

# POWER GENERATION

## General

This vehicle is powered by an electric motor that receives electricity from a battery pack located underneath vehicle. An auxiliary battery, located in that same area, supplies power to all accessories that are turned on when function selector key is in a position other than OFF.

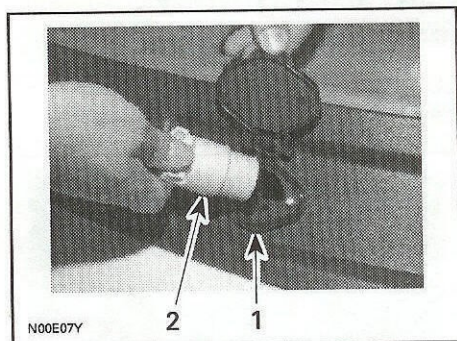
These deep cycle batteries are maintenance free and never require watering.

The electric motor powering this vehicle also acts as a power regenerator when brake pedal is activated and/or when accelerator pedal is released, this helps keeping batteries charged longer.

When kept in good condition, batteries will provide a full hour of service.

For best results, recharge of battery pack is required when battery condition indicator shows more than three LCD bars turned off or if vehicle is not to be used for several days. (see instrument cluster).

To charge batteries, turn OFF function selector key, simply plug an extension cord (110 - 120 volts, 60 Hertz, 15 Amps maximum) to plug-in connector at front of vehicle. Plugging an extension cord turns off power of electric motor and accessories.



1. Plug in connector
2. Extension cord 110-120 Volts, 60 Hertz, 15 Amps fuse

## Power Saving Mode

A timer turns power OFF five seconds after handbrake lever is activated when function selector key is in Reverse, Neutral, or Golf position.

In any other modes, it turns power OFF after 10 minutes of idling (speed = 0). If vehicle is used within 30 minutes lights and accessories will be reactivated. If not used within 30 minutes the function selector key has to be turned to OFF to reset timer.

## Battery Charging

### ◆ WARNING

Batteries emit Hydrogen while being charged. Hydrogen is an explosive gas.

Charging areas must be ventilated.

Never cover vehicle while charging batteries.

Do not use an adapter to plug charger with a three-prong plug into a two-prong outlet. Improper connection of equipment grounding conductor can result in a fire or an electrical shock.

Always disconnect extension cord from vehicle and electrical outlet before driving vehicle.

An extension cord or electrical outlet must accept a three-prong plug. The use of an improper extension cord could result in a fire or an electrical shock.

Only trained dealer staff working with insulated tools should repair or service charger, batteries and other electrical system components.

Batteries will be damaged if completely discharged.

Do not plug charger

- If your power cord is cut or damaged replace it immediately.
- If vehicle is near fuels, grain dust, solvents, thinners or other inflammables. Chargers can ignite flammable materials and vapors.
- If vehicle plug-in connector (AC inlet) is damaged.
- When plug is too loose or does not make a good connection.
- When plug blades or contacts are bent or corroded.
- When plug, receptacle or cords are cut, worn, have any exposed wires, or are damaged in any way.
- When washing vehicle.
- If battery is frozen or if battery case is bulged. A frozen battery can explode.





## CAUTION

Even if vehicle equipped with an automatic "Shut Off" that activates after 12 hours, or when batteries are fully charged, do not leave AC plug plugged in while unattended, for more than one (1) day. Severe overheating and damage to batteries may result, if charger does not turn off.

Do not wait to have all LCD bars erased on battery charging indicator before charging since this situation will shorten battery life.

Each electric vehicle has a fully automatic battery charger as standard equipment. AC cord is to be connected to a source capable of supplying 15 amperes minimum.

AC cord must be plugged to an appropriate dedicated receptacle, properly installed and grounded according to local and national electrical codes and ordinances.

Extension cord must have a three conductor no. 14 AWG heavy duty cord with a ground conductor, in good electrical condition, and being as short as possible. Locate all cords so that they will not be stepped on, tripped over, or otherwise subject to damage or stress.



## WARNING

Keep children away from electrical outlets.

If charging indoor, ventilation fans are recommended and should be located at highest point in the room, and must be capable of changing total volume of air in room five (5) times per hour.

To charge batteries, insert 110-120 V, 60 Hz plug into vehicle plug-in receptacle and charger will turn on automatically.

Fully discharged batteries require approximately 8 hours of charging.

Charger is automatic and will cut off when batteries are fully charged. If charger does not seem to be operating properly, or if batteries seem weak, contact your dealer.

**NOTE:** When night air temperatures falls below freezing point, batteries used in unheated areas should be placed on charge as soon as possible. Cold batteries require more time to fully charge.



## **WARNING**

Do not attempt to charge batteries if frozen or if cases are bulged (batteries are slightly bulged by design), if so, discard battery. Frozen batteries can explode.

Make sure all wire connections at receptacle and fuse link are clean and tight.

Do not rock or bend plug. To connect extension cord to vehicle receptacle, open vehicle plug cover and push extension cord plug straight into receptacle.

Do not pull on cord. Pull on cord plug. Do not twist, rock or bend plug. To disconnect extension cord from vehicle receptacle, grasp cord plug and pull straight out of receptacle.



# OPERATION

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## Before Starting

Operator must be familiar with all controls and operation of this vehicle. Vehicle must be in good condition with charged batteries.

No one should drive vehicle without first being instructed in proper operation and use of vehicle's controls. An experienced operator should accompany each first-time driver on a test drive before they operate vehicle alone. Only licensed drivers should be allowed to drive this vehicle. Vehicle is limited to a driver and one passenger.

## Starting Vehicle

Enter vehicle.

Study and understand controls and instruments.

Everyone must be seated with their seat belt attached. A grab handle is available for passenger.

Read operational warning decal.

Make sure wheels are turned in desired direction.

Turn function selector key to desired position and make sure nobody or nothing is in your path.



## WARNING

**Check area surrounding vehicle, especially when in reverse. Be aware of small children or objects.**

Release handbrake lever. Slowly depress accelerator pedal. Vehicle will start to move and speed will increase as accelerator pedal is depressed until full speed is reached.

**NOTE:** Operator must limit speed especially when going downhill.

## Stopping Vehicle

To stop vehicle, release accelerator pedal and depress brake pedal with your right foot until vehicle comes to a complete stop.

## Post-Operation Care

After stopping vehicle pull up handbrake lever to prevent vehicle from rolling.

Turn function selector key to OFF and remove from switch to avoid unintentional starting of vehicle by kids or other unauthorized people.

Hook up extension cord to charger plug in receptacle when battery condition indicator shows more than three LCD bars turned off or if vehicle is not to be used for several days.

## Vehicle Inspection

After familiarizing yourself with vehicle controls, read and understood driving instructions, take vehicle for a test drive.

Check the following:

- **Brakes:** Make sure brakes function properly. Pedal should not go more than half-way to floor. If it does, have brakes fixed.
- **Steering:** Vehicle should be easy to steer and it should not have any play in steering wheel.
- **Accelerator:** As accelerator pedal is depressed, motor should start and vehicle should smoothly come up to full speed. When pedal is released, it should return to original position and motor should stop. Vehicle runs at lower speed in reverse.
- **General:** Listen for any unusual noises such as squeaks or rattles. Check vehicle's ride and performance. Have your dealer or a trained mechanic investigate anything unusual.

## ◆ WARNING

If renting or loaning vehicle, make sure driver is familiar with all controls and operating procedures before allowing vehicle to be driven.

Vehicle is not equipped for handicapped persons. Prior to allowing anyone to drive, make sure they can operate vehicle properly.

No more than two people should be riding vehicle at one time.

Stop vehicle before shifting in forward or reverse. Failure to do so may result in injury and/or damage. Back up alarm will sound when vehicle is in reverse.

## When Driving the Vehicle

Operate vehicle from driver's seat only.

Remain seated, with seat belt on. Passenger should hold on to grab handle, at all times to prevent falls. Driver should always keep hands on steering wheel.



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Keep all body parts inside vehicle to prevent them from getting caught between vehicle and ground, or other objects.

Drive slowly in turns and drive straight up or down slopes to prevent overturning of vehicle.

Avoid sudden starts, stops and abrupt turns to prevent injuries to an unsuspecting passenger and damages to vehicle.

Reduce speed to avoid losing control or overturning of vehicle, when adapting to driving conditions such as wet grass or rough terrain.

Drivers should be advised that the Bombardier NV is not a motor vehicle as defined by the National Highway Traffic Safety Agency. Thus, it is not designed to protect occupants in the event of a collision. It was designed to be used on golf courses and/or in residential areas with low density traffic, and low speed zones. Refer to your local and state laws for specific details as to where it may be driven.

Obey all local, state and national rules concerning this vehicle.

Vehicle should only be driven in specified areas by trained people.

Never stand in front of or behind vehicle, to avoid being struck.

Do not drive while under influence of alcohol, drug or medication.

Do not drive vehicle with faulty or worn brakes, electrical or other systems. In doubt, see your dealer.

Do not ride brakes. This habit can cause excessive brake wear and can damage, or lead to loss of brakes through overheating. Your brake lights may also confuse traffic behind you.

Driving through deep water may affect brakes and electrical components. Check brake system effectiveness by pressing brake pedal gently. If vehicle does not slow down at normal rate, continue gently applying brakes, while maintaining a safe speed, until they dry out and normal performance returns.

**NOTE:** Power regeneration system will still slow down the vehicle.

Have the electrical system checked by an authorized Bombardier Neighborhood Vehicle dealer.

 **WARNING**

**When stopped on a hill, use brake pedal to hold your position, not accelerator pedal.**

# SPECIAL OPERATIONS

## Towing

Turn function selector key to OFF.

Turn service switch (located in trunk) to OFF. Remove key from switch.

Do not tow more than one (1) Bombardier vehicle at a time.

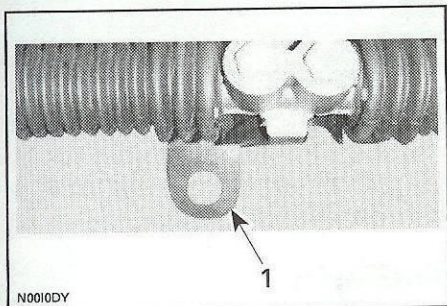
Use only approved rigid tow bars.

Do not exceed 5 MPH (8 km/h). Higher speed can also damage electrical system.

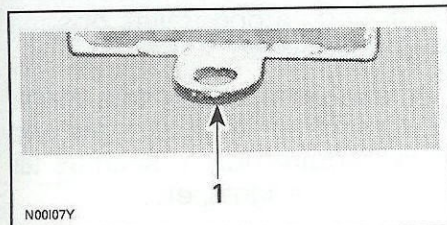
For long distances use a trailer.

### ◆ WARNING

Do not ride in a vehicle being towed.



1. Front tie-down



1. Rear towing tie-down

## Wheel Replacement

### ◆ WARNING

Do not work or place body under vehicle while it is jacked off the ground.

Always put chocks in front and behind front and rear wheels.

Use jack only for wheel changing at jacking points.

Use jack only on a level ground.

Park vehicle on firm level ground.

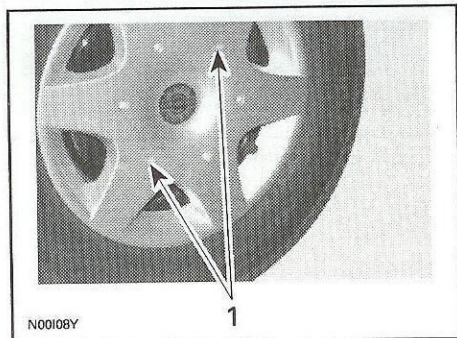
Apply handbrake.

Position function selector keys on OFF.

Turn service switch (located in trunk) to OFF. Remove key from switch.

Block wheels to prevent vehicle from rolling.

Pull off wheel cover by unscrewing two retaining screws.



1. Retaining screws



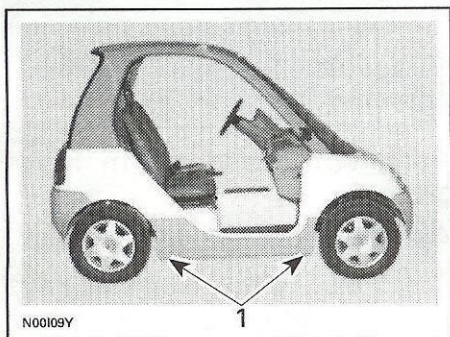
Loosen wheel nuts.

**▼ CAUTION**

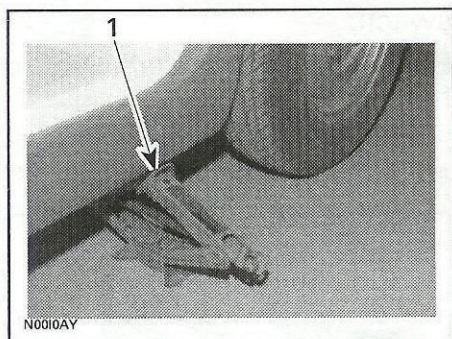
Only loosen nuts, do not remove.

Fit jack at appropriate jacking point.

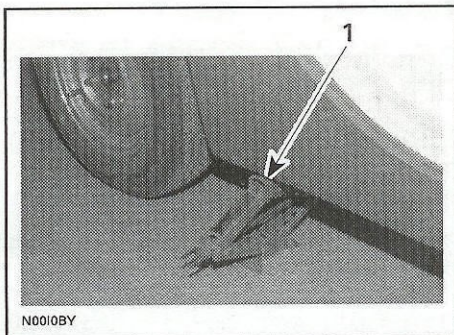
Raise jack and remove wheel nuts and wheel.



1. Jacking points



1. Front jacking point



1. Rear jacking point

## Wheel Installation

Install wheel.

Insert nuts and tighten them partially.

Lower jack and remove it.

Fully tighten the wheel nuts. Torque to 55 lbf•ft (75 N•m).

Install wheel cover with two retaining screws.

Turn service switch to ON.

As a precaution, have the wheel checked for correct tightness by an authorized Bombardier Neighborhood Vehicle dealer.

## Trailer

If your vehicle must be transported, it should be done on an approved flatbed trailer, observing all following.

For use on public roads, trailer must meet all federal, state and local requirements, such as tail lights, brake lights, etc.

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Always use an approved trailer that has a minimum load rating of 1300 lb (580 kg) per vehicle. Never tow a vehicle behind a passenger vehicle or truck, unless it is on an approved trailer in good condition. Refer to trailer *Operator's Guide* for operation and maintenance.

Vehicle should be securely tied down to the trailer, function selector key OFF, service switch OFF, handbrake lever and golf brake pedal, if equipped, firmly activated and locked. Place chocks in front and rear of each wheels.

When towing a trailer, normal speed should be reduced considering a longer braking distance, and care should be used when turning a corner due to added length of trailer.

Cover vehicle to protect it from debris.



## **WARNING**

**Make sure vehicle is properly secured with tie-downs and place chocks in front and behind each wheel.**