

mSet™ vSet® Select

John Deere Seed Delivery Finish Kit Installation

Precision Planting®

John Deere Seed Delivery Finish Kit Installation

Applies to Kinze planter models:

John Deere	1720/1725	Rows	Row Spacing
		12	30"
		16	30"
	1770/1775	12	30"
		16	30"
		24	30"
	DB44	24	22"
	DB60	24	30"
	DB60	36	20"
	Not compatible:	1790/1795 Models	
		DR — Stack Fold CCS	
		Twin Row Configurations	
		ALL Planters OVER 36 Rows or 60'	

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

Planter Model(s)		1720/1725			1770/1775			DB44	DB60	DB60
# of Rows/ Configuration		12	12	16	12	16	24	24	24	36
Row Spacing		30"	36", 38", 40"	30"	30"	30"	30"	22"	30"	20"
Finishing Kit Part Number		731- 130	731140	731- 131	7311- 30	731- 131	7301- 32	731341	731132	731343
Part Num- ber	Description									
7311- 06	Bulk Fill Base Kit— JD	1	1	1	1	1	1	1	1	1
7310- 68	OD Connector Kit—1.25" Straight (Orange)	6	12	8	6	8	12	12	12	16
7311- 18	OD Connector Kit—1.25"	6	12	8	6	8	12	12	12	16

	Straight (Blue)									
7310-65	OD Connector Kit—1.25” Sweep (Orange)	3	9	3	3	3	3	3	3	3
7311-15	OD Connector Kit—1.25” Sweep (Blue)	3	9	3	3	3	3	3	3	3
7310-80	30” Inter- Row Hose Kit (Orange)	6	N/A**	8	6	8	12	12	12	20
7311-10	30” Inter- Row Hose Kit (Blue)	6	N/A**	8	6	8	12	12	12	20
7311-00	JD CCS Soybean Flow Restrictor	12	12	16	12	16	18	24	18	30
9554-90	Bulk Fill Base Kit— JD Instructions	1	1	1	1	1	1	1	1	1

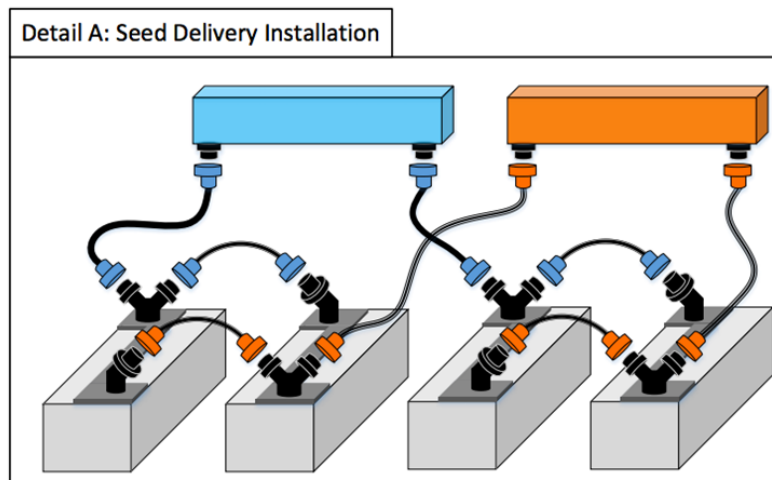
These components are part of the Bulk Fill Base Kit for John Deere Planters (731106), which is included in all finish kits.

Bulk Fill Base Kit—Kinze 731106		
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 3pk	1

731120	Valve Seed Delivery Airflow Reducer Kit	1
736118	mSet Tank Decal (Blue)	1
736119	mSet Tank Decal (Orange)	2
955367	Instructions	2

Overview:

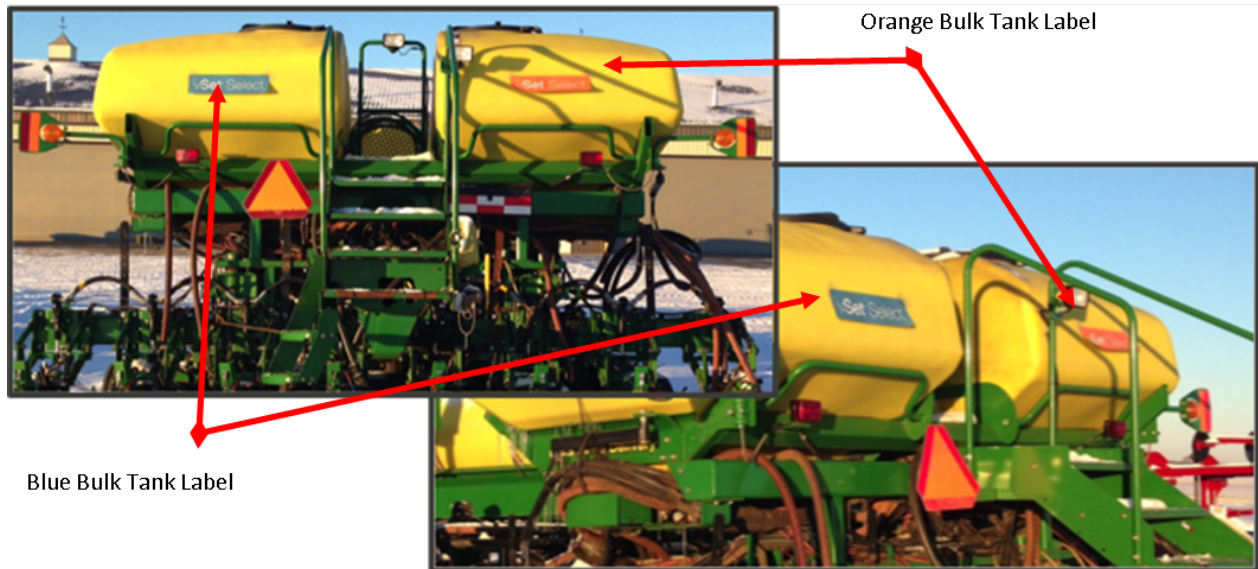
The Seed Delivery Finishing Kit restructures the existing seed delivery lines to support vSet Select/mSet. The OEM configuration of seed delivery lines provides seed to the left and right rows of the planter from their respective bulk seed tank. This finishing kit allows all rows to receive seed from both bulk seed tanks for the dual meter assemblies of vSet Select/mSet. See Detail A below for an example.



Step 1:

Install the Blue and Orange Bulk Tank Labels. This will reduce confusion throughout the installation process. Install the Blue Bulk Tank Label (731061) on the LEFT tank, when viewed from the rear. Install the Orange Bulk Tank Label (731062) on the RIGHT tank, when viewed from the rear.

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.



Notes prior to Seed Delivery Hose Installation:

- vSet Select/mSet will use 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.

Step 2:

Begin by connecting the hose completely onto the 1.25" hose barb at the CCS tank. Refer to the example in Figure 2 for the correct orientation of the hoses and the meters to which they should be routed. Specific illustrations are available for each finish kit and corresponding planter in at the end of this guide.

Note: Use the provided P-80 Hose Assembly Lubricant to facilitate hose installation onto all internal fittings. P-80 Hose Assembly Lubricant is a non-toxic emulsion that is designed to facilitate the installation of fittings into stiff rubber hosing and then quickly evaporate without leaving a sticky residue. For standard male hose barbs simply place three drops of the P-80 emulsion onto the fitting and spread evenly.

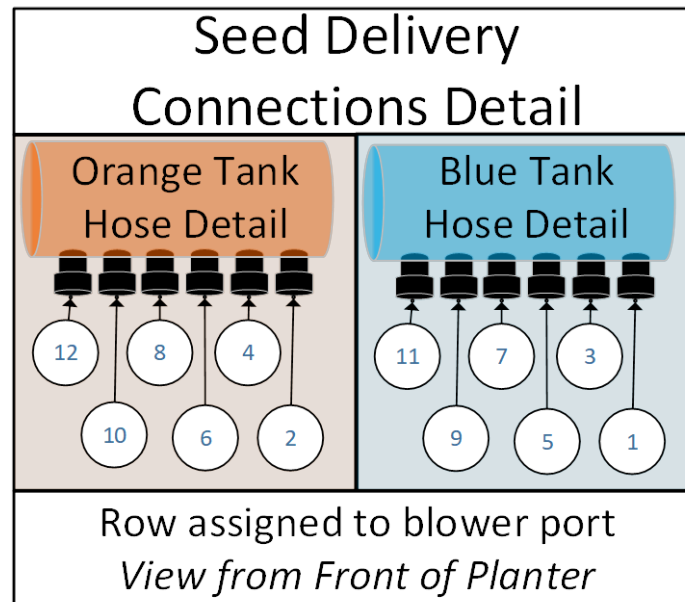


Illustration 2: Seed Delivery Hose Orientation example

Step 3:

Verify that seed delivery hoses are correctly routed from each bulk tank to each meter. Use figures 3 and 4 for reference and refer to the planter-specific illustrations at the end of this guide.

Note: Prior to filling the hoppers with seed for the first time 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, double the suggested amount of seed lubricant during each fill.

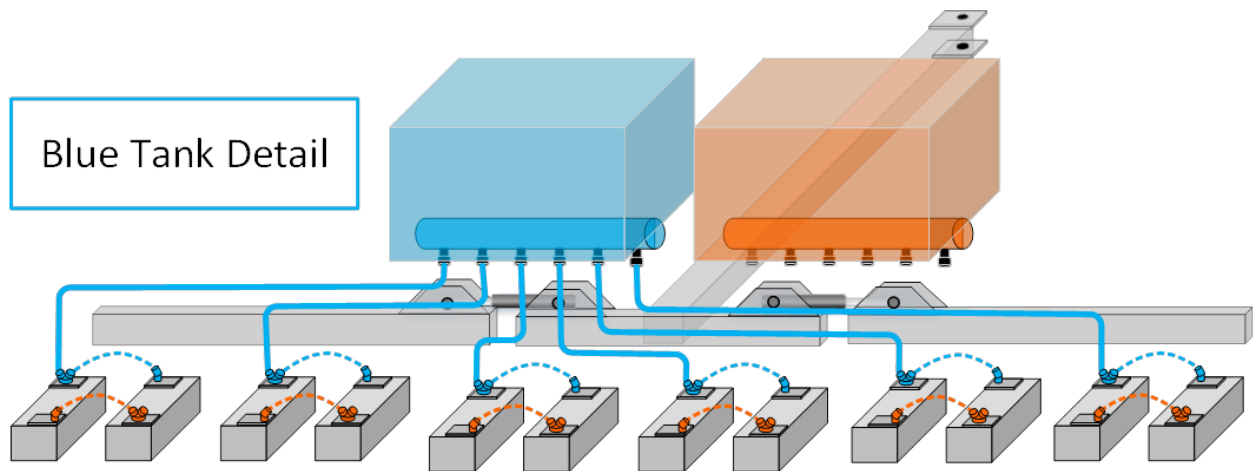


Illustration 3: Seed Delivery Hose Routing—Blue Tank

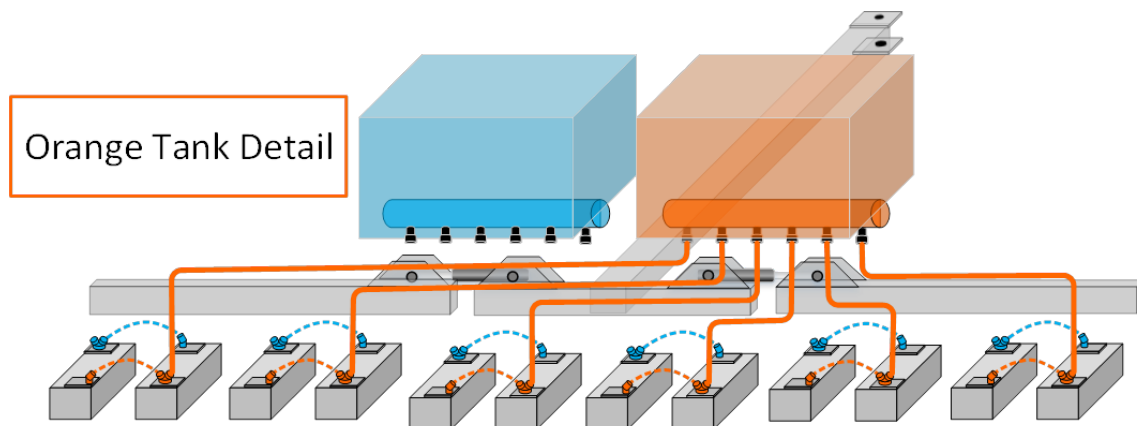


Illustration 4: Seed Delivery Hose Routing—Orange Tank

Step 4:

Once the seed delivery hose has been routed to the correct row and meter, mark the length needed and cut the hose. All meters should be installed and in place prior to routing and cutting the hoses so that the proper length is retained.

Note on Cutting Hoses: A clean, straight cut across the hose is required. The helical internal support ribs tend to deflect thin cutting blades like knives and ratcheting pip cutters causing a jagged or uneven cut. If you are not using a Precision Planting cutting tool to make the cuts, we recommend either:

- a miter box, or
- 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 leaving a rough cut and depositing fine particulates in the hose that may negatively affect seed flow.

Step 5:

Once the seed delivery hose has been properly cut, install the 1.25" OD connectors onto the end of the hose. The OD connectors are pre-assembled (see figure 5 with notes). Insert the seed delivery hose into the connector until it is firmly seated. Tighten the two #2 Phillips head screws until the clamps are touching on BOTH sides so that there is an adequate grip between the connector and the hose. An exploded view of the 1.25" OD connectors is shown in figure 6. BOTH O-ring seals must be installed prior to connecting to the seed delivery hose.

Note: A few sweep style 1.25" OD connectors are included in each base/finishing kit to avoid clearance issues where needed. See figure 5 for an assembled view of the sweep-style connector. Installation of the sweep-style is identical to that of the straight. Additional blue and orange clamps are included in each base/finishing kit to enable correct color orientation at each meter when adapting around unique planter instances.

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,

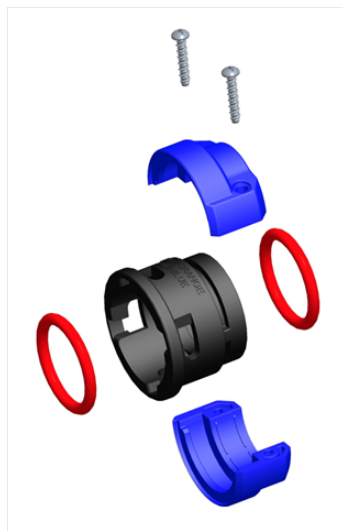
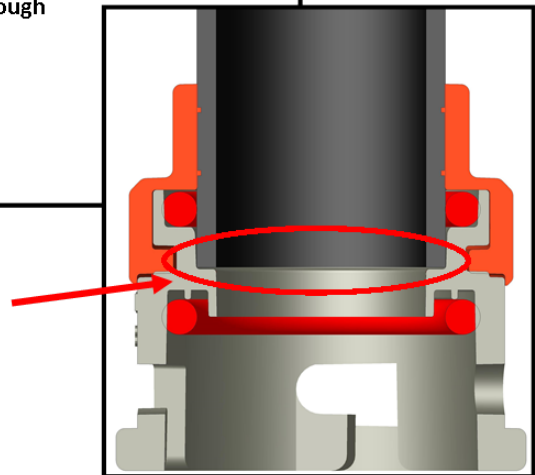


Illustration 5: Straight Style 1.25" OD connector
(exploded view)



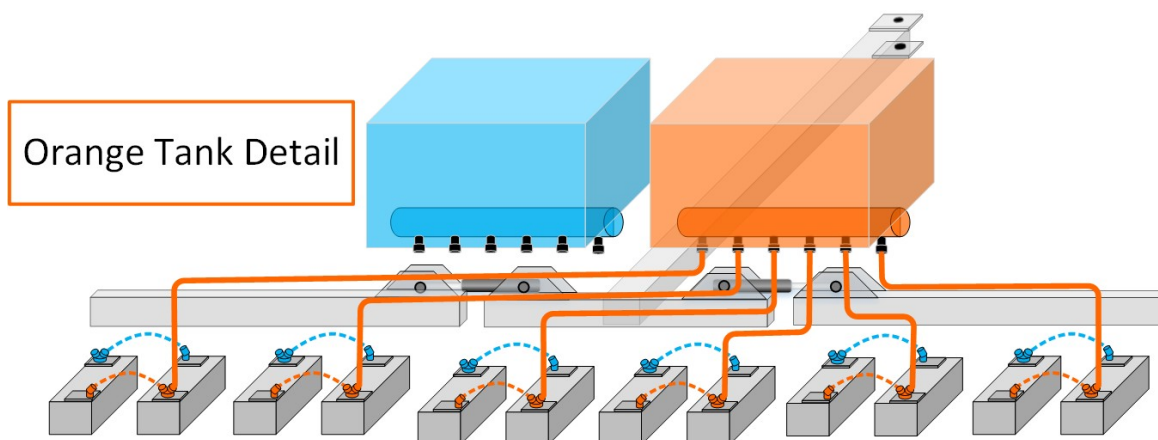
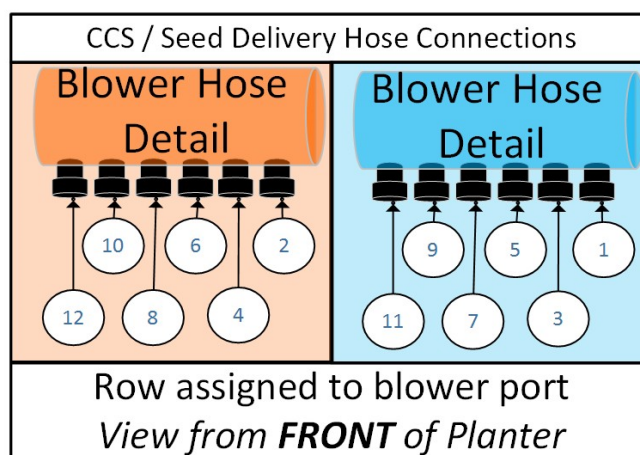
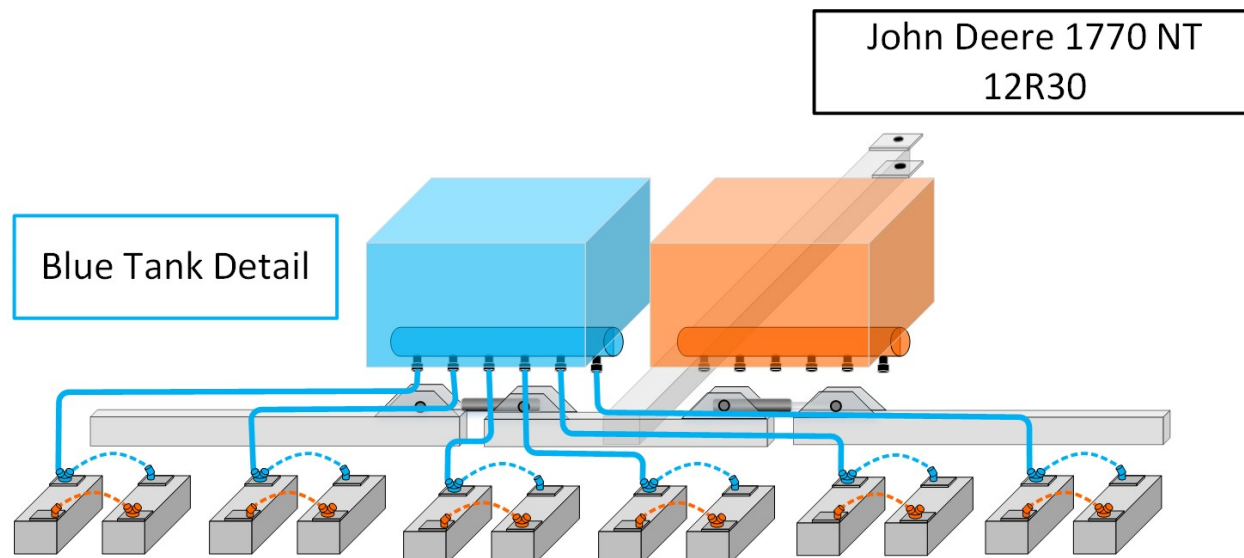
Illustration 6: Sweep style 1.25" OD connector
(assembled)

Step 6:

Once the 1.25" OD connectors are installed on the seed delivery hose, complete the installation by connecting the hose to the meter. Verify that each seed delivery hose is correct so that hoses are:

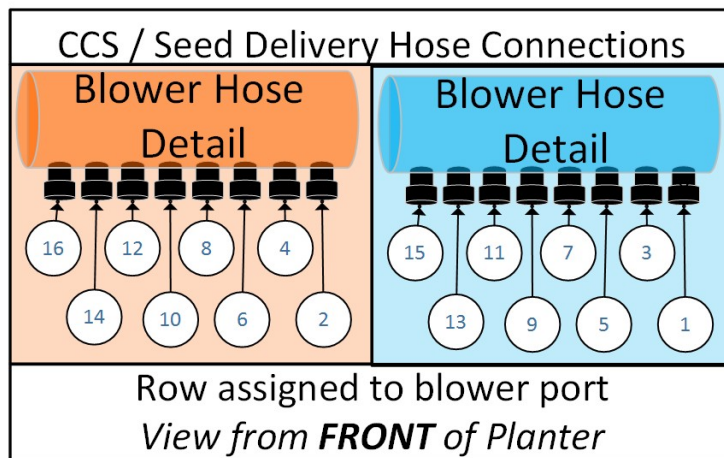
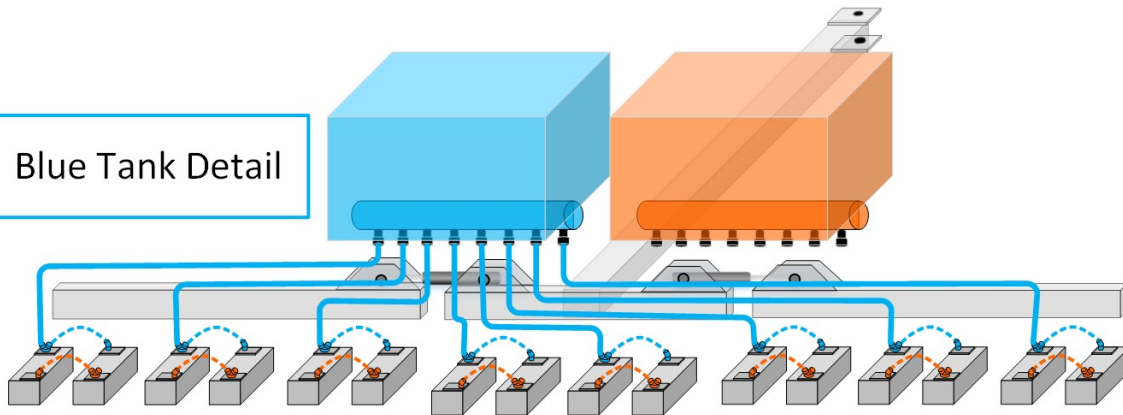
- Routed correctly from the Left or BLUE bulk seed tank to the FRONT meters through blue 1.25" OD connectors.
- Routed correctly from the Orange or RIGHT bulk seed tank to the REAR meters through orange 1.25" OD connectors.

Appendix A: Planter Specific Seed Delivery Installation Diagrams

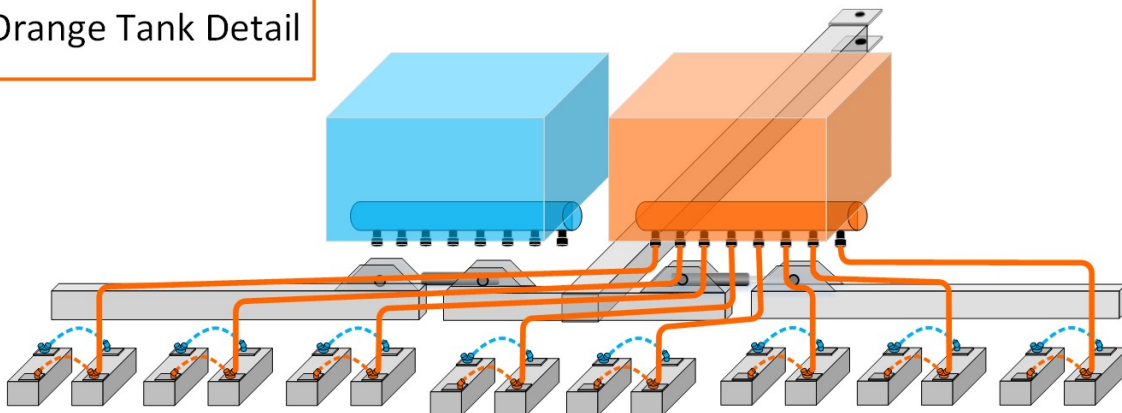


John Deere 1770 NT
16R30

Blue Tank Detail

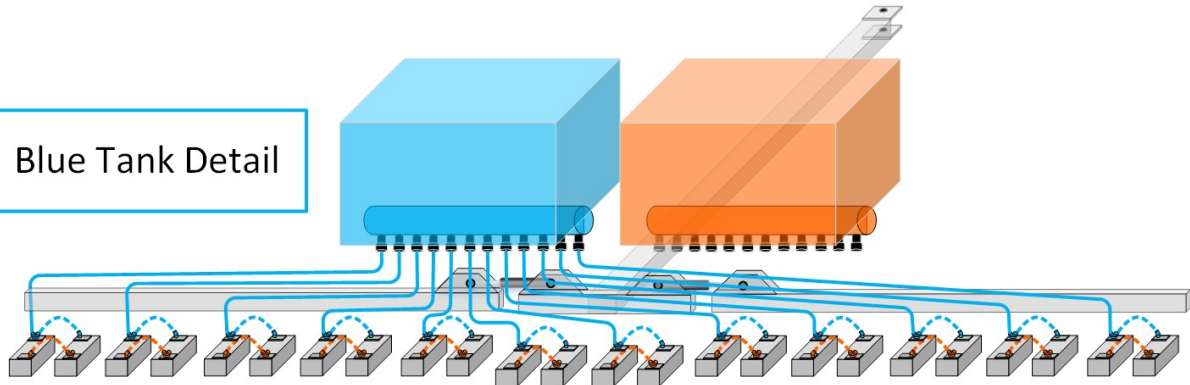


Orange Tank Detail



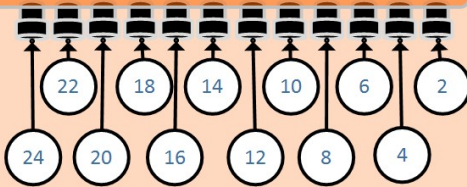
John Deere 1770 NT
24R30

Blue Tank Detail

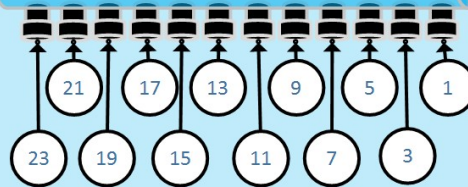


CCS / Seed Delivery Hose Connections

Blower Hose Detail

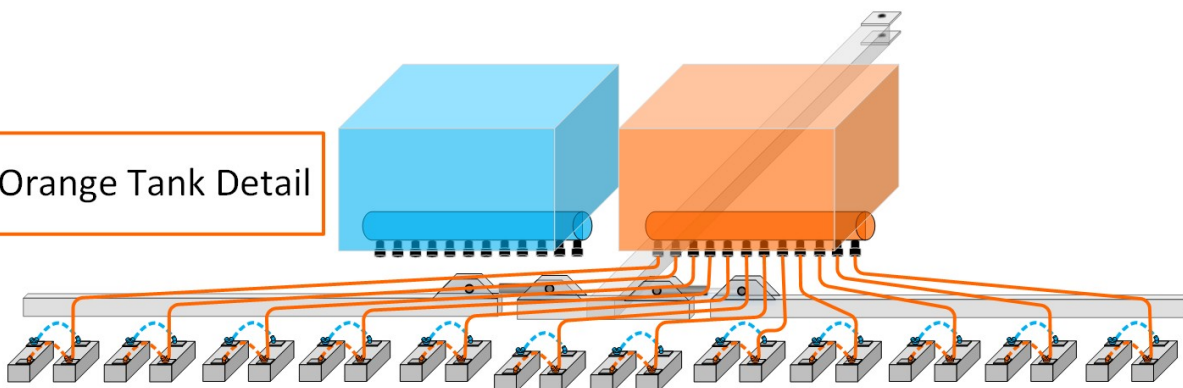


Blower Hose Detail



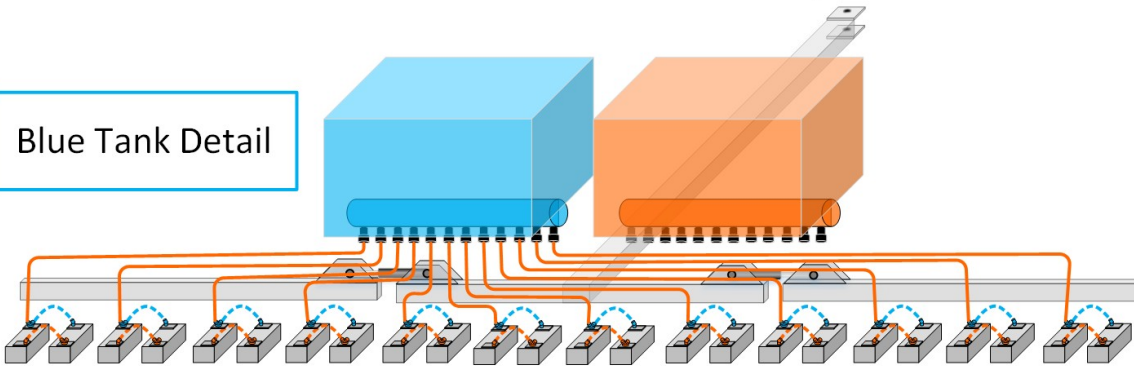
Row assigned to blower port
*View from **FRONT** of Planter*

Orange Tank Detail

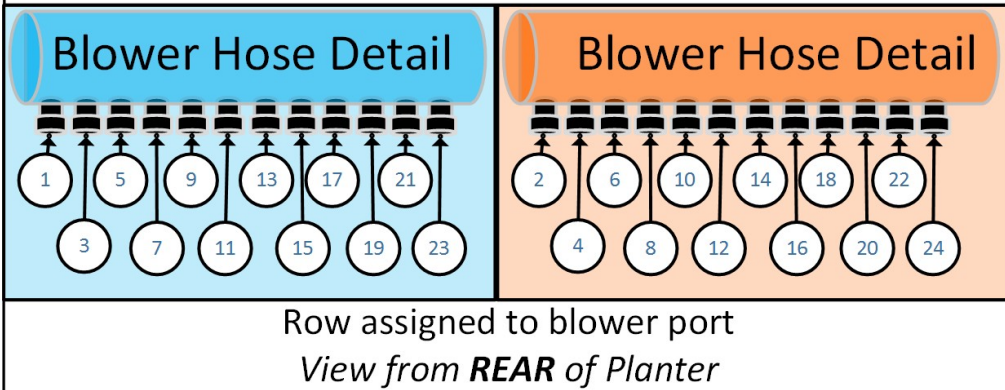


Deere/Bauer DB44
24R22

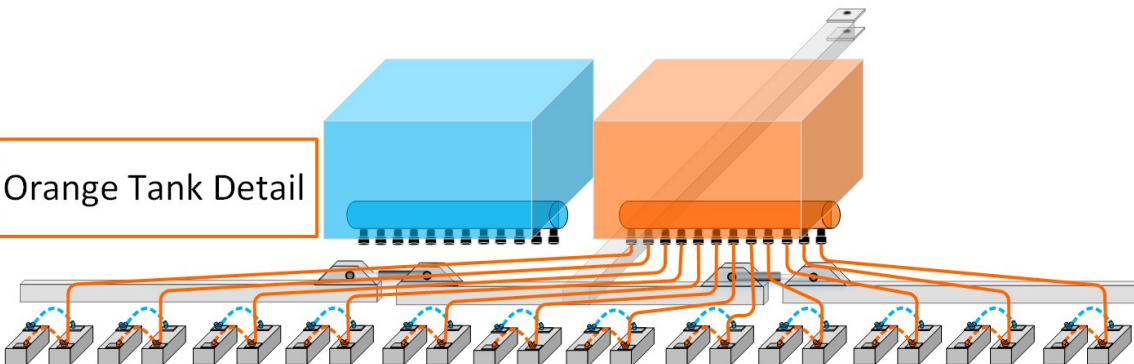
Blue Tank Detail

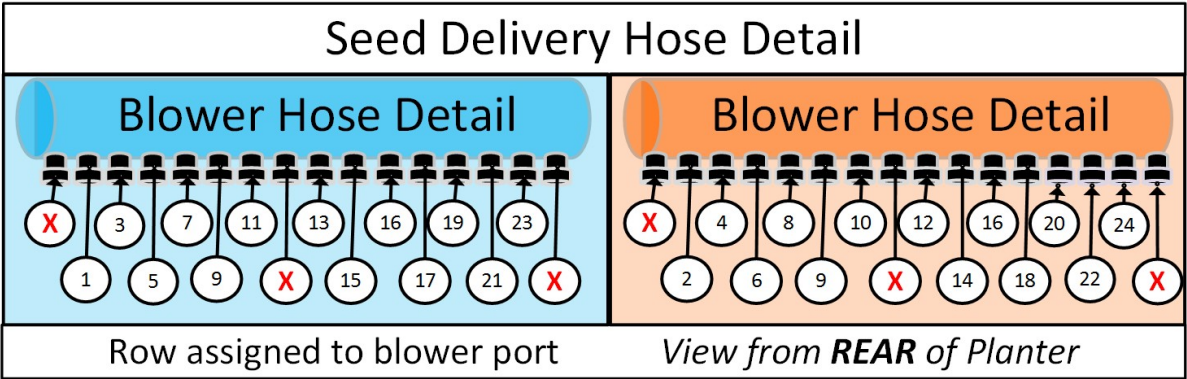
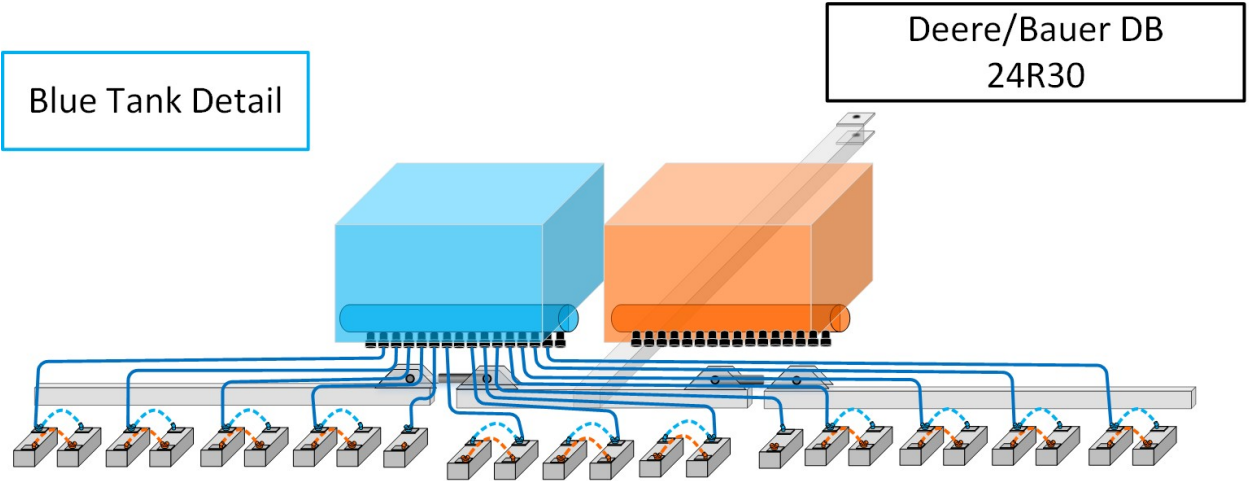


Seed Delivery Hose Detail



Orange Tank Detail





This install requires updating the CCS manifold from 12 ports per tank to 16 ports. The OEM part numbers and quantities are shown in the table at right.

QTY	John Deere Part Number	Description
2	AA63199	Manifold, w/manifold Assembly, 16 port
2	A79696	Agitator-Bar 32R15 Agitator
36	34M7036	Spring Pin
8	AA57589	CCS Nozzle Kit
2	A76839	CCS Nozzle Seals, 16 row wide

