

mSet™ vSet® Select

Kinze Seed Delivery Finish Kit Installation

Precision Planting®

Kinze Seed Delivery Finish Kit Installation

Applies to Kinze planter models:

Kinze	3600 & 3660	Rows	Row Spacing
		12	30"
		16	30"
		12	36/38"
		12/23	15"
		12/24	15"
		16/31	15"
		16/32	15"
		23	18/19"

These instruction are applicable for multiple part numbers and finish kits. The primary components of each kit are listed below.

Kinze 3600 & 3660						
# of Rows/Configuration		12	16	12/23, 12/24, 23	16/31, 16/32	12
Row Spacing		30"	30"	15", 18", 19"	15"	36", 38"
Finishing Kit Part Number		731113	731134	731135	731136	731137
Part Number	Description					
731119	Seed Delivery Base Kit—KZ	1	1	1	1	1
731117	Kinze Entrainer Connector Kit—1.25"	12	16	24	32	12
731068	OD Connector Kit—1.25" Straight (Orange)	6	8	6	16	12
731118	OD Connector Kit—1.25" Straight (Blue)	6	8	6	16	12

731065	OD Connector Kit—1.25” Sweep (Orange)	3	3	4	5	8
731115	OD Connector Kit—1.25” Sweep (Blue)	3	3	4	5	8
731080	30” Inter-Row Hose Kit (Orange)	6	8	12	16	
731110	30” Inter-Row Hose Kit (Blue)	6	8	12	16	

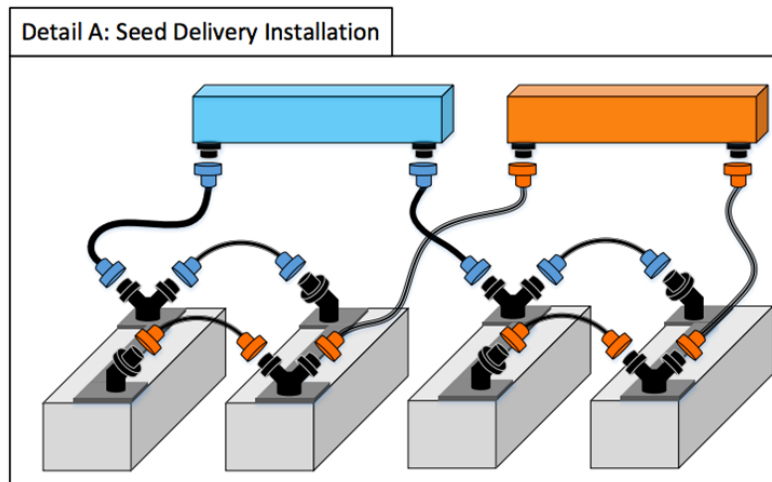
These components are part of the Seed Delivery Base Kit for Kinze Planters (731119), which is included in all finish kits.

Seed Delivery Base Kit—Kinze 731119		
Part Number	Description	QTY
731061	Bulk Tank Label — Blue	2
731062	Bulk Tank Label — Orange	2
731139	1.25” OD Connector Clamp Kit — Orange	4
731140	1.25” OD Connector Clamp Kit — Blue	4
731064	Hose Cutting Tool	1
731092	P-80 Hose Assembly Lubricant 3pl	1
731083	Wrench, Kinze Entrainer Quick-Disconnect	1
955367	Instructions	1
736118	mSet Tank Decal (Blue)	2
736119	mSet Tank Decal (Orange)	2

Overview:

The function of the Seed Delivery Finishing Kit is to re-structure the existing seed delivery lines during a vSet Select/mSet installation. OEM installations of seed delivery lines provide seed to the left and right rows of the planter from their respective bulk seed tank only. The dual meter

assembly of vSet Select/mSet requires ALL rows to receive seed from BOTH bulk seed tanks. See Detail A below for a generic visualization of how this will be accomplished.

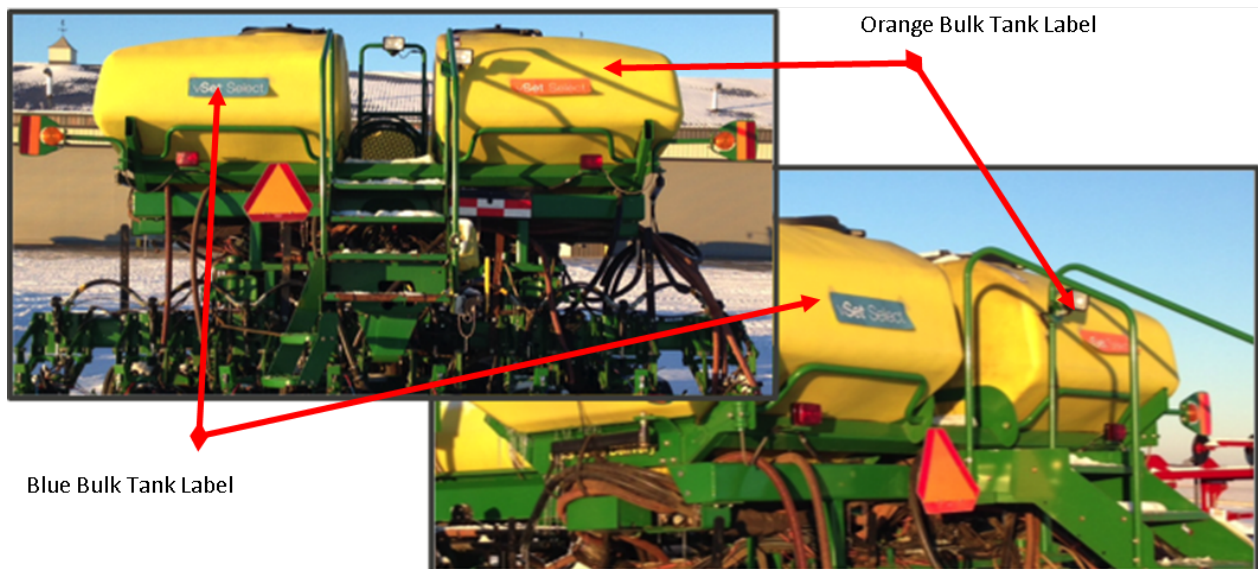


Step 1:

Install the Blue and Orange Bulk Tank Labels. This will reduce confusion throughout the installation process.

Note: It is imperative that the dual meter assemblies and seed delivery lines are installed and routed correctly for accurate control by the 20/20 SeedSense system.

- Install the Blue Bulk Tank Label on the LEFT tank, when viewed from the rear.
- Install the Orange Bulk Tank Label on the RIGHT tank, when viewed from the rear.



Step 2:

Install seed Delivery hose.

Notes prior to installation:

- vSet Select/mSet will use the standard 1.25" Seed Delivery Hose (731073).
 - ALL vSet Select/mSet installations will require *some* new hose to be added to the system. It is recommended that existing hose be critically judged prior to re-use. Any hose that is re-used should have those portions of the hose previously installed onto internal fittings removed to provide a fresh connection to new fittings.
 - Be mindful of all fold points and the actions of the hose around/through these points.
 - If replacing all seed delivery hose; a best practice is to never remove ALL seed delivery lines at once. It is useful to have an example of OEM hose routing when installing new lines.
1. Begin by connecting the hose completely onto the 1.25" hose barb.
 - a. Refer to the example in **Illustration 2** for correct orientation of the hoses and the meters they should be routed to. Specific illustrations are available for each finish kit and according planter in **Appendix A**.
 - b. Use the provided P-80 Hose Assembly Lubricant to facilitate hose installation onto all internal fittings.
 - i. P-80 Hose Assembly Lubricant is a non-toxic emulsion that is designed to facilitate installing fittings into stiff rubber hosing and quickly evaporate without leaving a sticky residue.
 - ii. For standard male hose barbs simply place three drops of the P-80 emulsion onto the fitting and spread evenly.
 2. Refer to example **Illustrations 3 & 4** for correct installation of seed delivery hoses from each bulk tank to each meter. Specific illustrations are available for each finish kit and according planter in **Appendix A**.

Note Prior to filling the hoppers with seed for the first time it is recommended to pour a generous amount of eFlow or similar seed lubricant evenly into the hoppers and pressurize the tank to distribute out to the rows. This will help seed flow in new seed delivery hoses. Also, for the first 2-3 seed fills in season, it is recommended to double the suggested amount volume of seed lubricant during each fill to further this effort.

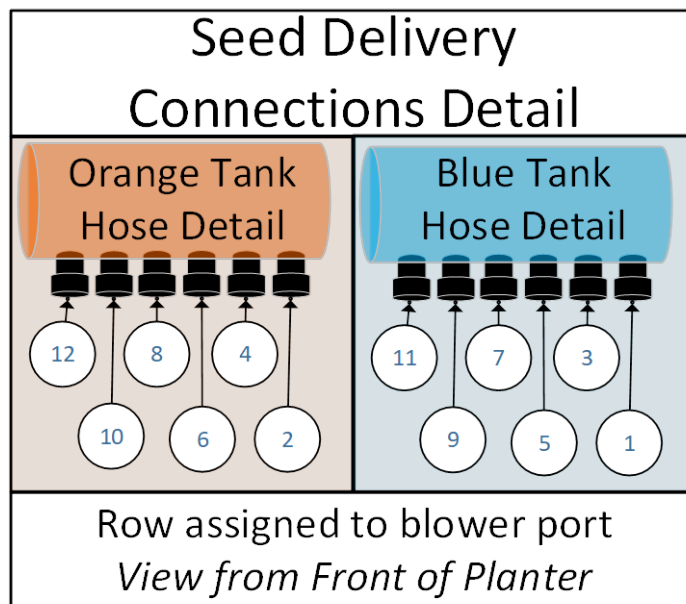


Illustration 2: Seed Delivery Hose Orientation example

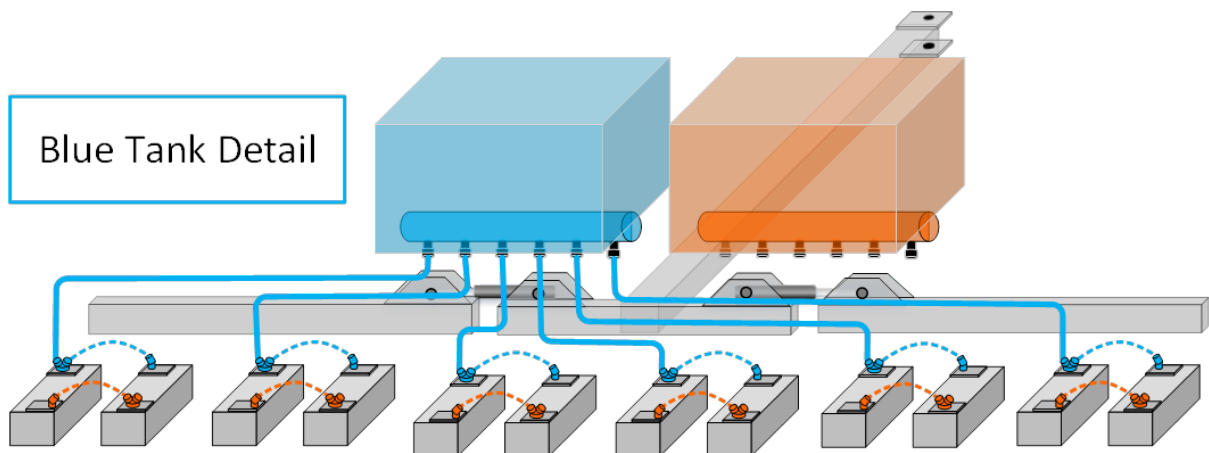


Illustration 3: Seed Delivery Hose Routing—Blue Tank

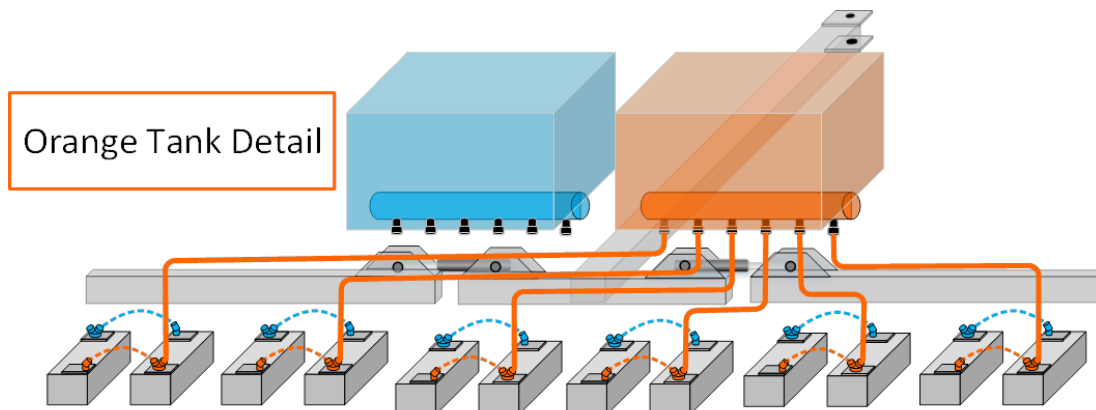


Illustration 4: Seed Delivery Hose Routing—Orange Tank

3. Once the seed delivery hose has been routed to the correct row and meter, mark the length needed and cut the hose.

Notes on cutting the hose:

- a. It is recommended to have all meters installed and in place prior to routing/cutting the hoses to ensure that proper hose length is provided to each meter.
 - b. A clean straight cut across the hose is required.
 - c. This can be challenging due to the helical internal support ribs, which tend to deflect thin cutting blades like knives or ratcheting pipe cutters. This causes a jagged or uneven cut.
 - d. If you are not using a Precision Planting cutting tool to make the cuts, we recommend either:
 - i. a miter box, or
 - ii. a miter saw or chop saw with a steel blade labeled for cutting wood. Abrasive style cutting blades commonly installed on chop saws are NOT recommended as they will melt and burn the hose material. This leaves a very rough finished cut and will deposit fine particulates in the hose that may negatively affect seed flow.
4. Once the seed delivery hose has been properly cut, install the 1.25" OD connectors onto the end of the hose.
 - a. The OD connectors will come pre-assembled from Precision Planting and simply require inserting the seed delivery hose into the connector until it is firmly seated and tightening the two #2 Phillip head screws.
 - i. Tighten the screws until the clamps are touching on BOTH sides to ensure adequate grip between connector and hose.
 - b. An exploded view of the 1.25" OD connectors is shown in Illustration 5. Ensure that BOTH O-ring seals are installed prior to connecting to the seed delivery hose.
 - c. A few sweep style 1.25" OD connectors are included in each base/finishing kit to enable avoidance of custom or unique interference situations. An example of the sweep style connectors is shown in Illustration 6. Assembly and installation of the sweep connectors is the same as the straight style connectors.
 - d. Additional blue and orange clamps are included in each base/finishing kit to enable correct color orientation.

The OD connectors were implemented as part of the vSet Select/mSet system for two primary gains:

- 1) minimize the number of changes in diameter the must flow through and,
- 2) improve the systems robustness against seed bridging.

With these factors in mind, it is important that the hose is

- cut straight,
- free of burrs or debris,

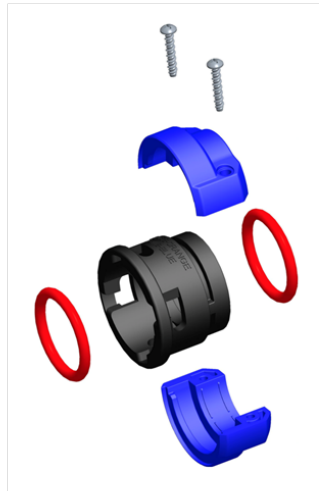
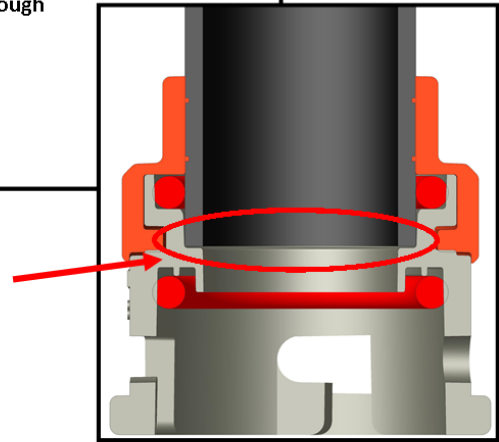


Illustration 5: Straight Style 1.25" OD connector
(exploded view)



Illustration 6: Sweep style 1.25" OD connector
(assembled)

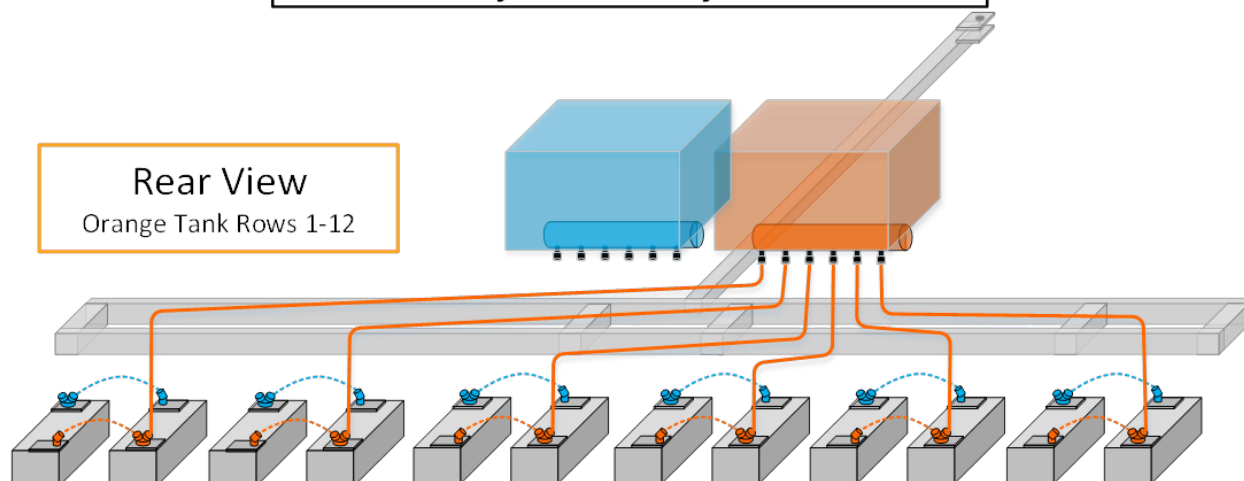
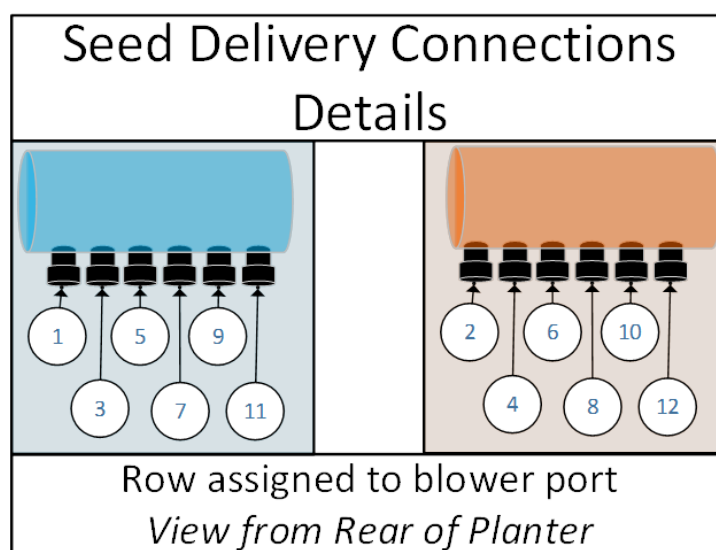
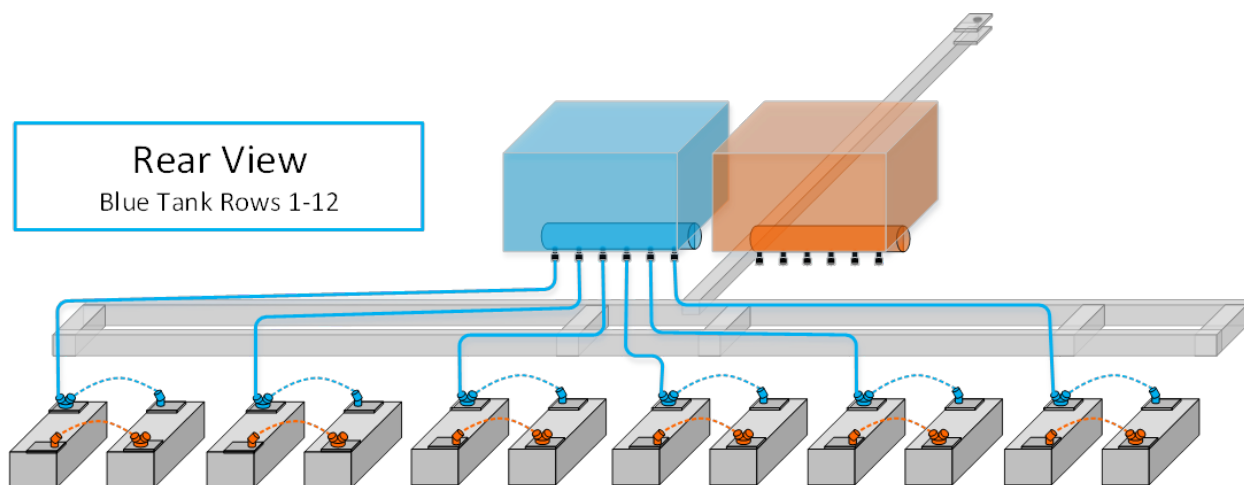
5. Once the 1.25" OD connectors are installed on the seed delivery hose, complete the installation by connecting the hose to the meter.

At this point, verify that each seed delivery hose is correct so that hoses are:

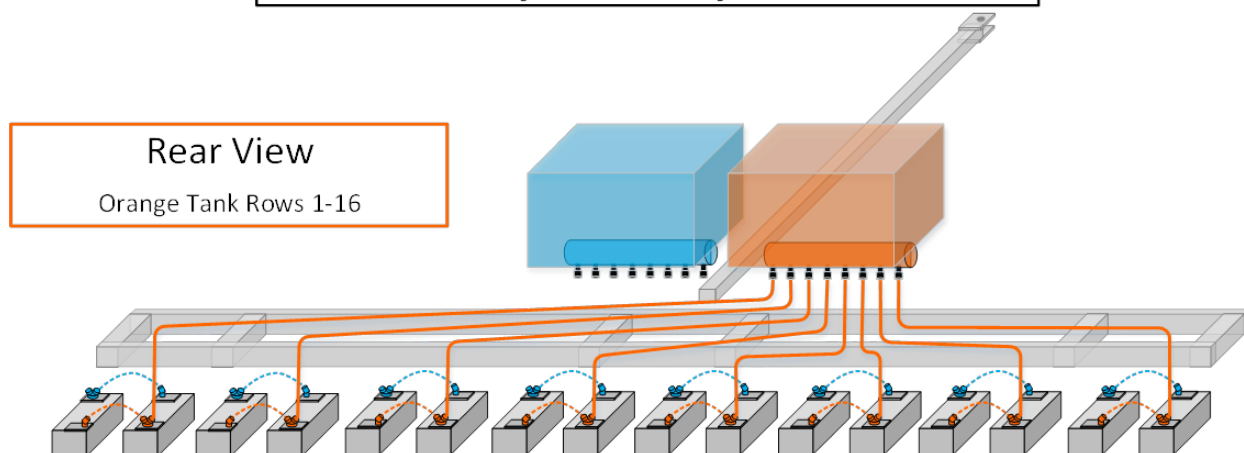
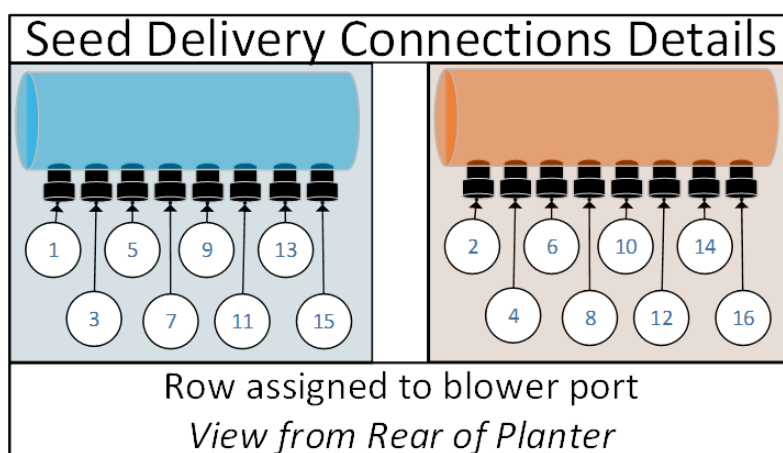
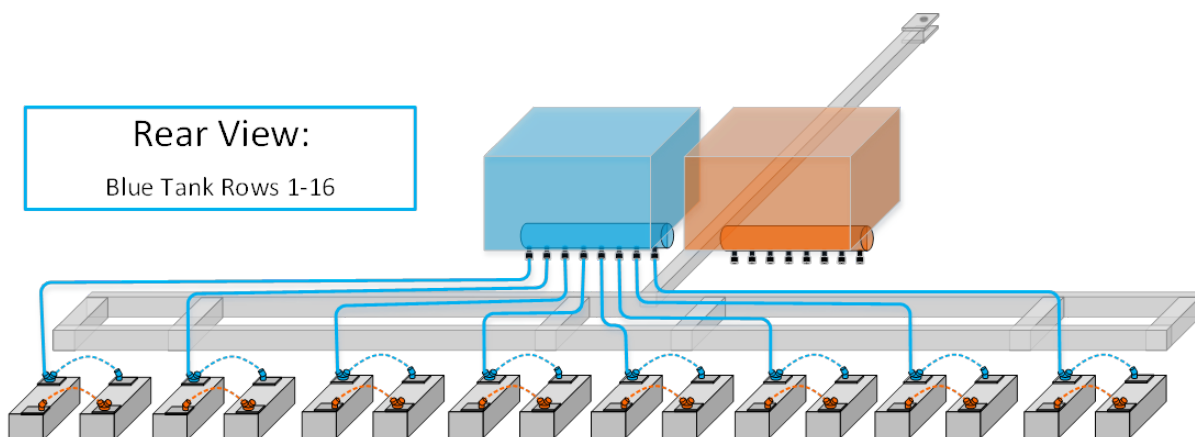
- a. routed correctly from the Left or BLUE bulk seed tank to the FRONT meters through blue 1.25" OD connectors.
- b. routed correctly from the Orange or RIGHT bulk seed tank to the REAR meters through orange 1.25" OD connectors.

Appendix A: Planter Specific Seed Delivery Installation Diagrams

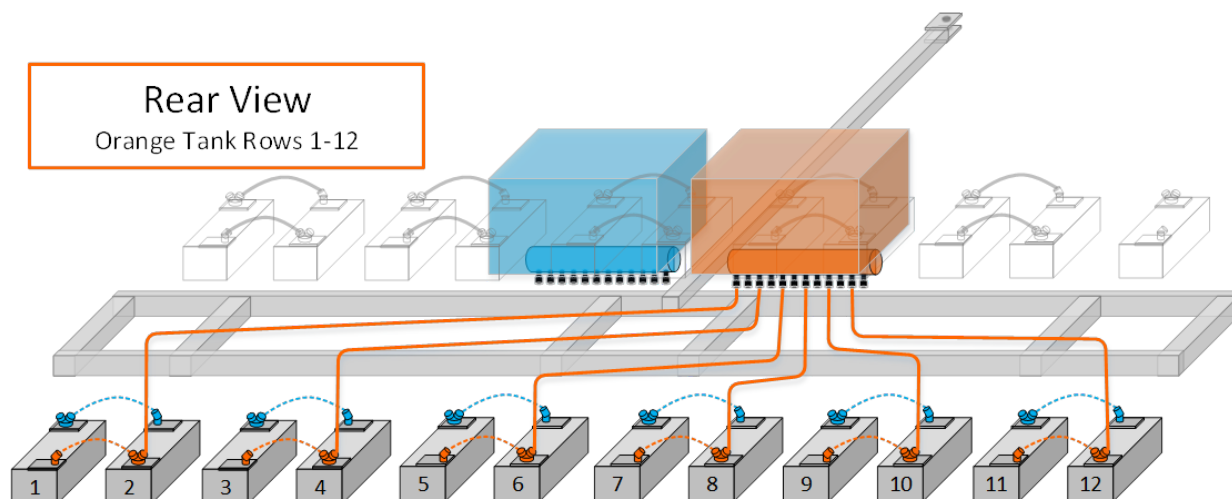
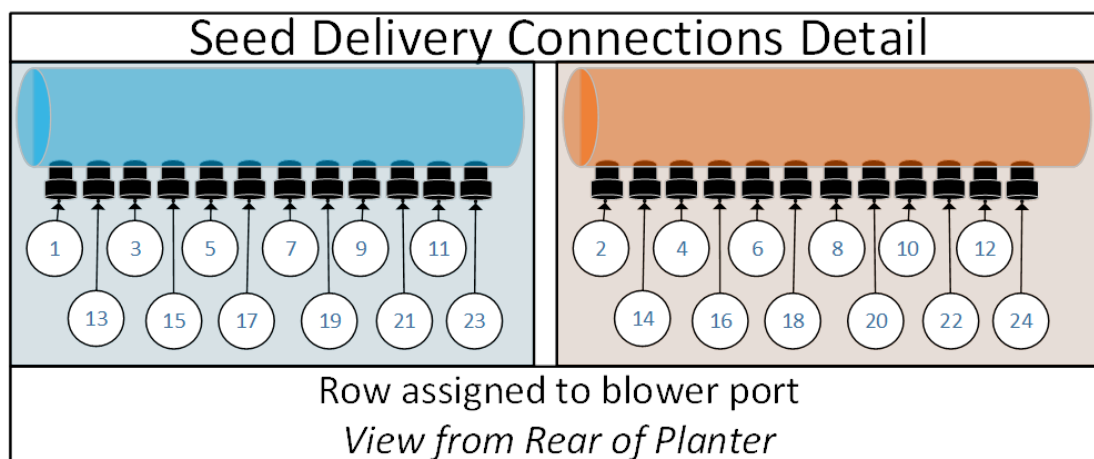
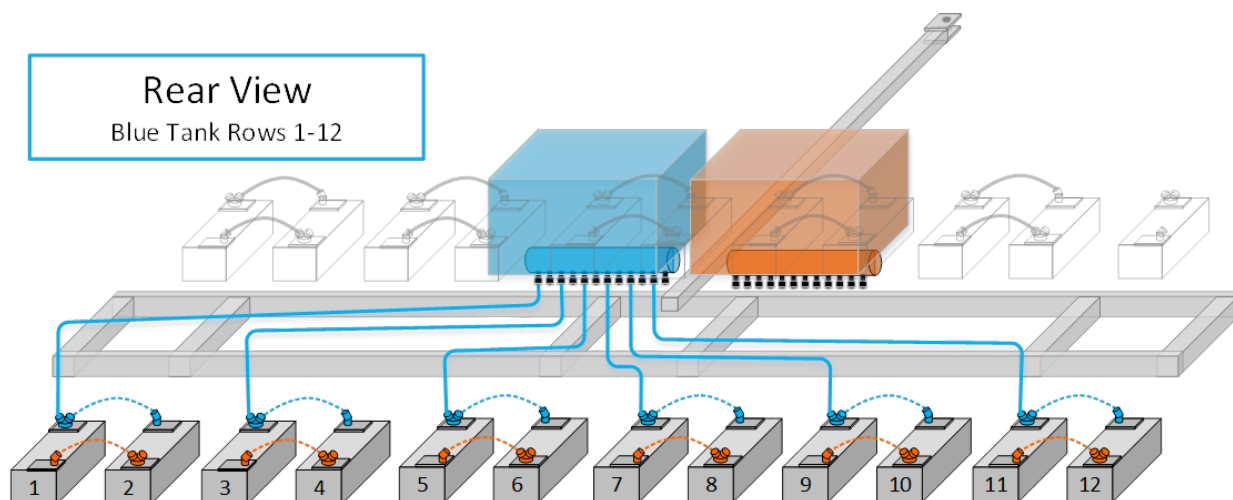
Use this page for 12 row 30", 36", & 38"



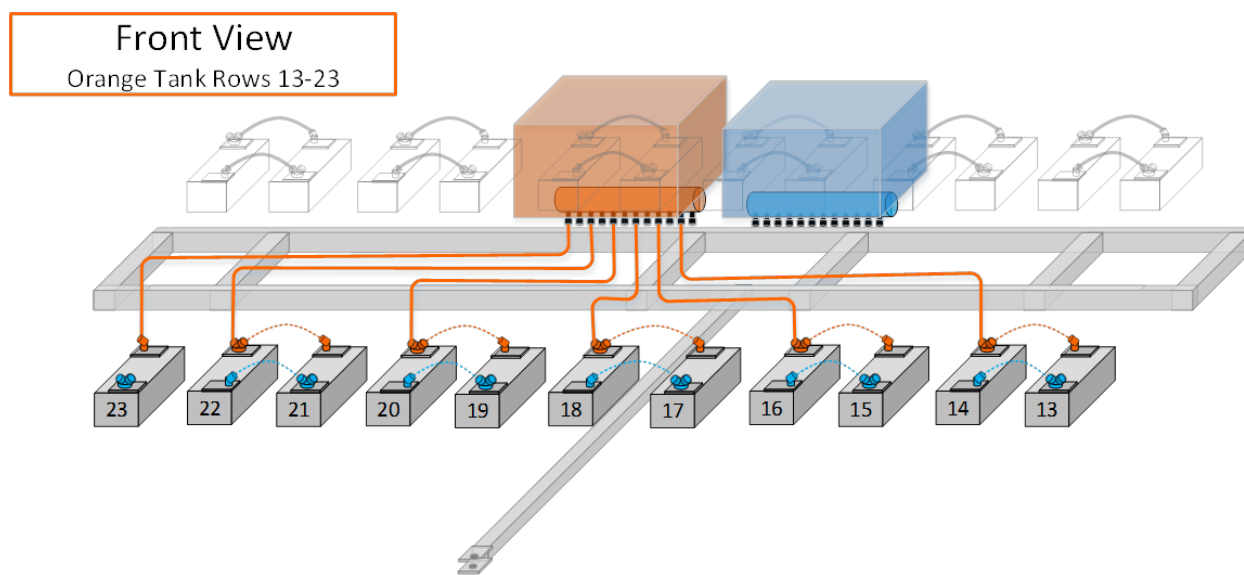
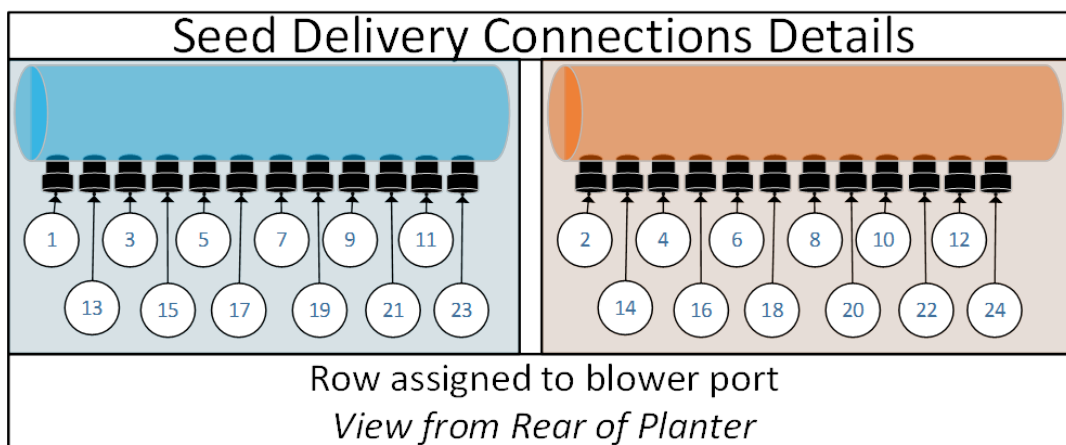
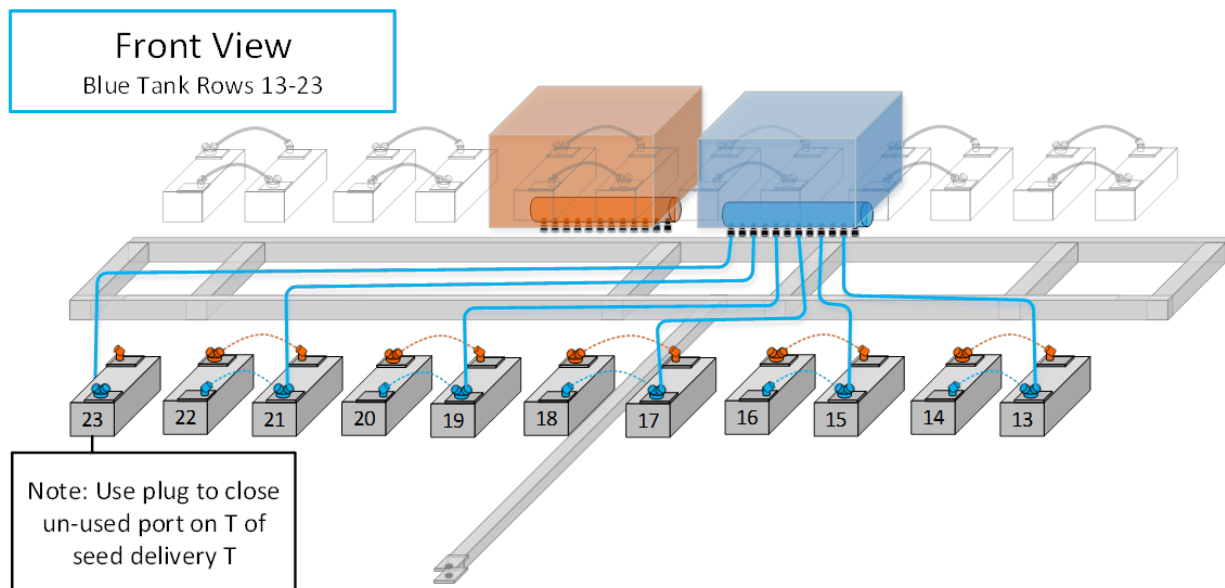
Use this page for 16 row 30"



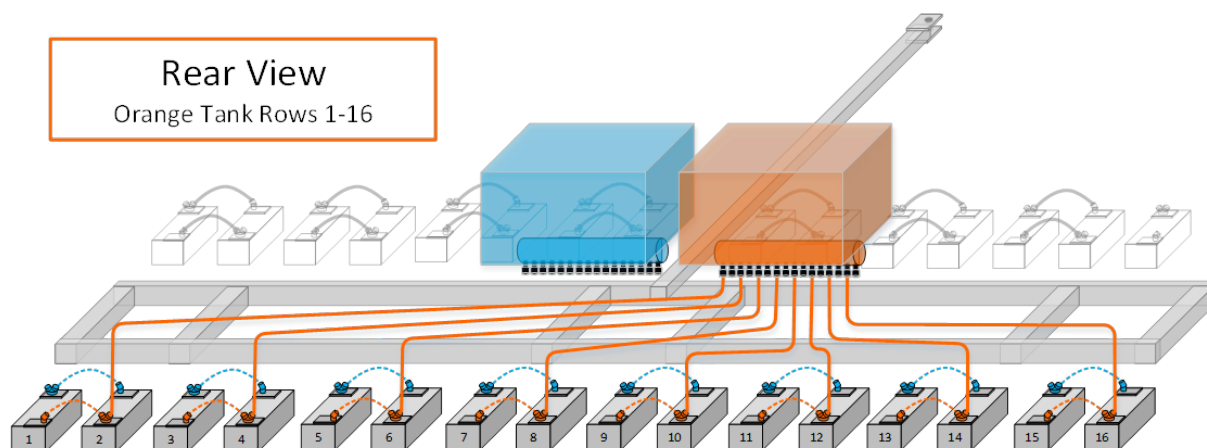
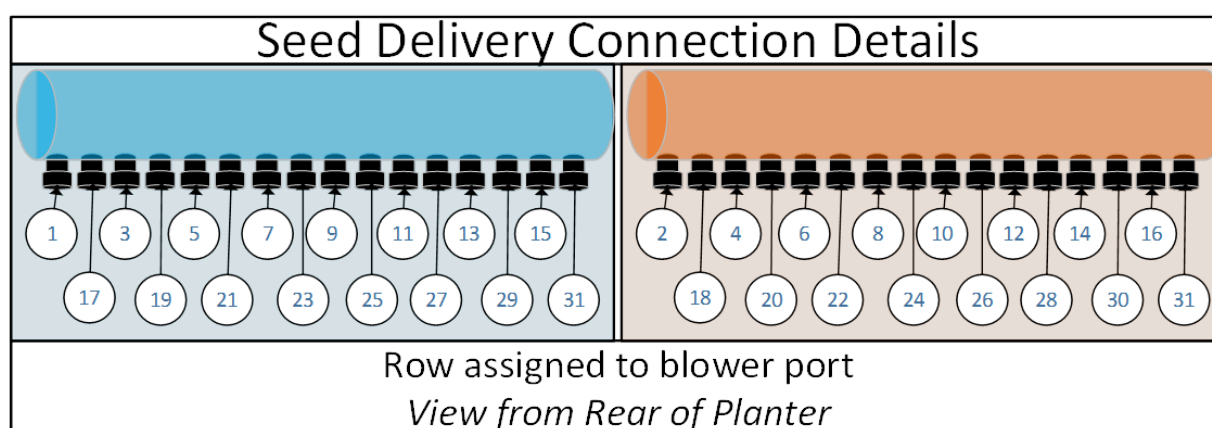
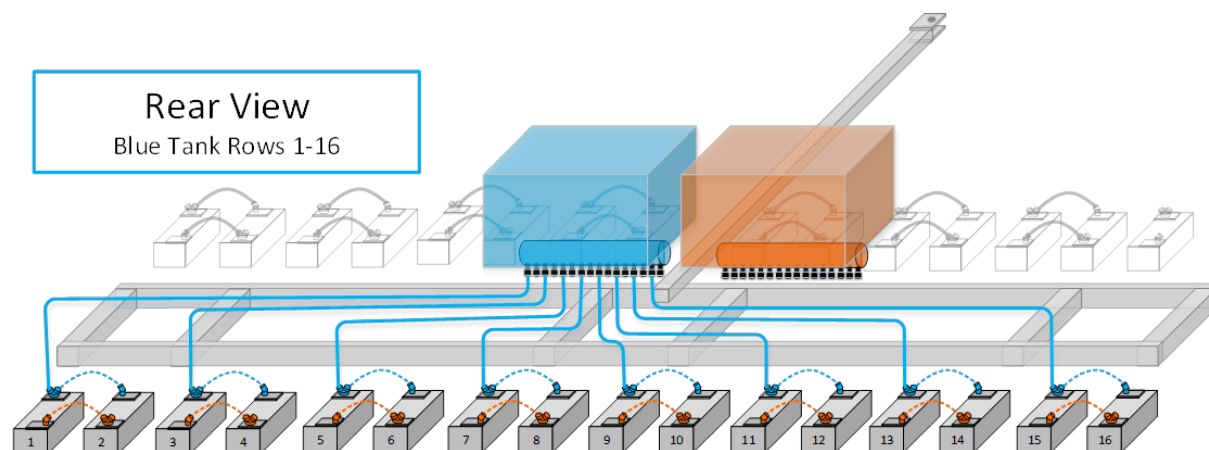
Use this page for 12/23 & 12/24 row 15" REAR rows



Use this page for 12/23 & 12/24 row 15" FRONT rows



Use this page for 16/31 & 16/32 15" REAR rows



Use this page for 16/31 & 16/32 15" FRONT rows

