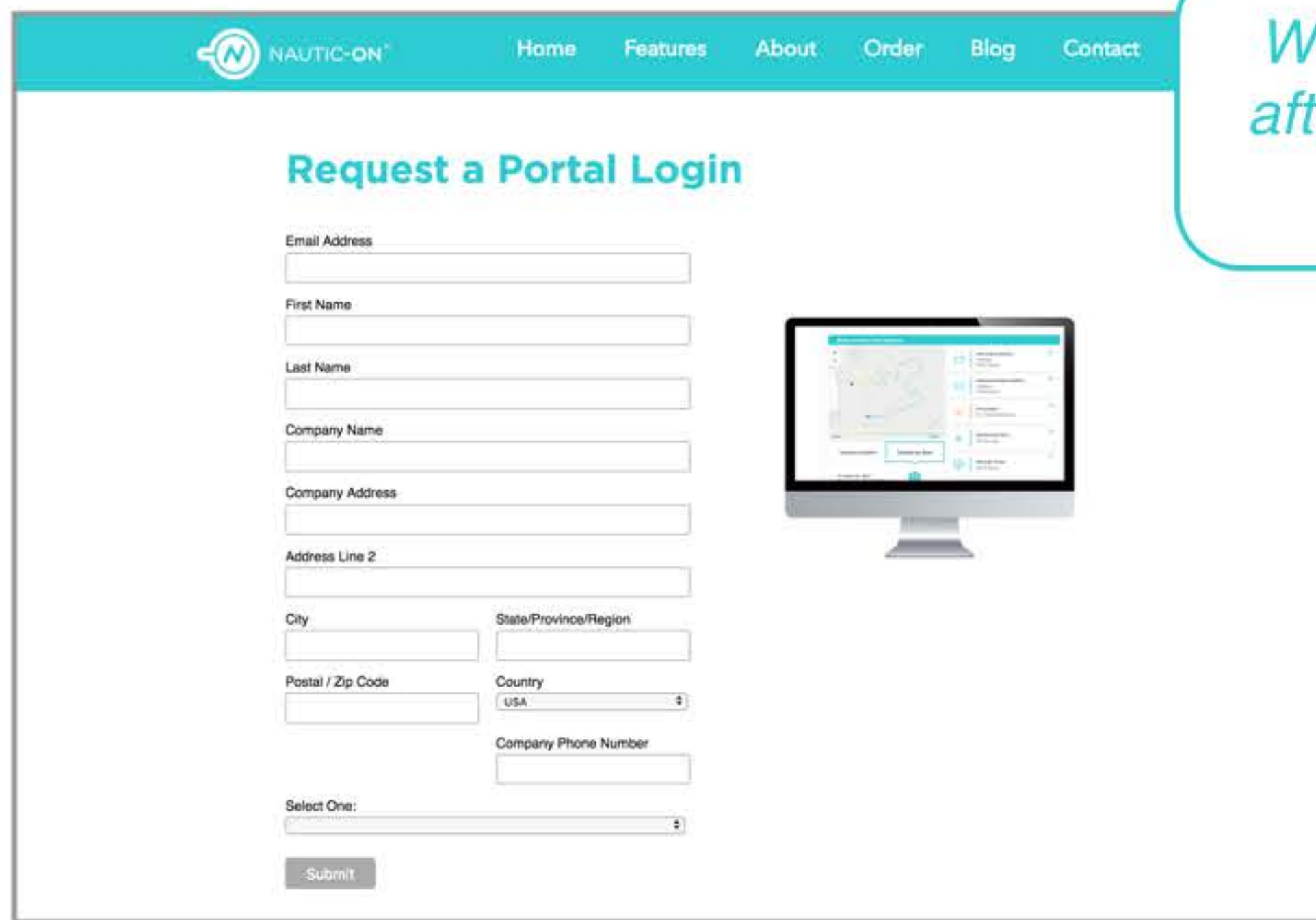




For Marine Service Providers:

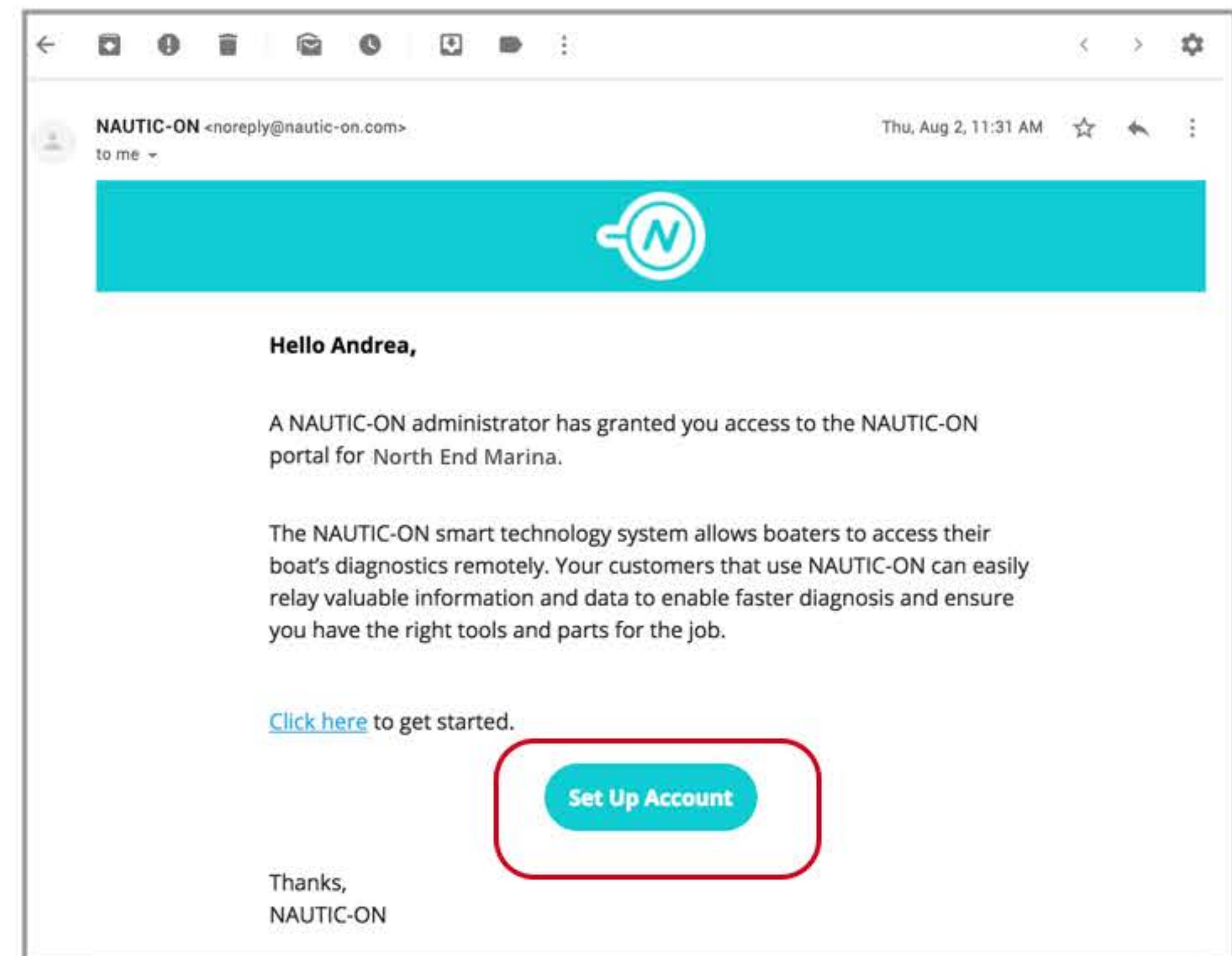
First, get set up in the NAUTIC-ON Service Provider Portal



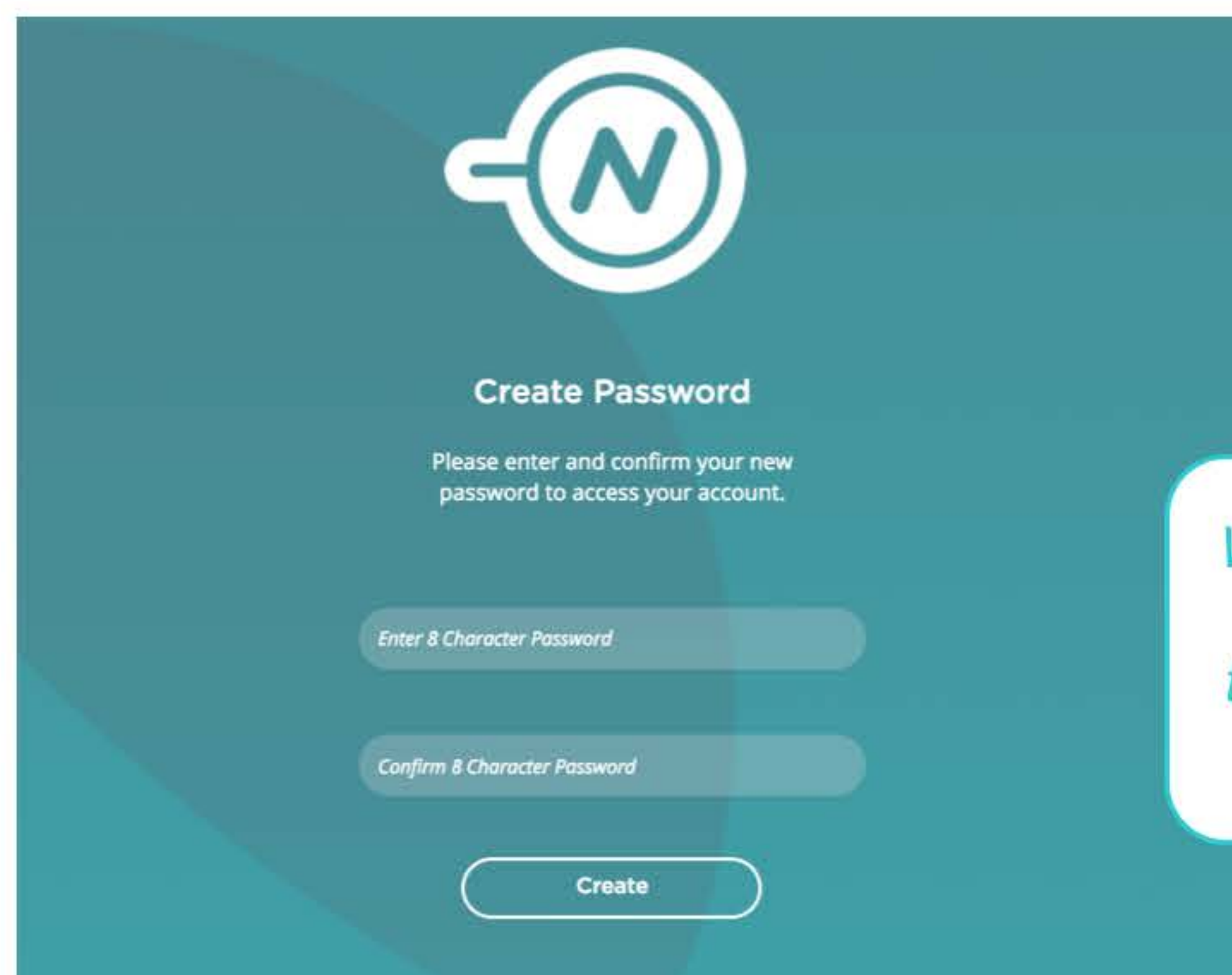
The registration form is titled "Request a Portal Login". It includes fields for Email Address, First Name, Last Name, Company Name, Company Address, Address Line 2, City, State/Province/Region, Postal / Zip Code, Country (USA), and Company Phone Number. There is a "Select One" dropdown menu and a "Submit" button. A small image of a computer monitor displaying the NAUTIC-ON interface is shown next to the form.

We will contact you after we review your request.

1. Go to: nautic-on.com/register to request access to the NAUTIC-ON Service Provider portal. Make sure you provide your business email address that you check regularly.



2. Once we add you and your business to the Service Provider portal, you will get an email from NAUTIC-ON. Click "Set up Account" to create your password in the portal.



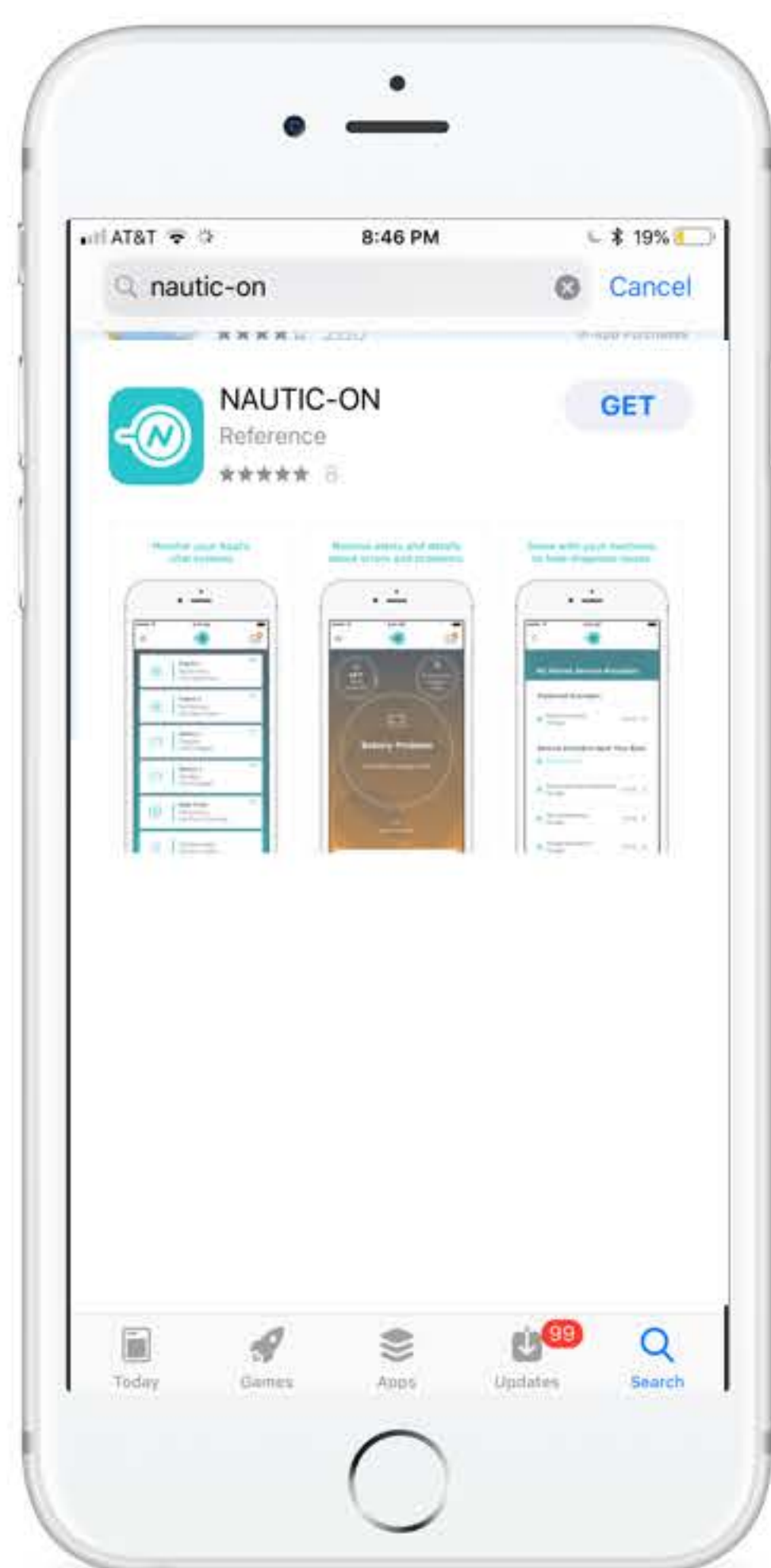
The "Create Password" form is on a teal background. It features the NAUTIC-ON logo at the top. Below the logo, it says "Create Password" and "Please enter and confirm your new password to access your account." There are two input fields: "Enter 8 Character Password" and "Confirm 8 Character Password". A "Create" button is at the bottom.

When installing new hardware, you will also need to access the NAUTIC-ON app. Detailed steps on next page.

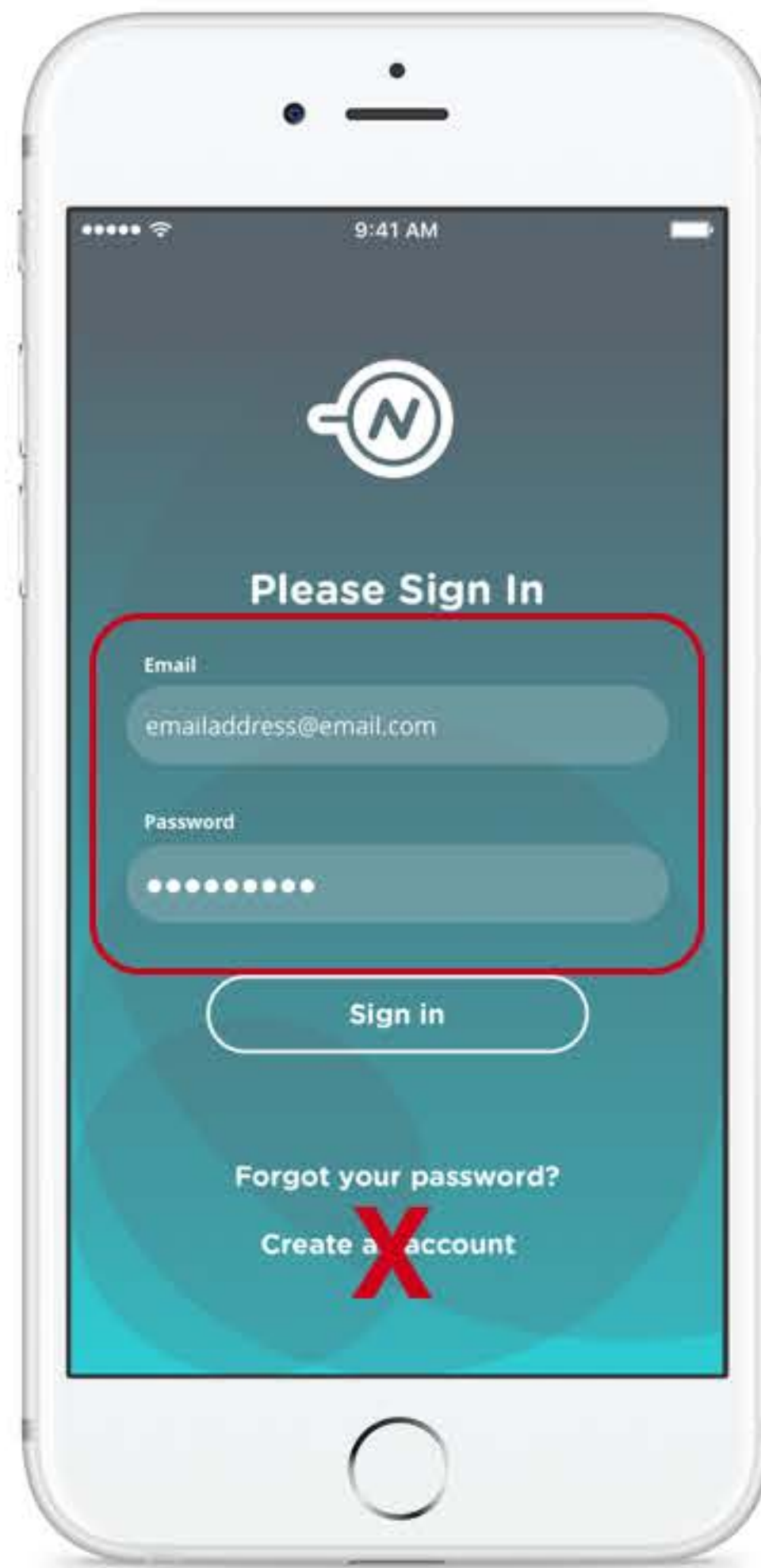
3. Create your password (minimum 8 characters), and click "Create." With this Service Provider portal account, you can view the location and status of your NAUTIC-ON enabled boats.

For Marine Service Providers:

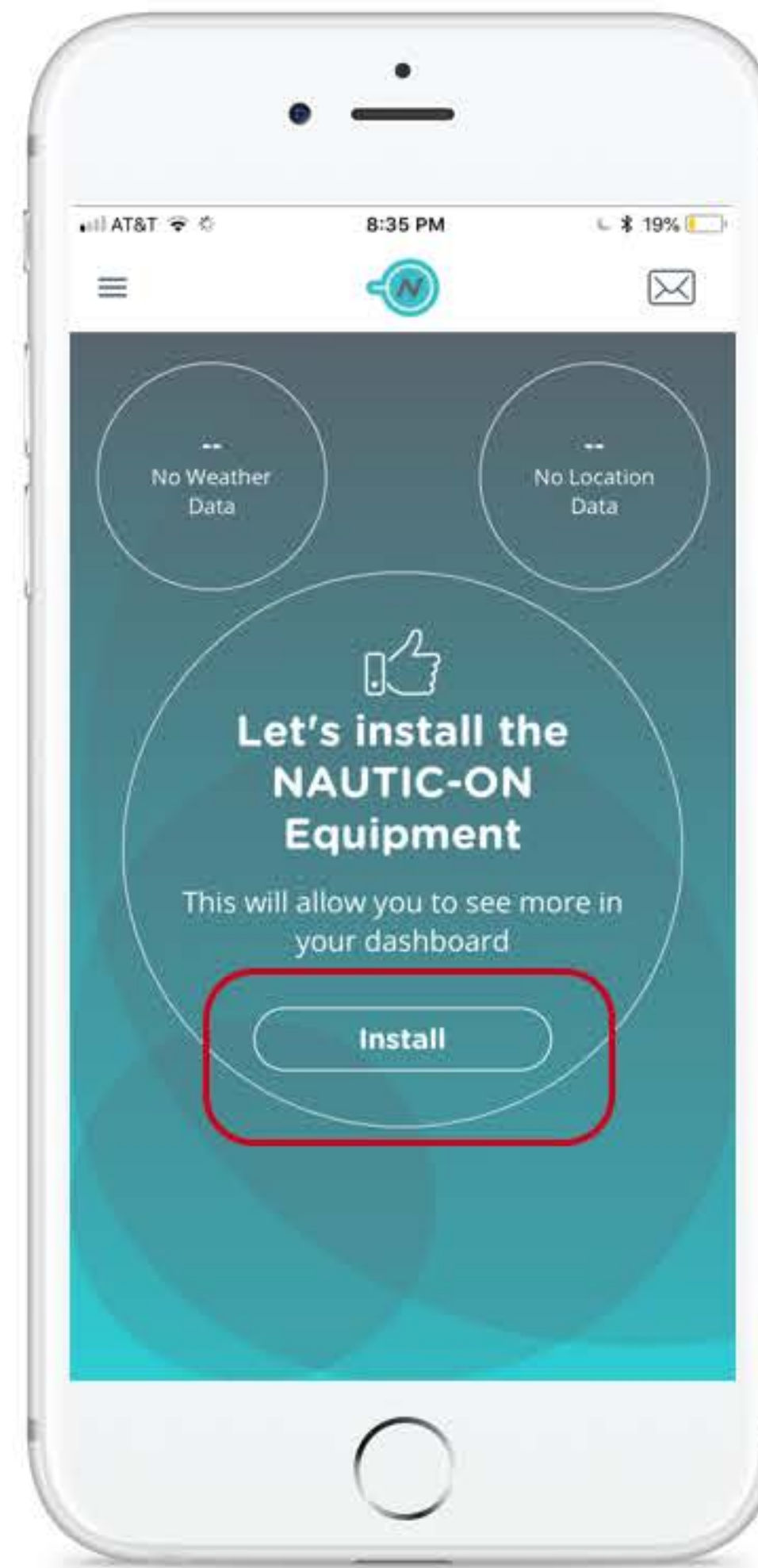
Login to your Service Provider account in the NAUTIC-ON app



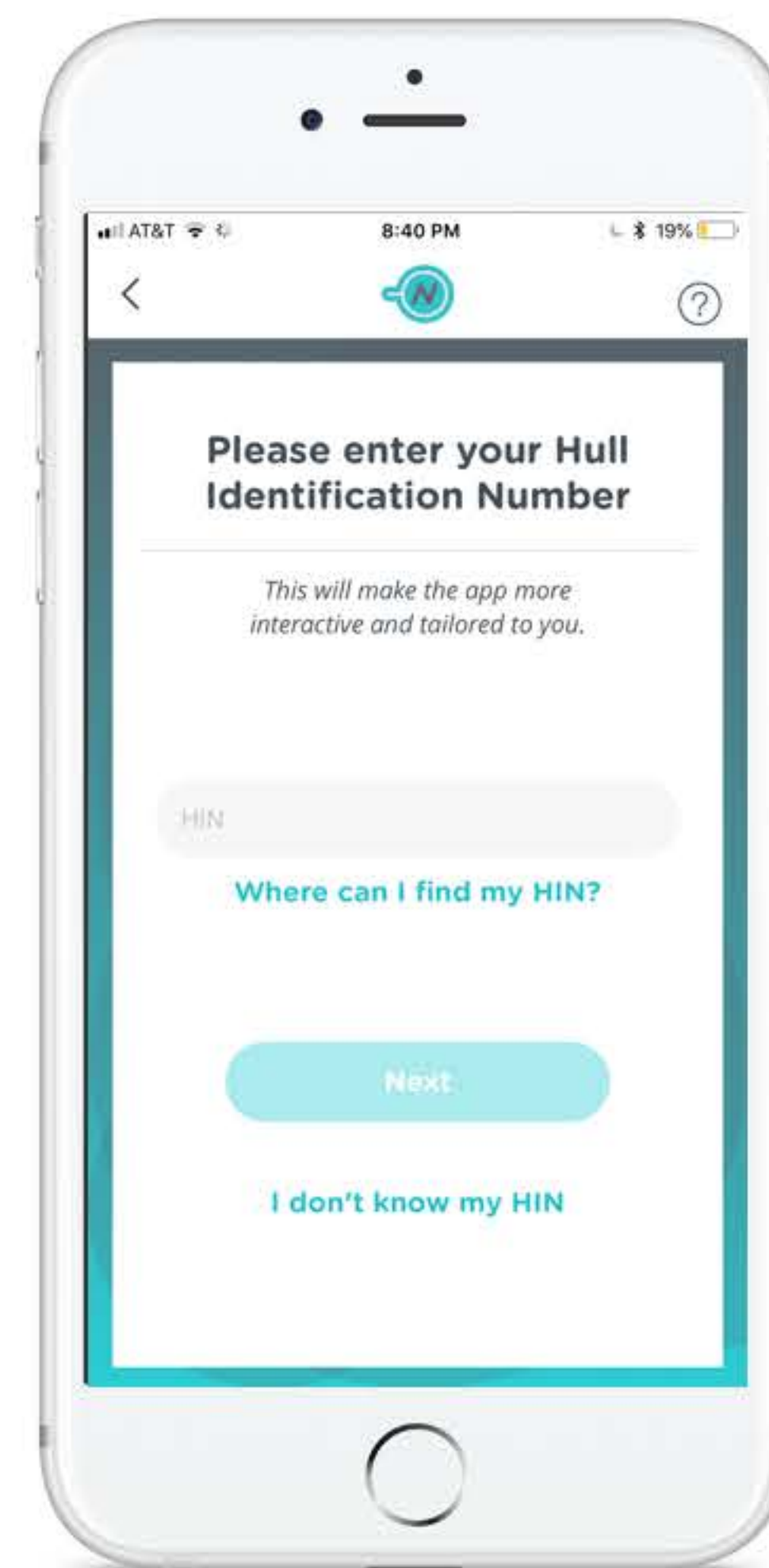
1. Download the NAUTIC-ON app to your phone



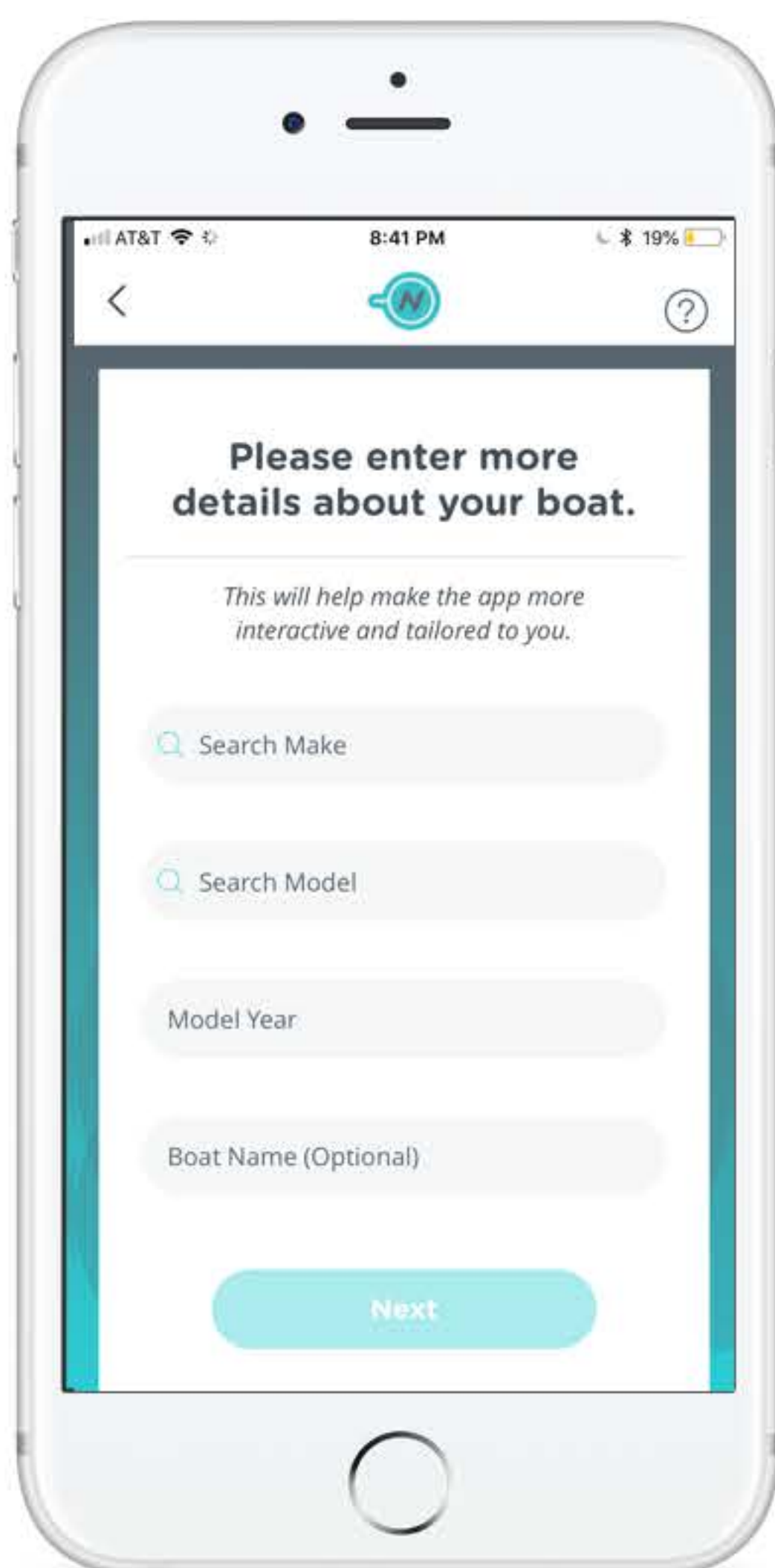
2. Sign in with the same email and password you created in the portal. Do **NOT** create an account; that is only for boat owners.



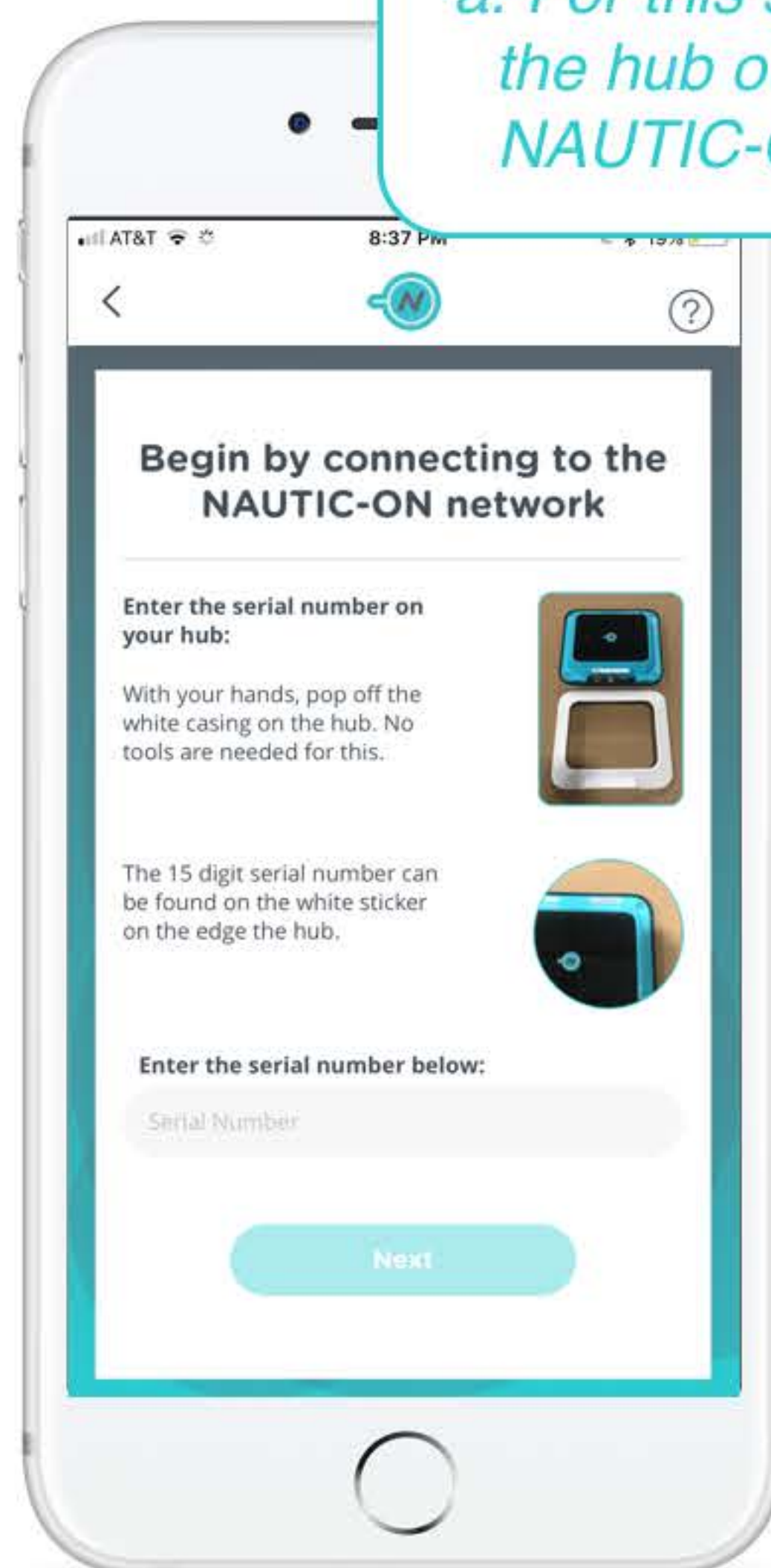
3. You will land on the dashboard. Tap "Install" to begin the boat set up.



4. Enter the customer's boat HIN, then tap "Next."



5. Select make and model, then enter model year and tap "Next."



6. Enter hub serial # and click "Next."

a. For this step, take the hub out of the NAUTIC-ON box.

b. With your hands, pop off the white casing on the hub. No tools are needed for this.



c. The 15 digit serial number can be found on the white sticker on the edge the hub.

Follow along with these instructions to guide you through the remainder of the installation process.

How does the NAUTIC-ON system work?

The NAUTIC-ON system (a hub and a set of sensors and accessories) enables wireless monitoring of boat location and key systems. Data from the hub is transmitted via cellular network (like a phone).

You will need an alternative cable to hook up the NAUTIC-ON system. Please give us a call and we will ship it to you.

 **877-235-5239** or **support@nautic-on.com**

Hub (the “brain” of the system) is the central part of the system that monitors your boat.



The hub should be installed using recommended cables and mounted with adhesive backing. We will guide you through specific installation instructions on the following pages.

GPS antenna allows the hub to report boat location.



The best location for the antenna is highest spot near the hub, but not near metal components.

Battery Sensor(s) monitor battery voltage, current and temperature.



You will connect sensors to each battery or battery bank on your boat. In the following guide, we will help you determine the configuration of the batteries, posts and terminals.

Bilge Pump Sensor(s) monitor run time and frequency of the bilge pump.



The bilge pump sensor will be spliced into the existing bilge pump wiring. You will need to find a safe space to mount the sensor above the height of the bilge pump in the bilge area.

Tools you will need



10 mm &
1/2 in Sockets



Socket
Wrench



Allen Wrenches
(metric 5 & 10)



Flathead
Screwdriver



Phillips
Screwdriver



Diagonal Cutters
(wire cutters)



Flashlight



Contact
Cleaner



Multimeter



Wire Brush

What's in the box?

In the NAUTIC-ON box, you will find the hub and sensors, along with additional parts and accessories you may need during the installation.

Call us for an alternative cable

If the boat does not have a Mercury engine, you will need an alternative cable. Please give us a call and we will ship it to you, 877-235-5239.

Hub installation for Non-Mercury engine

You will need alternative cables to hook up the NAUTIC-ON system. If you haven't already, please give us a call and we will ship them to you. 877-235-5239 or Email us: support@nautic-on.com

Continue with these steps on your boat once you have received the alternative cables from us.

Perform safety steps

1. Disconnect from shore power

During this process, disconnect from shore power or onboard charger before you disconnect the battery.

2. Use caution with batteries

As a best practice, it's important to turn off any power while working with batteries and use caution. Batteries can always arc.

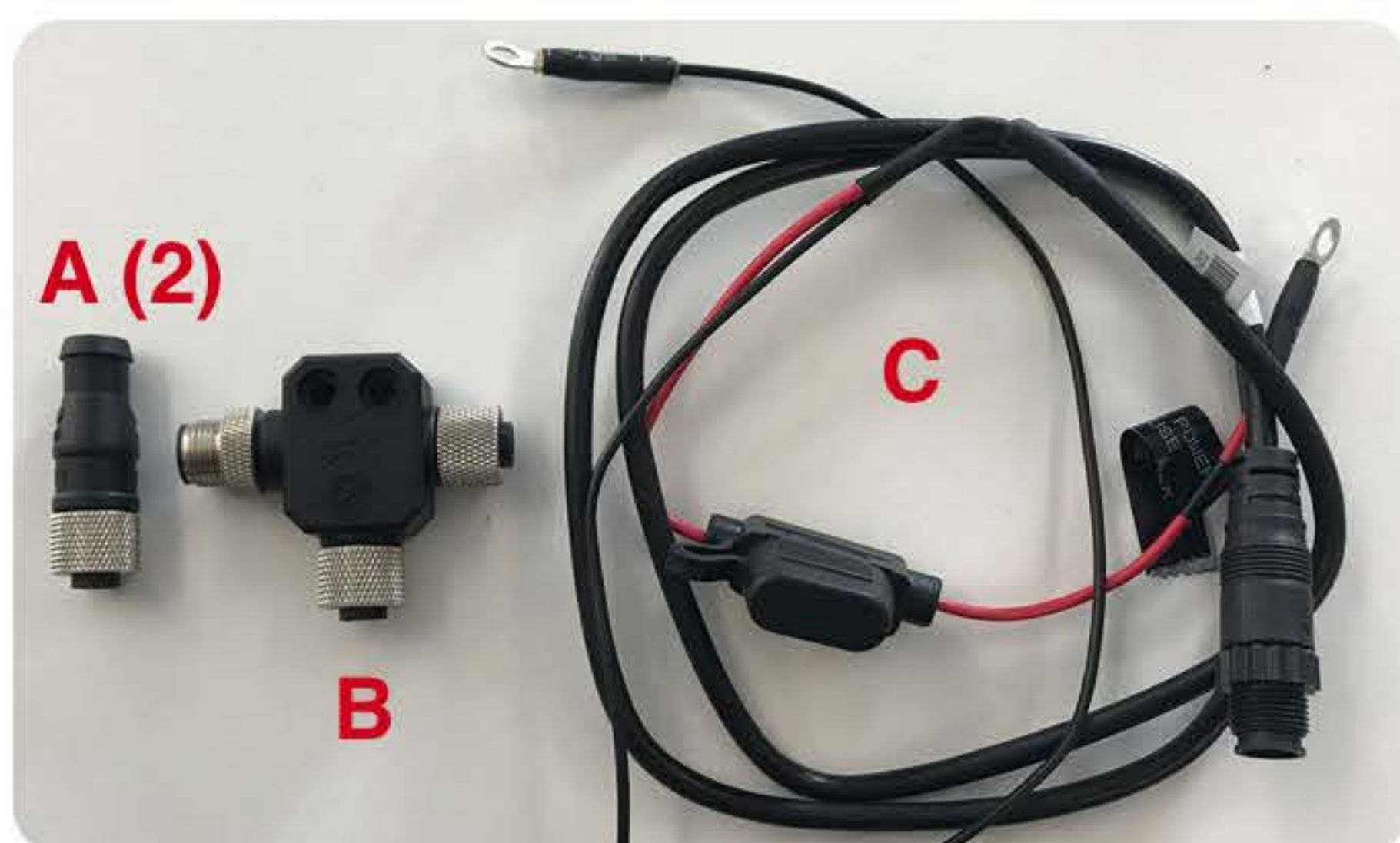
3. Remove fuses from NAUTIC-ON sensors

Remove the NAUTIC-ON fuses before you work with equipment that receives or creates power. Voltage spikes might come from disconnecting the battery. Put them back when everything is done.

Getting power to the hub

When connected to clean power, the hub will provide power to the NAUTIC-ON system even when the engine is keyed off.

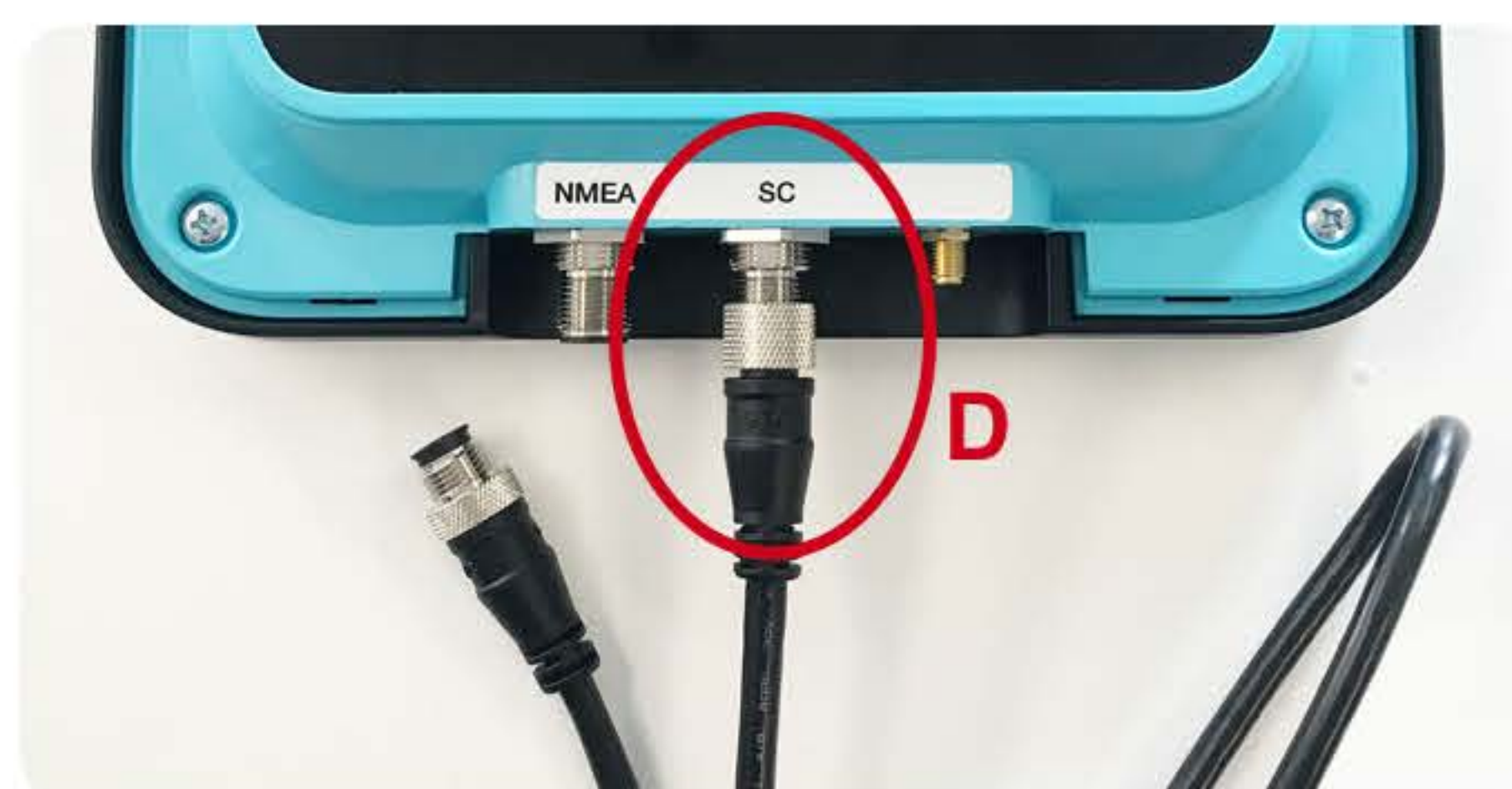
4. We sent you some alternative cables. In the white box "N2K starter kit," you will see the following parts:



We also sent you an additional NMEA 2000 cable. P/N# **N606062**



5. Connect one end of cable **D** into the SmartCraft (center) port on the hub.



6. Connect the other end of cable **D** into the top right port on part **B**

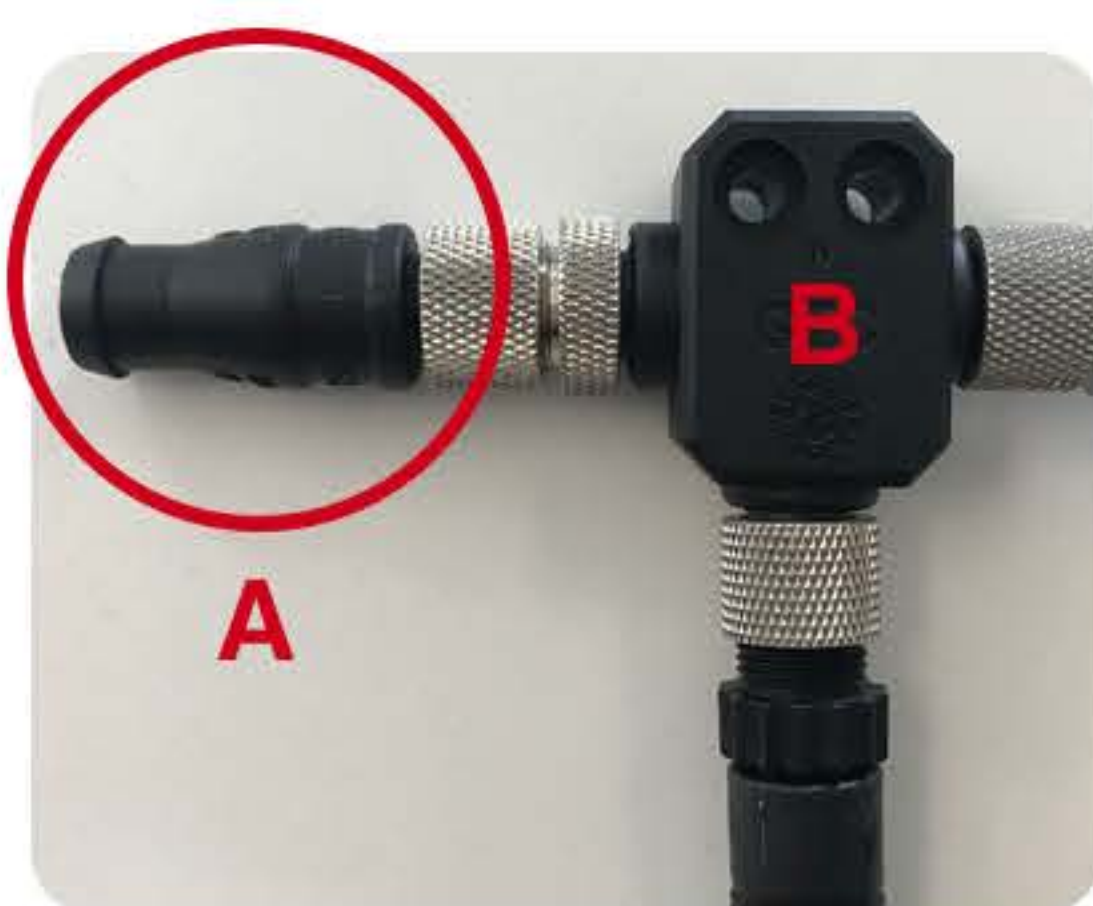


Hub installation continued...

7. Insert the round connector on cable **C** into the bottom port on part **B**.



8. Connect part **A** to the open port on part **B**. You will have an extra, unused part **A**.



9. On cable **C**, connect the ring terminal on the red wire to a clean power point.



Then, connect the ring terminal on the black wire to a neutral or ground point.

When successfully powered on, you will see a green light on the hub.

Install the NMEA 2000 Cable

Engine data will be monitored by connecting to the NMEA 2000 / digital switching system on your boat.

10. Does the boat have digital switching (NMEA 2000)? If it does, then we can continue to install the NMEA 2000 cable.



NMEA 2000 cable
P/N# N606062

If the boat does not have digital switching, then proceed step 19 on the next page.

11. Connect one end of the included NMEA 2000 cable into the left port (NMEA) in the hub.



12. Then, connect the other end of the NMEA 2000 cable into a NMEA T-connector behind the helm. Here is an example of a NMEA T-connector:





Install the GPS antenna

13. Plug the GPS antenna connector into the Hub port.



14. Find a high spot near the hub to attach the antenna, ideally away from metal surfaces for best reception.
15. Remove adhesive backing and press firmly for 30 seconds. Keep pressure for a strong bond.

Mount the hub

16. Identify a flat, smooth surface to mount the hub (while it can be oriented in nearly any fashion, avoid placing it with the connections facing up — water could drip in.)

For the most secure mounting, use the adhesive on the back of the mounting bracket. Using the 3M primer stick first on the the surface will permanently mount the hub. You can use screws if you prefer, but our testing shows it is not needed.



17. Clean the mounting location well
(*TIP: Hold mounting bracket in front of surface and pencil in the corner holes to provide a guide for cleaning and primer application*)
18. Crack center of the 3M primer to “activate” it. Use the applicator to spread the primer over the desired mounting surface.



19. Remove the backing from the foam-backed adhesive and press the hub in the location for 30 seconds. Keep pressure for a strong bond.
20. Route and secure harness with a cable tie every 10 inches along whatever path is already established.



Prepare for battery sensor installation

What's in the box



Battery sensor



Battery bridge adaptor



Battery bridge



Battery post adaptor



Metric hex nut



Metric hex washer



Terminal extender



Zip ties

Make sure the boat's engine and electronics are powered off before installing the sensors on the batteries.

What to expect

In order to install the battery sensors, you must familiarize yourself with the boat's battery system. The boat may have a single battery used to both start the engine and power accessories.

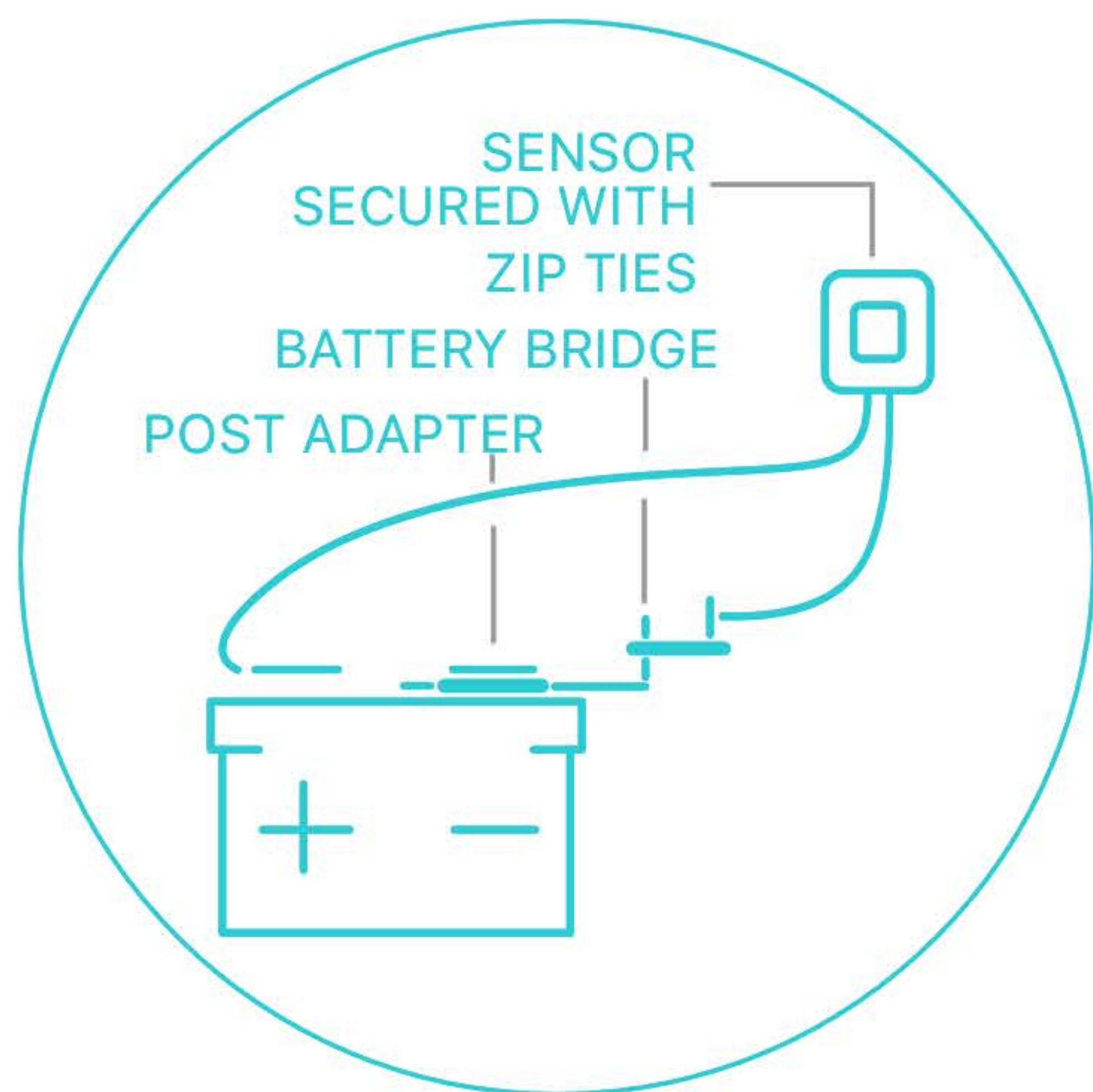
However, many boats will have multiple batteries. Some batteries could be connected together creating battery banks.

For installation purposes, each grouping of batteries with a common positive cable or an individual battery with the positive cable not connected to another battery will be considered a bank. We recommend that a different sensor be installed on each bank.



Install the battery sensors

Verify engines, electronics, and battery switches are turned off.



BATTERY SENSOR SETUP

1. Remove all connections from battery posts.
2. Find a location to mount sensor with zip ties. This location should allow the wire harness to be within reach of the battery.
3. Identify the negative post on one of the batteries in the bank.
4. Place the battery bridge onto the negative post, but do not tighten yet. If you do not have an SAE post, use the battery post adapter.
5. Mount the sensor using included zip ties.
6. Route the positive cable with the ring terminal to the positive post of the battery that you are mounting on the battery bridge. Loosen the positive terminal. Place the ring terminal the positive post and retighten the nut.
7. Stack negative terminals onto the new battery bridge post, biggest to smallest. Add the additional ground terminal from the sensor. ABYC recommends that no more than 4 wires be on a single terminal post. If your application has more than 4, please use the included terminal extender block to ensure you have no more than 4 wires (for ABYC compliance).
8. Arrange terminals to lie flush without gaps.
9. Using the included metric nut and washer, tighten battery bridge to the negative post.
10. Reinstall fuses.

Repeat these install steps for each battery or battery bank on the boat.



Prepare for bilge pump sensor installation

What's in the box



Bilge pump sensor



Push-in wire connectors



Zip ties

What to expect

You will be inserting the NAUTIC-ON bilge sensor into the control circuit for the bilge pump. This will involve cutting and splicing wires.

Determine your bilge configuration

The installation instructions will vary based on how the bilge is set up on the boat. Please answer the following questions about the bilge pump(s) and keep the responses in mind as you follow the steps on the next page.

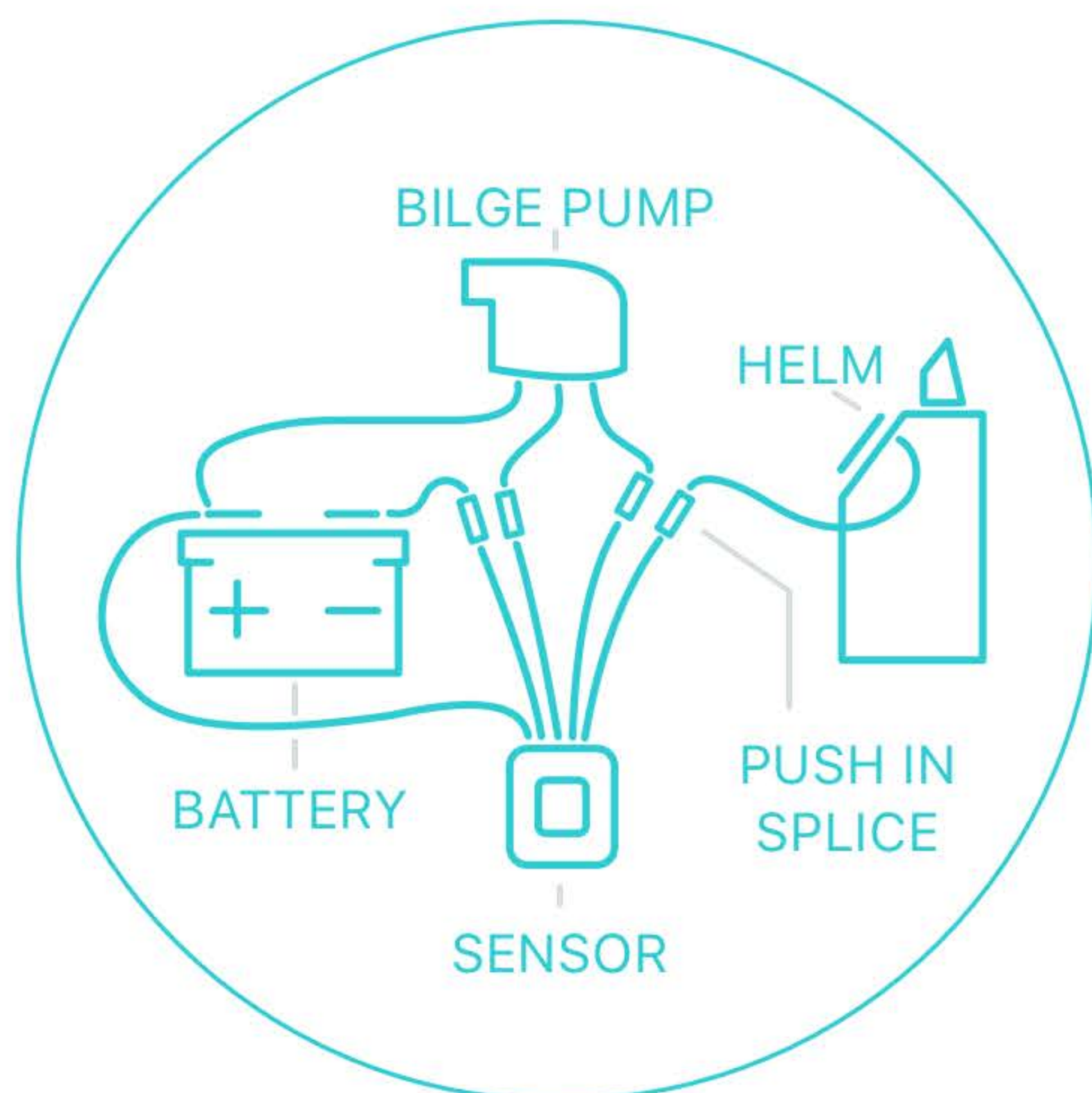
*Is the bilge float **internal** or **external**?*




*Is there a **manual switch** controlling this pump?*



Install the bilge pump sensors



1. Disconnect the battery for the bank connected to the bilge pump. Visually inspect the connection to ensure that it is not corroded or dirty. Clean with wire brush and contact cleaner if needed.

2.  If there **is** a manual bilge pump switch, check that all manual bilge pump switches are set to the OFF or AUTO position.

3. Typically there should be three (3) wires with the bilge pump system; a neutral wire, a 12v clean power wire (always on), and a switched power wire from your helm control switch.



If there is **not** a manual bilge pump switch, there may be only two (2) wires for a high water pump.

4. Locate the neutral wire coming from the pump. It is typically a black wire that may have a stripe. Find a suitable place along this wire where you will splice in the sensor. Ideally this would be above the pump where it is less likely to be under water.
5. Cut the neutral wire and strip the insulation on each wire 3/16-1/4" from the end. Using the provided push-in splices, insert each stripped wire end into separate splices.
6. With the sensor wires, locate the black with yellow stripe wire marked "TO BILGE." If the end is not stripped do so now. Insert the wire end into the splice on the wire coming from the bilge pump.
7. Locate the black sensor wire marked "TO HELM." Insert this wire into the other splice.

8.




If there is **not** a manual bilge pump switch, the two brown sensor wires will not be used and should be capped to prevent any potential shorts.

*Skip to step 14 on the next page (connecting the **red wire**)*

Bilge sensor installation continues on next page.



Bilge pump sensor install continued...

9.  If there **is** a **manual bilge pump switch**, locate the manual on/off control wire to the pump, typically a brown wire with a white stripe. However, the boat may be different. This wire will not have 12V power unless the manual switch is on.
10. If there **is** an **external float switch**, this wire should run straight to the pump and not through the float switch. Use caution not to select the automatic control wire to the pump with an internal float or the clean power wire feeding an external float switch.
11. Cut the manual control wire and strip the insulation on each wire 3/16-1/4" from the end. Using the provided push-in splices, insert each stripped wire end into separate splices.
12. With the sensor wires, locate the brown with yellow stripe wire marked "TO BILGE." If the end is not stripped do so now. Insert the wire end into the splice on the wire coming from the bilge pump.
13. Locate the brown with white stripe sensor wire marked "TO HELM." Insert this wire into the other splice.
14. Attach the long **red wire** that has a ring terminal to a clean (always on) 12V power source.
15. Attach the sensor using provided zip ties in a convenient location above the bilge pump.
16. Route and secure harness with zip ties every 10 inches.

Repeat entire sequence for each bilge pump on the boat.

Almost finished!

After installing the hardware, you can monitor the boat in the NAUTIC-ON app

Key on to see engine data

Re-hook up your battery to get power on the boat. Then, key on the engine.

Monitor boat in NAUTIC-ON app

Login to the app and you will see the boat on the dashboard. Scroll down and you will see the boat information and the status of all the systems you hooked up.

Rename your sensors

Tap on each component card on the dashboard to see more details about that system.

On the detail page(s), tap on the gear icon, and you will see a field to rename the sensor. We recommend renaming the sensors to correspond to the boat configuration, e.g. Aft battery, Fwd battery.

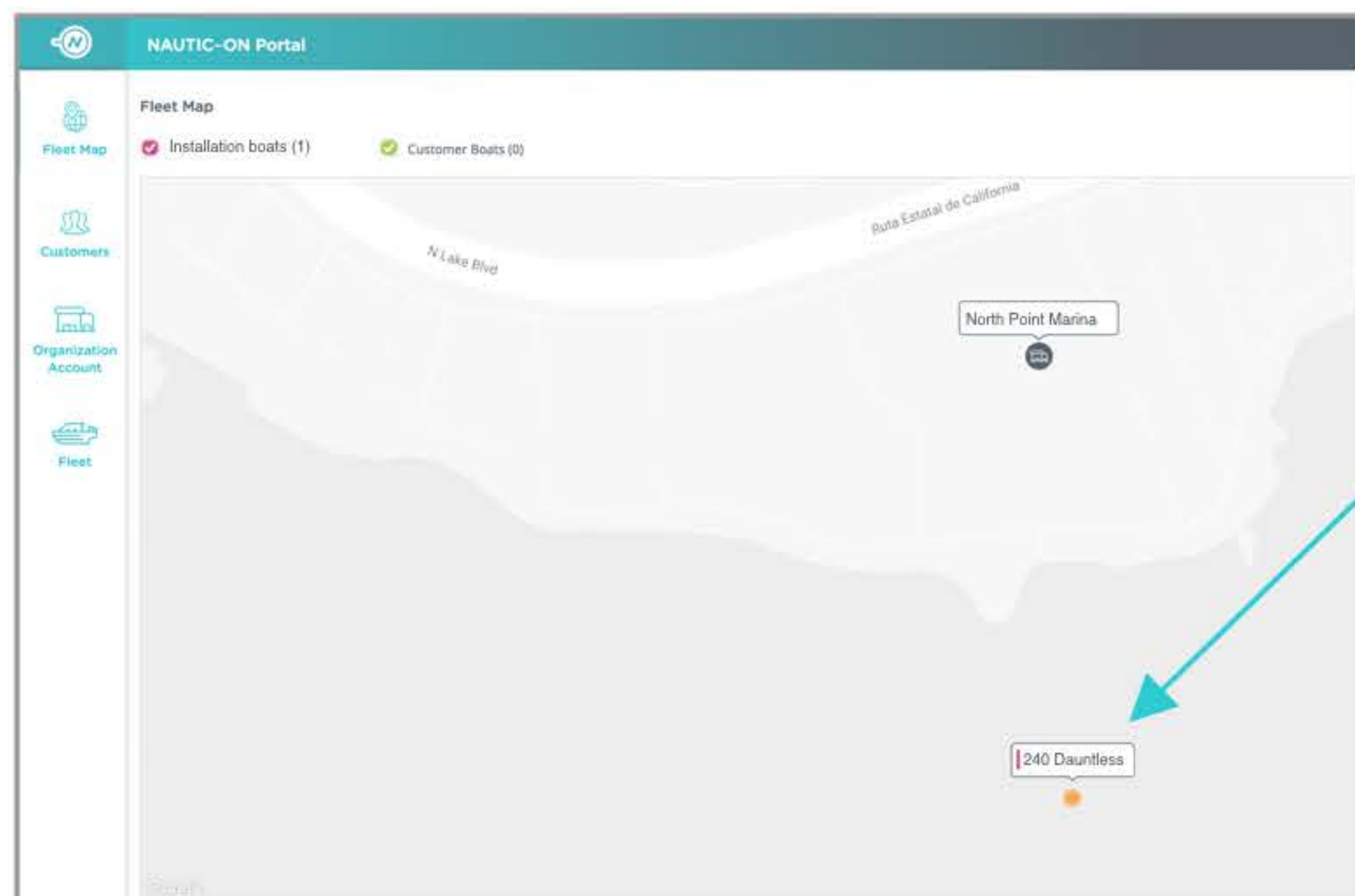
Have any questions?

Give us a call [877-235-5239](tel:877-235-5239) or

Email us support@nautic-on.com

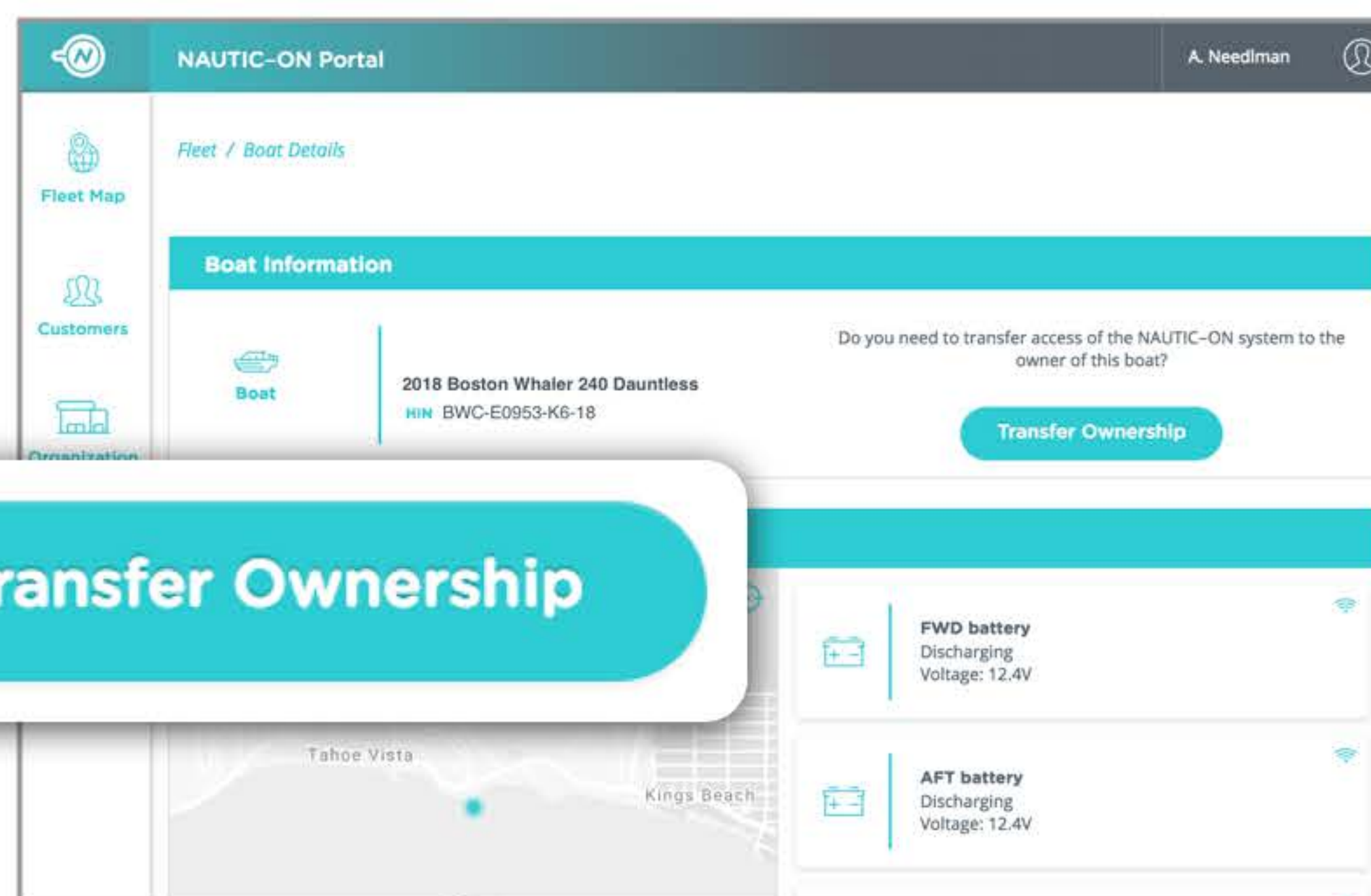
For Marine Service Providers:

Make sure the customer has created their 'boat owner' account in the NAUTIC-ON app. You will need their email address to transfer the boat to their account.



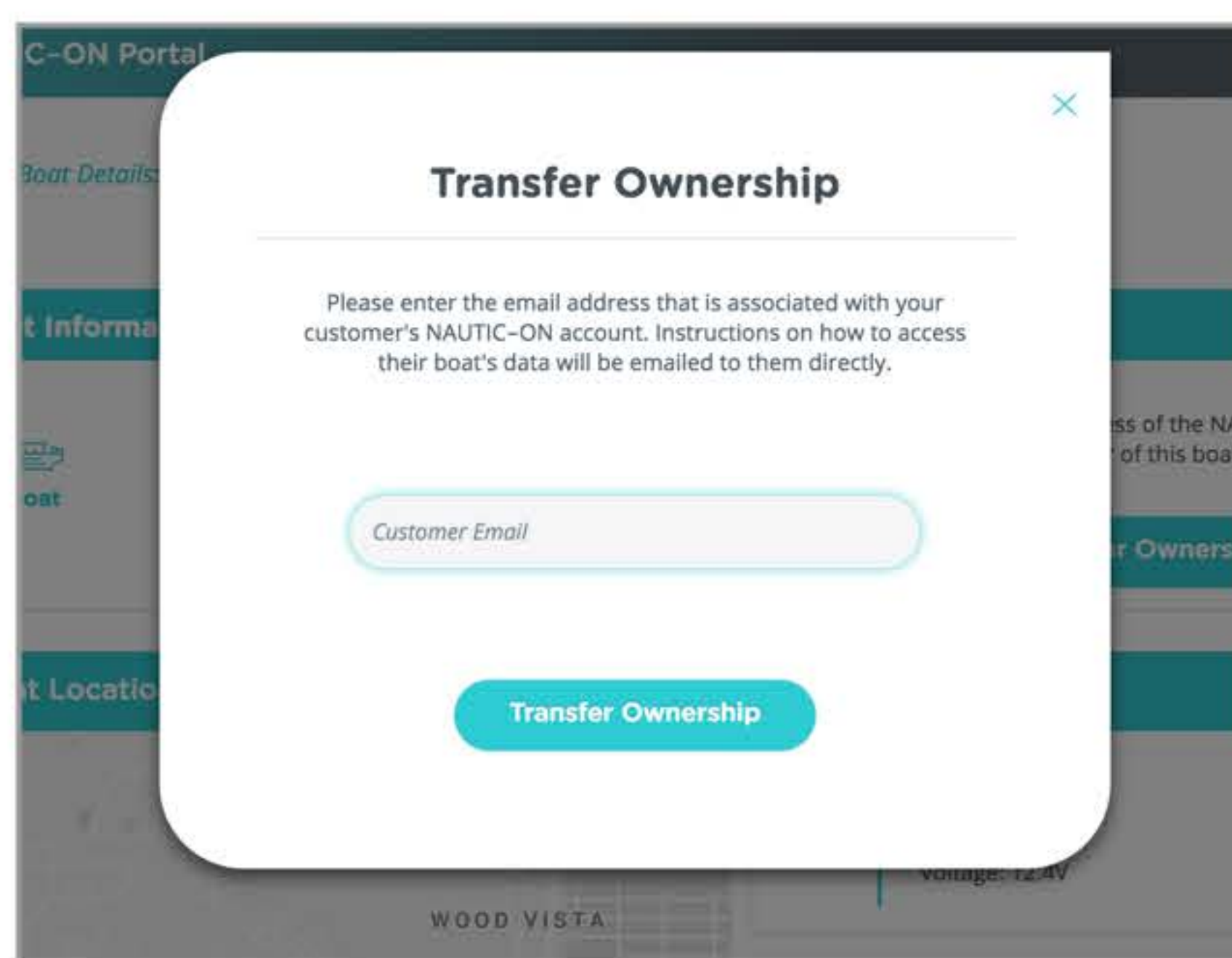
Click the boat
on the map

1. Login to the NAUTIC-ON portal portal.nautic-on.com/login. You will land on the map page that shows the boat with the NAUTIC-ON installation. Click the boat name.



Transfer Ownership

2. In the top right corner of the boat details page, click the button "Transfer ownership"



3. A separate window will pop up. Enter the email address associated with the customer's NAUTIC-ON account, then click "Transfer Ownership."

What's next?

Once transferred to the customer, you will no longer see the boat on your "Fleet" map and the customer will have access to it in the NAUTIC-ON app.

The customer can pick preferred service provider in the app to share boat alerts. When they share with you, you will be able to see their boat details and alert history via the customers page in the portal.