

# Remote Station Quick Start Guide

## Controller Menu

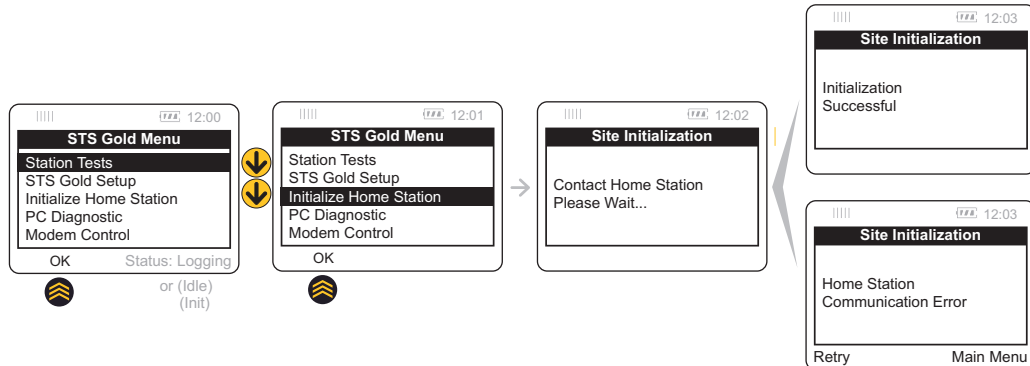
- Power On
- Confirm Selection
- Scroll Up
- Scroll Down

There are five menu items on the STS Controller main menu. They are scrolled through using the arrows on the key-pad and selected using the chevron button , and choosing OK at the bottom left of the screen:

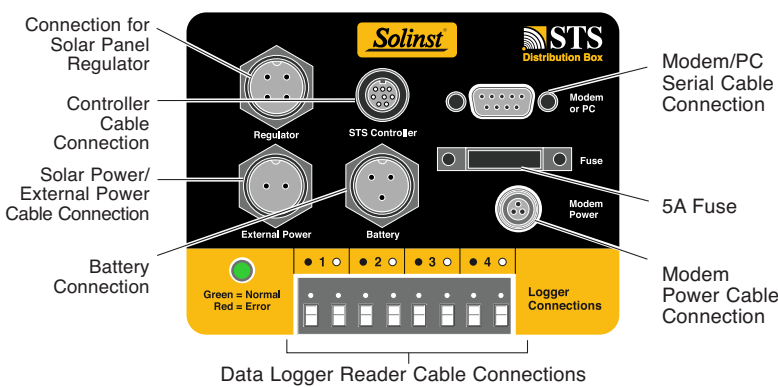


- Station Tests – Test the connection with the Home Station, view real-time readings from the data loggers, and check the battery voltage.
- STS Gold Setup – Configure the STS Controller by changing the contrast of the LCD screen. Restore original factory settings (sampling and reporting stops). View STS Gold Information, including firmware version and available memory.
- Initialize Home Station – Contact Home Station and initialize the STS System.
- PC Diagnostics – Perform diagnostic tests on the STS Controller using PC software.
- Modem Control – Turn the modem on/off.

## Controller Menu Screen Sequence



## Distribution Box Cable Connections

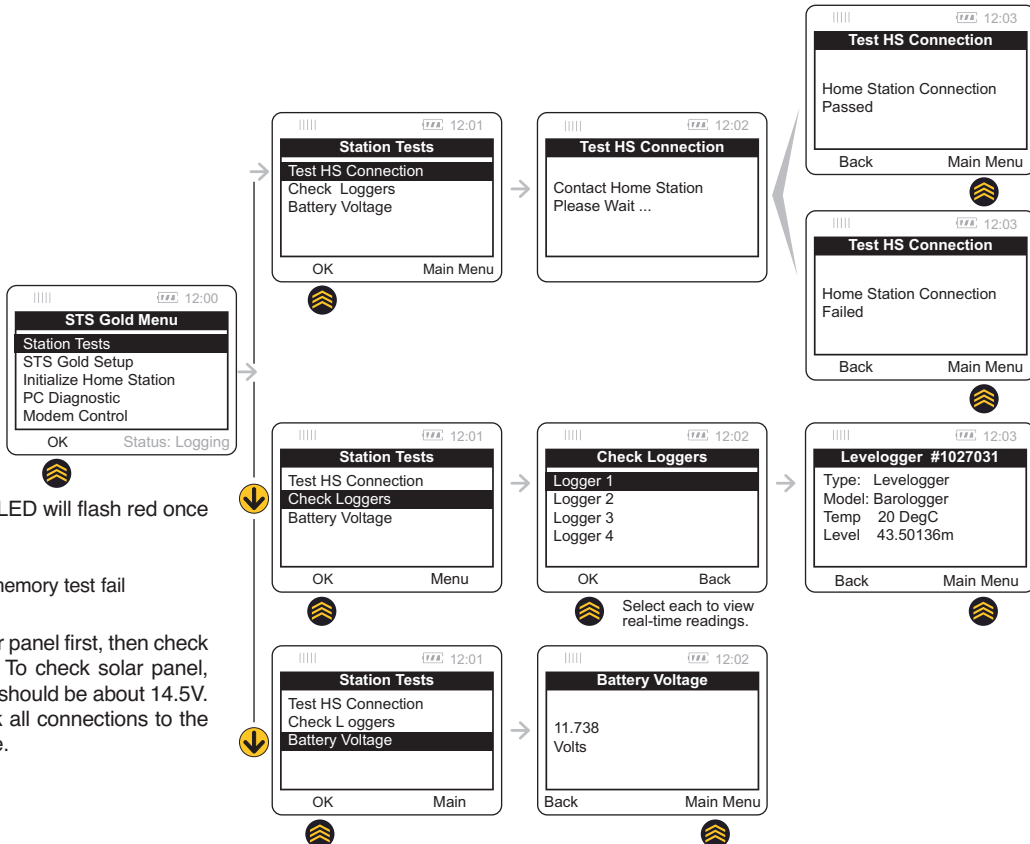


## Distribution Box Trouble Shooting

Under normal operation the LED on the bottom left of the Distribution Box will flash green. The LED will flash red once every second if a failure is detected. The following are possible errors that may have occurred:

- 1) The battery voltage is too low (i.e. < 9V)
- 2) The 5A fuse has blown
- 3) The internal regulator voltage is out of tolerance
- 4) Program Memory test failed
- 5) Electrically Erasable Programmable memory test fail

First, check to see if the battery needs recharging or changing. To check battery, disconnect solar panel first, then check battery voltage. If using a solar panel, check the voltage output (it should be 13V or more). To check solar panel, disconnect the battery and check solar panel voltage. If using an AC Charger, the output voltage should be about 14.5V. Check and replace the modem/5A fuse if damaged (contact Solinst for a replacement). Check all connections to the Distribution Box. If none of these actions correct the error, contact Solinst for further assistance.



## Remote Station Status

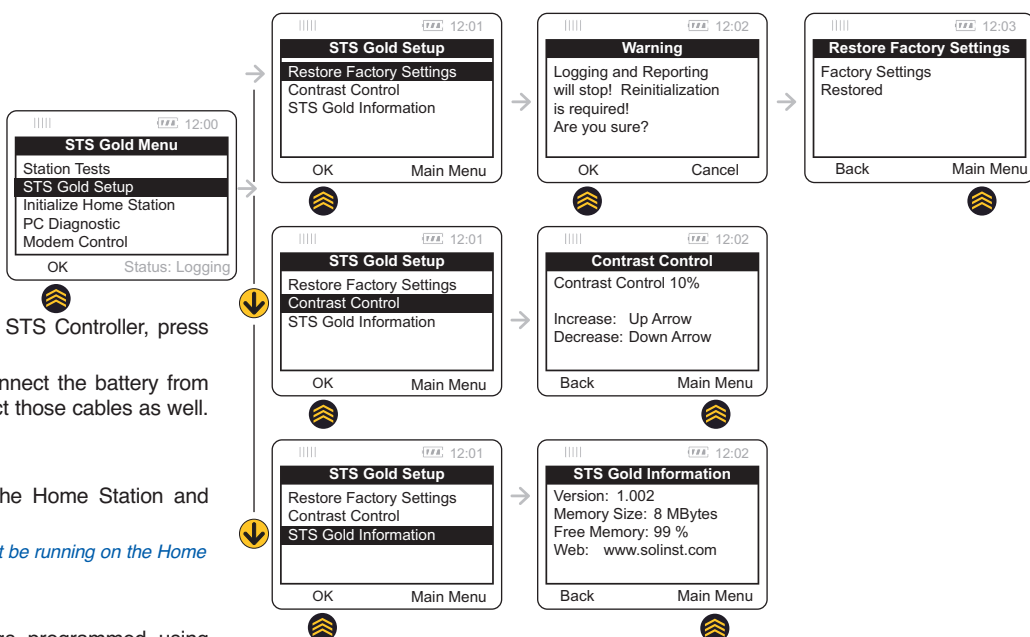
The top left icon on the STS Controller LCD screen indicates the signal strength of the modem, the battery indicator at top right shows the strength remaining in the 12V battery, and the text in the bottom right corner describes the status of the STS System.

- Idle – indicates that the Controller is idle and waiting for initialization.
- Init – shows that the Controller is going through the initialization process.
- Logging – indicates that the STS is collecting data from data loggers.
- FUT. ST – indicates that the STS has been programmed with the Future Start option.

## Initialization Procedure

1. Ensure all hardware components of the Remote Station are properly connected. On the STS Controller, press to power-up the Remote Station. The LED on the Distribution Box should flash green.
2. Select "Modem Control" on the Controller main menu, and "Turn Off" the modem. Disconnect the battery from the Distribution Box and wait a few seconds. If Using solar panel/external power, disconnect those cables as well. Re-connect the cables and turn the modem back on.
3. At the Home Station, re-start the STS Administrator and Communication Agent Software.
4. Use the STS Controller to perform a "Station Test". "Test HS Connection" to ensure the Home Station and Remote Station are communicating. If successful, begin the initialization process.
 

*Note: During the initialization process, STS Administrator and Communication Agent Software must be running on the Home Station computer, and the computer must not be in sleep mode.*
5. Scroll to, and select "Initialize Home Station" on the STS Controller main menu.
6. The initialization process should only take a few minutes. It applies all the settings programmed using the STS Software at the Home Station, to the STS Controller and attached data loggers.
7. If the initialization is successful, there will be a message confirming this and the STS Controller status will change from "Idle" to "Logging".



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