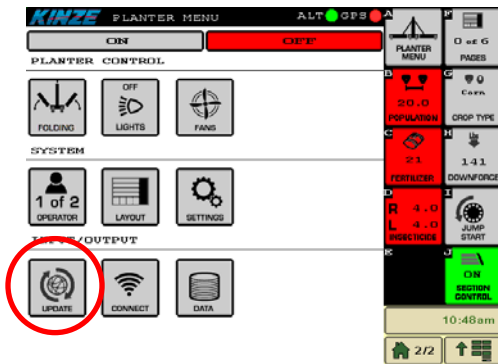
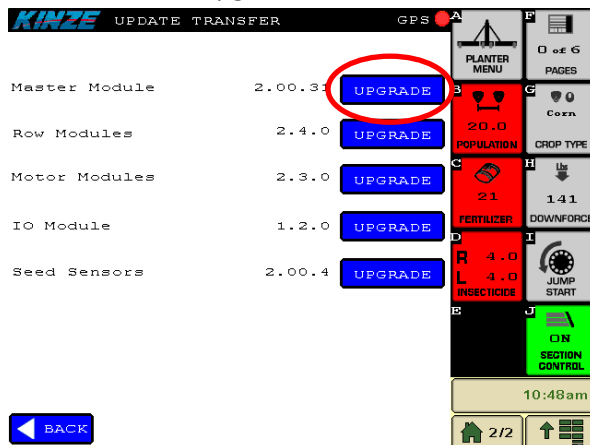


7.0 How to Update

1. Go to the Kinze Firmware update page at <http://www.kinze.com/firmware.aspx> and download the latest set of updates.
2. Once the folder is downloaded unzip the file.
3. Inside the folder there will now be 5 files:
 - a. MasterModule.exe
 - b. MasterIO.s19
 - c. MotorModule.s19
 - d. RowModule.s19
 - e. SeedSensor.s19
4. Copy and paste these into a blank flash drive.
5. Insert the flash drive into the USB port in the Master Module.
6. Start-up the tractor, display, and alternator.
7. From the Planter Menu select the Update button.



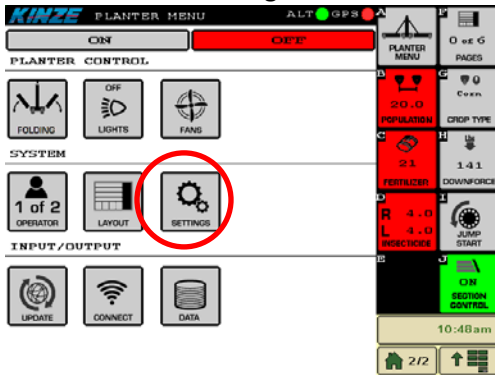
8. Then select the Upgrade button beside the Master Module label as seen below.



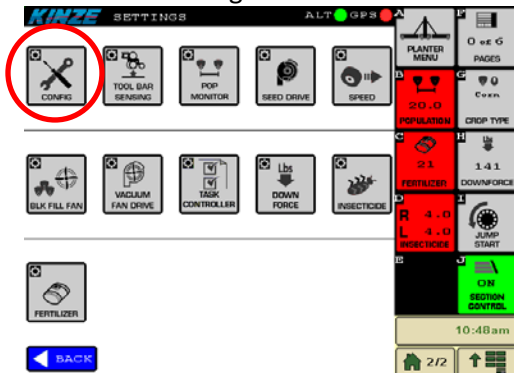
9. A screen will appear saying the update is in progress and the system will restart in 5 seconds.
10. Once the update is complete the display will lose communication with planter.

a. DO NOT REMOVE POWER UNTIL THE KINZE SCREENS REAPPEAR!

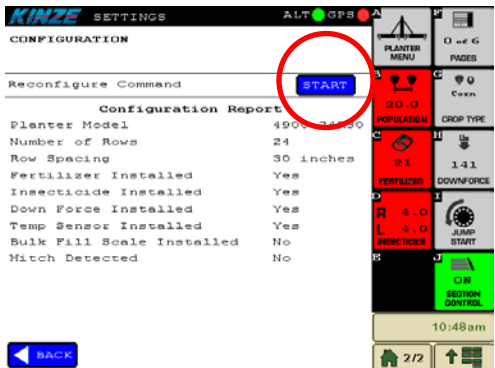
11. Once the Kinze Screens reappear, select Continue. You will get several alarms like Mismatch Serial Numbers and No Communication. Don't be alarmed, these will go away once we reconfigure.
12. Then select the Settings button from the Planter Menu.



13. Then select Config.

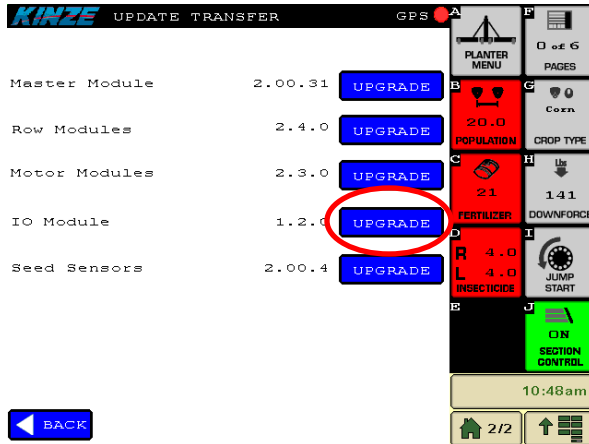


14. Then select Start.



15. Step through the configuration process and ensure the planter is reporting all the rows.
 - a. If not, check the rows that do not appear for module or wiring issues.
16. If all the rows are found, finish the configuration process and the Master Module will restart.

17. Once the Kinze Screens reappear, navigate back to the update screen and make sure the new version is listed for the Master Module.
18. Next the IO Module will be updated; select the Upgrade button beside the IO Module label as seen below.



19. A screen will appear saying the update is in progress.
20. Once the update is complete, you will be returned to the Update screen; ensure the new version is listed for the IO module now.
21. Next the Row Modules will be updated.
22. Turn on the Alternator if it is not already on.

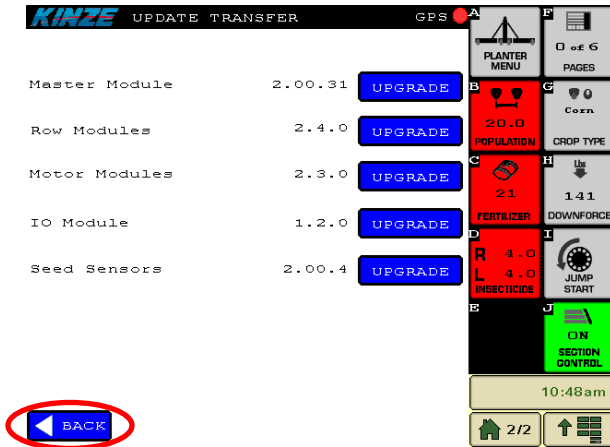
a. DO NOT TURN THE ALTERNATOR OFF UNTIL THE ROW MODULE UPDATE IS COMPLETE!

23. Select the Upgrade button beside the Row Modules label as seen below.

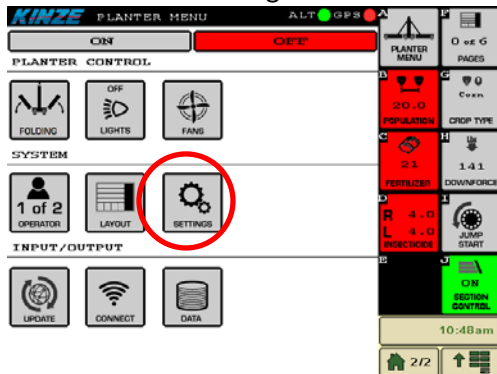


24. A screen will appear giving the update status. Each Row Module will be updated one at a time.
25. This update could take up to 10 minutes depending on planter size.
26. Once the update is complete you will be returned to the Update screen.
27. Verify that the correct version is now displayed beside the Row Modules label.

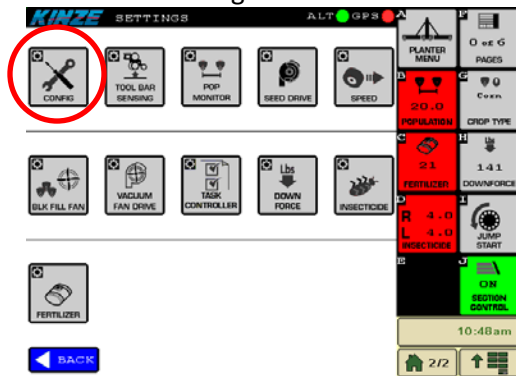
28. If the correct version is not displayed power down the display and planter and redo the update, make sure all conditions below are met.
- Correct file is loaded on the USB stick
 - Alternator power was not disrupted during the upgrade
 - Tractor power was not disrupted during the upgrade
29. If the correct version appears for Row Modules; then select the Back button on the Update screen.



30. Then select the Settings button from the Planter Menu.



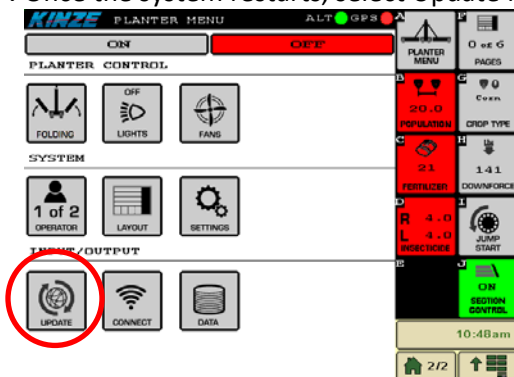
31. Then select Config.



32. Then select Start.



33. Step through the configuration process and ensure the planter is reporting all the rows.
34. If rows are missing in the configuration process shutdown the display and planter and restart.
35. Then update the Row Modules again ensuring the conditions below are met:
 - a. Correct file is loaded on the USB stick
 - b. Alternator power was not disrupted during the upgrade
 - c. Tractor power was not disrupted during the upgrade
36. If all the rows are found finish the configuration process and the Master Module will restart.
37. Once the system restarts, select Update from the Planter Menu.



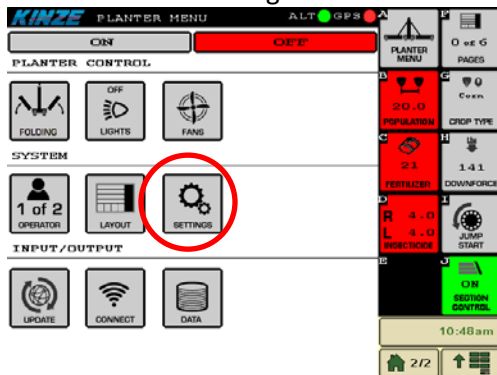
38. Next the Motor Modules will be updated.
39. Turn on the Alternator if it is not already on.
 - a. **DO NOT TURN THE ALTERNATOR OFF UNTIL THE MOTOR MODULE UPDATE IS COMPLETE!**
40. Select the Upgrade button beside the Motor Modules label as seen below.



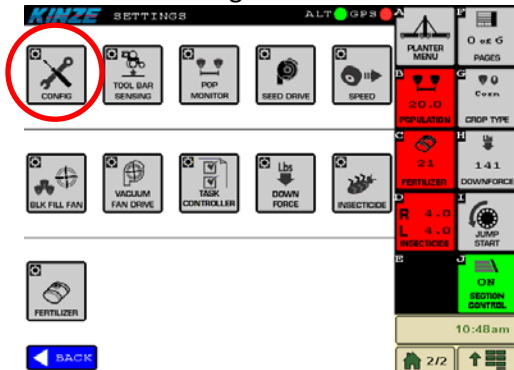
41. A screen will appear giving the update status. Each Motor Module will be updated one at a time.
42. This update could take up to 30 minutes depending on planter size.
43. Once the update is complete, you will be returned to the Update screen.
44. Verify that the correct version is now displayed beside the Motor Modules label.
45. If the correct version is not displayed, power down the display and planter and redo the update, make sure all conditions below are met.
 - a. Correct file is loaded on the USB stick
 - b. Alternator power was not disrupted during the upgrade
 - c. Tractor power was not disrupted during the upgrade
46. If the correct version appears for Motor Modules then select the Back button on the update screen.



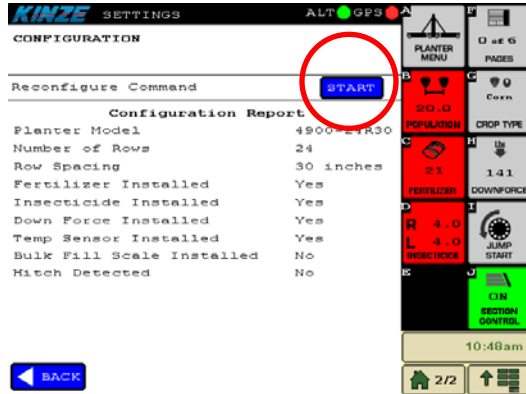
47. Then select the Settings button from the Planter Menu.



48. Then select Config.



49. Then select Start.



50. Step through the configuration process and ensure the planter is reporting all the rows.

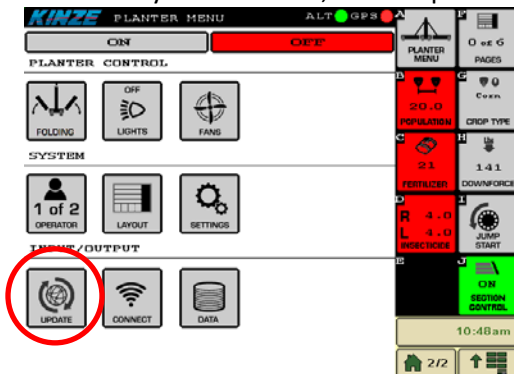
51. If rows are missing in the configuration process, shutdown the display and planter and restart. Then update the Motor Modules again ensuring the conditions below are met:

- Correct file is loaded on the USB stick
- Alternator power was not disrupted during the upgrade
- Tractor power was not disrupted during the upgrade

52. If all the rows are found, finish the configuration process and the Master Module will restart.

53. If the planter is a model year 2014, a Seed Sensor update will need to be done next. If your planter is a model year 2015, the Seed Sensors are already up to date and you can skip to step 62.

54. Once the system restarts, select Update from the Planter Menu.



55. Turn on the Alternator if it is not already on.

- DO NOT TURN THE ALTERNATOR OFF UNTIL THE SEED SENSOR UPDATE IS COMPLETE!**

56. Select the Upgrade button beside the Seed Sensor label as seen below.



57. A screen will appear giving the update status. Each Seed Sensor will be updated one at a time.

58. This update could take up to 1 hour and 30 minutes depending on planter size.

59. Once the update is complete, you will be returned to the Update screen.

60. Verify that the correct version is now displayed beside the Seed Sensor label.

61. If the correct version is not displayed, power down the display and planter and redo the update make sure all conditions below are met.

- Correct file is loaded on the USB stick
- Alternator power was not disrupted during the upgrade
- Tractor power was not disrupted during the upgrade

62. The updates are now complete; the final step is to clear the memory of the old versions off the display.

63. Below are instructions on clearing the version memory off the display you are using:

- Raven Viper 4
 - Go to the Viper 4 Main Menu
 - Select Configuration Settings (Icon with gears on it)
 - Scroll through the settings screens until you find the button that says VT.
 - Select this button.
 - Then select the second tab.
 - Then select the button that is labeled Clear All ISOBUS Data.
- John Deere
 - Go to the John Deere Main Menu
 - Select Message Center
 - Select Clean-up
 - Checkmark Controllers
 - Select Begin Clean-up

- c. CNH
 - i. Go to the CNH Main Menu
 - ii. Select Diagnostics
 - iii. Select VT
 - iv. Select NVM
 - v. Select Delete Folder
- d. Ag Leader
 - i. Go to the VT tab
 - ii. Select the Wrench
 - iii. Select Clear Virtual Terminal