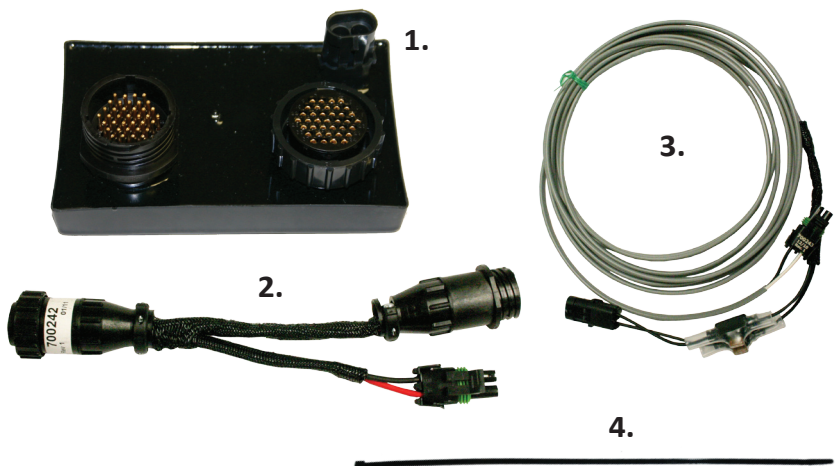


Power Module Installation Instructions

- Parts included:
1. Power Module (700263)
 2. Power Splitter to 2-pin WP (700242)
 3. Extension 2-pin WP, Fused (700243)
 4. 5 - Tie Cables (900116)

Important: Always use the 2-pin WP fused extension harness (700243) in the Power Module installation. The fuses are required to protect the Power Module in the event of certain types of overloads. Use of an un-fused extension harness may result in eventual failure of the Power Module.



The Power Module will be installed between the 37-Pin harness on the planter. The back of the planter is the preferred location to connect the Power Module and should always be used whenever possible. Power Module can power up to 32 WaveVision Sensors.

Step 1 Locate and unplug the 37-pin harness on your planter.



Step 2 Place the Power Module in between the two 37-pin connectors.

Step 3 Use the power extension (700243) to run power from the Power Splitter (700242) in the cab of tractor or from the Aux Power port on your planter.



Step 4 Secure cables and Power Module using supplied cable ties.

Other installation considerations:

- **The Power Module will only power the sensors and consume battery power when the monitor is on.**
- If you have a Dickey-john monitor or Deere Bauer planter you will need the Dickey-john adapter (725234) to connect the Power Module.
- Any SeedStar planter without a 37 pin connector will need to use the appropriate Wedgebox Adapter harness. See the Metrapack Reference Table on page 2.
- The LED on the Power Module is only on when the Module is powering the sensors.

Questions? Visit www.precisionplanting.com or call us at 309-925-5050.





Power Module Table

WaveVision Power Module Tables

WaveVision Power Module & Adapter Harness Matrix for Planters with a 20/20 SeedSense® System:

Number of Rows:	Number of WaveVisions	20/20 SeedSense on JD Planter	20/20 SeedSense on Kinze Planter
4 Row Planter	4	Nothing Needed	Nothing Needed
6 Row Planter	6	Nothing Needed	Nothing Needed
8 Row Planter	8	Nothing Needed	Nothing Needed
12 Row Planter	12	Nothing Needed	700266 10V Power Module Required
16 Row Planter	16	725667 Adapter Harness Required	700266 10V Power Module Required
24 Row Planter	24	725667 Adapter Harness Required	700266 10V Power Module Required
32 Row Planter	32	725667 Adapter Harness Required	700266 10V Power Module Required

Notes for 20/20 SeedSense®:

1. The Smart Connector and Power Module should always be connected to the 37-pin connector closest to the row units.
2. A Power Module installed with a Smart Connector will require a 24" 37-pin extension (725272) to be installed between the SC and the Power Module.

WV Power Module Matrix for Non-20/20 SeedSense® Systems:

Number of Rows:	Number of WaveVisions	Dickey John or JD Computrac	John Deere SeedStar
4 Row Planter	4	Nothing Needed	Nothing Needed
6 Row Planter	6	Nothing Needed	8V or 10V Power Module Required
8 Row Planter	8	8V or 10V Power Module Required	8V or 10V Power Module Required
12 Row Planter	12	8V or 10V Power Module Required	8V or 10V Power Module Required
16 Row Planter	16	8V or 10V Power Module Required	8V or 10V Power Module Required
24 Row Planter	24	8V or 10V Power Module Required	8V or 10V Power Module Required
32 Row Planter	32	8V or 10V Power Module Required	8V or 10V Power Module Required

Notes for non-20/20 SeedSense® systems:

1. The Smart Connector and Power Module should always be connected to the 37-pin connector closest to the row units.

Metrapack Reference Table

John Deere	SeedStar Monitor	Metrapack
Planter:	Rows:	725209
-2002 Drawn or 3-Point	4-15	Metrapack Grey (725209)
2003+ Drawn or 3-Point	4-15	Metrapack White (725282)
2011	Up to 16	Metrapack White (725282)
2011	17-24	Metrapack White (725624)
2011	25-32	Metrapack White (725626)

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Troubleshooting Guide

If there is a problem with the operation of the Power Module, follow these steps to identify the source and likely remedy.

1. *Is the Power Module's red LED indicator on?*
 - Yes. Continue to step 4.
 - No. Unplug the 2-pin Weather Pack connector from the Power Module and use a voltmeter to check that the voltage between pins A and B on the harness connector is at least 12 volts. If the measured voltage is less than 12 volts then check this wiring or the vehicle's battery system. If the voltage on this connector is OK then continue to step 2.
2. *Is the voltage on pin 27 and/or 29 of the 37-pin connector connected to the Power Module that is coming from the monitoring system at least 7 volts? (Note: On certain monitoring systems this voltage may need to be checked while the 37-pin connector is connected to the Power Module.)*
 - Yes. Disconnect the 37-pin row unit harness connector from the Power Module and then disconnect and reconnect the 2-pin WeatherPack connector on the Power Module and continue to step 3.
 - No. Check the wiring and the module that is supplying this voltage to the Power Module. If these check OK then disconnect the 37-pin row unit harness connector from the Power Module and then disconnect and reconnect the 2-pin WeatherPack connector on the Power Module and continue to step 3.
3. *Is the Power Module's red LED indicator on?*
 - Yes. Check the row unit harness and all loads for the cause of a short circuit or overload on the Power Module supply. Use an ohmmeter to check the resistance between pins 27 and/or 29 and 28 and/or 30. If the cause of the overload is not found in the harness then disconnect each of the loads to find the problem. If the Power Module had been overloaded, it may take several minutes after removing the overload for it to recover and generate the normal output voltage.
 - No. Replace the Power Module.
4. *Is the Power Module output voltage measured at the load furthest away from the Power Module greater than 7.5 volts?*
 - Yes. If the Power Module output voltage is greater than 10.5V then replace the Power Module. Otherwise continue to step 6.
 - No. Continue to step 5.
5. *Is the voltage on pin 27 and/or 29 of the 37-pin connector connected to the Power Module that is coming from the monitoring system at least 7 volts? (Note: On certain monitoring systems this voltage may need to be checked while the 37-pin connector is connected to the Power Module.)*
 - Yes. Check the row unit harness and all loads for the cause of an overload on the Power Module supply. Use an ohmmeter to check the resistance between pins 27 and/or 29 and 28 and/or 30. If the cause of the overload is not found in the harness then disconnect each of the loads until the Power Module output voltage rises above 7.5 volts. If the Power Module had been overloaded, it may take several minutes after removing the overload for it to recover and generate the normal output voltage.
 - No. Check the wiring and the module that is supplying this voltage to the Power Module.
6. *Are none of the WaveVision seed sensors being detected by the monitoring system before seeds are being planted?*
 - Yes. Confirm that the monitoring system connected to the Power Module is providing an 8V to 5V pulse signal on pin 27 and/or 29 of the 37-pin connector connected to the Power Module. (Note: On certain monitoring systems this voltage may need to be checked while the 37-pin connector is connected to the Power Module.) Confirm that the Power Module power output on pins 27 and 29 of the 37-pin connector connected to the row harness is providing approximately 10V to 5.6V pulse signal in synchronization with the 8V to 5V pulse signal from the monitoring system. If the power supply pulse to the row units does not match the power supply pulse coming from the monitor then replace the Power Module.
 - No. The Power Module is OK. The cause of the problem is not related to the Power Module.

WaveVision is not compatible with these monitors:

Agco GTA	KPM I, II, III
Kinze Vision	Monosem MPM
SM400SE	GTA

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