

Powered Personal Transportation

Electric Power Board



Product Handbook

**FOR THE BLADEZ
EX 350
ELECTRIC POWER BOARD**

Model: PB-SM835

PLEASE BE SAFE WHEN RIDING . . .
ALWAYS WEAR A HELMET AND OBEY ALL LAWS!





IMPORTANT



BATTERY MAINTENANCE and CHARGING INSTRUCTIONS:

1. You **MUST** Charge your scooter completely prior to initial use.
(Follow charging instructions in your Product Handbook).
2. Charge immediately after every use.
3. Charge before storage. You must charge every 30 days if not in use.
4. Only use the charger provided.
5. **DO NOT** allow your unit to Deep Discharge.
6. For safety purposes, **DO NOT** charge for over 24 hours.
7. Turn the unit **OFF** when not in use.

**Failure to follow proper CHARGING INSTRUCTIONS will
VOID YOUR WARRANTY!**

**This PRODUCT IS NOT INTENDED FOR EXTREME or
OFF-ROAD Use! Please take care of your POWERBOARD!**

DO NOT JUMP or ABUSE THIS PRODUCT!

DO NOT RIDE IN WET CONDITIONS!

**Failure to follow these instruction and abuse will
VOID YOUR WARRANTY!**

If you have any questions, please contact Bladez customer service
(866) 325-2339 or visit us on the web at www.ebladez.com

IMPORTANT

PLEASE READ THIS BEFORE USING THIS PRODUCT

WARNING

This product does not conform to Federal Motor Vehicle Standards and is not intended for operation on public streets, roads or highways. Serious injury can result from the unsafe operations of this product. Operator can minimize these risks by using certain safety equipment such as: safety helmet, goggles, gloves, elbow and kneepads and appropriate footwear.

DO NOT operate this product in traffic, on wet, frozen oily or unpaved surfaces or under the influence of drugs and/or alcohol. Avoid uneven surfaces, potholes, surface cracks and obstacles.

DO NOT use a water hose to clean this product. See Product Handbook for more information.

This product is recommended for riders 16 YEARS OF AGE and older.

SAFETY

- This product should not be used by persons without excellent vision, balance, coordination, reflex, muscle and bone strength and good decision-making capabilities.
- This product should not be used by minors without adult supervision.
- This product should not be used by persons unwilling or unable to take responsibility for their own actions.
- The user of this product assumes ALL risks associated with its use. To minimize these RISKS, the user must wear safety helmet, goggles, gloves, elbow and knee pads and appropriate footwear.
- This product is ELECTRIC! DO NOT Ride this product in wet conditions, puddles or rainy weather.

**DO NOT TAKE YOUR
BLADEZ POWERBOARD BACK
TO THE STORE!
CONTACT US FIRST**

IF YOU HAVE ANY QUESTIONS OR NEED
ASSISTANCE,
PLEASE CALL BLADEZ, TOLL FREE AT:

(866) EBLADEZ
(866) 325-2339

MONDAY thru FRIDAY, 8am to 5pm PST
or visit us on the web at:

www.ebladez.com

NATIONWIDE NETWORK OF SERVICING DEALERS



FOR ALL YOUR POWERBOARD NEEDS

TABLE OF CONTENTS

BATTERY MAINTENANCE AND CHARGING INSTRUCTIONS.....	2
GETTING TO KNOW YOUR BLADEZ POWER BOARD.....	9
BOX CONTENTS.....	9
GETTING STARTED.....	10
FOLDING AND STORAGE.....	12
CHARGING SYSTEM.....	13
MULTI-FUNCTION LED.....	13
RECOMMENDED TOOLS.....	14
BRAKING SYSTEM.....	14
TIRES AND WHEELS.....	14
CHAIN CARE.....	15
TROUBLESHOOTING GUIDE.....	16
OTHER QUESTIONS.....	16

CHARGING PROCESS

PLEASE NOTE:

THANK YOU FOR PURCHASING A BLADEZ PRODUCT. THE FOLLOWING INSTRUCTIONS ARE TO INFORM YOU OF THE CHARGING PROCESS.

- LIGHT ON CHARGER WILL NOTIFY THE SCOOTER IS CHARGING NORMALLY.
- PLEASE FOLLOW THE CHART.

ESTIMATED CHARGING TIME	LIGHT SIGNAL
0 – 6 HOURS	SOLID RED
6 – 7 HOURS	SOLID YELLOW
7 HOURS AND ABOVE	SOLID GREEN

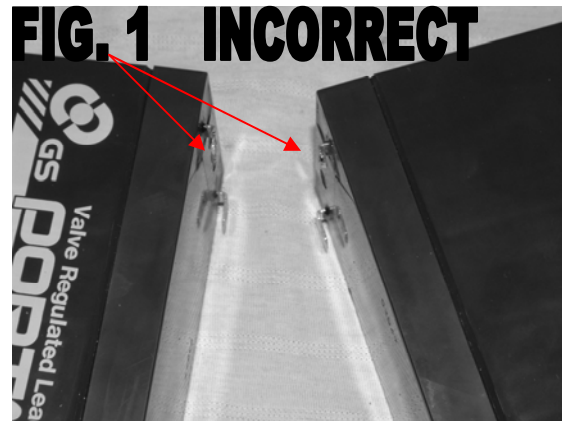
TROUBLESHOOTING SUPPLEMENT

PLEASE NOTE:

Your batteries may become disconnected during shipping. If this occurs, please follow the directions below to properly connect your batteries. Failure to follow these directions will cause your batteries to be damaged and will void your warranty.

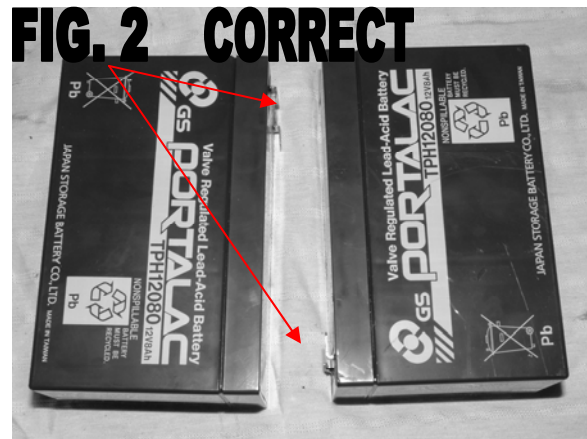
1. INCORRECT

When placing your batteries in the bag, make sure that the terminals are not touching each other. (As shown in FIG. 1) As it will cause the batteries to short out and will damage your scooter.



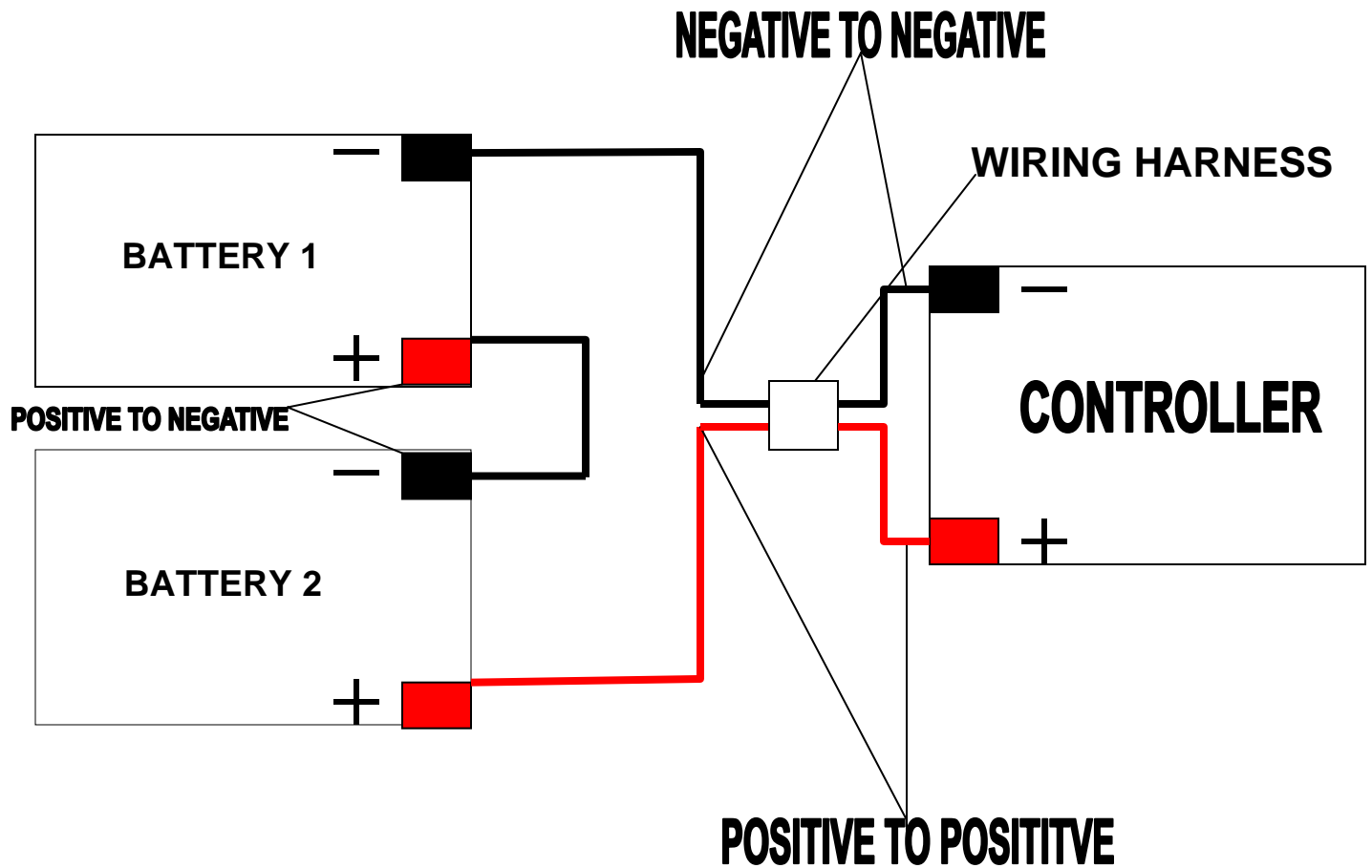
2. CORRECT

Please make sure that the batteries are placed as shown in (FIG.2). With the terminals far apart from each other.



The following diagram shows the correct way to wire your batteries to the controller. Please follow the directions and if you have any further questions, you can contact us by e-mail on our website (www.ebladez.com) or call our customer service line toll free at 1(800)EBLADEZ.

1. The controller will have two wires that will connect to the batteries. A red wire and a black wire.
2. Connect the black wire to the black terminal on battery 1.
3. Then connect the red wire to the red terminal on battery 2.
4. Then take the white wire and connect battery 1 (you may encounter a small spark when connecting the last terminal, this is normal.)



GETTING TO KNOW YOUR BLADEZ POWER BOARD



Before operating your Bladez EX 350 ELECTRIC POWERBOARD, please familiarize yourself with the following features:

- | | |
|-----------------------|---------------------------|
| 1. Accelerator Lever | 7. 350W DC Motor |
| 2. Brake Lever | 8. Rear Wheel Cover |
| 3. Folding Handle | 9. 1.8A Charger |
| 4. Kick Stand | 10. Control Panel |
| 5. Front Brakes | (with multi-function LED) |
| 6. Quick Release Deck | 11. Battery Pack |

BOX CONTENTS

Your Bladez EX 350 should come complete with:

1. Bladez **EX 350 ELECTRIC POWERBOARD**
2. AC Wall Charger
3. Allen Wrench
4. Instruction Manual and Registration Card.

GETTING STARTED

YOUR SCOOTER WILL COME CHARGED OUT OF THE BOX BUT YOU MUST CHARGE YOUR EX 350 FOR 6-8 HOURS EVEN IF THE LIGHT IS GREEN PRIOR TO FIRST USE!

Unfolding

1. To unfold your EX 350, hold the unit with one hand, while gently pulling up on the handlebars with the other.
2. Fully extend the handlebars to their upright position until you feel the mechanism lock into place.
3. You are now ready to ride your Power Board.

Before you Ride

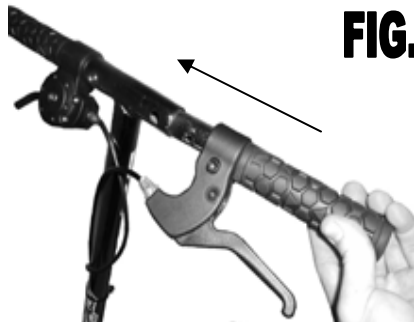


FIG. 1

1. The EX 350 is shipped with the Handlebars unattached.
2. You need to insert the accelerator and brake levers into the handlebars. To insert, remove the screws from the handle bar, then insert the right and left handle and align the holes. (Fig.1). Then insert the screws through the holes and tighten the nuts. (Fig. 2).

*Note: The Accelerator Lever (the one with the shorter lever) goes on the right, the Brake Lever goes on the left.



FIG. 2

3. Make sure all of the bolts are tightened. Also make sure to insert the bolts in the correct way with the nuts on the back side of the handlebars as in Fig. 2
4. Make sure the tires are inflated to 50 PSI as tires may lose pressure during shipping. For information on inflating tires, please refer to page 10.

* Note: It is not advisable to operate your Power Board on low tire pressure. This will negatively affect speed, handling and performance.

Quick Release Deck



FIG. 3

The EX 350 is equipped with a quick release deck to make it easier to get to the batteries and the pc board. To release the deck pull up from the rear of the deck. The deck will fold up forward towards the handle bars. (Fig. 3) To close, simply fold the deck back into place.

Batteries

FIG. 4



The EX 350 comes with two 12V-10AMP batteries. The batteries come in a pack that is located under the deck. The battery pack has one set of wires coming out of the bag.(Fig. 4) This wire is connected to the pc board. The battery pack can also be removed from the scooter and charged separately when you purchase the hot swappable battery pack which includes the charging adapter.

Charging

FIG. 5



1. The scooter comes with a 1.8A charger. (Fig. 5) To charge your scooter you must plug the adapter in to the control panel on the scooter (Fig. 5A) and plug the charger into the wall. The LED light on the charger will let you know that status of batteries while they are charging. Please refer to page 6 for further instructions. For hot swap battery charging see the instruction sheet that comes with the hot swap battery pack.

*Note: full charging takes approx. 6-8 hours from full discharge. It is recommended that you charge your Power Board after each use.

FIG 5A



2. To charge batteries externally. Purchase the hot swap battery pack from your local dealer or from us here at Bladez. www.ebladez.com or call us at 866-EBLADEZ

*It is recommended on initial charge to charge for 6-8 hours even if the light is GREEN.

Riding

1. Makes sure that all of the bolts and screws are tightened.
2. Raise the kickstand to its upright position.

3. PRESS THE ON/OFF Button once (Fig 6). The POWER INDICATOR light will blink RED and then Turn GREEN (indicating the EX 350 is ON and ready to ride).

FIG. 6



4. Put one foot on the deck of the EX 350. After pushing off with the other foot, gently squeeze the ACCELERATOR LEVER, on the right side of the handlebars. The Power Board will begin to move on its own power.

5. Your EX 350 has a variable speed throttle lever. You can control the speed of your scooter by the amount of pressure you use when depressing the throttle lever. The more you depress the throttle the faster you will go.

6. To stop, release the accelerator handle and depress the BRAKE LEVER (on the left side of the handlebars). Depressing the brake will temporarily disengage power to the motor.

7. When you feel your Power Board moving slow, sluggish or running out of power, it is time to recharge. (See charging instructions)

* Note that there is still charge in the batteries, do not ride any further and recharge your scooter so you do not damage your batteries.

FOLDING AND STORAGE

FIG. 7A



8. To fold your Power Board. Using one hand, gently pull up on the Folding Handle, while lowering the handlebars with the other (Fig. 7A).



- FIG. 7B** 9. Lock the unit into the folded position by rotating the locking hook over the folded handlebars (Fig. 7B).

When you are done riding the EX 350 you can fold it down for compact storage, carrying and transportation.

To fold down the EX 350, use one hand to pull up on the FOLDING HANDLE, while using the other to gently pull down on the handlebars. BE CAREFUL NOT TO HIT YOUR HEAD WITH THE HANDLEBAR.

* NOTE: When folding your scooter attach the hook to secure the t-bar in the down position for easy and safe transportation.

CHARGING SYSTEM

This unit comes standard with a regulated 24V charger.

* Note that it is not advisable to leave your Power Board plugged in for more than 24 hours.

To re-charge your EX 350 simply repeat the steps in the getting started section. The charger has a multi-color LED that will let you know the status of your batteries while they are charging. Follow the chart, which show what each color signifies.

VOLTS	PERCENT	COLOR
23V-26V	60%	GREEN
21V-23V	30%	AMBER
20V-21V	10%	RED
< 20V	0%	BLINK RED

Multi-Function LED

The EX 350 comes equipped with a multi function LED which will let you know the status of your batteries while riding. When the scooter is turned on and the batteries are fully charged the LED light on the scooter will be green, indicating a full charge. Once the battery voltage drops between 21V to 23V the LED will have a green and red light on at the same time. Indicating you have about 30% of your battery power left. Once the voltage drops between 20V to 21V the LED will turn red, indicating you have 0%-10% of your battery left. Once the Led light turns red it is time to recharge your scooter immediately. If the voltage drops below 20V(indicating you have 0% of your battery left) the red LED light will blink twice. Please do not try to ride your scooter as you could damage the batteries. Immediately recharge your scooter.

RECOMMENDED TOOLS

To adjust and service the Bladez EX 350 Power Board you will need the following tools:

- **Allen Keys:** 3 / 4 / 5 / 6mm.
- **Wrenches:** 10 / 13 / 16 mm Open and ring combination.
- **Philips Head Screwdriver**
- **Hand bicycle pump**
- **Oil, Grease or Lubricant (such as WD-40)**

BRAKING SYSTEM

The EX 350 uses a rear wheel drum brake system activated by a hand lever (on the left side of the handlebar). The brake is activated by squeezing the BRAKE LEVER with your left hand. The EX 350 is equipped with a controller that temporarily disengages the power to the motor when the BRAKE LEVER is depressed.

Practice braking on a smooth, dry surface to get used to the feel of the braking system. Braking distance is affected by wet conditions and loose and uneven riding surfaces.

The brakes are relatively maintenance free and come adjusted to the proper setting from the factory.

TIRES AND WHEELS

It is recommended that tires are inflated to 50 PSI. During shipping, the tires might be slightly deflated.

To Inflate the Tires



FIG 8

1. Remove the valve stem cover and expose the valve stem (Fig. 8).
2. Using a standard bicycle pump, inflate the tires to 50 PSI and replace the valve stem cover.

The Bladez EX 350 uses an identical rim and tires assembly on the front and rear wheels, which means that the tires can be rotated. The wheels are actually two wheel halves (split rim) bolted together to make it easier to remove and replace the tire. Empty all air from the tire, prior to loosening the bolts to split the rim.

Tire wear will differ based on rider weight, riding conditions and care. Replacement tires can be obtained at your local Bladez dealer, through motorcycle shops, or from the Bladez website at www.ebladez.com. The Bladez EX 350 uses a standard Kenda 7.5" (2.00 x 50) pneumatic tire.

Tire Pressure

The tire must be inflated to a maximum of **50 P.S.I.**. It is also recommended to use a tube additive like **Slime** purchasable from any motorcycle shop, to avoid inconvenient punctures.

CHAIN CARE

Proper chain care will increase the life and improve performance of your Power Board. Always keep the chain lubricated and tightened to proper tension.

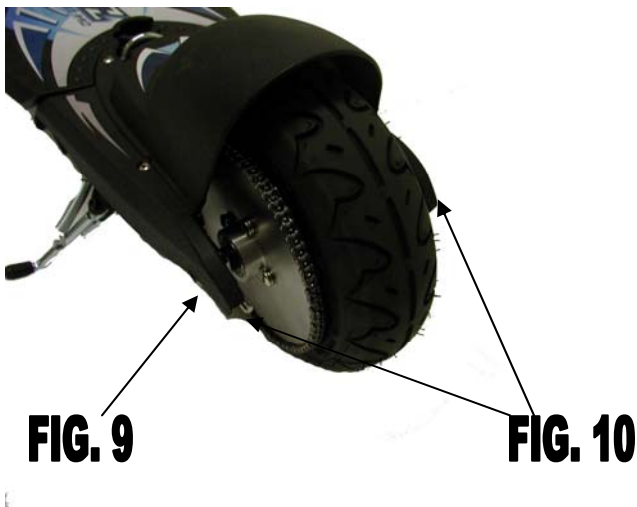
Lubrication

Always keep the chains lubricated with a good chain spray or grease (not chain wax). If the chain is allowed to run dry for a prolonged period of time it will fail, and the life of the chain is severely shortened.

Chain Adjustment

The chain on the EX 350 should be adjusted from time to time. The chain should be tight enough not to skip, but have a little bit of play. If you feel your chain skipping or make a popping noise, adjust the tension immediately.

For regular adjustments:



1. Using a 16mm wrench, loosen the axle bolts on each side of the rear wheel (Fig. 9).
2. While the axle bolts are loose, using a 10mm wrench loosen the tension bolts behind the rear wheel of the EX 350 and move the rear wheel backwards to remove the slack from the chain (fig. 10).
3. Once this is achieved the wheel nuts must then be relocked into position and wheel alignment must be checked (while turning the wheel, visually check that the clearance between the wheel and the frame parts have clearance).

*Note: Chains that are run excessively dry or loose can result in sprocket teeth being severely damaged.

TROUBLESHOOTING GUIDE

The following guide will help assist you in identifying and correction common problems with your EX 350:

Symptoms	Potential Causes:	Solutions:
The charger light turns green right away	THIS IS NOT A PROBLEM! Most EX 350 often comes charged out of the box.	Charge your scooter for an additional 6-8 hours prior to initial use.
The EX 350 does not hold the charge long enough.	The sealed Lead Acid batteries have reached the end of there life and will need to be replaced	Replace batteries. Call Bladez for Replacement Information. www.ebladez.com
My EX 350 'sputters' or accelerates very slowly	Your battery is running out of charge.	Recharge your EX 350.

NOTE: You may refer to page 13 in this manual for further information on troubleshooting using your multi-color LED light.

OTHER QUESTIONS

Where can get replacement and aftermarket parts?

From your local Servicing Dealer or over the web at:

www.ebladez.com

For additional questions, service instruction, further information and important phone numbers, please go to the Bladez website at www.ebladez.com.

If you have any additional questions, please contact Bladez Customer Service Department at (866) 325-2339

Thank you for purchasing a Bladez Power Board and please tell your friends about how much fun you had on the Bladez Power Board.



www.ebladez.com

Bladez, Corp.
20155 Ellipse
Foothill Ranch, CA
92610