Rexroth CS550

Written By: Jason Fox



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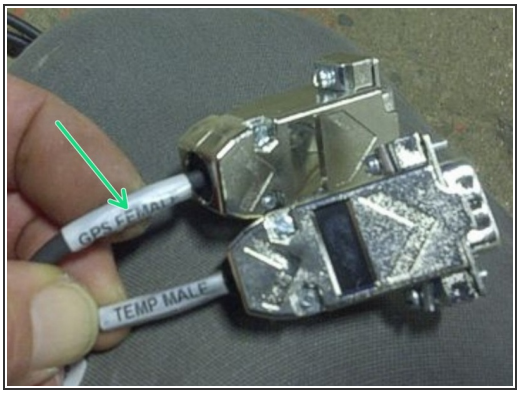
INTRODUCTION

[video: https://www.youtube.com/watch?v=taVSCrMIfh0]

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— Requirements



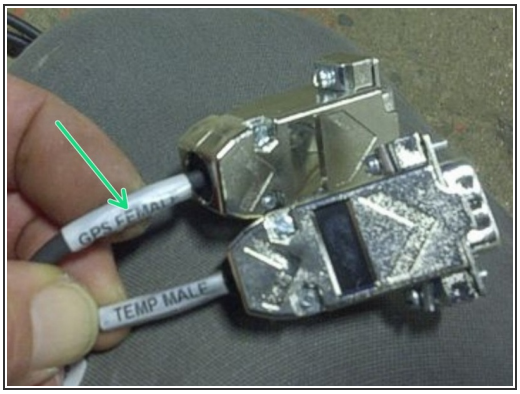



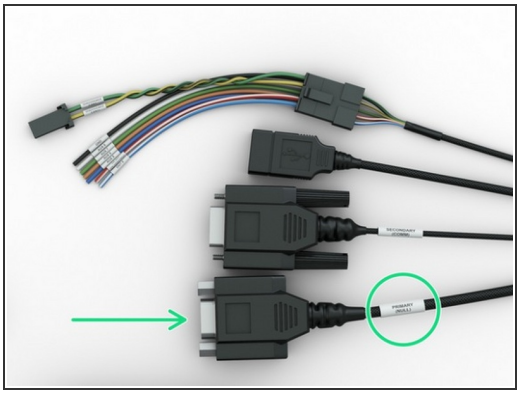
- The Rexroth RS232 DB9 is a non-standard port with +5V power on pin 1. To avoid potential damage to the IOX-WRKS or Rexroth control board you must us the HRN-FAI cable between the primary port and the Rexroth cable.

- Rexroth supplied CS550 CS660 GPS/AVL cable from control head to Primary Port required using the HRN-FAI cable.
- Part Number 987376776 - requires M/F null adapter.
- Part Number 987480240 - requires M/F null adapter.
- Part Number 987400008 - no null required

— Installation



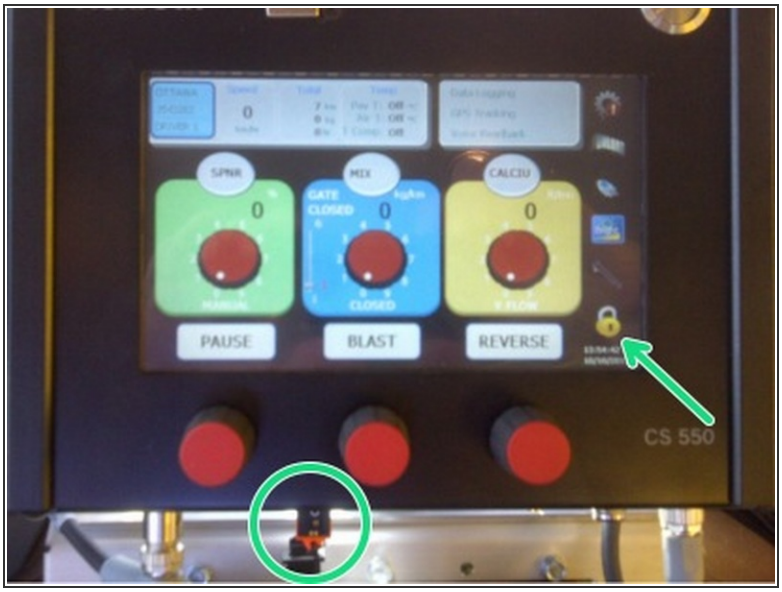




- Connect to the ACC port on the controller.
- On the Rexroth cable, use port labelled GPS or AVL to connect to the HRN-FAI cable, and then to the IOX-WRKS primary port.

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— Controller Configuration





- From the main screen of the CS550, insert programming key into one of the USB ports of the control head.
- Wait about 10 seconds, then press the lock symbol icon on the bottom right of the screen.
- On the programming screen. Ensure the “AVL” box is checked. The GPS box should be unchecked.
- Press the exit button to return to the main screen - this is the door icon on the bottom left of the screen and remove programming key.

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

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— Simulation Mode





- Placing CS550 in ground speed simulation by pressing the Speed button, it should indicate 0
- Press and hold the up arrow for 5 seconds.
- Increase the speed value to about 40.

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- 1. Set the material rates on the screen to a desired setting.
- 2. Verify data flow.
  - The gear icon with AVL indicates the IOX-WRKS has a Rexroth configuration and is polling the CS550.
  - The gear icon WITHOUT AVL indicates there is no AVL connection. Check the wiring, null adapter requirement, and the configuration.
- 3. When test is complete, return speed to zero using the down arrow.

⚠ **Never leave a controller in simulation mode!**

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