



Cat. No. 0594 Series Duplex Heavy Duty Intake Water Strainers

INSTALLATION AND OPERATING INSTRUCTIONS

NOTE: Prior to installation, consult your Engine Manual for recommended pipe size and strainer location. Flow charts are provided on the back of this sheet to aid in the selection of the proper strainer size for your system. Duplex strainers permit continuous engine operation by permitting strainer clean-out while the engine is running. Properly sized, a single side of the strainer will allow adequate flow for cooling. Using an integral valve, either side can be closed and cleaned while providing coolant flow to the engine through the other side.

For proper protection, A.B.Y.C. Standards E-1 (Bonding of Direct Current Systems) and E-2 (Cathodic Protection) must be adhered to.* (These Standards may be obtained from the American Boat & Yacht Council, Inc., 613 Third Street, Suite 10, Annapolis, MD 21403).

- 1). The PERKO Water Strainers have been designed to be installed on the intake side of the water cooling system.
- 2). Mount strainer on a flat vertical surface and in a vertical position. Allow clearance above strainer to remove both baskets for cleaning.
- 3). For correct installation, note that the inlet and outlet fittings are marked on the underside of the top casting. For convenience in piping, there are mounting lugs on both sides of the strainer.
- 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 of pipe size (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:

Cat. No.	Pipe Size	Each Side Ratio
0594008PLB	1-1/2	17:1
0594009PLB	2	13:1
0594010PLB	2-1/2	10:1

- 6). After all connections are complete, start engine and check entire system for leaks.
- 7). **OPERATION:** Reduce engine speed if running. Selector handle pulls out to release safety, then operate handle to turn off cylinder to be cleaned. Remove cover, swap basket with the spare (included), and close cover. Clean basket to use for next swap.
- 8). **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 in top in casting.
- 9). **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.
- 10). **WINTERIZING:** To prevent damage by freezing, drain each strainer cylinder prior to storage in freezing temperatures. If an antifreeze solution is used to flush the engine and remain in contact with the strainer cylinder, use only propylene glycol based solutions. DO NOT USE ethylene glycol based solutions, as they will cause clouding of the cylinder surface.

Spare Parts

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

Description	Spare Part Code	Sample Part Number	Package	Spare Part Description	Code	Sample Part Number	Package
Top Casting	.99A	059400_99A	Boxed	Wing Nuts, Springs, & Bolt sets			
Transparent Cylinder Size 8	.99C	049300899C	Boxed	for Cover	.99L	0594DP999L	Bag
Transparent Cylinder Size 9 & 10	.99C	049300999C	Boxed	Rubber Gasket Kit Consists of:			
Basket Strainer Size 8	.99D	049300899D	Boxed	2 Cover Gaskets & 4 Body Gaskets	99R	0594DP899R	Bag
Basket Strainer Sizes 9 & 10	.99D	049300999D	Boxed	Tie Rods			
Cover with Gasket Size 8	.99E	059400899E	Boxed	Consists of (4 Each) Size 8	.99P	0594DP899P	Bag
Cover with Gasket Size 9	.99E	059400999E	Boxed	Consists of (4 Each) Size 9 & 10	.99P	0493DP999P	Bag
Cover with Gasket Size 10	.99E	059401099E	Boxed	O-Ring set for Valve Spindle	.99Q	0594DP999Q	Bag

FIG. 0594 DUPLEX INTAKE WATER STRAINERS FLOW CHARTS (ONE SIDE ACTIVE)

