



# BTP12 Two Stage Electric Pump

Instruction & Owner's Manual

**Sea Eagle Boats Inc.**  
19 N. Columbia Street, Suite 1  
Port Jefferson, NY 11777  
1-800-748-8066

**November 2022**

## Sea Eagle Warranty

Sea Eagle products come standard with a 3 year warranty against manufacturing defects.

Complete warranty details can be found at [SeaEagle.com/Warranty](http://SeaEagle.com/Warranty).

If you receive a damaged item, please call the shipping carrier to report the issue. Do not return damaged merchandise until it has been inspected by the carrier. Sea Eagle will be notified by the carrier when they have completed their inspection and if necessary, Sea Eagle will arrange for the repair or replacement of damaged merchandise.

## Contact Us

Unlike many other companies today we pride ourselves on answering the phone and helping you with any concerns, questions or special ordering needs that you may have! Feel free to give us a call at **1-800-748-8066** and we will be happy to talk with you! Our business hours are Monday to Friday from 9AM to 5PM, EST.

### Sea Eagle Boats Inc.

19 N. Columbia Street, Suite 1  
Port Jefferson, NY 11777  
1-800-748-8066  
[Staff@SeaEagle.com](mailto:Staff@SeaEagle.com)

## BTP12 Two Stage Electric Pump

BTP12 is a very efficient two stage pump. "Two stage" indicates that it is two pumps in one: a high volume fan that automatically switches to a high pressure piston pump. The pump can also be used as a deflator. Use with a Sea Eagle Battery Kit or any 12 volt battery with 7 amp hour or more rating, including auto and marine batteries.

Because pump draws 20 amps of current, it cannot be used with a vehicle's accessory outlet.



*Warning:* Do not run pump more than 20 minutes continuously as this can cause overheating and damage.



*Warning:* Use pump away from the water and protect from rain to avoid electrical short.



*Warning:* Do not leave running unattended.



*Danger:* Keep out of reach of children.



*Danger:* To avoid injury from moving parts, engine should not be running when connecting to car or truck battery.



*Danger:* Do not connect pump if you smell gas. A spark could ignite a fire.

### Specifications: BTP12 Inflator/Deflator with Manometer

Electrical Draw: 12 volts, 20 amps

Maximum Pressure: approx. 14.5 psi (1 bar)

Air Output: Stage 1: Low Pressure Mode, 450 L/min Turbine (Fan)

Stage 2: High Pressure Mode, 160 L/min Piston Pump

Manometer Automatic Stop

Working Cycle: 20 minutes on/20 minutes cool down



**BTP12**  
Includes the storage bag with multiple compartments, alligator clips and inflation hose with adapter.

**Adapter:**

Hook-In style adapter is intended for use with recessed valve with a stem.



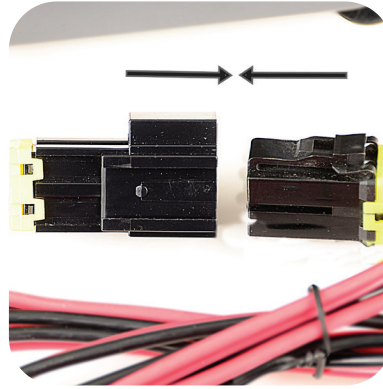
Groove in red gasket must be facing outward. Pull gasket off and reverse it if necessary. Gasket may be stiff upon first use, stretch or kneed gasket to soften it.



Screw the other end of hose onto **red** inflation port on top of pump.



**Power Cord**  
Use power cord to connect pump to a 12v battery. The middle compartment of bag is for stowing power cord. A passthrough hole in the bag divider allows for connection to the pump.



Push wire quick connect into pump quick connect until they click together. To disconnect, press the catch piece on top and pull apart.



**Auto or Marine Battery**  
Connect the black clamp to the black (-) terminal or a metal grounding point. Connect red clamp to red (+) terminal. Refer to auto's owner's manual for details about the battery. **Remember: "Red to Red, Black to Black."**

If needed, split the wire more by pulling the clamps apart. The black band can be slid down too.

**Warning:** Check carefully, on some batteries it can be difficult to see the markings. Most automobile red (+) terminals are clearly marked.

**Danger:** Connecting to the wrong terminals could cause wires to get hot. Do not grab hot wire, clamps are non-conductive plastic and should remain cool. If in doubt, knock clamp off with a shoe or other non-conductive item or pull pump by its hose.



**Sea Eagle Battery Kit (Optional)**

- 1 - Quick Connector
- 2 - Charging Port
- 3 - Fuse protection



Place the battery in the middle compartment of the carry bag. A passthrough hole in the bag divider allows for connection to the pump. Push quick connectors together. **1**




**Set pressure**

Turn dial until pointer indicates desired pressure. Photo shows 3.2 PSI. Red numbers are PSI, black numbers are bars (metric). Sea Eagle pressure settings are listed to the right, or check boat owner's manual for correct setting.



Plug the charger into an outlet (120v). The LED indicator light will show green. Insert the charger wire into the battery charging port **2**

 **Warning:** Use only charger supplied with battery.



Press the ON button to begin inflation.

Pump will make a whining sound then a piston sound.

**The pump automatically stops once the pressure is met. Do not turn off pump.**



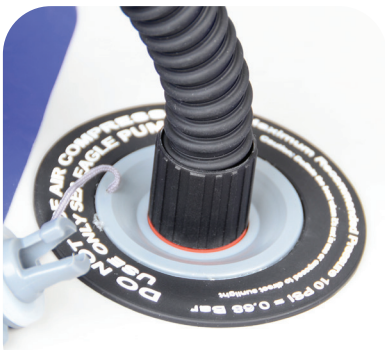
LED will show red when the battery is charging. Charger switches to float (minimum charging) when battery is near full. Light switches to green during float charge. Charging time is usually half-an-hour, but may take three or more hours.



**Deflation**

Screw hose onto gray deflation port. Insert adapter into chamber and press the ON button.

Press OFF button when done (does not automatically shut off during deflation).



**Recessed Valve**


Valve stem must be in UP (valve closed) position.

Insert adapter into the valve and twist to the right.

The "hooks" on the adapter will lock it into place.



Keep pump in carry bag to make transportation easy and to protect the pump from sand.

 **Warning: Do not run pump for more than 20 minutes. Allow 20 minutes for cool down before restarting.**

### PSI Settings for Sea Eagle Boats:

3.2 PSI for: FastTracks, Explorers, PaddleSki, 285fpb, STS10, FoldCat & Sport Runabouts

10 PSI for: Travel Canoe, RazorLites

5-10 PSI for: RescueBoard

12-14.5 PSI for: SUPs, FishSkiff & FastCat

### Automobile Battery Accessibility

Some autos, like Jeep Grand Cherokee, have convenient positive and negative studs so it is not necessary to clamp onto the battery. On other autos, like Ford Escape, the negative terminal is inaccessible so the negative clamp must be attached to a steel body component like the nearby strut tower nut. Some auto batteries are difficult to access; the Toyota Prius' battery is in the trunk, and some imports have the battery under the rear seat.

### Dedicated Battery

A 12 volt, 7 amp hour battery used in some home alarm systems and emergency lighting systems will work well as a battery for the pump. These may be available to buy locally or online. If you purchase a battery and charger, the power wire with clamps must be used. The battery terminal tabs may have to be bent upward on the battery for the clamps to work.

An off the shelf battery & charger may be inexpensive compared to Sea Eagle's battery and charger but they are less convenient.

### Additional Info: Sea Eagle Battery Kit

Read the manufacturer's Operating Instructions for the Battery Charger which are including the battery shipping box.

When tested with a voltmeter, a properly working charger will show 14.7v output until a resistance is placed against it.

Unplug charger from wall when not connected to a battery.

There is enough capacity in a charged battery to fill two or more inflatables.

Pump will work with charged battery, it will not work off charger alone.

### Taking Care of the Sea Eagle Battery

The battery is a lead dry-cell battery. Fully charge before first use. Regular discharge and recharge is good for the battery.

Recharge the battery as soon as practical after each use.

Leaving the battery drained causes permanent damage.

Charge occasionally during a long storage period.

Do not run the battery all the way down, doing so will shorten battery life.

### Troubleshooting

**Problem:** *Pump does not shut off when inflating.*

Remove hose. Connect pump to power source. Turn on and cover red (out) port to block airflow. If pump shuts off, it is in working condition. If pump does not shut off, call Sea Eagle Customer Service, replacement is needed.

**Problem:** *Pump starts off smoothly, then makes rattling noise.*

First stage sounds like a vacuum cleaner, second stage is a small piston pump. If pump progress from fan to piston, it is working correctly.

**Problem:** *Indicator needle does not move for a long time.*

The pump runs for a period without the needle moving. Needle only begins to move when the chamber is full enough to provide back pressure.

**Problem:** *Pump smells like it is burning.*

Turn pump off and do not try to restart. Unplug from power supply. Call Sea Eagle Customer Service.

**Problem:** *Pump no longer pumps air and is making unusual noise.*

Pumping mechanism is broken, call Sea Eagle Customer Service.

**Problem:** *Friction Adapter Does not stay in opening.*

Holds better as valve opening gets roughed up from use.

**Problem:** *Battery Charger Light flashes red.*

A red flashing light usually means a problem with the battery. Leave it plugged in for a while to see if it will accept a charge. Flashing light may also mean that something minor is wrong with the LED but the charger works. Call Sea Eagle if it does not accept a charge.

**Problem:** *Battery Charger Light Stays Red*

If the charger and battery have been plugged into a wall outlet for a period time, but the light stays red, unplug and replug the charger wire. If the light changes to green and stays green, fast charge is complete. No action is needed.

**When calling Sea Eagle Customer Service, please have pump, hose, adapter and power supply available for testing and troubleshooting.**