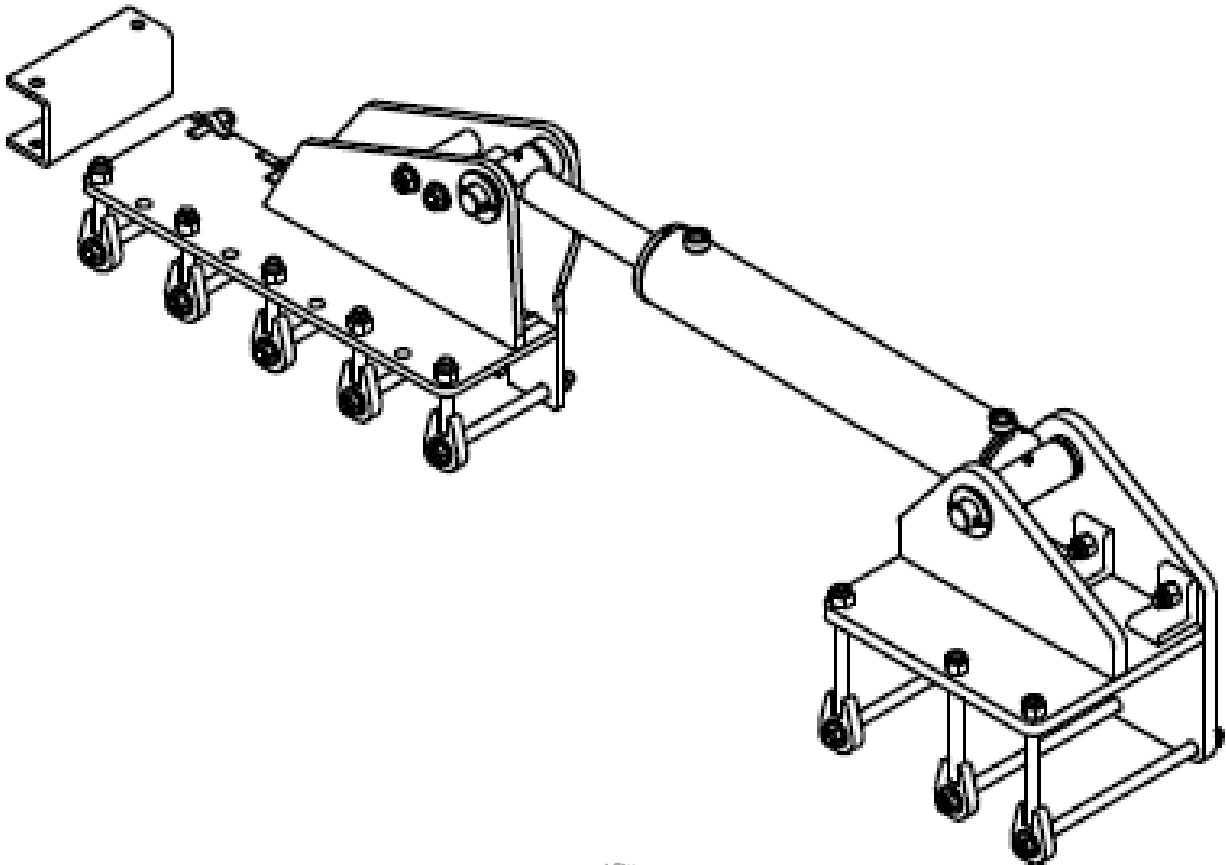


900441

JD DB60 WEIGHT TRANSFER SYSTEM

INSTALLATION INSTRUCTIONS



MARTIN PLANTER ATTACHMENTS

Martin Industries LLC

206 Elk Fork Road

Elkton, KY 42220

Telephone: 270-265-5817

E-Mail: martin@martintill.com

www.martintill.com

BEFORE INSTALLATION BEGINS EVALUTE POSSIBLE CLEARANCE ISSUES

It is important to verify that you do not have any installed accessories that may cause an interference problem when the planter is folded for transport. Mounting of liquid fertilizer tanks , air compressors, or other accessories along the center spine of the planter must be evaluated for interferences before and carefully confirmed after the initial installation upon the first time folding the planter. Every effort has been made to minimize the possibility of interferences, however any customizations or accessories mounted MUST be carefully evaluated by the installer to prevent the possibility of equipment damage.



STEP 1 : DETACH EXISTING COMPONENTS

Seed hose riser brackets and hoses will need to be detached and pulled aside for installation of Weight Transfer System. Also if needed, hose tie down bracket will need to be removed from frame.

SEED HOSE RISER BRACKET

SEED , HYDRAULIC
AND VACUUM HOSES

HOSE TIE DOWN BRACKET



Seed hose riser bracket shown repositioned to the side.



STEP 2 : MOUNT TOP BRACKETS AND FRONT PLATES

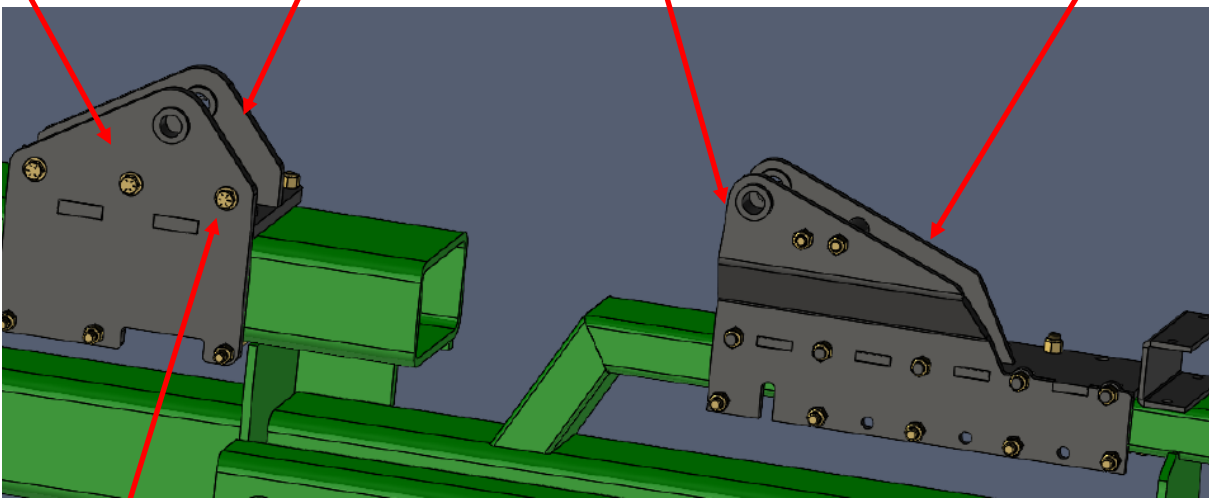
LEFT SIDE SHOWN: Place top bracket (850287) on top of frame top bar. Place front plate (850285) on the front of the bar as shown, aligning the tabs on the bracket with the slots on the front plate. See reference locations below. Install the 3, 5/8—11 x 1 3/4 bolts through the 3 uppers holes in the front plate and the angles in the top bracket, install the 5/8 flange nuts finger tight to hold assembly in place for the remaining steps. Place top bracket (850291) on top of wing top bar. Place front plate (850289) on the front of the bar as shown, aligning the tabs on the bracket with the slots on the front plate. See reference locations below. Install the 5, 5/8 nuts on the 5 studs of the top bracket, install the 5/8 flange nuts finger tight to hold assembly in place for the remaining steps.

Front plate
(850285)

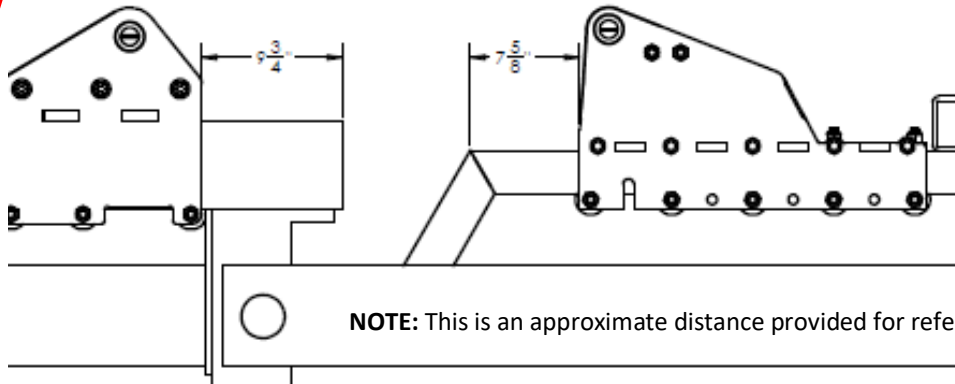
Top bracket
(850287)

Front plate
(850289)

Top bracket
(850291)



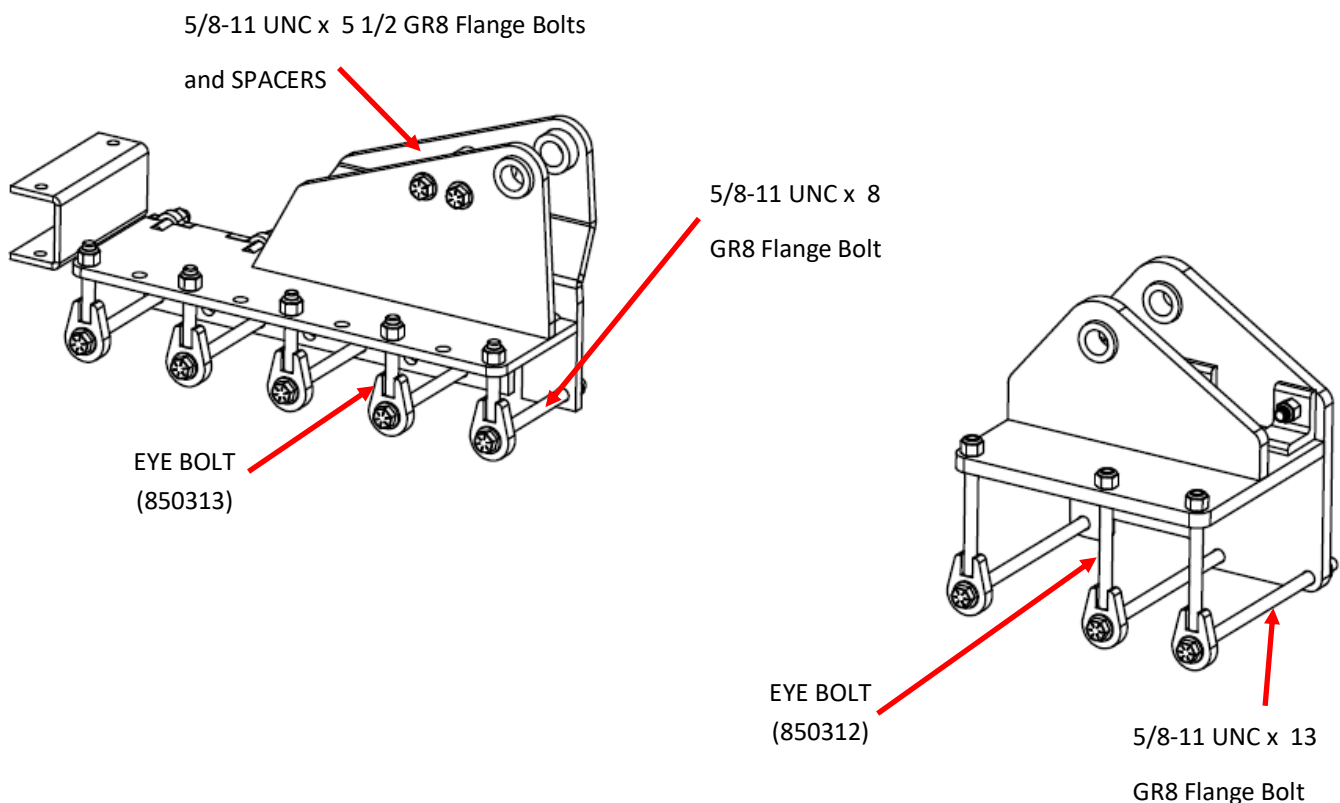
5/8—11 x 1 3/4
GR8 Flange Bolt



STEP 3 : INSTALL THE EYE BOLTS AND SPACERS

With the top plate and front brackets in place, insert the Eye bolts from underneath the toolbar inserting them in the outermost holes in the top brackets. Start the 5/8 flange nuts on the Eye bolts to retain it in the hole, then place the cross 5/8-11 bolts through the Eye bolts and the lower holes of the front plates. Start the 5/8 flange nuts on the bolts to retain them in the holes. NOTE: 9 holes have supplied in the Wing bracket for alternate locations of Eye bolts. Install the two spacers (800821) in holes provided between uprights using 5/8-11 X 5 1/2 bolts and nuts finger tight to hold the assembly together for remaining steps.

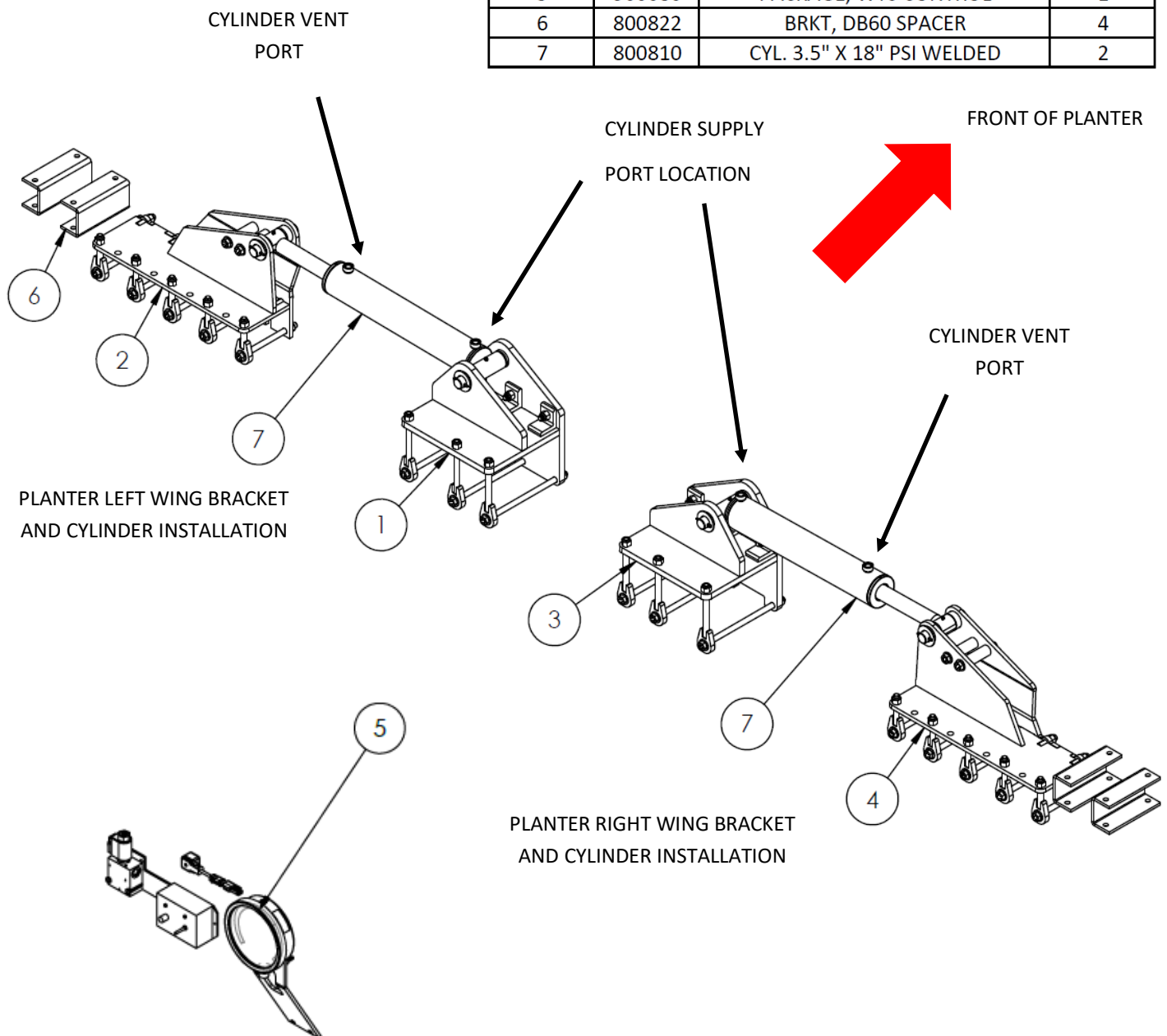
Snug all bracket bolts leaving spacer bolts finger tight. Lastly tighten all bracket bolts to 150 ft/lbs (dry).



STEP 4 : ATTACH THE HYDRAULIC CYLINDERS

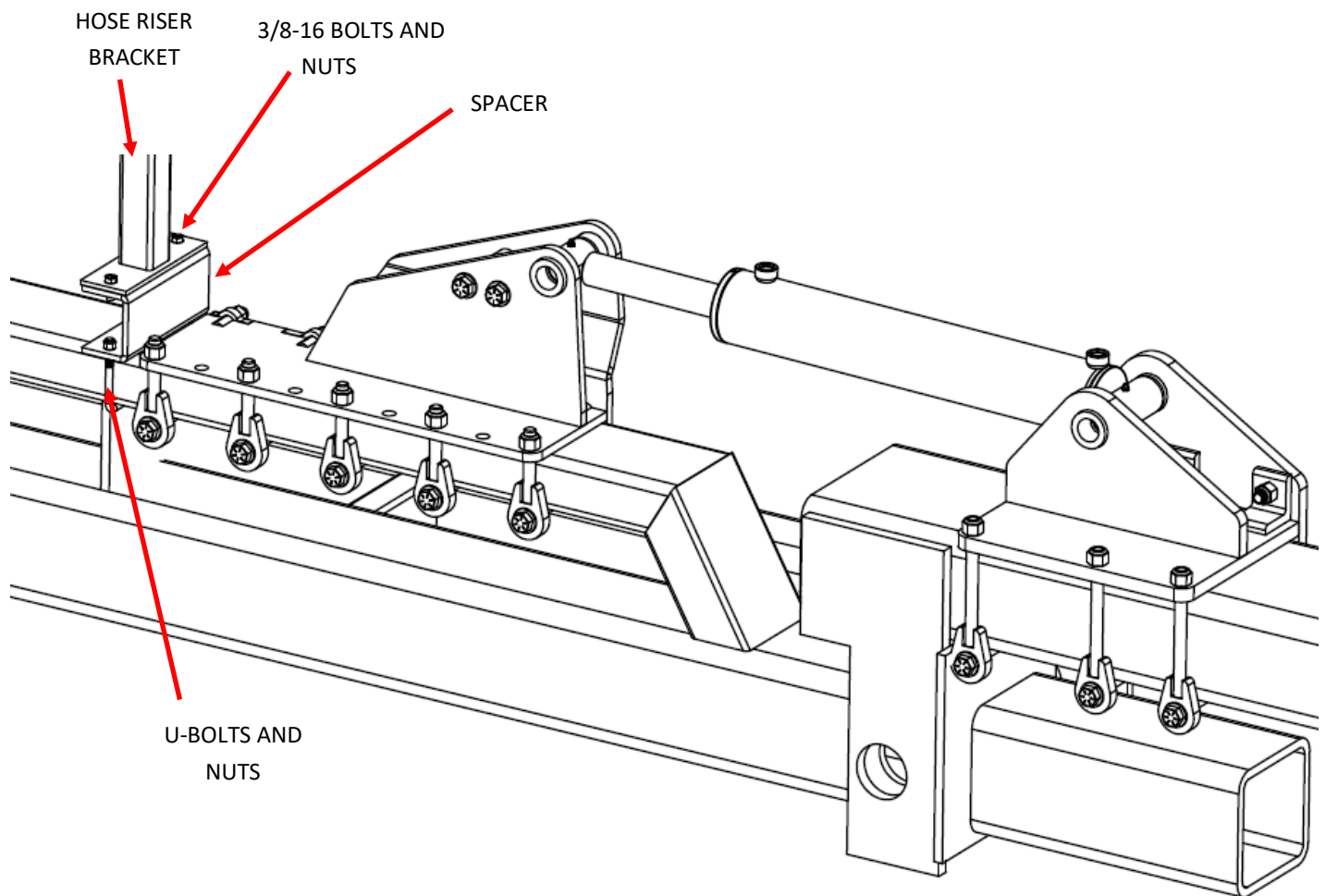
Install the cylinders to the bracket assemblies using the supplied clevis and cotter pins. The cylinder should be installed so that the hydraulic ports are facing up. The cylinder's base end must be attached to the bracket of the center section of the planter for the WTS system to work properly . Install the brass breather vent (800192) on the Gland port (rod end) of the cylinder to allow venting of the gland side during operation. Tighten spacer bolts to 150 ft/lbs (dry).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	900447	BRKT ASSY, WTS DB60 FRAME, LH	1
2	900449	BRKT ASSY, WTS DB60 WING, LH	1
3	900446	BRKT ASSY, WTS DB60 FRAME, RH	1
4	900448	BRKT ASSY, WTS DB60 WING, RH	1
5	900080	PACKAGE, WTS CONTROL	1
6	800822	BRKT, DB60 SPACER	4
7	800810	CYL. 3.5" X 18" PSI WELDED	2



STEP 5 : INSTALL HOSE RISER BRACKET SPACERS

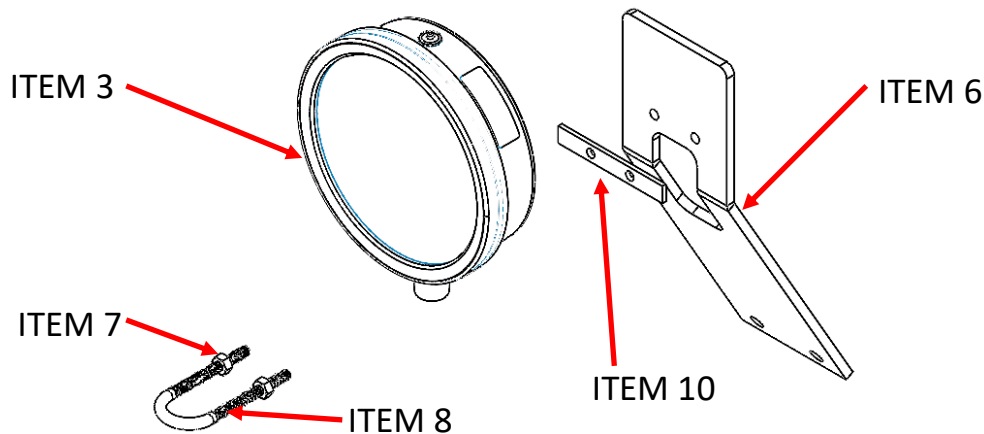
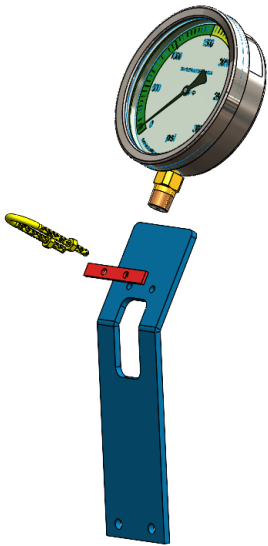
Attach hose riser bracket spacers on hose riser brackets using 3/8-16 bolts and nuts. Reposition and mount hose riser brackets to wing top bar using u-bolts and nuts removed in step 1. Location shown below is for reference only. Every effort has been made to minimize the possibility of interferences, however any customizations or accessories mounted MUST be carefully evaluated by the installer to prevent the possibility of equipment damage. It is up to the installer/owner to properly reroute and resecure the hoses according to the space available and the accessories installed on each particular planter.



Notes

STEP 6: INSTALL GAUGE

1. Mount the gauge as close to the hitch area as possible so It can be easily viewed while in operation. It comes with a black bracket that can be bolted to the main frame on JD. If your planter does not have this mounting location you will need to fabricate something to hold the gauge.
2. When installing, make sure to place the shim as shown to prevent vibration.

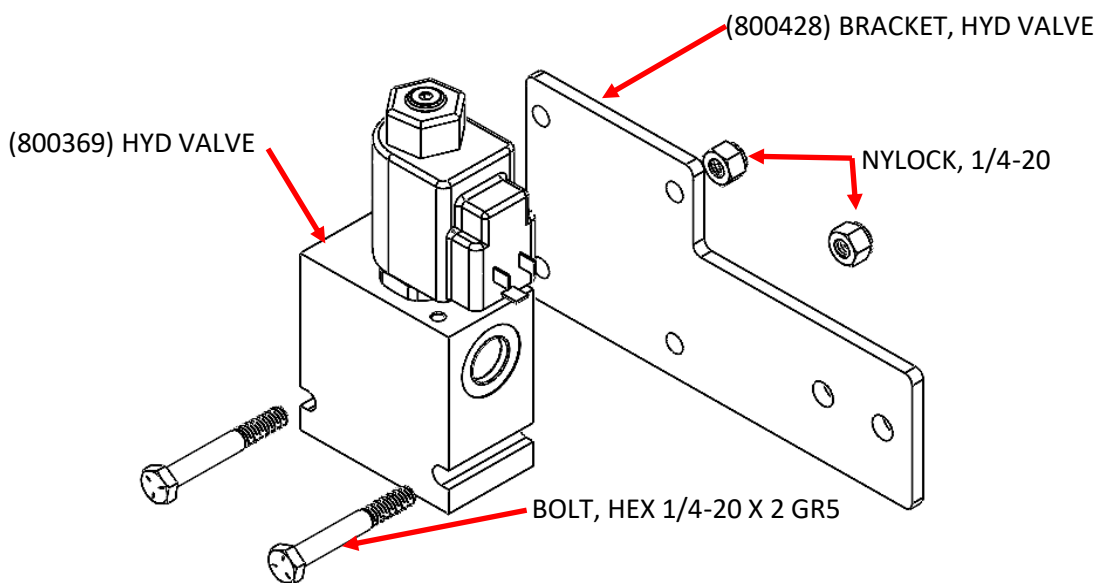


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	800458	GAUGE,0-300 PSI ,MARTIN TILL	1
6	800660	GAUGE MOUNT	1
7	709052	1/4-20 X 1-3/8 U BOLT	1
8	757100	NUT,NYLOCK,1/4-20	2
10	800875	SHIM, WTS GAUGE MOUNT	1

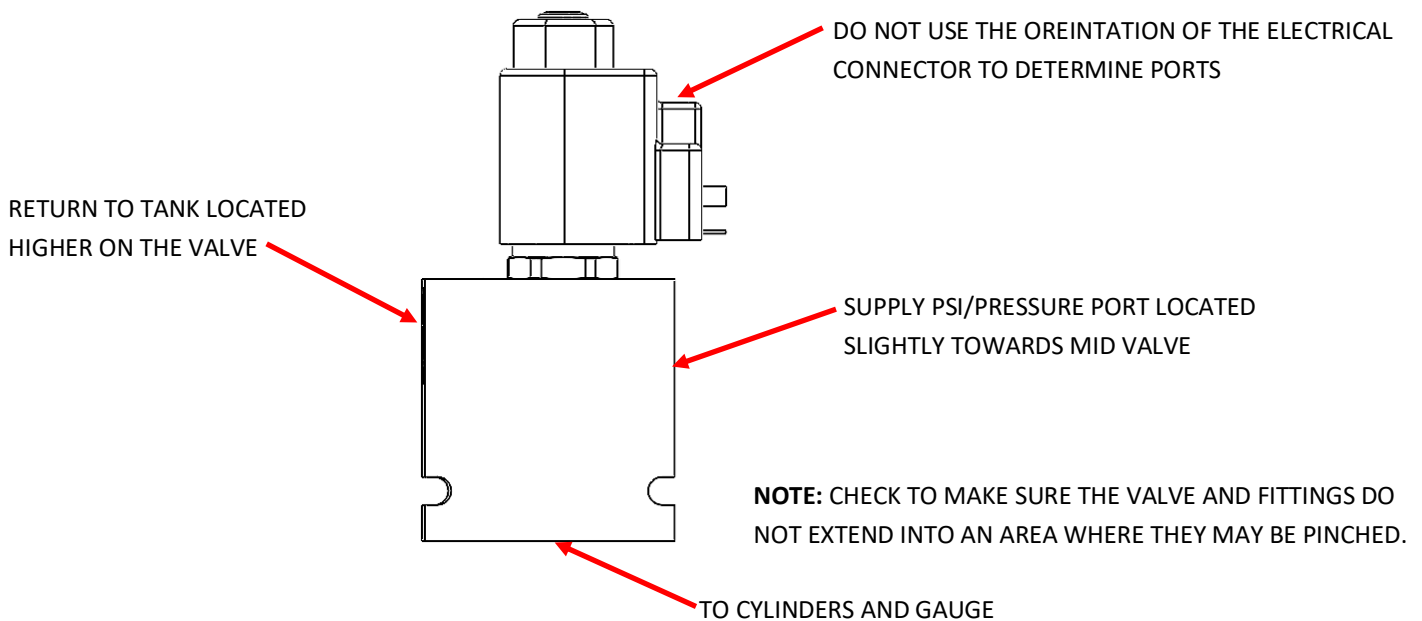
STEP 7: INSTALL 800369 HYDRAULIC VALVE

Due to the unique nature of the installations on each planter the hoses are not supplied with this kit and it is up to the installer/owner to properly route and secure the hoses according to the space available and the accessories installed on each particular planter. The use of 5000 psi rated hose is strongly recommended.

Your kit will be supplied containing a high quality hydraulic valve assembly. Due to availability, the brand may be different from what is shown. It is important to note the port positions and functions are the same on all Martin Till valves however the markings may vary. The supplied valve may be mounted in any desired location but typically would be installed in the center of the planter to reduce hose lengths.



NOTE: VALVE CAN BE ROTATED 90 DEGREES ON THIS BRACKET



STEP 8: HYDRUALIC CONNECTIONS

There are two options for connection of the weight transfer system to your tractor. When you want the system active determines which of the two options will work best for your application. Note: All hydraulic returns must be unobstructed. Due to the unique nature of the installations on each planter, the hoses are not supplied with this kit and it is up to the installer/owner to properly route and secure the hoses according to the space available and the accessories installed on each particular planter. The use of 5000 psi rated hose is strongly recommended.

Option 1: (recommended)

Weight transfer system is active while in plant mode only (Recommended). Frame pressure at the CCS fan turns on and off with the CCS fan on JD. CIH maintains pressure at the fan. **Note: Do not connect the return to the motor case drain as this may cause seal damage.**

Option 2: (Only with Power Beyond)

Attach the hydraulic supply and return to Power Beyond. **Also see 900440 Weight Transfer System Control instructions**

OPTION 1: HYDRAULIC CONNECTIONS (Recommended) (See page 11)

1. **Hydraulic supply:** Connect to "Frame Supply" prior to the CCS fan speed control. (Suggest using #8 JIC running tee). See instructions 900440 Weight Transfer System Control.
2. **Hydraulic return:** Connect to "Frame Return". Suggested that you splice into the system after the oil cooler at the CCS fan. It is important that return to tank path is completely unrestricted/unobstructed.

WARNING: Do not use the motor case drain for return hydraulics, this routing will damage your seals.

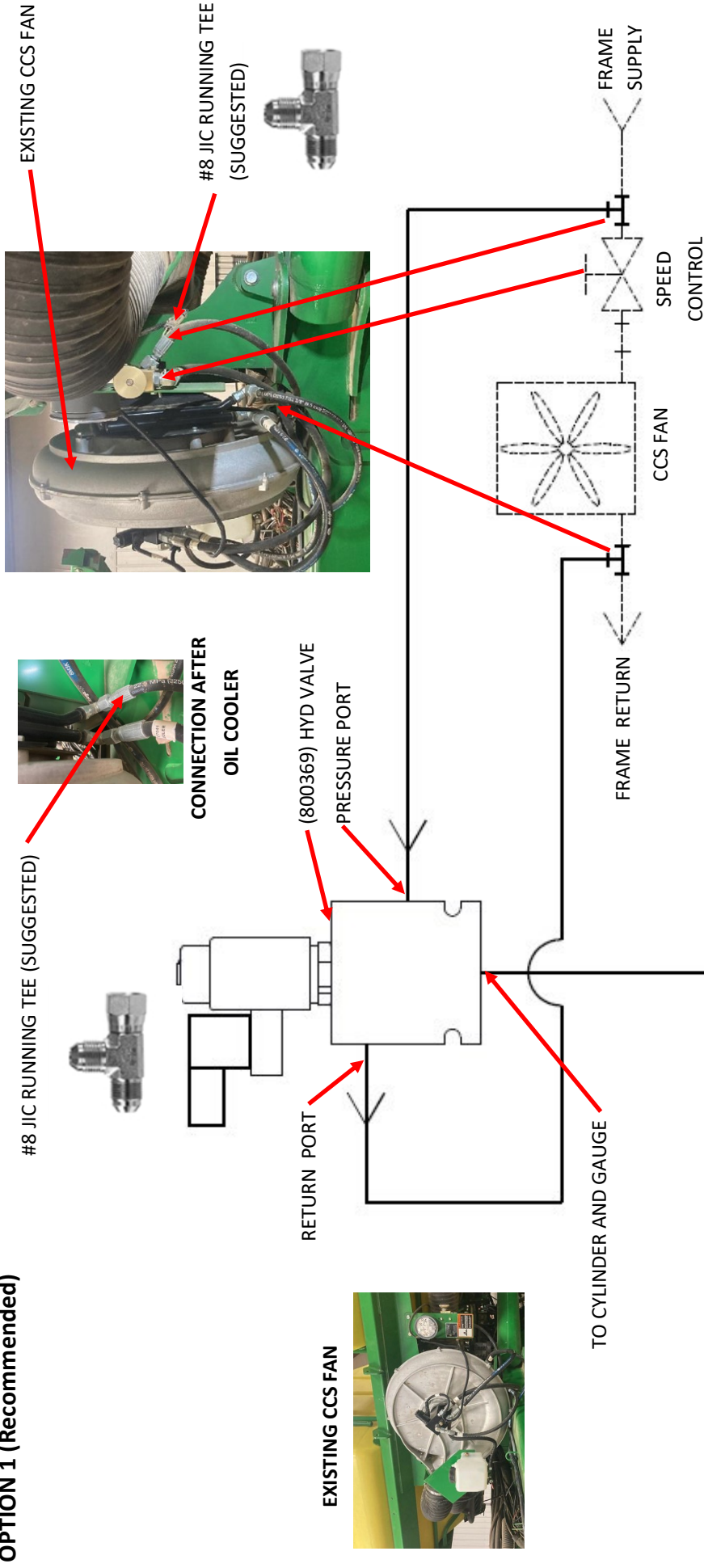
OPTION 2: HYDRAULIC CONNECTIONS (See page 12)

1. Connect to supply at Power Beyond. This will provide for constant power. Operator must remember to turn cab controller off while folding. Also see 900440 Weight Transfer System Control instructions
2. Connect to return at Power Beyond. Return to tank must be unobstructed

WARNING:

Wing VAC fan, not recommended. SCV must be either in continuous or float at all times. Failure to use the correct settings will cause the system to build Max PSI while the planter is folded.

OPTION 1 (Recommended)



OPTION 1 (Recommended)

SPEED CONTROL (BACK SIDE)



#8 JIC RUNNING TEE (SUGGESTED)

Do not return thru motor case drain. Seal damage will occur!

OPTION 2

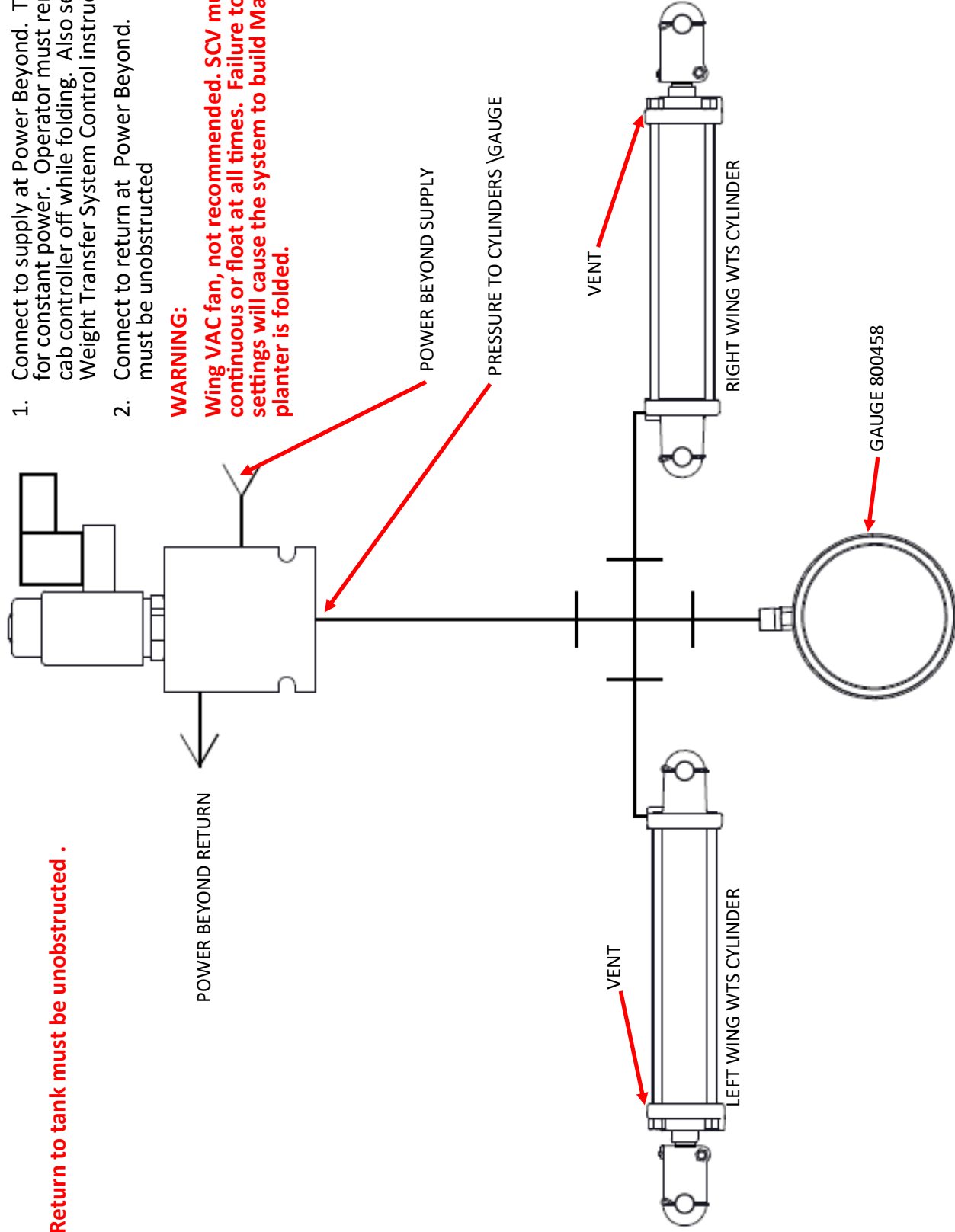
Return to tank must be unobstructed .

OPTION 2: HYDRAULIC CONNECTIONS

1. Connect to supply at Power Beyond. This will provide for constant power. Operator must remember to turn cab controller off while folding. Also see 900440 Weight Transfer System Control instructions
2. Connect to return at Power Beyond. Return to tank must be unobstructed

WARNING:

Wing VAC fan, not recommended. SCV must be either in continuous or float at all times. Failure to use the correct settings will cause the system to build Max PSI while the planter is folded.

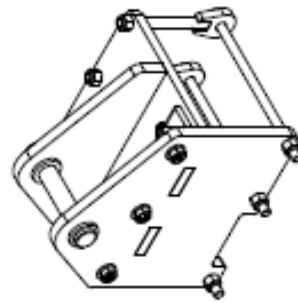
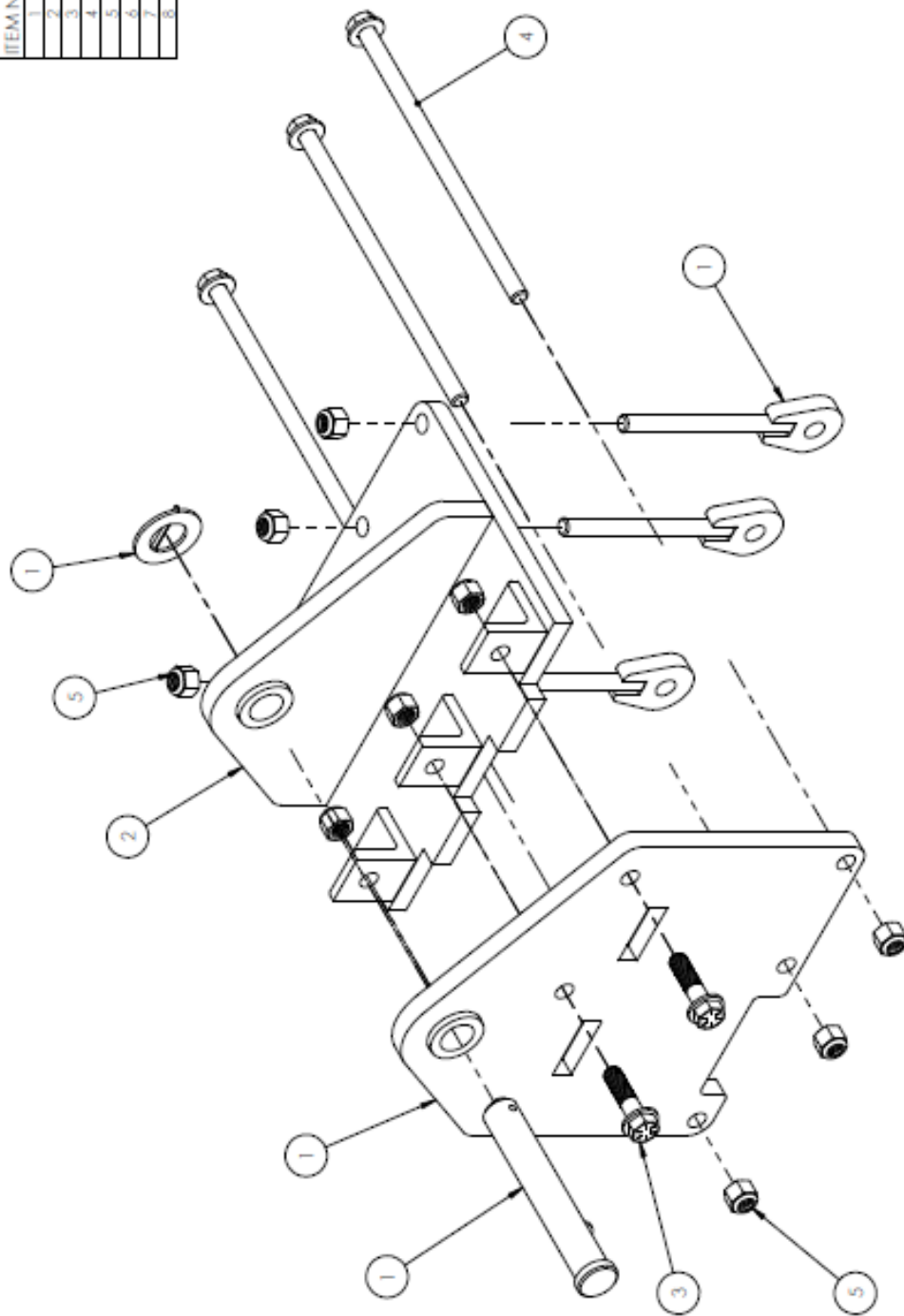


OPTION 2

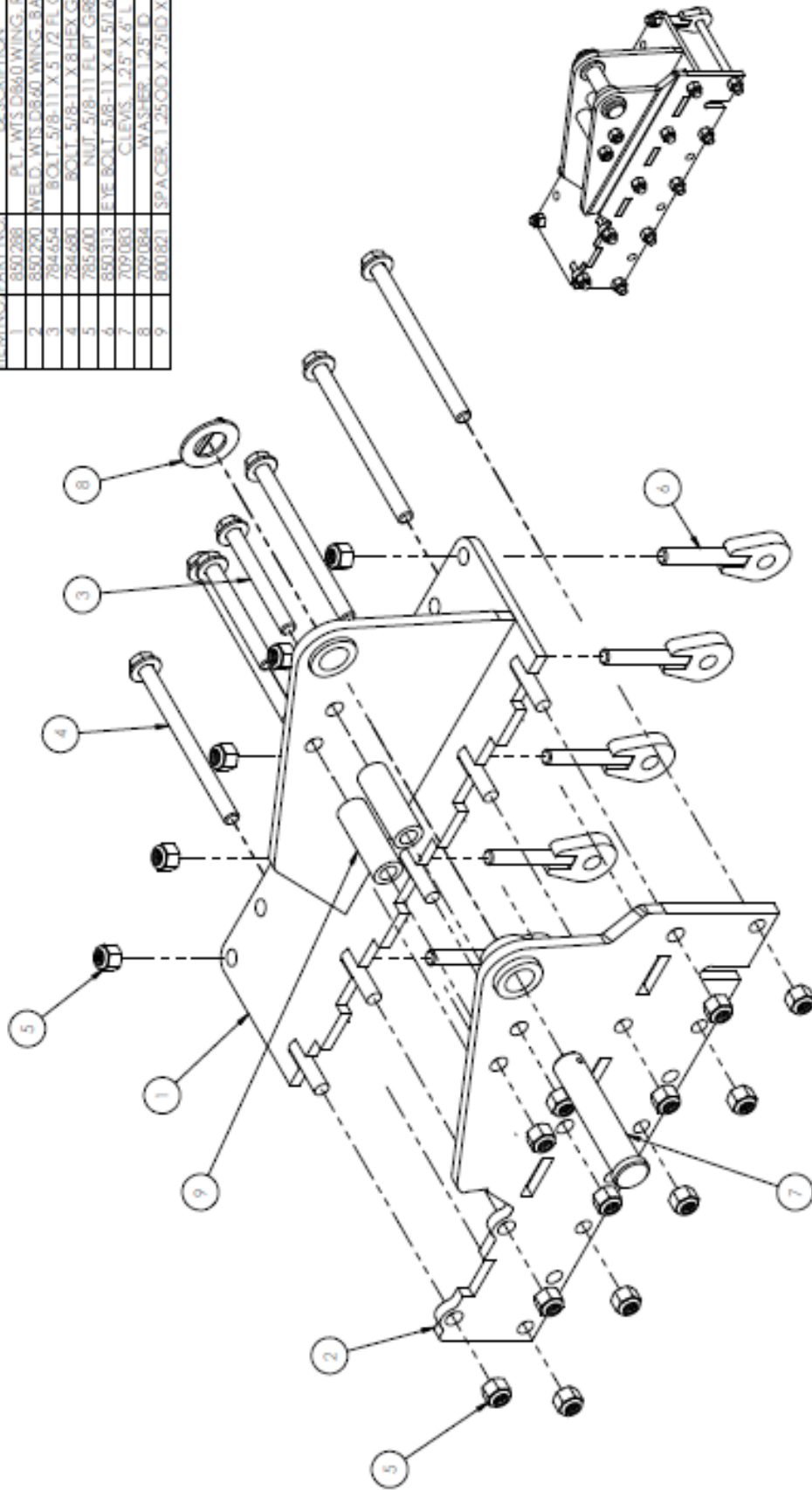
Do not return thru motor case drain. Seal damage will occur!

Notes

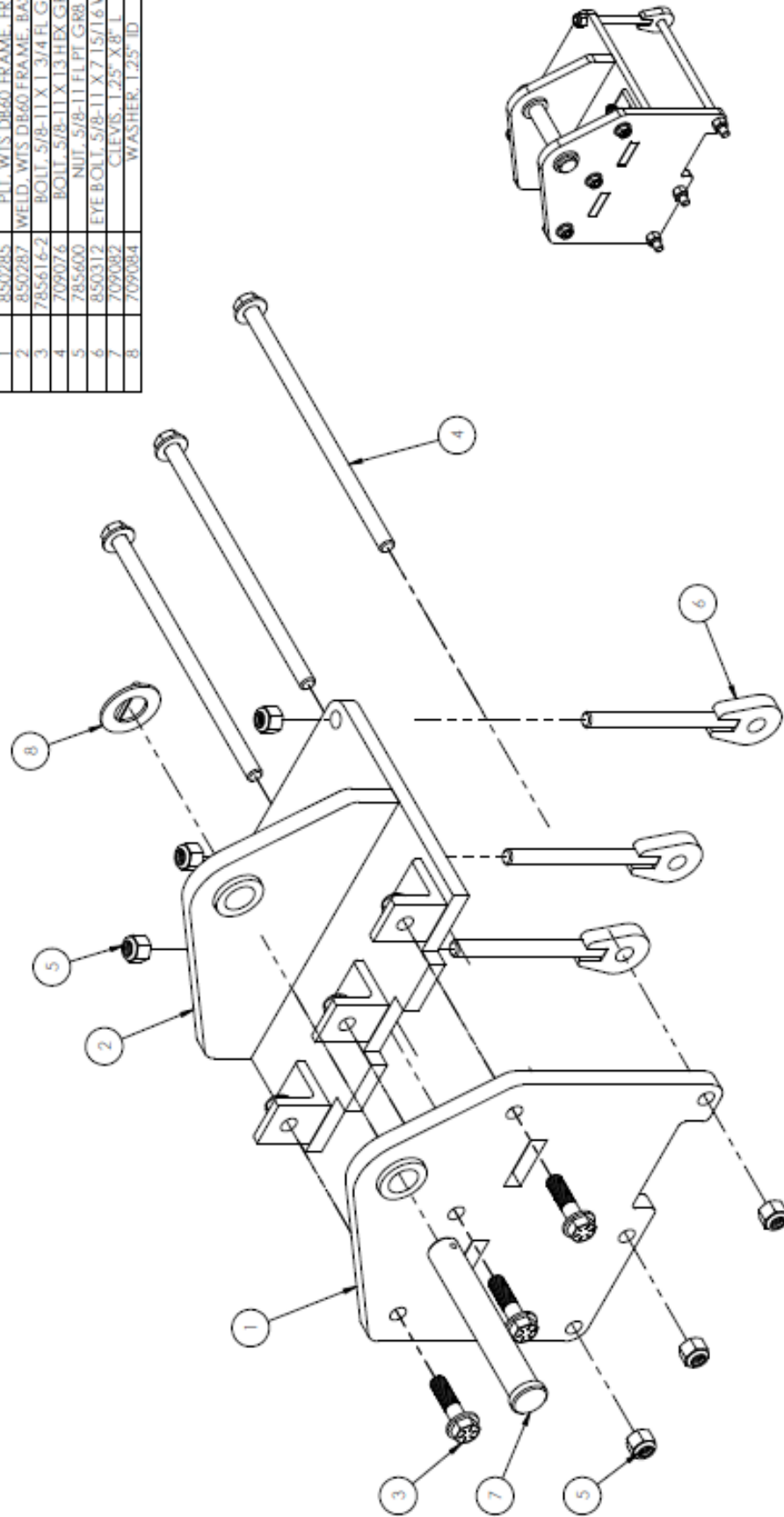
900446 BRKT ASSY, WTS DB60 FRAME, RH			
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	850285	PLT WTS DB60 FRAME FRNT	1
2	850286	WELD WTS DB60 FRAME BASE RH	1
3	785616-2	BOLT 5/8-11 X 1 3/4 PL GR8	3
4	709076	BOLT 5/8-11 X 13 HEX GR8	3
5	781500	NUT 5/8-11 PL PT GR8	9
6	850312	EYE BOLT 5/8-11 X 7 15/16 WELD	3
7	709082	CLEVIS 1 25" X 6" L	1
8	709084	WASHER 1 25" ID	1



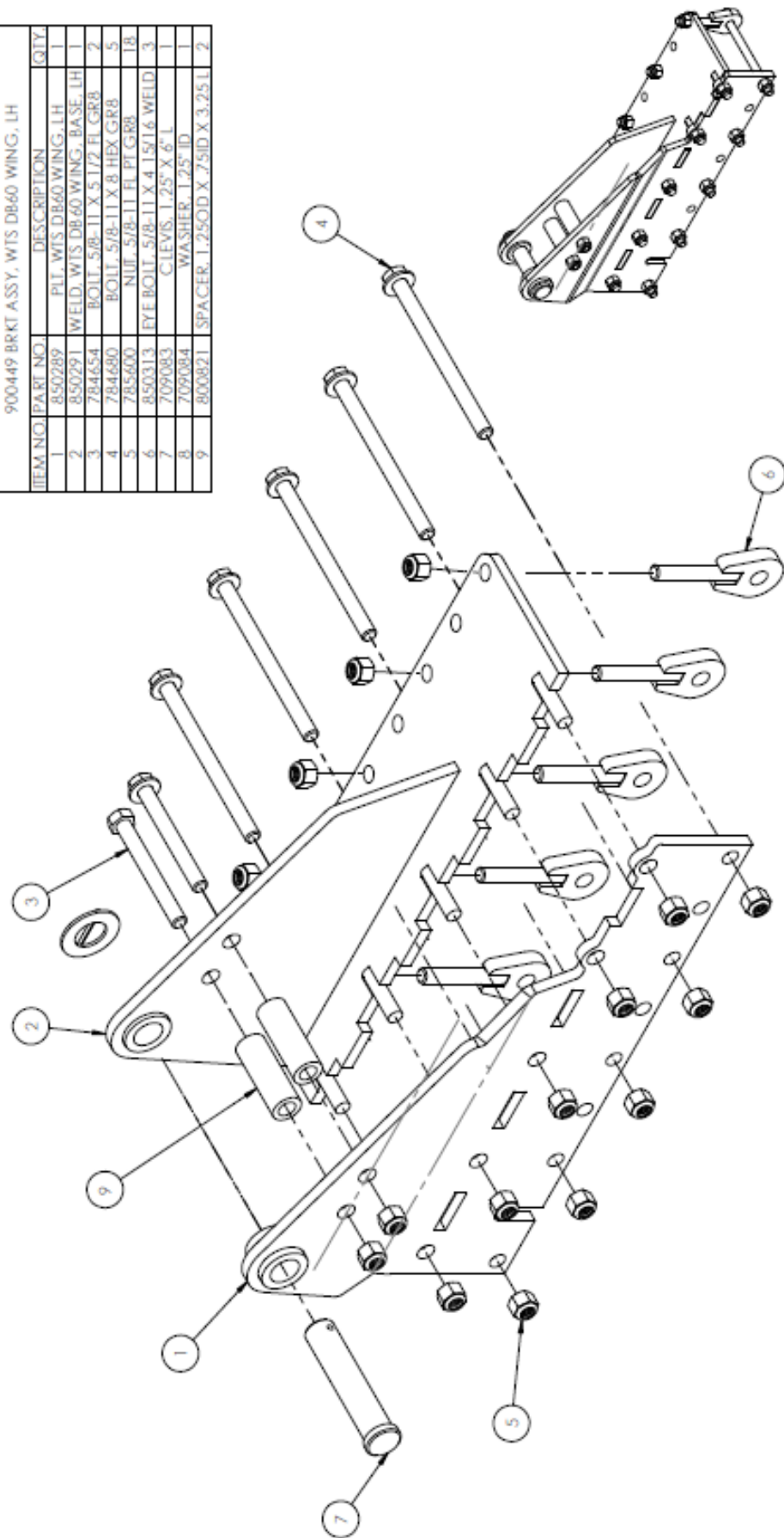
900448 BRKT ASSY, WTS D860 WING, RH			
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	850288	PLT, WTS D860 WING, RH	1
2	850280	WELD, WTS D860 WING, BASE, RH	1
3	784654	BOLT, 5/8-11 X 5 1/2 FL GR8	2
4	784680	BOLT, 5/8-11 X 8 HEX GR8	5
5	785600	NUT, 5/8-11 FL PT GR8	18
6	880313	EYE BOLT, 5/8-11 X 4 1/2 1/4 WELD	3
7	709083	CLEVIS, 1.25" X 6" L	1
8	709084	WASHER, 1.25" ID	1
9	800821	SPACER, 1.25 OD X .75 ID X 3.25 L	2



900447 BRKT ASSY, WTS DB60 FRAME, LH			
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	850285	PIT, WTS DB60 FRAME, FRNT	1
2	850287	WELD, WTS DB60 FRAME, BASE, LH	1
3	785616-2	BOLT, 5/8-11 X 1 3/4 FL GR8	3
4	709076	BOLT, 5/8-11 X 1 3/4 HEX GR8	3
5	785600	NUT, 5/8-11 FL PT GR8	9
6	850312	EYE BOLT, 5/8-11 X 7 15/16 WELD	3
7	709082	CLEVIS, 1.25" X 8" L	1
8	709084	WASHER, 1.25" ID	1



900449 BRKT ASSY, WTS DB60 WING, LH			
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	850289	PLT, WTS DB60 WING, LH	1
2	850291	WELD, WTS DB60 WING, BASE, LH	1
3	784454	BOLT, 5/8-11 X 5 1/2 FL GR8	2
4	784460	BOLT, 5/8-11 X 8 HEX GR8	5
5	785600	NUT, 5/8-11 FL PT GR8	18
6	850313	RYE BOLT, 5/8-11 X 4 15/16 WELD	3
7	709083	CLEVIS, 1.25" X 6" L	1
8	709084	WASHER, 1.25" ID	1
9	800821	SPACER, 1.250D X .75ID X 3.25 L	2



NOTES:

NOTES:



The most trusted name in no-till
Established 1991

Martin Industries LLC
206 Elk Fork Road
Elkton, KY 42220
Telephone: 270-265-5817
E-Mail: martin@martintill.com