

Owner's Manual

Beavertail Maintenance Manual

Beavertail Motor

6.0 HP Kohler

13.0 HP Honda

13.0 HP Vanguard/Briggs

20.0 HP Kohler

24.0 HP Honda

27.0 HP Kohler

35.0 HP Vanguard/Briggs

BEAVERTAIL



CAUTION:

Before using your Beavertail,
Read this manual and follow
All its Safety Rules and
Operating Instructions.

Customer Service Number
877.466.8837

www.explorebeavertail.com

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Vision Statement

“To continue to be the premier manufacturer of shallow water motors and continuously seek ways to improve by constantly challenging the status quo”

Warranty

All Beavertail motors are shipped only after quality testing to operate at top performance. Once your motor arrives, please inspect the entire unit. In case of damage from shipping contact our customer service department at 877-466-8837 with the shipping number and damage details.

Frame Warranty:

If the frame fails due to a defect in the material or workmanship within 3 years for the date of purchase please contact Beavertail Manufacturing, Inc. at 877-466-8837 between 8:00AM and 4:00 PM Central Standard Time or through the U.S. Mail at:

Beavertail LLC
411 West Congress Street
Maple Lake, MN 55358

For sales or marketing information please contact us at:

Beavertail LLC
411 West Congress Street
Maple Lake, MN 55358

Toll Free 877.GO.OTTER
Customer Service 320.963.6480
Fax 320.963.6192

We provide these numbers so we can provide the finest service in the industry, so please use them if you need to.

This warranty is void if damage is a result of abuse, negligence or lack of lubrication. This warranty does not apply to the propeller and is only valid to the original purchaser.

Engine Warranty:

Honda®Engines and Kohler Engines come with a 2-year warranty on the power head. Vanguard/Briggs & Stratton have a 3 year warranty. If the engine fails due to a defect in the materials or workmanship within the warranty period from the date of purchase please contact Honda or Briggs & Stratton or Kohler Engines. The contacts are listed in the engine owners manual or online at the manufacturers website.

SAFETY

SAFETY INSTRUCTIONS BEFORE USING THE BEAVERTAIL

Safety is a combination of common sense, staying alert and knowing how to use your Beavertail.

! WARNING

To avoid mistakes that could cause serious injury, do not operate the Beavertail until you have read and understood the following:

1. **READ** and become familiar with this entire instruction manual. Learn the machines applications, limitations, and possible hazards.
2. **AFTER READING THIS OWNERS MANUAL ALSO READ** and become familiar with the *Operating and Maintenance Instructions Manual* for your Briggs & Stratton or the *Owners Manual* for your Honda Engine.
3. **KEEP GUARDS IN PLACE** and in working order.
4. **KEEP CHILDREN AWAY.** All passengers should be kept at a safe distance from the Beavertail.
5. **DON'T FORCE THE MACHINE.** It will do the job better and safer at the rate of which it was designed.
6. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended.
7. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure the key is out of the ignition when servicing your Beavertail.
8. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for the recommended accessories. The use of improper accessories may cause risk of injury to persons.
9. **NEVER LEAVE MACHINE RUNNING UNATTENDED.** Turn the ignition "OFF". Don't leave the Beavertail until it comes to a complete stop.
10. **DON'T OVERREACH.** Keep proper footing and balance at all times.
11. **MAINTAIN YOUR BEAVERTAIL WITH CARE.** Keep propeller in good working condition for best and safest performance. Follow instructions for lubricating and changing accessories.
12. **CHECK FOR DAMAGED PARTS.** Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect it's operation. A guard or other part that is damaged should be properly repaired or replaced.
13. **SALT WATER MAINTENANCE.** After running your Beavertail in salt water, wash it down completely from handle to propeller. Then spray with Teflon or WD-40 especially the U-Joint and entire frame.
14. **MAKE BEAVERTAIL KID PROOF** by removing starter key when not in use.
15. **DO NOT** operate the Beavertail if you are under the influence of any drugs alcohol or medication that could affect your ability to use the machine properly.
16. **GAS FUMES CAN BE HAZARDOUS TO YOUR HEALTH.** Always operate the Beavertail in a well-ventilated area.
17. **YOUR BEAVERTAIL MUST BE BOLTED SECURELY TO YOUR TRANSOM.**
18. **ALWAYS KEEP HANDS OUT** of the path of moving parts, including the propeller, shaft, u-joint assembly, etc.
19. **NEVER START THE IGNITION BEFORE** clearing the propeller of all foreign objects.
20. **TO AVOID INJURY** from accidental starting, always remove starting key when servicing the Beavertail.
21. **PROPER PRECAUTIONS.** Always wear an U.S. Coast Guard approved life jacket when operating the Beavertail in bodies of water.
22. **ATTACH SAFETY LANYARD** to your wrist or lifejacket. Motor will disengage when distance between the attached lanyard and the motors safety clip is exceeded.

SAVE THESE INSTRUCTIONS

Assembly

Assembly Instructions

If you purchased your Beavertail from a Dealer some of the assembly steps may be completed.

Enclosed you will find your new Beavertail, a handle assembly and a bag containing: plastic ties, this manual, the engine manual (Briggs & Stratton, Honda, or Kohler).

STEP 1:

Loosen the transom mount

The transom mount is secured to the crate with size 15/16" bolts. These bolts can be loosened and the strap that holds the propeller end of the motor in place during shipping can be cut. Use caution when cutting this strap because the end with the engine is heavier and may cause the propeller end to flop up which could cause personal injury or damage to the equipment.

Step 2:

Install Motor to Boat

Now center the Beavertail on the transom of your boat. Transom height should be 15" for optimum performance.

Slide a small piece off 1/4" or 3/8" plywood between the transom bolts and transom. This will protect the transom on your boat.

Tighten the 20lbs of pressure or use an 8" crescent wrench until snug. Using a 3/8" bit drill a hole through the predrilled hole located on the engine's transom mount and through the boat's transom. Secure motor to boat with a 3/8" X 3" bolt (not included).

This is done to detour easy theft and to hold the motor to the boat in the event that the (2) 15/16" fastening bolts were to become loose.

Step 3:

Add Oil to Motor

Step 4:

Handle Installation

Remove the small plastic ties that hold the battery cables and gas line during shipping. Remove the two (2) bolts located on the mounting plates of the handle.

Use the two bolts on key side of the engine of motor mount. These are the two bolts which hold handle on. Exhibit 1.



Step 5
Throttle Installation

Insert throttle wire as depicted in diagrams below:
20-27 Kohler



9-11-13 Honda



Honda 24



35 Briggs & Stratton

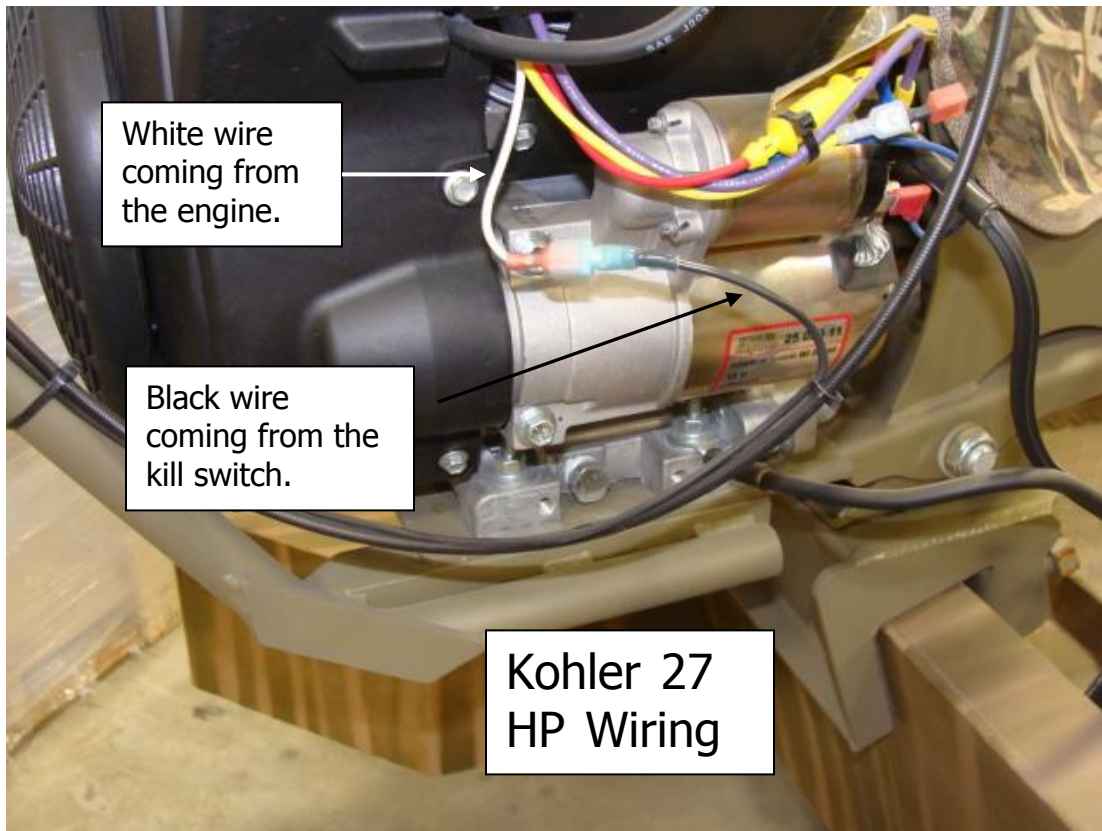


6 Kohler

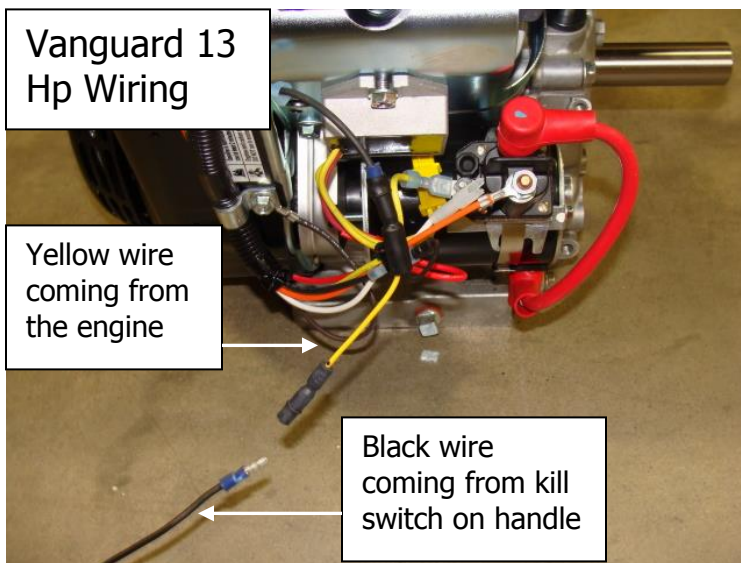


6.5 Vanguard





On the 27 Hp Kohler connect the black wire coming from the kill switch on the handle to the white wire coming from the engine. Do not connect to the yellow wire. Doing so will cause the fuse to blow on the engine wiring.



Connect the black wire coming from the kill switch on the handle to the yellow wire coming from the engine on the 13 HP Vanguard.

Hook up the gas line to a standard 6 gallon OMC type gas tank. Read your engine manual for the proper fuel before using engine.

Remove key from starter and hook up the battery cables. Begin by attaching the red (positive) battery cable to the positive post located on the battery. Next attach the black (negative) battery cable to the negative battery post.

Maintenance for the model #22711 & model #22712 Beavertail motor with the removable bearing assembly.

MAINTENANCE

Maintenance for the model #22711 Beavertail motor with the removable bearing assembly.

Seal replacement:

After 50 hours on your Beavertail it is recommended to replace the seals in the cap of your lower bearing housing by the propeller.

1. Remove Nuts and prop as seen in Figure 1. (It may be necessary to use a prop wrench. It will also be necessary to place a heavy screwdriver into the u-joint assembly by the motor. Place it on the side of the assembly that does not have a grease zerk or it will get damaged.)
2. Remove cap from housing Figure 2. (Note: the cap and housing are reverse threaded so they will not loosen up during operation. Remove by turning the cap **CLOCKWISE** to loosen).
3. Replace seals in cap. (If you are not familiar with this your local mechanic can do this easily).
4. Now slowly grease the zerk as seen in figure 2. Grease until you see grease start to come out the bottom. (Grease needs to be Poly Supreme Extreme Duty N L G I #.2. Failure to use this grease could void your warranty).
5. Next spin the cap back onto the shaft. (Spin it carefully back onto the shaft so the threads on the shaft do not damage the seals).
6. Now spin the cap back on the bearing housing. (Note you must turn the cap **COUNTER CLOCKWISE** to tighten).
7. Replace the nuts and propeller back onto the shaft. (Insert a heavy screwdriver into the u-joint so the shaft will not spin as you tighten the nuts. Insert the screwdriver on the side of the u-joint assembly that does not have a grease zerk).

8. It is recommended to remove the prop 2-3 times per year and apply anti-seize to the prop shaft. This will help to keep the prop from seizing on the shaft which makes removing the prop extremely difficult.

9. Grease the shaft tube every 25 hours or annually. Usually 3-4 pumps is enough for proper lubrication.

Fig 1

Fig 2

Other Maintenance:

1. Check engine oil frequently.
2. Check battery cables to ensure that they are tight.
3. Grease bottom swivel plate 2 to 3 pumps every month (There are two zerks one under by the handle and the other is under by the height adjustment bolt).
4. If you have any questions please contact your dealer.

Zerk for u- joint. All models



Shaft Tube Grease Zerk



Prop Remover Wrench



Rubber Trim Adjuster



Grease Zerks for up, down and turning

