



OWNER / USER / OPERATOR - MANUAL



WARNING



Do not operate unless you have read and understood the user manual.

2023 MODEL YEAR

***REVISED 3.0 – 12/09/23 – PLEASE VISIT THE LAST PAGE OF THIS DOCUMENT FOR MOST RECENT UPDATES.

INTRODUCTION

THANK YOU FOR JOINING THE **REV** FAMILY!

Congratulations on the new purchase of your RECREATIONAL ELECTRIC VEHICLE (**REV**). Your **REV** will now take you to join the new movement in electric vehicle transportation. Unlike most, the **REV** is packed with several standard features that other brands may not have. First and foremost, safety is our top priority while owning a **REV**. If you have any questions involving the operation of your vehicle, please refer to this owner's manual or consult with the dealer you purchased the unit from.

Inside this manual you will find instructions and best practices for owning an electric vehicle. Key points that are primarily focused on will have images to help illustrate and improve understanding of all aspects of ownership. Since you've chosen **REV** for your electric vehicle investment, we would like to help you understand how to protect, operate, and care for it in for many years of ownership to come.

Always remember to operate your **REV** responsibly, this ensures all passengers and driver are safe from all risks.

The operator of this (golf car, neighborhood electric vehicle NEV, personal transport vehicle PTV, low speed vehicle LSV) will need to understand this unit is made to operate only in areas designated by state laws. If you have questions about where you can operate your **REV**, please consult your local department of public safety or department of motor vehicles. This unit is not DOT certified to drive on any public highway or road without proper inspection and certification from the state in which you reside.

If you have any questions about your **REV**, please contact your local authorized dealer from whom you purchased the vehicle from.



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ATTENTION
PARKING BRAKE MUST BE APPLIED
BEFORE LEAVING VEHICLE



SAFETY FIRST

CAUTION

DANGER

NOTICE

BATTERY WARNING

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm.

WASH HANDS AFTER HANDLING!

BATTERIES AND RELATED PARTS CONTAIN LEAD



WASH HANDS AFTER HANDLING!

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm.

WARNING



SHARP TURN

APPLY BRAKE TO LIMIT SPEED

WARNING



SHARP TURN

APPLY BRAKE TO LIMIT SPEED

WARNING



STEEP HILL

APPLY BRAKE TO LIMIT SPEED

WARNING



< 14° 25%

DO NOT DRIVE ACROSS SLOPES IN EXCESS OF 14°

Always first and foremost, obey all traffic laws and regulations. Understand the **REV** is equipped with seat belts and hip restraints for your safety while in operation. Failing to understand that using this vehicle in any matter than it was intended to be used can result in risk of injury or death.

CAUTION

DANGER

NOTICE

Do not modify the **REV** with any unapproved accessory that compromises the safety of driver and passengers. The **REV** is not intended for excessive off-road use or to be used on slopes or grades more than 14 degrees. Always use judgement when turning and apply the foot brake to limit speed before entering the turn. Understand also, the vehicles performance characteristics are changed due to suspension height. Know that while operating at higher speeds the vehicle reacts differently to inputs from the driver. Take steps to understand the machine and how it reacts, by taking time to practice driving and getting familiar with all the safety features.

CAUTION

DANGER

NOTICE

Performance Modifications to the **REV** may result in the cancellation of any remaining factory warranty. Please understand that all installed accessories by the dealer are subject to approval by **REV** and must be discussed prior to installation.



SAFETY FIRST - CONTINUED

CAUTION

Understand that working around voltage requires you to be mindful of electrical shock hazards. Electrical shorts can cause fires, shock, personal injury, or death. Always prevent direct contact between the positive post/terminal of a battery and the ground post/terminal of the battery.

Always use insulated tools while working around the battery section of the **REV**.

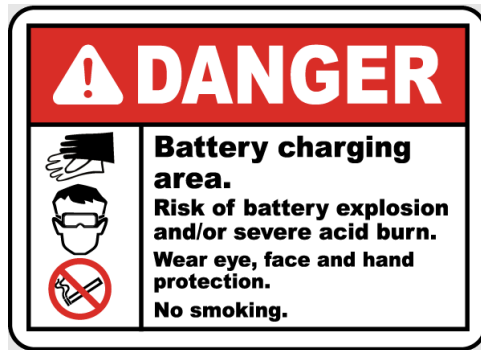
NOTICE

Key Safety Notes

DANGER

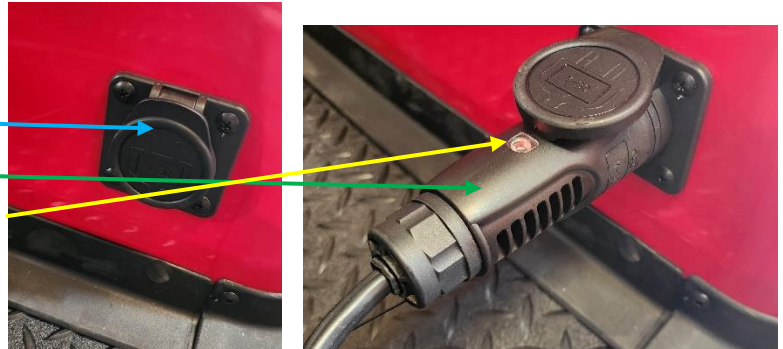
- **Always set the emergency brake before exiting** the **REV**. Steps for this process are to be completed **before you turn off the vehicles key switch**. The **REV** must have the key in the on position to set the electric parking brake.
- To prevent from being struck by the **REV**, never stand in front or behind of an electric vehicle while in operation.
- Only allow for two people per row of seating on the **REV**. This also makes use of supplied safety equipment adequate for each rider. Never allow a person to sit on another's lap during operation of the vehicle.
- Always reduce overall speed when operating **REV** on off road surfaces or any conditions that seem unsafe.
- Always use the pedal brake to control the speed of the **REV** while traveling down steep hills or slopes.
- Always use a horn device and exterior lights when approaching pedestrians to alert them of your presence.
- Always use caution when pedestrians are present. Always understand your surroundings and use good judgment when entering sharp or blind turns/curves.
- Always read warning labels and decals on the **REV** to understand the overall safety for the driver and passengers.

REV – CHARGING THE BATTERIES



1. First locate the supplied charging cord adapter that came with your **REV** purchase.
2. Next locate the wall outlet 110v that you plan to use for charging your **REV** vehicle. If your wall outlet is rated for less than 15amps, you may trip the breaker. Try not to use outlets that share other high amp electrical devices to avoid service interruptions. Always use a 110v outlet with 3 prongs to supply the charger with a ground connection.
3. Always set the parking brake on the **REV**, then switch the key into the off position before charging.
4. Next plug in the charging cord adapter into the **REV** receptacle located on the driver's side floorboard. Locate and carefully lift the receptacle lid and plug in the charger plug.

- LIFT UP RECEPTACLE DUST COVER
- INSERT SUPPLIED CHARGING PLUG
- WATCH FOR LED LIGHT TO CONFIRM CONNECTED



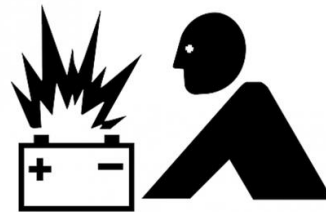
5. Next you will see a light (RED) come on if the connection is successful. You can also lift the front seat up and verify the charger's fan has turned on and the charger's LED light has begun to flash.
6. Once you have confirmed the charger connection and charger are functioning, next you can judge the charge cycle based on LED light flashing sequence on the exterior charger plug or the charger LED indicator on the charger itself.
7. Flashing Red while charging has two different states. Slow flashes indicate very early stages of the charge cycle are in progress. Faster flashes indicate later stages of the charge cycle (closer to being finished). Solid Green LED will indicate the charging cycle is complete. Another way to confirm the charge cycle is complete is to lift the seat and notice the fan has stopped spinning and the indicator light is solid green on the charger.
8. Understand if your vehicle is new, and the batteries are new, there will be a break in period. When using LEAD ACID batteries, the balance of the batteries will start once you begin after the first full cycle. Expect to see longer run-times and greater distance after 15-25 complete charge cycles. The state of charge meter on the dash calibrates to a more precise reading the more charge cycles you complete.
9. Remember there is no memory stored in LEAD ACID batteries, you can charge the batteries at any time, no matter how long you use the **REV**. Never discharge your batteries less than 80% of their rated capacity.

REV - CHARGING THE BATTERIES - CONTINUED



10. Always use proper personal protective equipment PPE, such as acid resistant gloves and safety glasses when cleaning or filling the batteries with fresh distilled water.
11. All six batteries are to be monitored and kept clean of all dirt and debris. Make sure to complete the cleaning outside and use household baking soda and distilled water. This will clean the tops of the batteries and remove light corrosion without any agitation. Do not direct any water toward any electrical devices such as controllers, receptacles, DC converters, fuse panels, plugs or electric motors. Use compressed air or a leaf blower to dry the tops of the batteries after cleaning.
12. Always check the battery water level before charging. If the plates are exposed and no water is above the plates, distilled water/electrolyte levels can be adjusted at this time. After charging has been completed open the caps to confirm the levels are $\frac{1}{4}$ " below the bottom of the cap cell cover.
13. Always add distilled water after the charging cycle is completed unless step 12 needs to be completed.
14. Avoid charging batteries in extreme temperatures in excess of 120 degrees fahrenheit, and in closed garages. The charging of lead acid batteries produce hydrogen gas that may cause major health risks due to nature of the chemical reaction taking place. This can be fatal if any warning label or instruction is not followed.
15. Charging of lead acid batteries also will result in the staining on your concrete floor/driveway and also trigger carbon monoxide alarms. Always provide clean fresh air to any enclosed area where you plan to charge the **REV**. Propping up the seat or complete removal of the seat is suggested during the charging cycle.
16. Always check your battery cables for excessive movement, always inspect cables for broken connections. It is routine maintenance to periodically tighten your cable connections. Battery manufactureres do not warranty melted posts due to owner negligence.
17. Never use a charger if the plug has been damaged or shows signs of getting extremely hot (to hot to touch).
18. Never use a charger that has a loose connection or does not make a good contact with the wall receptacle.

19. Never use a charger that has pins that have been damaged.
20. Inactivity or seasonal usage of lead acid batteries can be extremely difficult to up keep. Always charge your batteries fully before storing. Always set your emergency brake, turn off the ignition and remove the main (-) negative wire from your battery pack (passengers side back battery). This disconnects the pack from any source that could potentially draw power and discharge your batteries.
21. Upon returning to your stored REV unit, always use proper PPE and reconnect the (-) negative wire from your battery pack (passengers side back battery) to energize your vehicle back to working state. Notice, there will be a small spark from the ground wire touching and energizing the componets, this is to be expected. Tighten down the battery nut on the ground wire and proceed to charging up the **REV** for use.



Battery Electrolyte is a poisonous and dangerous solution that can cause severe burns, etc. Battery Electrolyte contains sulfuric acid. Avoid contact with skin, eyes & clothing. Use eye protection when always working near lead acid batteries.

KEEP OUT OF REACH OF CHILDREN.



PROCEDURE FOR EXPOSURE:

- *External: Flush with water.*
- *Internal: Drink large quantities of water or milk. Follow with milk of magnesia, a beaten egg or vegetable oil solution.*
- *Call a physician immediately or visit a prompt care if exposure is severe.*
- *Eyes: Flush with water for 15 minutes and seek immediate medical attention.*

Batteries produce explosive gases. Always provide proper ventilation when charging batteries and never introduce sparks, flames, cigarettes, etc.



REV – OPERATING PRINCIPLES

Your **REV** is designed around providing safe transportation and we would like to explain to you how to navigate and use all the key features. Always operate your REV responsibly and please do not consume alcohol or drugs during or while operating. Before operating, please complete these necessary steps to confirm your REV is ready for operation.

1. Make sure batteries are fully charged	2. Routine Walk Around Inspection
3. Check for any fluid leaks	4. Check tires for uneven air pressure
5. Check for any loose/missing hardware	6. Check parking brake operation

- Always remove the charging plug from the receptacle after completing the charge cycle.
- Next make sure all passengers are seated and wearing their safety belts as provided.
- Adjust all mirrors and backup camera angles to assure navigation sight isn't obstructed.
- By turning the key to the on position, you will now be able to select your desired direction.
- If you receive a fault on your LCD and the vehicle will not move, you must first reset the controller, then proceed to (F) or (R) to begin your journey.

FAULT CODE # 082 requires a shift to NEUTRAL reset to clear the fault and proceed back to forward or reverse.



- Once selected, next release the parking brake by toggling the switch opposite of the lock position (**UP**). Now you can proceed in motion of your desired direction. You will hear the electric actuator releasing the cables for the park brake.
- The **REV** will accelerate using the accelerator pedal and decelerate using the brake pedal.
- Understand turning the steering wheel in the left or right direction will dictate which way the **REV** will navigate to.
- Do not exit the vehicle while in motion and always keep both hands on the steering wheel during operation. Never expose arms/legs outside of the cockpit of the **REV** during motion.
- Once you reach your destination, it is required you **set your electric parking brake** and wait for the **red illumination light to be displayed** on the switch. You can always confirm the brake is set by referring to the LCD display where the icon below has been displayed.

ATTENTION
PARKING BRAKE MUST BE APPLIED
BEFORE LEAVING VEHICLE

- Always exercise caution and try not to park on steep inclines. Always look for flat areas to assist with unloading and loading of the **REV** passengers. This also helps with parking safety in general.
- Next, you can turn off the vehicle's power using the key switch and exit the vehicle.

REV – OPERATING PRINCIPLES – CONTINUED

Driving on slippery surfaces. CAUTION

- Always be cautious of the road and its ability to change due to weather or terrain. Driving on any slippery surface can cause the vehicle to slide or lose control. Drive very slowly and stay alert to how the vehicle feels. Take caution when applying the brakes as this may introduce a slide/skid. If you start to feel the rear of the vehicle slide, it's best to turn the steering wheel in the direction of the slide to regain control.

Driving Uphill or Downhill. CAUTION

- Always navigate hills using straight paths.
- Avoid any steep hills with a grade of more than 10 degrees.
- Avoid driving beyond your vehicle's capabilities or your skill level.
- Avoid using excessive heavy braking on steep downhill descents, as the brakes could lock up causing the vehicle to lose control or skid.

Driving through water. CAUTION

- Always slow down and proceed with caution.
- Never allow the vehicles electric motor or controller to be submerged in water.
- Never drive through water more than 3" inches in depth.
- Be aware of your surroundings and use extreme caution.

Hauling cargo and passengers. CAUTION

- Always remember adding weight can alter the vehicles center of gravity and change the handling characteristics.
- Secure uneven loads and always ask passengers to stay seated.
- Never exceed the overall (people, accessories, & cargo) maximum weight capacity of 750lb and never exceed more than 250lb of cargo on the fold down seat platform.

REV – VEHICLE CONTROLS



LCD DISPLAY
VEHICLE STATUS

ACCELERATOR
PEDAL

BRAKE
PEDAL



HI/LO SPEED SWITCH

PARKING BRAKE SWITCH

MAIN POWER - KEY SWITCH



ROTARY – FORWARD / NEUTRAL / REVERSE - SELECTOR



HORN BUTTON

ROTARY LIGHT SWITCH – TWIST TO OPERATE
PARKING LIGHTS 1ST , HEADLIGHTS 2ND , PULL
BACK FOR HIGH BEAM + LED LIGHT BAR

REV – AUDIO / VIDEO / MEDIA

10" TOUCH SCREEN DISPLAY

LEFT TURN SIGNAL

RIGHT TURN SIGNAL

LIGHTS ON – LOW BEAM

LIGHTS ON – HIGH BEAM

PARKING BRAKE ON

FORWARD SELECTED

REVERSE SELECTED

MPH GAUGE

CLOCK DISPLAY



“READY” FOR OPERATION DISPLAY

MOTOR TEMPERATURE DISPLAY

SOC “STATE OF CHARGE” GAUGE

SOC PERCENTAGE DISPLAY

ODOMETER DISPLAY

CONTROLLER AMPERAGE DISPLAY

DIGITAL VOLTAGE DISPLAY

FAULT CODE DISPLAY



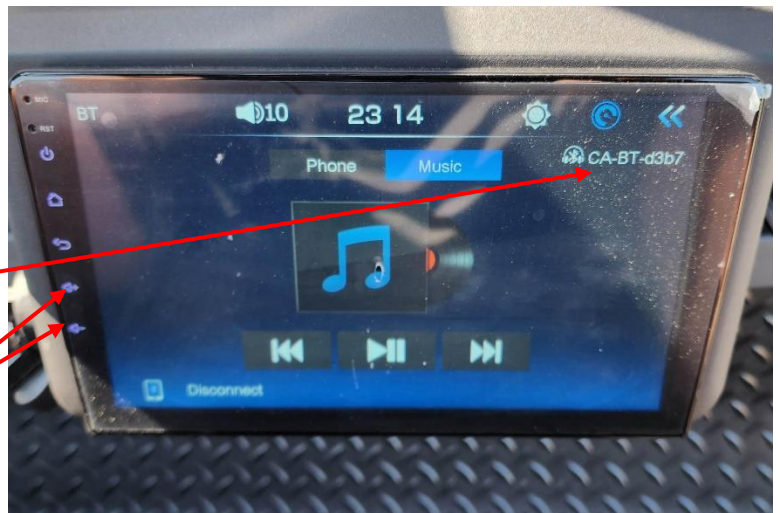
This screen is accessed by using the HOME Button located under the POWER button.



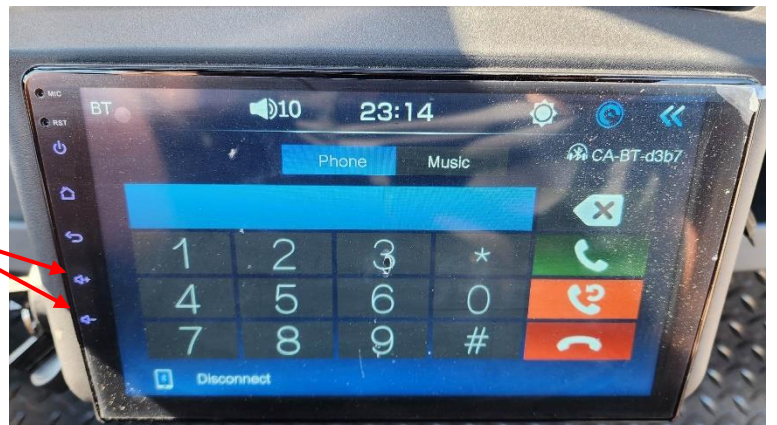
This screen is known as the FM radio screen. It can be accessed from the HOME button. The VOLUME KEYS are located on the left side underneath the back arrow key.



This screen is known as the Bluetooth "BT" home screen. It can be accessed from the HOME button. Turn on your Bluetooth from your mobile device and choose the REV device by looking for the name located on the top right of the screen. Volume can be controlled from both the REV and your mobile device.

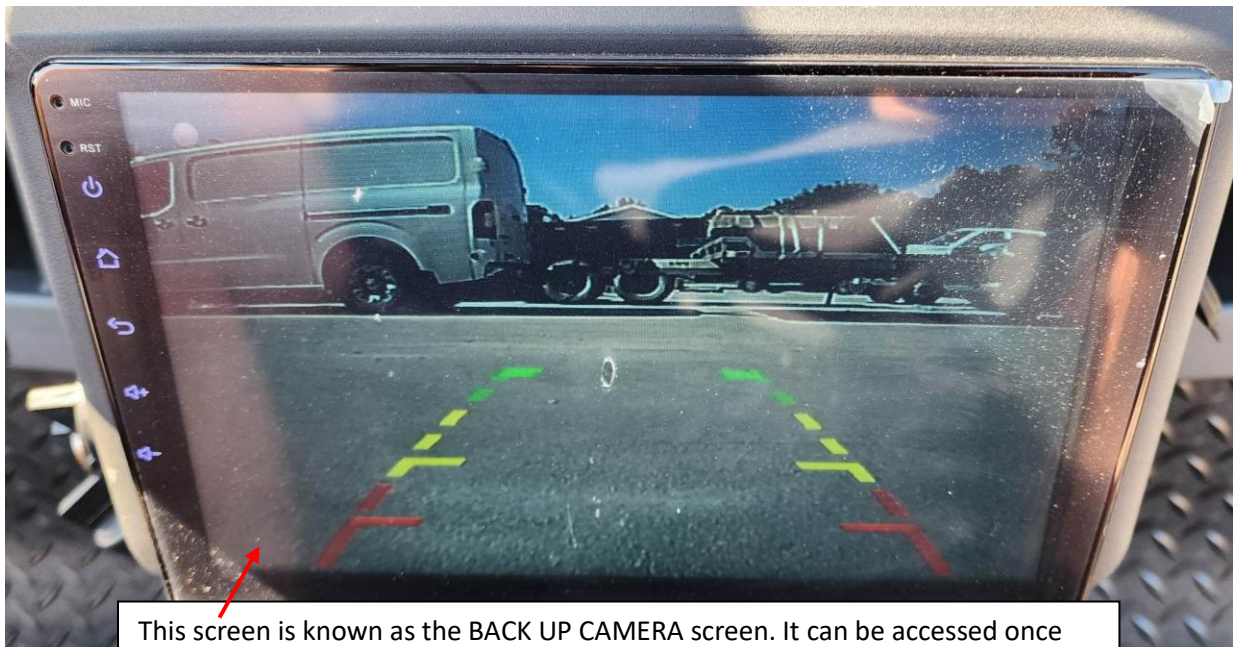


This screen is known as the TELEPHONE screen. It can be accessed from the HOME button. The VOLUME KEYS are located on the left side underneath the back arrow key.





This screen is known as the SETTING screen. It can be accessed from the HOME button. You can use this screen to set your clock and date.



This screen is known as the BACK UP CAMERA screen. It can be accessed once you choose to reverse on your rotary forward / reverse selector. The grid lines are for reference. These lines can be adjusted by adjusting your cameras angle. There is no alarm for getting too close or crossing traffic. Use for reference only and be extremely careful backing up.

REV – VEHICLE MAINTENANCE

Now that you're getting ready to explore on your new **REV**, next we can discuss proper routine maintenance. This will help the longevity of the ownership of the unit and protect your investment for years to come.

NEVER PERFORM REPAIRS OUTSIDE OF YOUR SKILL LEVEL. ALWAYS REFER TO THE DEALER FROM WHICH YOU PURCHASED FROM TO HANDLE REPAIRS OF YOUR UNIT.

1. Always apply the parking brake before exiting the vehicle and remove the key prior to performing any maintenance activities.
2. Only clean the vehicle with automotive grade detailing products and never with high pressure streams of water. Best practices for painted surfaces should be completed using a spray based detailing solution "waterless wash". This protects the paints while adding surface protection. Follow the instructions on the products for the best results.
3. Always check your air pressure and make sure all tires are evenly inflated. Tires that are under inflated or over inflated will damage the tires tread pattern and wear unevenly.
4. Always wipe down your upholstery with an automotive grade product. Follow instructions for best practice.
5. Always clean your wheels with automotive grade pH neutral soap. Use a microfiber mitt or sponge to remove dirt and debris from wheel face. NOTICE – use of any wheel cleaners with harmful acids or chemicals will not be covered under warranty replacement.
6. Always Check the following daily and monthly consistently.

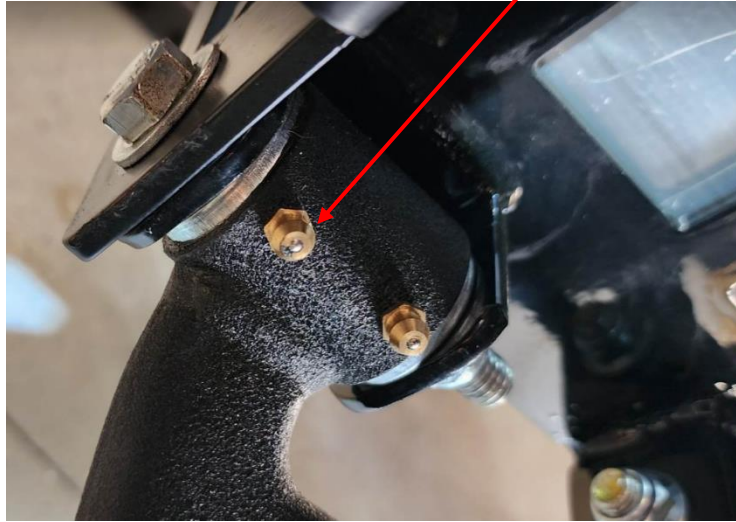
<u>ITEMS TO CHECK DAILY (MONTHLY **)</u>	<u>TASK TO PERFORM</u>
Brake System / Pedal Travel	Check for proper operation, Master Cylinder Fluid Level Topped
Parking Brake Strength	Ensure vehicle holds and doesn't move
Front Suspension Grease Points	Inspect, lubricate, check for loose or missing hardware
Steering Wheel Movement	Check for free and smooth operation, no loose movement
Reverse Backup Buzzer	Listen for sound when vehicle is in reverse
Reverse Camera	Check LCD display for proper camera alignment and operation
Fluid Leaks	Inspect areas and locate potential sources if found. Call Dealer!
Tires	Check wear patterns and air pressures
Overall Vehicle Condition	Inspect
Battery Module – Lead Acid Batteries	Inspect Watering Caps – Make Sure No Leaks
Wheels**	Check Lug Nuts – Tighten as Needed (Recommended 70ft lbs.)
Wiring**	Inspect for loose connections
Tie-Rods**	Check for excessive movement "play", and worn bushings
Front Suspension (A-Arm, Shocks, Hubs, Ball Joints)**	Check for leaks, excessive play, loose motion, missing hardware
Wheel Alignment**	Check for inconsistent tire wear
Rear Suspension	Check for leaks, worn bushings, loose or missing hardware
Rear Axle	Check for leaks, excessive noise, vibration
Parking Brake Strength	Check to make sure parking brake holds unit with firm resistance



REV – VEHICLE MAINTENANCE (CONTINUED)

****Always contact your dealer to discuss issues or problems before trying to tackle them yourself****

Lubricating the front end involves applying grease to the zerk fittings on each of the control arms, and the steering tie rod end.



Checking the brake fluid can be completed by lifting the seat and visually checking the level in the master cylinder.



REV – SPECIFICATIONS

CURRENT MODEL YEAR 2023

	2+2 Lifted	2+4 Lifted
Battery	Lead Acid(6) 8V 51 Volts	Lead Acid(6) 8V 51 Volts
Charger	Onboard Smart Charger	Onboard Smart Charger
Motor	48V A/C Induction	48V A/C Induction
Output Rating	5kW/6.7 hp	5kW/6.7 hp
Maximum Speed*	17-25 mph*	17-25 mph*
Frame	Aluminum	Aluminum
Body	Automotive Paint & Finish	Automotive Paint & Finish
Steering	Rack & Pinion	Rack & Pinion
Front Suspension	Independent Coil over shocks	Independent Coil over shocks
Rear Suspension	Leaf Spring	Leaf Spring
Brakes	Hydraulic Disk	Hydraulic Disk
Length	121 inches	154 inches
Width	50 inches	50 inches
Height	84 inches	83 inches
Curb Weight	1050 lbs.	1200 lbs.
Standard Tires	23x10.5-14	23x10.5-14
Battery Warranty	18 Month Limited**	18 Month Limited**
Vehicle Warranty	2 Year Limited***	2 Year Limited***
Seating Capacity	4	6

 **CAUTION**

 **DANGER**

* Vehicle will be shipped at 15 mph low speed setting, and 25 mph on high-speed setting. Check with local laws to make sure the vehicle conforms to state and local LSV regulations.

** Battery Warranty is handled through Trojan Battery, see warranty.

*** Vehicle Warranty is handled through Electric Warranty Group EWG. The customer is responsible for registration upon taking ownership. REV serial number must be used to register warranty.

NOTICE

REV – TRANSPORTING (TOWING)



Towing the REV

- Never let passengers ride in/on any vehicle being towed.
 - Do not tow a vehicle on any public roads.
 - Never exceed 5 mph while towing the vehicle.
 - Use approved tow straps to get the vehicle to a trailer or truck, do not tow for long distances.
1. Remove any loose items or cargo from the vehicle being towed.
 2. Never allow people to be between the two vehicles while towing.
 3. First release the electric parking brake, then turn the key switch off and place directional switch into neutral and place the run/tow switch into "TOW". This switch is located under the seat on the passenger side.
 4. Keep the speed at 5 mph or below while towing.
 5. **After towing**, turn the key on and set the electronic parking brake to secure the vehicle. Place the run/tow switch back into the "RUN" position. This switch is located under the seat on the passenger side.
 6. Turnkey off for storage.



Hauling the REV on a Trailer

1. Never let passengers ride in/on and vehicle being transported.
 2. Remove or secure all cargo including using the seat belts to secure the front seat bottom cushion.
 3. Remove the windshield from the vehicle being towed.
 4. Maximum speed with a canopy top installed on an open trailer or tow truck is 60 mph.
 5. Do not tow this vehicle backwards on a trailer or tow truck without securing the above.
- *If the vehicle is being hauled on a trailer or truck at highway speeds (70+mph) the canopy top must be removed.*
 - *If the vehicle is being towed on a trailer or truck below highway speeds, check that canopy hardware is tight and there is no cracks or damage to the top at the mounting points.*

Always secure the vehicle to the trailer or truck with proper tie downs or straps. If the vehicle is equipped with a lithium battery locate the power button, turn it off while transporting.



REV – WARRANTY STATEMENT

LIMITED 2-YEAR WARRANTY / ALL MODELS

REV hereby warrants to the original purchaser of a new Model REV 2+2 or REV 4+2 Model, purchased from an Authorized REV Dealer in the United States, will be free from defects in material and workmanship under normal use and service for the period stated below. Enactment of this Limited Warranty starts from the purchase date and is subject to the provisions, limitations and exclusions contained in this Limited Warranty.

During the Warranty Period an Authorized REV Distributor, Dealer or approved Service Agent of REV will, free of charge, replace or repair, at REV's option, any part that is judged defective by REV due to faulty workmanship or materials from the factory. Parts used in these warranty repairs will be warranted for the balance of the original warranty period. All parts replaced under the warranty will be property of REV.

General Exclusions of this warranty will include any product failures due to:

1. Abuse or neglect such as overcharging, undercharging, improper battery fluid level maintenance, loose wiring or rusted and corroded hardware.
2. Excessive operation of the battery in an undercharged condition "Below half charge - 1200 Specific Gravity Reading"
3. Lack of proper maintenance as described in this Vehicle's Owner's & Operators Manual.
4. Normal wear and tear, neglect, abuse, lack of proper maintenance and use not in conjunction to the Owner's & Operator's Manual.
5. Accident or Collision Damage not caused by REV defective part.
6. Installation of parts & components that are not REV generated or sold by REV.
7. Fading, rust, or deterioration due to exposure outside of normal wear and tear. Vehicles need to be stored with a cover or indoors.
8. Modifications to the vehicle that is outside of the Original Equipment offered. These may affect the condition, operation, performance, and durability of the vehicle in a negative fashion.
9. Damage due to improper transportation.
10. Acts of God such as Hurricanes, tornadoes, lightning, hail damage, flooding, fire, etc.
11. Semiconductor parts such as diodes, fuses, etc. which are vulnerable to electrical overloads (Including lightning strikes).

Transportation expenses for warranty services are excluded from this warranty. This includes any charges incurred in transporting the EV or component of to and from an Authorized REV Dealer for service or in performing field service are also excluded from this warranty.

Understand your new REV comes with an AFTERMARKET WARRANTY Through EWG "Electric Warranty Group" is standard on the REV. Which can help you no matter where you are in the lower 48 states when in need of service!

See the website for more information - <https://www.ewgcorp.com>

www.ewgcorp.com **EWG** 1-844-459-1696

COVERAGE OVERVIEW

Motor	Trans Axle	Charger Plug Receptacle	Electronic Speed Controller
48 volt to 12 volt Converter	Brake Assembly	Wheel Hub & Bearing	Spindle & Swing Arm Assembly
Steering Shaft & Components	Bearings / Bushings	Fittings	Leaf Springs
Shocks	Main and Sub Electric Wiring Harness	Controller	MCoR
Pedal Assembly	Computer Fail Safe System	On-Board Computer (OBC)	OEM Lighting System
All internally lubricated parts	Crankshaft and Bearings	Fuel Pump	Oil Pump
Internal timing Gears & Chain/Belt	Valve Lifters	Camshaft	Camshaft Bearings
Rocker Arm Assembly and Push Rods	Valve Guides	Pistons and Rings	Connecting Rods
Pinion Bearings*	Side Carrier Bearings*	Ring and Pinion Gears	Carrier Assembly*
Thrust Washers*	Axles & Axle Bearings	Engine Block and Cylinder*	Constant Velocity Joints*
Internal Transaxle Seal	Driving Axle Housing*	Seals*	Gaskets*

Additional Details

If a specific part is classified under a different description it will be covered, the function of the like or kind is covered, respectively.

Limited Warranty Agreement does not cover:
Fluid loss, shop supplies, maintenance items, adjustments, alignment, tires, batteries, battery charger, diagnos repairs not covered, freight, and state or local tax are excluded from coverage. Parts that are not expressly listed covered.

The engine block and cylinder heads are covered only if damage is caused by FAILURE of an internally lubricated drive axle housing including pinion bearings, side carrier bearings, ring and pinion gears, carrier assembly, thrust axles, axle bearings, constant velocity joints, internal transaxle seal, and drive axle housing, if damaged by the F an internally lubricated part. Seals and gaskets are covered when replaced in conjunction with a covered FAILURE

Delivery/pickup reimbursement may be available for your covered claim. EWO will pay up to \$50 to the authorized service center contact us for details.

For Gas Cars a \$50 deductible will apply for each covered claim.



REV – FAULT CODES (EXPLAINED)

1 long: Error Code:64	Reason:Press accelerator and turn on the key: Solution: Release the accelerator pedal
1 long 2 short: Error Code:66	Reason: ignition error, controller cannot pre-charged Solution: Turn off the key and then turn on the key.
1 long 3 short: Error Code:67	Reason: overcurrent from Controller Solution: Controller error or over-voltage from cart body
1 long 4 short: Error Code:68	Reason: Over-heat error from Controller(85°C) Solution: Cooling and restart the ignition
1 long 5 short: Error Code:69	Reason:Relay from Controller error Solution: Restart the ignition. If still exist, replace a controller
1 long 7 short: Error code:6B	Reason:Motor encoder failure Solution: Check the cable for motor encoder, if bad connect or flooding water or setting error
1 long 8 short: (Specially for lithium battery) Error code:6C	Reason:communication error Solution:Controller cannot get BMS or cart CAN's high-low cable with bad connect.
1 long 9 short: Error Code:6D	Reason:Low-battery.30 seconds low battery than Voltage setting from Controller
1 long 10 short: Error Code:6E	Reason : Over-voltage from battery battery's Instantaneous voltage exceed the voltage setting from controller
1 long 11 short: Error Code:6F	Reason: Overheat from motor, high to 140°C Solution:Wait the motor cool, restart the ignition
1 long 13 short: Error Code:71	Reason: Accelerator error Solution: Check the 4 wires from Controller if okay. Or replace a new one to try
1 long 14 short: Error Code:72	Reason: Controller detect the cart with charger Solution: Disconnect the charger.
1 long 15 short: Error Code:73	Reason: EM-brake error Solution: Check the EM-brake, if well-connected or damaged
1 long 30 short: Error Code: 82	Reason: On Forward or Reverse position, and start the ignition Solution: Switch to Neutral position, before start the ignition.

ATTENTION
PARKING BRAKE MUST BE APPLIED
BEFORE LEAVING VEHICLE

Please refer to the following references if your REV is equipped with a lithium battery from [ECO BATTERY](#).



GEN2 LITHIUM BATTERY
USER MANUAL

MODELS COVERED:

38V 105AH	A-038105-03
51V 72AH	A-051072-03
51V 105AH	A-051105-01
51V 105AH	A-051105-03
70V 105AH	A-070105-06
51V 160AH	A-051160-06

Click this link to visit the [ECO BATTERY OWNERS MANUAL](#)

Click this link to register your warranty through [ECO BATTERY WARRANTY REGISTRATION](#)

Click this link if you are needing to request a warranty claim [ECO BATTERY WARRANTY CLAIM](#)

