

vSet® Select

**Installation Instructions for
vSet Select Complete Dual Meter Assembly for John Deere
731006 (ODD Row) and 731007 (EVEN Row)**

Precision Planting®

vSet Select Meter Assemblies Bill of Materials

These instructions are included in the 731006 and 731007 Kits. See the appropriate table below for the Bill of Materials of each kit.

P/N: 731006

JD Dual Meter Assembly, Complete - ODD ROW

Part Number	Description	QTY
730438	ProShaft Cap	1
vSet Select Dual Meter Assembly, 2 vDrives and Corn Crop Kits installed		1
731158	JD SRM Mounting Bracket Kit	1
731204	JD Meter Mounting Hardware Kit	1
768307	JD Rear Post Assembly	1
768309	JD Rear Post Shim	1
768372	JD Meter Mount, Hopper Pivot Bushing	2

P/N: 731007

JD Dual Meter Assembly, Complete - EVEN ROW

Part Number	Description	QTY
730438	ProShaft Cap	1
vSet Select Dual Meter Assembly, 2 vDrives and Corn Crop Kits installed		1
731158	JD SRM Mounting Bracket Kit	1
731204	JD Meter Mounting Hardware Kit	1
768307	JD Rear Post Assembly	1
768309	JD Rear Post Shim	1
768372	JD Meter Mount, Hopper Pivot Bushing	2

Overview:

These instructions will cover the on-row unit steps to convert the planter to a vSet Select planter. These steps include installation or modification of the SRM, Row Unit Harness, SRM Mounting Bracket, and final mounting/placement of the dual meter assembly with correct orientation for accurate control by the 20/20 SeedSense. Note: Please refer to your vSet Select Owner's Manual for additional details regarding :

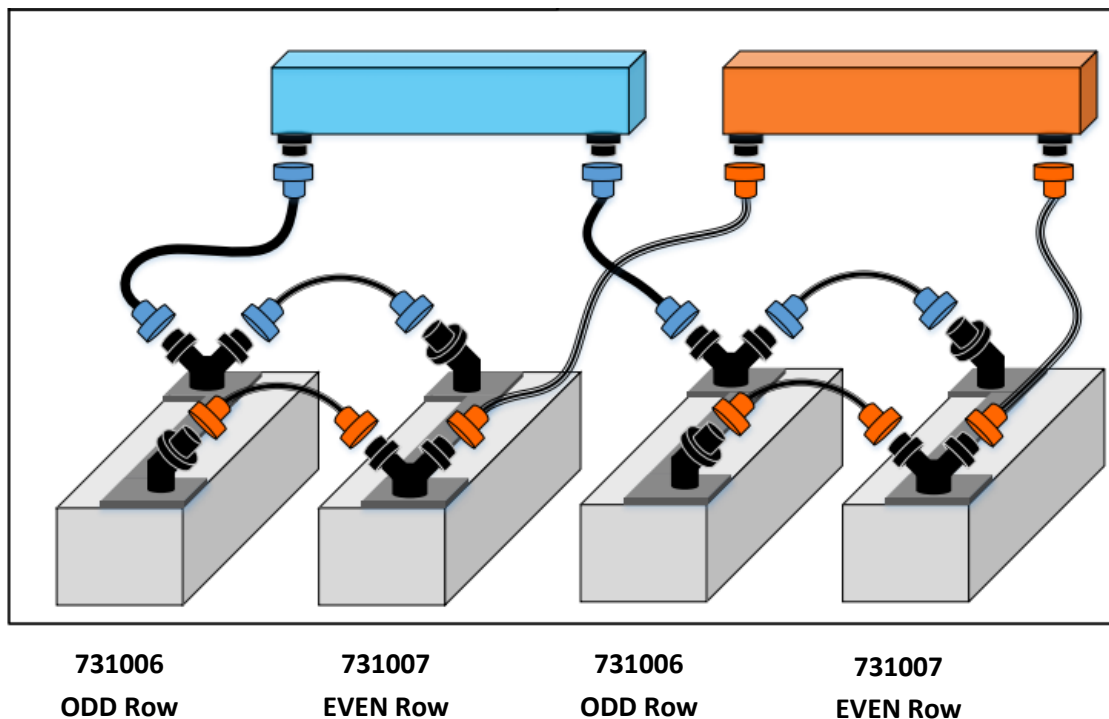
- Troubleshooting
- Maintenance
- Conversion to Single Hybrid Mode

Additional installation instructions regarding seed delivery, vacuum, and operation are available online at <https://cloud.precisionplanting.com/pubs/>

Use the diagram below to note the differing location of the seed delivery 'T' on odd and even rows. Placement of the meters on the correct rows will ensure proper control.

ODD rows will have the splitter or 'T' on the FRONT or BLUE meter.

EVEN rows will have the splitter or 'T' on the REAR or ORANGE meter.



Step 1

Install the SRM into the SRM mounting bracket. John Deere systems will use kit number 731158. This kit includes a John Deere specific bracket and hardware for mounting the bracket to the row unit as well as mounting the SRM to the bracket.

- a) The SRM will be installed with the Serial Number towards the ground and the wires pointing upward. Note – this is ‘upside-down’ compared to a standard installation. This orientation will not affect any aspect of SRM performance.
- b) For row units without a load sensor installed, it is recommended to remove the plug from the side of the SRM. Use a pair of wire cutters to snip the plug supports and insert the plug into the connector (see figures 1a and 1b).
- c) Insert the 5/16" x 1.75" bolt from the rear face of the bracket, through the SRM, and secure in place with the 5/16" Washer, 5/16" Lock Washer and 5/16" Hex Nut towards the interior of the row unit (see figures 1c and 1d).



Figure 1a



Figure 1b

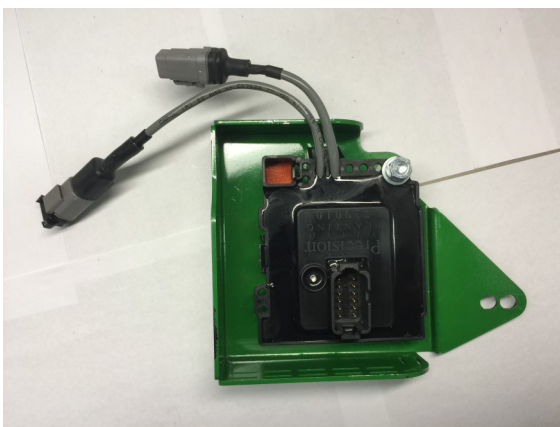


Figure 1c



Figure 1d

Step 2

Next install the SRM mounting bracket onto the row unit.

- a) The mounting hole on the 731058 JD SRM mounting bracket is 'elongated' to provide compatibility across production years of the JD forward row unit post.
- b) Use the 1" X 5/16" bolt, 5/16" washer and 5/16" Locknut from the 731202 hardware kit to secure the bracket to the left hand row unit post with the bolt head toward the outside of the row unit as shown.



Figure 2a

Mounting hole seen from outside of row unit.



Figure 2b

Step 3

When installing vSet Select on a planter that already has the SRM infrastructure installed for vDrive or Deltaforce, the Row Unit Harness must be relocated from the top right hand parallel arm (when viewed from the back of the row unit) to the top LEFT hand parallel arm. The SRM backbone harness may need to be reoriented so that the plug is at the correct parallel arm.

NOTE: Do not connect the 12-pin Deutsch connector to the SRM yet.



Figure 3

Step 4

Replace the seed hopper mounting hardware using the 731204 hardware kit. Some row units may accept the meter assembly without modification. Row units with 60mm bolts and all ME5 row units will require updating.

- Install the M16 washer onto the M16x55 bolt and insert into the row unit post from outside the row unit.
- Install the hopper pivot bushings (768372) onto the M16 bolt and secure from the inside using the M16 lock nut. Tighten to 160 lb-ft.



Figure 4

Step 5

For cable drive systems, remove the locking peg from the cable drive and the cable from the drive mechanism. Place the Proshaft Cap (730438) firmly into the hole and re-insert the locking peg to protect the cable drive from debris. Alternately, you may remove the hex shaft and cable drive transmissions.



Figure 5

Step 6

Install the JD Rear Post Shim (768309) and the Rear Post Assembly (768307). Use the table below for each row unit style. Do NOT use the JD Rear Post Shim (768309) when installing on planters with the AMVAC SmartBox system. The SmartBox mounting bracket accounts for this thickness.

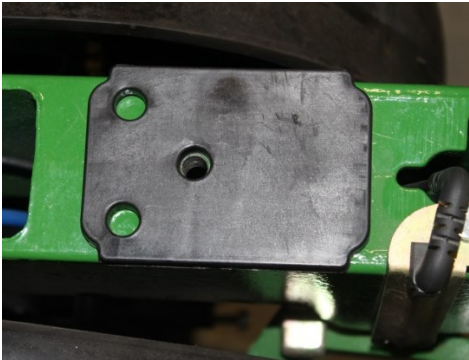
XP Row Units	Max Emerge 5 Row Units
	
Orient the Rear Post Shim (768309) with three holes towards the planter bar.	Orient the Rear Post Shim (768309) with the three holes towards the row unit.
	
Bolt the Rear Post Assembly (768307) to the shank. One M10 bolt will be used for the XP row units and securely until finger tight only.	Bolt the Rear Post Assembly (768307) to the shank. Both M10 bolts will be used for the ME5 row units and securely until finger tight only.

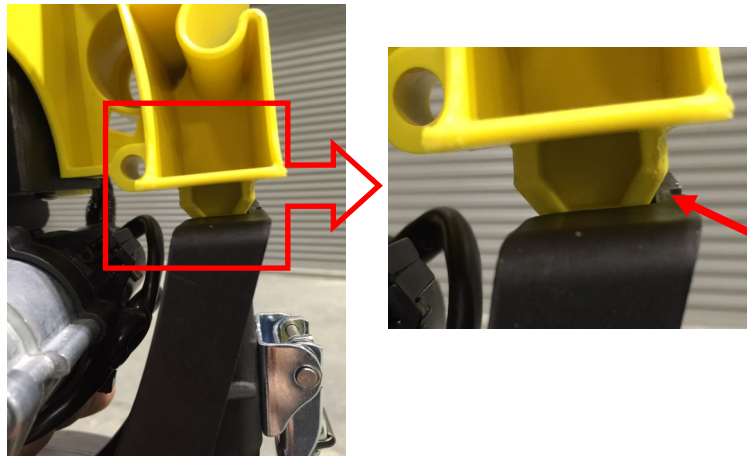
Figure 6

Step 7

Start with the mounting bolts finger tight. Use the Dual Meter Assembly to establish the final position of the Rear Post Assembly. Position the front spanner bracket of the meter assembly on the seed hopper mounts and provide forward pressure on the meter assembly. Adjust the Rear Post Assembly into the correct position and tighten the M10 bolts to 20 lb-ft. When aligning the rear post, begin by resting the angled portion of the hopper seat point of the dual meter assembly on the post (see figure 7a).

Note: This step ensures proper alignment of the meter with the seed tube. The meter should be held in position by rearward pressure from the hopper mounts. See figures 7b and 7c for illustrations of proper and improper mounting.

Figure 7a: When positioning the rear post, rest the angled portion of the hopper seat point of the dual meter assembly on the post.



Correctly Positioned Meter:
Applies force to the rear of the spanner bracket

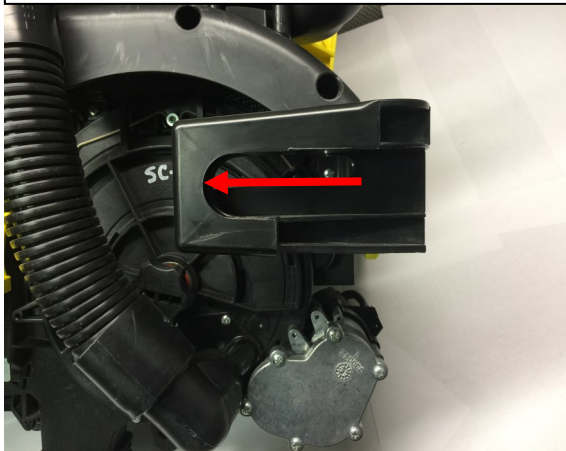


Figure 7b

Incorrectly Positioned Meter:
Meter rests on upper portion of spanner bracket

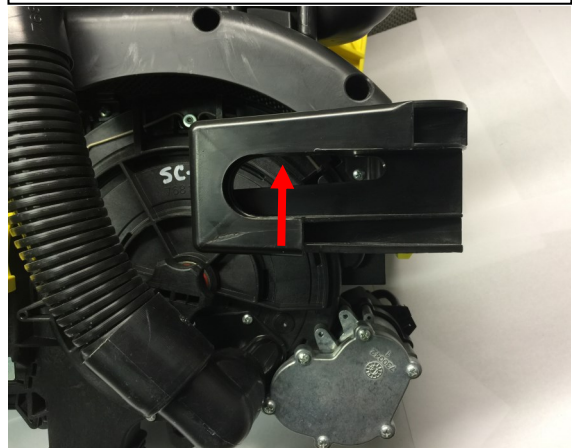


Figure 7c

Step 8

Adjust the height of the mini hopper latch assembly as needed. Do not over tighten.

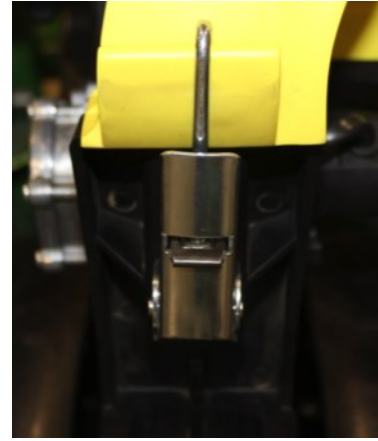


Figure 8

Step 9

The vSet Select meter has three different options for mounting the boot to facilitate adapting to different row units. Check the position of the boot. It should be 1/8" to 1/4" to flush from the top of the shank. Do not allow the boot to crimp or bunch. Proper placement ensures that debris is prevented from entering the seed tube.



Figure 9a

Correctly Installed Boot



Figure 9b

Incorrectly Installed Boot



Figure 9c

Step 10

Complete the installation by connecting SRM harnessing.

1. Route the Row Unit Harness and connect the 12-pin Deutsch into the SRM.
2. Connect DeltaForce cylinders, load sensor, and any auxiliary sensors as applicable.
3. Install the vDrive connector on the Row Unit Harness to the 6-pin Deutsch receptacle on the side of the vSet Select Dual Meter Assembly as shown in Figure 10a.
4. Tie all loose and unused cables to the SRM mounting bracket using the available slots in the bracket (see Figures 10b and 10c).



Figure 10a

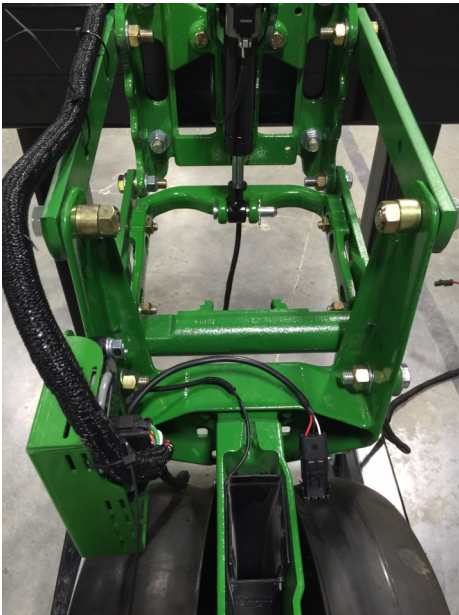


Figure 10b



Figure 10b