Force America SSC5100

Written By: Alkesh Dhak



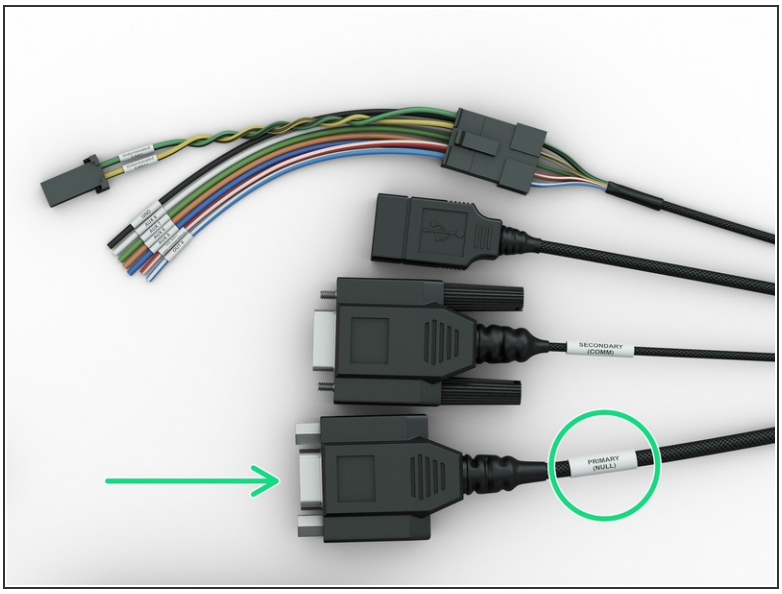
© 2024 - Uncontrolled If Printed

INTRODUCTION

[video: https://youtu.be/Um6SImfsImY]

© 2024 - Uncontrolled If Printed

— Installation

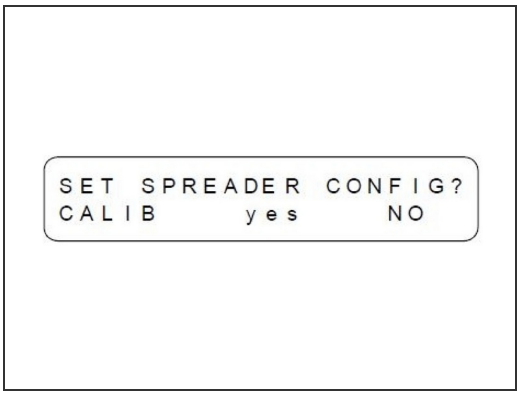




- The IOX-WRKS primary port connects to the DB9 to the serial port on the Force America SSC5100 with the HRN-FAI cable.

© 2024 - Uncontrolled If Printed

— Controller Configuration







ⓘ The Force America SSC5100 should be factory enabled to send and store data. The following steps can be used to confirm that Event Logging is enabled.

- Power on the Force America SSC5100 controller and use the left selector knob to display [calib].
- Press the left selector knob in to enter calibration mode [CALIB].
- Rotate the left selector knob to [SET SPREADER CONFIG] and press the centre selector knob for "yes".
- Rotate the left selector knob to [ENABLE EVENT LOGGING] and press the centre selector knob for "yes".

⚠ If it is determined that Event Logging cannot be enabled, a programming key is required from Force America to unlock this feature. It uses a “one time use only” key which is held on the security button (top right) during power up.

© 2024 - Uncontrolled If Printed







⚠ The following steps are required to unlock Event Logging so that the Force America SSC5100 controller is able to stream data to the IOX-WRKS,

- Press the left selector knob so that [calib] changes to [CALIB]. Note that it should change to uppercase.
- Turn the left selector knob until [SETUP EVENT LOGGING] is displayed.
- Press the right selector knob to select "yes".
- Turn the left selector knob until [STORE EVENT OBD&EXT] is displayed.
- Press the right selector knob to select "yes".

⚠ Ensure the following settings are applied as indicated below.

© 2024 - Uncontrolled If Printed

- Baud Rate = 9600
- Protocol = Force
- Data Format = Long
- Data Capture = External & save onboard
- The following data fields should be activated: 2,3,4,5,6,8,9,10,12,13,14,15,22,23,24,25,26,27,33,34,35,36
- Add fields 16, 17, 18 for anti-icing add fields 19, 20 for temperature.
- The following triggers should be activated: 4,5,10,13,14,24,33
- Add trigger 16 for anti-icing.

- Exit the [CALIB] menu.

The Force America SSC5100 controller is now configured to stream data to the IOX-WRKS.

Ensure the IOX-WRKS has the correct controller configuration loaded before proceeding to verification / simulation mode.

— Simulation Mode

- Set [Spinner], [Conveyor] and [Liquid] to desired settings.
- Press the green spreader knob (on and off) on the controller to trigger an event change.
- Verify the data.

© 2024 - Uncontrolled If Printed