.

WARNING: It remains the driver's responsibility to always ensure that a safe speed is maintained within the speed limit, taking account of traffic and road conditions.

WARNING: Cruise control should not be used in ice and snow conditions.

Cruise control enables you to maintain a constant road speed without using the accelerator pedal. This is particularly useful for any journey where a constant speed can be maintained for lengthy periods.

Note: It is important to remember that it is possible for the vehicle to increase speed when traveling downhill. This may result in the vehicle speed exceeding the set speed.



Cruise control is controlled by the switches on the steering wheel.

ENGAGING CRUISE CONTROL

To engage cruise control, the vehicle's speed must be between 20 mph (32 km/h) and 90 mph (145 km/h).

- 1. Accelerate until your desired cruising speed is reached.
- 2. Press the thumb wheel to the left (SET) position and release.

3. An indicator light on the DIS illuminates when cruise control is operating.

If required, vehicle speed can be increased through normal use of the accelerator. When the accelerator pedal is released, road speed will return to the previously set cruising speed.

Note: The minimum set and resume speed is 20 mph (32 km/h).

CANCELING CRUISE CONTROL

Cruise control can be canceled by pressing the switch on the steering wheel. The indicator light on the DIS will turn off.

Note: Cruise control is also canceled when the brake pedal is pressed, *REGEN* mode is selected, ESC is turned Off, or if the vehicle's speed falls below 20 mph (32 km/h).

RESUMING CRUISE CONTROL

• To resume cruise control at the previously set speed, press the thumb wheel to the right (RES).

Note: Cruise control will only be resumed if the vehicle's speed is more than 20 mph (32 km/h).

CHANGING THE CRUISING SPEED

The vehicle's set cruising speed can be adjusted as follows:

• To decrease the set speed, press and hold the thumb wheel to the left.

To decrease the speed in smaller increments move the thumb wheel to the left and release. Each operation of the thumb wheel will decrease the speed by 1 mph (2 km/h).

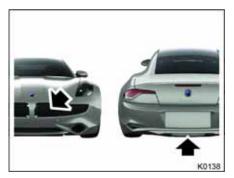
 To increase the set speed, press and hold the thumb wheel to the right.
 To increase the speed in smaller increments move the thumb wheel to the right and release. Each operation of the thumb wheel will increase the speed by 1 mph (2 km/h).

EXTERIOR SOUND

Unlike a traditional vehicle powered by an internal combustion engine, electric vehicles are inherently quiet at low speeds.

Although this potentially provides a large benefit by reducing the levels of traffic noise from passing vehicles, sound also acts as a warning to other road users. It signifies the presence of a vehicle, its speed, direction and acceleration.

To help reduce this safety risk, your Revero has been equipped with an exterior sound system to alert pedestrians and other road users to your presence.



Two speakers are located on the exterior of your Revero, one under the front of the vehicle and another under the rear.

USING THE SYSTEM

Note: The exterior sound system is controlled automatically by the vehicle. There is no need for driver intervention.

When the vehicle is put into Drive mode, the exterior sound system is switched on. A pulsing sound will be heard from the exterior speakers.

As the vehicle's speed increases, the pitch of the sound increases until the vehicle's speed reaches approximately 30 mph (50 km/h). At this speed the volume of the sound will fade out and the exterior sound is turned off.

The exterior sound will remain off until the vehicle's speed is reduced to

approximately 28 mph (45 km/h). At this speed, the exterior sound is switched on and the sound will fade in. As the vehicle slows, the pitch of the sound will decrease.

Note: The exterior sound system remains active even when the vehicle is in [P] Park.

ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS)

WARNING: Lane Departure Warning (LDW) and Forward Collision Warning (FCW) features are for guidance purposes only and are only designed for providing audio and visual alerts.

WARNING: These are warning features only, the vehicle cannot steer itself or brake on its own; the driver is solely responsible for safely driving the vehicle.

WARNING: These features are camera-dependent and the accuracies may be impacted by visibility and many other factors. The driver should not depend on them at any time. If the ambient lighting is bright enough that the driver cannot see, then the camera will not be able to "see" either.

The Karma Revero is equipped with a front camera - mounted in the interior, on the windshield - which is responsible for detecting and warning the driver of unintended road lane departures and forward collisions with surrounding vehicles. This new system has been named the Advanced Driver Assistance System (ADAS).

You can enable/disable these features through the Touch panel on the Infotainment Unit.

- My Karma>Settings>Safety>Lane departure warning.
- My Karma>Settings>Safety>Forward collision warning.

The features of the ADAS are not operational under certain conditions. This can happen in many scenarios, like vehicle speed below the required speed or poor visibility due to rain, etc.

LANE DEPARTURE WARNING (LDW)



Lane Departure Warning is only available at speeds of 44 to 112 mph (60 to 180 km/h).

The driver will not receive any feedback from the LDW until a vehicle speed of 44 mph is achieved. The driver will then receive warnings when attempting to change lanes.

The system will be automatically disengaged when wipers are active. This means LDW is not be available on a rainy day.

LANE DEPARTURE WARNING

- 1. Same direction
 - For example: When the left turn signal is selected, and the vehicle turns left, no warning will be given.
- 2. Short indicator
 - For example: If the turn signal has been activated, but no lane change is detected after a period of time, the system automatically cancels the turn signal.
 - No warning should sound if the vehicle turns left within 5 seconds after the indicator has turned off.
- 3. Wrong indicator
 - For example: When the left turn signal is selected, but the vehicle turns right, the system will activate an audible and visual warning.

- 4. No indicator
 - For example: If the vehicle drifts left without a turn signal selected, the system will activate an audible and visual warning.

LANE DEPARTURE SENSITIVITY

The user can select different sensitivity through the touch panel.

- 1. Early
 - Audio and visual warnings are triggered when the wheel is too close to the lane mark.
- 2. Normal
 - Audio and visual warnings are triggered when the wheel is touching the lane mark. This is the default setting for LDW.
- 3. Late
 - Audio and visual warnings are triggered when the wheel is driving on the lane mark.

FORWARD COLLISION WARNING (FCW)

Forward Collision Warning is only available at speeds ranging from 12.5 to 50 mph (20 to 80 km/h). Activation of the FCW system can be done through the CIU.



The yellow FCW icon provides early warning that action may be required to avoid a collision. There is no audio sounds to assist with the alert.



The red FCW icon with a soft audio sound provides warning that immediate action is required to avoid a forward collision. The action required might be applying brakes or swerving to avoid collision.

In the event the red FCW icon with a hard audio sound occurs, without immediate action you will be involved in a forward collision.

The system will be automatically disengaged when the wipers are activ.e That means FCW is not available on a rainy day.

SENSITIVITY SETTINGS

There are 3 level of FCW sensitivities. The major difference between them is the "risky" level threshold

- 1. Early
- 2. Normal
- 3. Late

PARK DISTANCE CONTROL (PDC)

WARNING: The PDC system may not detect moving objects such as children and animals, until they are dangerously close. Always maneuver with caution and always use your mirrors.

CAUTION: The PDC system is for guidance only and is not intended to replace the driver's visual checks for obstructions when maneuvering. The sensors may not be able to detect certain types of obstructions (for example, narrow posts, small objects close to the ground and some objects with dark, non-reflective surfaces).

The PDC system alerts the driver to any obstructions that need to be avoided while maneuvering at low speeds.

The PDC is active only if the gear position in on Drive or Reverse. When in the Neutral position, the activation of the front/ rear sensors depends on the previous state. the frequency of the intermittent tone increases.

CAUTION: Systems which use the same frequency band as the parking sensors may cause irregular tones to be emitted.

When the distance between the sensors and the obstruction is less than about 1 foot (30 cm) the tone becomes continuous.

Note: PDC is automatically switched off when the vehicle's forward speed exceeds 7.5 mph (12 km/h).

CLEANING THE SENSORS

CAUTION: When washing the vehicle, avoid aiming high pressure water jets directly at the sensors. Do not use abrasive materials or hard/sharp objects to clean the sensors.

If the sensors are obscured by dirt, ice or snow their performance may be impaired.



The vehicle is equipped with eight ultrasonic sensors, four on the front bumper and four on the rear bumper.

The range of the front sensors, as well as the rear corner sensors, is approximately 3 feet (90 cm), while the two rear center sensors have a range of approximately 5 feet (1.5 m).

You are made aware of any obstruction, within range, by an intermittent tone. As the vehicle moves closer to the obstruction,

REAR VIEW CAMERA

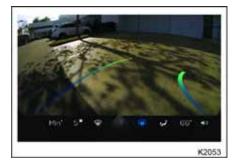
WARNING: It remains the driver's responsibility to detect obstacles and estimate the vehicle's distance from them when reversing. Some overhanging objects or barriers, which could possibly cause damage to the vehicle, may not be visible by the camera.

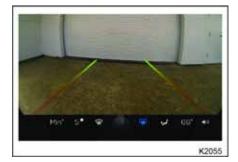
The rear view camera is located above the rear license plate.

When R (Reverse) is selected, the touchscreen will automatically display the view from the camera.









CLEANING THE CAMERA

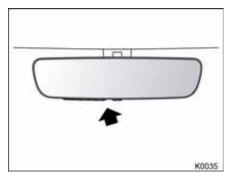
CAUTION: Do not use chemical based cleaners or harsh abrasives. These can scratch the surface and permanently damage the camera lens.

For the best picture, always keep the rear view camera clean, and do not cover the camera lens.

To clean the camera lens, use a soft cloth moistened with water and car shampoo to remove any build up of dirt on the surface. Use a soft dry cloth to dry the surface and polish the lens.

HOMELINK® TRANSMITTER

WARNING: Do not use this HomeLink® transmitter with any garage door that lacks safety stop and reverse features. A garage door opener which cannot detect an object in the path of a closing door and then automatically stop and reverse the door does not meet current safety standards. Using a garage door opener without these features increases the risk of serious injury or death.



The HomeLink® universal transmitter is built into the rear view mirror and provides a convenient way to replace up to three hand-held transmitters with a single built-in device.

PROGRAMMING A DEVICE

WARNING: When programming your HomeLink® transmitter, you will be operating the garage door or gate. Be sure that people and objects are out of the way, to prevent potential harm or damage.

- 1. Make sure the vehicle is in Accessory mode.
- 2. If you have previously programmed your HomeLink® transmitter, proceed to step 3. Press and hold the two outer buttons for approximately 20 seconds. When the indicator light (arrowed)

begins to flash, release the buttons. Do not hold the buttons for longer than 30 seconds.

This initializes the HomeLink® transmitter and erases previous settings from all three channels.

Note: Do not perform this step when programming additional hand-held transmitters.

- 3. Decide which one of the three channels you want to program.
- 4. Position the end of your hand-held transmitter 1-3 inches (25 75 mm) away from the buttons.
- Simultaneously press and hold both the mirror button you want to program and hand-held transmitter button. The indicator light will flash slowly and then rapidly after the mirror successfully receives the frequency signal from the hand-held transmitter.

Release both buttons.

- Press and hold the programmed garage door opener button and observe the indicator lamp.
 - If the indicator is continuous, programming is complete and your device should activate when the garage door opener button is pressed and held for approximately 1 to 2 seconds and then released.
 - If the indicator lamp blinks rapidly for two seconds and then glows steadily, proceed with the following instructions for Programming rolling code device equipment.

PROGRAMMING ROLLING CODE DEVICE EQUIPMENT

Note: The assistance of a second person may make the following steps quicker and easier. Once the button has been pressed there are only 30 seconds in which to complete Step 3.

 At the garage door opener receiver (motor head unit) in the garage, locate the learn or smart button/switch.

The name of the button or switch may vary between manufacturers.

- 2. Press and release the learn or smart button.
- 3. Return to the vehicle and firmly press and hold the programmed garage door opener button for two seconds and release.
- 4. Repeat the press, hold, release sequence three times to complete the programming process.
- 5. The garage door opener in the rearview mirror should now activate the rolling code device.

REPROGRAMMING A SINGLE BUTTON

To program a device to a previously trained button:

- 1. Press and hold the desired preprogrammed garage door opener button for at least 20 seconds, but no longer than 30 seconds, until the indicator light begins to flash.
- Without releasing the rear-view mirror button, position the hand-held transmitter approximately 1-3 inches (25 - 75 mm) away from the transceiver in the rear-view mirror, keeping the indicator light in view.
- 3. Carry out Step 3 of Programming a Device. See "Programming a Device" on page 88.

ENTRY GATE/CANADIAN PROGRAMMING

The technology of some entry gates requires you to press and re-press (cycle) the hand-held transmitter button every two seconds during programming.

Continue to press and hold the desired rear-view mirror button while you cycle your hand-held transmitter until the indicator light flashes rapidly.

INFORMATION AND ASSISTANCE

CAUTION: For security purposes, it is recommended that all programmed transceiver buttons are erased before the vehicle is sold or disposed of.

For information on the range of available compatible products or accessories, or for assistance, you should contact your Dealer.

If you would like additional information on the Homelink Universal Transceiver, compatible products or to purchase other accessories, contact your Dealer or you can also contact the Homelink helpline at 1-800-355-3515 or www.homelink.com.

Note: Keep the original transmitter for future use or programming procedures if, for example, you purchase a new vehicle.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment

ACCESSORY POWER OUTLETS

The power socket is suitable for 12V accessories requiring up to 10A or a maximum of 125 watts.

Note: The accessory power sockets operate when the vehicle is in Accessory or Drive mode.

FRONT 12V POWER OUTLET

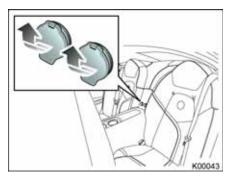


The front power outlet is located in the center console storage compartment and is always powered.

Note: Extended use of this outlet while the vehicle is off may drain the 12V battery.

REAR ACCESSORY POWER OUTLETS

Note: The rear accessory power outlets only operate when the vehicle is in Accessory or Drive mode.

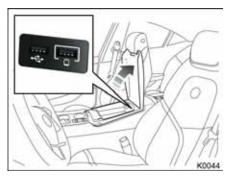


A USB and a 12V power socket are located between the rear seats.

Note: The 12V power outlet and the USB charging port (5V) have hinged covers to protect them when not in use.

The rear USB port is for charging purposes only and cannot be used to play music.

USB CONNECTIONS

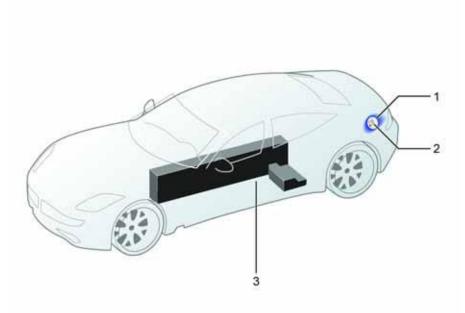


The center console has two USB ports. Both USB ports can be used for charging and playing music.

WARNING: Never read text messages or enter text on your cell phone while driving, even if you are temporarily stopped. Wait until you are in a safe location away from traffic, put the vehicle in Park, and then read and type text on your cell phone.

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CHARGING SYSTEM COMPONENTS



K0154

- 1. Charge port
- 2. Charge coupler
- 3. High voltage battery

GENERAL INFORMATION

Your Revero uses an electric propulsion system to drive the vehicle at all times. To extend the operating range of the vehicle, and depending on driving mode, an internal combustion engine will drive a generator to produce electricity as required.

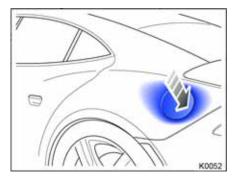
The high voltage battery is the primary source of electrical energy and a generator powered by a gasoline engine is the secondary source.

Your Revero has three operating modes: STEALTH, SPORT and SUSTAIN. See "Driving Modes" on page 76.

CHARGING PORT



The charging port is located on the left-hand side of the vehicle. An arrow on the battery gauge points to that side of the vehicle.



To open the charging port cover, press the rear edge of the cover and release. The cover will unlatch and gently spring open.

To close the charging port cover, press firmly in the center until the cover latches in place.

USING THE CONVENIENCE CHARGING CORD

WARNING: Using the charging cord with a worn or damaged wall outlet may cause burns or start a fire. Periodically check the wall plug and charging cord while the vehicle is charging. If the plug feels hot, unplug the charging cord and have the outlet replaced by a qualified electrician.

ELECTRICAL OUTLETS

Ideally, the AC out let should be grounded with a charging voltage of 240V AC and on a dedicated circuit rated at 16A (at 3kW) or 32A (at 6kW). That means there should be no other major appliances connected to the same circuit.

Wall outlet types:



NEMA 5-15: Regular home use plug, three prong.

NEMA 14-50: Max charge is 32 amps, traditionally called RV plugs.



NEMA L6-30: Industrial grade wall connector with a twist lock. This is the plug that comes with the car.

Note: The 14-50 and 5-15 will come in a kit as additional infrastructure plugs.

Note: The plug has an internal temperature sensor that may change the charge rate automatically as the temperature or battery SOC increases. (The amperage may change).

If a non dedicated circuit is used, the current rating of the wall outlet circuit breaker could be exceeded and cause it to trip or open. If you are having issues using the charging cord at a particular wall outlet, try the following:

- Use another wall outlet if available.
- Remove other loads on the same circuit.
- Charge the vehicle in reduced level mode using the charge rate switch on the travel charger.

EXTENSION CORDS

WARNING: Use of an extension cord may increase the risk of electric shock or other hazards.

The use of extension cords should only be used if charging with 120V AC. All outlets and charging accessories should be Residual Current because of limited access to a power outlet; please observe the following guidelines:

- The wall outlet should be RCD protected with a resettable circuit breaker at the outlet.
- The extension cord should be RCD protected with a resettable circuit breaker at the terminating end of the connector.
- The extension cord should be 12 or 14 gage, and must be a 3 pin conductor.
- The extension cord should be rated for outdoor usage.

Note: The travel charger automatically detects the amount of current it can draw from the wall outlet. Using an extension cord with a long cord or smaller gage conductors may prevent the vehicle from charging.

WARNING: Improper use of portable electric vehicle charge cords may cause a fire, electrical shock, or burns, and may result in damage to property, serious injury, or death.

WARNING: Do not use extension cords, multi-outlet power strips, splitters, grounding adapters, surge protectors, or similar devices.

ΚΛRΜΛ

WARNING: Do not use an electrical outlet that is worn or damaged, or will not hold the plug firmly in place.

WARNING: Do not use an electrical outlet that is not properly grounded.

WARNING: Do not use an electrical outlet that is on a circuit with other electrical loads.

CHARGING THE VEHICLE

WARNING: Improper use of portable electric vehicle charge cords may cause a fire, electrical shock, or burns, and may result in damage to property, serious injury, or death.

WARNING: Do not use extension cords, multi-outlet power strips, splitters, grounding adapters, surge protectors, or similar devices.

WARNING: Do not use an electrical outlet that is worn or damaged, or will not hold the plug firmly in place.

WARNING: Do not use an electrical outlet that is not properly grounded.

WARNING: Do not use an electrical outlet that is on a circuit with other electrical loads.

CAUTION: The connector end of the charging cord is heavy and may damage the vehicle's paint if dropped when connecting or disconnecting.

Note: The vehicle should be plugged into a charger when the ambient temperature is at or below 32°F (0°C).

Note: When using an EV charging station that offers a delayed charging feature, actual charging may not begin for up to 1 hour after the unit is programmed to begin.

The high voltage battery can be charged either from the internal combustion engine, or through the electrical grid. When charging from the electrical grid, there are three levels:

Level 1: Refers to 120 volts AC charging through a standard household wall outlet.

Level 2: Refers to 240 volt AC charging through a professionally installed home charging station or a commercial charging station.

DC fast charging: Refers to 480 volt AC input that is converted to directly charge the high voltage battery with DC.

Level 1 charging is the most common and most vehicles come with a travel charger. This travel charger eliminates the need for a charging station to be installed at the vehicle owner's home. One end of a Level 1 charger is a standard three-prong household plug. The other end is a standard J1772 high voltage vehicle charge connector and provides 2 to 5 miles of range per hour of charge.

Level 2 charging utilizes a standard high voltage vehicle charge connector and is more commonly found in residential charging, commercial charging, public parking and places of employment. Level 2 chargers provide 10 to 20 miles of range per hour of charge. Level 2 can charge at 3.3 kW of 6.6 kW. This depends on wall outlet capabilities.

DC fast charging utilizes a J1772 Combo connector. DC fast charging provides an approximate range of 40 miles in 30 minutes or less.

Note: To optimize the performance of the High Voltage Battery, Karma Automotive recommends that the vehicle is charged to full capacity using the Level 1 travel charger (120 volt AC charging) at least once a week. This will help monitor and actively control battery cell balancing.

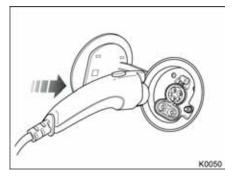
Note: Allow the high voltage battery to fully discharge before recharging. This will exercise the battery and help maintain battery health.

 Position the vehicle so that the charging cord can easily reach the charging port on the vehicle. Select Park [P] from the drive selection button, then press the Start/Stop button to take the vehicle out of Drive mode.

The READY indicator on the DIS will turn off and the doors will unlock to indicate the vehicle is ready for charging.

Note: If the cord is connected, the vehicle will automatically switch to Park [P].

3. Open the charging port cover.



- 4. Locate a wall outlet (Standard US 120V, 16A).
- 5. Insert charger plug into wall outlet.
- 6. Insert charge coupler into the charge port.

7.While the vehicle is charging, the charging indicator light on the DIS will illuminate and the battery charge level indicator will begin to rise.

Note: During charging or in high ambient temperatures, the cooling fans and coolant pumps may automatically switch on for a period of time to cool the cells in the battery. The fans and pumps may be audible when in operation. This is normal and not a cause for concern.



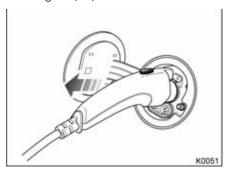
Accessory mode



Drive mode



8. When the vehicle is fully charged, the DIS will be solid green with a percent of charge displayed.



9. Press the button on the charging connector to release the locking clip, then remove the connector from the charging port.

Note: If you try to put the vehicle into Drive mode with the charging cord attached, the charging indicator on the DIS will flash to remind you to disconnect the charging cord.

10. Close the charge port cover.

WARNING: If the cable is severed, frayed, or damaged, contact your local Karma Service Provider.

WARNING: Use the appropriate plug for the outlet. All of the ground pins should be in normal operating condition.

EMERGENCY RELEASE CABLE

In the event the charge connector latch fails to release, use the emergency manual release cable.

Be sure to end the charging session if the charger is still connected to a charging source.

- 1. Gain entry to the trunk cargo area.
- 2. Pull the black connector on the left side of the cargo panel.
- 3. The charge connector will be manually unlocked.

After the latch has been released, you will have to push the cable back into the socket and push the black ending cap until it locks in the original resting place.

EV CHARGE STATION

DC FAST CHARGING

A DC charging cable is available at most charging stations and provides a higher current connection. This significantly decreases charging time compared to charging from a household AC wall outlet.

Note: The charging cable will be locked if the vehicle is locked during DC Fast Charging.

Note: For further details on the Electric Vehicle Charge Station, please contact your Karma Retailer.

CHARGING TIME

The amount of time it takes to fully charge the vehicle is dependent upon the remaining battery charge level and the available electrical supply (amperage and voltage).

DC Fast charging will be able to charge the high voltage battery in 25 minutes, but will automatically stop charging at 90% State of Charge (SOC).

As a guide, the following are an approximate time to charge the high voltage battery from fully depleted.

Charge type	Power	Estimated time
AC Level 1	120V @ 16A (15-100%)	10 hours
AC Level II	240V @ 32A (15-100%)	3 hours
DC Quick Charge	480V@110A (15-90%)	25 minutes

Note: Charge time is also impacted by both the ambient air temperature and the temperature of the vehicle's high voltage battery. If the temperature is outside the optimal range, the vehicle's heating and cooling system will operate to warm or cool the high voltage battery accordingly. This will consume some of the energy used for charging.

COLD WEATHER CHARGING CONSIDERATIONS

CAUTION: Do not allow the vehicle to remain in temperature extremes for long periods without being driven or plugged in.

If the vehicle will be dormant during periods of low temperature (32 $^{\circ}F/0 ^{\circ}C$), it is recommended that the vehicle be plugged in and charging.

During an AC charge session, the charging system may operate fans and pumps that

result in sounds from the vehicle while it is turned off.

The charging system may also run the HVAC, pumps, and fans to manage the thermal conditions of the high voltage battery during a DC Fast charge session.

Note: In cold weather conditions, ice may form around the charge port door. The charge port door may not open on the first attempt. Remove ice from the area and attempt to open the charge port door.

Note: Keep the vehicle plugged in, even when fully charged, in order to keep the battery temperature prepared for the next drive. This is important when outside temperatures are extremely cold.

SAFETY PRECAUTIONS

WARNING: Gasoline vapors are highly flammable, have a low flash point and are explosive, especially in confined spaces. Avoid exposing the vapor to any potential sources of ignition as the resulting fire and explosion may cause serious injuries and/or death.

WARNING: Never fill the vehicle's fuel tank while the vehicle is charging or connected to a charging station. An accidental spark could cause an explosion or fire resulting in serious injury or death.

WARNING: Switch off the engine when refueling, as it is both a source of extreme temperatures and electrical sparks. Failure to do so may cause a fire or explosion.

WARNING: During refueling, switch off any personal electronic devices such as mobile phones, or music players. They have the potential to trigger an explosion or a fire.

WARNING: Do not smoke, use an open flame or cause sparks while refueling. The resulting fire and/or explosion may cause serious injury or death.

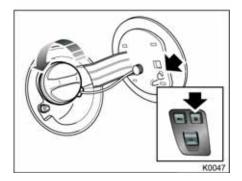
WARNING: Only use containers specifically designed for carrying fuel and always remove them from the vehicle to fill them. Failure to do so may result in spillage and cause a fire.

WARNING: Do not overfill the fuel tank. Overfilling may cause spillage when the vehicle is driven. Spillage may also occur if the fuel expands in high ambient temperatures.

After refueling the vehicle, regardless of drive mode selected, the engine will be forced to carry out maintenance on the Evaporative Emissions System. The engine must run near idle for approximately five minutes. The duration of the required engine run time will be based on the environmental conditions and the amount of fuel added. The hotter the weather, and the more fuel added to the tank, the longer the Evaporative Emissions System maintenance will take.

FUEL FILLER

The fuel filler is located on the righthand side of the vehicle. An arrow on the fuel gauge points to that side of the vehicle.



When your Revero is stationary and unlocked, press the fuel filler cover release button located on the driver's side dashboard closing panel.

The fuel filler cover will gently spring open. Twist the fuel filler cap counter clockwise to release.

A strap secures the fuel filler cap to the vehicle to prevent loss. A holder is provided on the door to store the cap while refueling.



When replacing the fuel filler cap, tighten it until it clicks three times. Failure to do so may cause the

indicator icon on the DIS to illuminate due to increased evaporative emission levels.

RUNNING OUT OF FUEL

CAUTION: Avoid running out of fuel. Doing so can cause damage to the vehicle's engine, fuel pump and emission control systems.



When the remaining fuel reaches approximately 10% of the maximum fuel level,

the fuel gauge display will turn yellow. If the fuel level falls to approximately 3%, the low fuel warning icon will turn red.

FUEL SPECIFICATION

CAUTION: Do not use leaded fuels, lead substitutes or fuel additives. Doing so can cause damage to the engine, fuel and emission control systems.

CAUTION: Only use high quality fuel as using a lower quality can cause damage to the engine, fuel and emission control systems.

CAUTION: Fuel system cleaning agents should not be used as they may be harmful to fuel system components on your Revero.

CAUTION: If the fuel tank is filled with the wrong type of fuel, do not start the engine. It is essential that you seek qualified assistance. Running the engine can cause serious engine and fuel system damage.

The correct fuel specification for your Revero is shown on the inside of the fuel filler cover.

Only use Premium Unleaded fuel. Unleaded fuel is essential for proper operation of the emission control system.

Even a very small quantity of leaded fuel will damage your vehicle's emission control system and could invalidate the emissions warranty.

ALTERNATIVE FUELS

ETHANOL FUELS

CAUTION: Do not use E85 fuels (85% Ethanol content). If E85 fuels are used serious engine and fuel system damage will occur.

Fuels containing up to 10% ethanol may be used. Ensure the fuel has an octane rating no lower than that recommended on the inside fuel filler cover.

METHANOL FUELS

CAUTION: Do not use fuels that contain methanol. The use of fuels containing Methanol will seriously damage fuel system components. Damage caused by using this type of fuel will not be covered under the vehicle warranty.

REFORMULATED GASOLINE

CAUTION: Karma Automotive does not recommend the use of reformulated gasolines that contain the additive MMT (Methylcyclopentadienyl Manganese Tricarbonyl). Fuels containing MMT can reduce spark plug life and the performance of the emission control system.

FUEL TANK CAPACITY

Avoid the risk of running out of fuel and never intentionally drive the vehicle when the fuel gauge indicates that the tank is empty.

Total tank	10 U.S. gallons
capacity	(38 liters)

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GENERAL INFORMATION

The safety, reliability and performance of your car will depend partly on how well it is maintained. Maintenance is the owner's responsibility and you must ensure that the appropriate maintenance is performed when required and according to the recommendations specified by Karma Service Provider.

SCHEDULED MAINTENANCE

The scheduled maintenance requirements for your Revero are shown in the Warranty and Service Booklet supplied in the owner's literature pack.

Most of the necessary maintenance and servicing of your Revero will require specialist knowledge or equipment, and should preferably be entrusted to a Karma Service Provider.

FLUID REPLACEMENT

Brake fluid requires changing every 50,000 miles (80,000 km) or 5 years, whichever comes sooner.

Coolant must be changed every 150,000 miles (240,000 km) or 5 years, whichever comes sooner.

Note: These fluids will be changed by a Karma Service Provider at the service nearest the conclusion of each period of time.

VEHICLE SERVICE HISTORY

When you have your Revero serviced at a Karma Service Provider, your service information is recorded in the Karma Global Service History database. It can be accessed by any Karma Service Provider a great convenience if you relocate or need to have your vehicle serviced while traveling.

OWNER MAINTENANCE

WARNING: Any significant or sudden drop in fluid levels, or indication of uneven tire wear, should be rectified immediately.

In addition to the scheduled maintenance, a few simple checks must be carried out more frequently. You can carry out these checks yourself and advice is given on the pages that follow.

DAILY CHECKS

- Check the battery charge level.
- Check all exterior lights, horn, turn signals, wipers and washers.
- Check the operation of the brakes, including the parking brake.
- Check the operation of the seat belts.
- Look for fluid deposits underneath the vehicle that might indicate a leak.

WEEKLY CHECKS

• It is recommended that the high voltage battery be charged once a week using a Level 1 AC charge (16 amp) to exercise the battery and accurately balance the battery cells.

MONTHLY CHECKS

- Check the engine oil level. Refer to "Checking the oil level" on page 107.
- Check the brake fluid level. Refer to "Checking the fluid level" on page 108.
- Check the power steering fluid level. Refer to "Checking the fluid level" on page 109.
- Check the coolant level. Refer to "Battery coolant level" on page 110
- Check the washer fluid level. Refer to "Wipers and Washers" on page 113.
- Check condition and pressure of each tire. Refer to "Tire Care" on page 130
- Check operation of the air conditioning system. Refer to "Climate Control" on page 68.

SAFETY

WARNING: If the vehicle has been driven recently, do not touch any exhaust and cooling system components until they have cooled.

WARNING: Never leave the engine running in an unventilated area exhaust gases are poisonous and extremely dangerous.

WARNING: Keep your hands and clothing away from rotating components and cooling fans. Some fans may continue to operate even when the vehicle is OFF.

WARNING: Remove metal wrist bands and jewelry, before working in the engine compartment.

WARNING: When filling-up fluid reservoirs, position a cloth around the neck of the reservoir to absorb any fluid spillage to avoid the possibility of a fire.

POISONOUS FLUIDS

Fluids used in motor vehicles are poisonous and should not be consumed or brought into contact with open wounds. These fluids include; battery acid, antifreeze, brake and power steering fluid, gasoline, engine oil and windshield washer additives.

For your own safety, always read and obey all instructions printed on fluid container labels.

USED ENGINE OIL

Prolonged contact with engine oil may cause serious skin disorders, including dermatitis and cancer of the skin. Always wash thoroughly after contact.

It is illegal to pollute drains, water ways or soil. Use authorized waste disposal sites to dispose of used oil and other chemicals.

FUEL AND EMISSION SYSTEMS COMPONENTS

EMISSION CONTROL

Your Revero is designed with various items of emission and evaporative control equipment, designed to meet specific territorial requirements. You should be aware that unauthorized replacement, modification or tampering with this equipment by an owner or repair shop, may be unlawful and subject to legal penalties.

In addition, engine settings must not be tampered with. These have been established to ensure that your vehicle complies with stringent exhaust emission regulations. Incorrect engine settings may adversely affect exhaust emissions, engine performance and fuel consumption, as well as causing high temperatures, which will result in damage to the catalytic converter and the vehicle.

FUEL SYSTEM

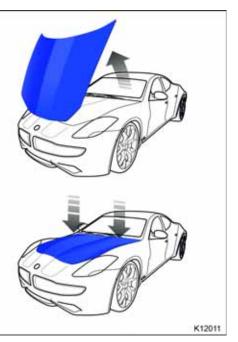
WARNING: Under no circumstances should any part of the fuel system be dismantled or replaced by anyone other than a suitably qualified vehicle technician. Failure to comply with this instruction may result in fuel spillage with a consequent serious risk of fire.

WARNING: Keep sparks and open flames away from the engine compartment.

WARNING: Wear protective clothing, including, where practicable, gloves made from an impervious material.

OPENING AND CLOSING THE HOOD





WARNING: Never work on a vehicle that is plugged in. Always remember to unplug the vehicle before working under the hood or the underside of the vehicle.

OPENING THE HOOD

WARNING: Make sure that the hood is in the fully open position before working in the engine compartment. In windy conditions, you may need to secure the hood to prevent the hood from being closed by the wind.

1. Pull the (recessed) hood release handle, located on the lower edge of the dashboard closing panel.

- 2. Raise the hood.
- 3. Ensure the hood is in the fully open position.

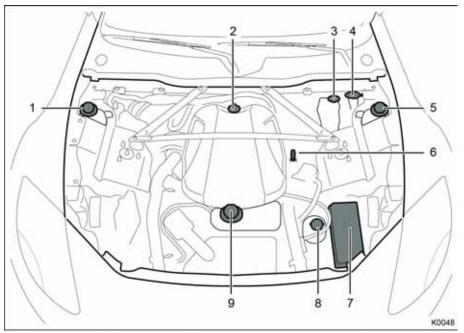
CLOSING THE HOOD

- 1. Lower the hood to the closed position.
- 2. Press down firmly on each side of the hood (see illustration) to engage the locks.

Note: You will hear the locks click into place.

CAUTION: Before driving, check that the locks on both sides of the hood are fully engaged by attempting to lift the hood. There should be no movement.

ENGINE COMPARTMENT OVERVIEW



- 1. Coolant reservoir Electric drive components
- 2. Engine oil filler cap
- 3. Brake fluid reservoir
- 4. Windshield washer reservoir
- 5. Coolant reservoir Engine
- 6. Engine oil level dipstick
- 7. Engine compartment fuse box
- 8. Power steering reservoir
- 9. Coolant reservoir Battery

WARNING: Before working in the engine compartment, ensure that the vehicle is OFF and the key fob is outside the vehicle.

WARNING: Your Revero uses high voltage. System components can be hot to touch during and after starting and when the vehicle is shut off. Be careful of both the high voltage and the high

temperature. Obey all labels that are attached to the vehicle.

WARNING: The vehicle's high voltage system has no user serviceable parts. Disassembling, removing or replacing high voltage components, cables or connectors can cause severe burns or electric shock that may result in serious injury or death. High voltage cables are colored orange for easy identification.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

ENGINE OIL

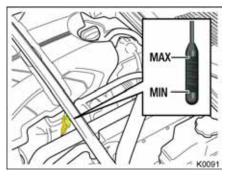
CAUTION: It is recommended that the oil level is checked monthly. If any significant or sudden drop in oil level is noted, seek qualified assistance immediately.

CAUTION: Your Revero's warranty may be invalidated if damage is caused by the use of improper engine oil. Low quality or obsolete oils do not provide the protection required by modern, high performance engines. Failure to use an oil that meets the required specification could cause excessive engine wear, a buildup of sludge and deposits and increased pollution. It could also lead to engine failure.

CAUTION: Do not use oil additives of any type, as engine damage could occur. Use only specified lubricants.

CHECKING THE OIL LEVEL

Note: If it is necessary to check the oil level when the engine is hot, switch off the vehicle and let it stand for five minutes to allow the oil to drain back into the sump.



- 1. Withdraw the dipstick and wipe the blade clean with a lint free cloth.
- 2. Fully re-insert the dipstick and withdraw again to check the oil level.

Never allow the oil level to fall below the lower mark on the dipstick.

As a general guide, if the level on the dipstick:

• Is nearer to the upper mark, add no oil.

- Is nearer to the lower mark than the upper, add one pint (half a liter) of oil.
- Is below the lower mark, add two pints (one liter) of oil and re-check the level after a further five minutes.

ADDING ENGINE OIL

CAUTION: Overfilling with oil could result in severe engine damage. Oil should be added in small quantities and the level re-checked to ensure that the engine is not overfilled.



- 1. Unscrew the oil filler cap.
- 2. Add the recommended engine oil to maintain the level between the MIN and MAX marks on the dipstick. See "Approved Fluids and Capacities" on page 112.
- 3. Check the oil level again after five minutes.
- Once the correct level is achieved, replace the filler cap and securely tighten by hand.
- Clean up any oil spilled during toppingup.

WARNING: Engine oil contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

BRAKE FLUID

WARNING: Brake fluid is highly toxic - keep containers sealed and out of the reach of children. If accidental consumption of fluid is suspected, seek medical attention immediately.

WARNING: If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.

WARNING: Brake fluid is highly flammable. Do not allow brake fluid to come into contact with open flames or other sources of ignition (e.g. a hot engine).

WARNING: Seek qualified assistance immediately if brake pedal travel is unusually long or if there is any significant loss of brake fluid. Driving under such conditions could result in extended stopping distances or complete brake failure.

WARNING: Do not drive the vehicle with the fluid level below the MIN mark.

WARNING: Brake fluid contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.See California Proposition 65 Warning 0227.

Check the fluid level monthly. The level should be checked more frequently in high mileage conditions.

The fluid level may drop slightly during normal use, as a result of brake pad wear, but should not be allowed to drop below the **MIN** mark.



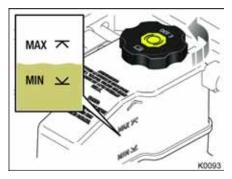
If the quantity of fluid in the brake reservoir drops below the recommended level, an or in the DIS will illuming to

indicator lamp in the DIS will illuminate.

Note: If the indicator lamp illuminates while the vehicle is being driven, stop the vehicle as soon as safety permits by gently applying the brakes. Check and fill the fluid reservoir if necessary.

CHECKING THE FLUID LEVEL

Check the fluid level with the vehicle standing on level ground.



The level of fluid can be seen through the translucent body of the reservoir. The fluid level should be between the MIN and the MAX marks.

FILLING UP THE BRAKE RESERVOIR

CAUTION: Brake fluid will damage painted surface. Soak up any spillage with an absorbent cloth immediately and wash the area with a mixture of car shampoo and water.

CAUTION: Only use new fluid from an airtight container. Fluid from open containers, or fluid previously bled from the system, will have absorbed moisture, which will adversely affect performance, and must not be used.

- Clean the filler cap with a clean, dry cloth before removing, to prevent dirt or moisture from entering the reservoir.
- 2. Remove the filler cap.
- Fill the reservoir using an approved brake fluid until the fluid level is between the MIN and MAX marks. See "Approved Fluids and Capacities" on page 112.
- 4. Replace the filler cap.

POWER STEERING FLUID

WARNING: Power steering fluid is highly toxic - keep containers sealed and out of reach of children. If accidental consumption of fluid is suspected, seek medical attention immediately.

WARNING: If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.

WARNING: Do not spill the fluid onto a hot engine - a fire may result.

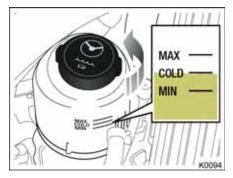
WARNING: Power steering fluid contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

CAUTION: Seek qualified assistance immediately if there is a sudden noticeable drop in the fluid level.

CAUTION: If fluid loss is slow, the reservoir may be filled to the upper level mark to enable the vehicle to be driven to a repair facility for inspection. However, we do recommend you seek qualified assistance before driving the vehicle.

CHECKING THE FLUID LEVEL

Check the fluid with the vehicle OFF, standing on level ground and the system cold. Ensure that the steering wheel is not turned after stopping the engine.



The level of fluid can be seen through the translucent body of the reservoir. The fluid level should be between the MIN and the MAX marks.

FILLING UP THE POWER STEERING RESERVOIR

CAUTION: It is imperative that the steering system does not become contaminated in any way. Always use new fluid and clean the area around the filler neck, both before removing the filler cap and after topping up. Never return drained fluid to the system.

CAUTION: Power steering fluid will damage painted surfaces. Soak up any spillage with an absorbent cloth immediately and wash the area with a mixture of car shampoo and water.

- Clean the filler cap before removing to prevent dirt from entering the reservoir.
- 2. Remove the filler cap.
- Fill the reservoir using an approved power steering fluid until the fluid level is between the MIN and MAX marks. See "Approved Fluids and Capacities" on page 112.
- 4. Replace the filler cap.

COOLANT

WARNING: Never remove filler caps when the system is hot, as the reservoir will be pressurized. Coolant and steam can escape rapidly when the cap is removed, causing injury.

WARNING: Antifreeze is highly flammable. Do not allow antifreeze to come into contact with open flames or other sources of ignition (e.g. a hot engine) - a fire may result.

WARNING: Unscrew the filler cap slowly, allowing the pressure to escape before removing completely.

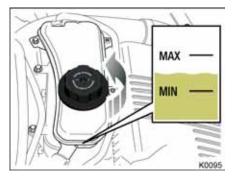
WARNING: Engine coolant contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

Your Revero is unique in that unlike a traditional vehicle, it has three separate cooling systems to cool the engine, electric drive components and the high voltage battery.

The coolant levels for each reservoir should be checked monthly. The levels should be checked more frequently in high mileage conditions. Always check the level when the system is cold.

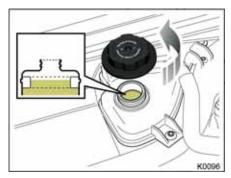
The coolant levels for the low temperature and the high temperature reservoir bottles should be filled to the molded tab seen inside the bottle.

BATTERY COOLANT LEVEL



The level of fluid can be seen through the translucent body of the reservoir. The fluid level should be between the MIN and the MAX marks.

ELECTRIC DRIVE COMPONENTS AND THE ENGINE COOLANT LEVELS



To check the coolant level, the filler cap must be removed.

WARNING: Place your hand on the lid of the coolant reservoir. If it feels hot to the touch, do not attempt to open the container. Severe burns may result. Only proceed to open the container if the container is warm to the touch.

The level of fluid must be in the mid level of the molded tab. If the level of coolant falls below the tab, the system must be filled with the approved coolant specified by Karma.

FILLING UP THE COOLANT RESERVOIRS

CAUTION: If persistent coolant loss is noticed, seek qualified assistance immediately.

Fill the reservoir to the upper level indicator mark using only a 50% mix of water and approved antifreeze. See "Approved Fluids and Capacities" on page 112.

Note: In an emergency, and only if the approved antifreeze is unavailable, fill the cooling system with clean water, but be aware of the resultant reduction in freeze protection.

Ensure the cap is tightened fully after refilling is complete by turning the cap until the ratchet cap clicks.

WASHER FLUID

WARNING: Some windshield washer products are flammable, particularly in undiluted concentrations. Do not allow windshield washer fluid to come into contact with open flames or sources of ignition.

WARNING: If the vehicle is operated in temperatures below 4°C (40°F), use a washer fluid with frost protection. In cold weather, failure to use a windshield washer fluid with frost protection could result in impaired vision and an unsafe driving condition.

WARNING: Washer fluid contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

CAUTION: Body panels may suffer discoloration as a result of windshield washer fluid spillage. Take care to avoid spillage, particularly if an undiluted or high concentration is being used. If spillage occurs, wash the affected area immediately with water.

The washer reservoir supplies both the windshield and headlamp washer jets.

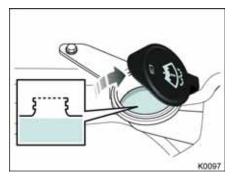
Check and fill up the reservoir level monthly or more frequently in high use conditions.

If the quantity of fluid remaining in the washer reservoir drops to less than one liter, a message will be displayed on the touchscreen diagnostic screen.

Operate the washers periodically to check that the nozzles are clear and properly directed.

FILLING UP THE WASHER RESERVOIR

Note: National or local regulations may restrict the use of Volatile Organic Compounds (VOCs) which are commonly used as antifreeze agents in washer fluid. A washer fluid with limited VOC content should be used only if it provides adequate freeze resistance for all climates in which the vehicle is operated.

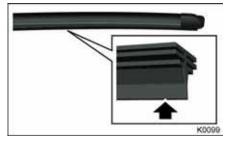


- Clean the filler cap before opening to prevent dirt from entering the reservoir.
- 2. Open the filler cap.
- Fill the reservoir with an approved fluid until the fluid is visible just below the filler neck. In cold climates, always fill up with windshield washer fluid to prevent freezing.
- 4. Install the filler cap.

APPROVED FLUIDS AND CAPACITIES

Fluid	Specification	Capacity
Engine oil	SAE 5W/30 meeting specification Dexos II, ACEA A5, ILSAC GF-5 or API SN/Resource Conserving. Karma Automotive recommends Mobil 1 AFE 0W30.	5 qt (4.7 liters)
Brake fluid	You must use CCI B070 type brake fluid. You can request either Karma P/N C131125610000 or GM P/N 88863461.	
Power steering fluid	Pentosin CHF11S or CHF202	1.8 qt (1.7 liters)
Coolant - Engine	50/50 mix of DEX-COOL Extended life Antifreeze and clean drinkable water - preferably distilled water. Karma Automotive recommends Havoline DEX- COOL or a coolant meeting specification GM 6277M.	12.7 qt (12.0 liters)
Coolant - Battery	50/50 mix of DEX-COOL Extended life Antifreeze and clean drinkable water - preferably distilled water. Karma Automotive recommends Havoline DEX- COOL or a coolant meeting specification GM 6277M.	3.7 qt (3.5 liters)
Coolant - Electric drive components	50/50 mix of DEX-COOL Extended life Antifreeze and clean drinkable water - preferably distilled water. Karma Automotive recommends Havoline DEX- COOL or a coolant meeting specification GM 6277M.	12.7 qt (12.0 liters)
Washer fluid	Any good quality windshield washer fluid.	4.5 qt (4.3 liters)
A/C Refrigerant	R134a. Karma Automotive recommends KLEA 134a refrigerant. Note: If any oil needs adding to the system, only use an oil meeting ND 11 specification.	1.41 lb. (0.64 kg)
Differential oil	75W/90 synthetic axle lubricant meeting specification GM 9986115.	2.6 qt (2.5 liters)

CHECKING THE WIPER BLADES



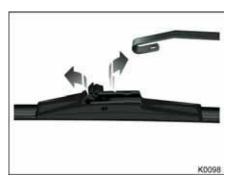
Only use cleaning products which have been approved for use on automotive glass and rubber. Inappropriate products may cause damage.

Periodically check and clean the wiping edge of the wiper blade. Clean the blade edge by wiping with a soft cloth or sponge, using warm soapy water.

Also, check the blade rubber for cracks, splits and roughness. If any damage is found, replace the blade immediately to prevent damage to the glass.

REPLACING THE WIPER BLADES

Replace the wiper blades if they are worn or damaged. Damage can be caused by extreme dusty conditions, sand, salt, heat, sun, snow, and ice.

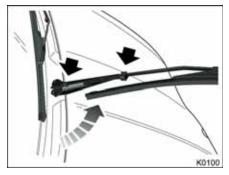


- 1. Release the locking lever securing the wiper blade to the wiper arm.
- 2. Lift the wiper arm away from the windshield.

- 3. Squeeze the locking feature on the blade to allow removal of the wiper blade.
- 4. Slide the wiper blade from the wiper arm and remove.

To install the new blade, position the new assembly on the wiper arm and close the locking lever to retain the wiper blade. Make sure the locking lever is securely closed.

WASHERS



If a windshield washer becomes blocked, use a thin strand of wire to clear any blockages from the nozzle.

Note: The headlamp washers operate with every fifth operation of the windshield washer. If you have any problems with the headlamp washers, please consult a local Karma Service Provider.

CLEANING THE EXTERIOR

It is illegal to pollute drains, rivers and waterways. Some cleaning products contain chemicals that are hazardous to the environment. Used toxic chemicals must be disposed of at authorized waste disposal sites only. Always take precautions to prevent fluids from spilling.

HAND WASHING

CAUTION: Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.



In order to maintain the appearance of your vehicle, observe the following:

- Do not wash the vehicle using hot water.
- Do not use detergents or dish washing liquid.
- In hot weather, do not wash the vehicle in direct sunlight.
- Do not aim water hoses directly at window, door or hood seals, or through wheel apertures onto brake components.

Use a hose to flush grime and grit from the bodywork before washing.

Only wash the bodywork using cold or lukewarm water containing a good quality wash and wax shampoo. After washing, rinse with clean water and thoroughly wipe dry with a chamois. Do not allow cleaning agents to dry on the finish.

AUTOMATIC CAR WASHERS OR PRESSURE WASHER

CAUTION: Karma Automotive recommends that you hand wash your vehicle. Do not use an automatic car washer or pressure washer as these may damage your vehicle's paint finish, solar roof, or other components.

Note: Vehicle or paint damage caused by using an automatic car washer will not be covered under the vehicle warranty.

WHEELS

CAUTION: Do not use chemical based wheel cleaners or chrome polish compounds, as these can damage the finish of the wheel.

Clean with warm, fresh water containing a good quality wash and wax shampoo. Thoroughly rinse the wheels to remove any residue.

CLEANING THE UNDERSIDE

During winter months if salt has been used on the roads, use a hose to wash the underside of the car. Flush away accumulations of mud in those areas where debris easily collects (wheel arches and panel seams, for example).

REMOVING TAR SPOTS

Use denatured alcohol to remove tar spots and stubborn grease stains from paint. After cleaning, immediately wash the area with soapy water to remove all traces of alcohol.

CLEANING THE SOLAR ROOF

Clean the solar roof with a soft cloth and a mild solution of soap and water, or car shampoo. Do not scrape the glass or use any abrasive cleaning fluid.

If you notice any damage on the solar roof, please contact your local Karma Service Provider for advice.

UNDERHOOD CLEANING

CAUTION: Never use a pressure washer or a steam cleaner to clean components in the engine compartment, as it may damage critical seals on high voltage electrical components.

Note: Vehicle or paint damage caused by using a pressure washer will not be covered under the vehicle warranty.

POLISHING THE BODY

CAUTION: Do not use cutting pastes, color restoration compounds, or polishes containing harsh abrasives. These can scratch the surface and permanently damage the paintwork.

CAUTION: Chrome polish, or other abrasive cleaners, must not be used on the vehicle's brightwork.

To preserve the cosmetic appearance of the body, occasionally treat the paint surfaces with an approved polish containing the following properties:

- Very mild abrasive to remove surface contamination without removing or damaging the paint.
- Filling compounds that will fill scratches and reduce their visibility.
- Wax to provide a protective coating between the paint and the elements.

PAINT DAMAGE AND REPAIR

Regularly inspect the paintwork for damage. Any stone chips, fractures or deep scratches in the paint/bodywork should be repaired promptly. Bare metal will corrode quickly, and if left untreated, can result in expensive repairs.

Treat chips and scratches to the paint using a paint touch-up pen. Use the touchup pen after washing but before polishing or waxing.

More extensive repairs to the body should only be carried out by a facility approved by Karma Automotive. Contact your local Karma Service Provider for a list of approved body repair facilities.

USING A CAR COVER

CAUTION: Never use a car cover when the vehicle is plugged in, doing so can prevent the battery from being adequately cooled during charging.

To preserve the cosmetic appearance of the body when the vehicle is not being used, you may want to use a car cover. Only a Karma Automotive approved car cover should be used.

CLEANING THE INTERIOR

GENERAL CLEANING

CAUTION: Avoid using solvents (including alcohol), bleach, citrus, naphtha, silicone based products or additives on interior components as these can damage the appearance of the material.

To maintain the look and appearance of the interior of your vehicle, the interior should be inspected and cleaned frequently.

It is recommended that for general cleaning, materials and surfaces should be cleaned using a non solvent based cleaning (wet) wipe (e.g. a baby wipe), and a microfiber cloth.

If possible, try to wipe up spillages and clean marks as they happen. This will reduce the need for more expensive cleaning in the future.

Note: It is advisable to test all cleaners on a concealed area before use.

GLASS AND MIRRORS

The windshield, rear window and mirror glass should only be cleaned using soapy water and a soft cloth. This will avoid damaging the reflective surface of the mirror and heating elements in the rear window.

CLEANING THE DIS AND CIU SCREENS

The DIS coverglass has an anti-reflective coating, and should be treated with care. Abuse of the glass may result in removal of the coating, abnormal color uniformity, scratches, or cracks.

The safest way to clean the glass is with a clean microfiber cloth and water.

Note: Windex comes is different varieties. Pay attention to the ammonia content.

AIR BAG MODULE COVERS

WARNING: Air bag covers should only be cleaned using a slightly dampened cloth/cleaning wipe. Any substance which enters the air bag could prevent correct deployment.

WARNING: Any damage, or cracks on an air bag cover should be referred to a Karma Service Provider for inspection.

PLASTIC MATERIALS

Clean heavily soiled plastic surfaces using warm water and a non-detergent soap, then wipe clean with a soft cloth.

CHROME/METAL SURFACES

CAUTION: Do not use metal polish, abrasive cleaners or hard cloths to clean chrome/metal surfaces as these can damage the surface finish.

Clean chrome surfaces using a soft cloth, warm water and a non-detergent soap. Wipe the surface dry using a microfiber cleaning cloth.

Lightly polish the surface using a spray furniture polish applied with a soft cloth. Polish using a linear motion along the surface and do not press too hard.

LEATHER

CAUTION: Some materials/fabrics are prone to dye-transfer which can cause discoloration of lighter colored leathers. Affected areas should be cleaned as soon as possible using a cleaning wipe (such as a baby wipe).

To prevent ingrained dirt and staining, inspect the seat upholstery regularly and clean every one to two months, as follows:

- Wipe off fine dust from the seat surfaces using a clean, damp, noncolored cloth. Change frequently to a clean area of cloth, to avoid abrasive action on the leather surface. Avoid over-wetting.
- If this is not sufficient, use a non solvent based cleaning wipe containing aloe or lanolin (such as a baby wipe).

Note: Using soap or commercially available leather cleaners/conditioners is not recommended as this will dry out the leather.

CARPETS

Clean with warm water and a nondetergent soap. Avoid over-wetting the area.

For heavily soiled areas, use a diluted upholstery cleaner.

SEAT BELTS

WARNING: Do not allow any water, cleaners, or fabric from cloths to enter the seat belt mechanism. Any substance which enters the mechanism may affect the performance of the seat belt in an impact.

Extend the belts and clean with warm, soapy, fresh water only. Do not use any type of detergent or chemical cleaning agent. Allow the belts to dry naturally while extended, preferably away from direct sunlight.

TOUCHSCREEN AND DIS

Clean the touchscreen and DIS using a damp cloth/cleaning wipe. Do not use cleaning compounds or solutions.

FLOOR MATS

WARNING: To avoid potential pedal interference that may result in a collision or injury, ensure that the driver's floor mat is securely retained.

WARNING: Never place another floor mat on top of the driver's floor mat.

The use of genuine Karma floor mats can extend the life of your Revero carpet and make it easier to clean the interior. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

- To remove the floor mats, lift up on the polished lock buttons on the floor mats while lifting up the rear mat section.
- 2. Maneuver the floor mat to release it form the floor hook.

REINSTALLATION

- Slide floor mat in and lock the mat to the upper floor hook behind the brake pedal.
- 2. Lower the rear section and press the polished lock buttons unto their pins.

VEHICLE STORAGE

WARNING: Always wear appropriate eye protection when working with the 12-volt battery. The battery contains acid, which is both corrosive and poisonous.

WARNING: During normal use, the 12-volt battery emits explosive hydrogen gas - ensure sparks and naked lights are kept away from the battery.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

BEFORE STORING THE VEHICLE

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. WASH HANDS AFTER HANDLING. See California Proposition 65 Warning 0227.

- 1. Store the vehicle with the high voltage battery with a minimum 20 mile EV range.
- The vehicle can be connected to an external 110v/220v charger during storage. The charger will automatically shut off when the HV battery is fully charged.
- Store the vehicle in an environment between 14°F (-10°C) and 122°F (50°C). Storing the vehicle at extreme temperatures can cause damage to the high voltage and 12 volt batteries and should be avoided.
- 4. Inflate the tires to 45 psi for storage purposes only. This will help reduce flat spots from developing.

WARNING: Over-inflating a tire could cause the tire to rupture and you or others could be injured. Be sure to read and follow the tire sealant and compressor kit instructions and inflate the tire to its recommended pressure. Do not exceed the recommended pressure.

 Verify mechanical keys will unlock and open the passenger side door using the mechanical lock. Note: If the 12 volt battery becomes discharged, the only way to open the doors will be to use the mechanical lock cylinder on the passenger side front door.

- 1. Place the vehicle in Park [P] and DO NOT apply the parking brake.
- Turn the HVAC system ON for five minutes and set the vent setting to Recirculation mode. This will fully lubricate the seals and internal components and prevent dust from being able to enter the passenger compartment.
- 3. Make sure the windows are closed and turn Off the HVAC system.
- 4. Verify the key FOBs are not in the vehicle.
- Press the Start/Stop button to take the vehicle out of system Ready mode and power down the high voltage system.
- 6. Wait for car to go to sleep, approximately 1 minute.
- 7. Connect an approved Absorbed Glass Mat (AGM) compatible battery maintainer to prevent it from discharging.

Note: Standard battery maintainers can overcharge and cause damage to the 12 volt AGM battery used in the Karma and shorten its lifespan.

STORING A VEHICLE FOR LONGER THAN FOUR WEEKS

If storing for two weeks or less, disconnecting the 12 volt auxiliary battery is not necessary.

Long-term storage over three weeks will require the 12 volt battery and solar panel fuse to be disconnected.

A battery maintainer is required to maintain the 12 volt battery voltage. Standard battery maintainers can overcharge and cause damage to the 12 volt AGM battery used in the Karma and shorten its lifespan.

In preparation for storage, it is recommended that the HVAC system is turned ON for five minutes and set the vent setting to Recirculation mode. This will fully lubricate the seals and internal components and prevent dust from being able to enter the passenger compartment.

Note: If storing for two weeks or less, disconnecting the 12 volt auxiliary battery is not necessary.

- 1. Inflate the tires to 45 psi for storage purposes only. This will help reduce flat spots form developing.
- 2. Verify mechanical keys will unlock and open the passenger side door using the mechanical lock.

Note: If the 12 volt battery becomes discharged, the only way to open the doors will be to use the mechanical lock cylinder on the passenger side front door.

- 1. Place the vehicle in Park [P] and DO NOT apply the parking brake.
- 2. Turn the HVAC system ON for five minutes and set the vent setting to Recirculation mode.
- 3. Make sure the windows are closed and turn Off the HVAC system.
- 4. Verify the key FOBs are not in the vehicle.
- Press the Start/Stop button to take the vehicle out of system Ready mode and power down the high voltage system.
- 6. Wait for car to go to sleep, approximately 1 minute.
- Disconnect the 12 volt battery negative

 c) cable connector under the hood to
 prevent the battery from becoming
 discharged.
- Disconnect the Solar Roof fuse #10 from the engine compartment fuse panel.
- Disconnect the 12 volt main connector located under the hood, on right fender.
- 10. Wait 30 seconds.
- Connect an approved AGM compatible battery maintainer to prevent it from discharging.

Note: Standard battery maintainers can overcharge and cause damage to the 12 volt AGM battery used in the Karma and shorten its lifespan.

BRINGING THE VEHICLE OUT OF STORAGE

- You may need to use the mechanical key to open the right front door to gain entry into the vehicle.
- 2. Open the hood and reconnect the negative (-) 12 volt battery cable.
- Connect a high voltage charger if necessary to bring the high voltage battery to a 20 mile range.
- Depress the brake pedal and press the Start/Stop button to place the vehicle in system Ready mode.

Note: If the HV battery SOC is low or if the 12 volt battery has been disconnected, the engine may start to maintain the HV battery SOC or for normal diagnostic purposes. Ensure there is enough fuel in the gas tank to run for 30 minutes and that the storage location is properly ventilated.

- Keep the vehicle in system Ready mode for 30 minutes to charge the 12 volt auxiliary battery.
- Calibrate the parking brake by applying and then releasing the parking brake.
- 3. Run the Air Conditioning for five minutes to properly lubricate all components.
- Connect the high voltage charge connector to begin a charge session until the high voltage battery reaches a minimum of a 20 mile range.
- 5. Inflate the tires back to the specified pressures.
- 6. Disconnect the high voltage charger.
- 7. Drive the vehicle, use the brakes normally; stopping from 30 mph at least 20 times to prevent rust build up on the brake rotors and to prevent unwanted brake vibrations from rust build up.

REPLACING A FUSE

WARNING: Always make sure the affected electrical circuit is switched off and the vehicle is OFF, before replacing a fuse.

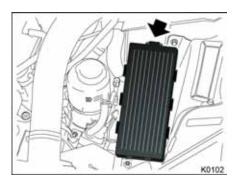
CAUTION: Only use Karma Automotive approved replacement fuses of the same rating and type, or fuses of matching specification. Using an incorrect fuse may result in damage to the vehicle's electrical system and can result in a fire

CAUTION: If the replacement fuse blows after installation, the system should be checked by Karma Automotive or your local Karma Service Provider.

Identify the fuse protecting the affected circuit - using the label on the inside of the fuse box cover, or as shown on the following pages - and pull to remove. A break in the wire inside the fuse indicates that the fuse has blown.

Note: Karma Automotive recommends that owners do not remove or replace relays. Failure of any of these items should be investigated by a qualified technician.

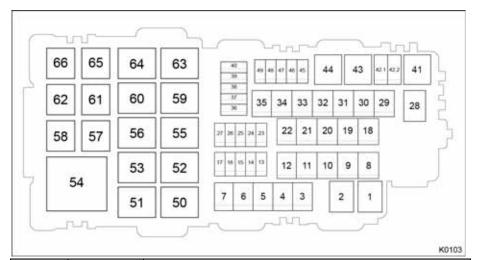
ENGINE COMPARTMENT FUSE BOX



Release the plastic cover by pressing the tab arrowed.

The fuse values and locations and the circuits protected are shown on the plastic cover.

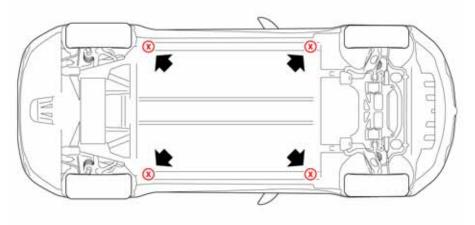
FUSE SPECIFICATIONS



Circuit protected Fuse Rating 50 A Electronic brake control 1 2 50 A Radiator fan control 3 30 A Windshield wipers 30 A 4 Rear window defrost 5 20 A Fuel pump relay Smart window control - right hand side 6 30 A 7 20 A Front power point and front USB 8 30 A Driver's power seat 9 40 A Power supply KL30 (Body 2) SPBC & HVAC 10 30 A 11 20 A HCU to Coolant pump C 12 Smart window control - left hand side 30 A 13 10 A Powertrain 14 30 A Seat module 15 30 A HV Battery (BECM) 15 A Airbag module 16 17 30 A Passenger seat control 18 20 A Coolant pump B - rear High beams & LH, RH door 19 50 A 20 40 A KL 30 Body 1

Fuse	Rating	Circuit protected
21	40 A	KL 30 security
22	30 A	KL 30 Interior lighting
23	15 A	AC, HVAC & PRNDL
24	15 A	FT / RR inverter
25	10 A	RLY 41, 46
26	10 A	HCU feed
27	15 A	PT relay feed
28	60 A	Antilock Braking System (ABS) EBCM Mot batt feed
29	30 A	Antilock Braking System (ABS) EPB module
30	30 A	RT chiller fan
31	30 A	Main ECM PT R53 feed
32	30 A	Rear heated seats
33	20 A	Coolant pump A - Rear
34	40 A	Amplifier
35	30 A	Feeds fuses 40, 45, 46, 47, 49
36	15 A	Rly 1 output
37	10 A	Rly 2 output
38	20 A	Rly 3 output
39	10 A	Rly 4 output
40	15 A	CIU / TPI
46	15 A	INV & OBCM B+
47	10 A	PRND, Mirrors, Steering column
48	10 A	Cooling pump
49	10 A	DIS and diagnostics

JACKING AND LIFTING THE VEHICLE



K0104

Refer to the illustration above to determine the correct position for lifting the vehicle with a jack or on a two post lift.

Please make sure that any non Karma Automotive repair facility is aware of these lifting points.

WARNING: Never raise the vehicle when the charge cable is connected, even if charging is not in progress. Always disconnect the charge cable before raising the vehicle.

CAUTION: These are the only approved lifting points for your Revero. Lifting the vehicle at any other points may cause irreparable damage to the vehicle.

CAUTION: The coolant lines for the electric drive system run in channels recessed into the floor of the vehicle. These channels are located approximately 2 inches (45 mm) from the lower edge of the rocker.

CAUTION: Use a suitable rubber or wood pad to protect the body from surface damage.

TIRE CHANGING PROCEDURE

WARNING: Lifting a vehicle and getting under it to do maintenance or repairs is dangerous without the appropriate safety equipment and training.

Changing a tire can be dangerous. The vehicle can slip off the jack and roll over or fall causing injury or death. Find a level place to change the tire. To help prevent the vehicle from moving:

- 1. Set the parking brake firmly.
- 2. Put an automatic transmission in P (Park) or a manual transmission in 1 (First) or R (Reverse).
- 3. Turn off the engine and do not restart while the vehicle is raised.
- 4. Do not allow passengers to remain in the vehicle.
- 5. Place wheel blocks, if equipped, on both sides of the tire at the opposite corner of the tire being changed.

TRANSPORTING THE VEHICLE

CAUTION: Towing the vehicle with the wheels on the ground, or on a suspended lift, may cause serious damage to the vehicle as well as generating high voltages in the vehicle's electrical components.

The only approved method of towing or transporting your Revero is using a flatbed trailer or transporter.

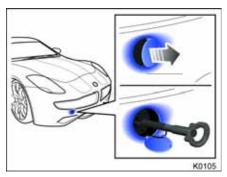
Note: Damage caused by any other towing method will not be covered by the vehicle warranty.

ATTACHING THE VEHICLE RECOVERY EYE

CAUTION: Under no circumstances should the vehicle be towed using the vehicle recovery eye. Doing so can cause significant damage to your Revero.

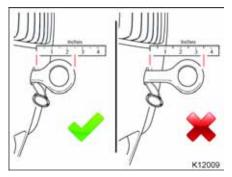
A vehicle recovery eye can be attached to the front of the vehicle to allow the vehicle to be pulled onto a transporter in situations when the vehicle can roll freely.

The recovery eye is located in the underfloor storage area of the trunk.



1. Place the vehicle into System Ready mode.

Note: Severe powertrain damage may result if you do not place the vehicle into System Ready mode to release park lock mechanism in the rear drive unit. 2. Press on the 4 o' clock position of the cover and it will pop out.



 Locate the recovery eye through the bumper and screw into the mount for 10 complete turns. Refer to the illustration above showing how the recovery eye should seat into the front of the vehicle.

Note: If the recovery eye cannot be rotated for 10 complete turns, remove the recovery eye and clean any debris from the threads before reinstalling.

CAUTION: Failure to install the recovery eye correctly could result in the eye pulling out of the front of the vehicle, causing significant damage.

SECURING THE WHEELS



When the vehicle is in position on the transporter or trailer, use chocks and tie down straps to secure the wheels.

To avoid damage:

- Ensure that metal parts on tie down straps do not contact the vehicle's painted surfaces or the face of any wheels.
- Do not place straps over or through the vehicle's body panels.

CAUTION: Attaching straps to the chassis, suspension or other parts of the body can damage the vehicle.

SERVICE INTERVAL SCHEDULES

Service interval		Service type		
Years	Distance	А	В	С
1	5,000 mi (8,000 km)	•		
1	10,000 mi (16,000 km)		•	
2	20,000 mi (32,000 km)			
3	30,000 mi (48,000 km)		•	
4	40,000 mi (64,000 km)			
5	50,000 mi (80,000 km)		•	
6	60,000 mi (96,000 km)			
7	70,000 mi (112,000 km)			
8	80,000 mi (128,000 km)			•
9	90,000 mi (144,000 km)		•	
10	100,000 mi (160,000 km)			

SERVICE INTERVAL SCHEDULES

ADDITIONAL PROCEDURES REQUIRED AT SPECIFIC INTERVALS

Distance	Service type
Every 50,000 mi (80,000 km)	Replace air filter
Every 50,000 mi (80,000 km)	Replace power steering fluid
Every 50,000 mi (80,000 km)	Replace differential oil
Every 50,000 mi (80,000 km) or 5 years	Replace brake fluid
Every 100,000 mi (160,000 km)	Replace spark plugs
Every 150,000 mi (240,000 km) or 5 years	Replace coolant

SERVICE TYPES AND REQUIRED PROCEDURES

Action	Service type		
Action	А	В	С
Engine oil filter	R	R	R
Engine oil	R	R	R
Power steering fluid	I	l	I
Cooling system (hoses & coolant)	I	I	I
All fluid levels	I	I	I
Engine air filter	I	I	I
Cabin filter	I	I	R
Brake pads - front	I	I	I
Brake pads - rear	I	I	I
Brake shoes - parking mechanism		I	I
Drive axles (halfshafts)	I	I	I
Shocks – front	I	I	I
Shocks - rear	I	I	I

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SERVICE INTERVAL SCHEDULES

Action	Service type		
Action	А	В	С
Steering, suspension, alignment	I	I	I
Tire inflation	Р	Р	Р
Lubricate body components	Ρ	Ρ	Р
Inspect fuel system			I
Inspect exhaust system			I
Run diagnostics	Ρ	Ρ	Р
Tire wear		I	
Wheel / Hub	I/C		

R = Replace component

P = Perform task

I = Inspect component or system

I/C = Inspect and Clean component or system

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INSPECTION AND MAINTENANCE

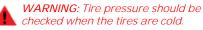
WARNING: The tires should be regularly checked for wear and to make sure that there are no cuts, bulges or exposure of the ply/cord structure. Do not drive with tires which are worn, damaged or inflated to the incorrect pressure. The safety of the vehicle and occupants will be adversely affected.

> *WARNING:* Poorly maintained and improperly used tires are dangerous.

WARNING: Overloading the tires can cause overheating as a result of too much flexing. There could be a blowout and a serious crash. See Vehicle Load Limits.

WARNING: Underinflated tires pose the same danger as overloaded tires. The resulting crash could cause serious injury.

WARNING: Check all tires frequently to maintain the recommended pressure.



WARNING: Overinflated tires are more likely to be cut, punctured, or broken by a sudden impact – such as when hitting a pothole.



WARNING: Keep tires at the recommended pressure.

WARNING: Worn or old tires can cause a crash. If the tread is badly worn, replace them.

WARNING: Replace any tires that have been damaged by impacts with potholes, curbs, etc.

WARNING: Improperly repaired tires can cause a crash. Only the dealer or an authorized tire service center should repair, replace, dismount, and mount the tires.

WARNING: Do not spin the tires excessively (greater than 35 mph [56 kmh]) on slippery surfaces such as snow, mud, ice, etc. Excessive spinning may cause the tires to explode.

The Karma Revero does not use run-flat tires and does not have a spare tire. Always consider tire conditions when driving, and regularly inspect the tread and side walls for any sign of distortion (bulges), cuts or wear and adjust air pressures regularly.

Good driving practice will improve the mileage you obtain from your tires, and avoid unnecessary damage.

- Always ensure that the tire pressures are correctly adjusted.
- Always observe the posted speed limits, and advisory speeds.
- Avoid pulling away quickly, or hard acceleration.
- Avoid making fast turns or braking sharply.
- Avoid potholes and objects in the road.
- Do not run over curbs or hit the tire against the curb when parking.

CAUTION: Avoid contaminating tires with vehicle fluids that can cause damage.

WHEEL ALIGNMENT AND TIRE BALANCE

Unbalanced wheels (noticeable as vibration through the steering) may affect vehicle handling and tire life.

Note: If tire wear is uneven (on one side of the tire only) or becomes abnormally excessive, the wheel alignment should be checked.

TIRE ROTATION

Because your Revero is equipped with different size tires on the front and rear wheels, the tires can only be moved from side to side on the same axle pair (front or rear).

PUNCTURED TIRES

WARNING: Do not drive the vehicle with a punctured tire. Even if the punctured tire has not deflated, it is unsafe to use as the tire may deflate suddenly at any time.

Your Revero is equipped with tubeless tires, which may not leak when penetrated, provided the object remains in the tire.

If, however, you feel a sudden vibration or ride disturbance while driving, or you suspect your tire or vehicle has been damaged, immediately reduce your speed. Drive slowly, while avoiding heavy braking or sharp steering and when safe to do so, stop the vehicle.

Inspect the tires for damage. If a tire is under-inflated and does not appear to have any damage to the sidewall, try to repair it using the tire repair kit. See "Tire Repair Kit" on page 138. If you cannot detect the cause or the tire is too heavily damaged, have the vehicle towed to a tire repair center, or your local Karma Service Provider to have the vehicle inspected.

A puncture will eventually cause the tire to lose pressure, which is why frequent checking of tire pressures is important. Punctured or damaged tires must be permanently repaired or replaced as soon as possible.

AGE DEGRADATION

Tires degrade over time due to the effects of ultraviolet light, extreme temperatures, high loads, and environmental conditions. It is recommended that tires are replaced every six years, but may require replacement more frequently.

TIRE WEAR

WARNING: The tire wear indicators show the minimum tread depth recommended by the tire manufacturer. Tires which have worn to this point will have reduced grip and poor water displacement characteristics.

The tires installed on your Karma are molded with a high grip compound and reduced tread depth to improve dry road traction and handling. The focus on dry road traction produces a tire that will not last as long as a general purpose tire. Drivers should expect significantly shorter tire life with these tires.



Karma Original Equipment (OE) tires have wear indicators molded into the tread pattern.

As the tire tread wears down, the indicators start appearing at the surface of the tread, producing the effect of a continuous band of rubber across the width of the tire.

A tire must be replaced as soon as an indicator band becomes visible or the tread depth reaches the minimum permitted by legislation.

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TIRE CARE

NORMAL TIRE WEAR

The characteristics for normal tire wear on the Karma are defined as:

- A uniform thickness of usable rubber across the entire tread width of the tire.
- The tread depth at the shoulder rib is reduced compared to the center of the tire. This helps the Karma achieve excellent steering and dry road handling performance.
- Under typical operating conditions, the shoulder rib may appear to be wearing at an accelerated rate. Depending on driving style, this may apply more to the front tires than the rear tires.

Note: Shoulder ribs will still have usable tread rubber, even though they appear worn.

CAUTION: Karma OE tires are classified as summer tires and use a softer rubber compound for driving conditions above 50°F (10°C). Hard cornering and large steering angle maneuvers will accelerate shoulder rib wear.

ASSESSING TIRE WEAR



- Locate wear indicator bars between adjacent tread ribs, the bars will align with one of the nine triangle indicators near the upper sidewall of the tire.
- 2. Inspect the wear indicator bars closely, once the bars become flush with the road contact surface of the tire, replace tires immediately.

Note: Your Karma Service Provider will evaluate tire wear when servicing your Revero.

TIRE PRESSURES

WARNING: Tire pressures should be checked using an accurate pressure gauge when cold. Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or blowout, with unexpected loss of vehicle control and increased risk of injury.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

FMVSS 138 (\$571.138 Standard No. 138; Tire Pressure Monitoring Systems) S4.5 Written Instructions.

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. See "Tire Pressure Monitoring System (TPMS)" on page 136.

Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces battery range and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if underinflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

CHECKING TIRE PRESSURES

WARNING: Pressure checks should only be carried out when the tires are cold and the vehicle has been stationary for more than three hours. A hot tire at or below recommended cold inflation pressure is dangerously under-inflated.

WARNING: If the vehicle has been parked in strong sunlight or used in high ambient temperatures, do not reduce the tire pressures. Move the vehicle into the shade and allow the tires to cool before checking.

WARNING: Do not exceed the maximum pressure stated on the sidewall of the tire. Over-inflation could cause the tire to fail suddenly.

Check the pressures when the tires are cold. Air pressure increases in warm tires and it only takes 1 mile of driving to warm the tires sufficiently to affect the tire pressures. If it is necessary to check the tires when they are warm, you should expect the pressures to have increased. Do not let air out of warm tires in an attempt to match the recommended cold tire pressures.

Always inflate your tires to the pressures recommended by Karma Automotive even if it differs from the maximum inflation pressure information found on the tires. For the correct tire pressures, refer to the "Tire and loading information label / vehicle placard" on page 145.

The following procedure should be used to check and adjust tire pressures:

- Remove the cap from the valve, then firmly press the tire gauge onto the valve and measure the pressure.
- 2. If required, add air to reach the required pressure.
- Check the pressure by removing the tire gauge and then re-attaching it. Failure to remove and re-attach the gauge to the valve could cause the gauge to show an incorrect reading.

- If the tire pressure is too high, remove the gauge and allow air out of the tire by pressing the center of the valve. Reattach the gauge to the valve and check the pressure.
- 5. Repeat the process adding or removing air as required until the correct tire pressure is reached.
- 6. Reinstall the valve cap.

Note: It is an offense in certain countries to drive a vehicle with incorrect tire pressures.

TIRE VALVES

Keep the valve caps screwed down firmly to prevent water or dirt entering the valve. Check the valves for leaks when checking the tire pressures.

FLAT SPOTS

If the vehicle is stationary for a long period, when the ambient temperature is high, the tires may form flat spots. When the vehicle is driven, these flat spots will cause a vibration which will steadily disappear as the tires warm up and regain their original shape.

REPLACEMENT WHEELS AND TIRES

WARNING: For your safety, it is recommended that only wheels and tires that match the original specification are used on the vehicle.

WARNING: Operation of the TPMS may be affected if the tires are replaced with a different specification to the originals.

Wheel rims and tires are matched to suit the handling characteristics of the vehicle. Always check that replacement tires comply with the original specification. If tires other than those specified are used, ensure that the load and speed ratings (shown on the tire side wall) equal or exceed those of the original specification.

For the specification of the original wheels and tires installed on the Karma, refer to "Tire Specifications" on page 152. Ideally, tires should be replaced as sets of four. If this is not possible, replace the tires in pairs (front and rear). When tires are replaced, the wheels should always be rebalanced and the alignment checked.

ASYMMETRIC TIRES

WARNING: Vehicle control and handling will be seriously impaired if the tires are incorrectly installed on the wheels.



Your Revero is equipped with asymmetric tires which must be mounted on the wheel with the correct sidewall facing outwards from the vehicle. In this case, the sidewall of the tire is marked with the words THIS SIDE OUTWARDS.

When new tires have been installed, always make sure that the tires are correctly orientated to the wheel.

DRIVING IN LOW AMBIENT TEMPERATURES

The tires installed on your Karma are specially formulated summer tires that are not intended to be driven in near-freezing temperatures, through snow or on ice.

Tire performance reduces in low ambient temperatures, resulting in less grip and an increased susceptibility to damage from impacts. When driving in sustained temperatures below 50°F (10°C), it is recommended that winter tires be installed.

WINTER TIRES AND TIRE CHAINS

WINTER TIRES

WARNING: Always adhere to the tire manufacturer's instructions, paying particular attention to the maximum speed at which the vehicle can be driven and the correct tire pressures.

CAUTION: Winter tires should not be installed on the standard production wheels installed on your Revero. The installation of winter tires may cause interference issues with chassis and body components.

Karma Automotive has designed a winter wheel and tire combination specifically for your Revero. Please contact your local Karma Service Provider for information on how to purchase these wheels and tires.

Generally, winter tires have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you install winter tires, they must be the same size, brand, construction and tread pattern for an axle pair (front and rear).

TIRE CHAINS

WARNING: Tire chains must only be used in conjunction with the Karma approved winter wheels and tires.

CAUTION: To avoid possible damage to the vehicle, use only very low profile tire cables instead of chains. The largest style of tire chain that should be used on the Revero is the Society of Automotive Engineers (SAE) class "S."

Note: Only install snow cables on the driven axle (rear wheels).

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains.

Note: Only the 21" tire packages have clearance for tire chains. The 22" tire packages do not have enough clearance for chains.

When installing tire chains, make sure they are the proper size for the tires on your Revero and are installed according to the chain manufacturer's suggestions.

When using tire chains:

- Drive at a reduced speed.
- Avoid fully loading your vehicle as this will reduce the clearance between the body and the wheels.
- Avoid tire/vehicle damage by removing the tire chains as soon as the conditions allow.

Contact your local Karma Service Provider for a list of approved tire chains and manufacturers.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

Your vehicle will not have a spare tire and will not use run-flat tires. The driver is solely responsible to periodically check the tire pressures. In case the user installs run-flat tires on the vehicle, it falls under his/her responsibility to make sure that the tires are inflated to the correct pressure level to prevent a TPMS malfunction.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly.

The TPMS malfunction indicator is provided by a separate telltale, which displays the symbol "TPMS" when illuminated.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly.

Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

The TPMS is standard equipment in all Karma vehicles. The following conditions may trigger the warning light to turn on:

- Low pressure soft (80% of recommended cold tire pressure)
- Low pressure hard (23.2 PSI)
- Fast pressure loss
- · Low battery charge

TPMS The telltale icon will flash for 1 min if there is a system malfunction, then become stable until the malfunction is corrected.

The CIU will display each sensor, showing its corresponding wheel temperature and pressure values.



TIRE PRESSURE CORRECTION

The tire pressure indicator light does not automatically turn off when the tire pressure is adjusted for all four tires. If the condition that is causing the TPMS icon to be illuminated is corrected, the vehicle must be powered-down normally, then reenergized and placed in System Ready mode. If the TPMS module registers all criteria as normal, the icon will go out.

If a TPMS sensor detects a problem and the corrective action requires a repair or tire replacement, the tire position can be relearned manually.

With the vehicle in Park [P] and in System Ready mode, you can enable the tire learning feature in the CIU by selecting:

 Settings > Diagnostics> TPMS > Manual Re-learn

Once learning is enabled, change the pressure (either add air, or let some out) on the corresponding tire. The system will acknowledge the change in pressure with a single short chirp. You must follow this sequence:

• Front Left (FL), Front Right (FR), Rear Right (RR), and Rear Left (RL)

Before moving to the next wheel, wait for the system to issue a double chirp, signaling each wheel has been identified and the pressure value has been updated. The corresponding turn indicator will flash also. If for some reason the TPMS sensor could not be communicated, or it times out, a longer chime will sound, which means the system could not learn the corresponding wheel.

You will hear a double-chirp when all four wheels have successfully relearned.

TIRE REPAIR KIT

Your Revero has no spare tire. Instead, you have been provided with a tire repair kit located in the storage space beneath the trunk floor.



The tire repair kit consists of a canister of tire sealant and a compressor.

Note: The canister only contains enough sealant to seal one tire.

The tire sealant contains liquid latex and a propellant. When injected into the tire through the valve, the liquid latex penetrates the puncture site and cures to form a temporary repair.

Note: The kit can only be used to repair small punctures in the tire tread. In the event of punctures larger than 1/4 inch (6 mm), severe tread damage, a damaged sidewall, ripped tires or tires that have come off the rim, please contact your Roadside Assistance provider.

You are advised to have the tire repaired or replaced as soon as possible.

CAUTION: Do not drive on a deflated tire as this can cause serious damage to the wheel and the vehicle. If the tire is too badly damaged, call Roadside Assistance to have the vehicle transported to a repair facility.

TIRE SEALANT

WARNING: Always read and follow the safety and handling instructions on the label adhered to the sealant canister.

The tire sealant supplied as part of the tire repair kit has an expiration date printed on the outside of the canister. Always replace an expired tire sealant canister. If the tire sealant has passed its expiration date, it may not work as expected when you need to use it in an emergency.

The tire sealant should always be replaced with one of the same type and capacity. This tire sealant has been approved for use with your Revero and will not damage the TPMS sensors.

Tire sealant canisters are available from all Karma Service Providers.

Note: The sealant/air hose assembly will need to be replaced after each use. See "Replacing the Canister/Air Hose Assembly" on page 141.

SAFETY PRECAUTIONS

WARNING: Under no circumstances should speeds of 55 mph (90 km/h) be exceeded while driving with a repaired tire.

WARNING: Never drive with a deflated tire, vehicle handling and braking will be compromised.

WARNING: Always read the directions and warnings on the tire sealant before starting a repair. Follow the directions on the canister exactly and pay attention to the following precautions.

WARNING: Always keep the tire sealant out of the reach of children.

WARNING: The tire sealant contains components which are harmful if consumed or inhaled:

- If swallowed, do not induce vomiting. Seek medical assistance immediately.
- If inhaled, breathe fresh air. If breathing is affected, seek medical assistance immediately.
- If the sealant comes into contact with the eyes, immediately flush the eyes with water. If irritation persists, seek medical assistance.
- Do not breathe gas, fumes, vapor or spray that may be emitted from the tire sealant. Inhalation can cause drowsiness and dizziness.

WARNING: Store the tire sealant in its correct location in the trunk. Temperatures in other locations may exceed safe storage conditions.

USING THE TIRE REPAIR KIT

CAUTION: If possible, stop in a safe place away from traffic. Always ask passengers to wait in a safe area away from traffic. Switch on the hazard warning flashers to alert other road users, then follow these steps.

1. If possible, position the wheel with puncture at the bottom.

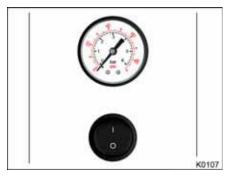


- 2. Release the clear plastic hose from around the base of the tire compressor taking care to ensure the sealant canister remains in place.
- 3. Detach the 12V power supply connector and plug into one of the vehicle's accessory power supply sockets.



4. Thread the end of the hose onto the tire valve.

5. Ensure the compressor is standing upright with the pressure gauge facing up.



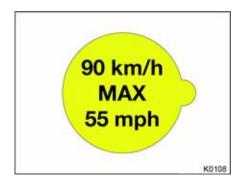
6. Turn on the compressor to inject sealant and air into the tire.

Note: The pressure gauge will initially show a high pressure while the compressor pushes the sealant into the tire. Once the sealant is completely dispersed into the tire, the pressure will quickly drop and start to rise again as the tire inflates with air only.

- Monitor the tire pressure gauge and inflate the tire to the recommended tire pressure.
- 8. Turn off the compressor and remove the hose from the tire valve.
- 9. Wipe of any excess sealant from the tire valve and wheel rim.
- If the wheel rim has lifted from the ground, drive immediately for 5 miles (8 km) to distribute the sealant around the tire. Do not exceed 25 mph (40 km/h).

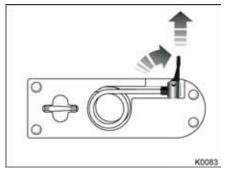
WARNING: If the required pressure cannot be reached after approximately 25 minutes, or the wheel rim has not risen from the ground, then the tire is too severely damaged for a safe repair. Call Roadside Assistance to have the vehicle transported. Do not drive!

11. Check the tire pressure once again and inflate as required, using the black hose located in the bottom of the compressor.

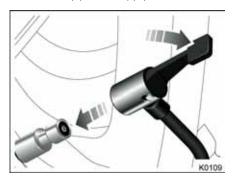


- 12. Apply the warning label supplied with the tire repair kit to a prominent area in the vehicle to remind you not to exceed 55 mph (90 km/h) until the tire has been professionally repaired or replaced.
- Dispose of the used sealant canister and sealant/air hose assembly at a local Karma Service Provider.
- Replace the tire sealant canister and sealant/air hose assembly. See "Replacing the Canister/Air Hose Assembly" on page 141.

USING THE COMPRESSOR

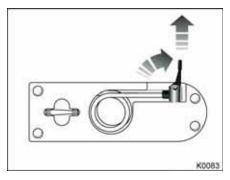


- 1. Release the black air only hose from the sealant canister on the base of the tire compressor.
- Detach the 12V power supply connector and plug into one of the vehicle's accessory power supply sockets.

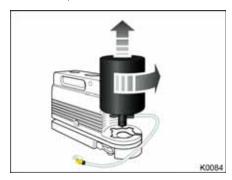


- 3. Attach the air only hose to the tire valve and press the lever down to secure it in place.
- 4. Ensure the compressor is standing upright with the pressure gauge facing up.
- 5. Turn on the compressor to inflate the tire.

REPLACING THE CANISTER/AIR HOSE ASSEMBLY



- 1. Release the black air only hose from the sealant canister on the base of the tire compressor.
- 2. Unwrap the clear sealant/air hose from the compressor.



- Rotate the sealant canister so the clear sealant/air hose is aligned with the slot in the compressor.
- 4. Lift the canister/air hose assembly from the compressor.

Note: Installation of the new canister is the reverse of the removal process.

TIRE MARKINGS



- 1. Tire composition and materials
- 2. Tire category
- 3. Tire width
- 4. Aspect ratio
- 5. Tire construction
- 6. Wheel diameter
- 7. Load index
- 8. Speed rating
- 9. Maximum permissible inflation pressure
- 10. Maximum tire load
- 11. U.S DOT Tire Identification Number (TIN)
- 12. Treadwear grade
- 13. Traction grade
- 14. Temperature grade

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number for safety standard certification and in case of a recall.

TIRE CATEGORY

P indicates that the tire is for passenger vehicles

TIRE WIDTH

This three digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge.

ASPECT RATIO

This two digit number, known as the aspect ratio or profile, gives the sidewall height as a percentage of the tread width. So, if the tread width is 205 mm, and the aspect ratio is 50, the sidewall height will be 102 mm.

TIRE CONSTRUCTION

R indicates that the tire is of Radial ply construction.

WHEEL DIAMETER

This two digit number is the diameter of the wheel rim in inches.

LOAD INDEX

This two or three digit number is the tire's load index. It is a measurement of how much weight each tire can support. This number is not always shown.

SPEED RATING

The speed rating, when stated, denotes the maximum speed at which the tire should be used for extended periods. The ratings range from 99 mph to 186 mph. These ratings are listed in the following table.

Rating	Speed mph (km/h)
Q	99 (160)
R	106 (170)
S	112 (180)
Т	118 (190)
U	124 (200)
Н	130 (210)
V	149 (240)
W	168 (270)
Y	186 (300)

U.S DOT TIRE IDENTIFICATION NUMBER

This begins with the letters Department of Transportation (DOT) and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was built. For example, the numbers **1716** means the 17th week of 2016. The other numbers are marketing codes used at the manufacturer's discretion. This information can be used to contact consumers if a tire defect requires a recall.

MAXIMUM PERMISSIBLE INFLATION PRESSURE

The maximum inflation pressure for the tire. This pressure should not be used for normal driving.

TREADWEAR GRADE

This number indicates the tire's wear rate. The higher the treadwear number is, the longer it should take for the tread to wear down. A tire rated at 400 for example, will last twice as long as a tire rated at 200.

TRACTION GRADE

This letter indicates a tire's ability to stop on wet pavement. A higher graded tire should allow you to stop your Revero on wet roads in a shorter distance than a tire with a lower grade.

Traction is graded from highest to lowest as AA, A, B, and C.

TEMPERATURE GRADE

Heat resistance grading. The tires resistance to heat is grade **A**, **B**, or **C**, with A indicating the greatest resistance to heat. This grading is provided for a correctly inflated tire, which is being used within its speed and loading limits.

TIRE COMPOSITION AND MATERIALS

The number of plies in both the tread area, and the sidewall area, indicates how many layers of rubber coated material make up the structure of the tire. Information is also provided on the type of materials used.

MAXIMUM TIRE LOAD

The maximum load which can be carried by the tire.

UNIFORM TIRE QUALITY GRADING

UNITED STATES DEPARTMENT OF TRANSPORTATION/UNIFORM TIRE QUALITY GRADE

The following information relates to the tire grading system developed by the National Highway Traffic Safety Administration (NHTSA) which will grade tires by tread wear, traction and temperature performance.

Note: Tires that have deep tread, and winter tires, are exempt from these marking requirements.

Quality grades, where applicable, can be found on the tire sidewall between the tread shoulder and maximum section width.

For example:

Treadwear	Traction	Temperature
200	AA	А

In addition to the marking requirements, passenger car tires must conform to Federal Safety Requirements.

TREADWEAR

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.

For example; a tire graded 150 would wear one and a half (1.5) times as well on a government test course as a tire graded 100. The relative performance of tires depends on the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climate.

TRACTION

WARNING: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include; acceleration, cornering, hydroplaning or peak traction characteristics.

The traction grades, from highest to lowest, are; AA, A, B, and C. These grades represent a tire's ability to stop on a wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

TEMPERATURE

WARNING: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

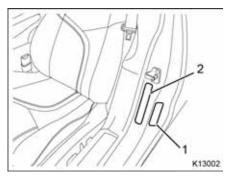
The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard (FMVSS) No. 109.

Grades **B** and **A** represent higher levels of performance on the laboratory test wheel than the minimum required by law.

LOADING THE VEHICLE

WARNING: Overloading the vehicle will have an adverse effect on braking and handling characteristics, which could compromise your safety or damage the vehicle.

It is important to understand how much weight your Revero can safely carry. This weight is called the vehicle capacity weight and includes the weight of all occupants, cargo and any additional equipment fitted to the vehicle since it was manufactured.



There are two labels affixed to your Revero that state how much weight your vehicle can safely carry:

- 1. Tire and loading information label.
- 2. Vehicle certification label.

With the driver's door open, these labels are located on the center door post.

TIRE AND LOADING INFORMATION LABEL / VEHICLE PLACARD



The tire and loading information label contains the following information:

• The maximum number of occupant seating positions.

- The maximum vehicle capacity weight in kilograms (kg) and pounds (lbs).
- The size of the tires originally installed on the vehicle.
- The cold inflation pressures for the original specification of front and rear tires.

The stated tire pressures provide optimum ride and handling characteristics for all normal operating conditions.

Note: This label must not be changed, even if different wheels are installed at a later stage.

VEHICLE CERTIFICATION LABEL

CAUTION: To prevent serious damage to the vehicle, never load the vehicle so that it is heavier than the GVWR or exceed the individual GAWR weights. Heavy loads should be evenly distributed throughout the vehicle.



The vehicle certification label contains the following information:

- GVWR Gross Vehicle Weight Rating. The GVWR is the maximum allowable total mass of the vehicle. This is calculated as the weight of the vehicle, all passengers, fuel and cargo.
- GAWR FR and GAWR RR Gross Axle Weight Rating for the front and rear axles.

The GAWR is the maximum distributed weight that may be supported by an axle on the vehicle.

CARRYING ITEMS

WARNING: The trunk is the preferred place to carry objects. In an accident, during hard braking, or sudden maneuvers, loose items carried in the vehicle's cabin area can be thrown around, and cause injury to occupants unless securely fastened.

TOWING A TRAILER

WARNING: Do not tow a trailer with your Revero. The Karma has not been designed to have a trailer hitch installed on it. The installation of a trailer hitch may cause serious damage to the vehicle which could result in an accident or serious injury.

STEPS FOR DETERMINING CORRECT LOAD LIMIT

- Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs" on your vehicle's placard (Tire information and loading label).
- 2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- 4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs, and there will be five 150 lb passengers in the vehicle, the amount of available cargo and luggage capacity is 650 lbs. (1400-750 (5x150) = 650 lbs)
- 5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

EXAMPLE LOAD LIMIT CALCULATIONS

The number and weight of passengers will affect the cargo and luggage load capacity. The following are typical examples of calculated load limits.

Example 1:

Item	Description	Total
	Vehicle Capacity Weight =	700 lbs
÷ †	Subtract Occupant Weight (2 x 150 lbs) =	300 lbs
	Available Cargo or Occupant Weight =	450 lbs

Example 2:

Item	Description	Total
	Vehicle Capacity Weight =	700 lbs
÷ ÷	Subtract Occupant Weight (4 x 150 lbs) =	600 lbs
	Available Cargo or Occupant Weight =	150 lbs

Note: If the passengers weigh more, the available cargo capacity will decrease.

WHEELS AND TIRES GLOSSARY

ACCESSORY WEIGHT

The combined weight (in excess of those items replaced) of items available as factory installed equipment.

BEAD

The inner edge of a tire that is shaped to fit to the rim and form an air tight seal. The bead is constructed of steel wires which are wrapped, or reinforced, by the ply cords.

COLD TIRE PRESSURE

The air pressure in a tire which has been standing in excess of three hours, or driven for less than one mile.

CURB WEIGHT

The weight of a standard vehicle, including a full tank of fuel, any optional equipment installed, and with the correct fluid levels.

GROSS VEHICLE WEIGHT

The maximum permissible weight of a vehicle with driver, passengers, load, luggage, and equipment.

KPA (KILO PASCAL)

A metric unit used to measure pressure. One kilo Pascal equals approximately 0.145 psi.

MAXIMUM INFLATION PRESSURE

The maximum pressure to which the tire should be inflated. This pressure is given on the tire side wall in psi (lbf/in^2) and kPa.

Note: This pressure is the maximum allowed by the tire manufacturer. It is not the pressure recommended for use.

MAXIMUM LOADED VEHICLE WEIGHT

The sum of curb weight, accessory weight, vehicle capacity weight, and production options weight.

PRODUCTION OPTIONS WEIGHT

The combined weight of options installed which weigh in excess of 3 lbs (1.4 kg) more than the standard items that they replaced, and are not already considered in curb or accessory weights.

PSI (LBF/ IN^2)

Pounds per square inch, an imperial unit of measure for pressure.

RIM

The metal support for a tire, or tire and tube, upon which the tire beads are seated.

VEHICLE CAPACITY WEIGHT

The number of seats multiplied by 150 lbs (68 kg) plus the rated amount of load/luggage.

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VEHICLE AND COMPONENT IDENTIFICATION	
Vehicle Identification Number (VIN)	
VEHICLE DIMENSIONS AND WEIGHTS	
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Vehicle Weights	
WHEELS AND TIRES	
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Tire Specifications	
SUBSYSTEM SPECIFICATIONS	
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Traction Motors	
Propulsion Unit/Differential	
Steering	
Front Suspension	
Rear Suspension	
Brakes	
Battery - 12V	
Battery - High Voltage	

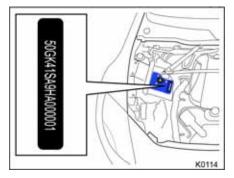
VEHICLE IDENTIFICATION NUMBER (VIN)

If you need to communicate with Karma Automotive, you may be asked to provide the Vehicle Identification Number (VIN).

You can find the VIN in the following locations:



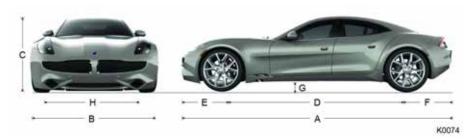
• Top of dashboard - the VIN is stamped on a plate which is visible through the lowest part of the left-hand side of the windshield.



• Chassis - the VIN is stamped on the vehicle chassis, and is visible on the right-hand front suspension mounting in the engine compartment.

Note: The VIN is also displayed on the vehicle certification label. See "Vehicle certification label" on page 145.

DIMENSIONS



Dimensions			
А	Overall length	196.8 in	4998 mm
В	Overall width (including mirrors)	84.0 in	2133 mm
С	Overall height	52.4 in	1330 mm
D	Wheel base	124.4 in	3160 mm
E	Front overhang	35.9 in	913 mm
F	Rear overhang	36.4 in	925 mm
G	Ground clearance	5.3 in	135 mm
Н	Track - Front	66.6 in	1692 mm
	Track - Rear	67.0 in	1701 mm
	Approach angle	11.4°	
	Departure angle	20.0°	
	Breakover angle	9.9°	

VEHICLE WEIGHTS

Weights		
Curb weight (full fuel tank, correct fluid levels, no occupants or cargo)	5400 lb	2450 kg
Gross Vehicle Weight Rating	6100 lb	2767 kg
Gross Axle Weight Rating - Front	2750 lb	1248 kg
Gross Axle Weight Rating - Rear	3400 lb	1543 kg
Payload Weight	700 lb	318 kg

WHEEL SPECIFICATIONS

Wheel type	Location	Size
Dune Twist - Two Tone	Front	22 x 8.5J
	Rear	22 x 9.5J
Dupo Twist Midnight Chromo	Front	22 x 8.5J
Dune Twist - Midnight Chrome	Rear	22 x 9.5J
Forged Multi-spoke	Front	22 x 8.5J
	Rear	22 x 9.5J
Carbon	Front	22 x 8.5J
	Rear	22 x 9.5J
Diamond Facet	Front	21 x 8.5J
	Rear	21 x 9.0J

Road wheel nut torque	220 Nm	162 lbf.ft
Note: For details on where to lift the vehicle,	see "Raising the Vehicl	e" on page 123.

TIRE SPECIFICATIONS

Tire type	Location	Size	Pressures
Standard production tires (North	American mark	et only)	
Goodyear Eagle F1 Supercar	Front	255/35 R22 99W	inflate to 40 psi
Coodyedi Edgler i Supercui	Rear	285/35 R22 102W	inflate to 36 psi
Optional summer tires			
Pirelli P Zero	Front	245/40 R21	inflate to 35 psi
	Rear	265/40 R21	inflate to 38 psi
Optional winter tires (North American market only)			
Pirelli Scorpion	Front	255/40 R21	inflate to 35 psi
	Rear	265/40 R21	inflate to 38 psi

ENGINE

Engine		
Туре	GM L4 Ecotec engine. DOHC with variable valve timing. Turbocharged.	
Displacement	122 сі (1998 сс)	
Number of cylinders	4 in line	
Firing order	1-3-4-2	
Bore	3.39 in (86 mm)	
Stroke	3.39 in (86 mm)	
Compression ratio	9.25:1	
Fuel system	Direct injection	
Spark plug type	AC Delco IRIDIUM 41-108	
Spark plug gap	0.032-0.035 in (0.81-0.90 mm)	
Fuel	UNLEADED fuel. Refer to the label on the inside of the fuel filler cover for the Octane rating recommended for your Revero.	

TRACTION MOTORS

Traction motors	
Туре	2 x high voltage motors. Aluminum casings. Water cooled.
Rating	345 Volts
Maximum speed	6000 rpm

PROPULSION UNIT/DIFFERENTIAL

Propulsion unit / Differential		
Туре	Water cooled, single speed.	
Reverse mode	Reverse direction of motors, limited to 30 mph (48 km/h)	
Final drive ratio	4.1:1	

STEERING

Steering	
Туре	Rack and pinion with electro hydraulic power steering system and variable sensitivity.
Number of turns lock to lock	2.8
Turning circle (curb to curb)	12.45 m (40 ft 10 in)

FRONT SUSPENSION

Front suspension		
Туре	Independent. Co-axial coil spring/telescopic damper. Sway bar.	
Alignment	optimum	0.1°
Algiment	tolerance	± 0.06°
Camber	optimum	-0.5° per side 0.0° side to side
	tolerance	± 0.2° per side ± 0.3° side to side
Caster	optimum	6.0° per side 0.0 side to side
	tolerance	± 0.3° per side ± 0.4° side to side

REAR SUSPENSION

Rear suspension		
Туре	Independent. Co-axial coil spring/telescopic damper. Sway bar.	
Alignment	optimum	0.05° per side 0.1° side to side
	tolerance	± 0.03° per side ± 0.06° side to side
Camber	optimum	-1.25° per side 0.0° side to side
	tolerance	± 0.2° per side ± 0.3° side to side
Thrust	optimum	0.0°
	tolerance	± 0.2°

BRAKES

Brakes	
Туре	Electro hydraulic brake boost unit with integrated chassis control function. Anti-lock Braking System (ABS). Advanced regenerative blended brake system.
Calipers	Front: Six piston monoblock Rear: Four piston
Rotors	Ventilated front and rear rotors. Front: 370 mm diameter Rear: 365 mm diameter
Parking brake	Electrically actuated cable operation of parking brake.
Brake pedal free travel	Not adjustable

BATTERY - 12V

Battery - 12V	
Turpo	Exide
Гуре	Maintenance free, sealed for life.
Rating	70 Amp/hr.
	Cold Cranking Amps (CCA): 720.
Voltage and polarity	12V. Negative (-) ground

BATTERY - HIGH VOLTAGE

Battery - high voltage	
Туре	Lithium ion (Li-ion) with Nanophosphate™ technology
Weight	606 lb. (275 kg)
Rating	20 kWh (Peak)
Voltage and polarity	345V DC. Negative (-) ground

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