

MARSH MASTER™

## PROP DRIVE



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# PROP DRIVE

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The Prop Drive attachment is intended to function like an outboard motor. It has a tiller handle for steering and a control valve that will allow you to propel forwards and backwards. When the Prop Drive is attached, there is no need to use the tracks to propel the Marsh Master through the water. In addition to traversing waterways, the Prop Drive can also give the Marsh Master a boost, enabling the tracks to get a bite when transitioning from water to land.

The Marsh Master is not intended for navigating waters with strong currents or high wave action. While the Prop Drive enhances the performance of the Marsh Master, it does not remove the danger of operating in such conditions. The operator must continue to heed all warnings and recommendations mentioned in the Marsh Master operator's manual.

## MOUNTING

The Prop Drive mounts to the Marsh Master on the rear channel. Simply fasten the Prop Drive mount to the channel using the existing eye bolts. The pressure and return hoses will connect to their corresponding quick connects at the rear of the radiator wall on the Marsh Master. It is important that the case drain hose be hooked up to the case drain quick connect. (This connection is not standard on all models, and must be added to run the Prop Drive. See manufacturer for details.)



## SAFETY

Use extreme caution when handling the Prop Drive or performing tasks nearby. The propeller rotates very fast, and is very dangerous. The propeller has no protective screen to fully isolate it. Regardless of whether or not the unit is being used, if it is plugged in, it should be treated as though it were running. We recommend leaving the unit disconnected from the auxiliary system until it is in the down position and ready to run.



**WARNING!**  
SERIOUS INJURY CAN OCCUR!

**DO NOT PLACE HANDS OR ANY OTHER OBJECTS ON OR NEAR THE PROPELLER WHEN THE PROP DRIVE IS CONNECTED TO THE AUXILIARY SYSTEM.**

Before entering an area that requires the Prop Drive, the operator should be familiar with the section of the Marsh Master manual on amphibious operation. We recommend that the tracks not be used to propel the machine in the water when operating the Prop Drive.

**NOTE: A U.S. Coast Guard approved flotation device must be available for everyone on board.**

### STOWED POSITION

When the Prop Drive is not being used, it is important that the unit be stowed in the upright position. When in the down position, the unit hangs down low and can catch on any objects that protrude up from the ground.

The upright position causes the propeller to be more exposed. As previously stated, we recommend that the unit be disconnected from the auxiliary system when in the upright position.



### PROPELLING

Once the operator has driven the Marsh Master into the water, use the following procedure to operate the Prop Drive:

1. Ensure that the Prop Drive control valve is in the neutral position.
2. Let the Prop Drive down from the stowed position.
3. Connect the hoses to the Auxiliary System quick connects.
  - a. Ensure that the case drain is also connected.
4. Once the unit has been plugged in, switch the Auxiliary Selector valve from WINCH to AUXILIARY. (The location of this valve depends upon the model of Marsh Master being used.)
5. Bring the Marsh Master RPMs up to 2000.



The Prop Drive is now ready to be used, and is essentially in the same condition as an outboard motor that is running in neutral. Simply switch the valve to the indicated position shown below to move in the desired direction, and steer the machine as one would steer using an outboard motor. The throttle of the Prop Drive is controlled by the throttle of the Marsh Master. However, we do not recommend altering the throttle from the speed indicated in step 5 above. Due to the drag of the machine, there is minimal effect on speed when changing the speed of the Prop Drive.

**Prop Drive Controls:**

Forward



Neutral



Reverse



***USING THE PROP DRIVE TO ASSIST IN EXITING WATER***

When exiting water, the Prop Drive can be used to help the Marsh Master tracks get a bite on steep banks. This can be achieved with a single operator on board. From the rear of the Marsh Master, the operator should position the tiller handle facing straight forward, and set the control valve to forward. The propulsion should keep the Marsh Master pressed against the bank so that the operator can move forward to the cab. Once in the cab the operator should slowly engage the tracks until they grab.

Caution and good judgment should be used when selecting an exit point. Too steep of a bank can position the machine at an angle where water can come over the rear transom, swamping the Marsh Master. The operator should monitor the amount of freeboard in the rear as the machine exits the water. The weight and distribution of loads will greatly affect the machine's ability to maintain freeboard. As mentioned in the Marsh Master manual, we recommend unloading all extra loads and personnel before attempting to exit water via a steep bank.