J50FL-SPORTS
Electric Scooter
User's Manual

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I. **INTRODUCTION**

Thank you for your interest in J50FL-SPORTS scooter. The scooter is a mobility assistive device, designed for senior citizens who have walking difficulty or are weak in physical strength, and for the disabled people.

We designed this scooter to restore the dignity, equality and personal freedom, to provide convenience and comfort to you.

This manual contains important information concerning the safe operation and proper maintenance of your scooters.

Please read this manual thoroughly and carefully to become familiar with all operation instructions prior to operating your J50FL-SPORTS. Should you have any questions concerning the scooter operation or maintenance, please contact your local dealer.

Your J50FL-SPORTS has many unique features not found in other scooters. With proper care and maintenance, you should enjoy many years of dependable service from your unit.

Your scooter should receive regular maintenance according to the schedule outlined in this manual, and the recommendation from the authorized dealer. By following the maintenance instruction, you will be able to take care of most of your unit's needs. Should you be unable to correct a fault in your scooter, contact your scooter dealer immediately.

Above all, follow all service recommendation outlined in this manual to achieve the most trouble free, safe and enjoyable operation of your scooter.

ABOUT THE MANUAL

The manufacturer reserves the rights of final interpretation on the manual. For any printing errors or new improvements, the manufacturer will update in the new editions.

II. SPECIFICATIONS

PERFORMANCE

Maximum forward speed	8.0 km/h (5.0 mph)
Maximum backward speed	4.8 km/h (3.0 mph)
Maximum Climbing Grade	12 degrees
Load Capacity	120kg (265 lb.)
Ground Clearance	70 mm
Range with Full Charge	40-48 km
Turning Radius	1.2 m

DIMENTIONS

Maximum Length	1305 mm
Maximum Width	640 mm
Maximum Height	1170 mm

WEIGHT

Total (withbattery)	87 kg

BATTERY SPECIFICATIONS

12V/38 Ah sealed Lead-acid battery	
Weight	14.kg/ each

BATTERY CHARGER

Input AC /110V/240V 50~60Hz	Output DC 24V/ 5amp

MOTOR	400w (Rated)
24 volt DC	785w (Max)

III. FEATURES

☑ Modular construction - disassembles within one minute without use of tools

☑ Adjustable seat height

☑ Swing away armrests

☑ 360 degrees swivel seat

☑ Adjustable Forward/Reverse Seat

- ☑ Adjustable tiller
- ☑ Dynamic regenerative braking
- ☑ Rear wheel direct drive with differential
- ☑ Full solid-state controller
- ☑ External Battery Charger
- ☑ 24-volt permanent magnet heavy duty DC motor
- ☑ ON/OFF switch lock
- ☑ Horn
- ☑ Head light
- ☑ Turning signal lights
- ☑ Rear lights
- ☑ Battery-charging indicator
- ☑ Anti-tip safety wheels
- ☑ Front and rear stainless steel bumpers
- ☑ Accessories adapter
- ☑ Electronic High/Low speed switch

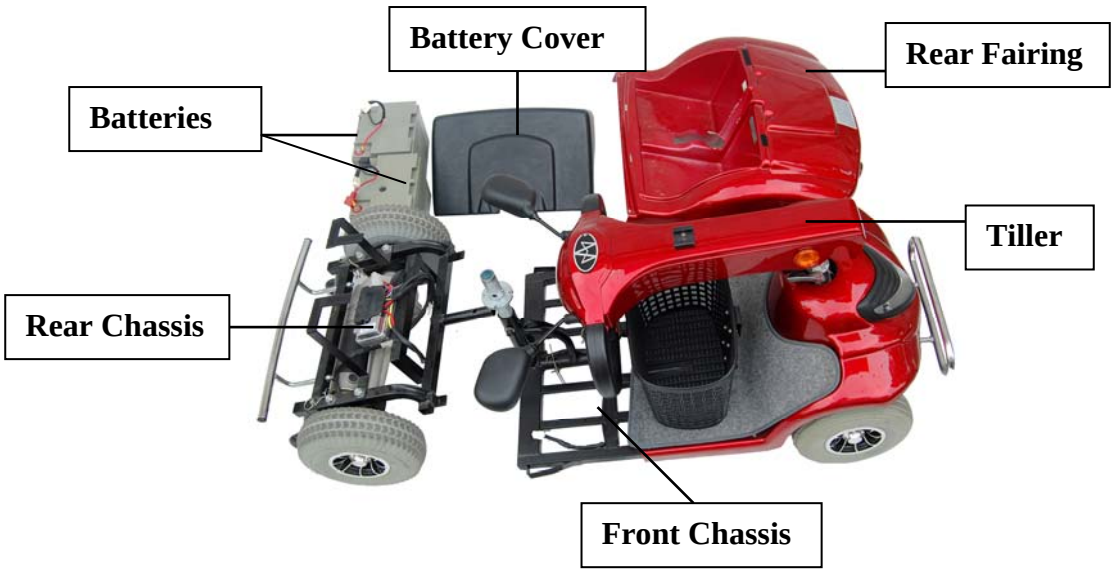
IV. ASSEMBLY AND DISASSEMBLY

The J50FL-SPORTS is designed to assemble and disassemble quickly and easily without the use of tools. Should you need excessive force when you assemble or disassemble your unit, you are probably doing something wrong. Stop immediately! Think for a moment and refer to the user's manual, then try again.

1. MODULES

The scooter consists of the following main modules, which you can put together or dismantle without using any tools:

(1). Front chassis
(2). Rear chassis
(3). Seat
(4). Two batteries
(5). Rear fairing
(6) Battery cover



2. ASSEMBLY

1). Clean the joint head on the rear chassis.

2). Position the front and rear chassis such that the joint head on the rear chassis and hole in the front chassis is aligned.

3). Pull the two chassis together.

4). Insert the security pins into the positioning holes.

5). Plug the control cable from the front chassis into the receptacle of the rear chassis.

6). Adjust the tiller angle by loosening and then tightening the knobs at the joint.

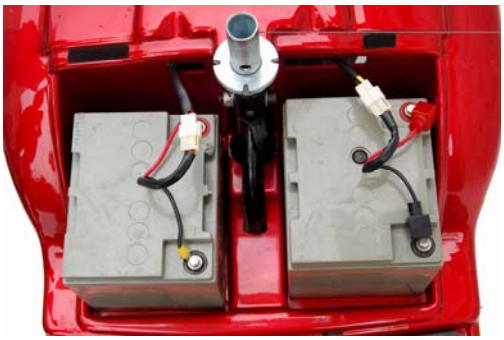
7). Place batteries onto the floor pan and secure them.

8). Join each battery with the receptacles from the controller.

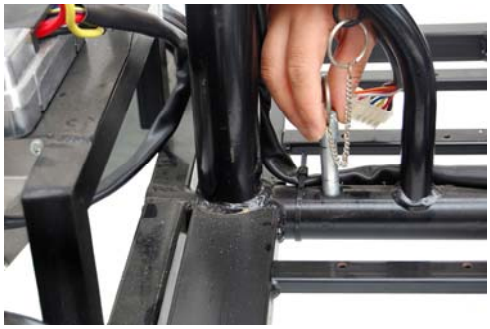
9). Connect the cable for the turning lights, put the rear fairing in place then pull the locking lever under the seat and insert the seat shaft into the seat post.

10). Set the seat on the seat post and swing the seat until you hear a “click” .

11). If you need to adjust the seat height, you may change the position of the bolt in the post.



Battery Connections



Insert the security pins

Pull two chassis together

3.DISASSEMBLY

To disassembly, just reverse the process of assembly. **You must turn off power before dismantle.**

1). Turn off the power and take out the power key from the power switch.

2). Remove the seat from the seat post.

3). Disconnect the turning lights cable and remove the rear fairing.

4). Disconnect the main battery cables from the controller.

5). Remove the batteries from floor pan.

6). Disconnect the front chassis cable from the controller.

7). Fold down the tiller to horizontal.

8). Pull out the security pins from the positioning hole.

9). Holding the tiller by one hand and the seat post by another, push away from each other, while swinging both modules up and down slightly.

4, TRANSPORTATION

Of course, the best way to transport your scooter is when it is fully assembled so you can avoid any possible mistakes during its reassembly. The J50FL-SPORTS can be fit into trunks of most cars, even a compact car such as Ford Focus. Following the steps below, you will find this is really easy.

1). Place the rear chassis first into your car trunk. Put it close to one side and ensure that the clutch is engaged for avoiding possible movement during the trip.

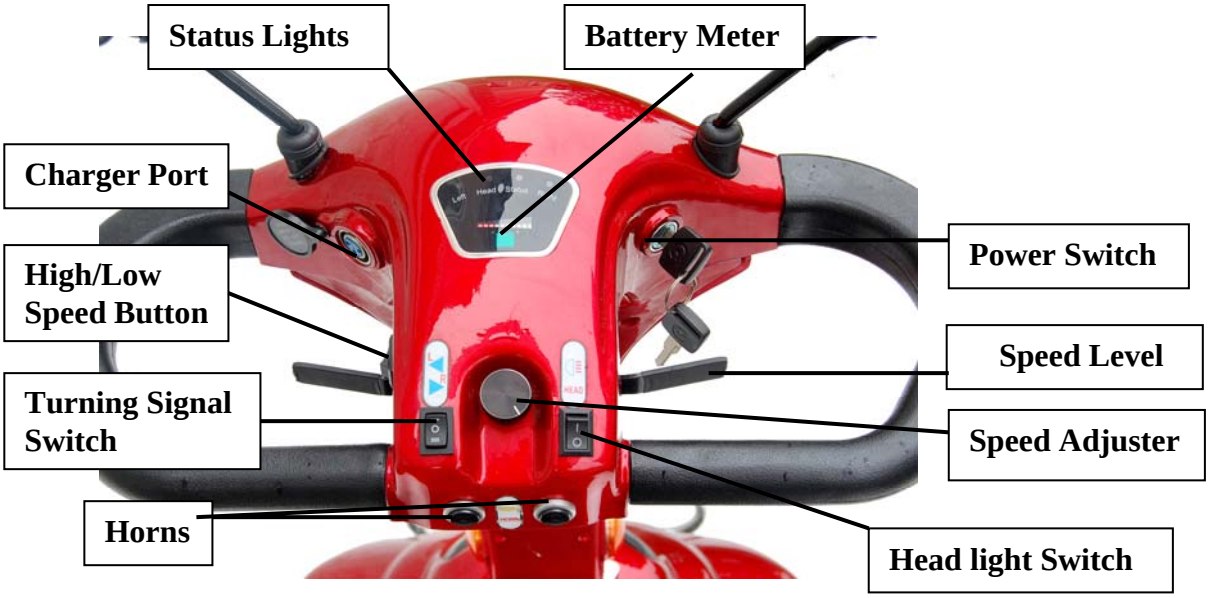
2). Place the front chassis across the remaining section of the trunk.

3). Load the batteries.

4). Place the seat in a way that the upholstery is protected. In case there is no room for the seat, place it upside down on the back seat of your car.

Scooter with tiller down

Picture below is the tiller console for J50FL-SPORTS



V. OPERATING YOUR SCOOTER

1. BEFORE OPERATION

1). Insert the key into the power switch and turn clockwise to the ON position.
2). Check the battery meter to make sure the batteries are fully charged.
3). Make sure that clutch lever is at close position.

2. TURN POWER ON

Insert the key into the power switch on the tiller console then rotate clockwise to the “ON” position.

3. FORWARD MOTION

To move forward, pull the right speed lever under the tiller console backward. The further you pull, the faster the scooter will go. The maximum speed may be set by the speed adjuster located on the top of the tiller console.

3. REVERSE MOTION

To reverse, pull the left side of the speed lever under the tiller console backward. Reverse speed is limited to 3 mph (4.8 km/h).

4. STOP

To stop the scooter, just release the speed lever. The scooter will quietly come to a smooth stop and electromechanical brake will automatically engage to hold the scooter in position on horizontal surface or on an incline of up to 12 degrees, with a load of no more than 265 lb. (120 kg). Quick smooth stops are made possible by the dynamic regenerative braking feature built in the controller.

Warning:

The brake may not be effective when engaged on inclines greater than 12 degrees, or if the occupant’s weight exceeds 250 pounds.

In case the brake fails to engage, the scooter may roll slowly on a slope. Steer the front wheels at an angle with the slope.

5. MOVE YOUR SCOOTER MANUALLY

To move the scooter manually (freewheel), push down the clutch lever mounted on the gearbox.

Clutch lever release for the scooter

VI. SAFETY INSTRUCTIONS

Your scooter can move on grass, gravel, dirt, and sand surfaces, as well as hard paved or carpeted surfaces. However, extra caution should be taken when operating your unit on uneven surfaces other than flat surfaces.

There are some concerns about electromagnetic interference to powered wheelchairs and scooters. You need to know what EMI (Electromagnetic Interference) is and how to prevent such incidents. The following paragraphs suggested by the FDA are intended to provide you some important information about this.

CAUTION:

IT IS VERY IMPORTANT THAT YOU READ THIS INFORMATION REGARDING THE POSSIBLE EFFECTS OF ELECTROMAGNETIC INTERFERENCE ON YOUR POWERED SCOOTER.

Electromagnetic Interference (EMI) From Radio Wave Sources

Powered wheelchairs and motorized scooters (in this text, both will be referred to as powered wheelchairs) 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 the powered wheelchair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powered wheelchair's control system. The intensity of the interfering EM energy can be measured in volts per meter (v/m). Each powered wheelchair can resist EMI up to certain intensity. This is called its "immunity lever." The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20-v/m immunity level, which would provide useful protection from the more common sources of radiated EMI. The immunity level of this powered scooter as shipped, with no further modification, is not known.

There are ample 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 talkie," 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 your powered wheelchair.

Powered 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 powered scooter's control system while using these devices. This can affect powered scooter movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered scooter.

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 scooter and motorized scooters. Following the warnings listed below should reduce the chance of unintended brake release or powered scooter 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 the powered scooter 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 the powered scooter OFF as soon as it is safe.

4) Be aware that adding accessories or components, or modifying the powered scooter, may make it more susceptible to EMI (Note: There is no easy way to evaluate their effect

on the overall immunity of the powered scooter.

5) Report all incidents of unintended movement or brake release to the powered scooter manufacturer, and note whether there is a source of EMI nearby.

If unintended movement or brake release occurs, turn the power OFF as soon as it is safe.

FDA recommends that you report all incidents of unintended motion or brake release to us or your dealer, and if possible, note whether there was a radio wave source nearby at the time of the incident. You may also report to FDA's MedWatch problem reporting program. Call 1-800-FDA-1088 and ask for Form 3500.

The following warning label is included in order to make users always aware that a possibility of electromagnetic interference exists.

WARNING: Radio wave sources may affect scooter control
Radio waves sources, such as radio stations, TV stations, amateur radio (HAM) transmitters, cellular phones, and two-way radios, can affect motorized scooters. Following the warnings listed below should reduce the chance of unintended brake release or scooter movement, which could result in serious injury. 1). Do not turn ON or use hand-held personal communication devices, such as citizens band (CB) radios and cellular phones, while your scooter is turned ON; 2). Be aware of nearby transmitters, such as radio or TV stations and hand-held or mobile two-way radios, and try to avoid coming close to them. 3). If unintended movement or brake release occurs, turn the power OFF as soon as it is safe. 4). Be aware that adding accessories or components, or modifying your scooter, may make it more susceptible to interference from radio wave sources. (Note: There is no easy way to evaluate their effect on the overall immunity of the scooter), and 5). Report all incidents of unintended movement or brake release to the scooter manufacturer, and note whether there is a radio wave source nearby. Important Information: 1) 20 volts per meter (v/m) is a generally achievable and useful immunity lever, against interference from radio wave sources (as of May 1994) (the higher the lever, the greater the protection); 2) The immunity level of this product is not known.
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In summary,

- **DO NOT** try to climb sharp curbs.

- **DO NOT** drive off or over obstacles exceeding 7 cm in height.

- **DO NOT** make abrupt changes in direction at high speed or while traveling on an incline.

- **DO NOT** climb inclines greater than 12 degrees or a rise of 2 meters in 10 meters.

- DO NOT move backward on uneven surfaces or inclines.

- **DO NOT** travel on highways and freeways; ALWAYS stay in the bike lanes or sidewalks.

- **DO NOT** carry adult and child together in any manner.

- **DO NOT** operate your unit when the red battery indicator light is flashing.

- **DO NOT** operate your unit with the clutch lever in the disengaging position.

-DO NOT assembly or disassembly your unit with power switch in the "ON" position.

- **DO NOT** turn ON or use hand-held personal communication devices, such as citizens band (CB) radios and cellular phones, while your scooter is turned ON.

- **ALWAYS** make sure that the chassis lock pin is in position.

- **ALWAYS** make sure that the steering tiller adjustment knob is tight.

- **ALWAYS** make sure that the seat is locked in position so that it will not swing during operation.

- **BE AWARE** of nearby transmitters, such as radio or TV stations and hand-held or mobile two-way radios, and try to avoid coming close to them.

-BE AWARE that adding accessories or components, or modifying your scooter, may make it more susceptible to interference from radio wave sources.

VII. BATTERY CHARGING

To ensure the best performance and maximum battery life, we recommend frequent battery charging. Your scooter comes with an external battery charger for your ease and convenience. The battery meter makes charging simple and easy. Follow these steps for battery charging.

1). The battery meter displays three green lights (100% and 50%), three yellow lights (25% you`d better charge now), and four red lights (almost empty, you must charge them right now).

2). On a dry surface, turn off the power switch and plug the extension cord into the charger port located on the tiller console. Then plug the other end of the charger cord into a wall outlet.

3). Charge the battery for 6-8 hours depending on the usage before charging. Disconnect the extension cord, insert key into power switch and check if all green lights are on. If the green lights are not all on, remove the key and reconnect the charger for a while longer.

4). There is no possible way to overcharge the battery because the battery charger you use will automatically switch to a sleeping mode. In general, you may start charging before you go to bed at night and disconnect it in the next morning.

VIII. MAINTENENCE SCHEDULE

In order to obtain the best performance and lasting service life, please maintain your unit according to the following schedule and instructions:

DAILY

Test brake effectiveness before you drive.
Recharge battery fully every night.

WEEKLY

1. Check tire pressure. Pressure should be 40 - 50 psi.
2. Clean seat upholstery, plastic body and covers. To avoid an electrical failure, do not spray water directly to your unit. Use a damp clean rag to clean all parts.
3. Check and tighten the speed lever screw.

MONTHLY

1. Check battery condition, clean terminals if necessary.
2. Check all electrical wire connectors to eliminate loose connections.
3. Tighten all exposed bolts and nuts.
4. Check wheel bearings by spinning tires and free rotation.

YEARLY

Visit your dealer and let technician check your scooter thoroughly.

Ⅸ WARRANTY

To guarantee your benefits and the excellent after-sale service provided by the manufacturer, please read the following carefully.

I) GUARANTEE CONTENTS, TARGETS AND DEADLINE:

1. g uarantee contents:

We honor the unit purchased directly from the manufacturer or authorized dealer. Operate according to the instructions described in this manual. The manufacturer guarantees to any quality problems concerning its manufacturing or materials within the guarantee period.

2. guarantee target and deadline: from the date of purchase

(1) The motor gear box is guaranteed to replace within a month and to repair within a year.
(2) The controller is guaranteed to change within 3 months. The electric wire connector is guaranteed within 1 year.
(3) One year repairing is guaranteed against any unshaped wheel and broken welding seam.
(4) The tires, seats and other flexible parts are not covered by the guarantee.

II) GUARANTEE IS NOT ENSURED WITH THE PROBLEMS CAUSED BY THE FOLLOWING:

(1). Did not operate according to the manual.
(2). Did not get maintenance from the specified dealers.
(3). Did not use the components or parts made by our corporation.
(4). Modified the unit or its part without authorization.
(5). The warranty has expired.
(6). Incidents caused by uncontrollable factors such as typhoon, flood, fire, earthquake or war.
(7). The warranty period is reduced to 3 months for commercial rental use.

X Buyer's Registration Form

Buyer's Registration Form

Mobility Scooter

NOTICE: DEALER SHOULD COMPLETE THIS FORM AT TIME OF SALE TO REGISTER WARRANTY.

Customer Name: _____

Address:_____

City:_____ State _____ZIP:_____

Telephone:_____ Date of Purchase:_____

Selling Dealer:_____

Dealer Address:_____

City:_____ State:_____ ZIP:_____

Dealer Phone: _____ Fax:_____

Model: J50FL-SPORTS

Serial Number: _____ Colour:_____

Type of Purchase: Consumer ☐ Rental ☐ Other ☐

_____
Customer Signature