

EasyTravel

*Elite **DRAFT***



User's Manual

(28-73-901)
Original instructions



CE

Dear User,

Tzora Active Systems Ltd. thanks you for choosing the ***EasyTravel Lite*** scooter and wishes you safe and enjoyable journeys.

For proper operation and to maintain the scooter's operational readiness, we recommend that you read this user manual and all warning labels prior to using the scooter.



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NOTE: Design details may change without notice.

1. INTRODUCTION

The **EasyTravel Elite** is a “Class A” Electrically powered scooter. It is intended to be used by individuals that are able to walk, but suffer from mild mobility limitations. The user must have sufficient arm and leg strength to get on and off the **EasyTravel Elite** alone and to safely steer under all driving conditions.

The **EasyTravel Elite** is intended for indoor and restricted outdoor use on pavements or paved footpaths only during daylight hours. The **EasyTravel Elite** does not have lights and reflectors and therefore must not be used in the dark or in limited visibility conditions.

CAUTION: Failure to follow the instructions contained in this manual may result in injury to the user or to other persons.

2. TECHNICAL DATA

Item	Lead/Acid Battery	Lithium Battery
Category	Class A	
Maximum speed	6.0 km/h (3.7 mph)	
Power supply	24V from 2 charged sealed lead acid, maintenance-free (12V-12Ah) batteries.	24V from 1 charged sealed LiFePO4 maintenance-free (24V-14Ah) battery.
Charge time	7-10 hours	
Estimated range*	Using recommended battery and depending on operating conditions and load: Up to 13 km. (8 miles) Up to 15 km. (9.3 miles)	
Climbing slope	6° (10%)	
Reversing width	1200 mm.	
Ascending and descending curb (step)	15 mm. (5/8 in.) maximum (see note on page 14)	
Ground clearance	4 cm. (1.6 in.)	
Maximum load	115 kg. (250 lb.)	
Resistance to ignition of materials & assemblies	UL94 V-0	
Scooter weight (excluding batteries)	25.5 kg. (56 lb.)	
Seat Weight	6 kg (13 lbs)	
Battery pack weight	9 kg. (20 lb)	4.2 kg. (9 lb)
Front Wheels	200x50 mm (8x2 in.)	
Rear Wheels	200x50 mm (8x2 in.)	
Tyres	Flat-free PU	
Dimensions (Length, Width, Height)	101x57x86 cm. (40"x22"x34")	

*The actual range depends on the operation conditions and the load

Disclosure Information per ISO 7176-15:1996		
Item	Min	Max
Overall length with leg rest		1010 mm
Overall width		570 mm
Folded length		1010 mm
Folded width		570 mm
Folded height		520 mm
Total mass		34.5 kg 29.7 kg
Mass of the heaviest part		14.5 kg
Static stability downhill		6°
Static stability uphill		6°
Static stability sideways		6°
Energy consumption		15 km
Dynamic stability uphill		3°
Obstacle climbing		15 mm
Maximum speed forward		6 km/h
Minimum braking distance from max speed		92 mm
Seat plane angle	3°	5°
Effective seat depth	420 mm	440 mm
Effective seat width		440 mm
Seat surface height at front edge	500 mm	510 mm
Backrest angle	10°	12°
Backrest height	360 mm	370 mm
Footrest to seat distance	380 mm	390 mm
Leg to seat surface angle	10°	12°
Armrest to seat distance	170 mm	180 mm
Minimum turning radius	900 mm	

MOTOR	
Rated Voltage	24 V
Power	180 W

LEAD ACID BATTERY	
Manufacturer	Kung Long Batteries Industrial Co., Ltd. No. 6, Tzu-Li 3 Road, Nantou City, Taiwan
Model	WP12-12
Type	Rechargeable Sealed Lead Acid Battery
Nominal Capacity	20hour rate (0.6A to 10.50V) 12A/h
Charge Retention (shelf life) at 20°C (68°F)	1 month 92% 3 month 90% 6 month 80%
Life expectancy:	Cycle Use: 100% depth of discharge 200 cycles 80% depth of discharge 225 cycles 50% depth of discharge 500 cycles Standby Use: 3~5years
No. of batteries	2
Nominal Voltage	12 V
Power	12A/h
Weight	Approx. 4.075kg (8.96 lbs.)

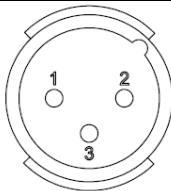
LEAD ACID BATTERY CHARGER	
Type	Off-board
Input	100-240VAC 50/60Hz 1.2-0.5A
Output	24VDC 2A
Charging temperature range	0°C to +40°C

See Chapter 7 for more information on the batteries and chargers.

LITHIUM ION BATTERY	
Manufacturer	Tianjin Enerbyte Electronics Co. Ltd. 21st , Hua Ming Road, Hua Ming Town, Dong Li District, Tianjin, P.R., China
Model	LiFePO4
Type	Rechargeable Lithium Battery
Nominal Capacity	20hour rate (0.6A to 10.50V) 12A/h
Charge Retention (shelf life) at 20°C (68°F)	1 month 97% 3 month 91% 6 month 83%
Life expectancy:	Cycle Use: 80% depth of discharge >2000 cycles
No. of batteries	1
Nominal Voltage	24 V
Power	12A/h
Weight	Approx. 3.8 kg (8.4 lbs.)

LITHIUM ION BATTERY CHARGER	
Type	Off-board
Input	100-240VAC 50/60Hz 1.2-0.5A
Output	24VDC 2A
Charging temperature range	0°C to +40°C

See Chapter 7 for more information on the batteries and chargers.

BATTERY CHARGER CONNECTOR PINS	
	<ul style="list-style-type: none"> (1) RED (2) BLACK (3) BLUE <ul style="list-style-type: none"> (1) + Positive (2) - Negative (3) Inhibit

The batteries and charger comply with the safety requirements of ISO 7176-25:2013.

The **EasyTravel** and its accessories have been designed, manufactured and tested in accordance with the specification of the following:

DIRECTIVE: Medical devices 93/42 EEC



3. SAFETY

During your initial use of the **EasyTravel Elite** we recommend caution as you practice operating the unit in various situations. Keep the speed at a reduced level until you are comfortable controlling the scooter. Follow the safety tips and instructions and you will be comfortable maneuvering through doorways, on and off lifts, over moderate terrain and up and down ramps.

These safety considerations and tips will help you to operate the **EasyTravel Elite** safely. The **EasyTravel Elite** is a powerful electric vehicle; these rules will help you prevent personal injury and damage to your scooter.

1. Read this manual and all labels before operating.
2. Do not carry passengers or exceed the maximum weight capacity.
3. Do not mount or dismount the **EasyTravel Elite** unless it has come to a full stop and is turned off.
4. Do not back up on to uneven inclines or surfaces.
5. Always switch the speed selector to low when driving in a confined space.
6. Always reduce speed when turning.
7. Do not operate your scooter when under the influence of alcohol, medications or drugs that may impair your safety.
8. Always keep your feet on the foot platform when driving.
9. Do not sit on the scooter while being transported in a moving vehicle.

Always fold down and secure your **EasyTravel Elite** and transfer yourself to a vehicle seat.

4. SYSTEM COMPONENTS AND DETAILS

4.1. *EasyTravel Elite* parts – (Figure 1)

1. Battery pack (detachable)	11. Rear wheel
2. Front column (detachable)	12. Folded frame lock/release pin
3. Column lock/release triggers	13. Unfolded frame lock/release pin
4. Controller cover	14. Utility basket (holding capacity 20lbs/9kg)
5. Charging socket (Fig. 1A)	15. Charger and connecting cables (Fig. 1B)
6. Front drive wheel	16. Control Panel
7. Foot platform	17. Freewheel switch
8. Seat shell	
9. Seat cushions	
10. Foldable armrests	

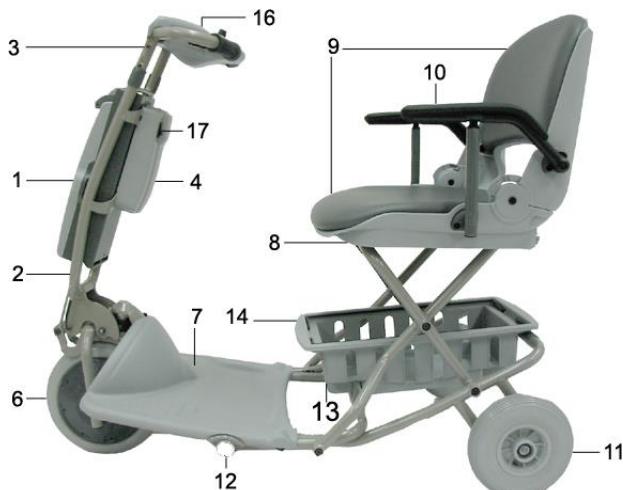
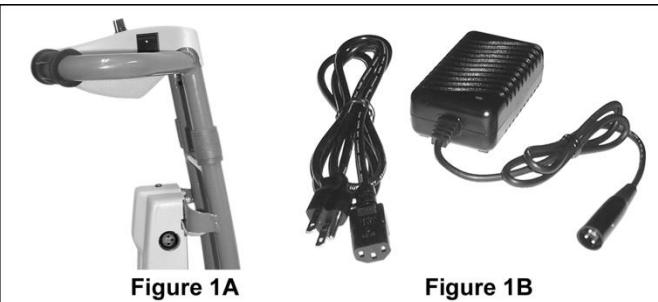


Figure 1



4.2. Control Panel – (Figure 2)

1. Switch
2. Hand control lever (right and left)
3. Speed adjusting knob
4. Indicator light (LED)
5. Battery Gauge
6. Hand-grips



4.3. *EasyTravel* Optional Accessories:

1. Extra battery pack.
2. Optional Battery Charger (Fig.3) where Lithium Batteries are used.

WARNING: Where both lead/acid **and** Lithium batteries are being used, the user must take extra care to use the **correct** charger for the specific battery being charged.



Figure 3

BELL: If the user requires an audible warning device, a standard bicycle bell can be attached to the handlebar.

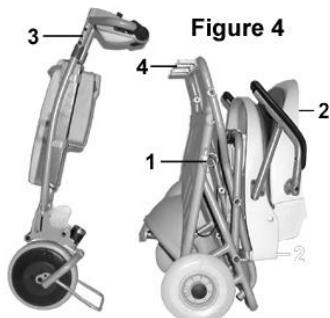
SECTION B – USER INFORMATION

5. ASSEMBLY AND FOLDING INSTRUCTIONS

5.1. Assembling your *EasyTravel Elite*.

Unfolding Rear Frame

Pull on the folded frame lock pin ring (Fig. 4/1) to release the foot platform and unfold the frame. Pull the seat backrest (Fig. 4/2) and lift it to the upright position. Ensure that the unfolded frame lock pin secures the platform in the horizontal position.



Unfolding Front Column

Pull the column lock triggers (Fig. 4/3) upward towards the handle to release the tilt lock. Move the drive unit away from the column (all the way) to open the quick-release housing.

This is the column “detach” position.

Connecting The Front Column To The Rear Frame

Position the column in the “detach” position. Lift the front of the Foot platform and insert connection pin into the quick-release housing on the drive unit. This may be done without bending down by lifting the front of the seat “lip” while holding the front column hand-grip as shown in Fig. 5.



Figure 5

Front Column Adjustment (Figure 6)

To adjust the angle of the front column, pull the column lock triggers upward. Move the column into the desired position and release. Push lightly back and forth on the column to ensure that it is locked in the desired position.

1. For driving the **EasyTravel Elite**, adjust column to one of the two the rear-most positions.
2. For getting in and out of the **EasyTravel Elite** seat comfortably, the column may be moved away from the seat to the entry/exit position.
3. For detaching the front column from the rear frame, adjust the column fully forward to the detach position (Fig. 6/3); remove battery before adjusting the column to the detach position.

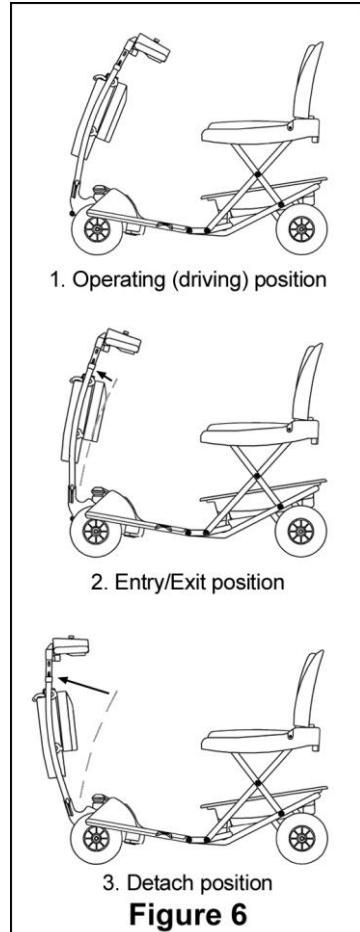


Figure 6

CAUTION: When getting in and out of the **EasyTravel Elite** seat, step only on **CENTER** of foot platform. **DO NOT STEP ON SIDE OF FOOT PLATFORM** to avoid tipping the **EasyTravel Elite**.

NOTE: The rear frame, when folded, can be lifted by the handles (Fig 4/4).

5.2. Folding and Unfolding your *EasyTravel Elite*

Folding the EasyTravel Elite

Step 1: Fold backrest of seat down (Fig. 7/1)

Step 2: Hold handgrip of front column (Fig. 7/2) in the “Operating” or “Entry/Exit” position and push forward away from seat to fold platform upwards.

Step 3: Grasp platform handle (Fig. 7/3) and pull column lock triggers (Fig. 7/4) to fold column towards the platform. Fold together until folded frame lock pin (Fig. 7/5) and column latch (Fig. 7/6) click into

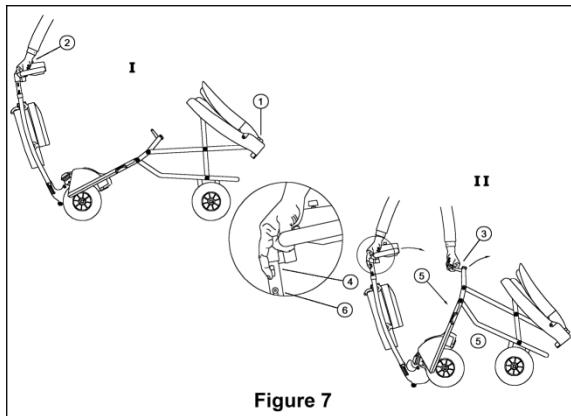


Figure 7

place and hold ***EasyTravel Elite*** in folded position.

Unfolding the EasyTravel Elite

Step 1: Pull on the frame lock pin ring (Fig. 8/1) to release platform and rest front wheels on floor.

Step 2: Pull the seat backrest and lift it upright. (Fig. 8/2)

Step 3: Grasp top of seat backrest (Fig. 8/3) and pull column lock triggers (Fig. 8/4) to release column from platform. Pull outwards to unfold

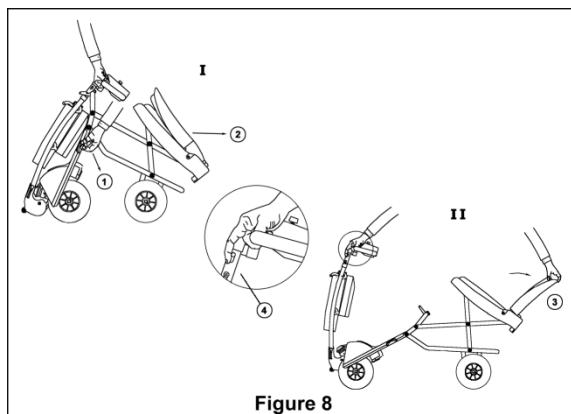


Figure 8

EasyTravel Elite until platform and column lock into the operating position.

6. OPERATING THE SCOOTER

6.1. Control Panel operation features

The switch located on the right side of the control panel (Fig. 9/1), will turn the power of the **EasyTravel Elite** ON or OFF.

NOTE: Turn your **EasyTravel Elite** switch to the OFF position when not in use in order to conserve battery power, and prevent unintentional operation.

The top speed may be adjusted by turning the Speed-adjusting knob (fig 9/3). By turning the knob to the HI position, your **EasyTravel Elite**'s top speed will be up to 3.7mph/6kph. When the knob is set to the Lo position, the speed will be reduced to a slow crawl, ideal for less experienced drivers and for operating indoors.



Figure 9

6.2. Indicator light (Fig. 9/4)

The light, located at the bottom of the handle control cover, displays battery status and fault indications as follows:

- **Indicator light steady** - This indicates that all is well.
- **Indicator light flashes slowly** - The controller is functioning correctly but batteries should be charged as soon as possible. The Battery Gauge (Fig. 9/5) shows the charge that is left.

- **Indicator light flashes rapidly** - This indicates that there is a fault.

Please follow the following procedure:

1. Switch off the **EasyTravel Elite**
2. Make sure that the **EasyTravel Elite** is not in the FREEWHEEL position.
3. Make sure that the charger is not connected to the **EasyTravel Elite**.
4. Make sure that the control lever is in the middle position.

CAUTION: If control lever does not return by itself to the middle position – do not operate. Contact your service agent.

5. Switch the **EasyTravel Elite** on again and try to drive. If the indicator light flashes rapidly again, switch off and do not operate. Contact your service agent!

6.3. Battery Gauge (Fig. 9/5)

The Battery Gauge (Fig. 9/5) shows the battery charge that is left.

6.4. Driving your **EasyTravel Elite**

To drive forward, pull the right side of the hand control lever towards you (Fig. 10/1). You can also move forward by pushing the left side of the control lever away from you. By releasing the control lever, you will gradually come to a stop, and the **EasyTravel Elite** brake will be applied automatically. To operate in reverse, pull the left side of the hand control lever towards you (Fig. 10/2).

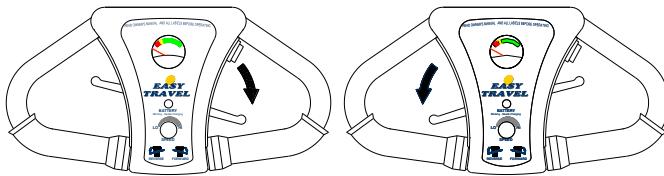


Figure 10

6.5. Safety considerations when driving your *EasyTravel Elite*

- ❑ Footpaths and sidewalks appear to be level but are usually slightly sloped for drainage of rainwater. Counter-steering may be necessary for overcoming excessive slopes. In such cases the speed should be reduced as necessary.
- ❑ When approaching ditches, bumps or similar obstacles – reduce speed as necessary.
- ❑ Do not operate ***EasyTravel Elite*** in places or on surfaces where a loss of wheel grip could be hazardous, for example on wet grassy slopes.

6.6. Armrests

To enable easier entry to and exit from your ***EasyTravel Elite*** the armrest can be lifted, see Fig. 10A.



Figure 10 A

7. BATTERIES AND CHARGING

Battery information

The **EasyTravel Elite** is designed to use sealed lead acid, maintenance-free, 12V batteries.

Always turn your **EasyTravel Elite** OFF before removing and installing batteries. To get the maximum out of your batteries, it is recommended to fully charge the batteries overnight after every day of use. **Reconnecting the charger when the batteries are partially discharged or fully charged will not harm them.** Extended charging is good for the batteries and you cannot overcharge them.

Battery range depends on operator weight, terrain and the condition of batteries used. Charge your batteries daily and/or overnight when the **EasyTravel Elite** is not in use.

Battery Recharging Instructions

To recharge, turn off **EasyTravel Elite** It is possible to either charge the battery while connected on the **EasyTravel Elite** (see instruction 1 below) or directly (instruction 2).

1. Plug the charging connector into the **EasyTravel Elite** charging socket and then connect the charger to an electrical outlet socket.
2. Plug the charging connector in the back of the battery pack and then connect the charger to an electrical outlet socket.

The indicator light is red when the power is on and the charger is not connected to the battery. During charging, the indicator light on the charger will be orange. When the battery is approaching full charge the indicator light will turn green. In order to achieve the maximum battery capacity and efficiency, it is advised to charge them overnight, and at least four hours after the indicator light has turned to green.

When charging the battery pack using voltage converter, plug the voltage converter into the light socket in your car and connect the battery charger to the converter.

Safety Instructions

CAUTION: Failure to follow these instructions may result in personal injury or property damage.

1. Never smoke or allow an open flame in the vicinity of the batteries.
2. Use the charger for charging lead acid batteries only. It is not intended to supply power to an extra-low-voltage electrical system or to charge dry cell batteries.
3. Never charge a frozen battery.
4. Do not operate the charger in a closed-in area or restrict ventilation.
5. Prevent external damage to AC and DC cords. Do not use charger if cords are damaged.
6. Connect DC charging cord to the Charging Socket before connecting charger AC supply cord to the electrical outlet, and disconnect the AC cord from the electrical outlet before disconnecting charge cord.
7. Be extra cautious not to drop a metal object onto the battery case.
8. Remove jewelry.

Battery Storage

Before storage, battery packs should be fully charged, and should be recharged at least once every three months.

Store batteries indoors in a dry environment.

Storage temperature range: -20°C (-4°F) to 40°C (104°F)

Charging temperature range: 0°C (32°F) to 40°C (104°F)

Operating temperature range: -20°C (-4°F) to 50°C (122°F)

WARNING: Store batteries in the 'correct' position. (See Fig. 11).

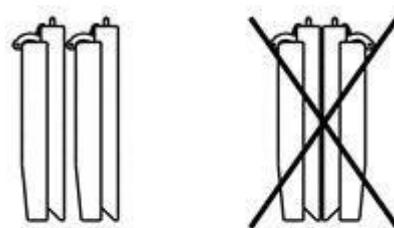


Figure 11

Battery Replacement and Disposal

The **EasyTravel Elite** battery pack contains two 12V/ 12Ah maintenance-free sealed lead acid rechargeable batteries. Replacement of the batteries is only permitted to an authorized dealer.

Battery cells may emit minor acid fumes.

Batteries must be recycled. Disposals of potentially damaged batteries present hazards of injury from acid leakage and environmental pollution.

NOTE: When removing a battery, always set it on cardboard, newspaper, or surfaces that cannot be damaged by acid fumes or liquid from the battery.

8. STORAGE AND TRANSPORTATION

8.1. Moving Your *EasyTravel Elite* in Freewheel Mode when unfolded:

The Freewheel switch (Fig. 1/17) is used for releasing the brake and moving the *EasyTravel Elite* without operating the motor. Before activating, make sure your *EasyTravel Elite* is switched on. Turn Freewheel switch to the "freewheel" position and push or pull the *EasyTravel Elite* manually.

NOTE: The Freewheel mode can only be activated **after** the battery is in place and the power switch (Fig.9/1) is turned on. Doing otherwise will cause a fault situation indicated by rapid flashing of the Indicator light (Fig. 9/4). See section 4.2.

WARNING: The Freewheel switch should never be engaged on a slope.

CAUTION: The seat back must remain in the upright position.

8.2. “Walking” your *EasyTravel Elite* in the folded position

The folded *EasyTravel Elite* may be pulled along suitcase style. The battery should be carried separately (Fig. 12) or in the utility basket. See folding instructions on page 16.

8.3. Transporting your *EasyTravel Elite* quickly and easily

Your *EasyTravel Elite* can be disassembled and transported in most car trunks.

When disassembling for transportation or storage:

1. Disconnect battery pack and place in Utility basket (Fig. 13/1)
2. Disconnect front column (Fig. 13/2) and fold rear frame separately (Fig. 13/3)
3. For storage – set down front column in a stable position.
4. For transportation, place *EasyTravel Elite* components in car trunk as shown in figure 14.

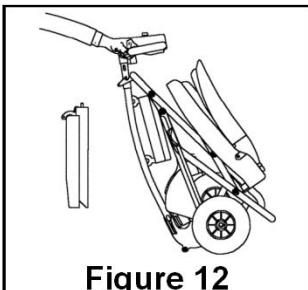


Figure 12

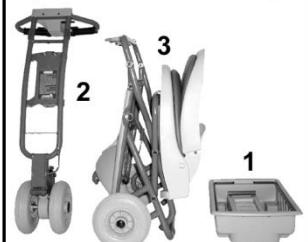


Figure 13



Figure 14

9. HELPFUL HINTS FOR EVERYDAY USE

Before using your ***EasyTravel Elite*** take the following precautions:

- Ensure that the front column and rear frame are locked together.
- Ensure that the rear frame is locked open.

Speed Controls

Always operate your ***EasyTravel Elite*** at a reasonable speed for both your personal safety and others.

CAUTION: Reduce speed when turning.

Stopping

Dynamic braking will gradually bring your ***EasyTravel Elite*** to a stop when hand control lever is released.

Ramps and Inclines

Lean forward and carefully manoeuvre your ***EasyTravel Elite*** up a ramp or incline. Be aware that not all ramps are constructed according to Government standards. The Government standard for wheelchair ramps is 2.5 cm (1 inch) rise per 30 cm (1 foot).

Lower the speed setting to a slow speed when descending inclines.

Using an elevator

Backing into an elevator allows you to exit forward. Be sure that the elevator is level with the floor.

Opening Doors

When a door opens towards you, approach at an angle and just off to one side. Adjust the speed knob to a low setting. Grasp the doorknob, reverse and pull the door open. For doors that open away from you, position the front roller against the door, close to the doorjamb on the doorknob side of the door. After you release the latch, use the roller to push the door open.

WARNING: Be careful with glass doors to avoid personal injury!

10. EMI – ELECTROMAGNETIC INTERFERENCE

WARNING: It is important that you read this information regarding the possible effects of electromagnetic interference on your **EasyTravel Lite**.

- The **EasyTravel Lite** scooter might disturb the operation of devices in its environment that emit electromagnetic fields (e.g. alarm systems, automatic doors, etc.).
- The driving performance of the **EasyTravel Lite** scooter can be influenced by electromagnetic fields (e.g. those emitted by portable telephones, electricity generators or high power sources).

Electromagnetic Interference (EMI) From Radio Wave Sources

Motorized scooters may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones. The interference (from radio wave sources) can cause scooters to release their brakes, come to a sudden stop, or move in an uncontrolled manner. It can also permanently damage a scooter's control system. The intensity of the interfering EM energy can be measured in volts per motor (V/m). Each Motorized scooter can resist EMI up to a certain intensity. This is called its "immunity level". The higher the immunity level, the greater the protection. The FDA has stated that all newly manufactured electric mobility vehicle models should have a resistance of at least 20 V/m, which would provide a reasonable degree of protection from the more common sources of radiated EMI.

Your **EasyTravel Lite** as shipped, with no further modification, has an immunity level of 20 V/m. This immunity was tested with the inclusion of these accessories: a utility basket with a spare battery-pack and the charger unit carried inside it.

There are a number of sources of relatively intense electromagnetic fields in the 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 warnings listed below, your risk to 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 citizens 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; and
- 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, and cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause EMI problems to motorized scooters.

Motorized scooter Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the motorized scooter's control system while using these devices. This can affect the scooter's movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of your **EasyTravel Lite**.

WARNINGS

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect motorized scooters. Following the warnings listed below should reduce the chance of unintended brake release or powered wheelchair movement, which could result in serious injury.

- 1) Do not operate hand-held transceivers (transmitters-receivers), such as citizens band (CB) radios, or turn ON personal communication devices, such as cellular phones, while your **EasyTravel Lite** is turned ON;
- 2) Be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them;
- 3) If unintended movement or brake release occurs, turn your **EasyTravel Lite** power switch OFF as soon as it is safe to do so;
- 4) Be aware that adding accessories or components, or modifying your **EasyTravel Lite**, may make it more susceptible to EMI (Note: There is no easy way to evaluate their effect on the overall immunity of your **EasyTravel Lite**);
- 5) Report all incidents of unintended movement or brake release to your Authorized **EasyTravel Lite** dealer or service center, and note whether there is a source of EMI nearby.

Guidance and manufacturer's declaration - electromagnetic emissions for all ME EQUIPMENT and ME SYSTEM.

Table 1: Guidance and manufacturer's declaration – electromagnetic emissions

The **EasyTravel Lite** is intended for use in the electromagnetic environment specified below. The customer or the user of the **EasyTravel Lite** should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The EasyTravel Lite uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment
RF emissions CISPR 11	Class B	The EasyTravel Lite is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes
Harmonic emissions IEC 61000-3-2	A	
Voltage fluctuations/ Flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration - electromagnetic immunity for all ME EQUIPMENT and ME SYSTEM.

Table 2: Guidance and manufacturer's declaration – electromagnetic immunity		
The EasyTravel Lite is intended for use in the electromagnetic environment specified below. The customer or the user of the EasyTravel Lite should assure that it is used in such an environment.		
Immunity test	Compliance level	Electromagnetic environment - guidance
Electrostatic Discharge(ESD) IEC 61000-4-2	±2kV, ±4kV, ±6 kV contact ±2kV, ±4kV, ±8kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment
Surge IEC 61000-4-5	±1 kV lines to lines	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, voltage interruptions IEC 61000-4-11	For 0,5 cycle: >95% dip in U_T For 5 cycle: 60% dip in U_T For 25 cycle: 30% dip in U_T For 5 s: >95% dip in U_T	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment

Note: U_T is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration – electromagnetic immunity for ME EQUIPMENT and ME SYSTEM that are not LIFE-SUPPORTING.

Table 3: Guidance and manufacturer's declaration – electromagnetic immunity

The **EasyTravel Lite** is intended for use in the electromagnetic environment specified below. The customer or the user of the **EasyTravel Lite** should assure that it is used in such an environment.

Immunity test	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80MHz	<p>Portable and mobile RF communications equipment should be used no closer to any part of the SYSTEM, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = \left[\frac{3.5}{V_1} \right] \sqrt{P}$ $d = \left[\frac{3.5}{E_1} \right] \sqrt{P} \quad 80\text{MHz to } 800\text{MHz}$ $d = \left[\frac{7}{E_1} \right] \sqrt{P} \quad 800\text{MHz to } 2.5\text{GHz}$ <p>Where P is the maximum output power rating of the transmitter in Watt (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2.5GHz	

Recommended separation distances between portable and mobile RF communications equipment and the ME EQUIPMENT and ME SYSTEM – for ME EQUIPMENT and ME SYSTEM that are not LIFE-SUPPORTING.

Recommended separation distances between portable and mobile RF communications equipment and the **EasyTravel Lite**

The **EasyTravel Lite** is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the **EasyTravel Lite** can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the **EasyTravel Lite** as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150kHz to 80 MHz $d = [\frac{3.5}{V_1}] \sqrt{P}$	80MHz to 800MHz $d = [\frac{3.5}{E_1}] \sqrt{P}$	800MHz to 2.5GHz $d = [\frac{7}{E_1}] \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

11. GENERAL MAINTENANCE AND INSPECTIONS

Minimum maintenance should prevent unnecessary repairs.

Keep Your *EasyTravel Elite* Shining

Wipe the seat clean with a damp cloth. Protect the painted parts with a coat of auto wax.

WARNING: Water or Excessive moisture around the controller unit or electrical connections may cause contamination of electrical circuitry, damage and malfunction as well as personal injury. Do not leave your *EasyTravel Elite* in the rain or in excessively humid locations.

Daily Checks

With the *EasyTravel Elite* switched off, check that the hand control lever mechanism returns to the rest position when you push and release. If there is a problem do not use the *EasyTravel Elite* and contact your authorized dealer.

Weekly Checks

1. **Throttle test:** Pull the throttle to the full speed position and switch ON the Power switch. The *EasyTravel Elite* should not move and the LED on the panel should flash. If the *EasyTravel Elite* does move – do not use your *EasyTravel Elite*. Contact your authorized dealer.
2. **Automatic brake and drive test:** This test should be carried out on a level surface with at least 3' / 1 m. clear space around the *EasyTravel Elite*:

- Switch the *EasyTravel Elite* on.
- Move the control lever only slightly in the forward direction until you hear a “click” when the brake disengages. The *EasyTravel Elite* should start to move forwards slowly.
- Immediately release the throttle. You must be able to hear a “click” when the brake engages back, within a few seconds.
- Repeat the test in the reverse direction.

If you do not hear the brake operating, or the *EasyTravel Elite* does not move slowly in the expected direction – do not use your *EasyTravel Elite*. Contact your authorized dealer.

Monthly Care

Clean upholstery, plastic and metal parts with a mild surface cleaner.

CAUTION: Keep cleaning solvents away from electrical wires and connectors.

Half-Year Care

1. Apply a lubricant/cleaner (such as WD40 or similar) these locations:
 - ❑ Column tilt lock pin and housing.
 - ❑ Unfolded lock pin and housing.
 - ❑ Battery pack lock pins.
2. Lightly apply Vaseline or similar lubricant to battery contact pins and springs on front column.
3. Check for tire wear.

Fuse Replacement Instructions

A fuse protects the wiring and battery in the event of a short circuit. If your **EasyTravel Elite** stops abruptly, check the fuse. If it has 'blown', check for overloads or short circuits.

The fuse is located inside the battery case. To replace the fuse, open screws (Fig. 15/1) and remove cover (Fig. 15/2). Remove the fuse (Fig. 15/3) from its socket. If 'blown', replace with the same style and size (automotive "blade" type – 20 A). There is a spare fuse attached to the battery-pack cover.

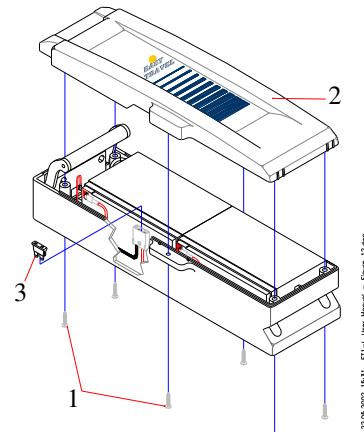


Figure 15

WARNING: Do not attempt to repair or service the **EasyTravel Elite** or any of its components, as this will void your warranty.

12. FAULT FINDING

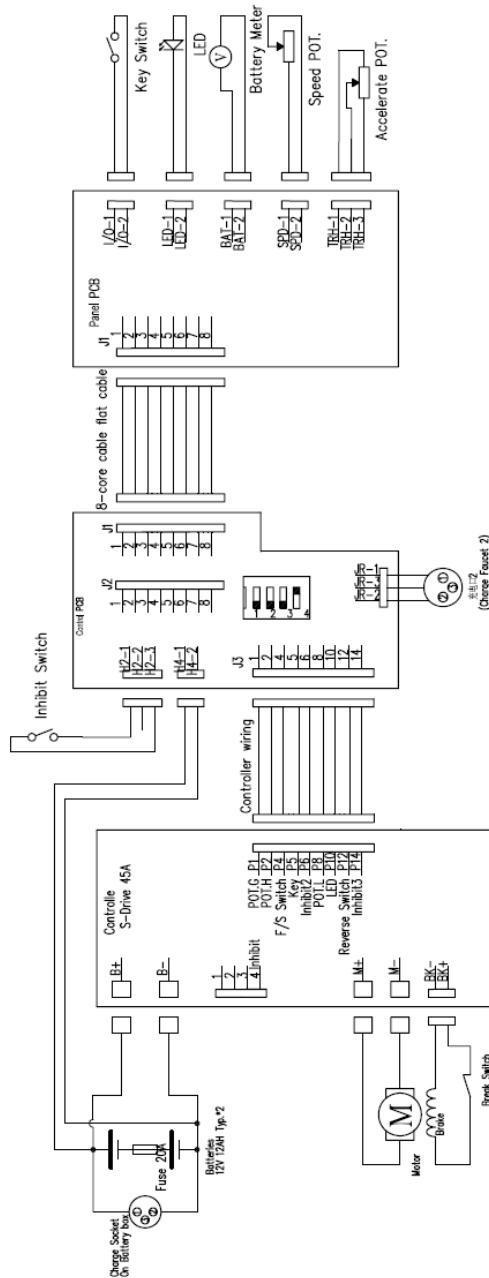
Hereunder are some types of disorders, which can usually be repaired rather simply. If these following measures are unsuccessful, contact your authorized dealer!

Problem	Check Point
The driving of the wheelchair is too slow or insufficient, the status indicator lamp flashes slowly	Batteries are exhausted and need to be recharged
The EasyTravel Elite does not function, the Battery/Status indicator flashes rapidly. Count the number of flashes:	1 flash The battery needs charging or there is a bad connection to the battery. Check the connections to the battery or charge batteries.
	2 flashes There is a bad connection to the motor. Check all connections between the motor and the controller.
	3 flashes The motor has a short circuit to a battery connection.
	4 flashes Freewheel is engaged.
	5 flashes Not used.
	6 flashes The controller is being inhibited from driving; this may be because the battery charger is connected.
	7 flashes A throttle fault is indicated. Make sure that the throttle is in the rest position before switching on the scooter
	8 flashes A controller fault is indicated. Make sure the controller connections are secure.
	9 flashes The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the controller connections are secure.
	10 flashes An excessive voltage has been applied to the controller. This is usually caused by a poor battery connection. Check the battery packs and controller connections.

13. DISPOSAL AND RECYCLING

- The packing material must be separated to plastic and paper/cardboard components and submitted to authorized recycling locations.
- The **EasyTravel Elite** device consists of electronic components, cables, plastic parts, steel and aluminium frame and adapter parts. Do not discard of any components to normal garbage facilities. When **EasyTravel Elite** is no longer operational, it is to be dismantled and separated into above material groups and submitted to authorized recycling facilities.

14. WIRING DIAGRAM



WARRANTY

The warranty period for the ***EasyTravel Elite*** is twelve months and covers faulty materials and workmanship (consumables not covered: tyres, upholstery, lamp bulbs, plastic coverings and batteries). Worn parts damaged as a result of excessive loading, improper handling, intentional damage or unauthorized maintenance or modifications are not covered by the warranty.

For safety and for warranty assurance reasons, any modifications and repair of the ***EasyTravel Elite*** or its components must be performed exclusively by authorized personnel and exclusively with original spare parts.



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