

Assembly Instructions for the Ultra-Till

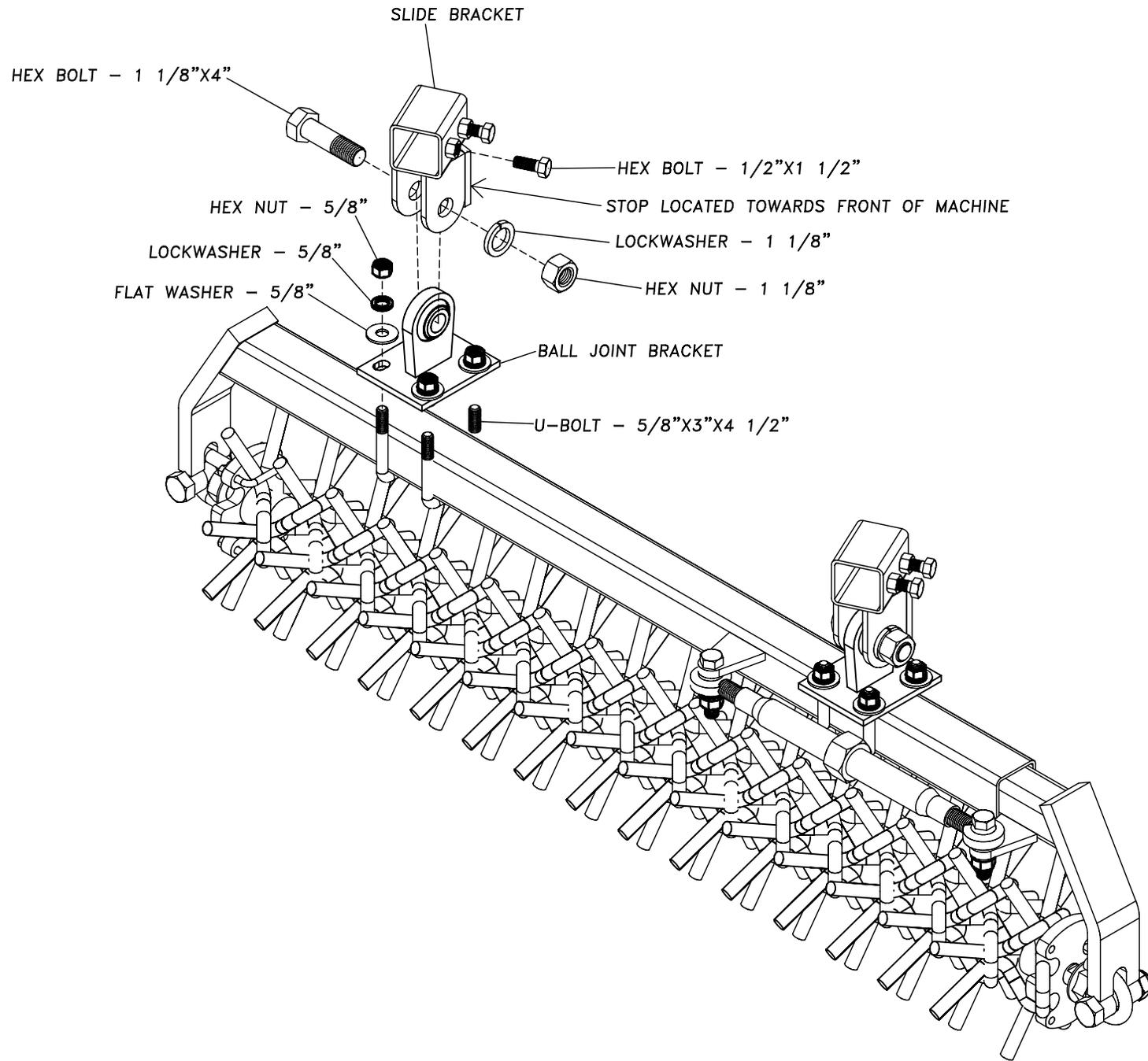
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Thank you for purchasing the Great Plains Ultra-Till. To finish assembly you must first mount the tires to the inside wings. Mount the tires as shown in layout (Inside Wing Wheel Assembly.) The hub assemblies with the smaller titan tires pre-mounted get pinned on the caster wheel assemblies as shown in layout (Caster Wheel Assembly – UT5042, UT5048, UT5052 ONLY.)

Then you must locate the correct coultter/disc gang assembly. The assembly should come to you with a part number written on the gang. Simply match the part number on the gang frame with the number located on the respective assembly layout and assemble as shown on the coultter/disc gang set-up.

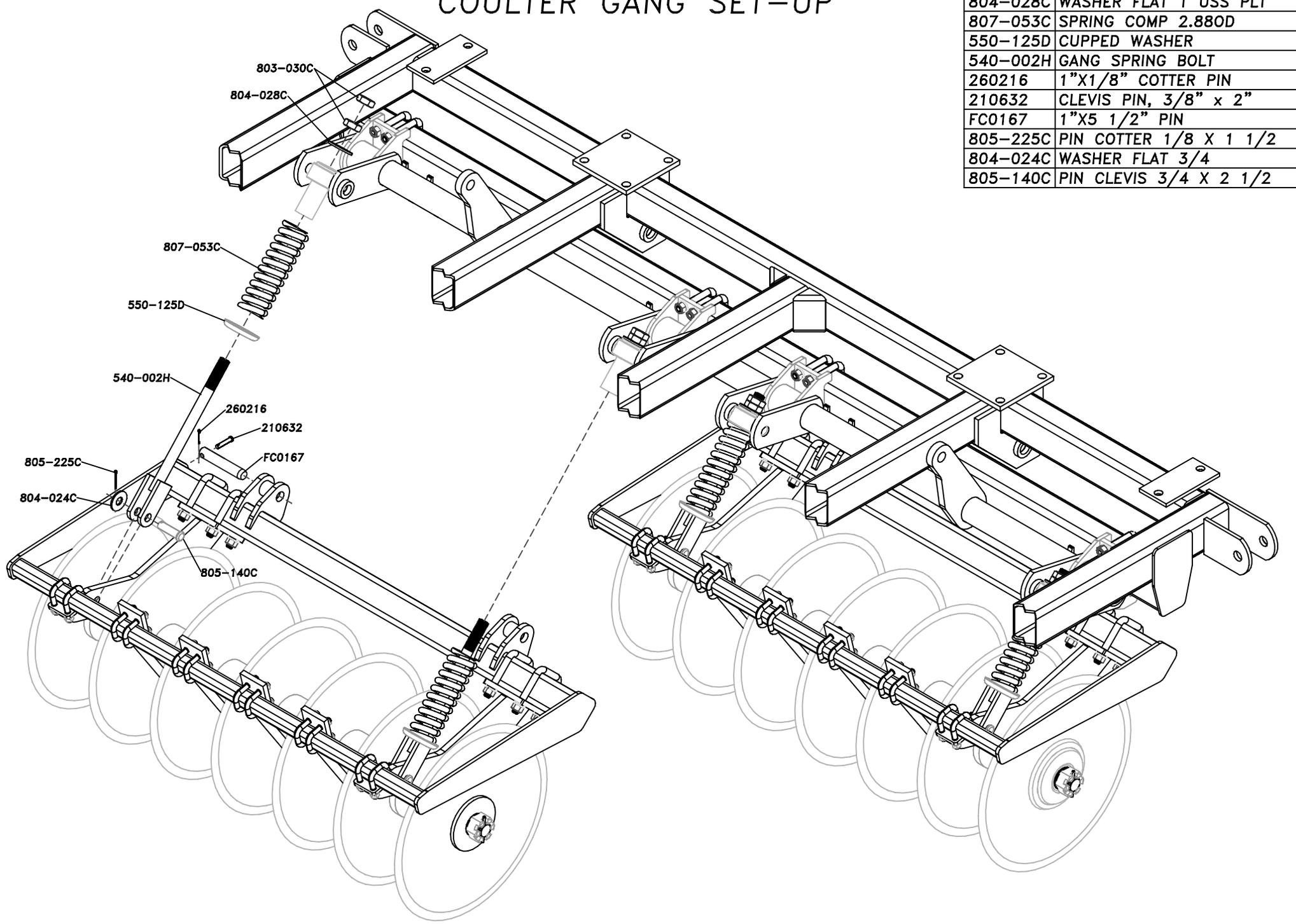
The next step is to start assembling the ball joint brackets on the phoenix module, so they can be hung on the Ultra-Till frame. Assemble ball joint brackets as shown on (Phoenix Module Assembly.) Leave all the nuts loose so the ball joint bracket can slide on phoenix module. On the end of the phoenix module there is a number written in white paint. This will assist you in location of these modules. Simply match the number on the side of the phoenix module to the number given in the respective layout and assemble accordingly. Once phoenix module is hung tighten nuts on ball joint bracket to the x dimension given for each individual module. This will place the phoenix modules in the correct location and alignment. Once this is done, double check the machine with the layouts provided and make sure there is no interference. This should complete the assembly of your Great Plains Ultra-Till.

PHOENIX MODULE ASSEMBLY RIGHT HAND SHOWN – LEFT HAND OPPOSITE

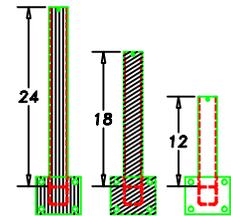
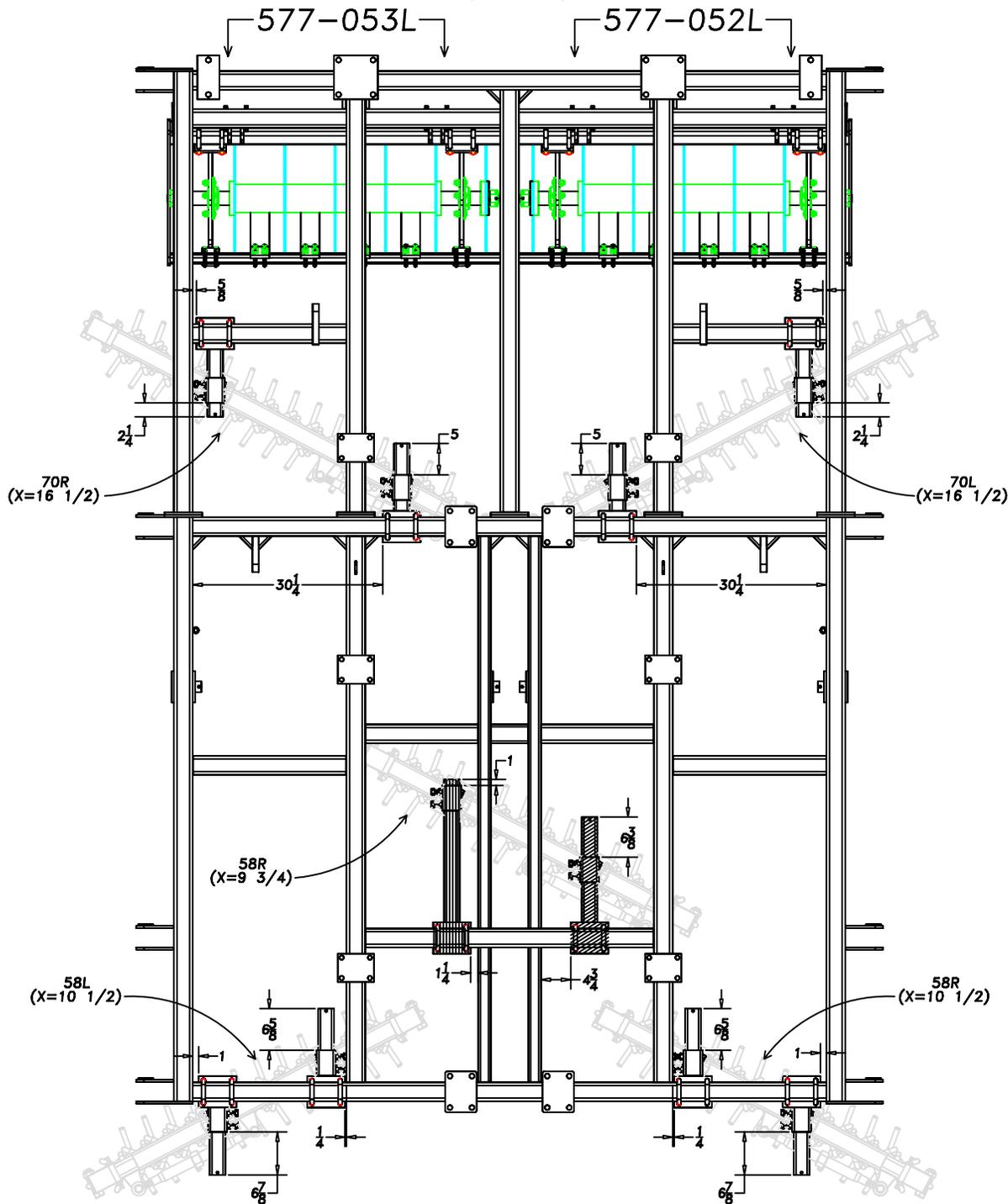


COULTER GANG SET-UP

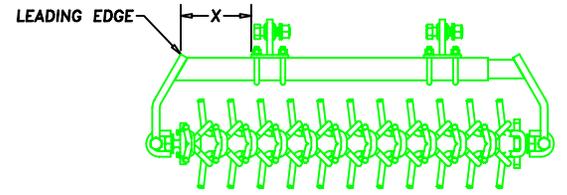
803-030C	NUT HEX JAM 1-8 PLT
804-028C	WASHER FLAT 1 USS PLT
807-053C	SPRING COMP 2.880D
550-125D	CUPPED WASHER
540-002H	GANG SPRING BOLT
260216	1"X1/8" COTTER PIN
210632	CLEVIS PIN, 3/8" x 2"
FC0167	1"X5 1/2" PIN
805-225C	PIN COTTER 1/8 X 1 1/2
804-024C	WASHER FLAT 3/4
805-140C	PIN CLEVIS 3/4 X 2 1/2



CENTER (COULTER)
UT3030,5036,5042

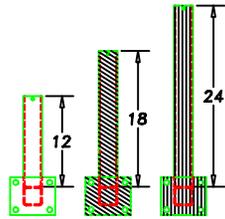


SIZES OF PHOENIX L-BRACKETS

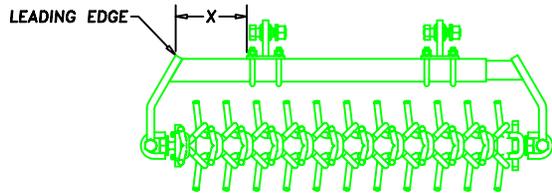


NOTES:
X DIMENSION - ALWAYS FROM LEADING EDGE

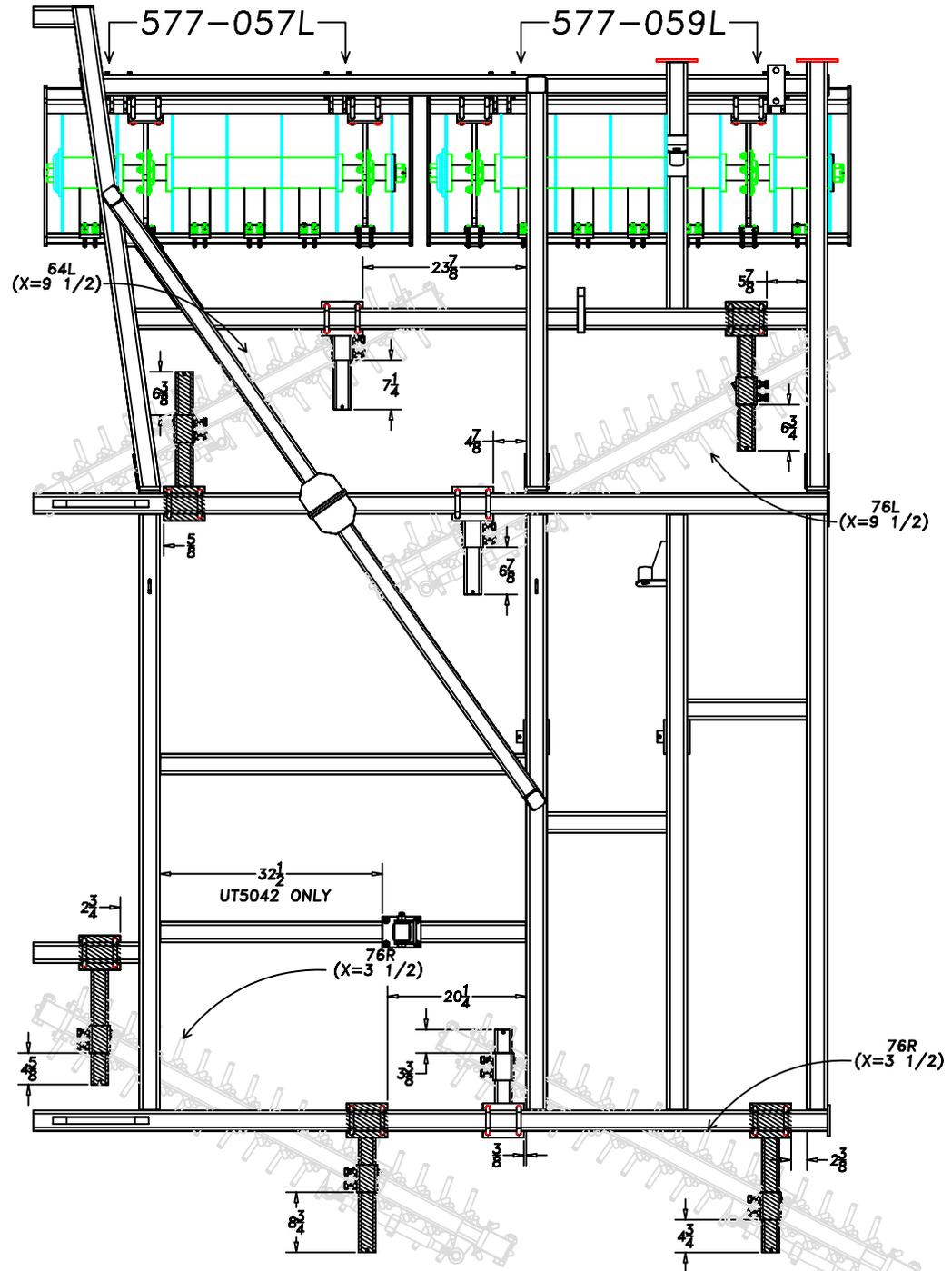
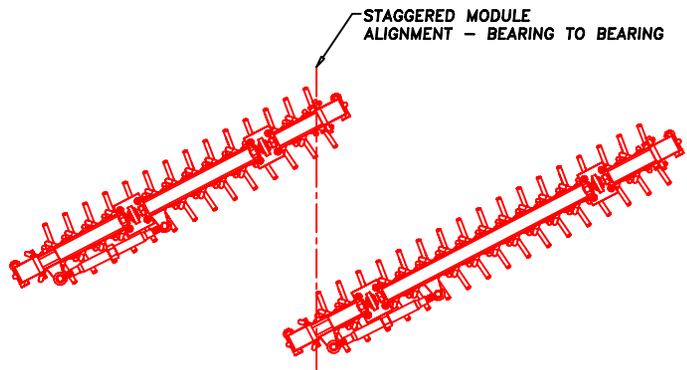
RIGHT INSIDE WING (COULTER) UT3030,5042



SIZES OF PHOENIX L-BRACKETS



NOTES:
X DIMENSION - ALWAYS FROM LEADING EDGE



UT3030 Ultra Till Hydraulic Down Pressure Preparation and Setup

Note: This setup procedure is for tractors with closed-center or pressure compensated flow hydraulic systems. For open-center hydraulic systems contact your dealer for instructions.

1. Adjust the bypass/pressure reducing valve by turning knob (1), Figure 1, clockwise all the way in and then backing out 1 full turn.
2. On tractor, adjust flow-control valve to low side of flow rate. **NOTE:** The faster the flow of oil through the system the greater potential for oil heating, premature wear or tractor damage.
3. Lock the fold hydraulic lever for continuous downward oil flow.
4. Adjust bypass/pressure reducing valve knob (2) on implement so the pressure gauge reads 1200 psi. Never exceed 1400 psi.
5. While watching pressure gauge, slowly open valve knob (1) until gauge reads 1100 psi.

Pressure might rise and then fall off as knob is opened. If pressure exceeds 1400 psi during this step, the tractor flow is too high, reduce tractor flow. Lock valve knob (1) at 1100 psi.

6. Finally adjust valve (2) to the desired wing down pressure setting of 400 to 700 psi. Never exceed 900 psi.
7. **In field operation, Lock the fold hydraulic lever for continuous downward oil flow. If wings are running too high, increase pressure setting, knob (2), to level machine. If center is too high, decrease pressure setting with knob (2) on valve.**

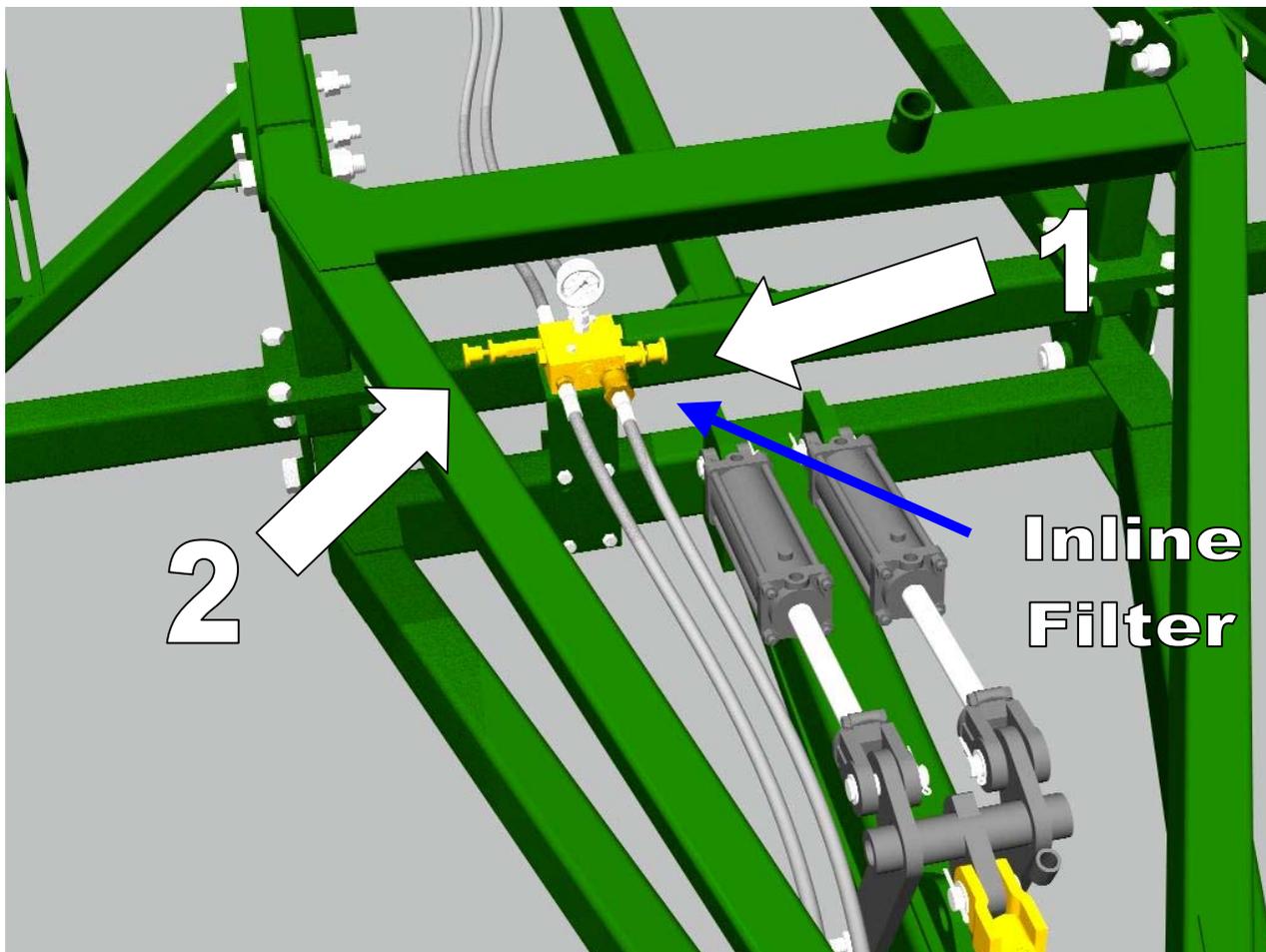


Figure 1