



FIGURES 493 & 500 INTAKE WATER STRAINER INSTALLATION AND OPERATING INSTRUCTIONS

NOTE: Prior to installation consult your Engine Manual for recommended pipe size and strainer location. For proper protection, A.B.Y.C. Standards E-1 (Bonding of Direct Current Systems) and E-2 (Cathodic Protection) must be adhered to.*

1. The PERKO Water Strainers have been designed to be installed on the intake side of the water cooling system to minimize exposure to electrolysis.
2. Mount strainer on a flat surface in a vertical position. Allow clearance above strainer to remove basket for cleaning.
3. For correct installation, note that the inlet and outlet fittings are marked on the top casting. For convenience in piping, these units have mounting lugs on two sides.
4. Drill mounting holes, using mounting lugs on strainer as a template. Strainer should be mounted to ensure proper support from bulkhead to eliminate any strain on the pipe.
5. PERKO strainers are designed to give 100% full flow, without restriction (see Note No. 7). The use of reducers may cause engine damage and therefore is not recommended. The following table shows the rated strainer open area to pipe cross-section ratios:

FIG. NO.	PIPE SIZE	RATIO
493 #3	3/8	22:1
#4	1/2	30:1
#5	3/4	25:1
#6	1	20:1
#7	1-1/4	13:1
#8	1-1/2	17:1
#9	2	13:1
#10	2-1/2	10:1
500 #9	2	20:1
#10	2-1/2	18:1
#11	3	14:1

6. After all connectons are complete, start engine and check entire system for leaks.
7. **IMPORTANT:** Periodic inspection and removal of foreign matter is essential for safe operation. This requirement will vary, depending on amount of use and local operating conditions. Quick cleaning of strainer is accomplished by removal of basket through access plate in top of casting.
8. **IMPORTANT:** Periodic inspection of components is also essential for safe operation. Make sure to check castings, fasteners, cover gaskets, plug, tie rods, etc., for damage or deterioration on a regular schedule.

SPARE PARTS

Specify Fig. No. of Strainer, Size and Part No. below

99A - Top Casting	99G - Tie Rod
99B - Bottom Casting	99H - Nut & Washer for Tie Rod
99C - Transparent Cylinder	99J - Cylinder Gasket
99D - Basket Strainer	99K - Wing Nut & Washer for Cover
99E - Cover	99L - Hinged Bolt for Cover
99F - Cover Gasket	with Pin, Nut & Washer

* Above standards can be obtained from:

AMERICAN BOAT & YACHT COUNCIL, INC.
190 Ketcham Avenue
Amityville, NY 11701

PERKO, INC.
16490 N.W. 13th Avenue
Miami, FL 33169-5718