Topcon X20
Spreader Setup for Variable-rate Application

Setup for Variable-Rate Application (VRA) and Spinner-disc Speed Control for Spreader Control program in the Topcon X20.

The following provides a check-list which can be used during startup:

1. Make sure there is power to the hydraulic control valves
   a. Use a multi-meter if necessary to check for proper voltage (typically 12-VDC)
   b. Check for loose harness connections; if necessary use electric grease to ensure good connection at each connector.
2. Make sure you have power to the ECU (red light should be ON when using the Mini ECU) and a good connection to the X20 from the ECU.
3. Polarity can be changed within the Spreader Control program to the proportional valves. This option can be used if the conveyer is not operational due to the wiring being reversed to the hydraulic valve connection.
4. Make sure the 'Master Switch is ON' (should be green).
5. For the conveyer to operate while the tractor is sitting still the 'Manual Speed' button should be ON; however the spinners should still run as long as hydraulic oil is getting to them and the Master Switch is ON.
6. The conveyer and spinners can be switched on/off by touching the respectable icons on the Spreader Control screen, just make sure there on.
7. Make sure the product density has been measured and typed correctly into the proper setup screen.
8. It is always good to check spinner-disc and conveyer speed with a hand tachometer to ensure 1) the Spreader program setup for these two speed inputs is correct, and 2) the Spreader program operating screen is reporting the correct speeds during operation.