

AutoFold Elite Scooter



Instruction Manual

CE

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All product images in this document are for illustration purposes only.

I. PREFACE

Please read this Owner's Manual before operating your scooter for the first time. Improper use or unfamiliarity of the scooter may result in harm, injury, or traffic accidents.

This Owner's Manual includes operation instructions, assembly instructions, and best practices to ensure maximum use from your scooter.

The symbols used throughout this Owner's Manual are explained below. Read carefully, and fully understand the sections marked with these symbols:



WARNING – Improper use could lead to death, serious injury, hazardous conditions, or product malfunction.



ATTENTION – Improper use could lead to injury and/or damage to your scooter.



SUGGESTION – Follow these instructions for best practices, and to keep your scooter in prime operating order.

This Owner's Manual includes a repair maintenance record chart and warranty. Please keep it in a safe place, or with the scooter.

If someone else uses the scooter, please provide a copy of the Owner's Manual for their consideration.

This Owner's Manual is composed from the product design and specifications at the time of Publication. As designs change, some illustrations and pictures in the manual may not correspond to the scooter that you purchased. We reserve the right to make design modifications.

Intended Purpose: To transport an end user with restricted mobility.

Intended users: Any mobility restricted user who is up to 125kg in weight (inclusive of any accessories and other additional weight on the scooter e.g. shopping) and is both mentally and physically capable of operating the scooter.

Indications for use: To provide mobility to an end user who has difficulty walking due to an injury, physical disability or medical condition.

Environment of use: The scooter is a class II carriage (under the UK Road Traffic Act 1988). It may be used on footpaths, pavements, bridleways, in pedestrian areas and can be used on the road if a pavement is not available or to cross a road.

The manufacturer disclaims all responsibilities for any personal injury or property damage which may occur as a result of improper or unsafe use of this product.

II. SAFETY NOTICES

- Read and follow the information in the owner's manual.
- Fully charge the battery after every trip and prior to using the scooter. If you do not frequently use the scooter fully charge the batteries every 3 months to prevent battery failure.
- If the battery gauge drops to 1 flashing bar, charge the scooter as soon as possible. Completely discharging the batteries may damage the batteries or shorten the expected life of the batteries.
- Wear proper safety attire when handling batteries.
- Keep metal objects away from the battery terminals, electric shock may occur.
- Always make sure the power is turned off when getting on and off the scooter.
- Always make sure freewheel levers are in the drive position before getting in or out of the scooter.
- To ensure the user's familiarity with the scooter's operation, practice driving at low speeds in a spacious hazard-free area travelling forward, backward, left, right, decelerating, manoeuvring up inclines, and down inclines.
- Avoid unnecessary movement of the scooter.
- Never reach, lean or bend when driving your scooter.
- Do not put the scooter in freewheel when on an incline or decline.
- Do not fold or unfold the scooter on an incline or decline. Only operate the scooter folding mechanisms on flat ground.
- Do not attempt to drive on gradients of more than 6 degrees.
- Do not use the scooter with these individuals: Children or infants, this device has not been evaluated for pediatric use; Persons incapable of expressing their thoughts or intentions.
- Do not exceed the maximum weight capacity (125 kg).

- **Avoid exposure to moisture, standing water, rain, snow, ice or salt when possible. Seek shelter immediately if you are caught in the rain or other inclement weather.**
- **Store in a clean and dry condition.**
- **Do not drive your scooter at night without proper lighting.**
- **Do not remove the anti-tip wheels.**
- **Keep your feet on the foot board at all time during operation.**
- **Do not stand on the foot board.**
- **Keep your hands and feet away from moving parts while driving.**
- **Be aware of loose-fitting clothes that can become caught in the drive wheels.**
- **Do not connect an extension cord to the battery charger.**
- **Disassembling the controller, motor, or charger by anyone other than an authorised Drive DeVilbiss service agent is prohibited and voids any applicable warranty.**
- **Do not take your scooter on roads or highways (see environment of use content in section I for exceptions).**
- **Do not operate your scooter when you are tired, or after consuming alcohol.**
- **Be cautious when driving your scooter in busy areas or shopping malls.**
- **Under no circumstances should the scooter be used as a seat in a motor vehicle.**
- **Do not attempt to lift your scooter by any parts other than the frame.**
- **If you will be seated in your scooter for an extended period, power off the scooter. Otherwise, the scooter will go in to sleep mode automatically after approximately 30 minutes of inactivity. If this happens, switch the scooter off and on with the key.**
- **If a serious incident occurs, Drive DeVilbiss Healthcare Ltd. and the local competent authority should be contacted immediately.**

III. SAFETY GUIDELINES

GENERAL GUIDELINES

Before operating your scooter fully read and understand this Owner's Manual.

Be sure to follow the Quick Start Guide prior to using your scooter for the first time.

Users may encounter difficult manoeuvring situations such as narrow doorways, travelling up and down ramps, cornering, and on uneven terrain. Be sure to lower the speed, take your time, and carefully manoeuvre the scooter.

MODIFICATIONS

Do not modify, remove, disable, or add any parts, features, or functions on your scooter. Drive DeVilbiss offers a wide variety of accessories for your scooter to help accommodate your needs.



WARNING – Do not modify your scooter in any way; doing so will void the warranty.

SAFETY CHECK



ATTENTION – Inspect the following components before each use:

- Electrical connections – secure and free from corrosion
- Freewheel Levers – engaged in drive position
- Batteries – fully charged and free from corrosion

If you notice a problem, please contact your authorised Drive DeVilbiss Provider for assistance.

WEIGHT CAPACITY

This scooter has a maximum weight capacity that should never be exceeded. Please refer to Section XI SPECIFICATIONS for this information. The maximum weight capacity includes the user and any accessories.



WARNING – Exceeding the maximum weight capacity will void your warranty. Drive DeVilbiss will not be held responsible for injuries and/or damages resulting from failure to observe weight capacities.



WARNING – Do not carry passengers on your scooter. Your scooter is designed and tested for one user to operate while seated.



WARNING – Do not exceed the maximum weight capacity (125 kg).

INCLINE GUIDELINES

Use caution when approaching inclines or declines, if necessary lower the speed before travelling on a slope.

When travelling up an incline try to keep the scooter moving forward. If you must come to a stop, use caution, and slowly accelerate the scooter forward.

When travelling down an incline lower the speed on your scooter to the slowest setting and proceed cautiously. If the scooter is travelling down the incline faster than you expected, slowly release the throttle to come to a stop, then slightly push the throttle forward to come safely down the incline.



WARNING – Never put the scooter in freewheel model while on an incline. Do not fold or unfold on an incline.



WARNING – Drive your scooter straight up or down an incline, never backwards. Erratic movements, or back and forth patterns may increase the chance of tipping.



WARNING – Do not attempt to drive on slopes more than 6 degrees.



WARNING – Be careful when driving on inclines. Inclines vary and doing so may decrease stability.



WARNING – Do not, under any circumstances, travel on a gradient greater than the maximum climbing angle for this scooter. Please refer to Section XI SPECIFICATIONS for this information. Exceeding the climbing angle may cause unstable conditions.

BRAKES & STOPPING

Coming to a stop in your scooter can simply be done by releasing the throttle. The throttle will automatically return to the centre position and the scooter will come to a stop.



ATTENTION – Quickly moving the throttle in the opposite direction of travel will cause the scooter to come to an abrupt stop, and if held continuously in the opposite direction may cause erratic movements if you are unfamiliar with the controls.

Your scooter is equipped with two types of brake systems:

- **Regenerative brakes** – when the throttle is returned to the centre position, or stop neutral position, regenerative brakes use electricity to quickly decelerate the vehicle.
- **Park brakes** – once the scooter comes to a complete stop the park brake activates automatically locking the drive wheels.

OUTDOOR OPERATION & INCLEMENT WEATHER PRECAUTIONS

While your scooter is purposed for in-home use to assist you in daily living activities Drive DeVilbiss understands there are times you need to operate the scooter outdoors and has designed it to perform superbly on level outdoor surfaces.



ATTENTION – When operating outdoors avoid uneven terrain, soft surfaces, tall grass, loose gravel, loose sand, fresh water, salt water, edges of streams, lakes or oceans. If you are unsure about a surface, avoid it.

Exposure to inclement weather should always be avoided. If you find yourself caught in inclement weather while operating your scooter, proceed to the closest shelter immediately. Completely dry your scooter before operating, charging, or storing. If the scooter is used outdoors, we strongly recommend using a tiller pod protector accessory.

PHYSICAL LIMITATIONS, Re: DRUGS, ALCOHOL & SMOKING

You must exercise awareness, caution care, and common sense when operating your scooter. Always keep in mind your own limitations, and substance use when operating your scooter.



WARNING – Never use your scooter while under the influence of alcohol or mind-altering substances.



WARNING – Never smoke while seated in your scooter. Damaged or worn upholstery increases the risk of fire hazard and should be replaced immediately.



ATTENTION – Be aware of your own physical limitations when familiarizing yourself with the scooter.



ATTENTION – Be aware of precautions, warnings, and safety issues when taking prescribed or over-the-counter drugs while operating your scooter.

Contraindications

This scooter should not be used in the following situations:

- User exceeds maximum patient weight.
- Users with impaired cognition, judgment and/or motor coordination.
- User has postural support needs.
- Users with visual impairments.
- Users who suffer from uncontrolled seizures or fits.
- Users with spatial neglect.

Other contraindications may be relevant which are specific to the individual and/or environment of use.

STEPS, KERBS & FIXED OBSTACLES

Use extreme caution on when operating your scooter near kerbs, porches, stairs, escalators, drop-offs, unprotected ledges, and raised areas.



WARNING – Never attempt to navigate your scooter over a fixed obstacle taller than the maximum ground clearance. Please refer to Section XI SPECIFICATIONS for this information.



WARNING – Never attempt to navigate your scooter backwards over an obstacle.



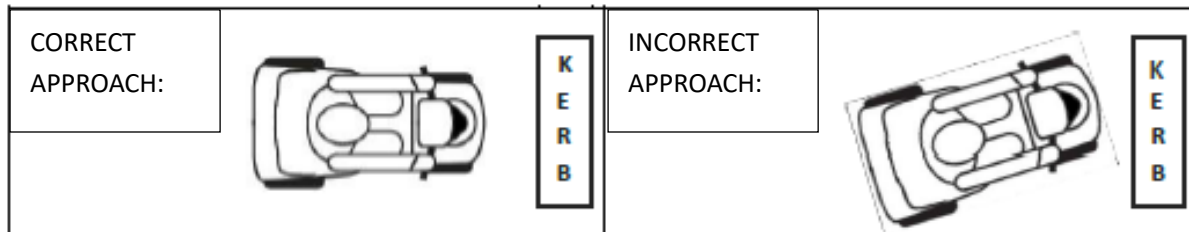
WARNING – Never attempt to operate your scooter on steps or escalators.



ATTENTION – Refer to the following guidelines and diagrams when travelling over a fixed obstacle lower than the maximum ground clearance of your scooter:

To manoeuvre up a fixed obstacle – Approach slowly, and make sure the front of the scooter is perpendicular to the obstacle. Increase the forward speed until the scooter has cleared the obstacle, and then you may reduce the speed or return the throttle to neutral.

To manoeuvre down a fixed obstacle – Approach slowly, and make sure the front of the scooter is perpendicular to the obstacle. Reduce the forward speed just before the front wheels meet the obstacle and remain at the reduced speed until scooter has cleared the obstacle, then you may increase the forward speed.



TRANSPORTING YOUR SCOOTER

When transporting your scooter by vehicle it should be securely stowed in the back of a van, truck, or boot of a car. Adjustable parts should be removed or properly secured during transport.



WARNING - Do not sit in your scooter while in a moving vehicle.

POSITIONING BELT (OPTIONAL)

A safety belt may be included with your scooter. Your authorised Drive DeVilbiss Provider, assistive technology therapist, or healthcare professional are responsible for determining your requirement for a safety belt to operate your scooter safely. Once determined, securely fasten the safety belt.



WARNING – The safety belt is not designed for use as a seat belt in a motor vehicle, or any other transportation device.

TRANSFERS

Always have an attendant present while transferring in and out of your scooter.



ATTENTION – To reduce the possibility of an injury; perform transfers after the following steps are followed: Safely reduce the distance between your scooter and the object you are transferring onto, ensure your scooter is not in freewheel mode, turn the power off, and flip up or remove the armrests.



WARNING – Position yourself as far back as possible before transferring, and never place your weight or downward force on adjustable parts.

IV. EMI INFORMATION

Electromagnetic interference (EMI) tests have shown to produce adverse effects on the performance and control of electrically powered mobility devices.

EMI can be produced from different sources such as cellular phones, two-way radios, radio stations, television stations, amateur radio transmitters (HAM), wireless computer links, microwave signals, paging transmitters, and transceivers used by emergency vehicles.

The EMI waves can cause unintentional movement of the scooter, or damage to the controller. Every electrically powered mobility device has a resistance to EMI. The higher the resistance level the greater the protection. The intensity of the interference can be measured in volts per meter, V/m.

At this time, current technology is capable of achieving an immunity level of 20 V/m, which provides protection from more common sources of EMI. Your scooter, with no modifications has an immunity level of 20 V/m.

EMI becomes more intense as you move closer to the source. The EMI produced from hand-held radios are of special concern. It is possible to unintentionally bring high levels of EMI very close to the scooter's control system, effecting your movement and braking. The warnings listed below are recommended to prevent possible interference with the control system of your scooter.



WARNING – Do not operate hand-held transceivers such as CB (citizens band) radios, or turn on personal communication devices, such as cellular phones, while the scooter is powered on.



WARNING – Be aware of nearby transmitters, such as radio or television stations, and avoid close proximity.




WARNING – If you experience unintended movement or brake release occurs, power off as soon as it is safe. Please report EMI incidents to Drive DeVilbiss.

V. EMC INFORMATION

This device complies with Medical EMC Standard IEC 60601-1-2:2014.

Guidance and manufacturer's declaration – electromagnetic emissions		
The AutoFold Elite Scooter is intended for use in the electromagnetic environment specified below. The customer or the user of the AutoFold Elite Scooter should assure that it is used in such an environment.		
Emissions	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The AutoFold Elite Scooter 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 AutoFold Elite Scooter 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	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity			
The AutoFold Elite Scooter is intended for use in the electromagnetic environment specified below. The customer or the user of the AutoFold Elite Scooter should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment -guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV 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 ±1 kV for input/output lines	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment or typical home environment
Surge IEC 61000-4-5	± 1 kV line(s) and neutral	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment or typical home environment
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment or typical home environment. If the user of the AutoFold Elite Scooter requires continued operation during power mains interruptions, it is recommended that the AutoFold Elite Scooter be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment or typical home environment.
NOTE UT is the AC mains voltage prior to application of the test level			

Guidance and manufacturer's declaration – electromagnetic immunity			
The AutoFold Elite Scooter is intended for use in the electromagnetic environment specified below. The customer or the user of the AutoFold Elite Scooter should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
<p>Conducted RF IEC 61000-4-6</p> <p>Radiated RF IEC 61000-4-3</p>	<p>3 Vrms 150 kHz to 80MHz 6Vrms in ISM bands 3 V/m 80 MHz to 2.7GHz 385MHz-5785MHz Test specifications For ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of EN 60601-1-2:2015)</p>	<p>3 Vrms 150 kHz to 80MHz 6Vrms in ISM bands 3 V/m 80 MHz to 2.7GHz 385MHz-5785MHz Test specifications For ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of EN 60601-1-2:2015)</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the AutoFold Elite Scooter, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance</p> $d = [3,5/V1] \times P^{1/2}$ <p>$d = 1.2 \times P^{1/2}$ 80 MHz to 800 MHz $d = 2.3 \times P^{1/2}$ 800 MHz to 2.5 GHz</p> <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation Distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. B Interference may occur in the vicinity of Equipment marked with the following symbol:</p> <div style="text-align: center;">  </div>
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.</p>			

- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the AutoFold Elite Scooter is used exceeds the applicable RF compliance level above, the AutoFold Elite Scooter should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the AutoFold Elite Scooter.
- b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 10 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the AutoFold Elite Scooter			
The AutoFold Elite Scooter is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the AutoFold Elite Scooter can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the AutoFold Elite Scooter 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)		
	150 kHz to 80 MHz $d=1.2 \times P^{1/2}$	80 MHz to 800 MHz $d=1.2 \times P^{1/2}$	800 MHz to 2.5 GHz $d=2.3 \times P^{1/2}$
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
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.			
NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.			
NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.			

VI. PARTS

Please refer to the diagram below to identify your AutoFold Elite Scooter parts. Familiarise yourself with the terminology to better understand part references throughout the Owner's Manual.



Image for illustration only. Colours may vary.

Please refer to the diagram below to identify your AutoFold Elite Scooter control panel and its functions. Familiarise yourself with the terminology to further understand references throughout the Owner's Manual.



The AutoFold Elite Scooter features an LCD display (below). The Speedo shows the current speed of the scooter. The Power Gauge shows battery voltage and remaining power in the battery. The Odometer displays the current travel time and mileage.



All images are for illustration purposes only.

VII. FOLDING AND UNFOLDING

Prior to using your scooter, familiarise yourself with the automatic folding and unfolding feature through either the keyless remote or buttons integrated on the tiller.



WARNING - Some components of your scooter are heavy, and you may need assistance to lift or carry. Please refer to Section XI SPECIFICATIONS for component weights.



WARNING - Do not make any adjustments while an occupant is seated in the scooter.



WARNING – ALWAYS fully unfold the scooter before use.

Automatic Unfolding

Ensure the scooter is switched on with the ignition key. Press the 'A' button (or A -OPEN button on the tiller) for 1 second to start the unfold process. For safety, the scooter will slowly beep and unfold halfway. Check for obstructions and then press the 'A' button (or 'A-OPEN' button on the tiller) again to fully unfold. The scooter will quickly beep three times when fully unfolded.



Automatic Folding

Ensure the scooter is switched on with the ignition key. Press the 'B' button (or B-CLOSE button on the tiller) for 1 second to start the folding process. For safety, the scooter will slowly beep and fold up halfway. Check for obstructions and then press the 'B' button (or B-CLOSE button on the tiller) again to fully fold. The scooter will quickly beep three times when fully folded.

If the remote key fob is not working or has been replaced, it may need pairing to the scooter. Please visit the appendix at the back of the user manual for instructions on how to do this.

If the buttons do not appear to work, then the scooter may have been opened or closed manually and may need resetting. Please visit the Drive DeVilbiss website for videos on how to do this.

Note: If the button on the tiller or fob is held down for too long then the folding operation will stop. To restart, release the button and then press for 1 second and release.

Fold and Unfold Manually

1. Place the AutoFold Elite Scooter on a level ground and manually lift the red manual fold release lever.
2. After opening to a sufficient height, close the scooter with both hands, and when you hear a "click" the scooter is locked.



3. Move the red manual fold release lever forward to make the scooter in a loose state.
4. Use both hands to fully unfold the scooter. The scooter is fully open when you hear a "click".



Note: You can fold or unfold the scooter manually by releasing the red manual fold release lever. If this is performed, then the opposite action should also be performed manually to reset. Failure to do so will not damage the scooter, but the auto-fold function may not work until the folding mechanism is manually reset. For this reason, it is recommended the manual operation is performed in emergency only.

VIII. OPERATION

After your AutoFold Elite Scooter is assembled, and adjustments have been made you are now ready to operate your scooter. Refer to the tiller diagram in Section VI PARTS for key functions.

The power switch (key ignition) applies power to the control system electronics, which in turn supplies power to the motors. Turn the power switch to the “on” position to turn on your scooter.



ATTENTION – Do not use the power switch (ignition) to stop, or as a brake. Doing so may shorten the life of the drive components.



SUGGESTION – It is recommended you start at the slowest speed setting when familiarizing yourself with your scooter controls. Once you feel comfortable with the controls, and movement of the scooter you may then increase the speed.

Rotate the speed knob to the lowest speed setting. Engage the throttle using the wigwag lever, and begin steering to drive forward, backward, left or right. Squeeze the right-hand side of the wigwag towards the handlebar to move the scooter forwards. Squeeze the left-hand side of the wigwag towards the handlebar to move the scooter backwards. If you want to stop the scooter, release the wigwag lever and it will automatically return to the centre position to stop the unit. Once familiar with the controls rotate the speed knob to increase the top speed to a comfortable setting.

When the scooter is turned on, the LCD gauge will indicate the remaining power into equal segments. Recharge the battery immediately when only one segment is remaining on the battery icon. We do not recommend using the scooter if only one segment is lit as this can reduce the battery lifespan.



Under no circumstance should lithium batteries be run completely flat and stored completely flat. This will damage the battery and invalidate the warranty.



Do not dismantle the Lithium battery and do not add water. Failure to observe this note will invalidate the warranty and damage the battery and scooter.

Freewheel Lever

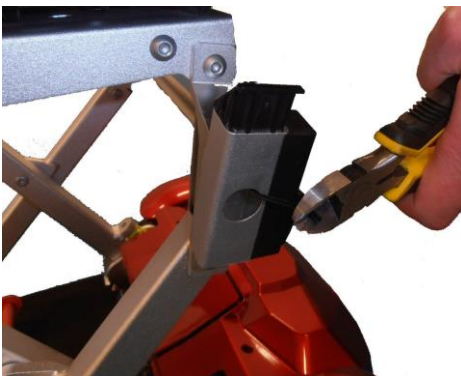
The freewheel lever is located at the rear left hand side of the scooter. Push the lever UP to engage DRIVE mode. This allows the scooter to be driven by the motor and should be engaged under normal operation.



Switch off the scooter and push the lever DOWN to engage FREEWHEEL mode. This should only be engaged if you need to push the scooter manually. Do not sit on the scooter whilst in freewheel mode as this could cause damage and/or injury. The scooter will be hard to manoeuvre if left switched on.

Armrest installation

To install the armrests, first remove the tie-wrap securing the protective plug to the frame and remove this plug. Insert the armrest into the frame and secure with supplied locking bolt, tightening clockwise.

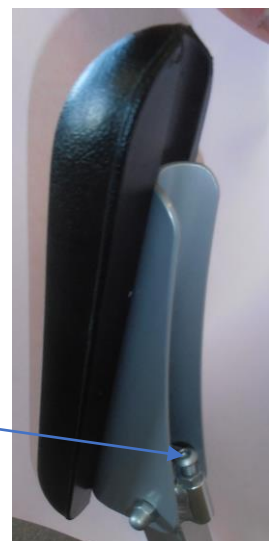


Armrests

Flip up the armrests to allow the user to transfer easily from the scooter to standard seat or to enter/exit the seat. Push the armrests down when the user is sat on the seat, to allow greater comfort for the user.

Armrest Adjustment

To adjust the angle of the armrests, first flip up the armrest and locate the hexagon shaped screw underneath. Turn the screw using a 4mm Hex key until the desired angle is reached. Secure by rotating the jam nut to lock the angle.



Tiller Adjustment

Adjust the tiller angle by pressing the Tiller Angle Adjustment Lever whilst pulling or pushing the tiller to the correct angle for the user. Release the lever to lock the tiller in position. Pull on the Tiller Height Adjustment Catch on the tiller to unlock. Then pull up the tiller until it is set at the correct height for the user. Push the catch to lock the tiller.

USB Operation

The USB port can be used to charge portable devices whilst the scooter is switched on. The USB port will only operate whilst the scooter is switched on, and any devices should be unplugged when the scooter is not in use.

IX. BATTERIES AND CHARGING

Charging your scooter

To charge your AutoFold Elite Scooter, position the front of the unit next to a standard electrical outlet. Plug the charger into the scooter, and then into the electrical outlet. When the batteries are fully charged remove the charger from the scooter. The location of the charging socket is shown here.



SUGGESTION - The light on your charger indicates different charge statuses.

Amber light- Charging in operation.

Green light - This means that the bulk charging (90% charge) is complete and the charger is trickle charging the battery.

Note: The light on the charger is also green when the supply is switched on, but the charger is not connected to the scooter. If you have put your scooter on charge and the light has not turned amber, then check the charger is connected and that there is not a fault with the battery.

BATTERY MAINTENANCE & CHARGING HABITS

To ensure maximum life from your batteries, and continued use of your scooter please follow these charging guidelines based on your usage:



SUGGESTION - If you use the scooter frequently, always charge the battery as soon as you are finished with the scooter and charge the battery for 6 hours. The battery can be charged overnight, but the charger should be disconnected after 12 hours.



SUGGESTION - If you use the scooter infrequently, always charge the battery before storing the scooter away. Disconnect the battery pack from the scooter. Recharge the battery for 6 hours every three months if the scooter is not used.

INITIAL BATTERY CHARGE

To ensure maximum range from your new batteries fully charge the scooter prior to initial use for 6 hours.

BATTERY RANGE

Speed and range may vary depending upon user weight, type and incline of terrain, weather, battery charge and condition, operating speed and general driving situation. If not ideal conditions, all these factors will reduce the travel time or distance between charges. Follow these suggestions for maximum range:



SUGGESTION – Fully charge the batteries prior to any trip and plan your trip in advance to avoid inclines.



SUGGESTION – Limit baggage and accessory weight to essential items, and maintain an even speed avoiding stop-and-go driving.



SUGGESTION - Do not leave the scooter on charge permanently. Remove the charger after 6 hours. If the scooter is not going to be used for a while remove the charger and battery from the scooter to prevent the battery for discharging and its capacity reducing.

PUBLIC TRANSPORTATION



SUGGESTION – When transporting your scooter on public transportation contact your carrier's ticket counter in advance to determine their specific requirements. Material Safety Data Sheets (MSDS) are available upon request.

When using public transport, you may have to remove the battery when the scooter is stowed away. In order to fold the scooter without the battery pack installed, plug the charger in to the scooter to allow power to the fold mechanism.

For this reason, we recommend you always have your charger with you.

When travelling by air, always transport the battery in the cabin and not the hold.

X. CARE AND MAINTENANCE

GENERAL GUIDELINES

Your AutoFold Elite Scooter is an advanced mobility device, and with the correct routine maintenance you can ensure years of maximum use. While some of the maintenance can be done by yourself, you will need assistance from an authorised Drive DeVilbiss provider. If you have any doubts, contact your authorised Drive DeVilbiss provider.

Preventative maintenance is key to keeping your scooter in prime operating condition. Follow the Maintenance Schedule at the end of this section to periodically inspect your scooter for serviceable items.

- ✓ Avoid abuse to the throttle and control functions.
- ✓ Avoid prolonged exposure to extreme heat or cold.
- ✓ Keep the scooter clean and free from moisture.
- ✓ Never use a conditioner on the tread of the wheels.

EXPOSURE TO MOISTURE

Should your scooter come in to contact with water or moisture, dry your scooter thoroughly with a towel. Allow your scooter to sit in a dry place for 8 to 12 hours to allow unseen moisture to evaporate. Check the throttle operation and brakes before using your scooter again. If any items require service, please contact your authorised Drive DeVilbiss provider.

OPERATING TEMPERATURES

Your scooter is designed to operate ideally between 18°F and 122°F (-7°C and 50°C). In extremely cold conditions your batteries may freeze depending on the battery charge, usage, and composition of the batteries. In extremely hot conditions your scooter may operate at a lower speed. This is due to the safety mechanism built into the unit to prevent damage to the gearbox and other electronic functions when operating too hot.

STORAGE

If you need to store your scooter, be sure it is stored in a dry place free from extreme temperatures. Always fully charge, and then disconnect the batteries prior to storage.



ATTENTION – Infrequently charged batteries, or batteries stored without a full charge are susceptible to permanent damage, causing unreliable performance from your scooter.

If your scooter is stored for a prolonged period flat spots may develop in the wheels. This will cause an uneven sensation when driving but should work itself out over time. If you still notice the flat spots after continued use, replace the wheels on your scooter immediately.



SUGGESTION – You can place a sturdy platform under the frame of your scooter to bring the wheels off the ground, and weight off the wheels. This will prevent flat spots from developing while storing your scooter.



WARNING – Improper storage of your scooter may result in permanent damage to the frame and electronics.

CLEANING & DISINFECTION

To clean your scooter, use a damp cloth with a mild, non-abrasive cleaner on the plastic and metal parts. If necessary, clean your scooter with an approved disinfectant safe for use on your unit.



WARNING – Never hose off your scooter or expose it to direct contact with water.



WARNING – Never use any chemicals on the upholstery of your seat, this may cause the seat to dry out and crack.

DISPOSAL OF YOUR SCOOTER & PARTS

You must follow applicable local and national regulations when disposing of your scooter, or defective scooter parts. Contact your local waste agency, recycling centre, or authorised Drive DeVilbiss provider for information on proper disposal.

CONTACTING YOUR AUTHORISED DRIVE DEVILBISS PROVIDER

The following conditions may indicate a serious problem with your scooter. Contact your authorised Drive DeVilbiss provider if one of the following conditions occurs:

- Motor or gearbox noise
- Frayed electrical harnesses
- Cracked or broken connections
- Uneven wear on the tyres

- **Veering to one side**
- **Bent or broken wheel assemblies**
- **Will not power on**
- **Loose seat or seat components**
- **Loose wheels**



SUGGESTION – Fill out your authorised Drive DeVilbiss provider's information below, along with your scooter information for quick reference in the event you may need service.

AUTHORIZED DRIVE DEVILBISS PROVIDER: _____
ADDRESS: _____
PHONE NUMBER: _____
DATE OF PURCHASE: _____
MODEL: _____
SERIAL NUMBER: _____

MAINTENANCE SCHEDULE

Inspect your AutoFold Elite Scooter routinely for service issues and wear & tear items.

INSPECTION	DAILY	WEEKLY	MONTHLY
Inspect the throttle is not bent when in neutral or rest position	✓		
Inspect electrical harnesses are not frayed or have exposed wires	✓		
Check for flat spots on tyres and loose wheels	✓		
Inspect seat and armrests for loose hardware or damage	✓		
Inspect batteries are free from corrosion		✓	
Inspect all harnesses to the controller are securely fastened		✓	
Check the brakes for functionality at lowest speed setting		✓	
Check the anti-tip wheels for wear, and contact with the ground while at rest			✓
Check for sufficient tread on the tyres			✓
Check for proper front wheel alignment (4-wheel scooters only)			✓
Check the entire scooter for loose hardware or changes in performance			✓
Check the entire scooter and clean any mud, dirt, hair, food, drink, etc. on the unit			✓



SUGGESTION – Once a year take your AutoFold Elite Scooter to an authorised Drive DeVilbiss provider for inspection and maintenance.

XI. SPECIFICATIONS

Product Code	Manufacturer code	Drive DeVilbiss code
	S3026-2	FLEX/SUSP/RED
	S3026-6	FLEX/SUSP/BLUE
Weight Limit	125kg	
Top Speed	4mph (6.3km/h)	
Maximum Range*	9.3miles (15km)	
Maximum Climbing Angle	6°	
Ground Clearance	3.8cm (front) / 8cm (mid) / 2cm (anti-tip wheels)	
Turning Radius	140cm	
Scooter Dimensions		
Unfolded (L x W x H) cm	96L x 57W x 94H	
Folded (L x W x H) cm	45L x 57W x 64H	
Highest Point When Folded	64cm (Tiller)	
Seat Dimensions		
Width x Depth	38cm W x 36cm D	
Width between Arms	48cm	
Weights		
Base Weight	25kg	
Battery Weight	2kg	
Total Weight	27kg	
Power		
Motor	24V x 120W	
Controller	PG S Drive 45A	
Batteries	25.2V x 10Ah Lithium (252Wh total)	
Battery Charger	<ul style="list-style-type: none"> • Input: 100-240V 50/60Hz 1.4A max • Output: 29.4V 2A • Ingress protection: IP22 • Class II product 	
Brakes	Electromagnetic	
Freewheel Mode	Yes	
Front Wheels	15 x 4cm	
Rear Wheels	18 x 6cm	
Anti-Tip Wheels	5 x 1.5cm	

* Speed and range may vary depending upon user weight, type and incline of terrain, weather, battery charge and condition, operating speed and general driving situation. The information contained herein is correct at the time of publication Drive DeVilbiss reserves the right to alter specifications.

XII. LIMITED WARRANTY

For the warranty periods listed below, beginning at the date of original purchase, Drive DeVilbiss will repair or replace, at its option to the original purchaser, free of charge, any of the following parts found upon examination by an authorised representative of Drive DeVilbiss to be defective in materials and/or workmanship. The warranties contained herein extend and apply only to the original purchaser.

24-month warranty	12-month warranty	Consumable
Main frame	Electrical harness	Tyres
Seat post	Joystick	Floor mats
Platform	Controller	Armrest pads
Frame welds	Charger	Tubes
	PC Board	Fuses & Bulbs
	Throttle	Anti-tip wheels
	Motor/gearbox assembly	Motor brushes
	Brakes, electromagnetic function only	
	Batteries	

ADDITIONAL COMPONENTS

Items not mentioned or listed are covered at the discretion of Drive DeVilbiss. Any accessories, standard or optional, supplied by Drive DeVilbiss, are covered for a period of one year from the date of purchase with the particular unit.

RECONDITIONED UNITS WARRANTY

All reconditioned units are covered by a 90-day warranty from Drive DeVilbiss effective from the date of purchase.

REPLACEMENT PARTS WARRANTY

Parts that are supplied by Drive DeVilbiss as replacements to warranted parts will be warranted for a period of time equal to the remainder of the original part's warranty period.

SERVICE CHECKS AND WARRANTY SERVICE

Warranty service must be performed by an authorised Drive DeVilbiss provider. Do not return faulty parts to Drive DeVilbiss without prior written authorization. All transportation costs and shipping damage incurred while submitting parts for repair or replacement are the responsibility of Drive DeVilbiss.

Failure to follow the instructions, warnings and notes in the owner's manual and

those located on your Drive DeVilbiss product can result in personal injury or product damage and will void this Drive DeVilbiss product warranty. There is no other express warranty.

IMPLIED WARRANTIES

Implied warranties including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of original purchase and to the extent permitted by law. Any and all other implied warranties are excluded. This is the exclusive remedy. Liabilities for incidental, punitive, special and consequential damages under any and all warranties are excluded. This does not affect your statutory rights.

XIII. QUICK START GUIDE

QUICK START GUIDE

Follow the instructions below to quickly and safely set up and start your AutoFold Elite Scooter.



Images for illustration purposes only.

1. Unpack the scooter, as shown above. You will have the following parts:

- 1 x scooter unit**
- 1 x battery pack**
- 2 x keys**
- 1 x remote fob**
- 2 x armrest**
- 2 x threaded knob for armrest**
- 1 x charger and mains cable**

2. Plug the mains lead into the charger, and then plug the round connector from the charger into the charging socket of the scooter. Finally switch the charger on at the mains.



3. Insert the key into the ignition (as shown below) and switch the scooter on. Then press button on the tiller dash marked 'A-OPEN'. The scooter will then slowly beep and unfold. For safety, the unfold process will stop halfway. Press the button again to fully unfold the scooter. When fully unfolded the scooter will emit three quick beeps.



4. Insert the battery pack as shown below.



5. Flip the backrest into position.



6. Pull on the catch (arrowed) on the tiller to unlock. Then pull up the tiller until it is set at the correct height for the user. Push the catch to lock the tiller.



7. Adjust the tiller angle by pressing the lever (arrowed) whilst pulling or pushing the tiller to the correct angle for the user. Release the lever to lock the tiller in position.



8. Insert the armrest into the receiver.
Note: The angle of the armrest may need adjusting. Please refer to the procedure on page 21.



9. Secure the armrest by screwing the threaded knob into the hole (arrowed).



10. Remove the protective film wrapping on each of the four tyres (not shown).
This only needs performing the first time the AutoFold Elite Scooter is set up.

11. Insert the key into the ignition and turn to start the scooter.



12. CHARGE BEFORE USE

Plug the mains lead into the charger, and then plug the round connector from the charger into the charging socket of the scooter.

Finally switch the charger on at the mains.

The scooter can be charged either unfolded or folded (refer to user manual for folding instructions).

XIV. FOLDING TROUBLESHOOTING

If the key fob is not working or has been replaced, Then the fob may need pairing with the scooter. To do this, please follow the procedure below.

Step 1: Turn on the AutoFold Elite Scooter.



Step 2: Press the A-Open button on the control panel for 5 seconds and then release it. The buzzer will sound continuously, indicating that the control is ready to pair to the key fob.



Step 3: Press both the A and B buttons on the key fob, at the same time. The buzzer will sound 5 short beeps, indicating that the control has paired with the key fob. The buzzer will then continue to sound.



Step 4: Press the B-Closed button on the control panel to silence the buzzer and complete the pairing sequence.



Key Fob and Buttons Not Working

If the folding mechanism is not working when using either the buttons on the tiller or the key fob, then the scooter may have been opened or closed manually and the folding mechanism might need resetting.

1. If the scooter is open, close it manually by lifting on the red lever as shown below:



2. Switch the scooter on and press the Close button on the tiller head or key fob remote.

3. When the scooter finishes beeping, press the Close button again. The red lever should click in to place when the scooter finishes beeping to confirm the mechanism has reset.

Videos showing the above processes are also available on the Drive DeVilbiss website www.drivedevilbiss.co.uk.

XVI. ERROR CODES AND TROUBLESHOOTING

The AutoFold Elite Scooter is installed with a PG Drives S-Drive controller which has an inbuilt error and fault diagnostic system. In the event of an error being detected the scooter will sound a number of high-pitched beeps in quick succession to alert the user of an error. It will then pause and sound a number of long beeps to indicate the error. Count the number of long beeps and then consult the table below:

1 Beep • _ • _ • _	The battery requires charging or there is a bad connection to the battery. Remedy: Recharge Battery
2 Beeps •• _ •• _ •• _	There is a bad connection to the motor. Check all connections between the motor and controller.
3 Beeps ••• _ ••• _ ••• _	The motor has experienced a short circuit to a battery connection. Check all connections between the motor and batteries.
4 Beeps •••• _ •••• _	Not Used
5 Beeps ••••• _ ••••• _	Not Used
6 Beeps •••••• _ •••••• _	The scooter will not move because the charger is plugged in. The scooter does not show this error, as the charger is used to operate the folding mechanism. Remedy: Unplug Charger and Restart Scooter
7 Beeps ••••••• _ ••••••• _	A throttle fault has been indicated. Ensure wigwag paddle is in neutral before switching on the scooter. Throttle may require calibration. Remedy: Release Wigwag Paddle and Restart Scooter
8 Beeps •••••••• _ •••••••• _	A controller fault has been indicated. Make sure all connections are secure. Also cycle keyswitch as this fault can be initiated by a break in circuit during keyswitch initiation.
9 Beeps ••••••••• _ ••••••••• _	There is a fault within the electromagnetic brake circuit. Check all brake and motor connections. Make sure controller connections are secure and that the scooter is not in the freewheel mode. Remedy: Put Scooter into Drive Mode and Restart Scooter
10 Beeps •••••••••• _ ••••••~•••••••••• _	An excessive voltage has been applied to the controller. This is very often caused by a poor battery connection. Check all connections from the batteries to the controller.



Symbol Definitions

The following symbols are found on the Scooter:

	Manufacturer		Item is recyclable
	Importer		Do not drive in rain or snowy weather
	Authorised EU representative		Keep loose clothing clear of the scooter
	Date of Manufacture		Do not operate Mobile phones while the scooter is powered on
	Refer to the Instruction Manual		Warning. Beware of potential hazard
	Medical Device		Warning. Pinch hazard
	Serial Number		WEEE Label. Do not discard the item in general waste. Follow the local recycling policy.
	Catalogue/Reference number		
	Batch code		
	Model number		



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