XEED QUICK START GUIDE
2017

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# TABLE OF CONTENTS

## INTRODUCTION

## XEED SYSTEM COMPONENTS
- XEEDGATE
- BASEMODULE
- X-LINE MODULE
- BLACKEYE SENSOR

## ISOBUS XEED OPERATION
- ISOBUS XEED INITIAL SETUP/STARTUP
- ISOBUS XEED FIELD OPERATION

## iPad XEED OPERATION
- XEED ON THE iPad
- INSTALL SEEDVIEW APP FROM THE APP STORE
- iPad XEED STARTUP
- CALIBRATE SPEED SENSOR
- iPad XEED FIELD OPERATION
- SM-SeedView TOWER VIEW
- SWITCH FROM TOWER HEAD VIEW TO BAR GRAPH VIEW
- SM-SeedView BAR GRAPH VIEW
- ADJUSTABLE TOWER CALIBRATION PROCEDURE

## XEED SYSTEM DRAWINGS
- 8012 TXB WITH 80 SEED SENSORS ON 10 TOWERS AND 80 FERTILIZER SENSORS ON 10 TOWERS
- 8012 TXB WITH 30 SEED SENSORS ON FRAME AND 80 FERTILIZER SENSORS ON 10 TOWERS
- 8012 TXB WITH 10 SEED SENSORS ON 10 TOWERS AND 10 FERTILIZER SENSORS ON 10 TOWERS
- 8012 TXB WITH 80 SEED SENSORS ON 10 TOWERS AND 10 FERTILIZER SENSORS ON 10 TOWERS
- ULTRAPRO II WITH 30 SEED SENSORS ON 10 METERS
INTRODUCTION

Thank you for purchasing a new SeedMaster Xeed System. This manual will assist you in operating your Xeed System efficiently.

If you encounter any problems, contact your dealer for clarification or correction. It is important to us and to you that all SeedMaster products maintain a solid reputation.

We are building our company’s reputation not only on a quality product, but also on providing quality advice and fast response to service requirements. Our objective is to keep a high resale value on used units, so the positive image you pass on to your neighbors is as important to you as it is to us in the long term.
XCEED SYSTEM COMPONENTS

XEEP GATE
The intelligent, easy-to-install XeedGate wireless gateway is the perfect wireless access point for the XeedSystem. It offers next-generation Bluetooth Smart technology. The XeedGate is ISOBUS compatible, so if you have an ISOBUS Virtual terminal, you can use it with the basic features or connect it simultaneously with an iPad.

BASEMODULE
BaseModule is a 4-channel signal receiver to collect ground speed, fan rpm and implement lift or lower data. The BaseModule has a 4 NPN open collector input for most the commonly used sensors and ground speed radar. With its two built in CAN BUS connector the BaseModule links to the XeedSystem easily.

X-LINE MODULE
The X-Line Module ECU collects and transmits the sensors data to the XeedGate gateway. The ECU communicates with the sensors through X-Line, address and diagnoses them. Furthermore, the module compares seed sensor data for easier identification of seeding failures.

BLACK EYE SENSOR
Small or big, slow or speedy, all seeds are well detectable with the one-of-a-kind BlackEye sensors. BlackEye is the first smart seed sensor in the industry that continuously adapts to the changing environment during seeding process. Time to time intelligently adjust itself to the optimum level of sensitivity, where actual seed flow becomes the best detectable and blockages are instantly alarmed. A unique novel seed sensing method enables differentiation between the seed rate reduction due to eventual blockage and simple rate changes (e.g. due to VRA). Only real blockages are alarmed within one second even in case of the smallest seeds. Intelligent Dust Compensation (iDC) acts effectively against the reduction of good sensor performance caused by the dust developing on sensor optic surfaces and results in a balanced operation of sensors without cleaning for an extended long period of operation time.
ISOBUS XEED is designed as a simple and easy to use blockage detection system. The ISOBUS Xeed will simply tell you when you have a blocked run. It will also show if there is no product flow to a tower (Distributor Head).

ISOBUS XEED INITIAL SETUP/STARTUP
1. From your VT screen touch the Xeed/Digitroll working set button.
2. The System Build-Up page will appear, Touch the refresh button.
3. After the system refreshes please review the number of Seed and Fertilizer Distributor Heads for each X-Line Module installed a distributor head will appear. Also, review the number of Seed and Fertilizer sensors that appear.
   
   NOTE: If the system buildup does not appear correct please inspect cabling. If there is an error on either a sensor or X-Line module the LED light on the component should appear red or orange color or not lit. In some cases simply unplug and reconnect the sensor or X-Line Module then go back to the cab and touch the refresh button.

4. When its determined that the System Build-Up is correct, touch the arrow pointing to the right.
5. The X-Line Module Setup Page will appear. If this is the first time use, then you will need to number each module. If you have 10 seed and 10 fertilizer towers. Number them each 1 thru 10. Touch the grey box then enter the number for the corresponding module.
   
   NOTE: The X-Line modules are installed via the serial number where the lowest serial number is the first seed tower and the highest serial number is the last fertilizer tower.

11. After numbering all or reviewing the towers. Touch the check mark.
12. After Setup is complete touch "START USING XEEDSYSTEM"

13. The system is ready.
After touching Start Using XeedSystem the ISOBUS main run screen will appear. The active page below is displaying the Seed Button page.

**TOWER STATUS**
The tower status will change for different states of the system.

- **Green Status:** When the number is showing 10/10 in green this means that all 10 sensors on that tower are detecting product flow with NO blockages.
- **Red Status:** If the tower status is red it means that either there is a blockage on that tower or a sensor with potential damage. If it is showing 1/10 in red this means that one of the sensors on that tower has a blockage. Touch the Diagnostics button to view what sensor is blocked or errored. If it show 3/10 in red this means that 3 of the sensors are blocked and so on.
- **Grey Status:** If the tower status is displaying 0/10 in grey this means that there is no flow detected in that tower. Either you are not seeding down that tower or you have a blocked primary.

**NOTE:** This status does not alarm. Check your run screen periodically.

**BLOCKAGE ALARM**
The blockage alarm will appear when the system detects a blockage. If there are no alarms present it will display either that Seeding is in progress or that the implement is lifted.
IMPLEMENT LIFT
The implement lift section display when the implement is in the ground or if the implement is lifted. The Base Module determines the state of the implement from the ISO Drill ECU implement height switch. If the machine is not equipped with a ISO Drill ECU a proximity sensor is used to determine the position.

SETTINGS BUTTON
The settings pages allow to change the different settings for both the seed and fertilizer sensors. It allows access to the System Build-Up page and X-Line Module Binding page.

SEED SETTING PAGE
The seed settings page allows you to change the Seed Type and Blockage Detection Sensitivity.

THE RECOMMENDED SENSITIVITY IS EXTRA LOW

NOTE: if you change the seed type ensure the sensitivity is set to Extra Low.

FERTILIZER SETTING PAGE
The Fertilizer settings page allows you to change the Fertilizer Type and Blockage Detection Sensitivity.

THE RECOMMENDED SENSITIVITY IS EXTRA LOW

NOTE: If you change the fertilizer type ensure the sensitivity is set to Extra Low.

SYSTEM SETTINGS PAGE
The system settings page allows you to walk thru the system build-up and/or the X-Line binding pages.

Please see ISOBUS XEED INITIAL SETUP/STARTUP section for more information.

NOTE: if you are diagnosing an issue and/or unplug and plug back in sensors or X-Line modules make sure you go to the System Build-Up page and touch the refresh button before continuing.
DIAGNOSTICS BUTTON

Touch the diagnostics button to quickly view any blocks or error in the system. If there are multiple errors, you can touch the right arrow to page thru the error list.

SEED BUTTON

Touch the Seed button to view the status of the Seed Sensors. If the seeder works properly, clear seeding display shows momentarily state of seeding, how many rows are seeding, tramline rows, etc.

FERTILIZER BUTTON

Touch the Fertilizer button to view the status of the Fertilizer Sensors. If the seeder works properly, clear seeding display shows momentarily state of seeding, how many rows are seeding, tramline rows, etc.

INFORMATION BUTTON

The information button will display the ISOBUS information and firmware.
iPad XEED OPERATION

XEED ON THE iPad
An iPad can be used simultaneously with the ISOBUS Xeed setup. The iPad will not only show blocked runs but will show product flow information. When using an iPad along with the ISOBUS the settings are all set VIA the iPad.

INSTALL SM-SEEDVIEW APP FROM THE APP STORE
1. go to the app store on your iPad
2. in the app store search “SM-SeedView”
3. install the SM-SeedView App
4. Open the SM-SeedView App
5. Touch continue on the “Getting Stated Page”
6. Create a user for the App. Enter all required information.
7. Touch Continue
8. Create a pass code for the app
9. Your Xeed System is ready to use. You will be at the “Available XeedGATE” page
10. Continue to next section.....

iPad XEED STARTUP
1. Power up iPad
2. Open SM-SeedView app
3. The Available XeedGATEs page will appear.
4. Choose your XeedGATE

NOTE: If the XeedGATE doesn’t appear try the following in order:
   1. Touch the refresh button
   2. Close app and reopen. (Double tap iPads home button and swipe app up to close)
   3. Close app and go to settings and ensure that Bluetooth is enabled
   4. Close app and cycle power to the XeedGATE
5. Your XeedGATE machine profile will be setup from factory. Touch on the available machine profile from the Profile Selection Page.

NOTE: If your profile is not setup see Full Xeed Manual for more information.

6. The SM-SeedView App is ready to go.
7. You will need to calibrate the speed sensor before continuing.
CALIBRATE SPEED SENSOR

1. Touch the settings button in the top right hand corner
2. Touch “Seeding Control” on the right side
3. Touch “Speed Settings”
4. Touch “Calibration”
5. Enter a known distance that you will be driving. In the middle of the screen (Distance)
6. Touch the “Start” button
7. Drive the distance then park
8. Touch the “Stop” button
9. Speed calibration complete.
10. Touch the hand in the bottom right hand corner then choose the same icon above to return to the main run screen.

iPad XEED FIELD OPERATION

After selecting the machine profile the iPad main run screen will appear. The view below is the tower view. You will run either in the tower view or bar graph view.

SM-SeedView TOWER VIEW
SWITCH FROM TOWER HEAD VIEW TO BAR GRAPH VIEW

Touch the icon in the bottom far right corner. Then choose the desired view.

SM-SeedView BAR GRAPH VIEW

NOTE: SEE DIGITROLL iSeed USER MANUAUL FOR MORE DETAILED INFORMATION
ADJUSTABLE TOWER CALIBRATION PROCEDURE

If your machine is equipped with center cone adjustable towers please follow the procedure below to perform a calibration on the tower. The calibration is intended to improve row to row variability in the tower. The center cone adjustment will aid in balancing the distribution of the product flowing to each row in the tower. Please note that different product at different rates flow differently and may need to be calibrated accordingly.

1. Open the SM-SeedView APP
2. Go to the Bar Chart view
   - Touch the icon on the bottom right then the Bar Chat icon
3. Set the Bar Chat mode to seed count
   - Touch the wrench then touch the sum button
4. The SM-SeedView app is ready for product flow.
5. In a stationary position, lower the openers and run product through the towers for 30 to 45 seconds at the desired in field rate.
   **NOTE:** if you are variable rating the product run it at the average rate of the VR map.
6. After running product lift the openers. After lifting the openers the bar graph will appear grey.
   **NOTE:** It is important to lower and lift the openers as this enables and disables the seed count
7. Touch on the tower circle in the lower left display area. This will highlight the runs for the specific tower.
8. From the image to the right you can see that the lower numbered runs are getting more product. **NOTE:** Sensor one of each tower will be labeled as sensor 1. In the bar graph this is represented from left to right. In the image sensor 49 is the 1st sensor in that tower.
9. You will adjust the center cone towards the runs that have a higher seed count. In the example above you would move the center cone towards run 51. Run 51 is the center of the runs with a higher seed count.
10. To adjust the tower, loosen the center nut located on the top of the tower insert. There are rings etched into the top of the tower to help determine how far the center is/was moved. Move one ring at time.
    **NOTE:** Moving the center to much can cause an in balance in the tower to the opposite side.
11. After adjusting the towers in stationary position repeat the process while doing a couple pass in the field.
XCEED SYSTEM DRAWINGS

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