

Scavenger Backwater Motors Owners Manual



Welcome to the world of Scavenger Backwater Motors. Let your Scavenger propel you to the places you have always wanted to get to, but couldn't. You will find this product very durable, reliable, and easy to maintain. With some minor assembly you will be on your way to the water.

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General Information

Things to remember!

1. Your Scavenger engine is shipped without gas or oil in it. You **must** fill the oil to the required level before starting the engine.
2. This product is like any other piece of machinery. It does not think and can cause damage to property and cause bodily injury if not operated in a safe manner. Keep the prop clear of people when operating the Scavenger, and never put the prop in the boat with the engine running.

Boaters Responsibilities

The operator (driver) is responsible for the safe and correct operation of the boat and the safety of its occupants and general public. It is strongly recommended that each operator read and understand this manual.

Boat horsepower capacity

Do not over power your boat. Most boats have a capacity plate indicating the maximum horsepower. You can damage the boat if you exceed these limits.

Operating the Scavenger

1. Learn how to operate your Scavenger . Start slow and familiarize yourself with the controls and general operation.
2. There is no neutral or reverse with these types of motors. It is always a direct drive operation. To obtain a neutral you will have to push the handle bar down and raise the prop up out of the water.
3. We recommend that you always start and turn at a low idle. With a high throttle it is very difficult to bring the handle back into the boat from a tight turn.

Operating in salt water or contaminated water

1. Even with a galvanized construction, your Scavenger will corrode from extended use in salt water or contaminated water. We recommend that the machine is washed down after every use, and kept clean.
2. When docked, do not leave the propeller in the water for an extended period of time.
3. We recommend a coat of marine paint to provide an extra layer of protection.

Lanyard stop switch

1. The purpose of a lanyard stop switch is to turn off the engine when the operator move far enough away from the operators position (as in accidental ejection from the operators position). This would occur if the operator accidentally falls overboard or move out of the operators position. Even with the stop switch activated the boat can still coast for some distance.
2. The lanyard cord is usually between 4 and 5 feet long when stretched out with a fastener for attaching to the operator. The lanyard is coiled to minimize entanglement with other objects. If it is desired to have a shorter lanyard, wrap the lanyard around the operator's wrist or leg, or tie a knot in the lanyard.
3. To avoid serious injury or death from deceleration forces resulting from accidental or unintended stop switch activation, the boat operator should never leave the operators station without first disconnecting the stop witch lanyard from the operator.

Warning

Should the operator fall out of the boat, the possibility of serious injury or death from being run over by the boat can be greatly reduced by stopping the engine immediately. Always properly connect both ends of the stop switch lanyard - to the stop switch and the operator.

Impact with underwater hazards

Your Scavenger motor can withstand impact common with shallow water operation. Keep in mind that most underwater rocks and stumps can't move, and when struck by the prop or scag the handle will move suddenly down. Reduce speed and proceed with caution when driving in shallow water.

Transporting

With the engine off, move the prop into the boat and secure it when transporting your Scavenger to prevent damage to the frame.

Assembling the Scavenger

Unpacking

- 1 The Scavenger Backwater Motor is delivered in two packages.
 - a. The long package contains the boom assembly, handle bars, and all of the hardware needed to assemble the machine.
 - b. The engine assembly will be in the other package.

Assembly

The following is a step by step way to assemble your Scavenger.

TOOLS



USEFUL TOOLS TO HAVE ON HAND

- 1 - 7/16 NUT DRIVER
- 1 - 1/2 NUT DRIVER
- 2 - 7/16 WRENCHES
- 2 - 1/2 WRENCHES
- 1 - FLAT TIP SCREWDRIVER

UNPACK YOUR PACKAGE

PACKAGE SHOULD INCLUDE

- 1 - FRAME
- 1 - MOTOR
- 1 - PULLEY COVER
- 1 - TRANSOM MOUNT
- 4 - MOTOR BASE BOLTS
- 6 - MOTOR SHIMS
- 1 OR 3 - V-BELTS DEPENDING ON THE MODEL



START YOUR ASSEMBLY ON A HARD
FLAT SURFACE



SET THE MOTOR ON THE BASE AND
JUST
START THE NUTS ON TWO BOLTS NEXT
TO THE PULLEY



TIP THE MOTOR AND SLIP THE BELT OR
BELTS INTO PLACE ON THE PULLEY



INSERT THE OTHER TWO MOTOR
BOLTS AND PLACE THE SHIMS UNDER
THE NUTS. THE SHIMS ARE TO BE USED
WHEN THE BELT STRETCHES FROM
USE.



TIGHTEN THE MOTOR BOLTS CAREFULLY

TIGHTEN THE BOLTS ON THE PROPELLER END OF THE MOTOR FIRST (TO AVOID POSSIBLE DAMAGE TO THE ENGINE BASE).



PUSH TOGETHER THE HANDLE BARS



SLIDE THE HANDLE INTO THE MOUNT DO NOT KINK OR BEND THE THROTTLE CABLE



TIGHTEN THE CLAMP NUTS



ATTACH THE CABLE



MOVE THE THROTTLE LEVER TO FULL AND BACK OF SLIGHTLY APPROXIMATE 1/4 INCH. PULL THE CABLE SO MOTOR ARM ENGAGES THE THROTTLE STOP AS SHOWN AND SNUG THE CABLE CLAMP. BE SURE TO NOT OVER TIGHTEN THE CLAMP.





WHEN THE THROTTLE IS MOVED TO THE STOP POSITION THE MOTOR ARM SHOULD MAKE CONTACT WITH THE KILL WIRE IF NOT READJUST THROTTLE.



MOUNT THE PULLEY GUARD AND TIGHTEN ALL BOLTS

Note: Honda and Kohler throttles are slightly different than the Tecumseh model shown

IMPORTANT GO THROUGH ALL OF THE NUTS AND BOLTS TO BE SURE THEY ARE TIGHT.

IMPORTANT

WHEN YOU PLACE THE TRANSOM MOUNT ON THE BOAT .THE PIVOT TUBE GOES TO THE **OUTSIDE** OF THE BOAT. TIGHTEN THE CLAMPING BOLTS TO THE TRANSOM.



MOUNT THE MOTOR ON THE TRANSOM MOUNT. INSERT THE SAFETY BOLT AND TIGHTEN THE NYLOCK SELF LOCKING NUT.

WARNING

IF YOU MISS THIS STEP THE MOTOR CAN SLIDE OUT OF THE TRANSOM MOUNT WHILE IN OPERATION! SERIOUS INJURY OR DAMAGE MAY RESULT.

IF YOU HAVE ANY QUESTIONS ABOUT THE ASSEMBLY PLEASE CALL (888) 531-5045 WE WILL BE HAPPY TO ASSIST YOU.

Battery - Electric Start Models

1. Mounting the battery.

Follow the manufacture's instruction carefully. Mount the battery in the boat so that it is secure from movement. Battery boxes are recommended to prevent accidental shorting of the battery terminals.

2. Attaching the battery cables.

When attaching the battery cables, always connect the positive cable first, then connect the negative cable.

3. Disconnecting the battery cables.

When disconnecting the battery cables, always disconnect the negative cable first, then disconnect the positive cable.

Adjusting your Scavenger

Your Scavenger is factory set for most boats. Best performance is obtained when the tail fin flows just under the water at full speed.

1. Tail fin adjustments.

If the tail fin was riding too deep, insert washers under the tail fin on bolts 1 and 2 equally.

If the tail fin pops out of the water at full speed , insert washers under the tail fin on bolts 3 and 4 equally.

Note: Use just 1 or 2 washers at a time to change the tail fin angle.



2. Boom rest adjustment.

With the tail fin adjusted properly the boom should ride about 1/2 inch off the boom rest at full power and speed. This setting should be check with the boat traveling as light as possible for maximum speed.

3. Adjusting the boom rest

With the boat on the trailer measure the distance from the boom rest to the ground. Use a long board or pipe and bend the boom rest down slightly, without prying against the boom, and measure the distance again. Bend the boom rest only about a 1/4 inch at a time and check the setting in the water at full power. This setting should not change after it is set.



4. Transom mount

With the boat in the water move the prop from one side to the other. The depth of the prop should remain constant throughout the travel. If the prop comes out of the water or dives down at the sides, contact the factory for a replacement transom mount.

The standard transom mount will work if the transom angle is between 12 and 15 degrees. The boat handles best if the pivot shank is mounted straight up and down.

Warranty Registration

1. It is very important to fill out the warranty registration. Online registration can be done easily on line at <http://www.scavengerbackwater.com/warranty/>. You can also fill out the warranty registration and mail it to Scavenger Backwater Motors Po Box 206 Marble Rock IA 50653.
2. The product warranty is not in effect until the product is registered at the factory. Any warrant claims will not be accepted with out being registered.
3. The warrant registration must be received within 30 days of receiving your Scavenger.

Scavenger Warranty

WARRANTY NOTE: Henceforth, in this document, the word (Company) shall be considered the same as Scavenger Backwater Motors, inc.

SECTION 1: TWO-YEAR LIMITED WARRANTY: The Company warrants, that for a period of two (2) years from the date of purchase or delivery date, whichever occurs last, it will replace or repair, free of charge, for the original purchaser only, any frame component part, excluding those parts which are covered by the ONE YEAR LIMITED WARRANTY, manufactured by the

Company, found upon examination by the Company or its assigned representatives, to be defective in material or workmanship or both.

SECTION 2: ONE YEAR LIMITED WARRANTY: The Company warrants, that for a period of one (1) year from the date of purchase or delivery date, whichever occurs last, it will replace or repair, free of charge, for the original purchaser only, any defective bearings, belts, throttle cable, propeller and power shaft component parts, manufactured by the Company, found upon examination by the Company or its assigned representatives, to be defective in material or workmanship or both. All transportation charges shall be borne by the original retail purchaser listed on this warranty paper. This is the exclusive remedy under this warranty.

Failure by the original retail purchaser to: assemble, maintain, and operate said equipment or failure to comply with the specific recommendations of the Company shall rule this warranty null and void. The Company shall not be liable for any repairs, replacements, or adjustments to the equipment or any costs for labor performed by the purchase without the Company's prior written approval. The effects of corrosion, erosion and normal wear and tear are specifically excluded from this warranty.

THE COMPANY MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OR MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE HEREBY DISCLAIMED, LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER ANY AND ALL WARRANTIES, OTHER CONTRACTS, NEGLIGENCE, OR OTHER TORTS IS EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

Notwithstanding the above shall bar any legal claim against the Company if legal action thereon is not commenced within the limits set forth in sections 1 and 2 of this warranty. This warranty constitutes the agreement between the Company and the original retail purchaser and no authorized agent is authorized to alter the terms of same without written consent of the Company.

SPECIFIC RECOMMENDATIONS FOR MATCHING HORSEPOWER TO BOAT SIZE Actual top speed and thrust claims tested under normal conditions by the Company will vary from designs and types of boats that said unit was tested under. YOUR BOATS APPLICATION MAY BE LESS OR GREATER THAN THE CLAIMS SET FORTH BY THE COMPANY IN ITS ADVERTISING.

Returns

Items may be returned within thirty (30) days of receipt for a Refund/Credit or Exchange (less shipping and restock charges). Items must be returned in new condition, never used, and in the original manufacturers packaging. A Material Return Authorization (MRA) number is required for all returns. Refunds/Credit will not be issued for products returned without an MRA number. Contact Scavenger Backwater Motors, inc. to obtain an MRA number and any restocking charges that may apply to the return. You can ship the item(s) back prepaid via your preferred shipping method. We strongly recommend that you insure the shipment for your protection. Refunds/Credit will not be issued for returned items that are damaged in transit to Scavenger Backwater Motors, inc. Send Returns with MRA number To:

Scavenger Backwater Motors, inc.
110 S MAIN
MARBLE ROCK, IA 50653

Mail to: PO Box 206
Marble Rock, Ia. 50653

Phone 1-877-573-5806

Scavenger Warranty Registration

*Model of Scavenger: _____
*Date of purchase: _____
*Date of delivery: _____
*Purchase price:\$ _____

Your Information

*Name: _____
*Email: _____
*Phone: _____
Company: _____
*Address 1: _____
Address 2: _____
*City: _____
*State or Province: _____
*Zip or Postal Code: _____
*Country: _____

Dealer Information

*Dealer Name: _____
*Dealer State: _____