

vSet® Select

**Installation Instructions for
vSet Select Upgrade Dual Meter Assembly for Kinze
731051 (ODD Row) and 731052 (EVEN Row)**

Precision Planting®

vSet Select Meter Assemblies Bill of Materials

These instructions are included in the 731051 and 731052 Kits. See the appropriate table below for the Bill of Materials of each kit.

P/N: 731051

Kinze Dual Meter Assembly, Complete - ODD ROW

Part Number	Description	QTY
vSet Select Dual Meter Assembly, 1 vDrive and No Crop Kits installed		1
731159	KZ SRM Mounting Bracket Kit (includes HDW kit 731203)	1

P/N: 731052

Kinze Dual Meter Assembly, Complete - EVEN ROW

Part Number	Description	QTY
vSet Select Dual Meter Assembly, 1 vDrive and No Crop Kits installed		1
731159	KZ SRM Mounting Bracket Kit (includes HDW kit 731203)	1

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

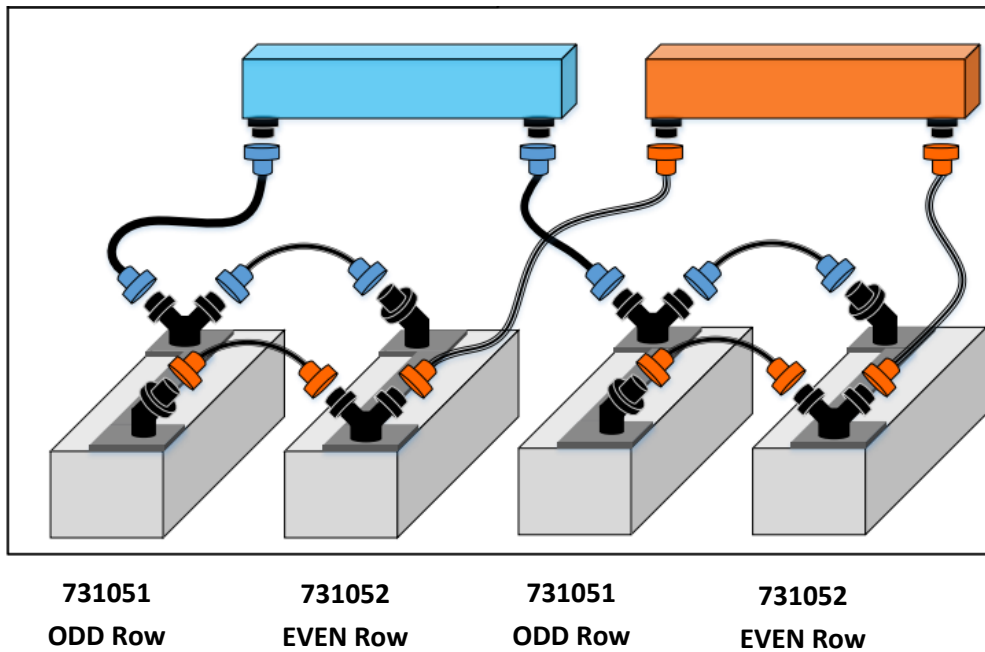
Additional installation instructions regarding seed delivery, vacuum, and operation are available online at

<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

Remove the two (2) screws that attach the pinion cover to the vSet meter housing. Discard the pinion cover and screws.

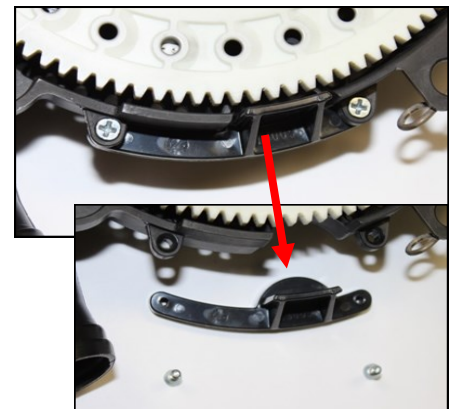


Figure 1

Step 2

Align the vDrive motor to the four (4) holes in the vSet meter housing.

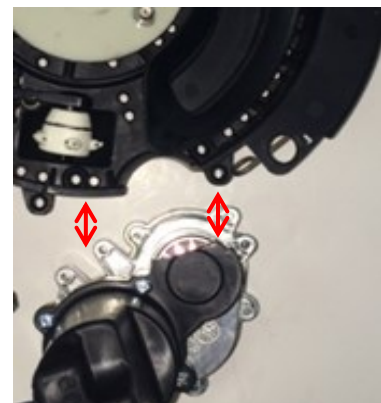


Figure 2

Step 3

Using the four (4) provided screws, attach the motor to the housing.

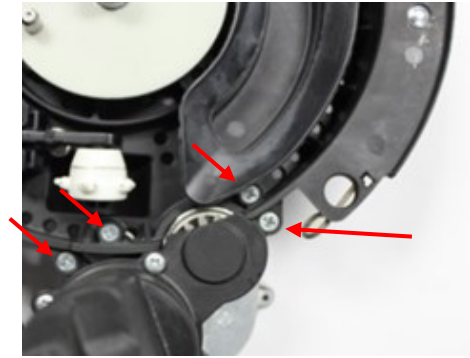


Figure 3

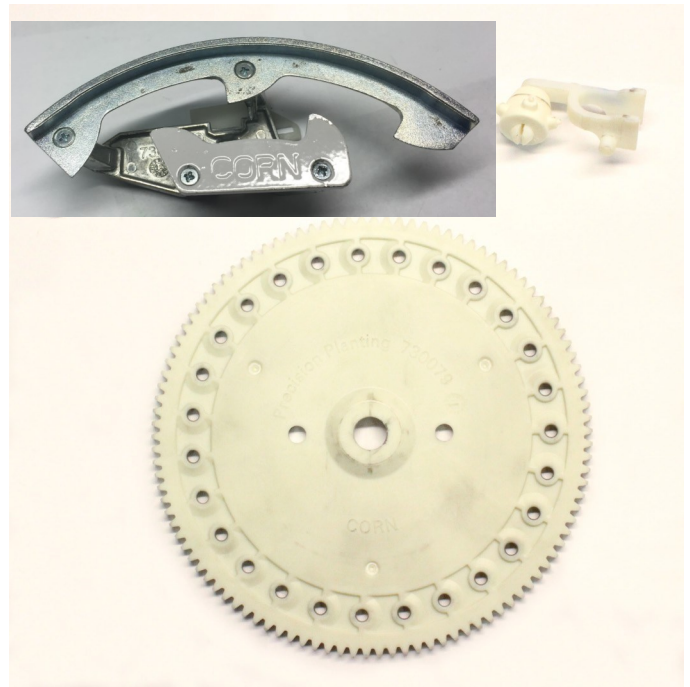
Step 4

Install the 731060 vSet Select vDrive Finishing Kit according to the included instructions to properly retain and orient the vDrive harnessing and connector.

Crop Kit Notes

The 731216 (Corn) and 768342 (Soybeans) kits are available for order to enable upgrading from a vSet meter to a vSet Select meter. The vSet Select meter is designed using the vSet 2 meter housing as its foundation. The vSet 2 meter has three crop-specific components: the disk, ejector, and singulator. All three items will need to be changed whenever you change the crop you are planting. See the vSet and vSet Select support pages at <http://precisionplanting.com> for additional information.

Customers that have vSet Classic meters can use their existing meter disks and singulators. The vSet Classic ejector is not compatible with vSet Select.



Step 5

To install the vSet 2 ejector, start by inserting it into the housing behind the meter plate. Seat the bottom peg into the spring before bending the plastic into place. To remove, apply pressure to the end of the bracket that holds it in place.



Figure 5

Step 6

Align the disk and slide the cotter pin into place. The pin will have the least amount of resistance if inserted vertically. The meter will have shims inserted onto the meter hub. Four shims are included from the factory. Adjust as necessary after the vDrive and disk are installed. The shimming process is at the end of the manual.

When inserting the disk be sure not to pinch or curl the vacuum seal. If there are any cracks or broken seams on the seal replace immediately.

To remove the cotter pin, hold the disk in place and pull the cotter pin with it standing vertical similar to the image below. Do not misplace the cotter pin. Also, be sure to leave the disk shims under the disk in place when removing.



Note: Removing and Reinstalling the Singulator

The singulator can be removed from the meter cover by releasing it from the axial spring. Support the singulator under spring with your index finger and pull back on release tab with thumb.



Release



Pull back on the release tab and the singulator will "pop" out

To re-install the singulator, insert the singulator frame into the bottom clip first, then press it into the top clip.



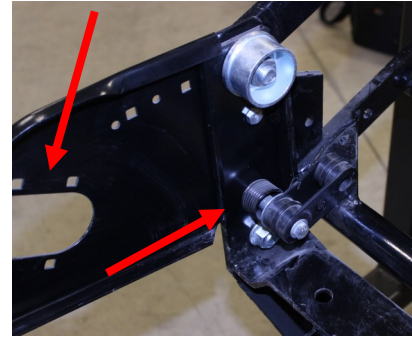
Bottom Clip

Top Clip

Replace all parts in the same manner as they were removed. Ensure the singulator base is pushed all the way down under the spring tabs.

Step 7

All chain tensioner assemblies and meter drive sprockets must be removed from the row unit prior to beginning the installation



Step 8

Install the SRM into the SRM mounting bracket. Kinze systems will use kit number 731159. This kit includes a Kinze specific bracket and hardware for mounting the bracket to the row unit as well as mounting the SRM to the bracket.

- 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.
- 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 8a and 8b).
- 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 8c and 8d).



Figure 8a



Figure 8b

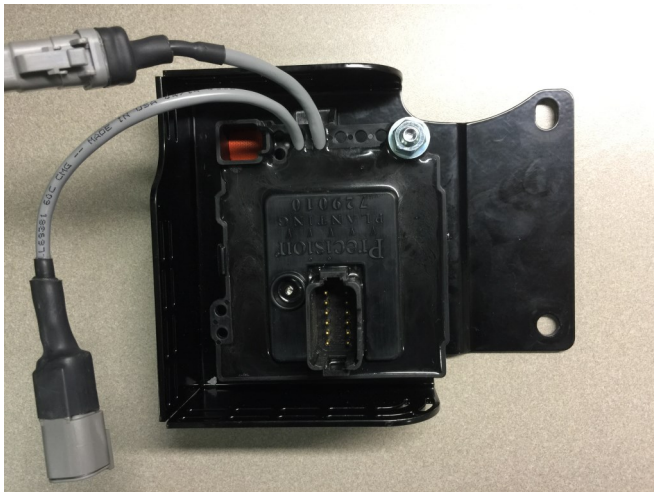


Figure 8c



Figure 8d

Step 9

Next install the SRM mounting bracket onto the row unit.

For REAR or PULL rows:

- a) The SRM mounting bracket will mount onto the row unit on the LEFT where the row unit stop is installed.
- b) Secure the bracket to the left hand row unit post reusing the original row unit stop hardware.
- b) On row units with the chain tensioner removed, replace the longer chain tensioner bolt with the included 1.75" x 5/16"-18 bolt and 5/16" Lock Nut.

Replace longer chain tensioner bolt with included 1.75" x 5/16"-18 bolt and 5/16" Lock Nut.

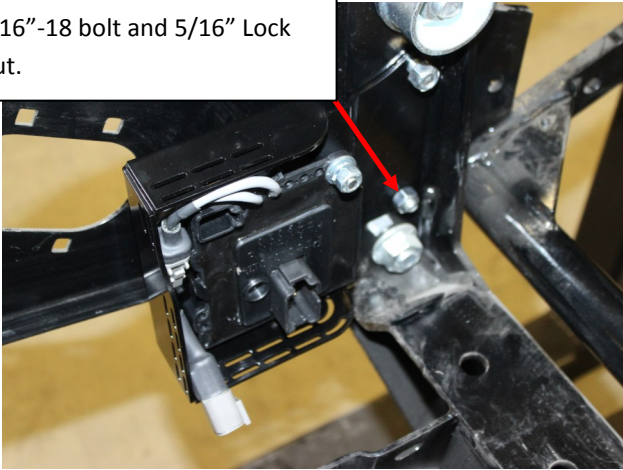


Figure 9a

Mounting holes seen from outside of row unit.

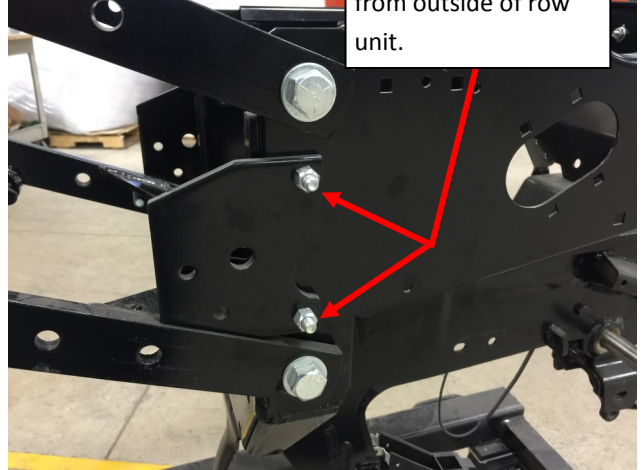


Figure 9b

For FRONT or PUSH rows:

- a) The SRM mounting bracket will mount onto the row unit on the LEFT hand side, when viewed from the rear, below the seed hopper mounts.
- b) Using a drill with a 3/8" drill bit, drill a hole through the row unit panel using the holes present in the row unit upright post as a guide.
- c) Secure the bracket to the left hand row unit post using the provided 5/16"-18 x 1.75" bolts and 5/16" Lock Nuts.



Figure 9c

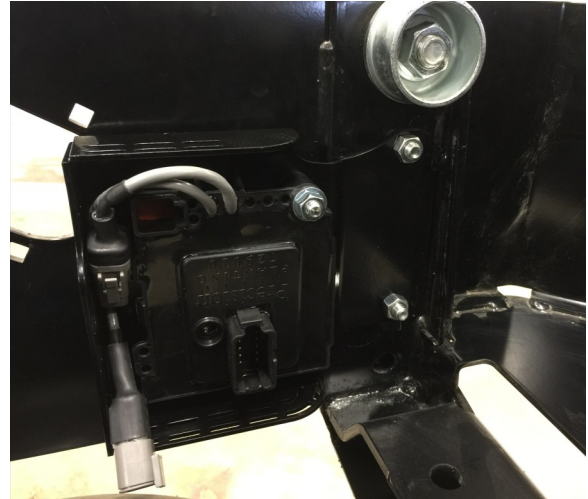


Figure 9d

Step 10

When installing vSet Select on a planter that already has the SRM infrastructure installed for vDrive or Deltaforce, the Row Unit Harness may need to be relocated to align with the SRM and Row Unit Harness installation. The SRM backbone harness may need to be reoriented so that the plug is at the correct parallel arm.

Step 11

Next connect the 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. Tie all loose and unused cables to the SRM mounting bracket using the available slots in the bracket (see Figures 11a and 11b).

Push Row Unit

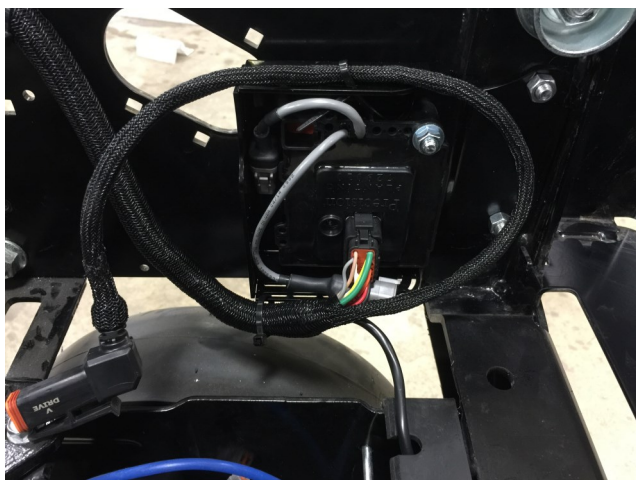


Figure 11a

Pull Row Unit

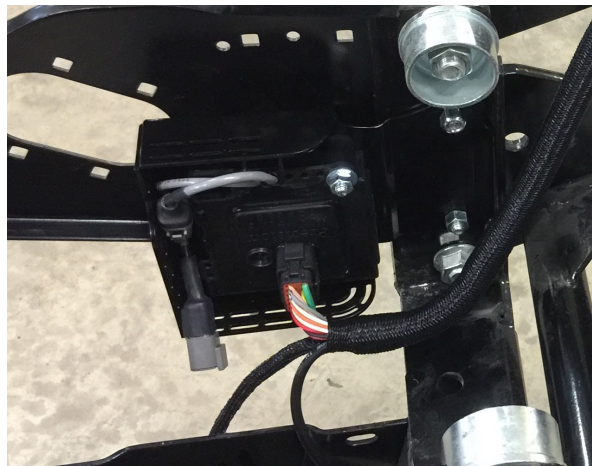


Figure 11b

Step 12

Install the dual meter assembly into the row unit.

Check for clearance between the meter assembly and the row unit frame, SRM bracket and row unit harness.

Check for proper alignment of seed release point of dual meter over seed tube.

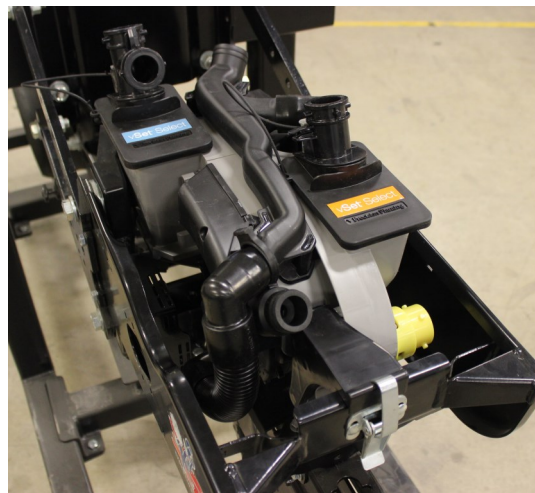


Figure 12

Step 13

Plug the vDrive connector on the row unit harness into the 6-pin Deutsch receptacle on the side of the vSet Select Dual Meter Assembly.



Figure 13

Step 14

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

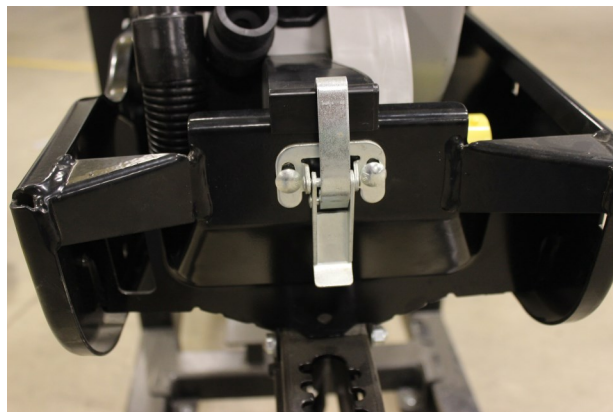


Figure 14

Step 15

The disk should be shimmed between each plane of the housing. The standard number of shims required is 4—5. View the surface of the disk with respect to the gauge. The disk should land between the lower and upper planes as shown by the arrows in figure 17a. Hold the disk flat against the center drive plate and add or remove shims until the disk is within the upper and lower planes as shown in figure 17b. Once shimmed, rotate the disk 180 degrees to verify that it is still appears between the upper and lower planes.

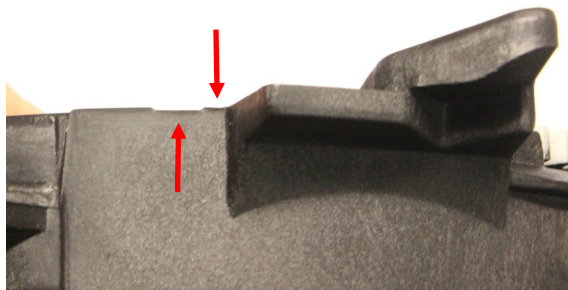


Figure 15a



Figure 15b