

OWNER'S MANUAL



SUPERBUG

REMOTE GOLF BUGGY
PATENTED

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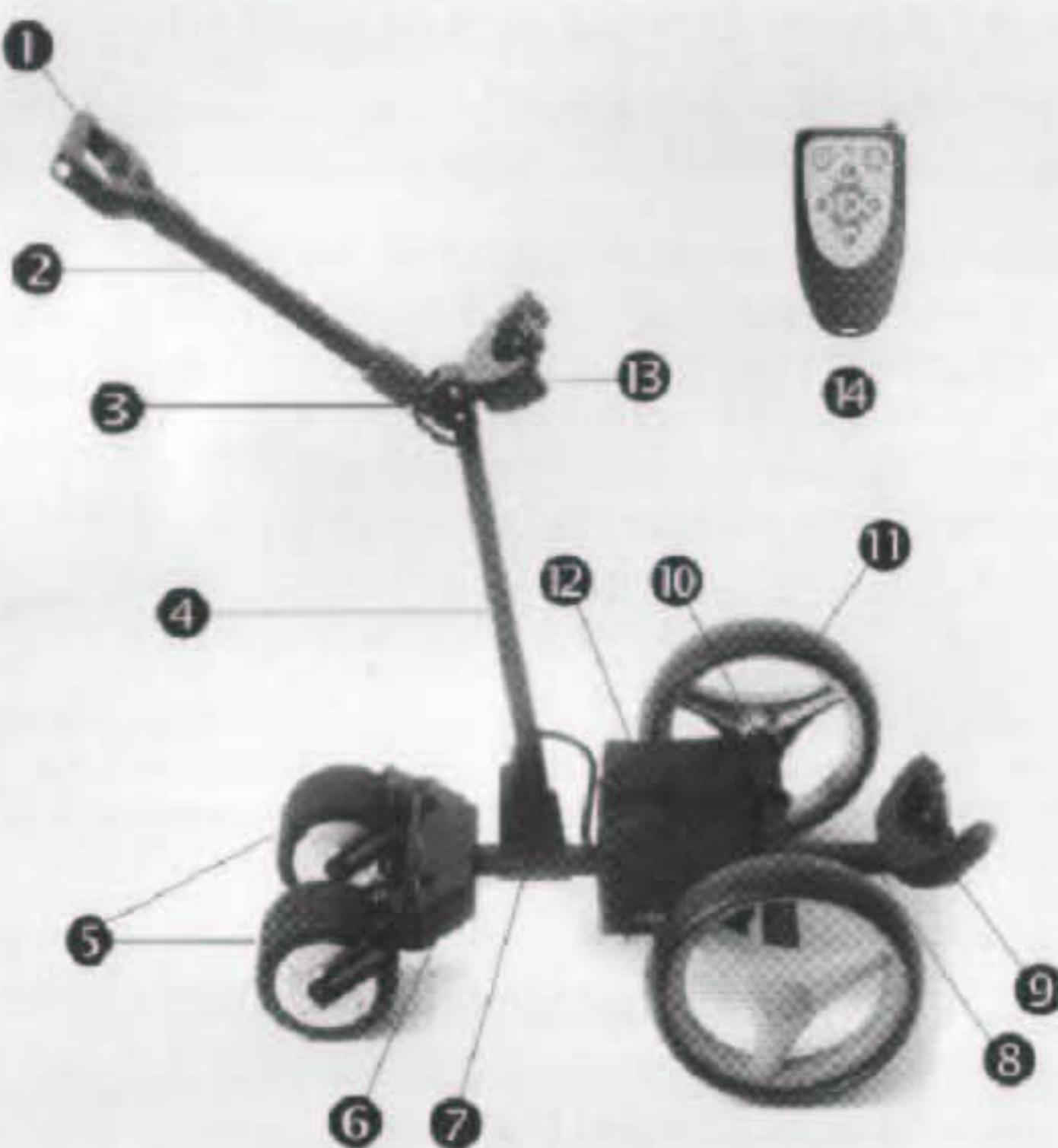


FIG 1

1. D-Handle. All player controls are mounted here.
2. Upper handle.
3. Sliding lock prevents movement and wear in the joint.
4. Lower Handle.
5. Wide driving wheel spreads the load for excellent traction.
6. Steering bearing.
7. Lower handle lock for easy carrying.
8. Battery power connector.
9. Lower bag mount with shock reducing flexibility.
10. Steel rolling bearings.
11. Large diameter wheels with a soft tyre surface.
12. Battery: Two 12 volt, 12 amp-hour. (288 watt hours)
13. Tough upper bag mount.
14. Transmitter.

SUPERBUG**SUPERBUG OWNER'S MANUAL****Introduction**

Congratulations on becoming the owner of a remote SuperBug. The remote SuperBug is the brilliant product of international team works. The light-weight, powerful SuperBug has control ability and ease of use second to none. Please take some time to read this manual carefully so you will get the most benefit from your remote SuperBug. If you have any problems or queries, please contact your retailer.

Safety notices

- ☛ Do not drop or damage the fully sealed batteries, as they contain acid which will burn the skin and could cause blindness. Never attempt to open the battery case or incinerate the battery.
- ☛ Always charge the batteries in a well-ventilated area. During normal use, the battery is effectively sealed, and practically no gases or acid escape from the case, making it very safe. But if the charger or battery malfunctions, then an explosive gas may be released.
- ☛ Keep the battery away from sparks and flames, and from dangerous chemicals.
- ☛ Always switch off the power at the mains before connecting or disconnecting the charger.
- ☛ Check every nuts and bolts if they are tightened enough before you use the SuperBug.
- ☛ Do not drop or damage the transmitter.

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- ☛ Do not put anything metal near the terminals. If there is a direct short across the terminals, there will be a risk of fire or explosion.

In operation, ensure that the buggy is under your control at all times. If it is allowed to collide with other people or property, injury or damage may occur.

Usage Tips :

Do not try to use the remote SuperBug like a conventional trolley.

You should not push down on the rear wheel to turn but rather steer the trolley in the direction you wish to go by using the handle.

In very tight spaces you can lift the handle and therefore the rear wheel and spin the remote SuperBug around on the front two wheels.

This is only possible if a golf bag is attached otherwise the handle will move forwards.

On very slippery surfaces more weight on the rear driven wheel will help with traction. This can be done by applying a little downward pressure on the handle.

Caution:

The remote Superbug is not designed to be used without a golf bag.

It is designed to be used to carry a maximum 15 kg golf bag and should not be used to carry excess weight nor to pull you along.

Neither should you pull the trolley backwards when the power is on as any of these actions may damage the controller and will invalidate the warranty.

Whilst the remote SuperBug is designed to be used in both wet and dry weather conditions it should not be left outside and exposed to the elements but should be stored in a dry place when you are not playing golf.

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The SuperBug is an electrical product and should not be hosed down after use but rather wiped clean with a damp cloth and then dried with a dry cloth.

Stalling

Do not allow the SuperBug to stall. Stalling occurs when the drive wheel is not turning but power is on. It occurs due to too much weight or too steep a hill and can also be noticed by a vibration from the wheel. If the SuperBug starts to stall immediately turn off the power at the on/off switch or push the SuperBug forwards (Never pull the SuperBug backwards under power) to ensure that the wheel turns. Do not use the SuperBug in situations where it may stall as heat buildup can cause overheating and failure of the controller circuit.

Description

The SuperBug is designed for the player to walk behind and steer by moving the D-Handle to point the buggy in the direction of travel.

The controls are on the D-Handle and are arranged for either a left handed or right handed operator. All the weight is taken on the three wheels at all times, so the player only has to operate the controls and steer. The two large-diameter, extra-wide, front wheels roll freely, while the motor drives the single steering wheel at the back.

The SuperBug is designed with another feature: Speed cruiser, means the SuperBug can adjust the speed automatically according to the different grass surface after the speed of the SuperBug is set.

The motor is contained within the rear wheel, and drives magnetically with no gears or brushes to wear out or create noise.

The SuperBug folds in just a few seconds to a tiny package to fit in very small cars or the corner of a cupboard in your home.

SUPERBUG**Controls**

When folded, the handle locks to form a convenient carry handle. The features of the buggy are shown in the photo.

The structure is an aluminium frame in the form of a cross. The longitudinal bar is called the main tube, and the bar that the big wheels attach to is the cross tube.

D-Handle Details

1. Lefthand power switch.
2. Right hand power switch.
3. Remote/manual selection button
4. Speed control roller.

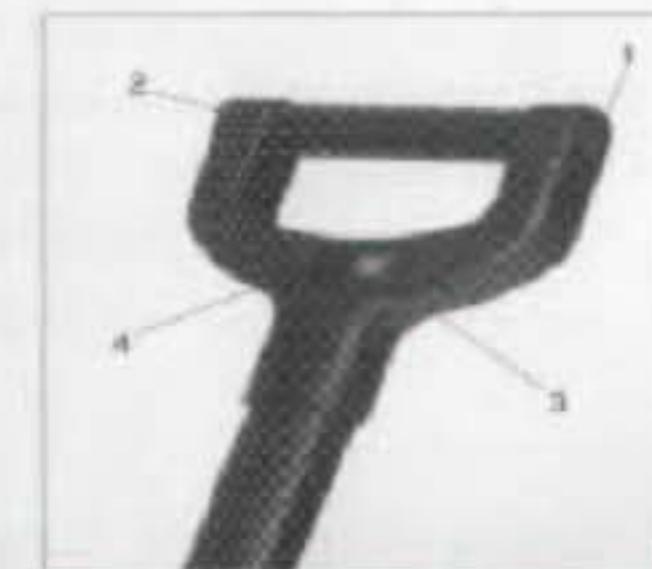


FIG 2

All the controls are located on the D-Handle (Fig 2). There are two power switches - the variable speed control and the full power button.

Power Switches

There are two power switches, one for left handed users and the other for right handed users. The switches are marked 'I' for ON, and 'O' for OFF. The SuperBug will drive when both switches are in the 'I' position. At first, turn both switches to 'O' (Fig 3).



FIG 3

If you are right handed, then turn the right hand switch to 'I' and leave it there all the time. The power is now turned on and off by operating the left hand switch with your thumb. Left handers do the opposite.

SUPERBUG**Speed Control**

The speed is set by a roller on the center of the handle. This can be set to adjust the speed from about 2 to 7 kilometers per hour. The speed will depend on the terrain as well as the speed setting. (Fig4)

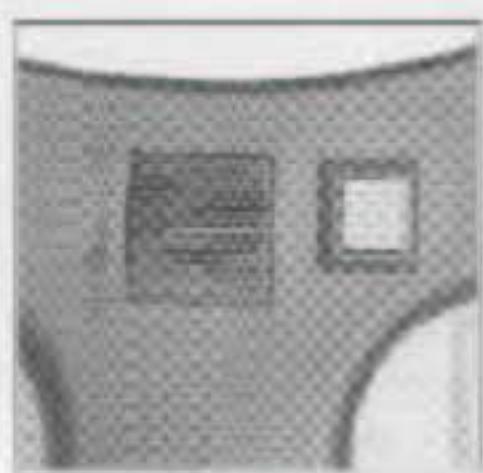


FIG 4

Remote/manual selection button

You can use this button to select Remote/Manual function, while you click on this button, the trolley would be controlled by transmitter, while you click off this button, the trolley would be used as electric trolley. This button can be used as power brake when you use SuperBug as Manual trolley, when you want to brake the SuperBug, firstly power off the power switch, then depress this button, then power on the power switch, the SuperBug would be power braked now.

Transmitter (Fig5)

① Forward running	④ Speed down
② Backward running	⑤ Turn left
③ Stop/Brake	⑥ Turn right
⑦ Speed up	

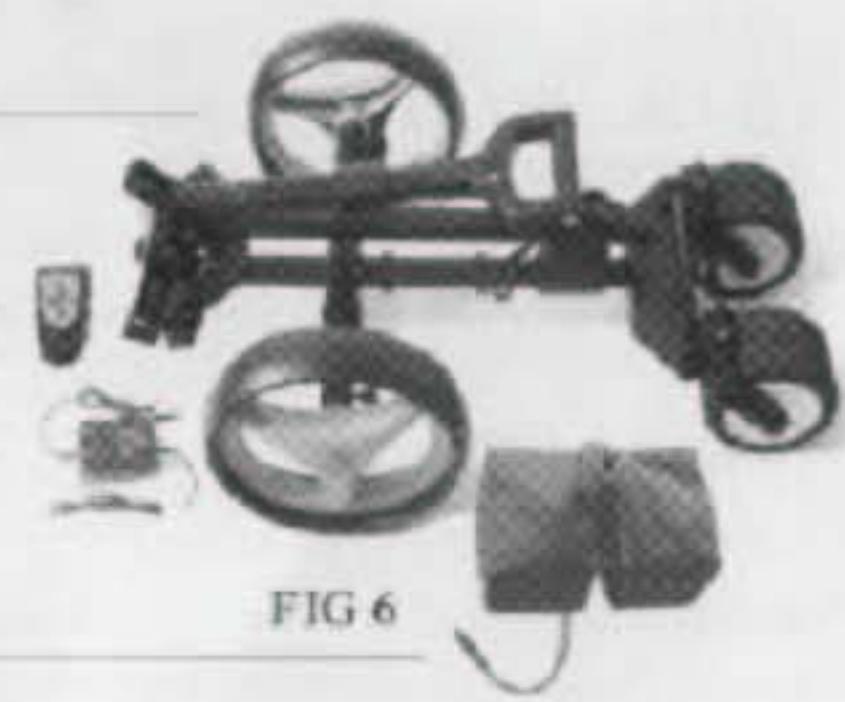


FIG 5

Unpacking your SuperBug

Open the carton and check that you have all the parts. The box will contain the following:

Two wheels with axles installed



Transmitter

Battery charger

The battery in a bag with its metal carrier

SUPERBUG**To assemble your SuperBug**

☛ Install the wheels. The axle of each wheel fits in a bearing in the ends of the cross bar and is retained by a locking device.

Push the axle into the hole, the wheel would be secured automatically, press the button properly, the wheel can be taken off easily.

☛ Unfold the handle. The lower handle locks in the folded position to make the SuperBug easy to carry. To unlock it, press the lock button beside the main pivot.

The lower and upper handle then unfold. The upper handle is locked in the open position by sliding the locking cover down over the joint. The lower handle is held in position by the weight of the bag(Fig 7).



FIG 7

☛ Install the battery. The battery is fitted in a tough nylon bag. The bag is attached to the battery carrier by the straps on the bottom. Turn the battery carrier and battery upside down and then tighten the straps that hold the battery to the carrier. Turn the assembly over. You can then carry it by the material strap(Fig 8).

Install the battery and carrier in the frame. Locate the hooks over the plastic mounts, keeping the cable on the righthand side.(Fig 9)

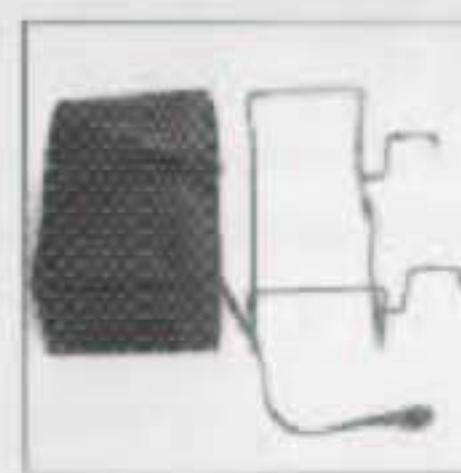


FIG 8



FIG 9

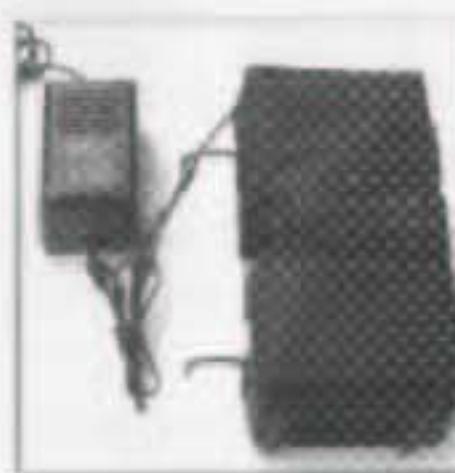


FIG 10

☛ Charge the battery before the first use. It is essential that you charge the battery for 8 hours before you first use your SuperBug. Please refer to the later section "Charging the Battery."(Fig 10)

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- ☞ Connect the battery. Before you connect the battery make sure that both the power switches on the D-Handle are in the OFF position ('O' depressed).

The main power lead is brought out of the battery bag and the plug is inserted into the socket on the right hand side of the main tube (Fig 11).



FIG 11

- ☞ Install your golf bag. Undo the straps on the top and bottom bag mounts. Sit the bag on the mounts and tighten the straps around the top and bottom of the bag (Fig 12).

The SuperBug is now ready for seriously relaxed golf.



FIG 12

To use your SuperBug (as Manual trolley)

The SuperBug incorporates a special safety feature which prevents the motor driving until you start it rolling. If the SuperBug is stationary and the power is turned on, nothing will happen until the user rolls it forward at about 1 km per hour.

- ☞ Turn the speed control roller to Minimum, towards you.
- ☞ Push both of the power switches to ON, 'T'.
- ☞ Press off **remote/manual** selection button.
- ☞ Turn the speed control roller up about 1/3rd of a turn.

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- ☞ Simply push the SuperBug until the motor begins to drive (usually 1/4 to 1/2 metre) and then set the speed to your desired walking pace.

- ☞ You may wish to adjust the speed, depending on the terrain or the conditions.

- ☞ To stop the SuperBug, simply push one of the power switches to 'OFF'. When you wish to continue, just push the switch back to 'ON', push the buggy forward, and it will resume at the same speed at which you were last walking.

Tips: Make sure that you have your thumb ready on the ON and OFF button when you push your caddy forward during manual control, in case of emergency stop. (DO NOT press the remote/manual button during manual control, it will cause sudden acceleration).

To use your SuperBug (as Remote trolley)

- ☞ Push both of the power switches to ON, 'T'.
- ☞ Click on the **remote/manual** selection button.
- ☞ The SuperBug now is ready to be controlled by the transmitter, please refer to the transmitter section.

Care of the batteries

The batteries are a valuable part of your investment, and must be looked after correctly. Read the Safety Notice at the start of this manual.

The batteries should never be run flat. The standard batteries are adequate for 27 holes providing they are played on the same day.

Very hilly terrain and low temperatures can affect battery performance. 27 holes are based on normal conditions.

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The batteries must be charged as soon as possible after they have been used. Even if they are only used for a few holes, they must be recharged immediately. For best battery life, we recommend leaving the batteries charging whenever the buggy is not in use.

Only use the approved charger that is supplied with the buggy.

The use of ANY other charger may damage the batteries and the charger, and will void the Warranty.

Charging the battery.

- ☛ Turn off the charger at the power point.
- ☛ Connect the charger to the batteries.
- ☛ Turn on the mains power at the power point.

The charger has two lights which monitor the charging process.

RED - The mains power is turned on and the batteries are charging rapidly.

GREEN - The batteries are in the last charging phase. This final charge stage of the process is very important to battery life and must be allowed to complete. Within 1-2hrs after this charging stage, the batteries are fully charged and being maintained at peak charge by the charger. Once fully charged, it is desirable to leave the charger connected and switched on until your next game.

Charging Time

After 27 holes of golf, the battery will be fully recharged in about 8 hrs.

NOTE: If the charger is switched off, be sure to also disconnect the batteries. If the batteries are not used for long periods of time, charge them fully, then disconnect them from the charger and store them in a cool place. When they are stored like this, be sure to recharge them for 24 hours, at least once every two months.

The charger provided with your SuperBug will go from red

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(charging) to Green (trickle charge) after a maximum of 8 hours. If your charger remains on red for a longer period please disconnect the charger. If this problem persists and on further charges the same problem occurs please contact your service department.

There is one over current protection fuse inside the battery bag, please make sure the fuse is OK before you use the remote SuperBug.

SuperBug technical description

Frame:	High strength aluminium.
Motor:	24 volt high torque, direct drive brush-less motor.
Weight:	23.5 Kg. (Include battery)
Folded size wheels on:	Length: 83 cm, Width: 59 cm, Height: 28 cm.
Folded size wheels off:	Length: 83 cm, Width: 45.5 cm, Height: 22.5 cm.
Carrying ability:	15 Kg.
Climbing ability:	15 Degree
Range:	27 holes.
Battery:	Two 12 volt 12 AH sealed lead acid batteries.
Battery Charger:	Three stage automatic 2A output.
Remote distance:	100 yards

Trouble shooting

We believe your SuperBug is the most reliable golf buggy available. It has no gears to wear, no brushes to wear, and a very reliable battery. All pivots have been designed to eliminate wear. The following will guide you if you have any problem:

Symptom	Cause	Remedy
The Superbug works for a while but slows and then stops before you complete your round	Battery not holding the full charge.	The battery may be old or the charger may be faulty. DO NOT TRY ANOTHER CHARGER unless it is a SuperBug charger. Return the battery and charger to the retailer for testing.
SuperBug won't go.	Check that the battery is connected.	Check the battery connector, switch and speed control setting.
SuperBug won't go.	Battery is completely flat or there is a wiring or component problem	Don't connect it to your charger. Return it to your retailer.
SuperBug can't be controlled by the transmitter, or the remote distance is less	The battery inside the transmitter is flat or there is a wiring or component problem	Change the battery, if still not ok, return it to your retailer.

SUPERBUG**Warranty**

Each SuperBug has been carefully inspected and tested prior to dispatch. Accordingly, the buggy and charger are guaranteed against failure due to defective materials & workmanship, under normal usage, for one (1) year from date of purchase. The obligation under this warranty shall be limited to the repair or replacement of any buggy or component returned within the warranty period, which, upon examination, proves to have been defective.

This warranty excludes any claim for consequential damages or loss, however caused.

Replacement may be with new or reconditioned components at the discretion of the repairer.

This guarantee is made on a Return-to-Supplier basis. Freight, postage or transport costs are not included.

This warranty is applicable only to the initial purchaser, and is not transferable.

Original proof of purchase is required.

The battery is warranted for one (1) year, from the date of purchase, against faulty workmanship or material. If the battery is damaged due to excessive discharging or due to leaving it in a discharged state this warranty is void. If the warranty claim on a battery is not allowed, then the customer will be charged for testing and return freight.

Any buggy or component which has been abused, misused, altered, or attempted to be repaired by other than an authorised agent, or any battery which has not been used and maintained according to these instructions, is specifically excluded from this warranty.

SUPERBUG**IF YOU NEED TO CALL CUSTOMER SERVICE**

Please complete the following information for future reference:

model number: **SUPERBUG (Remote)**

serial number: *

date of purchase:

place of purchase:

* the serial number is on the back of the upper bag mount. Please retain the serial number carefully, or the warranty of your SuperBug will be invalid. Retain this owner's manual with your sales receipt as a permanent record of your purchase, in the event of a theft, fire or warranty service.

Product specifications may change due to product improvements.

Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifications not expressly approved by this company could void the user's authority to operate the equipment.