

Boat Manual

This manual is designed to assist you with the operation of the boat. Should you have any questions or problems please contact the owner.

Gasoline

The boat takes high Octane unleaded gasoline. DO NOT mix oil with the gasoline. The gasoline should be straight unleaded gasoline. The gas tank cap is located on the driver's side rear of the boat. The gas tank is full when the rental begins and you are expected to return the gas tank to full at the end of the rental. Please monitor the gas level on the fuel gage on the control panel. Keep in mind that this gauge will change based on the tilt angle of the boat. There are many places to get gas on the lake including "The Landing".

The Throttle

- A. On the throttle lever there is a round button located in the center. This will keep the prop in neutral when it is engaged even if the throttle is pushed forward or backward. This is used to warm up the boat at higher RPM's and also to prime the engine
- B. On the underside of the handle grip of the throttle there is a push button. When gripping the throttle this button must be squeezed into the throttle (pushed up with your fingers) in order for the throttle to be able to move forward or backward.
- C. On the outside edge of the throttle is the tilt/trim button for the motor. You can use this button to raise or lower the engine.

The Control Panel

- A. On the right hand side of the control panel there are switches for the lights, blower, and bilge pump.
 - a. The light switch has three positions. The center position is off. The up position is just one of the lights. The down position is both the front and back light. When operating the boat 1 hour before dusk and after dark both lights must be used.
 - b. The blower exchanges air from the engine compartment. It should be used before the boat is started to clear fumes and when the boat is operating at slow speed.
 - c. The bilge pump switch operates two bilge pumps. One located in the rear of the boat near the engine compartment. The other is located in the front of the boat. The bilge should be used to empty water before operation of the boat, when water is in the boat from rain or wet occupants, and after operation. The bilge should be turned off once water stops coming out of the driver's side rear window.
- B. The center of the control panel has the gas gauge, RPM gauge, speedometer, and tilt gauge.

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- a. The gas gauge will show the fuel level of the boat. Keep in mind that this level will change based on the tilt angle of the boat.
 - b. The RPM gauge will show the RPM level of the boat.
 - c. The speedometer will show the speed of the boat. A max speed with a flat lake, good trim, and low weight load is about 43 to 44 MPH.
 - d. The tilt gauge will show the tilt of the engine. Use the trim button on the throttle (described above) to adjust this tilt.
- C. The left side of the control panel has the fuses and the horn.

The Boat Lift

- A. To put the boat in the water you must go to the boat lift crank. Lift the small lever that is in between the spokes of the wheel that will prevent it from turning.
- B. Turn the wheel counter clock wise to lower the boat. Make sure that the bottom of the cradle of the boat lift is well under water to allow the boat to float off the lift.
- C. Once the boat is down in the water, then use the tilt/trim to lower the engine into the water BEFORE starting the boat. It just has to be in the water it does not need to be all the way down.
- D. When parking the boat on the lift place the boat so that the bow is a few inches from the front of the dock. This will mean that the boat is correctly positioned forward and backward. The foam guides should help position the boat from right to left.
- E. To raise the boat turn the wheel on the boat lift clockwise. Raise the boat so that the bottom of the boat is out of both the water and the waves.
- F. Make sure to also raise the engine using the tilt/trim so that it is in its highest position and is not hanging in the water. This is far above the “Up” position on the gauge so keep pressing the up tilt until the motor will not go any higher.

Starting the boat

1. Make sure the boat is in the water and that the engine has been lowered to that it is in the water.
2. Insert the key in the ignition.
3. Turn on the blower switch (right hand side of the control panel) to clear gas fumes from the engine area prior to starting.
4. Press in the round throttle neutral button described above.
5. When starting the boat for the first time, take the throttle and push it all the way forward and back to neutral several times with the round neutral button pushed. This will prime the engine with gas to allow for easier starting. This will not be needed if the engine has been running that same day.
6. With the neutral button pushed in, push the throttle slightly forward, say 15 degrees. (This is only needed when starting the boat for the first time, it can be started with the throttle straight up and down at all other times)

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7. Then turn the ignition key. The engine should start and run at a speed that is above idle. (This is why you pushed the lever forward)
8. Let the boat run at a speed that is higher than normal to let it warm up. If it is warm out this way only take a minute, but could take longer.
9. Once the engine is warm, push the throttle lever to straight up and down. This is neutral.
10. You will see the round button pop back out on the throttle lever when you go to neutral. This means that the prop is now engaged again and if you were to push the throttle out of neutral then the prop would spin.

Boat Operation

- A. To operate the boat in Reverse, push the button under the grip of the handle in to allow the throttle to move out of neutral and push the throttle toward the back of the boat. The boat will move in reverse.
- B. To operate the boat in Forward, push the button under the grip of the handle in to allow the throttle to move out of neutral and push the throttle toward the front of the boat. The boat will move forward.
- C. When the boat is back in neutral (the throttle lever is straight up and down) the button under the handle will pop out. Pay attention to make sure that you get the boat in Neutral. Sometimes you will have to jiggle the handle back in forth to insure that the button pops out and then you are in neutral.
- D. Remember that the prop is spinning when you are not in Neutral. Make sure that no one is swimming or is around the prop when it is out of neutral.

Tilt Position

- A. When going through shallow water the engine should be tilted to the up position. You want the prop to be in the water but as high as possible. When the tilt is in the up position you should be operating the boat slowly. Additionally, when the prop is in the up position the steering control is greatly reduced.
- B. The tilt of the boat will allow it to smoothly move across the water. If the tilt of the engine is too far down then the bow of the boat will constantly be pushed into the water. This would result in loss of speed and the potential for a wave to come over the bow.
- C. If the tilt of the engine is too high the bow of the boat will rise high out of the water. This will be apparent when you start forward motion and the bow raises very high and does not plane back to level. It would also be apparent if the boat is bouncing up and down even on flat water during operation.
- D. When you are out of a shallow area and are ready to go faster, place the engine tilt near one of the lower positions but not all the way down. Accelerate the boat to a higher speed.
- E. When the boat is moving at a faster speed use the tilt / trim to adjust the position of the boat. You will notice that if you leave the throttle constant and adjust the tilt that your speed will change. You can use the tilt to optimize your speed.
- F. Use the tilt to make sure that the boat is moving straight across the water with the bow not pushing down too far or raising up too high.

Guidelines

- A. Make sure that you can always see where you are going. If due to darkness or weather your view is obstructed slow down.
- B. Always raise the engine and operate the boat slowly in shallow areas or near potential obstructions.
- C. The boat is able to operate at 43-44 MPH. This is very fast. Be aware of other boaters, swimmers, animals, and the shoreline when operating the boat to see what effect your speed and your wake will have on them. Slow down to create less wake. Also make sure that all occupants in the boat are seated and all gear is secure before operating the boat at high speed.
- D. Make sure that no one is near the prop when it is spinning.
- E. Use the bumpers to protect the side of the boat when docking.
- F. Review the Four Winns operating instructions in the glove box of the boat
- G. Review the boating rules and regulations for the State of Minnesota located in the glove box of the boat.