



Self-Service Tank Setup Installation for ST90 and ST95 units

This document will review the process for setting up a new telemetry device as well as a process for swapping out an existing monitor for a new monitor via the SMARTank website and Mobile app. Before getting started, be sure to:

- Identify the serial # of the unit to be installed and the Org / Location it should reside in.
- Ensure the Org & Location the tank will be installed/swapped into is setup in SMARTank
- Ensure Installer has Access & appropriate permissions to SMARTank and/or Mobile App.
- The Mobile App can be found on the [Google Play Store](#) and [Apple App Store](#) by searching “SMARTank”.
- Review the physical installation process for ST90 and ST95 units:



- Installation Video: <https://www.skybitz.com/video/smarttank-tank-monitor-installation/>
- Installation Guide: https://www2.skybitz.com/tank_installation

SMARTank New Installation

This section of the document will review the process for setting up a new telemetry device via the SMARTank website.

Step 1: Move to appropriate Organization & Location

The first step is to move the telemetry unit to the appropriate Organization & Location within your SMARTank Account.

Within the main Tank Tab, from the **Service Tab** of the telemetry unit you are installing, locate the **Move Tank** Data section.

Select the **Organization & Location** from the drop-down box to move the tank to.

Move Tank

Enable Edit ACME Co **Delete Partner Views**

Destination Organization : ACME Co

Location : - Select Location - **Move Tank**

[Create New Location](#) | [Move other tanks to Current Location](#) | [Edit Current Location](#)

Click **Move Tank**

Step 2: Tank Setup

To set up a tank for the first time, search for the Serial # of the unit you are installing in SMARTank and click on the Tank Name of the unit being installed and complete the following steps:

Click on the **Setup** Tab within the sub row In the **Telemetry Data** pane, complete the following fields:

- Tank Type
- Inventory Units
- Tank Height
- Tank Capacity
- Product & Product SGU (Specific Gravity)
- During Normal Use, Tank....

Tank Details

Tank Name: 1 Cellular ID: 10318 Location: Atlanta Site

Organization: ACME Co Serial Number: 210510819 Address: 2727 Paces Ferry Rd., Atlanta, GA - 30329-1053

Number: 1 Product/SGU: Unloaded - 1.00000

Current Readings

Inventory Time: 3/30/2023 1:59:02 PM (Thu) Gross Level: 82.3 in Gross Volume: 12606.0 gal

Manually Modified: Update Current Inventory on Submit: [Update Now!](#) [Save All](#)

Telemetry Data

Tank Telemetry

Tank Type: Standard Horizontal Cylinder

Inventory Units: Volume (gal)

Tank Height: 50.0 in

Tank Capacity: 15071.0 gal

Limit Capacity: gal

Capacity Limit: 15071.0 gal

Forecast Daily Usage: 0.00 gal

Tank Minimum (feet): 0.0 gal

Product List: Unloaded - 1.00000

Product Text: Unloaded

Product SGU: 1.00000

Expansion Coefficient: 0.0005

Other Telemetry Type: Tank

During Normal Use, Tank... Fills Empties

Fill/Drain Detect Volume: 1000.0 gal

Short Fill/Drain Detect Volume: 50.0 gal

High Set Point: 100.0 in

Low Set Point: 0.0 in

Sensor Offset: 0.0 in

[Save All](#)

General

Tank ID: 10510819

Tank Name: 1

Active: Active

Service Level: Active

Last Edited By: Marcia Cordero On: 3/29/2023

Install Status: Normal Installation

RMA Status:

User Defined:

Region:

Route:

Distribution Point: No Distribution Point

User Tank ID:

User Product ID:

Transport Status: No Status

RMA #:

Status Change: 3/29/2023

Key Note:

User Defined (B):

Region Name:

Route Name:

[Save All](#)

In the **General Data** Pane, complete the following fields:

- Tank Name

Additional fields can be set based upon the specific needs of the tank. Finally, click the **Save All** Button

Step 3: Physical Installation & Validation for ST90 & ST95 Units

Finally, physically install the monitor and then validate that the tanks' manual level reading matches that of the levels indicated in SMARTank.

ACTIVATION

5. To initiate the call out, place the magnet against the lid (Client monitors will require an open lid for button push)
2. Hold the magnet in place for 2-3 seconds
3. Observe the monitor LED green light sequence (refer to table below for light sequence descriptions)



Condition	LED Description
Power ON	A slow green LED flashes followed by the green and red LED's alternate flashes
Active on Cellular Network	Red LED will go out and the green LED will start to flash slowly while attempting to register on the cellular network
Connected to Cellular Network	Green LED will go steady on
Successful Call	Green LED flashes and goes out

- Use the Tank Details page to see the most recent inventory reading.

Details | Map | Permissions | History | Usage | Setup | Alarms | Service
Setup New Tank | Setup Alarms

Tank Details

Tank Name:	1	Cellular ID:	10348	Location:	Atlanta R&D
Organization:	ACME Co	Serial Number:	210510819	Address:	2727 Paces Ferry Rd., Atlanta, GA - 30339-4053
		Number:	1	Product/SGU:	Unleaded - 1.00000

Tank Status

Inventory Time:	3/30/2023 1:59:02 PM
Primary Location Contact:	Not Assigned
Alarm Status:	OK
Comm Status:	OK
Maintenance Status:	OK
Sensor Status:	OK
Level:	92.3 in
Inventory:	12606.0 gal
Tank Type:	Standard Horizontal Cylindrical Tank
Tank Height:	96.0 in
Tank Number:	1
Region:	
Route:	
User Defined:	
User Defined (B):	
Key Note:	

Tank Level

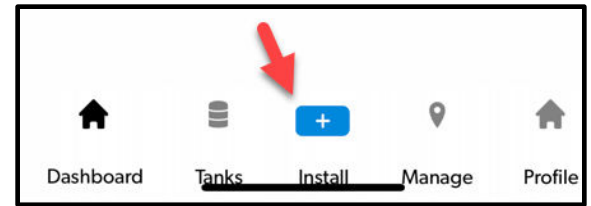
12606 gal **84%**

There are no photos associated with this tank

Mobile App New Tank Installation

Click on “Install” from the Mobile App bottom menu on the Dashboard.

Ensure the installer has access and appropriate permissions using the SmartTank and/or Mobile App.

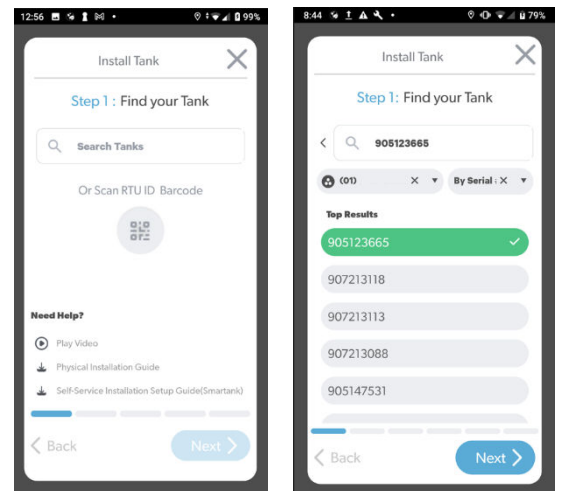


Step 1: Find Tank

Search for the Serial #, MIN# or Scan the barcode on the tank monitoring device.

- You may click directly on the magnifying glass to see all Top Results.
- A few Serial #s will pop up as “Top Results” to make a quick selection.

Select Tank and click the **Next** button to go to step 2.



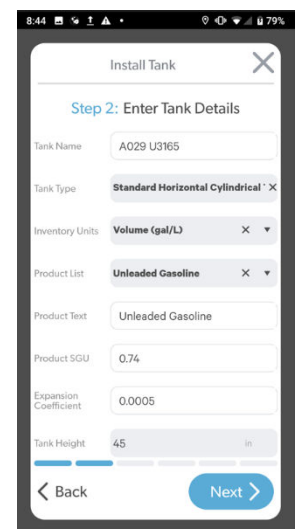
Step 2: Tank Details

Complete the required fields in the Tank Details set up.

- Tank Name
- Tank Type
- Inventory Units
- Product
- Product SGU
- Tank Height
- Tank Capacity

Additional fields can be setup using the SmartTank Web Portal.

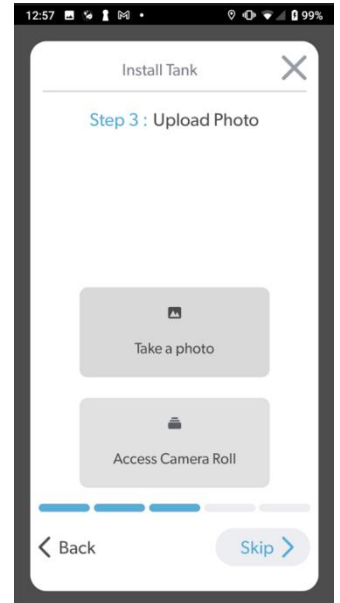
Click the **Next** button to go to step 3.



Step 3: Upload Tank Photo

You can use the camera roll to access tank photos you have previously taken or click “Take a photo”.

Click the **Save** button or click to **Skip** to go to the next step.

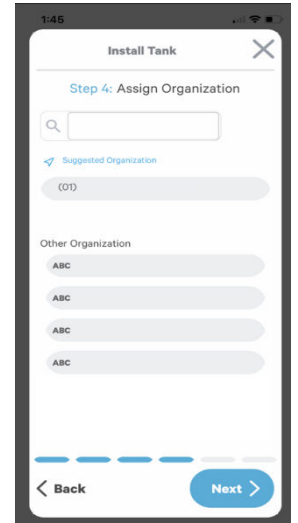
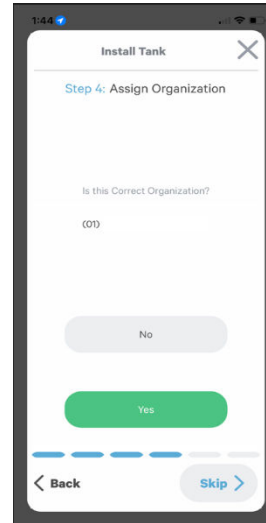


Step 4: Assign Organization

Suggested Organizations will pop up. Click the “**Yes**” button to confirm a location. This will take you the next step.

Click the “**No**” button if you don’t recognize the Organization. You can search for the correct one and assign it.

Click the **Next** button to go to step 5.



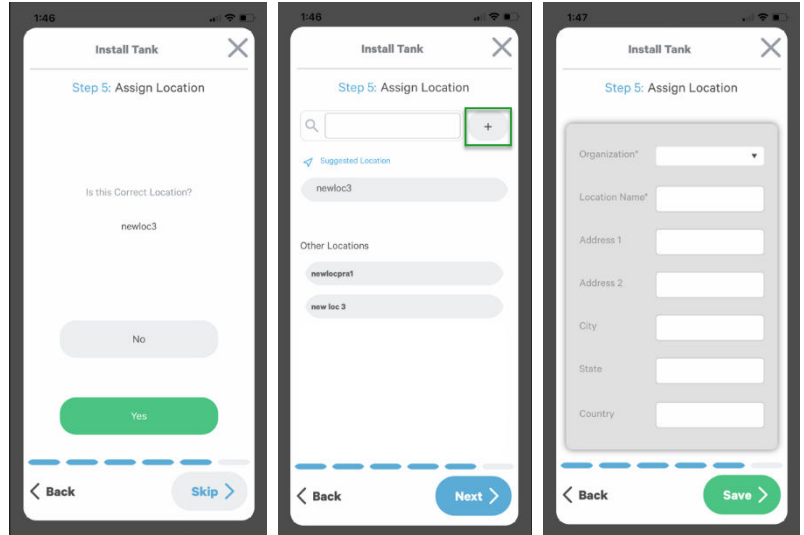
Step 5: Assign Location to the Tank

Suggested locations will pop up. Click the “**Yes**” button to confirm a location. This will take you to the next step.

Click the “**No**” button if you don’t recognize the location.

Click the “**+**” sign to create a new location and enter the Organization details.

Click the **Save** button to go to step 6.



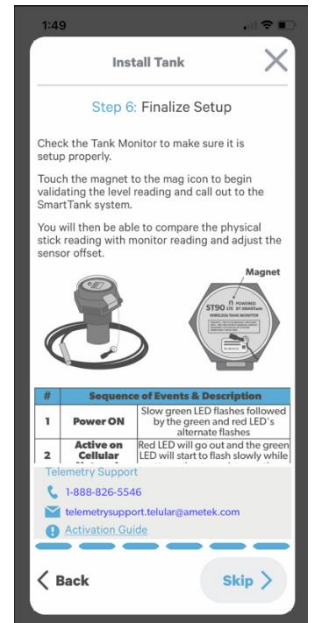
Step 6: Finalize Set up

Physical Installation & Validation for ST90 & ST95 Units

Before removing the existing monitor, push the button or mag swipe the unit to initiate a level reading and call out to the SMARTank system.

This will allow you to compare the levels indicated by the old and new monitors to ensure accurate installation.

Physically install the monitor and then validate that the tank’s manual level reading matches the levels indicated in SMARTank.

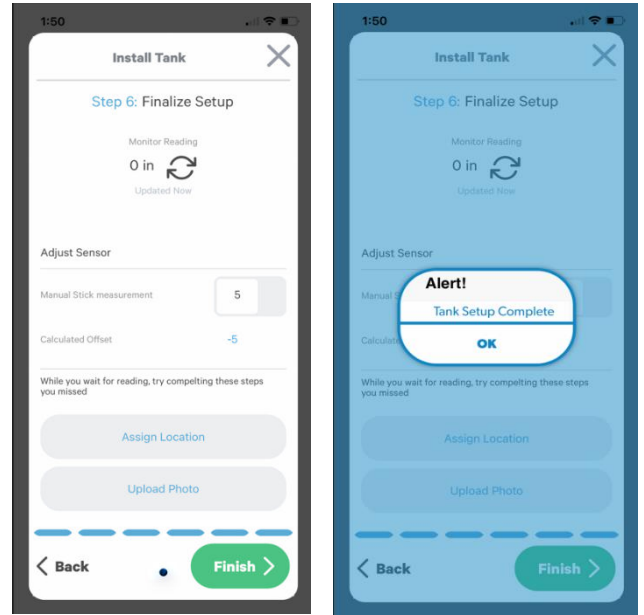


To **Adjust the Sensor** add the Manual Stick Measurement.

Calculated Offset will be displayed automatically after entering a manual stick measurement. If the value is highlighted in blue, no further action is needed. If the value is highlighted in red, you should confirm the measurement.

In case you've skipped a step, such as Assign a Location or Photo, you can add it at this point.

Click on **Finish** button.



Pairing Clients to Host

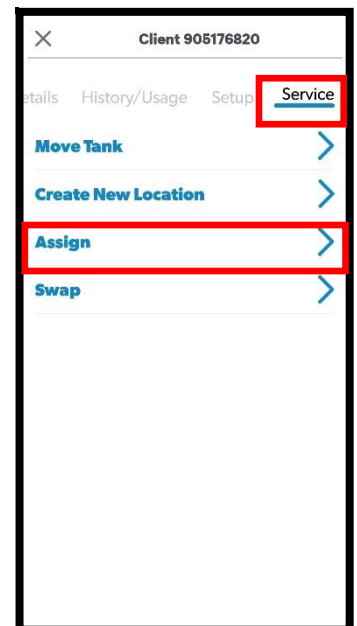
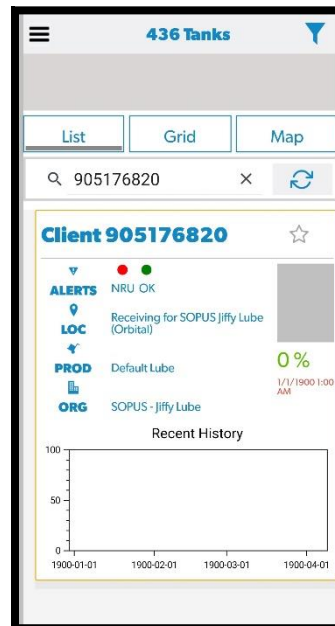
Step 1:

Click on "Tanks" from the Mobile App bottom menu on the Dashboard.



Step 2:

- User either the List or Grid view.
- Enter the CLIENT Serial # and click on the magnifying glass
- Click the Tank Name
- Go to the Service tab
- Click on Assign



Step 3:

- Hit “Click to Select”
- Select the Serial # radio button
- Enter or Scan the HOST Serial #
- Click Search
- If HOST is active, it will be found
- Click Assign (upper right-hand corner)

Assign Host ASSIGN

All Organizations

Tank Name Client 905176820

Step 2. Select host device to Assign

CLICK TO SELECT

Min #

RTU ID

Sensor Type

Sensor Length

RTU Model Type

Organization

Location

Assign Host ASSIGN

All Organizations

Tank Search

Min #

Serial #(RTU Id)

Location Search

Location Look up

Tank Name Look up

Tank Name Search

Enter/Scan RTU Id SCAN

Cancel Search

Organization

Location