

TAKACAT®

T220UL

USER GUIDE



Please be sure to observe the information on the type plate/info plate.

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Introduction:

This manual has been compiled to enable you to operate your watercraft safely and with pleasure. It contains details about the watercraft itself, accessories supplied or fitted and its installations, as well as information about its operation.

Please read it carefully and familiarise yourself with the watercraft before using it.

This users manual is not a course in boating safety or seamanship. If this is your first watercraft or if you have changed to a type of watercraft with which you are not yet familiar, please ensure for your own safety and convenience that you acquire knowledge of the handling and operation of the watercraft before taking command.

Your dealer or national yachting, Coastguard, powerboat association or yacht club will be happy to advise you of local boating schools or recommend experienced instructors.

Make sure that the expected wind and sea conditions correspond to the design category of your watercraft and that you and your crew are able to handle the watercraft in these conditions.

This manual is not a detailed maintenance or troubleshooting guide. In case of difficulties, please contact your Local Takacat Dealer or Distributor.

Use only trained and competent personnel for maintenance, repairs or modifications. Modifications that may affect the safety characteristics of the watercraft must be assessed, carried out and recorded by professionals. Any unauthorised modifications may void your warranty.

In some countries, a driving licence, registration or authorisation is required or special regulations apply.

Always maintain your watercraft properly and take into account the wear and tear that occurs over time and through frequent use or improper use of the watercraft.

Any watercraft, no matter how strongly built, can suffer serious damage from improper handling. This is not compatible with safe boating. Always adjust the speed and direction of the watercraft to the sea conditions.

All persons should wear a portable buoyancy aid (lifejacket/personal flotation device) when operator the watercraft. It should be noted that in some countries there are legal requirements to wear a buoyancy aid that complies with national rules at all times.

PLEASE KEEP THIS MANUAL IN A SAFE PLACE AND HAND IT OVER TO THE NEW OWNER WHEN YOU SELL THE WATERCRAFT.

- **WARNING** - When loading the watercraft, never exceed the maximum recommended load. Loading must always be done carefully, distributing the loads appropriately to maintain the design trim. Heavy loads must be placed as low as possible.
- **WARNING** - Do not exceed the maximum recommended number of persons. Regardless of the number of people on board, the total weight of people and equipment must never exceed the recommended maximum load.
- **WARNING - CAUTION IN THE EVENT OF SLOW WINDS AND FLOODS.** • **Caution** - Only use the appropriate towing rings in the bow and stern area for towing the craft. Failure to do so may result in damage to the hull.
- **WARNING – ENGINE.** The T220UL was designed to be compatible with a up to a 2hp electric outboard or equivalent do fit an engine that exceeds this rating.
- **Caution** - There should be no loose items in the craft. Always ensure that all items, including any paddles, anchors etc., are securely stowed in a suitable bag and that it is also securely fastened.



What's Included:

The delivery of your Takacat T220UL includes the following components:

- Inflatable Seat
- Oars x 2
- Repair patches x 2
- Valve Spanner
- Hand air pump
- Webbing Strap
- Clip on Outboard Bracket
- Carry Bag
- Boat
- Floor

Depending on national regulations, additional items such as emergency signals, fire extinguishers, navigation lights, anchors, bilge trowels etc. must be carried.

Please inform yourself in your own interest about the country-specific requirements.

Set-Up



Step 1: Remove the tubes from the carrying bag and lay it spread out on a flat surface. Check that the valve nipples are in the closed position (nipple up).

Step 2: The filling valves are conveniently located on the one side. Fill one chamber to 1 psi then fill the other chamber to 3psi. Then fill the other chamber up to 3psi. We complete this procedure in order to balance the chambers as they have a cone shaped baffle between them.

The tube chambers are equipped with safety pressure relief valves on the opposite tubes so that any excess pressure can be compensated. You can check the correct filling with the pump's pressure gauge, or you can use a SUP electric pump with the appropriate adjustment options. After completion of the close the valves with the corresponding caps.

When pumping, always ensure that the valve adapter is correctly locked and keep a proper distance during the pumping process so that no injuries occur in the event of the air hose popping off!



Note - fixing seam: When you have inflated the tubes, you will notice a seam that has come apart. This seam is not a defect but a so-called fixation seam that is set during production so that the connecting base can be glued at a right angle to the two inner tubes. When inflating, this fixing seam opens and the separated stitching threads can be seen, which rub away over time.

Step 3: Lay out the high-pressure floor and place it snugly between the support tubes. The filler valve must also be in the stern area. Ensure the Valve is in the closed position (nipple up) and pump up the high pressure floor to at least 8psi (max. 10psi).

Make sure that the valve is correctly seated and positioned between the support tubes. After the pumping process is finished, close the valve with the corresponding cap.

If you want to use an electric pump, then you must make sure that the pump can build up at least 10PSI pressure.

Always make sure that the valve adapter is correctly locked and keep a proper distance during the pumping process so that no injuries occur in the event of the air hose popping off!

Step 7: Put the individual parts of the two paddles together correctly until the locking heads are clearly visible fit onto the rollock pins.



Step 8: Inflate the Seat to 3psi. Position on the associated fabric D-rings between the hoses. Use some cord or stainless shackles or carabineers to secure into place.

Step 9: Fit the clip on engine mounting bracket. Fit one of the washer behind the board on each mount, then the board then another washer before fitting the locking eyes.



Dismantling

Step 1: Remove the Engine Mounting Plate. Secure all washers and nuts onto the stainless mounts so as to not lose them.

Step 2: Remove the Oars from the rollocks and split in half.

Step 3: Open the filler valve of the floor and push the nipple down and counter clockwise to open to deflate the floor. Fold in the direction of the valve to remove any excess air and put aside ready to place in the carry bag.



Step 4: Open the filler valves of the Tubes and push the nipple down and counter clockwise to open to deflate the tubes.

Step 5: Bring the bow down to the oar rollocks. Then fold the back of the tubes on top of this (the boat is folded into thirds. The roll side to side. Make sure the valves stay open so any trapped air

can escape. Wrap the webbing strap around it and pull it tight to keep tight and fit into the carry bag.



Step 6: The accessories supplied, including the high-pressure base, can also be stowed in the carrying bag.

Towing

Only use the towing ring on the bow for towing.

CAUTION: Your Takacat T220UL is very light so in windy choppy conditions it's not advised to tow it.

Water Drainage

The T220UL has a screw cap drain bung located at the rear of the floor.

Important notes:

1. The tubes of the T220UL are equipped with safety pressure relief valves on the Starboard side. This ensures that any dangerous overpressure is discharged in the event of thermal expansion in order to prevent damage to the tubes. If the outside temperature subsequently drops again, this can lead to the air pressures no longer representing the correct values. Therefore, always check the correct air pressure values of the tubes and the high-pressure floor before each journey. Always carry a hand pump to compensate for any pressure changes. Heat changes during the day - Be sure to check the pressure values of all air-filled components and correct them to the correct pressure values to avoid damage. The high-pressure floor is not equipped with a pressure relief valve. Therefore, avoid too intensive sunlight on the high-pressure floor - check and correct the pressure values if necessary.
2. When the watercraft is not in use, we strongly recommend storing it in the shade or under a cover to avoid excessive heating and pressure build-up in the tubes and high pressure floor. An inflatable Takacat left inflated for several days may lose pressure. According to ISO, 6185a pressure loss of 20% within hours²⁴ is permissible.
3. With inflatable boats, it can happen that the valve seats settle somewhat after production due to heat fluctuations and movement, causing air to escape. For this case, there is a valve spanner in your kit. The valve spanner with the teeth is compatible with the air inlet/outlet valves, the back side with the nodes is compatible with the two overpressure safety valves. Using the appropriate valve spanner, turn the valve insert slightly to the left so that the lower sliding friction can take effect and then hand-tighten to the right or clockwise direction.
4. The tubes of the Takacats are provided with protective TPU strips on the undersides (keel strips). Nevertheless, you must avoid contact with sharp-edged objects to prevent damage. It is strongly advised to move the inflatable with extreme care in areas with shallow water.
5. After each use of seawater, it is recommended to clean the Takacat with fresh water. For further care, the market offers a wide range of cleaning and care products.
6. In your own interest and in the interest of any passengers, make sure that all the necessary safety precautions have been taken and that all the necessary rescue equipment is carried and, if necessary, put on.
7. If you do not have formal boating training, we recommend that you attend a boating safety course where you will learn the skills of good seamanship, such as navigation, safety, environment, boat handling, line handling, anchoring, troubleshooting engine problems and appropriate responses in emergencies. The knowledge you learn in such a course can not only be helpful but also life-saving in an emergency.

Specifications

- Length: Single – 2.20m
- Width: 1.4m
- Draught: 150mm
- Tube diameter: 420mm
- Inside Beam: 0.56m
- Inside length: 1.48m
- Max. tube pressure: 3psi
- Max. High pressure bottom: 10psi
- Max. Persons: 2
- Max. Load: 260kg
- ISO 9001:2000 Standard
- Manufacture: ISO 6185-2 Category III
- Carrying bag dimensions: 80 x 40 x 54cm (length/width/height)
- Total Weight 14kgs
- Total in Bag Weight (less pump) 17kgs

All specifications are approximate and may deviate plus/minus 2-8%. Deviations in symmetry in the surface finish (wrinkles, bubbles, pressure marks, kinks, machining marks, colour deviations) as well as in the horizontal and vertical alignment and positioning of the individual components in relation to each other are due to design, physics and production technology.

Category D

A boat assigned to design category D is intended for operation in wind conditions with Beaufort strengths up to 4 and the corresponding wave heights (occasional wave heights up to 0.5 m). Such conditions may occur on sheltered inland waters and in coastal waters in good weather conditions.

