



## INSTRUCTIONS FOR SALT WATER BOAT ENGINE FLUSHING

**SALT-AWAY** can be used safely on magnesium, aluminum, metal, fiberglass, rubber, plastic, impellers, seals, and all other surfaces exposed to salt. Flushing your engine's cooling system with Salt-Away removes the fresh salt then leaves corrosion inhibitors on the surface to help protect it against future salt corrosion. If your engine currently has rust and salt corrosion accumulation, Salt-Away can break apart the salt and rust corrosion to a satisfactory condition, depending on severity of the accumulation.

### ENGINE FLUSH:

To remove salt, inhibit corrosion and to break apart salt accumulation in your engine's salt water cooling system.\* Salt-Away Mixing Unit required, unless flushing from a container.\*\*

01. Remove reservoir of Mixing Unit and fill with Salt-Away. Keep track of the o-ring. Unit will not work if missing.
02. Replace reservoir. Always make sure the o-ring is seated in the groove on top of the **reservoir** before replacing.
03. Connect garden hose to handle of Salt-Away Mixing Unit. Mixing Unit is in 'Off' position.
04. Connect other end to flushing device or engine flush port.
05. Turn on water.
06. Turn Salt-Away Mixing Unit to 'Rinse' position to begin water flowing through the cooling system. Some engines require running until warm enough to open the water jackets. Other engines are flushed without warming, and some can be flushed without running. Check for correct procedure for your engine.
07. Turn Salt-Away Mixing Unit to 'Salt-Away' position. Salt-Away and water are mixed to the correct ratio for removing salt and inhibiting corrosion of the metal.
08. Flush Salt-Away through the cooling system. Watch for Salt-Away foaming action to exit the exhaust.
09. Stop flushing 30 seconds after the Salt-Away foam has appeared. If the engine is running, turn it off now.
10. Turn Salt-Away Mixing Unit to the 'Off' position after engine is off. Remove the Mixing Unit.
11. It is not necessary to flush your engine with fresh water before flushing it with Salt-Away. Fresh water does not add to the quality of the flush, but it does add time. Avoid rinsing your engine with fresh water after the Salt-Away application. Leaving Salt-Away in your engine protects against rusting and corroding, and breaks apart salt accumulation. Use remainder of Salt-Away in reservoir to wash salt off your boat and other equipment. Excellent for flushing salt out of trailer brakes.

\*Always flush engine according to manufacturer's instructions. The length of time to flush your engine does not need to adhere to the manufacturer's instructions. Those recommendations are based on using fresh water, which does not remove all the salt, even if flushed for a very long time. With Salt-Away, it is not necessary to flush more than 30 seconds.

\*\*If flushing from a container, dilute Salt-Away concentrate to be 0.5% of the total volume of the solution. In liters or US Gallons, determine the total volume of water you plan to use for flushing. Convert your volume to milliliters or fluid ounces and calculate that figure by 0.5%. The result will be the amount of Salt-Away to measure in milliliters or fluid ounces. Add it to the water. The amount of Salt-Away added to the water does not have to be precise. It is ok to round up or down to the nearest whole number.

**EXAMPLE:** 16 Liters X 1000 mL = 16,000 mL X 0.5% = 80 mL. Add 80 mL Salt-Away to 16 Liters of water.

4 US Gallons X 128 FL OZ = 512 FL OZ X 0.5% = 2.56 FL OZ. Add 2.56 fluid ounces Salt-Away to 4 US Gallons of water.

To flush engine, insert the lower unit into the Salt-Away solution making sure the intake holes are below the water line. Follow Steps 8 & 9 above.

### SALT-AWAY'S SALT ACCUMULATION REMOVAL AND ENGINE OVERHEATING PROGRAM

**DIRECTIONS:** Flush your engine according to the Engine Flushing Instructions 4-6 times in sequence, waiting at least 24 hours between flushes. **If your engine is overheating**, run the engine only long enough (5-10 seconds) to get the Salt-Away solution through the cooling system. Watch for the foaming action to exit the exhaust, then shut it down. If using the Salt-Away Mixing Unit while flushing an engine with a thermostat that has to run longer to open the water jackets, turn the valve to 'Rinse' until the temperature reaches a level that opens the water jackets and is safe to flush for 10 seconds. Turn the Mixing Unit to 'Salt-Away' for 5-10 seconds, then turn off the engine. During the 24-hour wait, Salt-Away is busy breaking apart the accumulation. The next day while performing the next flush, all the salt that has broken apart over night will flush out.

Continue to flush daily as described above, until the over-heating situation has stopped. When the overheating has stopped, it is not an indicator that all the salt has been removed. It is ok to begin boating again, but the engine must be flushed each time the boat is put away. When the engine is flushed each time, new salt never accumulates, and eventually all the old salt is broken down, and your engine will stay free of accumulation.



### INSTRUCTIONS FOR EXTERIOR WASHING

For removing salt from boats, trailers, personal watercraft, wet suits, fishing gear, diving gear, sail boats, sails, towing vehicles and other equipment. Salt-Away Mixing Unit and Garden Spray Nozzle required.

1. Remove reservoir of Mixing Unit and fill with Salt-Away. Keep track of the o-ring. Unit will not work if missing.
2. Replace reservoir. Always make sure the o-ring is seated in the groove on top of the reservoir before replacing.
3. Connect garden hose to the handle of the Salt-Away Mixing Unit. Mixing Unit should be in 'Off' position.
4. Attach spray nozzle onto other end of Mixing Unit.
5. Turn on water.
6. Turn Mixing Unit to 'Salt-Away' position. Salt-Away is automatically diluted at the correct ratio during use.
7. Spray Salt-Away onto your boat, personal watercraft, trailer, towing vehicle and other equipment. No need to scrub.
8. Rinsing off equipment with fresh water before or after the Salt-Away treatment is not necessary. Leaving Salt-Away on the equipment after the application will allow the solution to drizzle and drain into areas that stay wetter longer and where pooled salt is more likely to cause corrosion from the inside-out. Salt-Away permeates through hardened, accumulated salt and the corrosion inhibitors in the product become effective when the equipment is not in use. Salt-Away does not leave spots or streaks and does not cut or strip wax or other coatings.

*If procedures are followed as described above, the Mixing Unit application will flush an engine and wash off a boat and trailer up to about 38 feet (11.58 meters) in length. Tip: Using quick-connector devices are convenient for Mixing Unit connections.*

#### SALT-AWAY MIXING UNIT RESERVOIR COVERAGE INFORMATION

##### SALT-AWAY MIXING UNIT

Part Numbers: SAM, SAM12-IA

Water pressure at testing site measured 60 psi (4.22 Kg/cm)

##### HOSE END SPRAY NOZZLE APPLICATION

Reservoir Size	P/N SAM 6 FL OZ (177 ML)	P/N SAM12-IA 12 FL OZ (355 ML)
Approx. Dispensing Time	8 min 10 sec	17 min 09 sec
Approx. Volume Dispensed	22 US Gal (83 L)	45 US Gal (170 L)
Coverage	Approx: 1,450 ft <sup>2</sup> (134.71 m <sup>2</sup> )	Approx: 3,100 ft <sup>2</sup> (288.00 m <sup>2</sup> )

#### PRESSURE WASHER APPLICATION - EQUIPMENT OUTPUT: 1800 PSI (126.58 KG/CM)

Reservoir Size	P/N SAM 6 FL OZ (177 ML)	P/N SAM12-IA 12 FL OZ (355 ML) (Horizontal Position)	P/N SAM12-IA 12 FL OZ (355 ML) (Vertical Position)
Approx. Dispensing Time	44 min 45 sec	1 hr 40 min	1 hr 35 min
Approx. Volume Dispensed	55 US Gal (208 L)	120 US Gal (454 L)	117 US Gal (443 L)
Coverage	Approx: 8,200 ft <sup>2</sup> (761.80 m <sup>2</sup> )	Approx: 18,200 ft <sup>2</sup> (1,690.83 m <sup>2</sup> )	Approx: 17,250 ft <sup>2</sup> (1,602.58 m <sup>2</sup> )

The difference in area coverage is due to the speed rate at which the solution is dispensed.

**If the 12 fl oz (355 ml) reservoir is attached to a mixing unit positioned to remain stationary while in use, better results are achieved if the unit is positioned horizontally.**

#### THE SALT-AWAY MIXING UNIT

**WARNING:** Do you know what your water pressure is? Using the Salt-Away Mixing Unit with water pressure above 60 psi (4.22 Kg/cm), or uncontrolled water pressure that can spike above 60 Psi (4.22 Kg/cm), can cause breakage to the Unit. Use of a pressure regulator (reducer) pre-set to 40-50 psi (2.81-3.52 Kg/cm) to ensure pressure below 60 psi (4.22 Kg/cm) is highly recommended. Warranty does not cover failure due to high water pressure.

To see some examples of water pressure regulators that reduce water pressure to pre-set levels, below are 2 website addresses where some examples are shown. There are other sites where these items are displayed. Disclaimer: Salt-Away Products, Inc. has no affiliation with these sources.

<http://www.walmart.com/ip/Camco-Brass-Water-Regulator/14504323>

<http://www.amazon.com/Camco-40053-Brass-Pressure-Regulator/dp/B000BQ7WH2>