

Weihai Wavefun Outdoor Co., Limited



I able of	Contents
 Introduction Manufacturer Type	 6. Preparation for Transportation, including Deflation, Lifting the boat out of the water and Disassembly 7. Storage 8. Cleaning 9. High Altitude Use 10. Maintenance 11. Repair procedure 12. Warranty Conditions 13. Declaration Of Conformity- CE 14. Owner Registration Form Must be returned within 14 days of purchase/receipt of boat

This manual has been compiled to help you operate your craft with safety and pleasure.

This manual contains details about the boat; the equipment supplied and fitted its systems and information on its operation and maintenance.

Please read this manual carefully, and familiarize yourself with the craft before using it.

If this is your first craft, or you are using a type of craft you are not familiar with, for your own comfort and safety, please ensure you obtain handling and operating experience before assuming command of the craft. Boat handling courses are available. These courses will familiarize you with boat handling, mooring, anchoring, bridges, tunnels, locks and other safety considerations.

PLEASE KEEP THIS MANUAL IN A SECURE PLACE HAND THIS MANUAL OVER TO THE NEW OWNER WHEN YOU SELL THE CRAFT

Warnings and cautions have been defined and emphasized in bold type throughout the manual. For your own safety, and for the safety of your passengers and other waterways users, you are advised to read this manual carefully and to familiarize yourself with the warnings and cautions. The following definitions are given:

DANGER- Denotes an extreme intrinsic hazard exists which would result in high probability of death or irreparable injury if proper precautions are not taken.

WARNING- Denotes a hazard exists which can result in injury or death if proper precautions are not taken.

CAUTION- Denotes a reminder of safety practices or directs attention to unsafe practices which could result in personal injury or damage to the craft or its components.

Where options for equipment exist, the options have been highlighted by means of a box. Reference may be made within this Owner's Manual to equipment and fittings which may not be installed in your boat – the General Specification gives exact details of the equipment and systems installed on your boat.

A Declaration of Conformity is attached to this manual. The Declaration of Conformity confirms that the craft has been designed and constructed to satisfy the essential requirements of the Recreational Craft Regulations 2013/53/EU – The Recreational Craft Regulations. The Declaration of Conformity must remain with this manual.

1.1 Manufacturer

This boat is distributed by:

1.2 Type

This is an inflatable boat that gets its form, rigidity and buoyancy by means of inflation with pressurized air.

1.3 Category

Models for use in Design Category C:

Design category C is applicable to recreational craft intended for use in coastal waters, large bays, estuaries, lakes and rivers where conditions up to, and including, wind force 6 (Beaufort scale) and a significant wave height of up to, and including, 2,0 metres may be experienced.

Models for use in Design Category D:

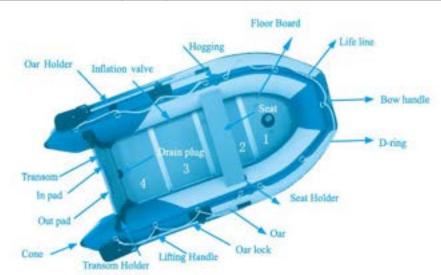
Designed for use on inland waterways networks, non-tidal rivers and tidal rivers under favourable conditions with a wind force of up to, and including 4 (Beaufort scale) and a significant wave height of up to, and including, 0,5 meters (H1/3).

CAUTION Under suitable conditions of wind and tide, tidal rivers can be navigated with due caution. Local specialized navigation information and weather conditions should be taken into consideration before embarking on a cruise incorporating tidal rivers or fast rivers.

CAUTION Before embarking onto a particular canal or river, check the limitations of navigation with respect to maximum length, maximum beam, and minimum draft.

2. DESCRIPTION AND PARTICULARS OF THE BOAT

2.1 General layout and names of component parts



Model	Max. Engine Power KW/HP	Max. Persons	Max. Load (kg)	Boat Weight (kg)	Overall Length (cm)	Beam (cm)	Tube Dia (cm)	Number Of Chambers
MB-180	2/2.5	2	210	20	180	139	37	2+1
MB-200	2.5/3.5	2	250	28	200	139	37	2+1
MB-230	3/4	3	300	33	230	139	37	3+1
MB-250	4/5	3	350	37	250	139	37	3+1
MB-270 MB-300 MB-330	8/10 11/15 15/20	3+1 4 4+1	400 520 590	40 44 48	270 300 330	155 155 155	42 42 42	3+1 3+1 3+1
MB-360 MB-390	15/20 19/25	6 7	710	58 66	360 390	173 173	46	3+1 3+1
MB-420	22/30	8	1087	88	420	192	51	4+1
MB-470	37/50	9	1119	105	470	192	51	5+1

2.3 Standard accessories and options									
Kit	Repair Kit	Carry Bag(S)	Oars / Paddles	Pumps	Air Deck	Aluminium Deck	Painter	Thwart(s)	Inflatable Keel
Model		Ő							<u>I</u>
MB-180	1	1	2	1	1	1	1	1	1
MB-200	1	1	2	1	1	1	1	1	1
MB-230	1	1	2	1	1	1	1	1	1
MB-250	1	1	2	1	1	1	1	1	1
MB-270	1	1	2	1	1	1	1	1	1
MB-300	1	1	2	1	1	1	1	1	1
MB-330	1	1	2	1	1	1	1	2	1
MB-360	1	1	2	1	1	1	1	2	1
MB-390	1	1	2	1	1	1	1	2	1
MB-420	1	2	2	1	1	1	1	2	1
MB-470	1	2	2	1	1	1	1	2	1

* Repair kit includes fabric and tube of glue in canister. # These parts are subject to change without notice to improve quality.

3. ENVIRONMENT- PROTECT IT!

3.1 Discharge of pollutants

Prevent pollutants from entering the water around your boat. Using the water for water sports also means taking care of a clean water sports environment.

3.2 Advisable speeds

When running, be cautious of high speed because it may:

- Be dangerous to yourself or anyone or anything in the water.
- Cause considerable wash behind the boat.
- Cause unnecessary noise to fellow water users.

4. COMMISSIONING

4.1 Assembly and Inflation

CAUTION- DO NOT use a compressed air source (i.e. automotive tyre air compressor) to inflate boats. Over inflation through use of compressed air may result in ruptured seams and/or bulkheads. Proper inflation and deflation is essential to the long life of your boat.

CAUTION - Ensure exact sequence of assembly and inflation is followed or warranty may be invalidated

- 1. Remove any sharp objects from flat surface where boat will be assembled.
- 2. Unfold and spread boat out flat.
- 3. Open up the valve cap. Verify the valve core is in the up and closed position.

To Open/ Close valve: Depress valve core and rotate 90 degrees.

- 4. Attach Stirrup/ Hand pump to each valve and partially inflate each chamber to 50% to spread out the boat. Next, if included with this model, attend to the floor, either the air floor or sectioned floor, sections 4.2 or 4.3.
- 5. If using the boat for the first time, fully inflate boat by attaching pump to each of the valves, one at a time, and pump air to maintain a balance of pressure between chambers until fully filled. When the boat is fully inflated, push and open valve core and allow approximately ½ the air to escape. Close valve core and continue with assembly. If the boat has been folded and stored for longer periods there may be some creasing of the fabric evident. Inflate all chambers to full pressure and leave in a warm atmosphere for a few hours. The use of a warm air blower can assist with this procedure.
- 6. An Inflatable boat should not lose more than 20% of the pressure over a 24 hour period. If there is a greater pressure loss the valve installation must be checked using the valve key. Both the Inflation and pressure relief valves are serviced using the same key. Also the chamber seams inspected with a soap solution. If necessary please contact your supplying dealer for after sales support.
- 7. Some models are supplied with a pair of eyebolts. These are for towing or lifting and can be mounted either inside or outside the transom as required. A 10mm drill and silicon seal required to effect this.

4.2 Inflatable Deck

With the boat partially inflated insert the floor and tuck around the joint between tubes and hull skin ensuring the valve for the keel is accessible through the aperture in the floor. For all airmat floor models fully inflate the airmat floor to 0.7 bar. For all low pressure floor models fully inflate the deck/hull to 0.4 bar. Next fully inflate the bow chamber followed by the side chambers to 0.25 bar, working the tubes of the boat and the floor around together slightly to allow the floor to seat properly. Finally, for infalte the keel to 0.4 bar.

NB. Do not inflate keel until floor is installed and fully inflated.

4.3 Sectioned Floor

- 1. First of all, the boat should be inflated about 30-40 % and then open the valves to allow complete deflation.
- 2. Set the Bow Section and the Transom floorboard first with the numbers facing up.
- 3. Then set No.2 and No.3 and No. 4 floorboards.
- 4. Make sure all floorboards are well seated in the correct position aligning the joints together firmly.
- If the floorboards will not position easily, fully inflate the boat without floorboards and leave it inflated for 10 minutes. Then deflate the boat for easier installation.



4.4 How to set Aluminium Stringer

After setting floorboards, insert the aluminium stringers into the sides of floors with the concave side facing the chamber. Then fully inflate the boat to 0.25 bar, working the tubes of the boat and the floor around together slightly to allow the floor to seat correctly. Finally, fully inflate the keel to 0.4 bar.

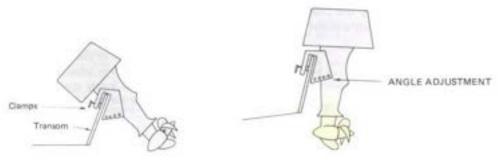
In order to insert aluminium stringers more easily, put an oar blade under the fabric floor to span the
joints of each adjacent floor section to ensure they are flat.

4.5 Outboard Bracket

Some models are supplied with a separate outboard bracket. Install this after the boat is completely inflated. Install with the horizontal pegs first and then the vertical pegs. Align these by applying moderate force to the bracket.

4.6 Outboard Motors

- 1. Selecting the optimum outboard motor is essential to the performance and reliability of your boat. The boat transom is manufactured to the industry standard but all outboard dimensions vary, therefore it maybe necessary to adjust the engine height with a spacer and the trim angle to achieve optimum performance.
- 2. MOUNTING MOTOR
 - Unlock motor for tilting and mount the motor as shown below.
 - The motor should be in the centre of the transom.
 - Secure the clamps and make sure they are thoroughly tightened.



- 3. STARTING THE MOTOR (Gear must be in neutral)
 - Pull your boat into the water and lock the motor.
 - Make sure that it is in neutral and that there is nobody in the water near the boat.

5. OPERATION INFORMATION

5.1 General Information

All the rules of boating apply to users of inflatable's as to any other boat.

This boat is not equipped with lights and should be used only during daylight unless auxiliary navigational lights are installed.

This boat should not be operated while under the influence of drugs or alcohol.

Accidents on water can happen unexpectedly. For your safety, a buoyancy aid or life jacket should be worn at all times.

Be sure to check national and local boating information such as tide tables and charts, and also safety regulations before using your boat.

WARNING - BEWARE OF OFFSHORE WINDS AND CURRENTS.

5.2 Loading

WARNING - SINGLE OPERATION. When operating under power without passengers, weight should be as far forward as practical. Rapid acceleration should be avoided to prevent the possibility of backward flipovers.

- 1. Do not exceed the crew and weight capacity stated on the boat's identification plate.
- Each person in the boat should wear a life jacket/ personal flotation device.
 Oars or paddles, and a repair parts kit should be carried for emergencies.
- 4. All loads placed in the boat should be distributed uniformly to provide proper boat trim when under way.

5.3 Operation : Power

WARNING - DO NOT OVERPOWER! Overpowering can result in severe handling and/or stability problems and will invalidate the warranty.

WARNING – USE A LANYARD SWITCH (kill cord). This switch will stop the engine if, for any reason, the operator leaves the controls.

CAUTION Split oils & grease can be extremely slippery and will damage your boat. Always clean up spillage and keep the engine area clear.

CAUTION When the engine covers are removed, there is a danger from moving and rotating parts both on the engine and propulsion shaft. The engine should be stopped and if fitted the engine start battery isolated before removing cover boards or gaining access to the engine compartment.

NEVER Leave the craft unattended with the 12 volt electrical system energized.

ALWAYS Disconnect and remove the batteries, engine and fuel when the craft is in winter storage or long-term storage.

CAUTION The battery electrolyte is a dilute solution of sulphuric acid. This acid is dangerous and can cause burns when in contact with skin and clothing. Always use suitable protective clothing and face or eye protection when checking electrolyte levels or topping up the batteries.

5.4 Warning when operating

The following is important when operating the boat:

- 1. Running and turning it is important to plan the sitting positions to distribute weight evenly. When the boat is bow-up before running on the plane it is effective to keep the bow down by persons moving towards the bow. Once on the plane it is essential to adjust the weight distribution to maintain an even attitude of the boat. If there is too much forward weight the bow can dive or if there is too much weight to the rear this is a risk of overturn if the is a head wind for example. When you are turning your boat you must reduce speed. When turning the boat it will tilt considerably towards the turning centre, again even weight distribution is required to keep the boat on an even keel. All passengers must hold the life line securely.
- 2. Be careful of shallow water or underwater obstructions which may damage the fabric and seams. The boat is designed with more than two air chambers, so if one of the air chambers is punctured, the boat will still retain at least 50% buoyancy.
- 3. Refrain from smoking when you are on the boat or refueling the engine.
- 4. With remote fuel tanks always refuel tanks away from the boat.
- 5. Never go near swimmers with the engine running, as there is a risk of serious injury from collision or contact with the propeller.

6. Avoid exposing the boat to the sun for extended periods. Exposure to ultra-violet light and heat will cause the fabric deteriorate. The increase in pressure caused by heat may damage the fabric, seams and fittings. This is not covered under warranty.

5.5 Towing – Anchoring – Mooring

- If the boat is towed by another boat, the inflatable MUST BE EMPTY. The towing line should be secured to the "D" rings on each side of the boat. The towed boat must be observed continuously.
- 2. ANCHORING and MOORING lines should be secured to the bow "D" rings.

5.6 Air Chamber Failure

Should an air chamber fail, shift the weight to the opposite side. Secure the leaking chamber as necessary (by tying-up or holding-up) and immediately proceed to the nearest shore.

5.7 Water Hazards

1. Wrecks, reefs, rocky shores, sand bars, and shallows should be avoided or approached with caution. When boating in unfamiliar waters, obtain information on local water hazards before launching.

5.8 Beaching

- 1. It is recommended that the boat is not powered onto the beach, dragged across rocks, sand, gravel or pavements as damage to the fabric may result.
- 2. Do not allow water to accumulate in boat as damage to the floorboards and transom board is possible.
- 3. Cover the boat to block direct sunlight exposure and higher ambient temperatures if the boat is to be stored outside for an extended period of time.

6. PREPARATION FOR TRANSPORTATION INCLUDING DEFLATION

- 1. When lifting the boat out of the water ensure there are no sharp objects, rocks etc. Use lifting handles.
- 2. All fabric surfaces can be cleaned with soap and water
- 3. To deflate, open valves to expel the air out of each chamber.
- 4. Remove seat/s and oars or paddles
- 5. Remove side joiners from floor boards.
- 6. Raise one of the middle floor boards and detach from "H" joints. Remove floor boards.
- 7. Remove bow and transom boards last.
- 8. Place floor boards, side joiners and oars in carrying bag.
- 9. With bottom side facing down, flatten the side tubes vertically, fold the tubes into the centre. Fold the cones across the transom and roll transom towards the bow, the air will expel with this action, kneeling on the roll as you go. Place in carrying bag along with the accessories.

CAUTION – DO NOT use a vinyl preservative on fabric surfaces.

7. STORAGE

Before packing allow your boat to dry thoroughly. Deflate the boat of air completely and roll the boat up loosely, not tightly as this may damage the seams. If the boat must remain inflated store your boat in a cool, flat and dry place with 50% air in the chambers. Do not leave the boat exposed for extended periods in warmer climates as any damage to fabric, seams and fittings will not be covered under warranty. CAUTION – Boat should be clean and dry before rolling up for storage. Remove any sand and debris that may cling to the fabric.

8. CLEANING

The surface of the boat should be cleaned with a solution of mild soap and fresh water or specialist Inflatable boat cleaner after each use. To avoid abrasion and wear, be sure that all sand, small rocks, oil and dirt have been flushed away from the boat surfaces, and particularly the inside floor next to the tubes. Ensure all components are dry for packing and storage.

9. HIGH ALTITUDE USE

Normal full inflation pressure of the main tubes is 3.6 PSI or 250 mbar (25 kPa). If boat is inflated at sea level (low altitude) and transported to high altitude (i.e. for use in a mountain lake) the air pressure must be reduced at the higher altitude to prevent over inflation.

10. MAINTENANCE

Hourly/Periodic monitoring and management of chamber pressures is essential. Ambient Temperatures can fluctuate more than 20 degrees throughout the day. Due to expansion of the pressurized air, seams and components can suffer irrepairable damage.

Periodic inspection of all components is essential and report any defects in good time. Checking tightness of Inflation and pressure relief valves when first inflated and periodically. The valve tool is in the repair kit.

11. REPAIR PROCEDURE

- SMALL TEARS, CUTS AND PUNCTURE
- Use the supplied repair kit for small punctures. Clean the fabric around the area to be repaired using MEK or acetone then re-clean as before. Apply a coat of glue to the damaged area and to the patch material, allowing to dry for a few minutes depending on temperature. Repeat the process allow time to become "tacky", immediately fix the patch and press together firmly. All repairs should be allowed to cure for at least 24 hours before re-inflating the boat.
- LARGE REPAIRS OF SKIN, SEAMS, BULKHEADS AND TRANSOM The boat should be returned to the selling dealer for any large repairs.

12. LIMITED WARRANTY

- 1. We warranty each new EXCEL INFLATABLE BOAT hereafter referred to as "Product/s" manufactured by us, to be free from defects in material and workmanship as below.
- 2. Registration shall become effective only upon receipt by Meridian Developments International Ltd of the completed Owner Warranty Registration Card at the rear of this Manual, which shall identify the Product so registered by the HIN (Hull Identification Number).
- 3. This warranty is as follows:
 - 3.1- For recreational useunder normal conditions during such period, and one (1) year on fixtures and fittings from date of manufacture.
 - 3.2- For commercial use- A one (1) year guarantee on the base fabric and the seams when used under normal conditions during such period, and one (1) year on fixtures and fittings from the date of manufacture.
- 4. This warranty does not apply to normal wear and tear or to wood finishes and other materials or to damage caused by:
 - Neglect, lack of maintenance, accident, abnormal operation.
 - Inadequate protection from sun light and higher ambient temperatures.
 - Racing, competition or commercial use.
 - Use of an accessory or part not manufactured or sold by Meridian Developments International Ltd.
 - Use of after market equipment / accessories, manufactured or sold by Meridian Developments International Ltd, but not fitted in accordance with manufacturer's guidance.

- 5. This warranty does not apply to: Haul-out, launching, storage charge, shipping costs, travel, telephone or rental charges of any type, inconvenience, or loss of time and income.
- 6. Claims shall be made under this warranty by delivering the Product for inspection to the selling dealer. If there is no local dealer then to return to Meridian Developments International Ltd who will then inspect and report and perform the repairs provided such service is covered under this warranty. The Purchaser shall pay for all related transportation charges. If the service is not covered by this warranty, purchaser shall pay for all related labour and material and any other expenses associated with that service. Any Product or parts shipped by purchaser for inspection or repair must be shipped with transportation charges prepaid.
- 7. The Owner Registration Card is the only valid registration identification and must be on file with Meridian Developments International Ltd at the time the warranty service is required.
- 8. Our obligation under this warranty shall be limited to repairing the defective part or at our option replacing such part or parts as shall be necessary to remedy any malfunction resulting from defects in material or workmanship as covered by this warranty. We reserve the right to improve or change the design of any Product without assuming any obligation to modify any Product previously manufactured.
- 9. All incidental and consequential damages are excluded from this warranty. Implied warranties are limited to the life of this warranty.
- 10. The legal rights provided by this warranty are in addition to your statutory rights, which may vary from country to country.
- 11. Sale is subject to our Terms & Conditions of business. Copies available on request.

Wavefun Inflatable Boats Owners manual 13: DECLARATION OF CONFORMITY: CE

Craft ModelDescriptionInflatable BoatManufacturerWeihai Wavefun Outdoor Co. Ltd.AddressYangting, Weihai, China 264204Date of commissioning______

WaterCraft Identification Number

DE-WFO_____

Inspection Module

A1- Production Control

Declaration of model	Design category	Model	Max. Engine Power KW/HP	Max. Persons	Max. Persons	Max. Load Capacity (kg)	Boat Weight (kg)	Overall Length (cm)	Overall Beam (cm)	Tube Diameter (cm)
	D	MB-180	2/2.5	2	1	180	18	160	133	35
	D	MB-200	2.5/3.5	2	2	210	20	180	133	35
	D	MB-230	3/4	3	2	230	15	200	131	35
	D	MB-250	4/5	3	2	250	22	200	138	37
	С	MB-270	8/10	3+1	2	400	28	230	138	37
	С	MB-300	11/15	4	3	450	30	235	148	42
	С	MB-330	15/20	4+1	3	400	19	260	144	39
	С	MB-360	15/20	6	4	580	40	290	160	42
	С	MB-390	19/25	7	4	490	23	290	144	39
	С	MB-420	22/30	8	6	730	58	365	180	45
	С	MB-470	37/50	9	6	730	70	365	180	45

I declare on behalf of the manufacturer that the recreational craft referred to above fulfils the requirements (either in full or in part – refer to the Technical File maintained by Meridian Developments Ltd for the scope of application) specified in Part 2, Regulation 6 and Schedule I of the Recreational Craft Regulations 2017 as amended.

Notified Body for Design and Construction Assessment: DNV GL SE, no. 0098, Hamburg Dated- 07-09-2017.

Lin Lesong is authorised to sign this Declaration of Conformity on behalf of Meridian Developments International Ltd.

Signed:

S

Date: 01/ 11/ 2018

Design Category

C: **INSHORE WATERS**: Designed for use in coastal waters, large bays, estuaries, lakes and rivers where conditions up to, and including, wind force 6 and significant wave heights up to, and including, 2 metres may be experienced.

D: SHELTERED WATERS Designed for use on inland waterways networks, non-tidal rivers and tidal rivers under favourable conditions with a wind force of up to, and including 4 (Beaufort scale) and a significant wave height of up to, and including, 0,5 metres (H1/3).

ER	Description	Standard	
1	Boat Design Category	С	X
2	General Requirements	BS EN ISO 8666:2018	
2.1	Craft Identification Number	BS EN ISO 10087:2006	X
2.2	Builders Plate	BS EN ISO 14945:2004	X
2.3	Protection from falling overboard	BS EN ISO 6185-3-2018	x
2.4	Visibility from the helm	BS EN ISO 11591:2011	X
2.5	Owners manual	BS EN ISO 10240:2004+A1:2015	X
3	Inte	grity and Structural Requirements	
3.1	Structure	BS EN ISO 6185-3	X
3.2	Stability and Freeboard	BS EN ISO 6185-3:2018	X
3.3	Buoyancy and Flotation	BS EN ISO 6185-3:2018	X
3.4	Openings in hull, deck and	EN BS ISO 9093-1:2018	x
3.4	superstructure	EN BS ISO 9093-2:2018	^
3.5	Flooding	EN BS ISO6185-3:2018	X
3.6	Maximum recommended	EN BS ISO6185-3:2018	X
5.0	load		
3.7	Liferaft storage	Not Applicable	
3.8	Escape	Not Applicable	
3.9	Anchoring, Mooring, Towing	EN BS ISO6185-3:2018	X
4	Handling Characteristics	EN BS ISO 11592-1:2016	X
5		Installation Requirements	
5.1	Engines and engine spaces		
5.1.2	Ventilation	EN BS ISO 11105:2017	X
5.1.4	Outboard Engine Starting	EN BS ISO 11547:2018	X
5.1.6	Tiller controlled outboard	Emergency Stopping Device provided	X
5.2	Fuel system	Outboard with less than 27 litre capacity	
5.4	Steering system		
5.4.1	General	Tiller Control. No applicable standard	
5.4.2	Emergency Arrangements	N/A- (RCD Annex 1 ER 5.4.2)	
5.6	Fire protection	EN ISO 9094:2017	X
	Annex I.B- Exhaust Emissions	2003/44/EC (94/25/EC as amended) (RCD)	X
	Annex I.C- Noise Emissions	Engine Manufacturer's Declaration	X

WAVEFUN MODEL NAMES:

AM-airmat floor without under keel KIB – airmat floor under keel IB-low pressure floor AL- aluminum floor PL - plywood floor

14: OWNERS REGISTRATION INFORMATION

To be completed and returned to dealer/ distributor within 14 days of purchase/ receipt of

Wavefun Inflatable Boats Owners manual **boat. A scanned copy or photo image via email is acceptable**

Registration	Date, the W.I.N./ C.I		of Conformity: Boat Model, ixed on the outside of transom. Plate fixed on the inside of the
Name			
Address			
Signed		Print	Date
Boat Model			
Date of Purch	ase		
WaterCraft Ide	entification Number	(WI.N./ C.I.N.)	
Purchased fro	om		
Address			
Amount paid	\$/€		
Date Registra	tion Form Posted		

I confirm I have read the Owner's Manual and understand and accept the contents

N.B. Any problems or damage must be notified with 24 hours of receipt.

Sale is subject to our Terms & Conditions of Business. Copies available on request.

WEIHAI WAVEFUN OUTDOOR CO., LTD.
Fyrone Tian/Director