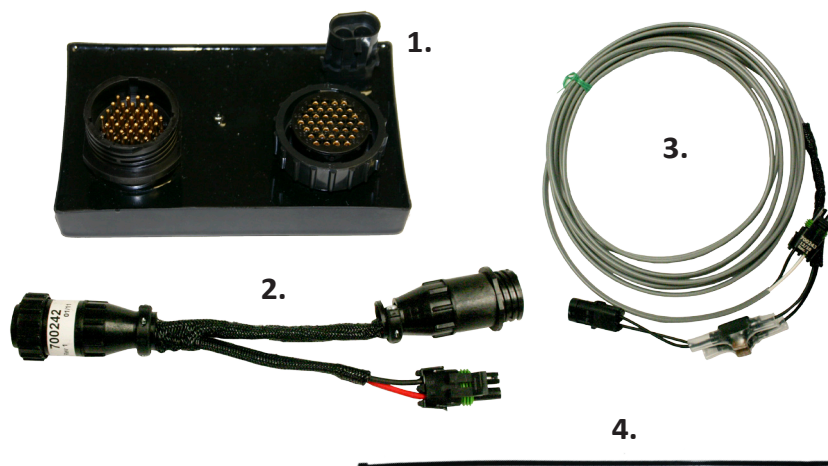


Power Module Installation Instructions

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. On systems with a Smart Connector, the power module is connected between the Smart Connector and seed tube side of the planter harness.
- 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. In some instances, a second power extension may be necessary to reach the power module. Refer to the power extension list on page 3.
- 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. 2012 Deere Bauer will need a Bulkhead harness and will not need a Dickey John Adapter. Check the Metripack reference table on page 3.
- Any SeedStar planter without a 37 pin connector will need to use the appropriate Wedgebox Adapter harness. See the Metripack Reference Table on page 3.
- The LED on the Power Module is only on when the Module is powering the sensors.

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Power Module Tables

WaveVision Power Module Tables

On 2020 systems with a Gen 2 Smart Connector (Smart Connectors built after 2012 planting season) a power module is not Necessary. The Gen 2 Smart Connector is capable of supplying voltage for 32 rows of WaveVision. This matrix is only for Gen 1 Smart Connector.

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.
3. **Note that 20/20 SeedSense systems with the new Gen II Smart Connector do NOT need a Power Module. John Deere systems WILL, however, still need the 725667 Adapter Harness.**

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.





Power Module Tables (Continued)

Metripack Reference Table

SeedStar Monitor John Deere Planter	Rows	Metrapack
-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)
2012 Deere Bauer	24-48	2012 Bulkhead Harness (725701)

Weatherpack Extension Reference Table

Type	Length (ft)	Gauge
2 Pin WP extension	10	14 gauge (725263)
2 Pin WP extension	25	10 gauge (727126)
2 Pin WP extension	40	14 gauge (727173)

Precision Planting Warranty & Liability Policy (Revision effective 7-1-10)

Warranties, Disclaimers, and Limitation of Remedies:

These terms and conditions represent the entire agreement between the parties hereto and there are no collateral, oral, or other agreements or understandings, unless expressly stipulated.

Precision Planting warrants that all Precision Planting products, equipment and merchandise are free from defects in material and workmanship. The term of the express warranty recited herein shall be limited to one (1) year from the date of sale by Precision Planting. This warranty shall only extend to the dealer if this warranty is properly presented to Customer. With respect to 20/20 SeedSense, AirForce and RowFlow, the express warranty recited herein shall only apply if such products are properly registered by the Customer.

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Some states or jurisdictions do not allow the exclusion or limitation of implied warranties, incidental damages or consequential damages; so the above limitations or exclusions may not apply to you.

Liability:

Customer assumes all liability for damages from accidents caused by or incurred in the use of transportation of said equipment. Customer agrees to indemnify and hold harmless the said Precision Planting, its officers, agents, and employees from any and all damages and/or liability to any person whomsoever arising out of or resulting from the use, storage, or transportation of said equipment by the Customer or anyone else while the equipment is in the custody of the Customer. The Customer acknowledges receipt of the equipment in good working condition and repair. In the event of any accident involving said equipment, Customer shall promptly furnish to Precision Planting a complete report in writing, with names and addresses of witnesses and parties involved and Customer shall make all reports required by law. Customer agrees to review and follow any published safety instructions in the product manual.

Notice of Non-Waiver:

The failure by Precision Planting, at any one or more time, to insist upon the strict performance by the Customer of the covenants, conditions and/or terms of this agreement, shall not be construed as a waiver of Precision Planting's right to demand strict compliance with and performance of all covenants, conditions and/or terms hereof. Notice of demand for strict compliance is hereby waived by the Customer, and time is expressly made of the essence of this agreement.

Choice of Law:

Any dispute or claim arising from or related to this Policy, or related to a product governed by this Policy, shall be governed by the laws of the State of Illinois.





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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