

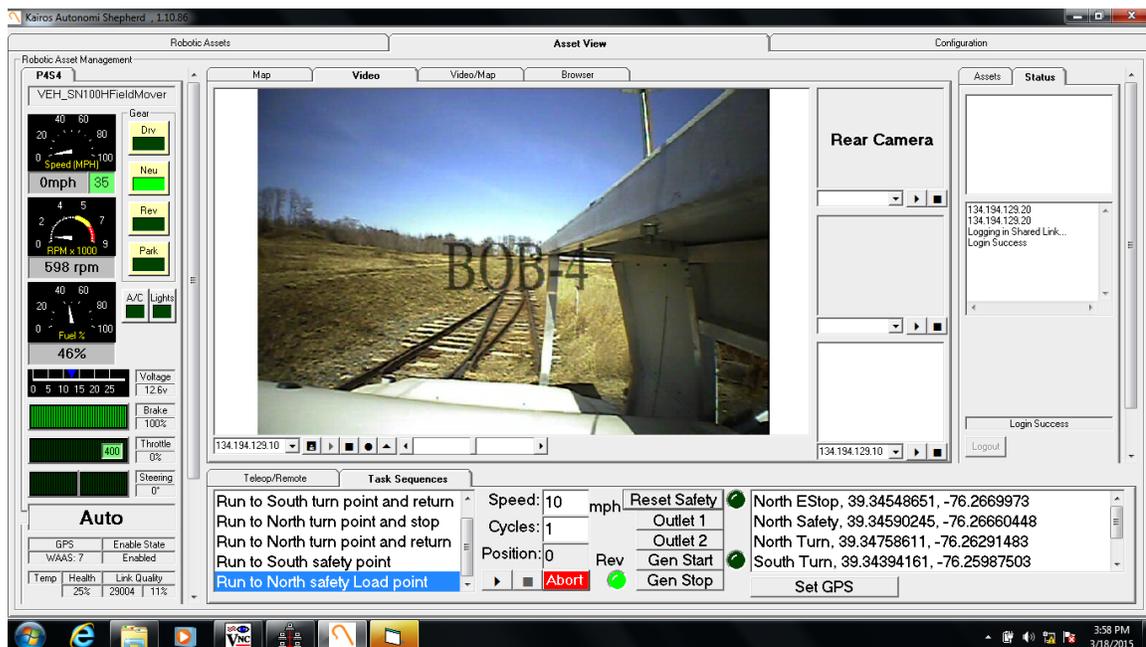
H-Field Moving Target - Start Up

Introduction

This bulletin documents how to start-up the H-Field mover and prepare to play a path using Kairos Autonomi's Shepherd software, with Task Sequences functionality.

Startup Sequence

1. On the box behind the driver's seat, flip the toggle switch to the "On" position. Verify the blue LED illuminates.
2. On the box behind the driver's seat, turn all circuit breakers on.
3. Wait at least 3 minutes, as there is no verification of the system being fully booted.
4. On the floor in front of passenger seat, remove the large battery jumper with the blue Anderson connector.
5. Insert the Anderson connector labeled "MAIN" into connector labeled "12V From Truck".
6. Insert the Anderson connector labeled "AUX" into connector labeled "12V Power Center".
7. On the VIM (i.e. the main black box by the driver seat) flip the right MAN/AUTO switch to the "MAN" position and the left ON/OFF switch to the "ON" position.
8. On the E-Stop (i.e. the lower black box by the driver seat), flip the switch to the "On" position.
9. On the Remote E-Stop box (i.e. the box with the three position dial), turn the dial to "Remote". (The "Bypass" position will bypass the Remote E-Stop box).
10. Turn on the controller.
11. The controller should automatically load the programs used to operate mover.

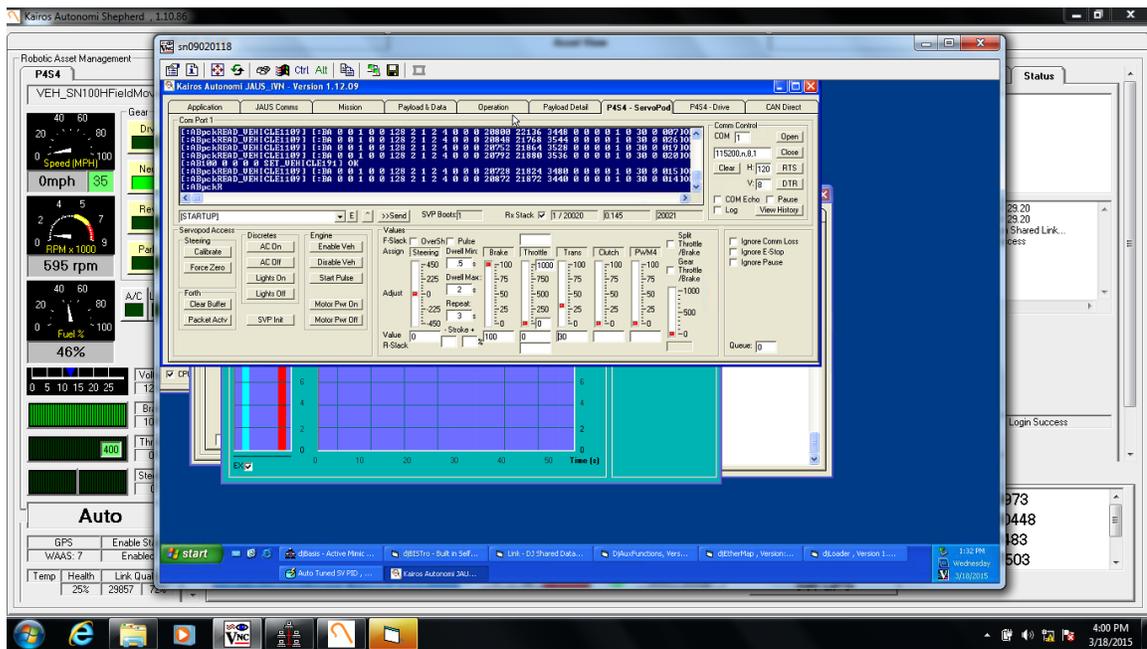


12. In Shepherd, on the "Asset View" tab and "Assets" sub-tab, locate "VEH.SN100H-Field" and single-click it, then scroll down, and click "Login".
13. Insert the key into the mover's ignition switch and turn it to the accessories position.
14. On the VIM flip the right MAN/AUTO switch to the "AUTO" position. Verify the "Ready" and "Enable" LEDs illuminate.
15. In Shepherd, on the "Asset View" tab and "P4S4" sub-tab, verify that the "Link Quality" is at 50% or above and the value immediately to the left is counting up.

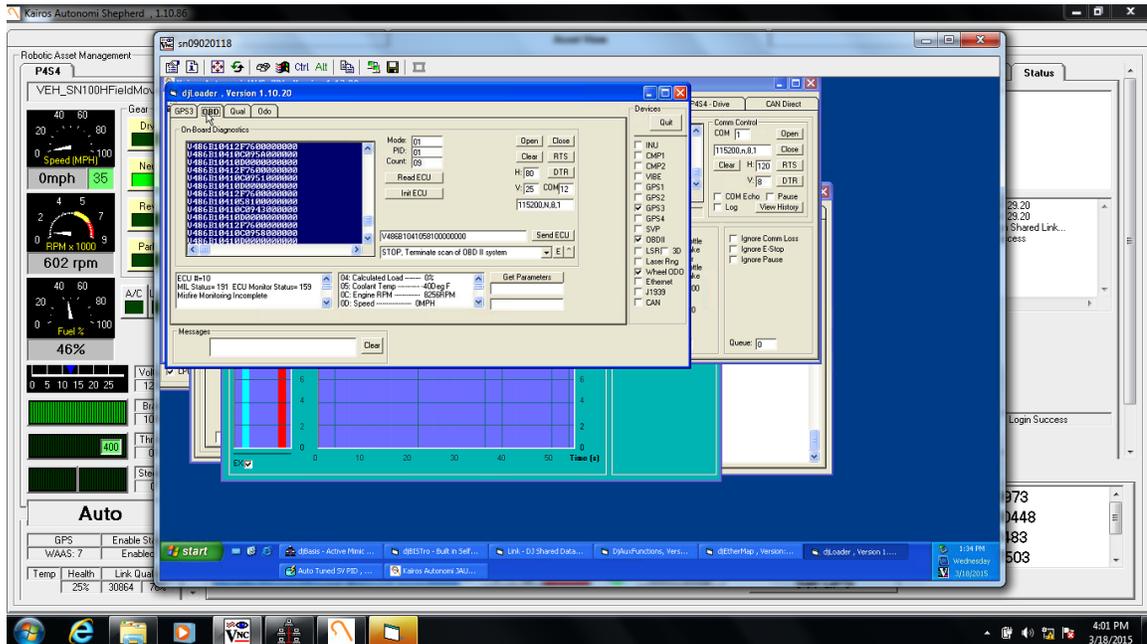
16. In Shepherd, on the “Asset View” tab and “Teleop/Remote” sub-tab, click the “Start” button to start the mover’s engine. Verify the RPM goes from 0 rpm when engine is off to around 600 rpm when engine is running.
17. In Shepherd, on the “Asset View” tab and “Teleop/Remote” sub-tab, click the “Enable” button. Verify the engine shuts off.
18. Repeat step 16.

Pre-Checks

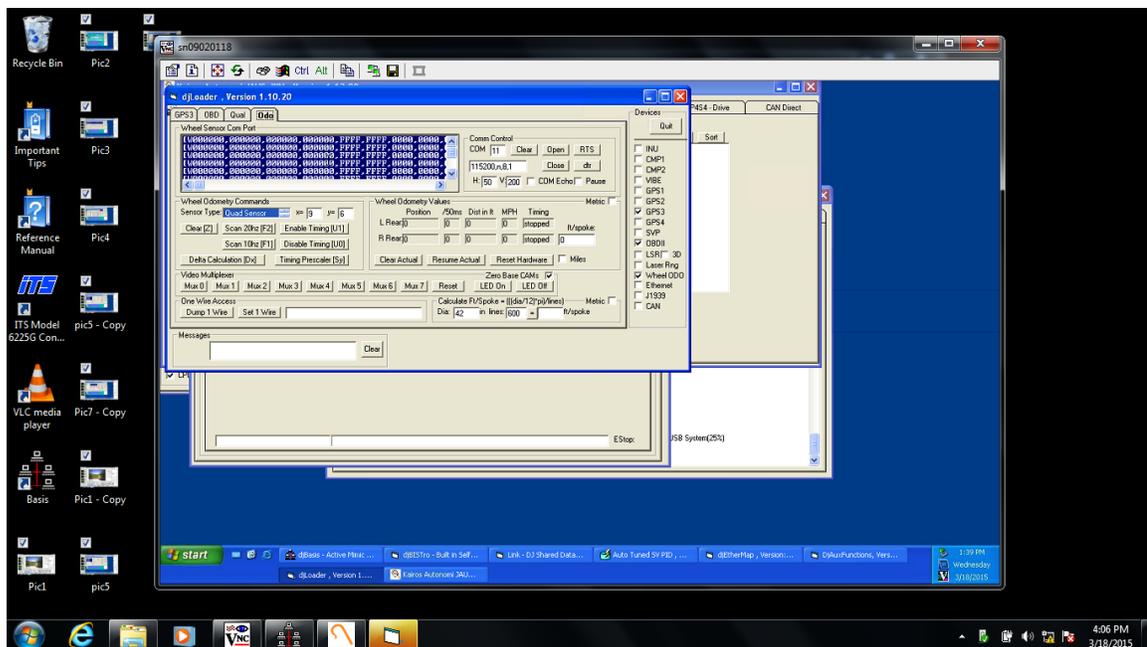
19. VNC into the vehicle.
20. In Kairos Autonomi JAUS_IVN.exe, on the “P4S4 ServoPod” tab, verify data is streaming. If data is NOT streaming then reboot P4S4 and restart this procedure from Startup Sequence step 12.



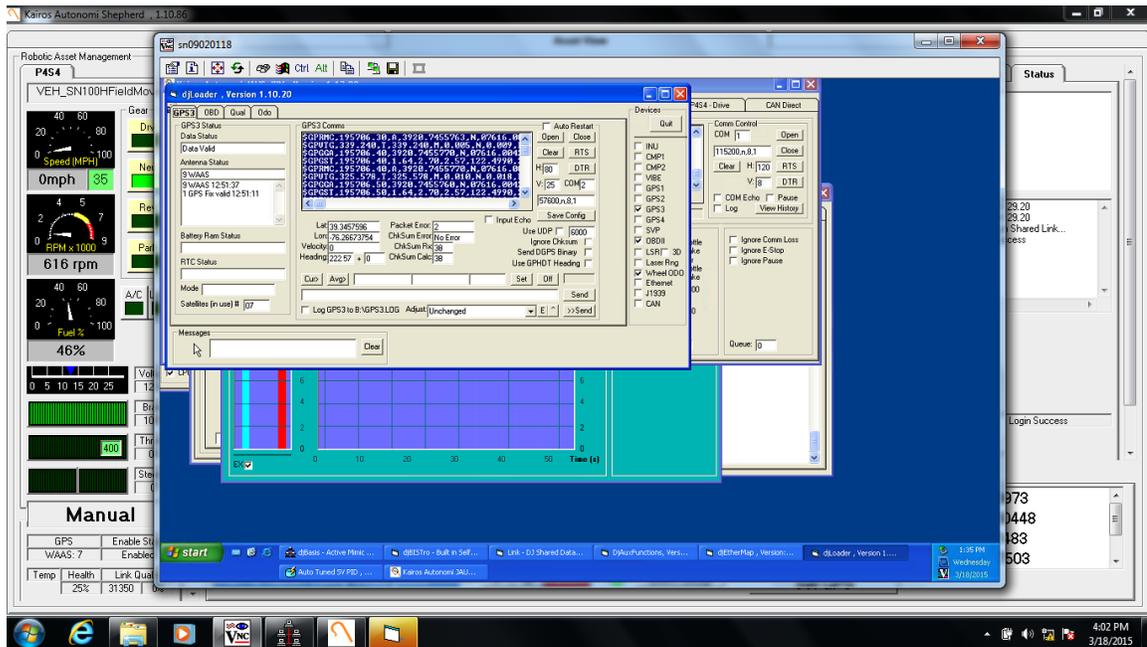
21. In djLoader.exe, on the “OBD” tab, verify data is streaming. If data is NOT streaming then reboot P4S4 and restart this procedure from Startup Sequence step 12.



22. In djLoader.exe, on the “Odo” tab, verify data is streaming. If data is NOT streaming then reboot P4S4 and restart this procedure from Startup Sequence step 12.



23. In djLoader.exe, on the “GPS3” tab, verify data is streaming and the “Antenna Status” is “9 WAAS”.



24. In the mover, verify that the transmission cable is connected and the steering wheel is secured with Velcro.
 25. You are now ready to start path playback with the mover. Refer to the “Path Playback with H-Field Mover” bulletin.

Contact Information

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