

vSet® Select

John Deere Seed Delivery Finish Kit Installation Guide

Kits 731130, 731131, 731132, 731140, 731341, and 731343

Applies to the following JD planter models:

John Deere	1720 / 1725	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'	

Precision Planting®

Contents:

These instructions 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		12	12	16	12	16	24	24	24	36
Row Spacing		30"	36", 38", 40"	30"	30"	30"	30"	22"	30"	20"
Finish Kit Part Number		731130	731140	731131	731130	731131	731132	731341	731132	731343
Part Number	Description									
731106	vSet Select Bulk Fill Base Kit - JD	1	1	1	1	1	1	1	1	1
731068	OD Connector Kit - 1.25" Straight (Orange)	6	12	8	6	8	12	12	12	16
731118	OD Connector Kit - 1.25" Straight (Blue)	6	12	8	6	8	12	12	12	16
731065	OD Connector Kit - 1.25" Sweep (Orange)	3	9	3	3	3	3	3	3	3
731115	OD Connector Kit - 1.25" Sweep (Blue)	3	9	3	3	3	3	3	3	3
731080	30" Inter-Row Hose Kit (Orange)	6	N/A **	8	6	8	12	12	12	20
731110	30" Inter-Row Hose Kit (Blue)	6	N/A **	8	6	8	12	12	12	20
731100	JD CCS Soybean Flow Restrictor	12	12	16	12	16	18	24	18	30
955490	vSet Select JD Seed Delivery Finish Kit 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.

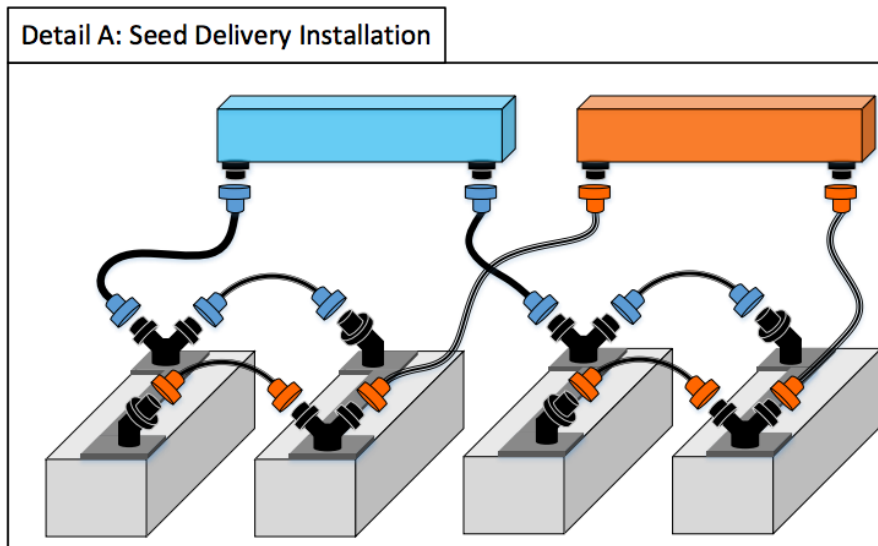
731106

vSet Select Bulk Fill Base Kit - JD

Part Number	Description	Quantity
731061	Bulk Tank Label - Blue	1
731062	Bulk Tank Label - Orange	1
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	Seed Delivery Airflow Reducer Kit	1

Overview:

The Seed Delivery Finishing Kit restructures the existing seed delivery lines to support vSet Select. 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. 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.

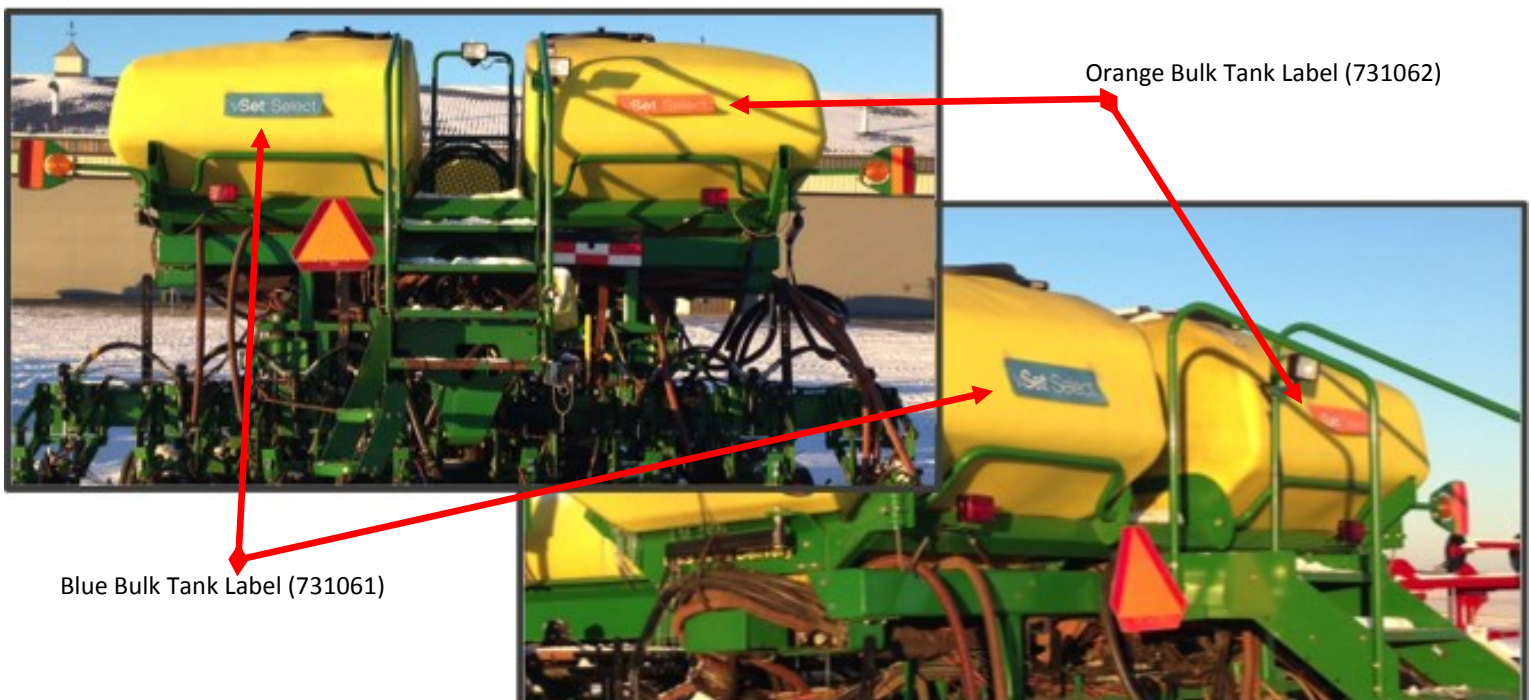


Figure 1: Bulk Seed Tank Label placement

Notes prior to Seed Delivery Hose installation:

- vSet Select will use standard 1.25" Seed Delivery Hose (731073)
- ALL vSet Select 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

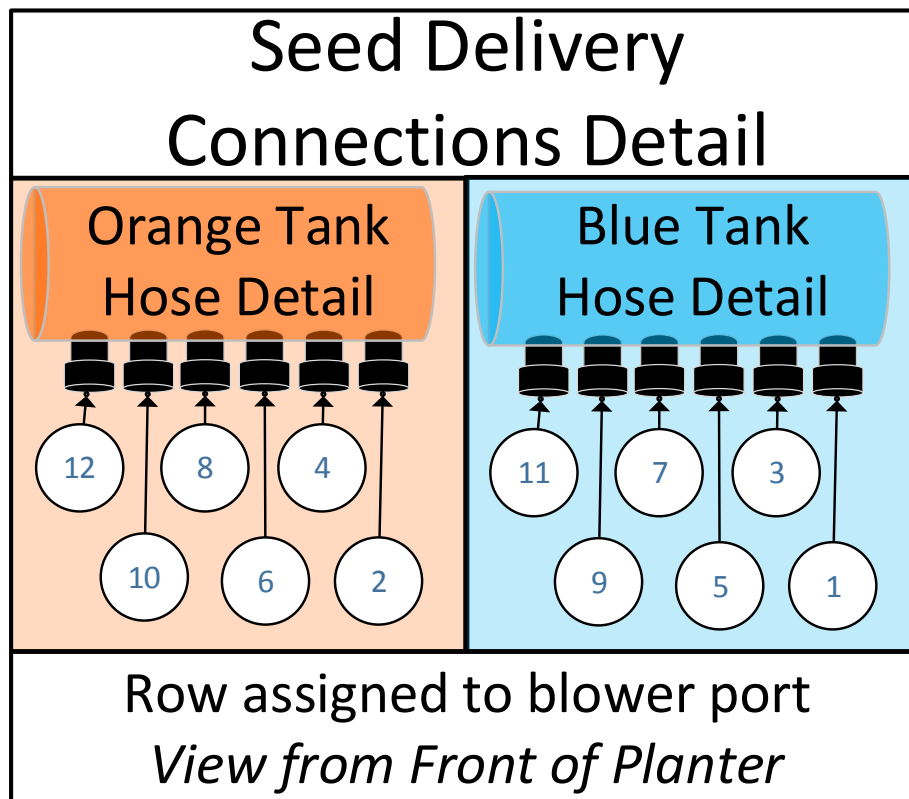


Figure 2: Seed Delivery Hose Orientation example

Step 3

Verify that seed delivery hoses are correctly routed from each bulk tank to each meter. Use figures 3A and 3B 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.

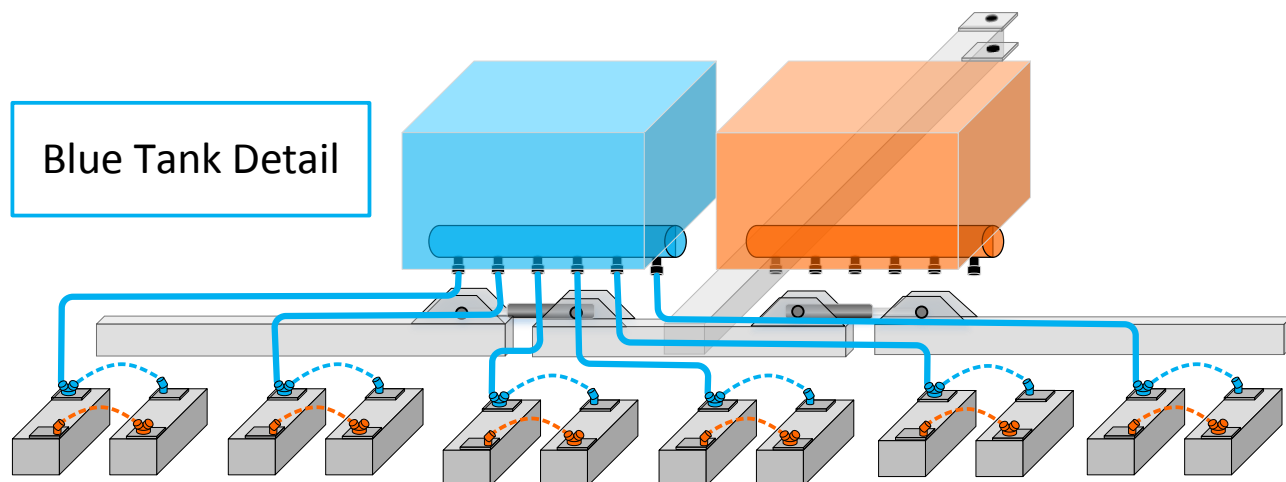


Figure 3A: Seed Delivery Hose Routing—Blue Tank

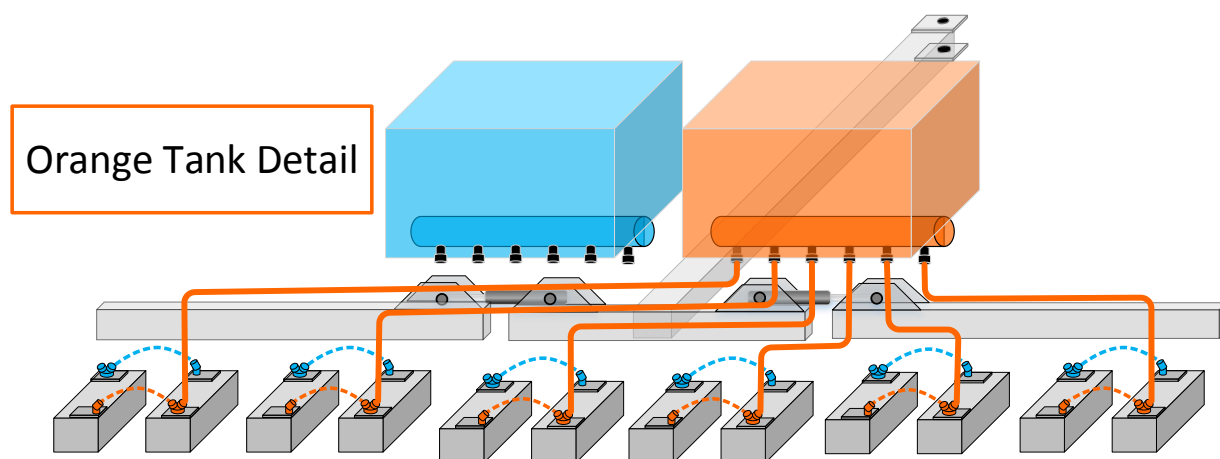


Figure 3B: Seed Delivery Hose Routing—Orange Tank

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 pipe 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 5A 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 5B. 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 5C 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 minimize the number of changes in diameter the seed must flow through and improves 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,
- and fully seated within the connector to avoid gaps which could allow seed to catch and bridge.

Figure 5A: OD Connector with Installation Notes

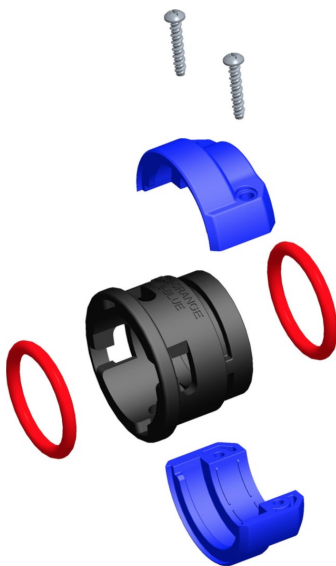
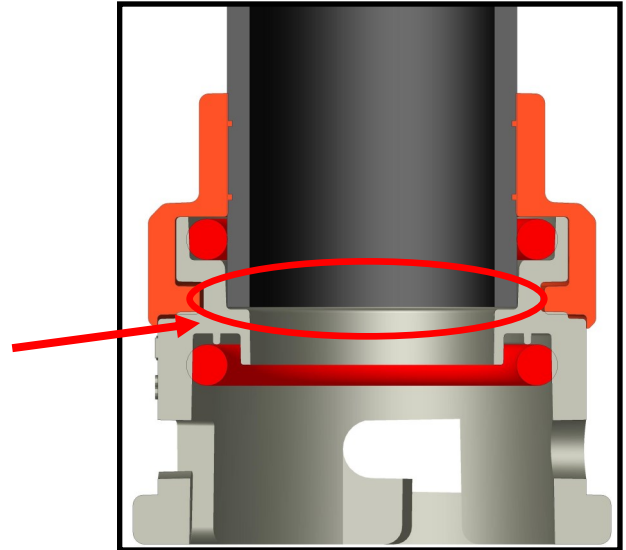


Figure 5B: Straight Style 1.25" OD connector
(exploded view)



Figure 5C: Sweep style 1.25" OD connector
(assembled)

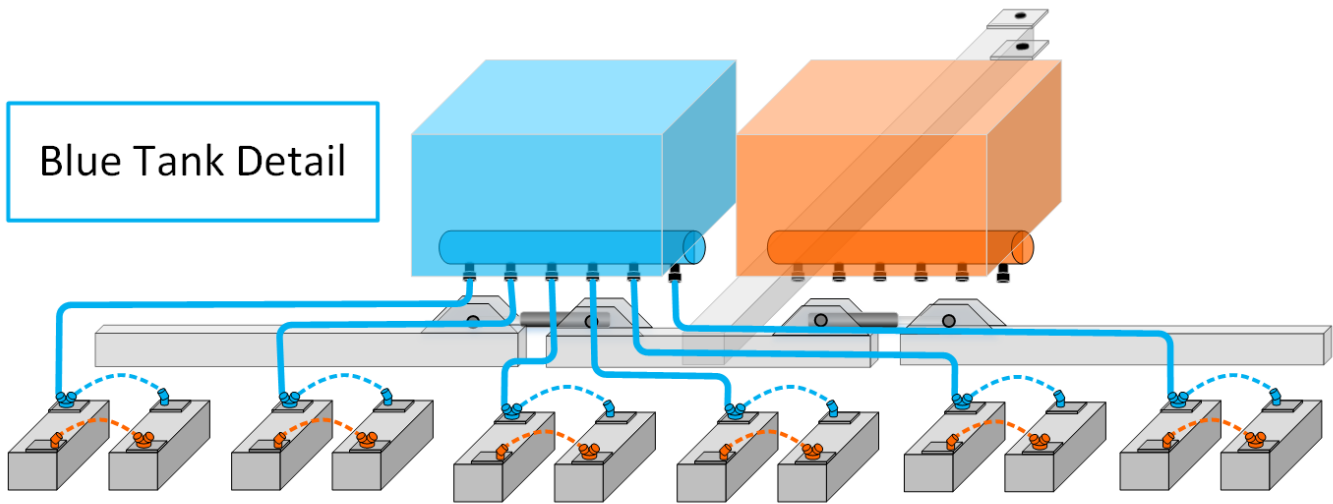
Step 6

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

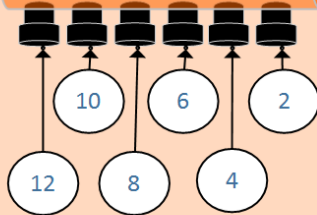
John Deere 1770 NT
12R30

Blue Tank Detail

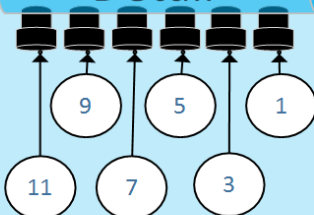


CCS / Seed Delivery Hose Connections

Blower Hose
Detail

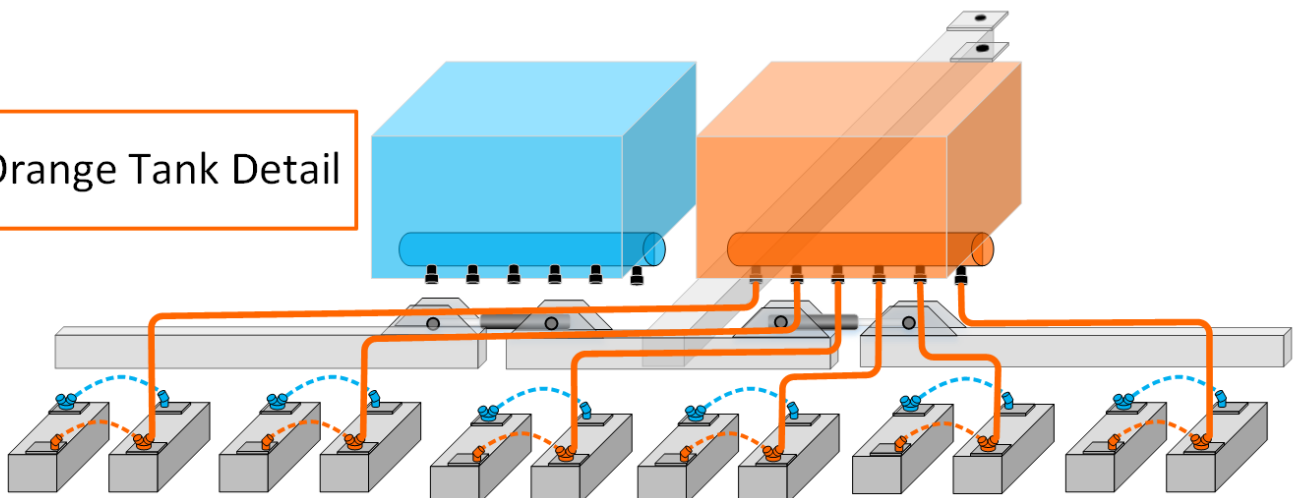


Blower Hose
Detail



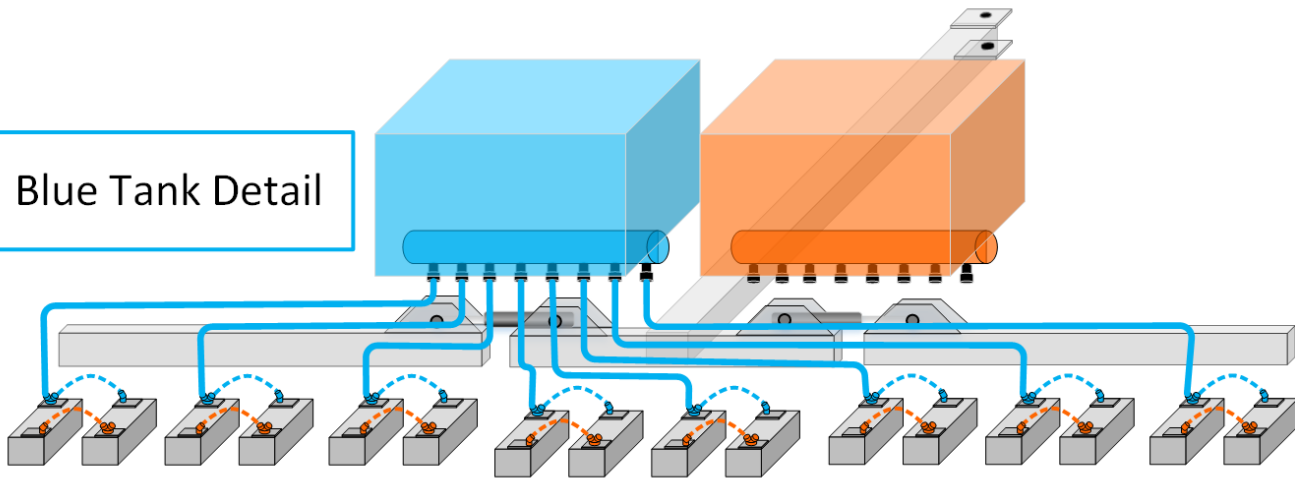
Row assigned to blower port
View from **FRONT** of Planter

Orange Tank Detail



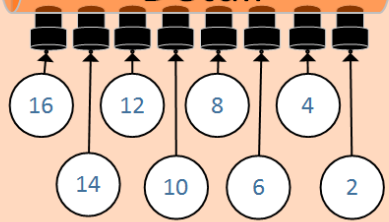
John Deere 1770 NT
16R30

Blue Tank Detail

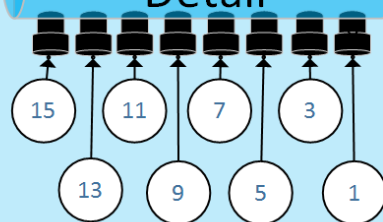


CCS / Seed Delivery Hose Connections

Blower Hose
Detail

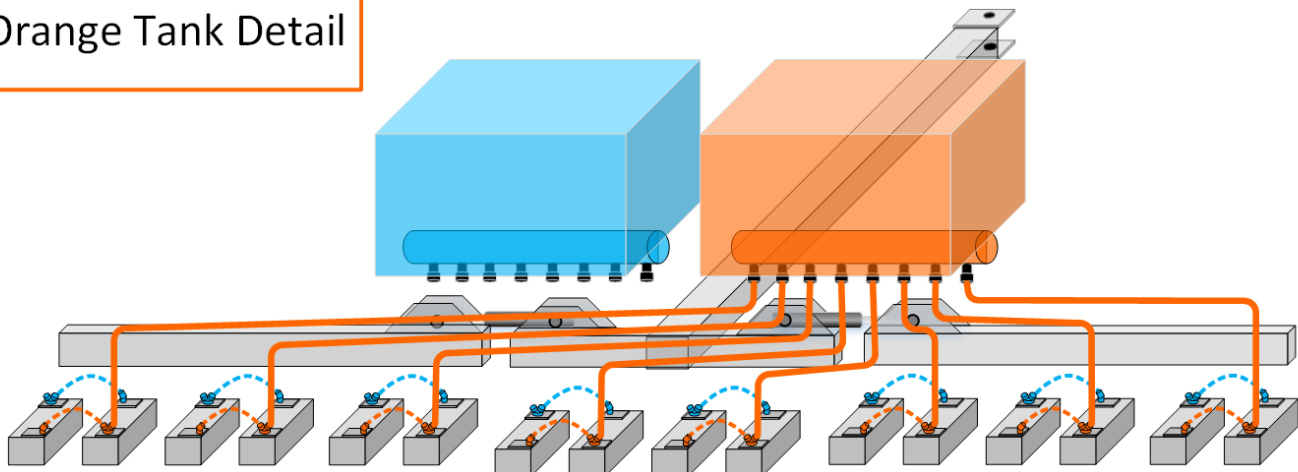


Blower Hose
Detail



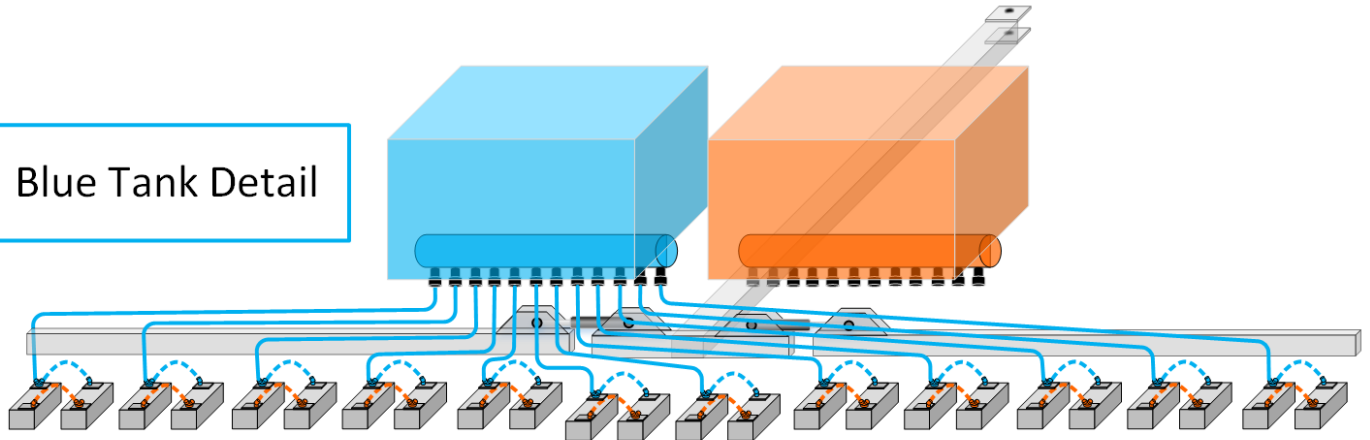
Row assigned to blower port
View from **FRONT** of Planter

Orange Tank Detail



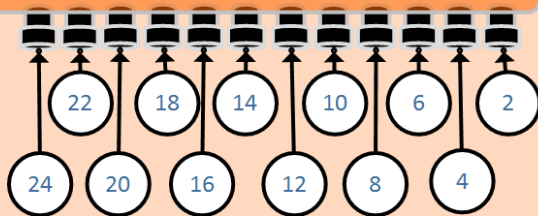
John Deere 1770 NT
24R30

Blue Tank Detail

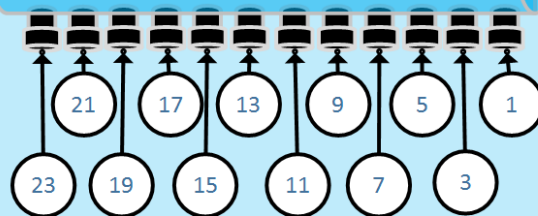


CCS / Seed Delivery Hose Connections

Blower Hose Detail

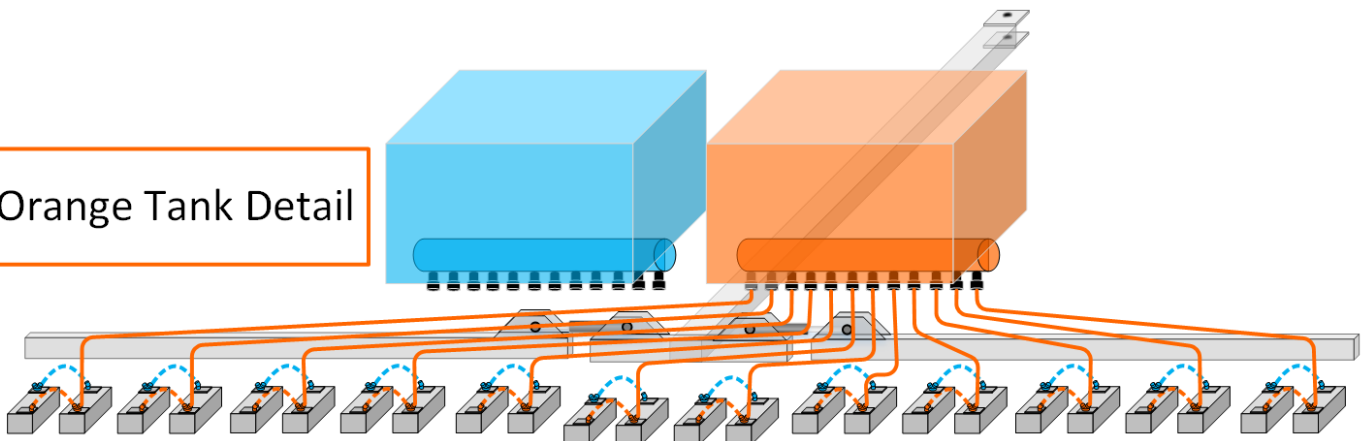


Blower Hose Detail



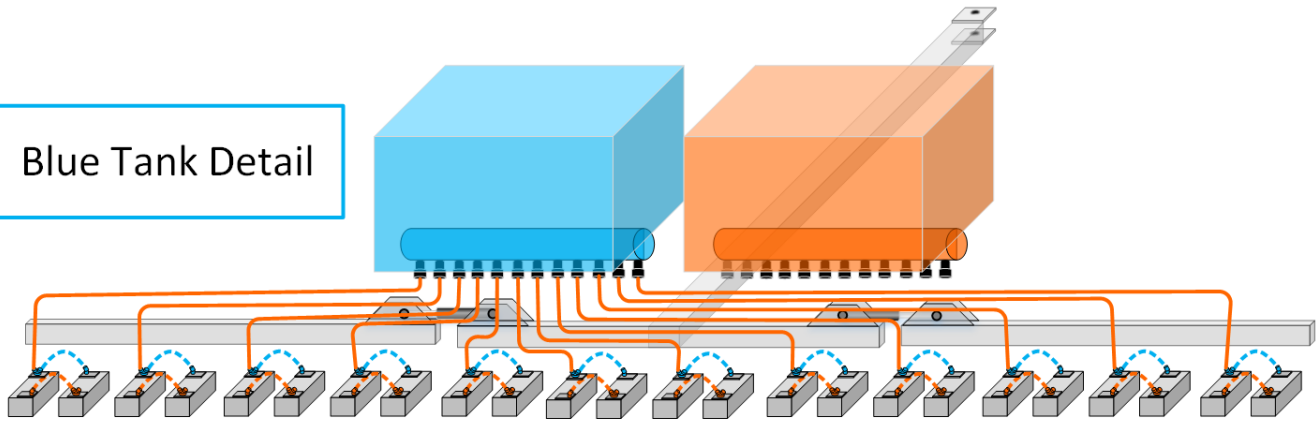
Row assigned to blower port
*View from **FRONT** of Planter*

Orange Tank Detail



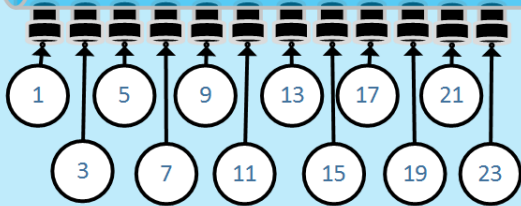
Deere/Bauer DB44
24R22

Blue Tank Detail

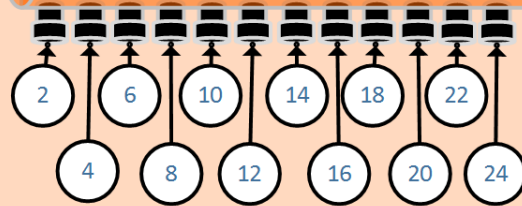


Seed Delivery Hose Detail

Blower Hose Detail

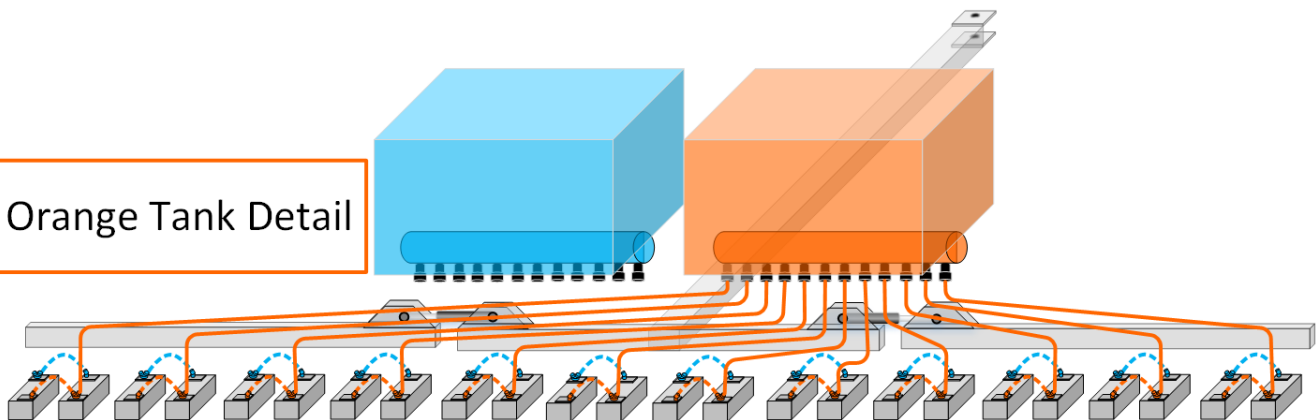


Blower Hose Detail



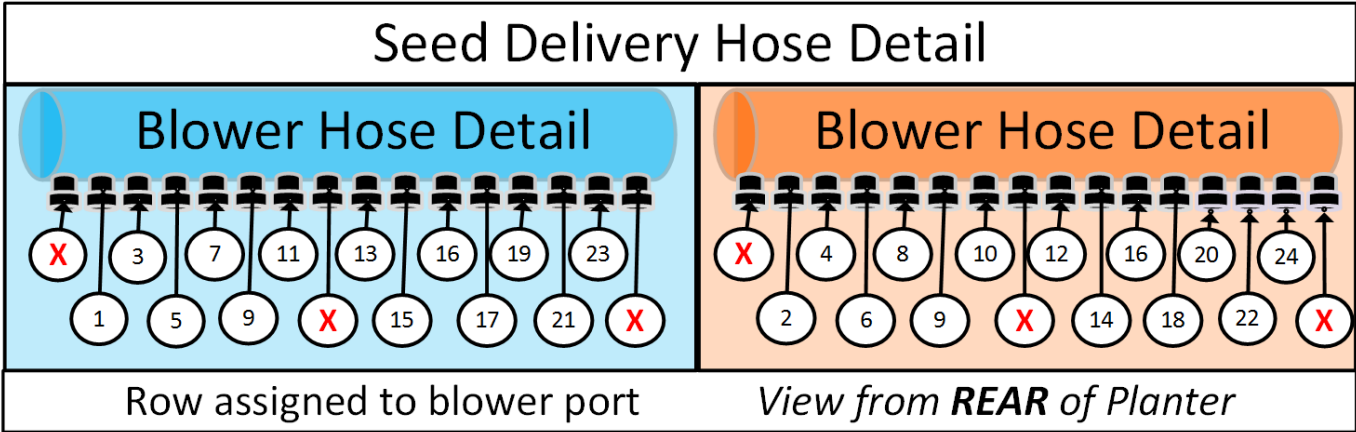
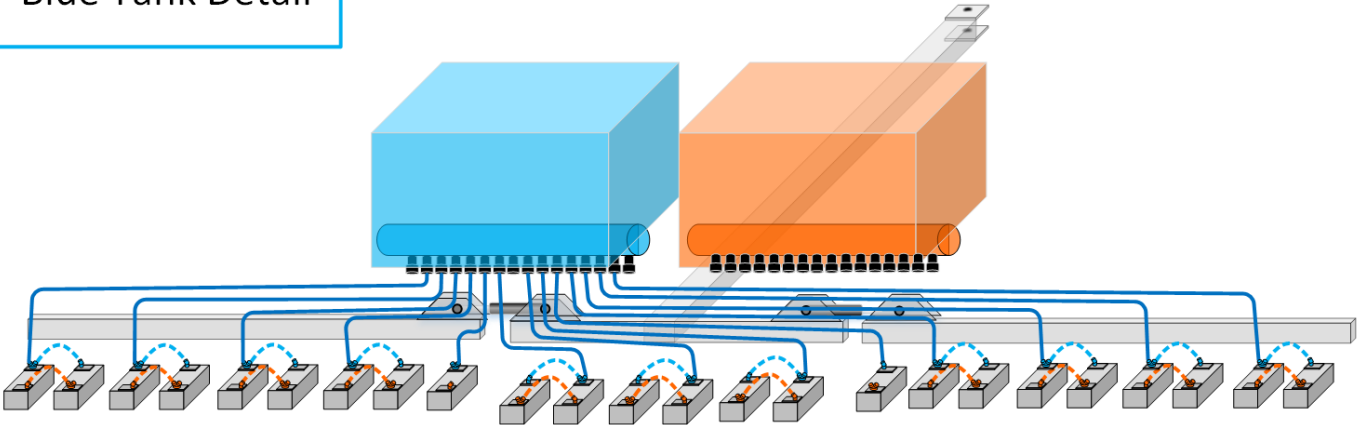
Row assigned to blower port
*View from **REAR** of Planter*

Orange Tank Detail



Blue Tank Detail

Deere/Bauer DB
24R30



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

Orange Tank Detail

