

Connecting Power to the Compressor

For Hydraulic Compressor Modules, the compressor is belt driven from an hydraulic motor within the enclosure.

Hydraulic Hose Kit



726400*	726405+	726410^	Part Number	Part Name	Description	Note
2	-	-	726401	TEE	-8 STOR TEE	A
4	2	2	726402	ELBOW	-8 STOR X -6 JIC 90 DEG ELBOW	B
-	-	2	726404	ADAPTER	-8 STOR X -6 JIC	C
2	2	2	726406	HOSE AS	ENCLOSURE TO TRACTOR	D
-	2	-	726421	REDUCER	-8 JIC X '6 JIC REDUCER	E
-	1	-	726424	ELBOW	-6 JIC 90 DEG SWIVEL ELBOW	E
-	2	-	726427	TEE	-8 JIC RUN TEE	E
-	-	2	726439	COUPLER	PIONEER COUPLING - POPPET STYLE	C

* THIS KIT IS INTENDED FOR INSTALLING IN CCS CIRCUIT OF DEERE PLANTERS

+ THIS KIT IS INTENDED FOR INSTALLING IN CCS CIRCUIT OF DB PLANTERS

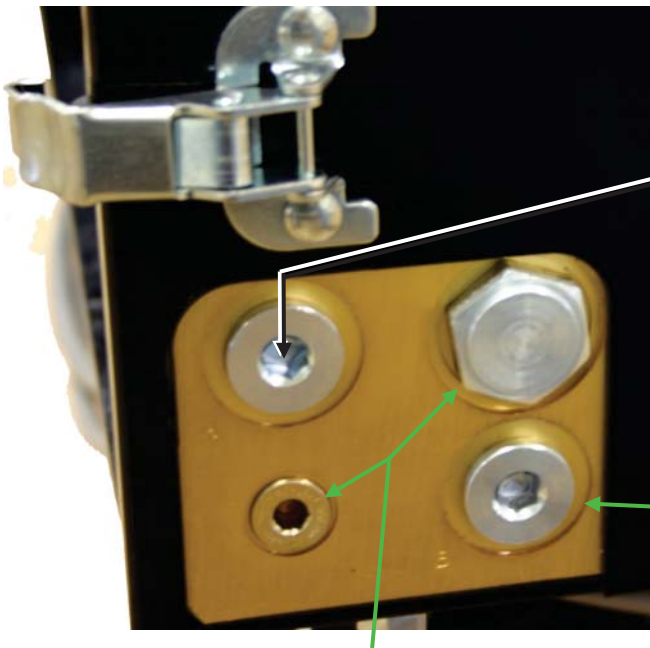
^ THIS KIT INTENDED WHEN USING A SEPARATE DEDICATED CIRCUIT FOR AIRFORCE COMPRESSOR

Note:	
A	Install between Pioneer quick couplers and existing hoses of planter
B	2 get installed at manifold on enclosure, 2 install into Tee's at hydraulic coupler
C	Install at end of hose which plugs into tractor
D	Enclosure to Tractor, approx. 10' lengths
E	Install at bulkhead fittings on planter hitch
E	
E	
C	

Standard Installation:

Compressor Module mounted on Draft Bar at the front of the planter

Plumbing to CCS Circuit / Planter Raise-Lower Circuit



Port A
Oil Inlet

Hydraulic Connections will be made to the front of the compressor module to the gold colored manifold in the lower left corner. Port A will be the oil inlet port - requires oil supplied to it. Port B will be the oil return port - oil is plumbed to return to the tractor. The lower left and top right ports are construction ports and will remain plugged.

Port B
Oil Return

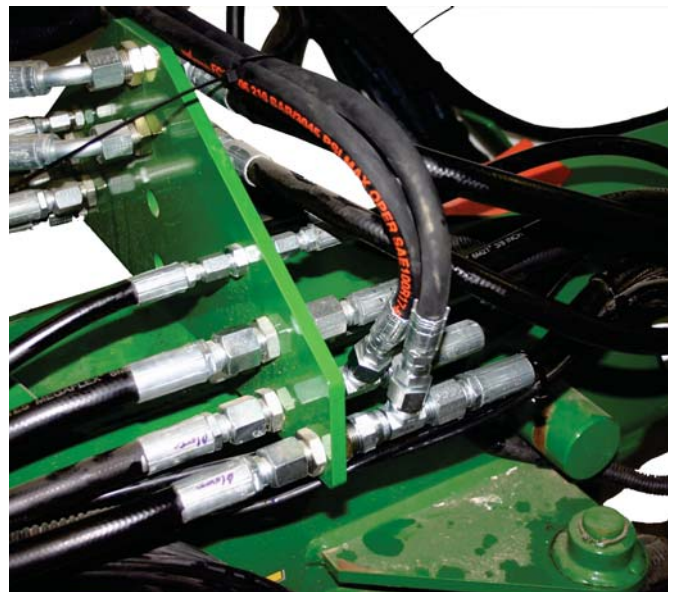
Construction Ports; these remain plugged

Locate the hydraulic circuit on the planter marked Frame or Lift. This should be the largest set of hoses leading to the planter and is the circuit responsible for raising and lowering the planter. Most planter manufacturers label these hoses with a colored cable in the context of '**Raising**' the planter; such as "Pressure" and "Return". The compressor module will be plumbed in reverse of this condition; or requires flow when '**Lowering**' the planter.

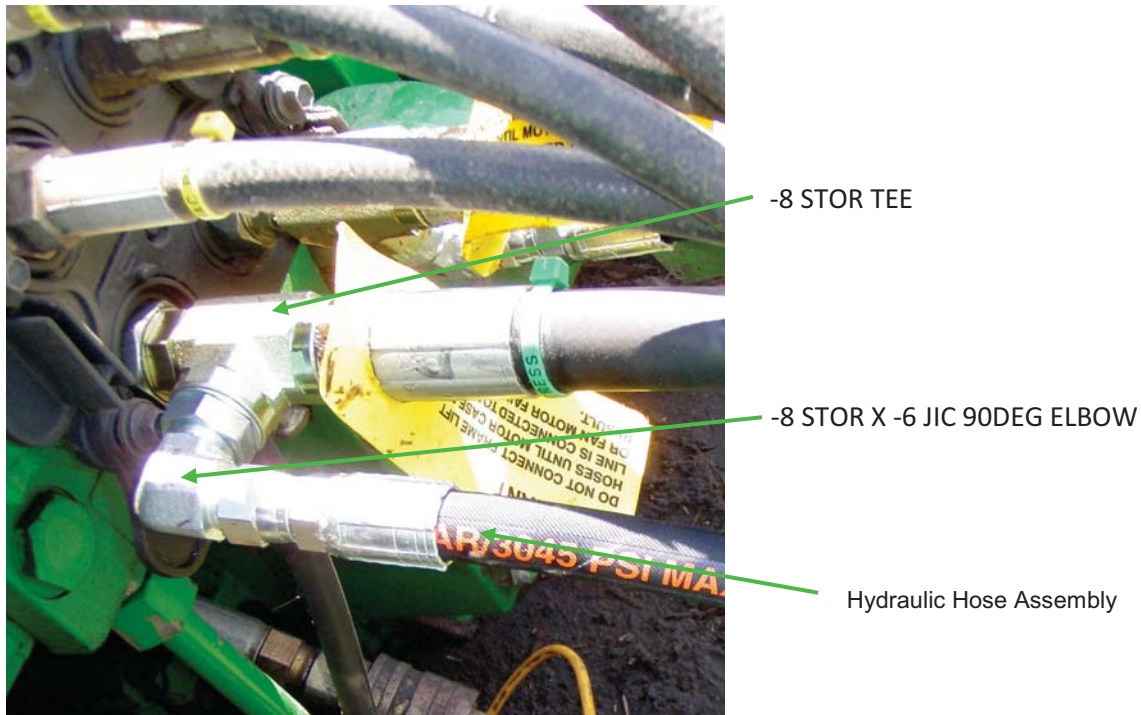
⇒ ⇒ Connect port **A** to the hose marked "Return"

⇒ ⇒ Connect port **B** to the hose marked "Pressure"

The image at right shows this connection made to the rear of the fixed plate on the front of **John Deere DB series** planters. Verify on your planter which hose is Pressure and which is Return.



For non-DB series planters, this connection should be made just behind the Pioneer couplers that plug into the tractor remotes. The images below show examples of this connection.

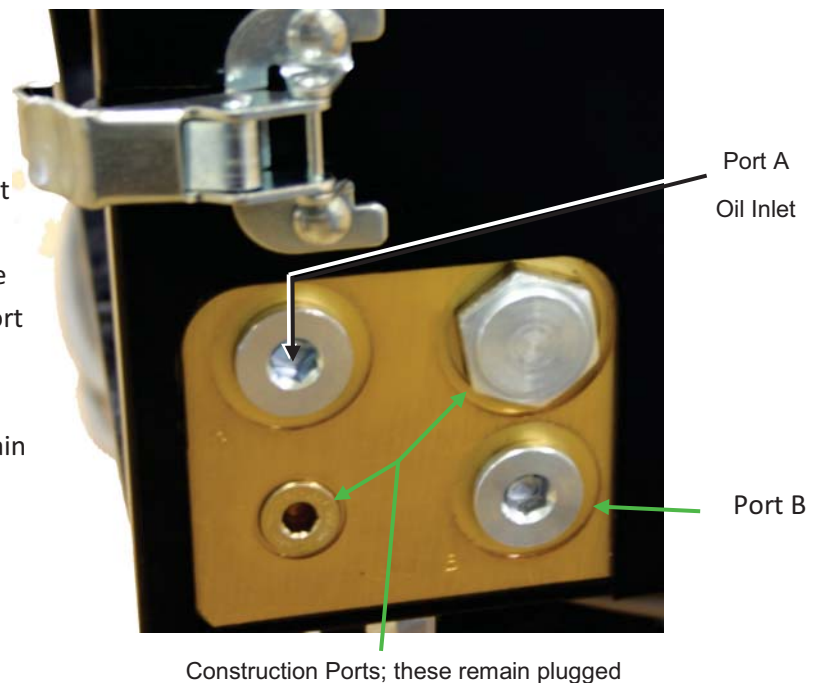


Non-Standard Installation:

Compressor Module installed at rear of planter

Plumbing to CCS Circuit / Planter Raise-

Hydraulic Connections will be made to the front of the compressor module to the gold colored manifold in the lower left corner. Port A will be the oil inlet port - requires oil supplied to it. Port B will be the oil return port - oil is plumbed to return to the tractor. The lower left and top right ports are construction ports and will remain plugged.



When installing the Compressor Module at the rear of the planter (most often on the tongue of the planter in front of the CCS blower or Refuge tank) hydraulic oil will need to be supplied from the planter's main hydraulic line or manifold. This is usually located at the center of the planter, under the CCS tanks or catwalks. You will need to locate the Frame/Planter 'Raise' and 'Lower' circuit lines or trace backwards from the CCS blower motor to the manifold to find the appropriate ports to tie into.

We **strongly discourage** getting the oil supply for the Compressor Module directly from the CCS blower hoses. This will add restriction to the line and could negatively affect CCS blower operation if done incorrectly.

Once the correct ports/hoses have been identified, you can 'T' into the lines just as with a standard installation. The required fittings for this installation may vary, but the most common fittings required are listed below. These may be obtained locally or through Precision Planting using the part numbers referenced.

Quantity	Part Number	Description
2	726428	-10 JIC TEE
2	726422	-10 JIC X -6 JIC REDUCER
2	726402	-8 SAE X -6 JIC ELBOW
2	726430	HYD HOSE (approx. 100" long)
2	726440	-6 JIC Straight Coupling (for use with 726430 hose only)

Quick Checks for Hydraulic Compressors

Common reasons Hydraulic Compressor will not operate:

- ⇒ Planter must be lowered
- ⇒ Hydraulic Circuit must be connected **and** engaged
- ⇒ Tank Pressure is within 25psi of target (ie; target tank pressure is 150psi, actual tank pressure must be <125psi before compressor will engage)
- ⇒ Verify that circuit is plumbed correctly: the hose into Port **A** should visibly pulse when the circuit is energized.
- ⇒ AirForce System must be "Enabled" within the 20/20 SeedSense monitor.
- ⇒ To test the system, the AirForce system must be in 'Manual' mode (selected on the monitor through