

BEACHCOMBER™ LAKE RAKE

Assembly and Use Instructions



AQUACIDE COMPANY

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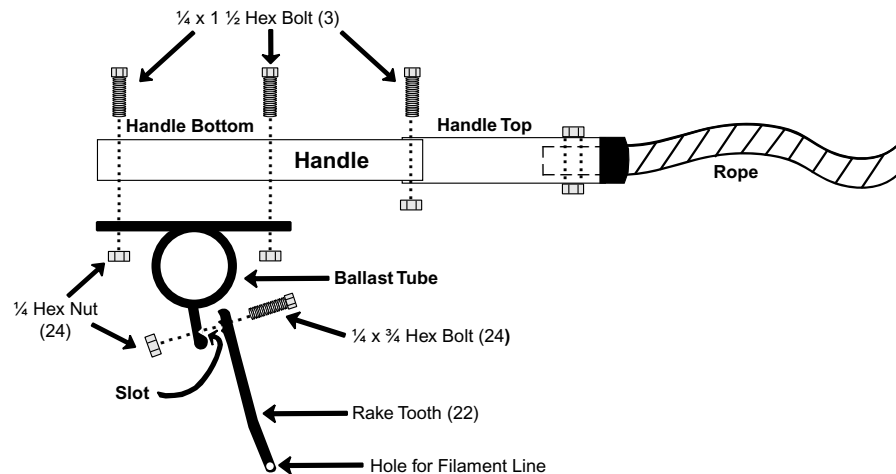
BEACHCOMBER™ LAKE RAKE

Thank you for your recent purchase of the **BEACHCOMBER™ LAKE RAKE**. Please read the following assembly and operating instructions to get the best performance from **THE BEACHCOMBER**.

ASSEMBLY: (See Diagram)

1. Install (22) plastic teeth to rake bar using $\frac{1}{4}$ " x $\frac{3}{4}$ " bolts and hex nuts. Tighten nuts using no more force than a hand nut driver (similar to a screwdriver) can produce.
2. Assemble rake handle by telescoping (2) pieces together and secure with (1) $\frac{1}{4}$ " x $1\frac{1}{2}$ " hex bolt and $\frac{1}{4}$ " hex nut.
3. Install handle to rake bar using (2) $\frac{1}{4}$ " x $1\frac{1}{2}$ " hex bolts and $\frac{1}{4}$ " hex nuts. Tighten bolts securely.

ASSEMBLY DIAGRAM END VIEW



ASSEMBLE FLOATS:

1. 6" Handle Float: Using gentle hand pressure, separate the float at the lengthwise slit enough to force it over the rake handle. Slide the float so that it touches the rake bar and adjust for personal use.
2. 6" Bar Floats: Carefully separate the floats at the lengthwise slit and force them over the outer tooth on each side of the rake. Rotate the float at least 90 degrees and push the float all the way up to the rake bar. Use firm pressure as this is meant to be a tight fit.

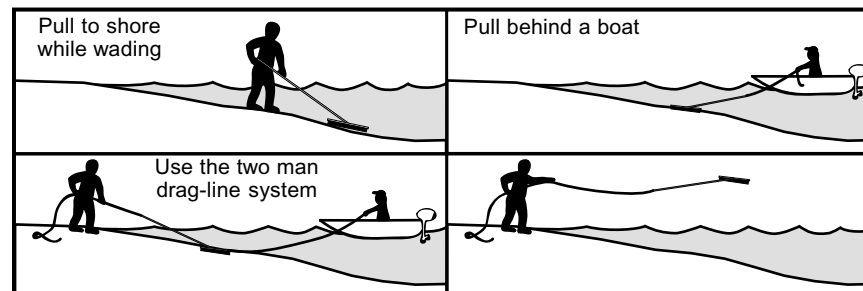
This system was designed so that the floats can be installed and taken off without removing the handle from the rake bar and without unfastening or cutting the filament line.



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Additional weight increases **THE BEACHCOMBER'S** digging action to suit your needs. Weight is easily added by removing the yellow end cap and filling the rake bar with stones, gravel or steel pipe.

OPERATING TIPS:

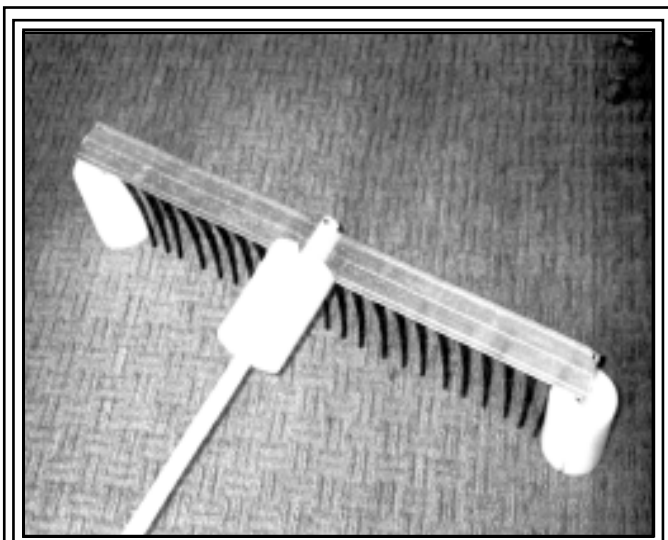
1. The rope system requires two persons to operate. One person anchors a boat or raft in deep water while the other stands at shore. The shore rope pulls the rake and weeds into shore for removal. The lake rope transports the empty rake back to the work area to repeat the operation.
2. To use **THE BEACHCOMBER** while wading, remove the ropes from both ends of the rake. Wade out to the work area, drop the rake to the lake bottom, and pull to shore. Keep some pressure on the rake to keep it on the lake bottom while pulling or add weight. (See #5).
3. Sometimes it is advantageous to throw **THE BEACHCOMBER** from a dock into deep water, then retrieve using the rope on the handle end. This is effective in deep-water areas, however a word of caution. **DO NOT** throw the rake into shallow water or against boat docks or other waterfront equipment as the extreme force of a weighted rake may break the rake teeth.
4. A little experimenting with weight, retrieval speed and filament line will best produce the right combination for your particular situation.
5. Adding weight to the ballast tube is necessary when using the rope system and is helpful when wading. At least 3 lbs. or more is often desirable depending on lake bottom soil type. Enough weight should be added to the ballast tube so that the teeth penetrate the lake bottom up to $\frac{1}{2}$ " in soft soils. On hard lake bottoms the soil should be aggressively scratched by the rake teeth.
6. Approximate weights of material that can be added are as follows:

Gravel and stones	3 lbs.
Concrete	5 lbs.
34 inches of 1" schedule 40 pipe	5 lbs.
34 inches of 1" schedule 80 pipe	6 ½ lbs. (recommended option)
34 inches of 1" schedule 160 pipe	8 ½ lbs.
1-1/4" solid rod	11 ½ lbs.

NOTE: One-inch schedule pipe has an outside diameter of 1.315 inches. The ballast tube is made to accept this size pipe. The numerical designation of the pipe (i.e. 40, 80, 160) refers to the wall thickness of the pipe, therefore the weight variations.

7. The filament line (included) is useful in many situations where a firm lake bottom is present. We recommend using the filament line in about 80% of the situations commonly found at the waterfront.
8. To attach the filament line, thread through the holes found at the tips of the rake teeth. Tie the filament line at each end tooth using a cinch knot.
9. **Clear large trash items (tires, logs etc.) and large rocks from the area before using THE BEACHCOMBER.** This material will prevent the rake from reaching the bottom and reduce the effectiveness of your weed removal efforts.
10. Pull **THE BEACHCOMBER** at a relatively fast pace (walking speed). It is however, important to keep the teeth scratching the bottom when pulled. Make sure you have adequate weight to accomplish this.
11. A systematic approach, working from one side of the area to be cleared to the other, and from deep water to shore, will produce the best and fastest results.
12. Do not pull weeds out into the lake. They will create a floating nuisance for you or others. Dispose of them properly.
13. Leave the removed weeds to dry for a day or more before hauling them away. The dried weeds will be far lighter and easier to handle. Lake weeds can be burned if left to dry in the sun. Untreated weeds make good garden fertilizer.

Beachcomber™ LAKE FLOAT SYSTEM



The **Beachcomber™ Lake Rake System** has three 6" long floats that attach easily to the rake and work well to gather surface weeds and algae.

To Install:

1. **6" Handle Float:** Using gentle hand pressure, separate the float at the lengthwise slit enough to force it over the rake handle. Slide the float so that it touches the rake bar and adjust for personal use.
2. **6" Rake Bar Floats:** Carefully separate the floats at the lengthwise slit and force them over the outer tooth on each side of the rake. Rotate the float at least 90 degrees and push the float all the way up to the rake bar. Use firm pressure as this is meant to be a tight fit.

This system was designed so that the floats can be installed and taken off without removing the handle from the rake bar and without unfastening or cutting the monofilament.



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