

# **BREEZE-S**

The Senior Class Lifestyler

User Manual



**BREEZE-S<sub>3</sub>**



**BREEZE-S<sub>4</sub>**

Designed and manufactured by



### **WARNING**

Read the User's Manual carefully before operating the **Breeze S**.  
If you do not fully understand any part of this Manual,  
Please contact your dealer or any of our Service Center.  
Read this manual step by step, as injury or damage may occur from misuse!

### **WARNING**

Electromagnetic Interference ("EMI") can cause powered vehicles to behave erratically, which could be dangerous to the user.  
For your safety and protection, it is IMPERATIVE that you take time to read Chapter 6 ("EMI WARNING") before operating the **Breeze S**.

Serial Number and Manufacturer's data are fixed at the front area, on the plastic Mud Guard cover on the metal Label of the **Breeze S**.  
**(See 4.6 in figure 3, page 20)**

### **WARRANTY**

**AFIKIM ELECTRIC VEHICLES** strives continuously to improve its products, their quality and reliability in an incessant effort to ensure its customers' satisfaction as well as its place on the market.  
Warranty for the **Breeze S** is subject to your local distributor's warranty.

### **CE CERTIFICATION**

The Afikim Electric Vehicles Ref. Registration Number with the Competent Authority (UK) Is: CA000292.

Our Authorized Representative with the Competent  
Authorities is: MEDES LTD.POB 231  
Stanmore, Middlesex, HA7 4YA, England  
TEL/FAX: 0044-181-954-9964

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## **CHAPTER 1 – OVER VIEW OF THE BREEZE S (MAIN FEATURES)**

Congratulations on choosing the **Breeze S** as your electrically powered Scooter.

The **Breeze S** is a scooter for Elderly and Disabled persons, Fun and Sport. Scooter classification: Class C with according to EN12184.

The **Breeze S** is designed to a maximum occupant mass of 160Kg (352lbs) with 3 Wheels and 200Kg (440lbs) with 4 Wheels.

The **Breeze S** is an outdoor scooter designed to work in normal environment conditions from very cold areas of (-30°C, -22°F) and up to very hot areas up to (+45°C, +113°F).

The **Breeze S** will operate in light splashing rain, but it is not recommended to use the **Breeze S** *at heavy rain or snow conditions for long period.*

The **Breeze S** is easy to operate. The relatively large wheels enable driving on unpaved roads, over medium rough terrain and to overcome obstacles as high as 5" (12 cm).

Pressure inflating of the tires can found in the technical specification table.

The **Breeze S** can climb maximum slopes angles of 20% (11.3°).

The braking system stops the **Breeze S** smoothly and a short distance after the Operating (Speed) Lever is released.

The **Breeze S** is equipped with both Front and Rear Shock Absorbers to give the user the most comfort and soft driving, even when using the vehicle at medium rough terrain roads.

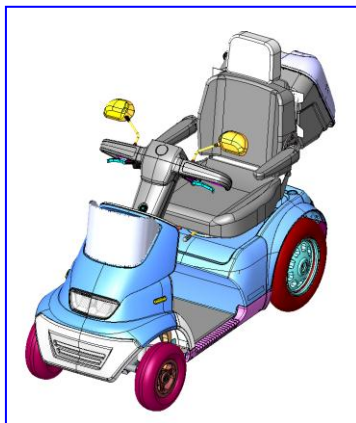
A standard hand brake is also provided for backup.

The Seat is spacious, comfortable and can be rotated for easy access (standard Seats) and adjusted forward/reverse up/down for most fitness to the user.

All controls are conveniently located on the tiller and handlebar and are simple to operate.

Under normal conditions the **Breeze S** can travel approximately 45 km (30 miles) on level surface before the batteries require recharging.

After reading through all this manual, before start using the **Breeze S**, do a visual check through the all parts of the vehicle, to make sure that no external damage has been occur to the vehicle while transportation. In any case you are not sure call your dealer and ask for an explanation.



The **Breeze S** is developed to use dry / gel batteries only.

A Maintenance Manual is available for trained technicians.

## CHAPTER 2 – SAFETY SYMBOLS FOR *BREEZE S*



**WARNING!** An authorized supplier or qualified technician must perform the initial setup of this scooter and must perform all of the procedures in this manual.

The symbols below are used throughout this owner's manual and on the scooter to identify warnings and important information. It is very important for you to read them and understand them completely.



**WARNING!** Indicates a potentially hazardous condition / situation. Failure to follow designated procedures can cause either personal injury, component damage, or malfunction.

On the product, this icon is represented as a black symbol on a Triangle shape.



**MANDATORY!** These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol on a dark background.



**PROHIBITED!** These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a black symbol with a circle and slash.



Please note and strictly adhere to the following Safety Instructions. Additional **Warnings** and Notices are printed in this User's Manual; it is imperative that you read carefully all chapters of this Manual before operating the **Breeze S**. It is also advisable to refresh your memory by re-reading this Manual periodically.



Get acquainted with the **Breeze S** and its operational features before driving it.

Drive slowly (Place Speed Limit knob in mid speed position) until you get used to the **Breeze S**, to its various functions, safety features, and to its braking capabilities and limitations.

Watch carefully for pedestrians and drive your **Breeze S** accordingly. In crowded areas always drive with the Speed Limit knob at half Speed.



Drive only where permitted according to all applicable local laws and ordinances. **Breeze S** is 65 cm (25.5") width. Pay special attention not to hit persons or any objects around the vehicle.



**Never remove any of the *Breeze S* safety parts** like Fenders, Plastic Covers or Emergency Brake lever.

**Never remove any of the **Warnings Labels**.** If any of the Warning labels is removed, got wear, painted etc. ask your dealer to supply you a new labels.



**Never put** your hands, fingers, legs into any moving parts or under any protection cover, since moving parts are under covers and heated surfaces as well.



When adjusting/folding the seat back, armrest, seat sliders (forward / reverse), tiller distance and as well when squeezing the speed lever or hand brake, always be careful that your hands and fingers will not be trapped between any of the moving parts.

Beware from trapping your fingers in the tiller mechanism, when adjusting the tiller – Forward / Reverse.



**Never load the *Breeze S* total loads** (User weight and all other loads combined) more than 160Kg (352lbs) or 200Kg (440lbs) depend on the model including all the baskets.

The load in the Rear Basket should not exceed 10 kg (22 lbs).

The load in the Front Basket should no exceed 8 kg (17.6lbs).

The ***Breeze S*** is designed and built to carry ONE person only on the Single Seat model. Never operate it with an additional person on board, not even a child.



Never inflate the ***Breeze S*** tires more than recommended on the tires by the manufacturer.



Never use the ***Breeze S*** for climbing up or riding down stairs.

Never try to go an obstacle that is more than the maximum recommended slope angle and curb climbing in the specification sheet.

When climbing an Obstacle drive always so that the ***Breeze S*** Front is toward the obstacle.



If for any reason the ***Breeze S*** does not stop when you release the Operating Lever, or stopped after longer distance than regular or higher than 3 meters (level surface) , immediately use the Hand Brake to stop the ***Breeze S*** and turn the Main Key Switch to "OFF". Contact your dealer immediately.



Do not use the ***Breeze S*** neither at heavy rain or extreme humidity conditions nor at temperatures below -30°C (-22°F) or above +45°C (+113°F).



The seat weight is 15 Kg (33lbs). Each battery weight 14 Kg (31lbs) and more. Be careful when lifting the seat and the batteries.

See instruction for lifting in Chapter 3: Maintenance and Chapter 5: Repair and troubleshooting. Keep lifting using your Knees/legs and not loading your Back.



If the **Breeze S** is involved in any kind of an accidents that parts are damaged, it is necessary to check the vehicle by qualified technician before go on using it.



Batteries contain lead and acid which is very corrosive. Batteries should be disposed only to a proper disposal.



When driving always make sure, that the backrest is in most upright position.



Use Lead Acid gel / dry batteries only.



**WARNING !!!** Special care must be taken to prevent children from operating the **Breeze S**.

Do not allow unsupervised children to play near the **Breeze S** scooter while the batteries are charging.



Always drive carefully, adjust the speed according the limitation of the road.

Instability problem can arise when performing turns at high speed. Before making sharp turns, reduce the **Breeze S** speed to minimum to prevent side roll-over.



The **Breeze S** is able to go up slope higher than the recommended safe slope. Do not drive on slopes you are not sure about their angle. However drive very slowly and prevent side driving on such slopes.

Before start driving make sure your emergency brake is tight and operate properly.



Do not release the Manual or Electrical Release Lever of the Electromagnetic Brake when the **Breeze S** is on a slope. When on any sort of an incline or decline, never place the **Breeze S** scooter in freewheel mode while seated on it or standing next to it.



The lights of the **Breeze S** should be on when visibility is restricted, either by day or by night.



Since your seat upholstery is Fire resistant, do not cover or replace with other upholstery than an original one. When removing the Batteries cover be careful from hot parts. The Motor, Transaxle, EMB, Electronic cards and electronic controller might be warmed, Do not touch them before you make sure about their temperature.



Pay attention that your fingers will not be pressed between the levers and the Rubber Grip.



Do not use a cell phone, walkie / talkie, laptop, or other radio transmitter while operating the **Breeze S**.



Removal of grounding prong can create electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access.



Do not connect an extension cord to the AC or DC converter or the battery charger.



Keep tools and other metal objects away from battery terminals. Contact with tools can cause electrical shock. Do not sit on the mobility product when it is being used in connection with any type of lift/elevation product.





Explosive conditions exist!



Disposal and recycling-Contact your authorized Provider for information on proper disposal of your **Breeze S** product and its packaging.



Wear safety glasses.



Contains Lead.



Battery charger for indoor use only.



Flammable material. Do not expose to open flame.



At the rear of the Breeze S you can find the electromagnetic brake manual release lever. When using this lever be careful not to touch the internal surface of the motor, they could be very hot and cause injury. See the warning label at the rear of the scooter near the lever.

## CHAPTER 2 – SAFETY INSTRUCTIONS FOR *BREEZE S*

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### GENERAL



**MANDATORY!** Do not operate your new **Breeze S** scooter for the first time without completely reading and understanding this owner's manual.

Your Breeze S is a state-of-the-art life-enhancement device designed to increase mobility. We provide you an extensive variety of products to best fit the individual needs of the user. Please be aware that the final selection and purchasing decision regarding the type of **Breeze S** scooter to be used is the responsibility of the user who is capable of making such a decision and his/her healthcare professional (i.e., medical doctor, physical therapist, etc.). The contents of this manual are based on the expectation that a mobility device expert has properly fitted the **Breeze S** scooter to the user and has assisted the prescribing healthcare professional and/or the authorized Provider in the instruction process for the use of the product.

There are certain situations, including some medical conditions, where the user will need to practice operating the **Breeze S** scooter in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a user in various daily living activities. As you begin using your **Breeze S** scooter during daily activities, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you maneuver through doorways, on and off elevators, up and down ramps, and over moderate terrain. Below are some precautions, tips, and other safety considerations that will help the you become accustomed to operating the **Breeze S** scooter safely.

### MODIFICATIONS



We have designed and engineered your **Breeze S** Scooter to provide maximum mobility and utility. However, under no circumstances should you modify, add, remove, or disable any feature, part, or function of your **Breeze S** Scooter.

**WARNING!** Do not modify your **Breeze S** Scooter in any way not authorized by the manufacturer. Do not use accessories if they have not been tested or approved by the manufacturer.

### REMOVABLE PARTS



**WARNING!** Do not attempt to lift or move your **Breeze S** Scooter by any of its removable parts , including the armrests, seat, or shroud.

## PRE-RIDE SAFETY CHECK

Get to know the feel of your **Breeze S** Scooter and its capabilities. We recommend that you perform a safety check before each use to make sure your **Breeze S** Scooter operates smoothly and safely.

Perform the following inspections prior to using your scooter:



- ✓ Check for proper tire inflation. Maintain but do not exceed the psi/bar/kPa air pressure rating indicated on each tire if equipped with pneumatic tires.
- ✓ Check all electrical connections. Make sure they are tight and not corroded.

- ✓ Check all harness connections. Make sure they are secured properly.
- ✓ Check the brakes.
- ✓ Check battery charge.
- ✓ If you discover a problem, contact your authorized **Breeze S** Provider for assistance.

## TIRE INFLATION



Your **Breeze S** scooter is equipped with pneumatic tires, you should check or have the air pressure checked at least once a week. Proper inflation pressures will prolong the life of your tires and help ensure the smooth operation of your **Breeze S** scooter.

**WARNING!** It is critically important that the psi/bar/kPa air pressure indicated on each tire be maintained in pneumatic tires at all times. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to maintain the psi/bar/kPa air pressure rating indicated on pneumatic tires at all times may result in tire and/or wheel failure. **WARNING!** Inflate your scooter tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire.

**NOTE:** If the tires on your **Breeze S** scooter marked with psi rating only, use the following conversion formulas to find the bar or kPa rating:

**bar = psi x 0.06895, kPa = psi x 6.89476.**

## WEIGHT LIMITATIONS



Your scooter is rated for a maximum weight capacity. Refer to the specifications table for information. See appendix A.

**MANDATORY!** Stay within the specified weight capacity for your **Breeze S** scooter. Exceeding the weight capacity voids your warranty.

We will not be held responsible for injuries and / or property damage resulting from failure to observe weight limitations.

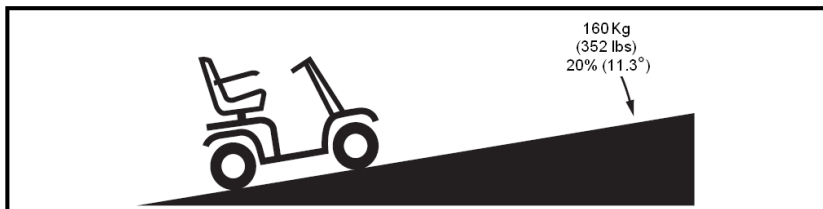
**WARNING!** Do not carry passengers on your scooter. Carrying passengers on your **Breeze S** scooter may affect instable conditions.

## INCLINE INFORMATION



More and more buildings have ramps with specified degrees of inclination, designed for easy and safe access. Some ramps may have turning switchbacks (180-degree turns) that require you to have good cornering skills on your **Breeze S** scooter.

- ✓ Proceed with extreme caution as you approach the downgrade of a ramp or incline.
- ✓ Take wide swings with your **Breeze S** scooter around any tight corners. If you do that, the scooter's rear wheels will follow a wide arc, do not cut the corner short, and do not bump into or get hung up on any railing corners.
- ✓ When driving down a ramp, keep the **Breeze S** scooter's speed adjustment set to the slowest speed setting to ensure a safely controlled descent.
- ✓ Avoid sudden stops and starts.



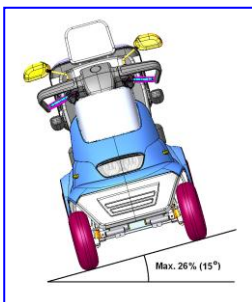
**Figure A. Maximum Recommended Incline Angle**

When climbing an incline, try to keep your **Breeze S** scooter moving. If you must stop, start up again slowly, and then accelerate cautiously. When driving down an incline, do so by setting the speed adjustment dial to the slowest setting and driving in the forward direction only. If your **Breeze S** scooter starts to move down the incline faster than you anticipated or desired, allow it to come to a complete stop by releasing the throttle control lever. Then push the throttle control lever forward slightly to ensure a safely controlled descent.

**WARNING!** When on any sort of an incline or decline, never place the **Breeze S** Scooter in freewheel mode while seated on it or standing next to it.

**WARNING!** When climbing an incline, do not zigzag or drive at an angle up the face of the incline. Drive your **Breeze S** Scooter straight up the incline. This greatly reduces the possibility of a tip or a fall. Always exercise extreme caution when negotiating an incline.

**WARNING!** Do not drive your **Breeze S** Scooter across the side of an incline or diagonally up or down an incline; do not stop, if possible, while driving up or down an incline.



**WARNING!** You should not travel up or down a potentially hazardous incline (i.e., areas covered with snow, ice, cut grass, or wet leaves).

### **WARNING!**

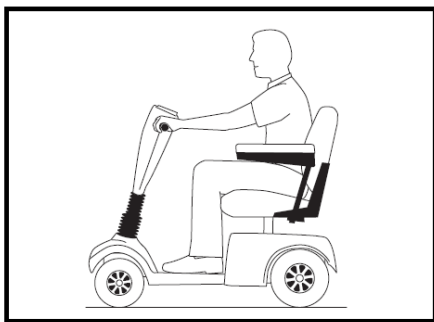
Even though your **Breeze S** Scooter is capable of climbing slopes greater than those illustrated in figure A, do not, under any circumstances, exceed the incline guidelines or any other specifications presented in this manual. Doing so could cause instability in your **Breeze S** scooter.

Handicap public access ramps are not subject to government regulation in all countries, and therefore do not necessarily share the same standard percent of slope. Other inclines may be natural or, if man-made, are not designed specifically for **Breeze S** Scooters. **Figure A** illustrates your **Breeze S** Scooter's stability and its ability to climb grades under various weight loads and under controlled testing conditions.

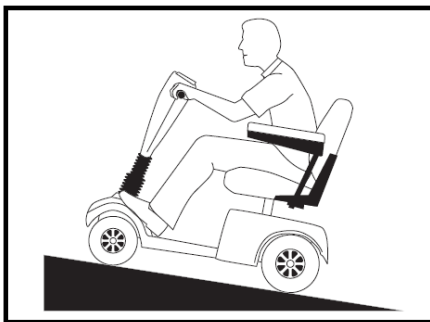
These tests were conducted with the **Breeze S** Scooter's seat in the highest position and adjusted rearward on the seat base to its farthest rearward position. Use this information as a guideline. Your **Breeze S** Scooter's ability to travel up inclines is affected by your weight, your **Breeze S** Scooter's speed, your angle of approach to the incline, and your **Breeze S** scooter setup.

**WARNING!** Any attempt to climb or descend a slope steeper than what is shown in **Figure-A** may put your **Breeze S** scooter in an unstable position and cause it to tip.

**WARNING!** Never carry an oxygen tank weighing more than 15 lbs (6.8 kg). Never fill the front or rear basket with contents exceeding 5 Kg (11 lbs) in the front and 8 Kg (17.6lbs) in the rear basket.



**Figure B. Normal Driving Position**



**Figure C. Increased Stability Drive**

When you approach an incline, it is best to lean forward. **See Figures B and C.** This shifts the center of gravity of you and your **Breeze S** Scooter toward the front of the **Breeze S** scooter for improved stability.

**NOTE:** *When negotiating ramps, if the throttle control lever is released while moving forward, the powered Breeze S Scooter may "rollback" approximately 1 foot (30.5 cm) before the brake engages. If the throttle control lever is released while moving in reverse, the powered Breeze S scooter may "rollback" approximately 3 feet (one meter) before the brake engages.*

## **CORNERING INFORMATION**

Excessively high cornering speeds can create the possibility of tipping. Factors which affect the possibility of tipping include, but are not limited to, cornering speed, steering angle (how sharply you are turning), uneven road surfaces, inclined road surfaces, riding from an area of low traction to an area of high traction (such as passing from a grassy area to a paved area – especially at high speed while turning), and abrupt directional changes. High cornering speeds are not recommended. If you feel that you may tip over in a corner, reduce your speed and steering angle (i.e., lessen the sharpness of the turn) to prevent your **Breeze S** scooter from tipping.

**WARNING!** When cornering sharply, reduce your speed and maintain a stable center of gravity. When using your **Breeze S** scooter at higher speeds, do not corner sharply. This greatly reduces the possibility of a tip or fall. Always exercise your senses when cornering.

## **BRAKING INFORMATION**

Your **Breeze S** scooter is equipped with these powerful brake systems:

- ✓ Regenerative: Uses electricity to rapidly slow the vehicle when the throttle control lever returns to the centre/stop position.
- ✓ Disc Park Brake: Activates mechanically after regenerative braking slows the vehicle to near stop, or when power is removed from the system for any reason.

## **OUTDOOR DRIVING SURFACES**

- ✓ Your **Breeze S** scooter is designed to provide optimum stability under normal driving conditions- dry, level surfaces composed of concrete, blacktop, or asphalt. However, We recognizes that there will be times when you will encounter other surface types. For this reason, your **Breeze S** Scooter is designed to perform admirably on packed soil, grass, and gravel. Feel free to use your **Breeze S** Scooter safely on lawns and in park areas.
- ✓ Reduce your **Breeze S** Scooter's speed when driving on uneven terrain and/or soft surfaces.
- ✓ Avoid tall grass that can become tangled in the running gear.
- ✓ Avoid loosely packed gravel and sand.
- ✓ If you feel unsure about a driving surface, avoid that surface.

## **PUBLIC STREETS AND ROADWAYS**

**WARNING!** You should not operate your **Breeze S** scooter on public streets and roadways.

Be aware that it may be difficult for traffic to see you when you are seated on your **Breeze S** Scooter. Obey all local pedestrian traffic rules. Wait until your path is clear of traffic, and then proceed with extreme caution.

## **STATIONARY OBSTACLES (STEPS, CURBS, ETC.)**



**WARNING!** Do not drive near raised surfaces, unprotected ledges, and/or drop-offs (curbs, porches, stairs, etc.).

**WARNING!** Do not attempt to have your **Breeze S** Scooter climb or descend an obstacle that is inordinately high.

**WARNING!** Do not attempt to have your **Breeze S** Scooter proceed backward down any step, curb, or other obstacle. This may cause the

**Breeze S** Scooter to tip.

**WARNING!** Be sure your **Breeze S** Scooter is traveling perpendicular to any curb you may be required to ascend or descend.

**WARNING!** Do not attempt to negotiate a curb that has a height greater than 12 cm (5").

## INCLEMENT WEATHER PRECAUTIONS

Exposure of your **Breeze S** Scooter to inclement weather conditions should be avoided whenever possible.

If suddenly caught up in rain, snow, severe cold or heat while operating your **Breeze S** Scooter, proceed to shelter at the earliest opportunity. Thoroughly dry your **Breeze S** Scooter before storing, charging, or operating your **Breeze S** Scooter.

**PROHIBITED!** Operating in rain, snow, salt, mist/spray conditions, and on icy slippery

surfaces can have an adverse affect on the electrical system. Maintain and store your **Breeze S** Scooter in a dry and clean condition.

**WARNING!** Prolonged exposure to hot or cold conditions may affect the temperature of upholstered and non-upholstered items on the **Breeze S** Scooter, possibly resulting in skin irritation. Exercise caution when using your **Breeze S** Scooter in extremely hot or cold conditions or when exposing your **Breeze S** Scooter to direct sunlight for prolonged periods of time.

## FREEWHEEL MODE



Your **Breeze S** Scooter is equipped with a manual freewheel lever that, when pushed Upward, allows the **Breeze S** scooter to be pushed. For more information about how to place your **Breeze S** scooter into and out of freewheel mode, see 3. "General description of your **Breeze S** scooter."

**WARNING!** When your **Breeze S** scooter is in freewheel mode, the braking system is disengaged.

- ✓ Disengage the drive motors only on a level surface.
- ✓ Ensure the key is removed from the key switch.
- ✓ Stand beside the **Breeze S** Scooter to engage or disengage

freewheel mode. Never sit on a **Breeze S** Scooter to do this.

✓ After you have finished pushing your **Breeze S** Scooter, always return it to the drive mode to lock the brakes.

✓ An added feature built into the **Breeze S** Scooter is "push-too-fast" protection which safeguards the **Breeze S** scooter against gaining excessive speed while in freewheel mode.

"Push-too-fast" operates differently depending on which of two conditions exists:

✓ If the key is switched "off" while in freewheel mode, the **Breeze S** scooter's controller activates regenerative braking when the **Breeze S** scooter is pushed faster than a maximum threshold which has been preprogrammed. In this case, the controller is acting as a speed governor.

✓ If the key is switched "on" while in freewheel mode, you will encounter considerable resistance at any speed. This prevents the **Breeze S** scooter from gaining unwanted momentum should the manual freewheel lever inadvertently be released while driving the **Breeze S** scooter.

✓ When using this lever be careful not to touch the internal surface of the motor, they could be very hot and cause injury. See the warning label at the rear of the scooter near the lever.

## STAIRS AND ESCALATORS

**Breeze S** scooters are not designed to travel up or down stairs or escalators. Always use an elevator.

**WARNING!** Do not use your **Breeze S** scooter to negotiate steps or escalators.

## DOORS

- ✓ Determine if the door opens toward or away from you.
- ✓ Use your hand to turn the knob or push the handle or push-bar.
- ✓ Drive your **Breeze S** Scooter gently and slowly forward to push the door open.
- ✓ Or drive your **Breeze S** Scooter gently and slowly rearwards to pull the door open.

## ELEVATORS

Modern elevators have a door edge safety mechanism that, when pushed, reopens the door(s).

✓ If you are in the doorway of an elevator when the door(s) begin to close, push on the rubber door edge or allow the rubber door edge to contact the **Breeze S** scooter and the door will reopen.

✓ Use care that pocketbooks, packages, or **Breeze S** Scooter accessories do not become caught in elevator doors.

**NOTE:** Sometimes turning with your **Breeze S** Scooter may be difficult to maneuver in elevators and building entrances. Use caution when attempting to turn or maneuver your **Breeze S** Scooter in small spaces, and avoid areas that might pose a problem.

## LIFT/ELEVATION PRODUCTS

If you will be traveling with your **Breeze S** scooter, you may find it necessary to use a lift/elevation product to aid in transportation. We recommends that you closely review the instructions, specifications, and safety information set forth by the manufacturer of the lift/elevation product before using that product.

**WARNING!** Never sit on your **Breeze S** Scooter when it is being used in connection with any type of lift/elevation product. Your **Breeze S** Scooter was not designed with such use in mind and any damage or injury incurred from such use is not the responsibility of us.

## BATTERIES (see also replacing batteries page #32)



In addition to following the warnings below, be sure to comply with all other battery handling information.

**MANDATORY!** Battery posts, terminals, and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries and wash hands after handling.

**WARNING!** Scooter batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Use proper lifting techniques and avoid lifting beyond your capacity.

**WARNING!** Always protect the batteries from freezing and never charge a frozen battery.

**WARNING!** Connect the battery harnesses in the proper manner. RED (+) cables must be connected to positive (+) battery terminals/posts. BLACK (-) cables must be connected to negative (-) battery terminals/posts. REPLACE cables immediately if damaged. Protective caps must be installed over all battery terminals.



**NOTE:** If you encounter a damaged or cracked battery, immediately enclose it in a plastic bag and contact your local waste disposal agency or authorized **Breeze S** Provider for instructions on disposal and battery recycling, which is our recommended course of action.

## MOTOR VEHICLE TRANSPORT

Do not remain seated in your **Breeze S** scooter while traveling in a motor vehicle. The **Breeze S** scooter should be stowed in the trunk of a car or in the back of a truck or van with the batteries removed and properly secured. In addition, all removable **Breeze S** scooter parts, including the armrests, seat, and shroud should be removed and/or properly secured during motor vehicle transport.

**WARNING!** Although your **Breeze S** scooter may be equipped with a positioning belt, this belt is not designed to provide restraint during motor vehicle transport. Anyone travelling in a motor vehicle should be properly secured in the motor vehicle seat with safety belts fastened securely.

**WARNING!** Do not sit on your **Breeze S** scooter while it is in a moving vehicle.

**WARNING!** Always be sure your **Breeze S** scooter and its batteries are properly secured when it is being transported. Batteries should be secured in an upright position, and protective caps should be installed on the battery terminals. Batteries should not be transported with any flammable or combustible items.

## POSITIONING BELTS

Although your **Breeze S** scooter may be equipped with a positioning belt, this belt is not designed to provide proper restraint during motor vehicle transport. Anyone traveling in a motor vehicle should be properly secured in the motor vehicle seat with safety belts fastened securely.

**WARNING!** Do not sit on your **Breeze S** scooter while it is in a moving vehicle.

**WARNING!** Ensure your **Breeze S** scooter and its batteries are properly secured when being transported.

## PREVENTING UNINTENDED MOVEMENT

**WARNING!** If you anticipate being seated in a stationary position for an extended period of time, turn off the power. This will prevent unexpected motion from inadvertent throttle control lever contact.

## GETTING ONTO AND OFF OF YOUR **Breeze S** SCOOTER



Getting onto and off of your **Breeze S** scooter requires a good sense of balance. Please observe the following safety tips when getting onto and off of your **Breeze S** scooter:

- ✓ Remove the key from the key switch.
  - ✓ Ensure that your **Breeze S** scooter is not in freewheel mode.
- See 3- "General description of the **Breeze S** scooter."

✓ Ensure that the seat is secured into place.

✓ Pivot the armrests up to make getting onto and off of the **Breeze S** scooter easier.

**WARNING!** Position yourself as far back as possible in the **Breeze S** scooter seat to prevent the **Breeze S** scooter from tipping and causing injury.

**WARNING!** Avoid putting all of your weight on the **Breeze S** scooter armrests and do not use the armrests for weight bearing purposes, such as transfers. Such use may

cause the **Breeze S** scooter to tip, resulting in a fall from the **Breeze S** scooter and/or personal injury.

**WARNING!** Avoid putting all of your weight on the floorboard. Such use may cause the **Breeze S** scooter to tip.

## REACHING AND BENDING

Avoid reaching or bending while driving your **Breeze S** Scooter. Bending forward creates the risk of accidental throttle control lever contact. Bending to the side while seated creates the risk of tipping. It is important to maintain a stable centre of gravity and keep the **Breeze S** Scooter from tipping. We recommend that the **Breeze S** scooter user determine his/her personal limitations and practice bending and reaching in the presence of a qualified attendant.

**WARNING!** Do not bend, lean, or reach for objects if you have to pick them up from the **Breeze S** Scooter deck or from either side of the **Breeze S** scooter. Movements such as these may change your center of gravity and the weight distribution of the **Breeze S** scooter and cause your **Breeze S** scooter to tip.

**PROHIBITED!** Keep your hands away from the tires and wheels when driving. Be aware that loose fitting clothing can become caught in drive tires and wheels.

## PRESCRIPTION DRUGS/PHYSICAL LIMITATIONS

The **Breeze S** scooter user must exercise care and common sense when operating his/her **Breeze S** scooter. This includes awareness of safety issues when taking prescribed or over-the-counter drugs or when the user has specific physical limitations.

**WARNING!** Consult your physician if you are taking prescribed or over-the-counter medication or if you have certain physical limitations. Some medications and limitations may impair your ability to operate your **Breeze S** scooter in a safe manner.

## ALCOHOL/SMOKING



The **Breeze S** scooter user must exercise care and common sense when operating his/her **Breeze S** scooter. This includes awareness of safety issues while under the influence of alcohol, or while smoking.

**WARNING!** Do not operate your **Breeze S** Scooter while you are under the influence of Alcohol, as this may impair your ability to operate the **Breeze S** scooter in a safe manner.

**WARNING!** The manufacturer strongly recommends that you do not smoke cigarettes while seated on your **Breeze S** scooter, although the **Breeze S** scooter seat has passed the necessary testing requirements for cigarette smoking. You must adhere to the following safety guidelines if you decide to smoke cigarettes while seated on your **Breeze S** scooter.

- ✓ Do not leave lit cigarettes unattended.
- ✓ Keep ashtrays a safe distance from the seat cushions.
- ✓ Always make sure cigarettes are completely extinguished before disposal.

## ELECTROMAGNETIC AND RADIO FREQUENCY INTERFERENCE (EMI/RFI)



**WARNING!** Laboratory tests have shown that electromagnetic and radio frequency waves can have an adverse affect on the performance of electrically-powered mobility vehicles.

Electromagnetic and Radio Frequency Interference can come from sources such as cellular phones, mobile two-way radios (such as walkie-talkies), radio stations, TV stations, amateur radio (HAM)

transmitters, wireless computer links, microwave signals, paging transmitters and medium-range mobile transceivers used by emergency vehicles. In some cases, these waves can cause unintended movement or damage to the control system. Every electrically-powered mobility vehicle has an immunity (or resistance) to EMI. The higher the immunity level, the greater the protection against EMI. This product has been tested and has passed at an immunity level of 20 V/M.

**WARNING!** Be aware that cell phones, two-way radios, laptops, and other types of radio transmitters may cause unintended movement of your electrically-powered mobility vehicle due to EMI. Exercise caution when using any of these items while operating your mobility vehicle and avoid coming into close proximity of radio and TV stations.

**WARNING!** The addition of accessories or components to the electrically-powered mobility vehicle can increase the susceptibility of the vehicle to EMI. Do not modify your **Breeze S** scooter in any way not authorized by the manufacturer.

**WARNING!** The electrically-powered mobility vehicle itself can disturb the performance of other electrical devices located nearby, such as alarm systems.

**NOTE:** For further information on EMI/RFI, ask your authorized supplier.

## CHAPTER 3 – GENERAL DESCRIPTION OF THE *BREEZE S*

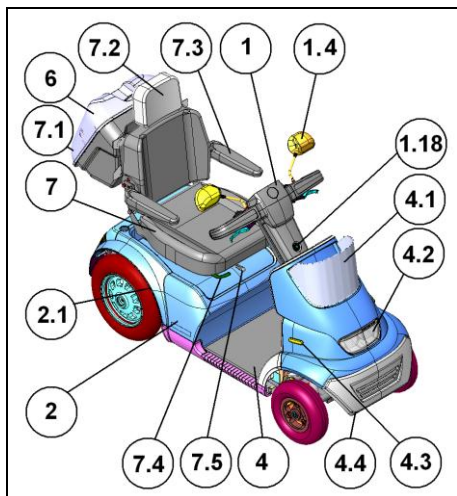


Figure 1

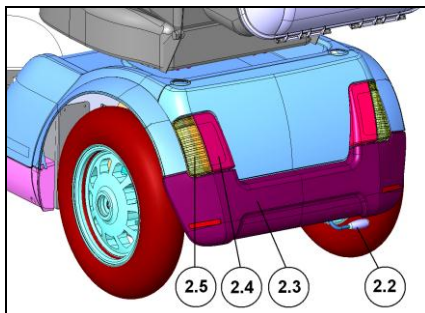


Figure 2

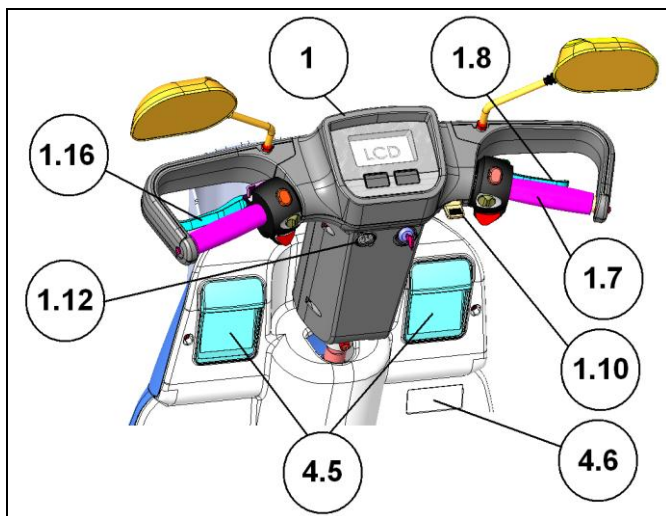
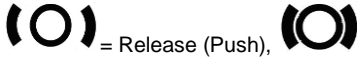


Figure 3

**Note:** The numbers in parentheses refer to the parts illustrated on Figure 1+2+3.

Keys/Cellphone pockets (4.5)	Right & Left
Machine plate with Serial number (4.6)	Serial Number and Manufacturer's data are fixed on the mud guard in front of your foot.
Tiller (1 ) / Handlebars (1.7)	Your <b>Breeze S</b> is designed for both hand operation, But it is delivered to you with right-hand controls. (Left-hands controls can be setup by your dealer).
Mirror (1.4)	Every <b>Breeze S</b> is supplied with 1 or 2 mirrors.
Operating Speed lever (1.8)	Use to control the <b>Breeze S</b> speed.
Brake Lever (1.16)	Use to brake in emergency conditions or when needed.
Charging Socket (1.12)	The socket is used to connect the charger plug for batteries charging. Right hand side of the Handlebar.
Handlebars Adjusting Lever (1.10)	The Handlebar of the <b>Breeze S</b> is adjustable Forward and Reverse by releasing the Adjusting Lever.
Buzzer (1.18)	Use to alarm the people around when needed.
Front Basket (4.1)	For carrying parcels and personal effects. Maximum load 8 kg (17.6 lbs).
Headlight (4.2) and Front Blinks (4.3)	(a) Road light for dark hours (b) Blink light for turnings signals
Front Bumper (4.4)	
Battery Cover (2)	Protect the power unit, electronics and batteries.
Fuses (2.1a, 2.1b)	2.1a - Main fuses 70A – Semi Automatic 2.1b - Charge fuse 15A –Semi Automatic Located between the rear wheel and the battery cover.
Manual Release of electromagnetic brake (2.2)	The lever is at the rear area of the <b>Breeze S</b> . Manual release lever allow you to push or pull the <b>Breeze S</b> manually. Push / Pull the lever as shown in the label:  = Release (Push), = Engaged (Drive). When the lever is in released position the <b>Breeze S</b> can not be operated / drive. <b>Note:</b> Never release the lever when the <b>Breeze S</b> is on slope.
Rear Bumper (2.3)	
Rear Pilot & Brake lights (2.4)	
Rear Blinks (2.5)	
Seat (7)	The <b>Breeze S</b> seat is equipped with folding armrests (7.3) to allow convenient access to the Seat. The Seat itself can be rotated to allow easy access.
Seat Back Rest (7.1)	
Seat Head Rest (7.2)	
Arm Rest (7.3)	Use for comfort entrance, Folded.
Seat Forward / Reverse Lever (7.4)	The Lever is used to change the seat position Forward and Reverse, to fit the driver mostly.
Seat Rotation Lever (7.5)	The Lever is used to swivel the Seat 45 and 90 degrees in either direction, to ease the driver's access to the Seat.
Seat Height adjust	The Seat Height can be adjusted Up / Down to fit the user height. This adjustment can be made by a technician. For adjusting the seat height , you need to remove the seat and the batteries cover , then remove the screw that secure the seat pin and to reassemble it at another hole as desired, than re-secure the screw.
Rear Box (6)	For carrying parcels and personal effects. Max. load 10 kg (22 lbs).
Floor (4)	Carpet covered. Possible to remove for cleaning.

## CHAPTER 4 – ADJUSTMENTS INSTRUCTIONS

(Reference numbers refer to the figures #4 and #5)

Adjusting the Tiller angle (1.7)	Adjust the Angle of tiller as follows: <ul style="list-style-type: none"> <li>Release the Handlebars Adjusting Lever (1.10), by pushing the lever down.</li> <li>Release the lever at the desired place.</li> </ul>
Adjusting of the Tiller Height	Tiller height can be adjusted by technician about 40mm.
Seating into the <b>Breeze S</b>	<p>Before driving the <b>Breeze S</b> make sure that the Charging Plug is disconnected from the Charging Socket (1.12).</p> <p><b>Note: While the Charging Plug is inserted in the Charging Socket, the Breeze S cannot be operated.</b></p> <p>Use the Lever (7.5) to rotate the Seat to the side for easy access. Raise the Armrest (7.3) to give you easy access to the Seat.</p> <p>Adjust the seat Forward Reverse using the Lever(7.4)</p>
Handlebars and Hand protectors	When driving always keep your hands on the handlebars (1.7) and within the hand protectors (1.6).
Adjust the shock absorbers to the user.	If it is possible to adjust the rear shock absorber to the required load or way of using the Breeze. If needed, ask a technician to adjust the absorbers for your needs..

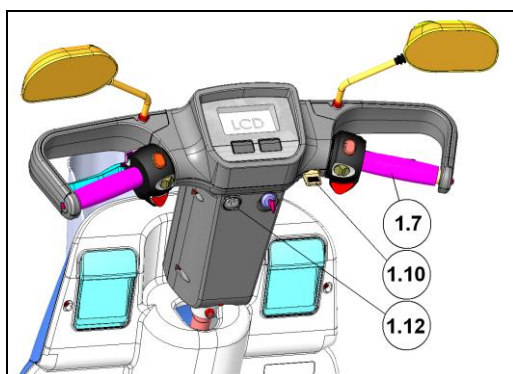


Figure 4

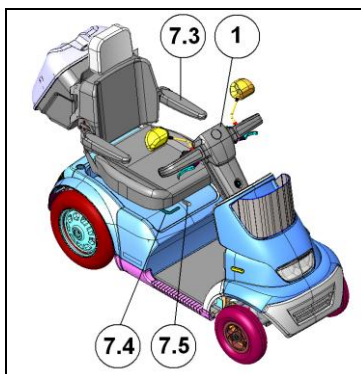
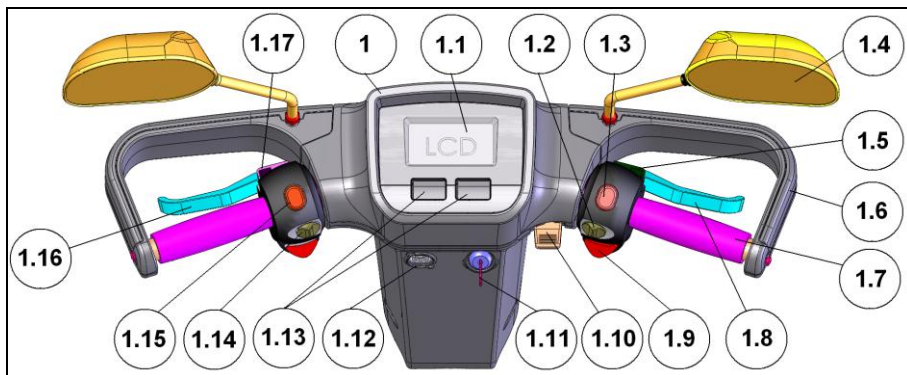


Figure 5



### Figure 6

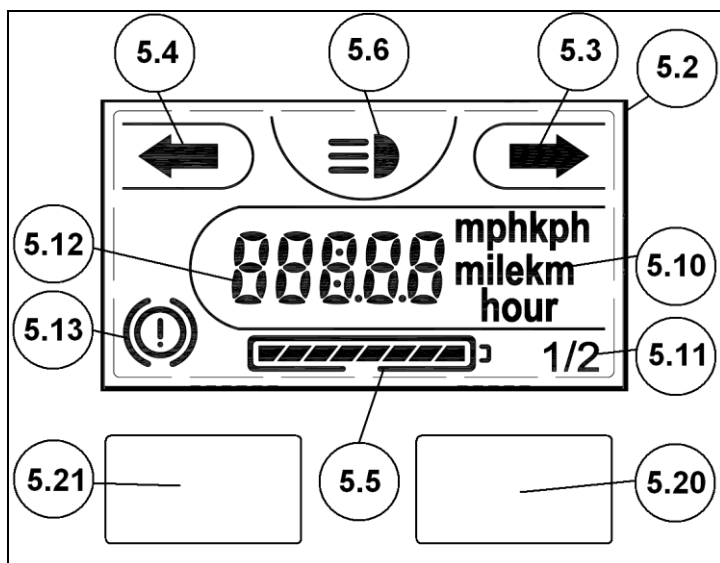
(Numbers in the table refers to figure no.6 and figure no.7)

Key Switch (1.11)	<p>✓ The <b>Breeze S</b> has a Main Key Switch (1.11) - located at the top of the Tiller Box (1).</p> <p><b>The Main Key Switch has two positions:</b></p> <p>✓ <b>“OFF”</b> - The <b>Breeze S</b> cannot be driven and the Electromagnetic Brake is locked.</p> <p>✓ <b>“ON”</b> - Power is supplied to the <b>Breeze S</b>. The Electromagnetic Brake releases automatically when the Operating Speed lever is squeezed.</p> <p>To operate the <b>Breeze S</b>, insert the key into the Main Key Switch and turn it to “ON” (clockwise). The switch will remain in this position and the LCD (1.1) will be lit.</p> <p><b>Note :</b> Key Switch is used for operating the <b>Breeze S</b> , but not for locking .</p>
Automatic Shut Off	<p>When Key Switch is at “ON” position, after a few minutes (usually 20 minutes) without using the Operating Lever, the control system will be shut off automatically to save battery energy.</p> <p>In such cases, to restart control system, turn Main Key Switch “OFF” and “ON” again.</p>
Adjusting the Hand Brake	<p>The hand brake cable mechanism can be adjusted by an authorized technician.</p> <p><b>The Hand Brake is part of your safety system.</b></p> <p><b>DO NOT adjust the Hand Brake by yourself-get professional assistance</b></p>
Speed Operating Lever and Manual Hand Brake	<p>To start driving, squeeze the operating Speed Lever (1.8) gently until you reach the desired speed. The speed is directly proportional to the deflection of this Lever.</p> <p>To stop-release the operating Speed Lever (1.16) , The <b>Breeze S</b> will stop gradually , automatically.</p> <p><b>Note: Additionally, emergency braking is possible using the Manual Hand Brake (1.16).</b></p>
Signaling	<p>Before turning, push the “Turn Signal Switch” (1.14), on the Handlebar to the desired direction - left for left, right for right.</p> <p>To stop the signal lights just push again on the same button.</p> <p>While blinkers signals are activated, the Right (5.3) / Left (5.4) signs will</p>

	<p>operate respectively.</p> <p>A warning buzzer may also be sounds (in certain models only and subject to local ordinances).</p>
Horn/Buzzer	<p>Push one of the 2 Buttons (1.9) to activate the buzzer.</p> <p>The buzzer sounds automatically under the following conditions (<i>subject to change where prohibited by law</i>):</p> <ol style="list-style-type: none"> <li>1. When reversing.</li> <li>2. When operating the "Turn Signal" (Right or Left).</li> </ol> <p><b>Remark:</b> It is possible to change the Buzzer Functioning by changing a Dip Switch in the front Board .This needs to be made by a trained technician.</p>
Headlight Switch	<p>Turn on the Headlight and rear lights by pushing the Light button (1.15). This button activates both the Headlight and the Rear Lights.</p> <p>When Lights are activated the Light Led (5.6) is lit.</p> <p>To turn off the lights , push the button again.</p>
Hazard Warning	<p>The Hazard Button (1.17) operates all flashing lights on the <b>Breeze S</b>. Pushing the button once turns the all the lights ON blinking.</p> <p>A second push turns them OFF.</p> <p>When Hazard is activated both signals (5.3+5.4) are Flashing.</p>
Charge Inhibit	<p>When the Vehicle is being charged it is inhibited. In this condition no driving can be done. When being charged ON condition the signal (5.13) will lit.</p>
Safe driving	<p>When driving on Ramp , Steep Curbs and turns drive the <b>Breeze S</b> very slowly and carefully , even consider changing the Half Speed Switch (1.2) to Half speed mode.</p> <p>When going up or down a step always drive the <b>Breeze S</b> so that the wheels will get in perpendicular direction to the step and the rear wheels wheel climb or go down together.</p> <p>Never try to go on an obstacle that is more than the maximum recommended slope angle and curb climbing. Maximum rates are in the specification sheet.</p> <p><b>Always drive carefully, adjust the speed according the limitation of the road.</b></p> <p><b>Before making sharp turns , reduce the Breeze S speed to Half Speed to prevent side roll-over.</b></p>
Parking	<p>After stopping, turn the Main Key Switch (1.11) to OFF and remove the key. The LCD will turn OFF. The Electromagnetic Brake is engaged (locked).</p> <p><b>Note: The Electromagnetic Brake is automatically locked whenever the Operating Lever is released and after the Breeze stops completely.</b></p>



## 5.2 LCD DISPLAY USE



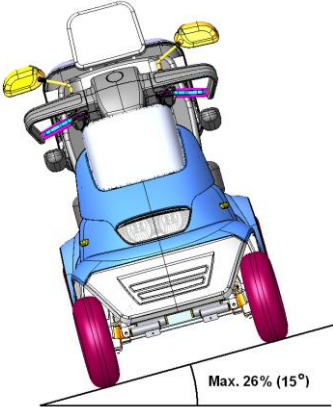
**Figure 7**

**(Numbers in the table refers to figure 6 & figure no. 7)**

LCD Display	When driving and operating the Breeze, all the needed information is displayed on the LCD screen (1.1). See details below.
Battery Status Indicator	The <b>Battery Capacity Indicator</b> (5.5) in the LCD screen, shows you the remaining capacity of the batteries. Like in cars the Batteries indicator is not absolute accurate, but will help you from running out of fuel. The best way to use the battery indicator is to learn it's behavior to the change of the battery capacity. When the indicator points 2-3 bars, recharge batteries as soon as possible. When the indicator left only last blink Bar , you should get to immediate charging, it is possible to drive only a short distance (3-4 km on level surface).The accuracy of the battery indicator reading depends also on the type and age of the batteries.
Fault Indicator	The <b>Breeze S</b> is equipped with Fault indication. The fault indication appears as a flashing code of the battery indicator and as well as an Error Code at the LCD screen (5.5 & 5.12). For further details see Breeze maintenance manual.
Light indicator	When the main lights are ON (front and rear) a sign will be lit (5.6).

Blinkers indicators	When the blinkers are ON, signs will be lit (5.3 and / or 5.4).																					
Half speed indicator	When the Half Speed switch (1.2) is at Half Speed position, a sign of "1/2" is lit (5.11).																					
Alarm indicator	When there is one of the follows conditions: Motor Overheated, Panic Brake was operated or Manual release brake is in OPEN position or electric EMB is opened, the Alarm indicator will be lit (5.13).																					
Speed Display	The LCD screen digital area will show the speed of the scooter. (5.12). The speed is shown in units of kph or mph. Set up of the speed units can be done by technician.																					
MODE and RESET button	<p>The MODE / RESET button (5.20) will change the digital reading from Speed to Travel Distance or Time. The distance is showed in units of Km OR Miles and the time is showed in Hours.</p> <p><b>(Note: Set up of the Distance units can be done by technician.)</b></p> <p>When you push the MODE bottom to the modes: "travel time" and "travel distance" and keep pushing it more than 7 seconds , the "travel time" and "travel distance" will reset to Zero.</p>																					
Set Up button	The Set Up button 5.21 is used to setup the Clock.																					
Clock Set Up	<p>When changing to clock mode with MODE bottom , keep pushing for 7 seconds and you will get into the Set Up mode of the clock.</p> <p><b><u>Clock Adjust:</u></b></p> <p>Use combine Left SETUP bottom and Right MODE bottom as follows: Every push on <b>Mode</b> change different time unit and this unit is Flashing. When Flashing , every push on <b>Setup</b> increase 1 unit.</p> <table><tr><th>Stage</th><th>Display</th><th>Flashing</th></tr><tr><td>1</td><td>HH:mm</td><td>mm</td></tr><tr><td>2</td><td>HH:mm</td><td>HH</td></tr><tr><td>3</td><td>DD.MM or MM.DD</td><td>DD</td></tr><tr><td>4</td><td>DD.MM or MM.DD</td><td>MM</td></tr><tr><td>5</td><td>20YY</td><td>YY</td></tr><tr><td>6</td><td></td><td>Save of Updated Time and Date</td></tr></table>	Stage	Display	Flashing	1	HH:mm	mm	2	HH:mm	HH	3	DD.MM or MM.DD	DD	4	DD.MM or MM.DD	MM	5	20YY	YY	6		Save of Updated Time and Date
Stage	Display	Flashing																				
1	HH:mm	mm																				
2	HH:mm	HH																				
3	DD.MM or MM.DD	DD																				
4	DD.MM or MM.DD	MM																				
5	20YY	YY																				
6		Save of Updated Time and Date																				

## 5.3 DRIVING AND GENERAL USE

Climbing an Obstacle	To climb an Obstacle drive the <b>Breeze S</b> forward, toward the Obstacle. Drive until that the front wheel is touching the obstacle and than squeeze the lever speed, keeping the direction.
Driving on slopes and Turns	<p>Before making sharp turns, and especially on slopes, reduce the <b>Breeze S</b> speed to minimum to prevent side roll-over.</p> <p>The <b>Breeze S</b> is able to go up slope higher than the recommended safe slope. Do not drive on slopes you are not sure about their angle. However drive very slowly and prevent side angles more than 26% (15°).</p> 
Pre-use	Now after learning through all the operating instructions, before starting to use the <b>Breeze S</b> , do a visual check through the all the parts of the vehicle, to make sure that no external damage has been occur to the vehicle while transportation. In any case you are not sure call your dealer and ask for an explanation.
Controller Programming	Several parameters of the <b>Breeze S</b> Controller can be programmed with a special Programmer. Programming should be done by trained authorized technician only. Wrong programming can cause abnormal operation of the <b>Breeze S</b> ,Harm persons and Injury.
Performance check	<p>It is very much recommended that when receiving as new or from another user or after a period of not using the <b>Breeze S</b> a performance check will be made as follows:</p> <ol style="list-style-type: none"> <li>1. Switch on the main switch.</li> <li>2. See that on the display panel – the battery indicator is lit and the Ready/ON led is lit as well.</li> <li>3. Squeeze the speed Wig Wag lever slowly and make sure that the <b>Breeze S</b> is traveling with correspondence to the squeezing on the lever.</li> <li>4. Release the Speed lever and make sure that the <b>Breeze</b></li> </ol>

	<p><b>S</b> is stopping softly and that you hear a click coming from the EMB engaging.</p> <p>5. Make a check of all the buttons functions on the handlebar.</p> <p>6. Switch off the main key switch. Your <b>Breeze S</b> is now ready to drive.</p>
Pre-use measures	The user should know his weight and all other loads are lower than the maximum of 160 Kg (352 lbs) / 200 Kg (440 lbs) depend on the model. If not sure it should be measured.
Safety Belt	Use a safety belt when ever it is needed or under local ordinance.
Attaching the <b>Breeze S</b> in motor vehicle for transportation	<p>To transport the <b>Breeze S</b> in a motor vehicle , the <b>Breeze</b> has to be secured while traveling .</p> <p>The Foot rest of the <b>Breeze S</b> should be tie down (6) to the motor vehicle floor with a suitable restrain belts and tight systems.</p> <p>The Rear part of the <b>Breeze S</b> should be tie down (7) as at the 2 Yellow Marks at the rear part of the <b>Breeze</b>-in the lower part of the power unit .</p> <p>The tie/restrain system should be with similar components and securing ,like the ones used in standard cars fasten belt.</p> <p><b>Warning : When transporting the Breeze S , never use it for any one to be seated on the scooter.</b></p> <div data-bbox="442 804 906 1220" data-label="Image"> </div> <p style="text-align: center;"><b>Figure 8</b></p>
Transportation	To reduce the height of the <b>Breeze S</b> while transporting it, The seat can be removed as explained in chapter 3: maintenance. And as well the Tiller can be folded to horizontal position.

## CHAPTER 6 – CHARGING

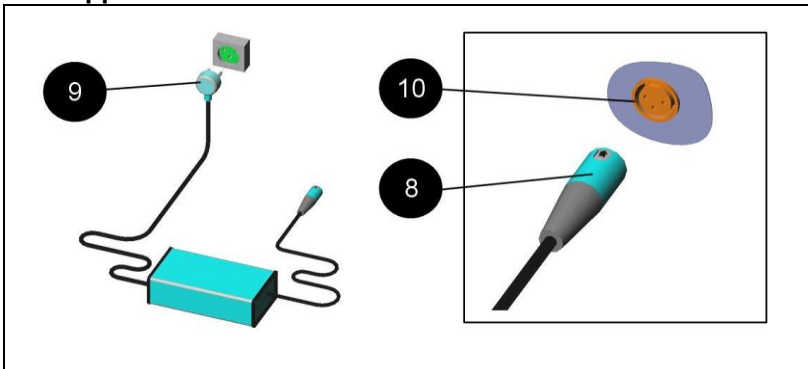
Read Charger's manual before using the charger.

**Warning: If you use a different charger, ask your dealer for instructions.**

### **CHARGING BATTERIES** (See figure10)

1. Insert first the Charging Plug (8) to the Charging Socket (9) located at the right side of the tiller box.
2. Plug the power cord (10) of the charger into a wall outlet (11).
3. When charging is completed and you are ready to go - unplug the charger cord (10) from the wall outlet (11) and then remove the charger plug (8) from the **Breeze S** charging socket (9).
4. In ideal storage conditions, batteries which were charged to full capacity and are not used should be recharged every 6 months.
5. If you are planning not to use your **Breeze S** for an extended period of time, we recommend charging it for two days and then disconnecting the batteries.
6. If you have not used your **Breeze S** for an extended period of time, charge the batteries for at least 24 hours before driving.

- **Note: There is NO need to disconnect the Charging Plug promptly after the charging is complete.**
- **However, DO NOT leave the Charger connected to the batteries FOR MORE THAN TWO WEEKS.**
- **As long as the Charging Plug is in the Charger Socket, the electronic control of the *Breeze* automatically cuts all power to the electric system and the *Breeze* S cannot be driven.**
- **The charger supplied is suitable for charging Lead Acid Dry/Gel batteries .Only the defined type of charger should be used. Using any other type of charger should be approved by your Dealer / Supplier.**



**Figure 10**

## CHAPTER 7 – MAINTENANCE

### Note:

1. Maintenance Manual is available for trained technicians.
2. The numbers in parentheses refer to the parts illustrated in figure 11.

Although the **Breeze S** requires minimal maintenance, do not neglect it. When servicing the **Breeze S**, make sure that it stands on a level surface and that the key is not inserted.

- ✓ **Remark:** For the periodic maintenance no special tooling is needed.  
**(Numbers in the table refers to figure 9)**

Periodic Maintenance Check	No.	Type of Service	Frequency
	1	Check air pressure in all tires.	Every week
	2	Check emergency brakes	Every week
	3	Check normal drive and stop	Every Month
	4	Check tires wear	Every Month
	5	Check for missing parts and damaged parts .Use the figures #1,2,3,4 .	When receiving the <b>Breeze S</b> or after a long time not using it.
	6	Check secure of all screws and parts	Once a year by technician.
	7	Batteries replacing.	Every 2-3 years , after about 300-400 full cycles of charge/discharge. When short travel distance and/or technician check.
	<b>Note: To Replace the batteries, the Seat and Battery Cover located under the Seat must be removed.</b>		
	8	Cleaning	External – when needed. Internal – Once a year by technician.

Removing the Seat and the Batteries Cover(2)	<p>Turn the Seat by using the lifting Lever (7.5) so that the Lever will point 45° Right or Left. The Seat can be removed only at this position.</p> <p>Remove the Seat (7): Hold the Seat in your two hands – one hand on the backrest and a second hand at the front lower part of the seat and lift the seat up from its pivot.</p> <p><b>Warning! The seat weight is ~15 Kg (33lbs).</b></p> <p>Keep lifting with your Knees/legs and not loading your Back. Release Battery Cover (2) securing screws (2.6). Lift the Battery Cover (2) until it is released from the Seat Pivot .</p>
Replacing the Batteries Cover(2)	The replacement of the Batteries Cover is done in reverse order; MAKE SURE that the Gray Cover (2) fits onto it's place. Secure with the 4 screws (2.6).
Batteries	Batteries weight each ~23 Kg (~50 lbs) and over. Lift each battery only with the appropriate handle. Keep lifting with your Knees/legs and not loading your Back.
Tires	<p>Correct air pressure in the tires is essential for optimal steering and stability of the <b>Breeze S</b>. Check air pressure every two weeks.</p> <p>Inflate to the proper air pressure: 25 ±2 psi. Breeze 4W front tires: 20±2 psi. Golf wheels tires : 20±2 psi.</p>
Cleaning	Use only a damp cloth and mild detergent. Never use a hose for cleaning. This may severely damage the power and electronic components.

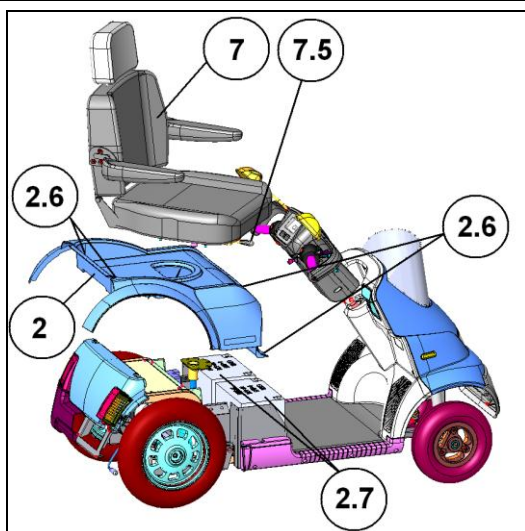
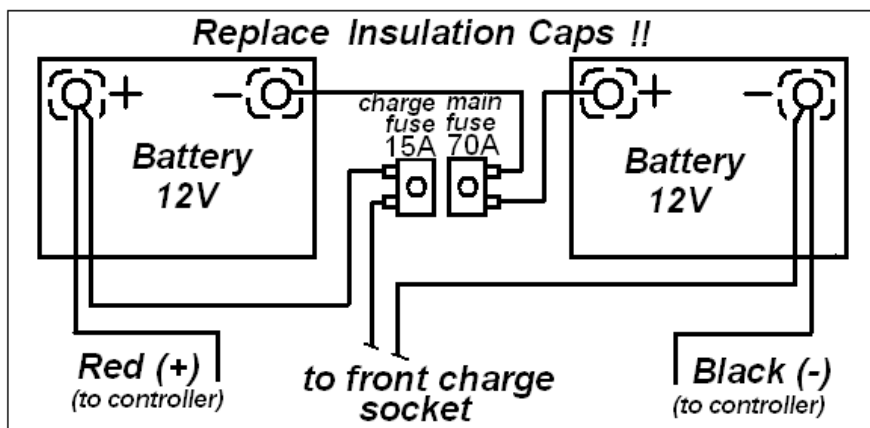


Figure 11

Replace Batteries	<p>Remove batteries terminal insulating cap. Each time remove only one cap. Unsecure the screw of the wiring terminal from battery terminal using 10/13 mm key. Make sure your 10/13 mm key is not touching any other terminal or metal part. This can cause damage and Injure.</p> <p>After un securing all wires terminals, remove the batteries and install the new ones. <b>Connect</b> the wires as shown in below <b>Figure 12</b>. The connection Label is also located near the batteries.</p> <p><b>Secure</b> all wires to the frame with Ties as shown in <b>Figure 12</b>. Secure all terminals with screws and make sure insulating caps are correctly placed on terminals.</p> <p><b>Warning!</b> Batteries contain high energy. Misconnection, short circuits can burst with strong sparks causing heat and possible fire.</p> <p><b>Warning!</b> Working with batteries can cause damage and Injure if not done properly.</p> <p><b>Note!</b> Replacing batteries should be done only by trained and or professional person.</p>
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### **Battery wiring Label :**



**Figure 12**



# CHAPTER 8 – TROUBLESHOOTING AND FAULT REPAIR

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The following table provides troubleshooting and repair instructions for symptoms encountered when operating the **Breeze S**. It presents the best ways to handle the faults. The table contains three columns:

**The Symptom** - describes the functional problem that results from the fault.

**Probable Cause** - lists all probable causes for the relevant symptom. The probable causes are listed logically by order of probability: the first one is the most probable.

**Remedy** - lists the action to be taken to solve the problem. The appropriate remedy appears opposite each probable cause. These remedies should solve the problem; if not, continue down the list to the next cause/remedy.

**Remember:** you may contact your dealer at any time for further professional support.



## TROUBLESHOOTING AND FAULT REPAIR (Cont.)

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No.	Symptom	Probable Causes	Remedy
1	Flat tire and unstable driving.	✓ Low air pressure. ✓ Puncture.	✓ Pump to normal pressure. ✓ Repair the tire.
2	The Display Flashes and the vehicle does not move.	✓ Controller Coded Fault.	✓ Ask for technical Assistance.
4	Manual Mechanical Brake Lever is fully pressed but the vehicle does not stop.	✓ Loose hand brake mechanism.	✓ Brake cable needs to be tight. Only by authorized technician.
5	When releasing the speed lever on level surface , the <b>Breeze S</b> does not stop at regular distance or more than 3 meters	✓ Not adjusted or faulty controller.	✓ Ask for technical Assistance.
6	The Key Switch is turned to “ON” (clockwise), but the “ON” light does not come on.	✓ Main fuse 70A popped out or electrical fault. (See 2.1a in Figure1)	✓ Reset fuse <b>Note:</b> Do not reset fuse more than twice. If the symptom recurs after resetting the second time, call the authorized dealer for support.



## TROUBLESHOOTING AND FAULT REPAIR (Cont.)

No.	Symptom	Probable Causes	Remedy
7	<b>Breeze S</b> does not move when squeezing the Operating Lever .	<ul style="list-style-type: none"> <li>✓ Main Key Switch is in OFF position.</li> <li>✓ Charging Plug is installed in Charging Socket.</li> <li>✓ The Mechanical Release Lever of the electromagnetic Brake is operated .</li> <li>✓ Other inhibit : Panic brake.</li> <li>✓ Control system failure.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Turn the key to “ON” position.</li> <li>✓ Disconnect the Charging Plug from the <b>Breeze S</b>.</li> <li>✓ Remove lever to engaged position .</li> <li>✓ Reset by switch OFF and ON again.</li> <li>✓ Call for technical support.</li> </ul>
8	Intermittent drive.	<ul style="list-style-type: none"> <li>✓ Battery capacity low.</li> <li>✓ Failed connections</li> <li>✓ Faulty battery.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Charge batteries for at least 18 hours.</li> <li>✓ Remove Batteries Cover and check the battery cables connection. In case of corrosion of the terminals, clean the terminals with a damp clean cloth.</li> <li>✓ If, after recharge, the red leds are still ON, the battery may be faulty. For replacement, contact your dealer.</li> </ul>
9	Main or rear lights or Blinkers light are inoperative.	<ul style="list-style-type: none"> <li>✓ Faulty LED light board or Electronics fault.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Call technician for assistance.</li> </ul>
10	When driving uphill or carrying heavy loads the <b>Breeze S</b> speed is decreased gradually but still moving.	<ul style="list-style-type: none"> <li>✓ The <b>Breeze S</b> controller exceeded too high temperature.</li> </ul>	<ul style="list-style-type: none"> <li>✓ It is recommended to stop the <b>Breeze S</b> and let the controller cool for awhile.</li> </ul>

## CHAPTER 9 – EMI WARNING

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All types of electrically powered vehicles, such as powered wheelchairs and motorized scooters (in this text all types will be referred to as “powered vehicles”) may be susceptible to electromagnetic interference (EMI). This is from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios and cellular phones. The interference (from radio wave sources) can cause the powered vehicle to release its brakes, move by itself, or move in unintended direction. It can also damage the powered vehicle’s control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each powered vehicle can resist EMI interfering electromagnetic energy (EM) emitted up to a certain intensity. This is called its “immunity level”. The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving immunity level, which would provide useful protection from the more common sources of radiated EMI. This vehicle as shipped, with no further modification, has an immunity level of 20 V/m. There are a number of sources of relatively intense electromagnetic fields in everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warning listed below, your risk of EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types:

1. Hand-held portable transceivers (transmitters-receivers) with the antenna mounted directly on the transmitting unit. Examples include: citizen band (CB) radios, “walkie talkies”, security, fire and police transceivers, cellular telephones and other personal communication devices. \*\* NOTE: some cellular telephones and similar devices transmit signals while they are ON, even when not being used.
2. Medium-range mobile transceivers Such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the vehicle .
3. Long-range transmitters and transceivers such as commercial broadcast transmitters (Radio and TV broadcast antenna towers) and amateur (HAM) radios.

**NOTE:** Other types of hand held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, cassette players and small appliances such as electric shavers and hair dryers, as far as we know, are not likely to cause EMI problems to your powered vehicle.

## **Powered Vehicle Electromagnetic Interference (EMI)**



Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna, the EM field from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy close to the powered vehicle's control system while using these devices. This can affect powered vehicle movement and braking.

Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered vehicle.

### **WARNINGS**

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios and cellular phones can affect powered vehicles.

Following the warnings listed below should reduce the chance of unintended brake release or powered vehicle **movement which could result in serious injury**:

- 1) Do not operate hand-held transceivers (transmitters-receivers) such as citizen band (CB) radios, or turn ON personal communication devices such as cellular phones, while the powered vehicle is ON;
- 2) Be aware of nearby transmitters, such as radio or TV stations and try to avoid coming close to them.
- 3) On appearance of unintended movements or brake release occurrences, switch the powered vehicle OFF **as soon as it is safe**.
- 4) Be aware that adding accessories or components, or modifying the powered vehicle, may make it more susceptible to EMI (Note: there is no easy way to evaluate their effect on the overall immunity level of the powered vehicle).
- 5) Please report to us all incidents of unintended movement or brake release and note whether there is a source of EMI nearby.

### **Important information**

- 1) 20 volts per meter (V/m) is a generally achievable and useful immunity level against EMI (as of May 1994). The higher the level the greater the protection;
- 2) This product delivered to you, has an immunity level of 20 V/m.

## APPENDIX A – SPECIFICATIONS SHEET

Type: BREEZE S4      Manufacturer: Kibbutz Afikim 14148, Israel  
Maximum occupant mass: 200 kg (For the tests a 150kg dummy according ISO 7176-11 was used, added by 50 kg masses distributed approximately proportional to the dummy weight distribution)

### Disclosure information (ISO 7176-15)

	4W		3W			4W		3W	
Standard reference	min.	max.			Standard reference	min.	max.		
Overall length with legrest (A)	1550 mm	mm			Seat plane angle	4 °			
Overall width (B)	680 mm	mm			Effective seat depth (M)	?? mm			
Folded length(D)	mm	mm			Effective seat width (N)	460 mm			
Folded height(C)	mm	mm			Seat surface height at front edge (O)	430 mm	490 mm		
Total mass (G)	155 kg	kg			Backrest angle (P)	90 °			
Mass of the heaviest part (H)	kg	23 kg Battery			Backrest height (Q)	390 mm			
Static stability downhill (T)	>20°	>20°			Footrest to seat distance (I)	mm			
Static stability uphill (V)	13°	>20°			Leg to seat surface angle	°			
Static stability sideways (X)	10°	14°			Armrest to seat distance (K)	mm			
Energy consumption	km	25km			Front location of armrest structure	mm			
Dynamic stability uphill	>10°	>10°			Handrim diameter (S)	25 mm			
Obstacle climbing	80 mm	120 mm			Horizontal location of axle (R)	mm			
Maximum speed forward	km/h	15.0 km/h			Minimum turning radius (Y)	2200 mm			
Minimum braking distance from max speed	3000 m m (horizontal)	mm			Minimum turn-around radius (Z)	mm			
Tires Pneumatic	Front Tires Rear Tires	4.10/3.50-6" 3.50-10"			Charger for charging Dry/Gel Acid Battery	24VDC max charge	15 Amp.		
Pressure of front tires:		1.7 bars							
Pressure of rear tires:		1.7 bars							
Batteries type	Lead Acid Gel/dry, 2x12 V 70 Ah, Max. Charge current 12Amp.max. Dims. 265mm x 175mm x 230mm								
Capacity									
Charger									
Dimensions									
Options	<ul style="list-style-type: none"> <li>✓ Left speed lever.</li> <li>✓ Pedal operation</li> <li>✓ Twist speed lever</li> <li>✓ Canopy</li> <li>✓ Winter light sides close</li> <li>✓ Rear attach bracket.</li> <li>✓ Wide seat 22"</li> <li>✓ <b>Seat lift column-electric</b></li> </ul>								

### Remarks :

- \* All technical specifications are subject to change without prior notice.
- \*\* The maximum speed at every country is limited according local restrictions.



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Israel

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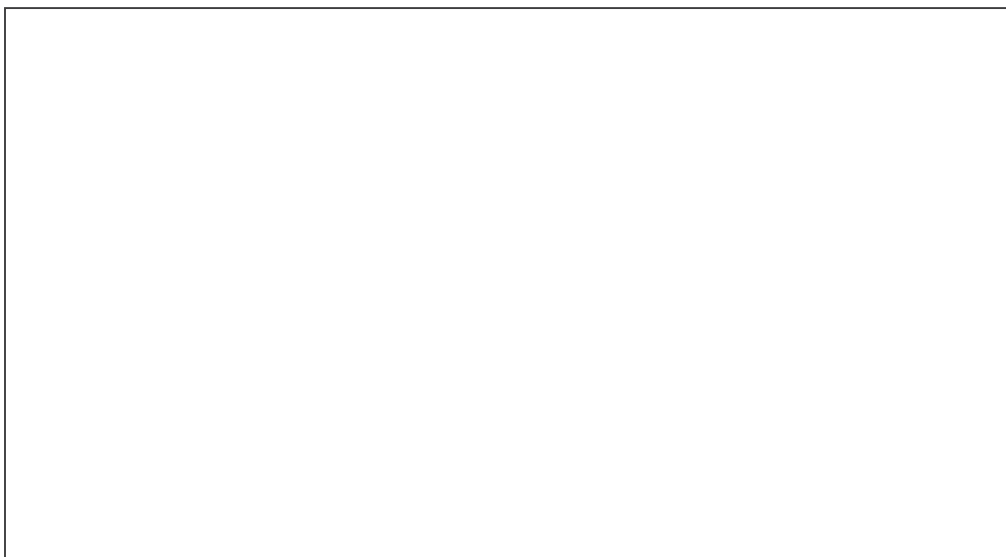
Fax: 972-4 6751456

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P/N PRS4001

Distributed by:



Date: April 2010  
Edition: 01  
Revision 01  
Products: ***Breeze S , 4 Wheels and 3 Wheels***  
P/N of the user manual: PRS4001

File : I:\RD\Breeze S\User Manual\Breeze S-User-Manual-English -rev0.doc