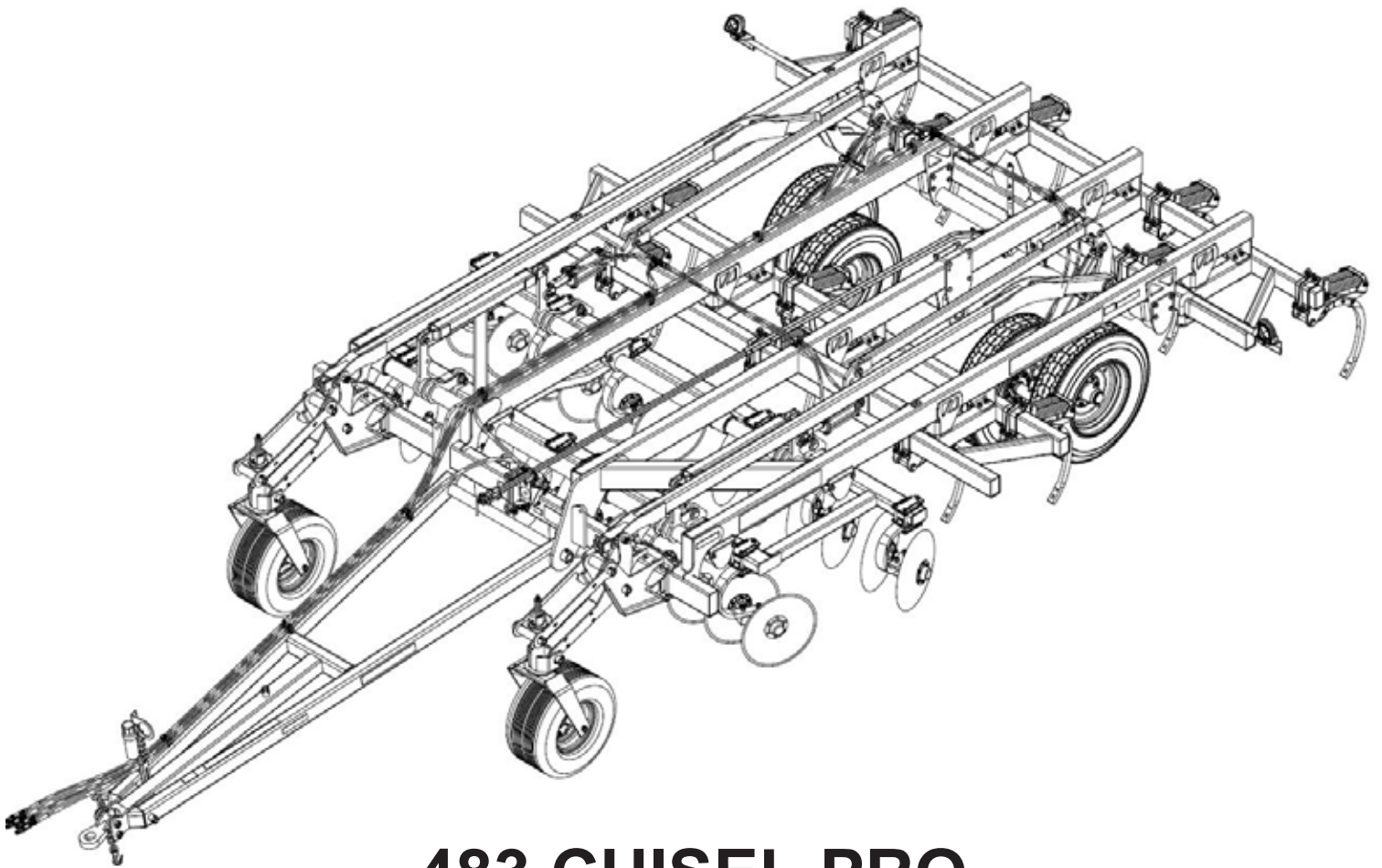




WIL-RICH®

ASSEMBLY MANUAL



483 CHISEL PRO RIGID (16' & 19')

RIGID (16' & 19') 483 CHISEL PRO

1. Assembly

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General Information

Orientation:

Any reference to left (L) or right (R) sides or components is to be understood as being viewed from behind the implement and looking forward.

Serial Number Break:

Every Implement has a serial number located on the body of the frame. These serial numbers are consecutively assigned to the implements as they are manufactured. To aid in part ordering, we reference the serial number at the point the change occurred to provide an accurate means of determining proper parts.

Consumables:

P357194 – CHASIS GREY
SPRAY CAN

P351481 – RED PAINT
SPRAY CAN

P240799 – 460EP
GREASE

Introduction - Rigid (16' & 19') 483 Chisel Pro Assembly Instructions

These instructions apply to the following models.

Model	Serial number
Rigid (16' & 19') 483 Chisel Pro	All

Your model number may not be listed if these instructions were published before your machine was manufactured.

Shipping damage and missing parts

Inspect the machine and parts carefully for possible damage that occurred during shipping. Contact the shipping company immediately if damage is found..

Illustrations

The illustrations used will not always be identical to your specific model or configuration. However, the procedure shown is the same unless otherwise noted.

Direction references

Right and left, as used in these installation instructions, are determined by facing the direction the machine will travel when in use.

Bolt torques

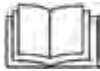
Always replace hardware with the same grade or class. Tighten all hardware according to torque values listed in the machine service manual unless otherwise specified in these instructions.

BOLT SIZE	WRENCH SIZE	GRADE 5		GRADE 8	
		lb-ft	N•m	lb-ft	N•m
1/4 in.	7/16 in. or 3/8 in.	7	9.5	12	17
5/16 in.	1/2 in.	15	20	25	34
3/8 in.	9/16 in.	30	41	45	61
7/16 in.	5/8 in. or 11/16 in.	45	61	70	95
1/2 in.	3/4 in.	70	95	105	142
9/16 in. wheel bolts	7/8 in.	170	231	-	-
5/8 in.	15/16 in.	170	231	210	285
5/8 in. wheel nuts	1-1/16 in.	240	325	-	-
3/4 in.	1-1/16 in.* or 1-1/8 in.*	250	339	375	509
7/8 in.	1-5/16 in.	350	475	600	814
1 in.	1-1/2 in.	450	610	880	1193
1-1/4 in.	1-7/8 in.	500	678	-	-
1-1/2 in.	2-3/4 in.	570	773	-	-
2 in.	3-1/8 in.	1200	1627	-	-

Important safety information



This is the safety alert symbol. It means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! It will direct your attention to information that concerns your safety.



Read and understand all safety information in the machine operator's manual before continuing with these instructions.

Most personal injuries are the result of failure to observe basic safety rules and precautions. In most cases, an injury can be avoided by recognizing hazardous situations before an injury occurs and taking appropriate action to remove or avoid the hazard.

The person installing this kit must have the necessary training, skills, and tools.



WARNING:

To avoid personal injury and/or machine damage, do the following before starting to install this kit:

- Use personal safety equipment appropriate to the task such as:
 - Protective eye wear
 - Gloves
 - Steel-toed shoes
 - Hearing protection
- Park the machine on a solid level surface.
- Disengage the power take-off (PTO), if equipped.
- Put the transmission in the parking position and apply the park brake.
- Turn off the control console.
- Stop the engine and take the key with you.
- Look and Listen! Make sure all moving parts have stopped.
- Put blocks in front of and behind the machine wheels before working on or under the machine.
- Remove or relieve all sources of stored energy such as:
 - Disconnect the battery
 - Relieve hydraulic or fuel pressure
 - Relieve air pressure
 - Relieve or block mechanical spring pressure
 - Properly block or lock pivoting joints
- Clean oil, dirt, and crop material from the area on the machine where the work is to be done.

Prepare for assembly

**WARNING:**

Components can be heavy. Severe injury can result from improper lifting technique. Use appropriate lifting equipment for heavy components.

Read this section carefully before assembly. Refer to the Parts Catalog for additional component illustrations while assembling the machine.

Part numbers are shown on labels on the parts.

Hardware numbers are shown on labels on the hardware or on the container the hardware is in.

Carefully remove all the parts and hardware included. Make sure nothing was damaged or missing.

Tighten all hardware according to standard torque values unless specified in these instructions. See the torque charts in this publication for more information.

Always replace hardware with the same grade or class.

Use all the nuts and bolts in the correct locations. This will prevent damage to the machine.

IMPORTANT: *When two or more bolts are being used on a part, always insert the bolts and loosely tighten the nuts. Once the correct location has been reached, tighten the nuts evenly to prevent misalignment or distortion of the parts. Tighten all U-bolt nuts evenly and to the same torque to prevent misalignment or distortion.*

Select a large, flat, and hard surface for assembly of machine.

IMPORTANT: *Keep all parts in the assigned containers until the parts are to be used.*

NOTE: *Some items will be assembled at the factory.*

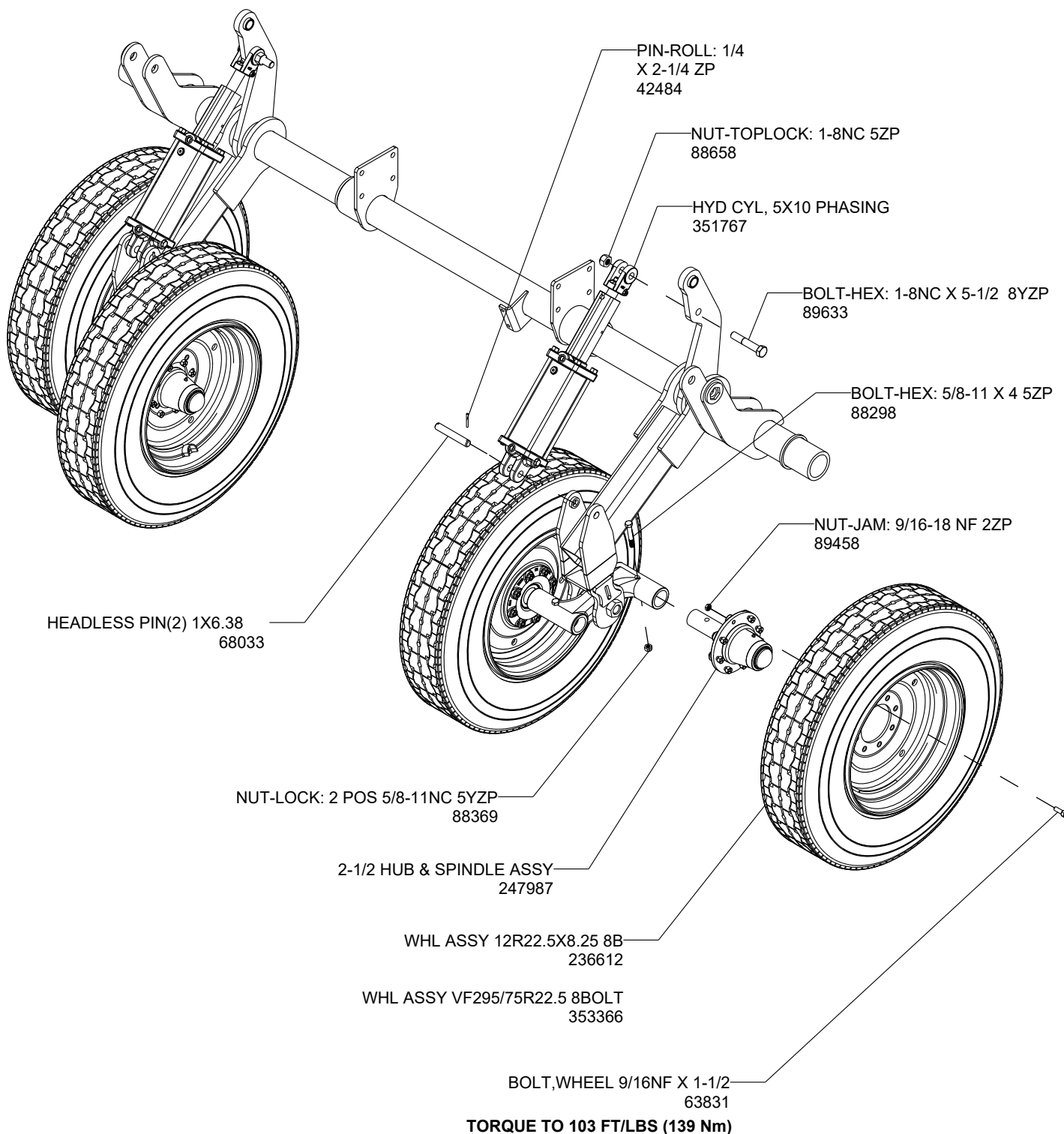
Right-hand and left-hand, as used in this manual, are determined by facing the direction the machine will travel when in use.

Service parts

The illustrations and part numbers in this publication are supplied for component identification only when assembling the machine. When ordering replacement parts, always use the part numbers from the parts catalog.

For a complete list of available service parts, go to www.wil-rich.com or contact your dealer.

MAIN AXLE ASSEMBLY

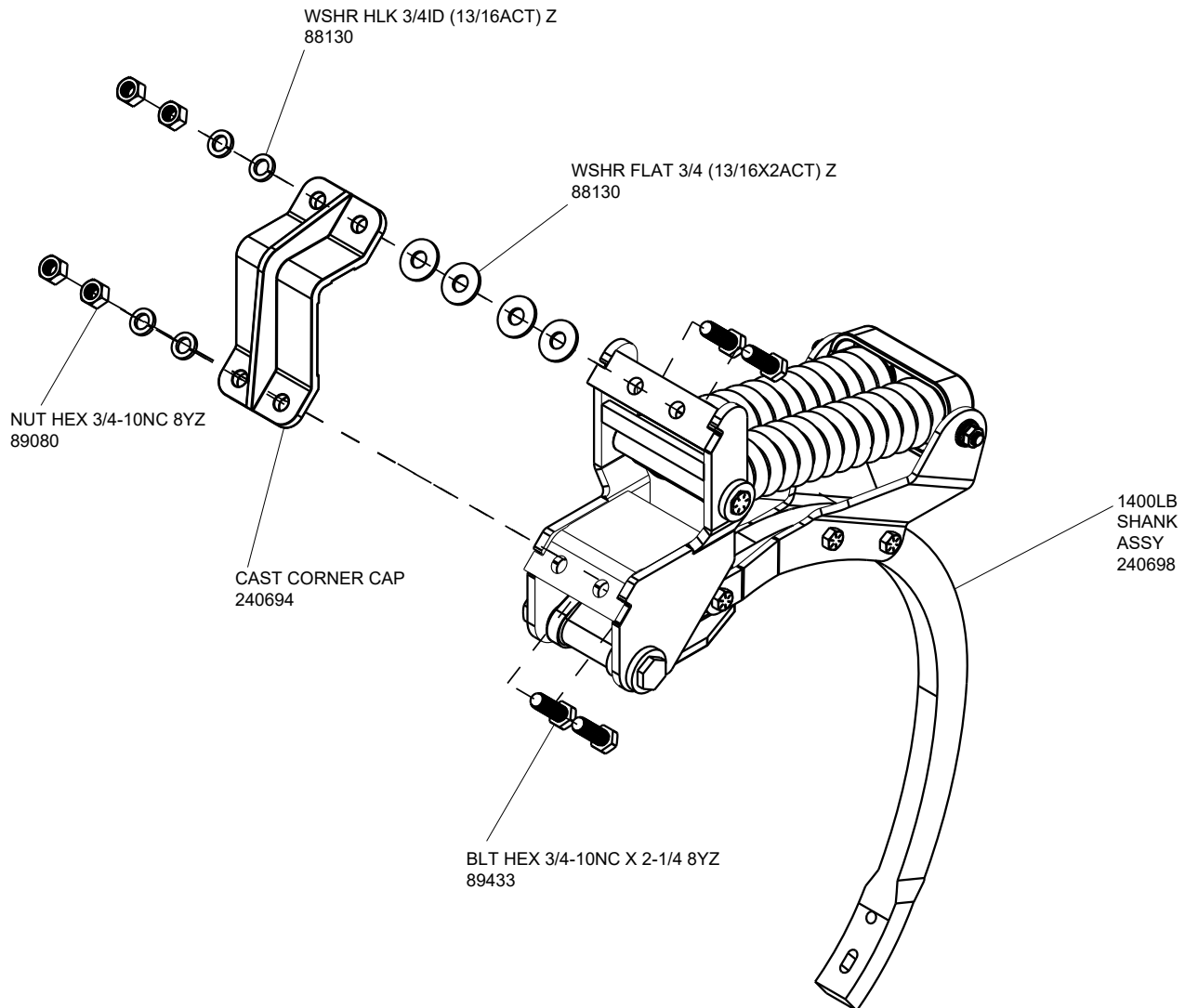


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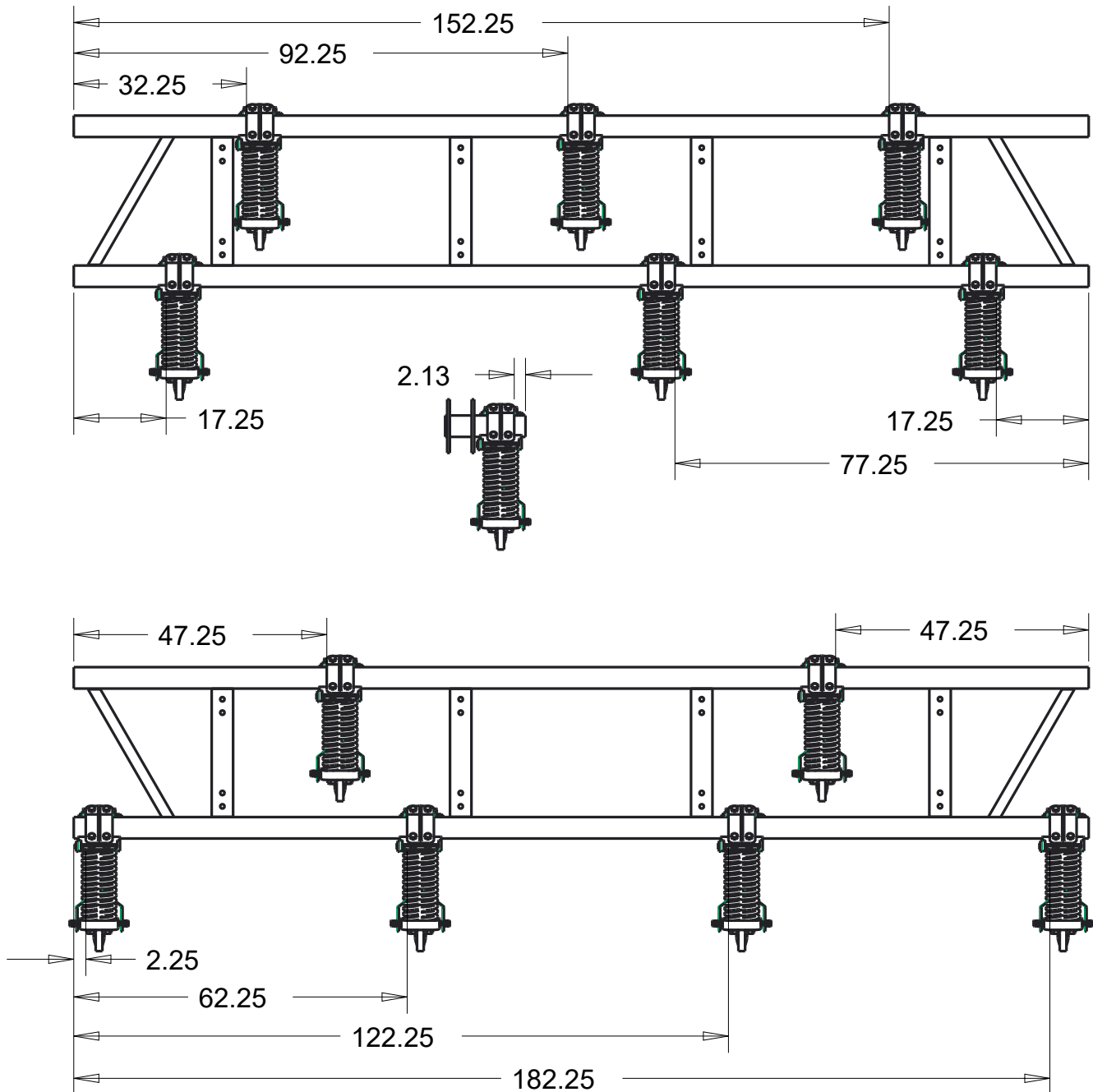
1000# SHANK ASSEMBLY

TIGHTEN THE 3/4" HEX BOLTS TO PREVENT SHANK MOVEMENT FOLLOWING THE STEPS BELOW.

1. Snug up top nuts tight to the cast clamp.
2. Tighten bottom nuts to torque of 340 ft/lbs.
3. Return to top to tighten down nuts to a torque of 340 ft/lbs.

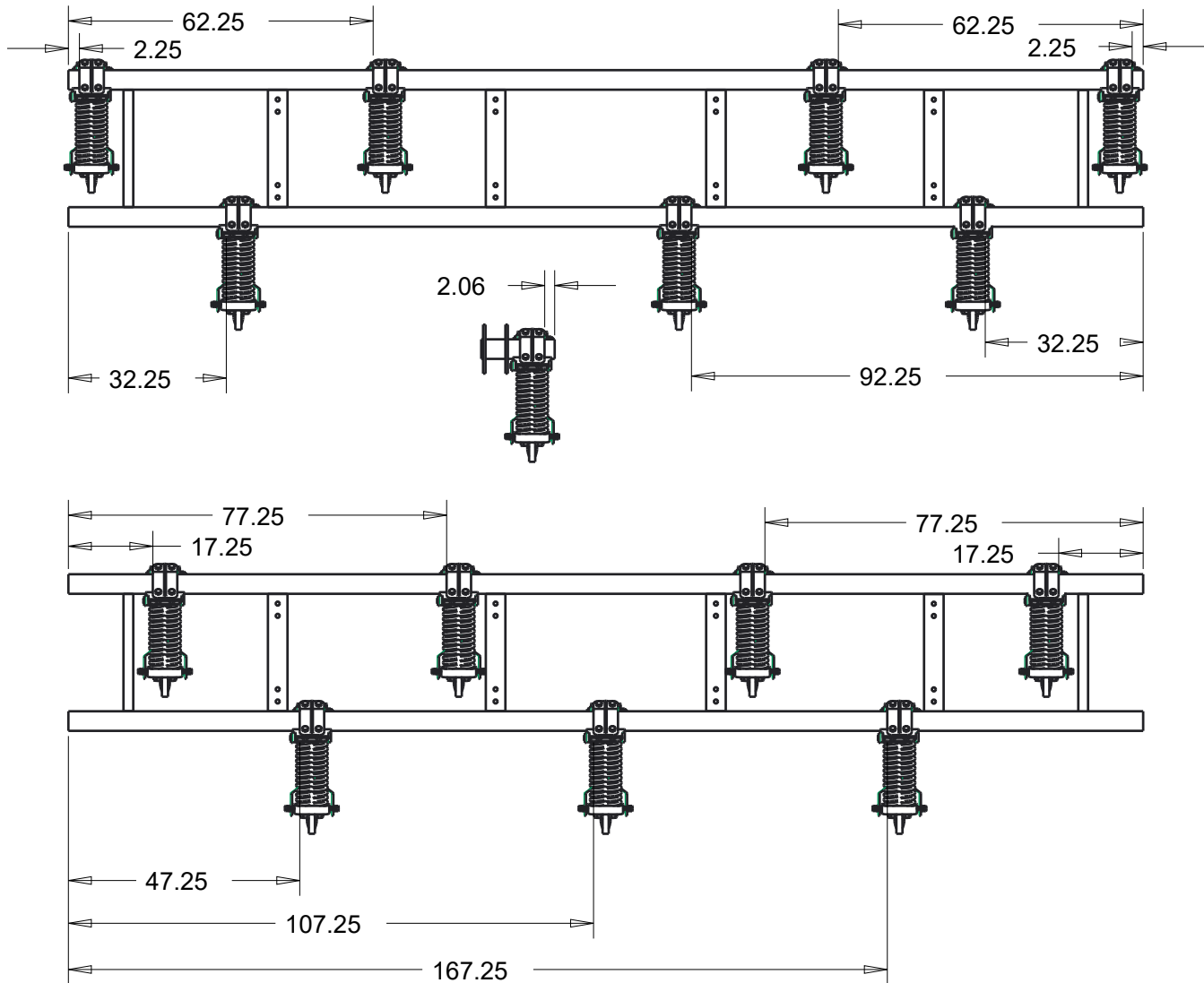


16' SHANK FRAME LAYOUTS



ALL MEASUREMENTS ARE TAKEN FROM THE
SIDE OF THE CLAMP CASTING OF THE SHANK

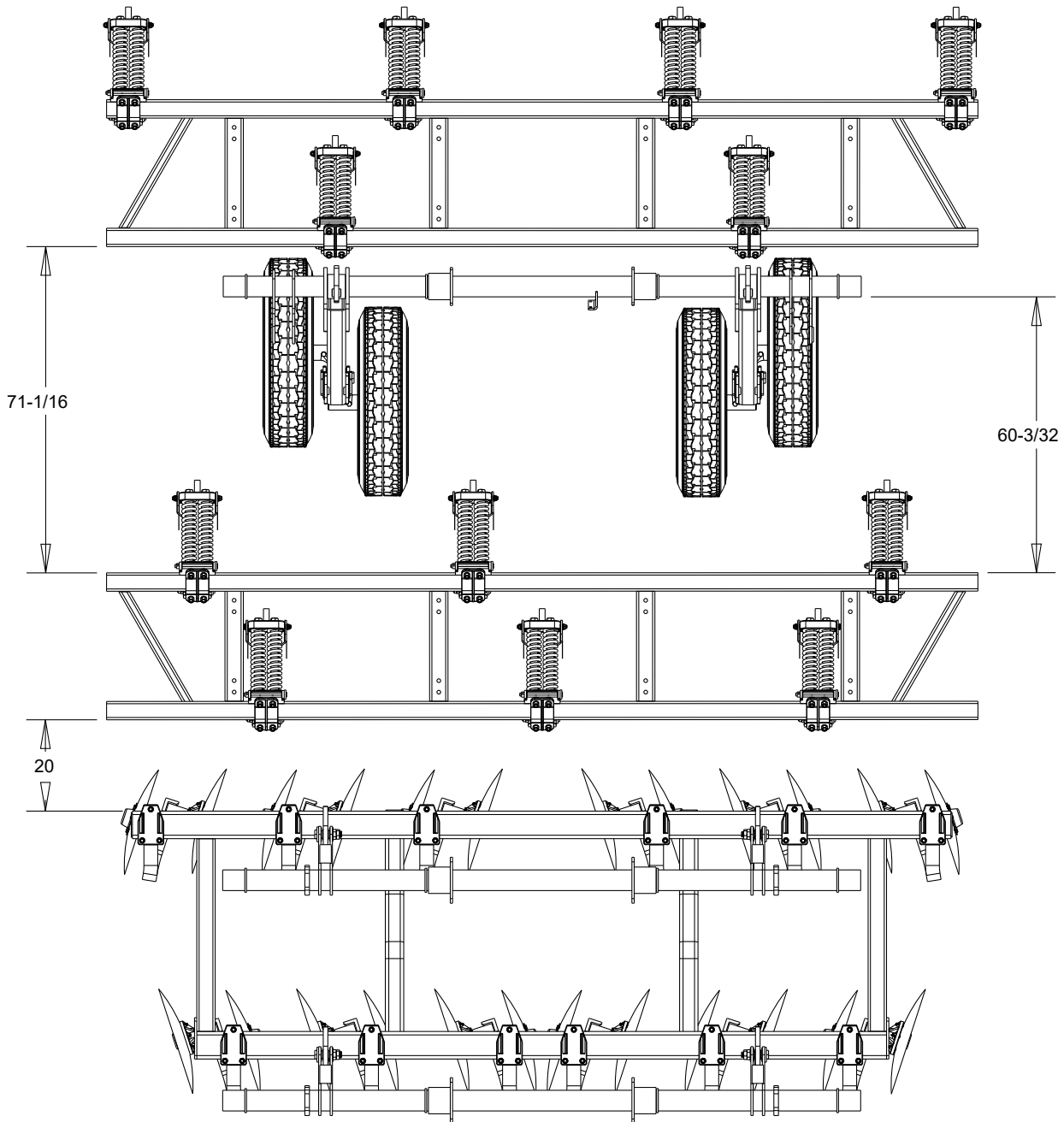
19' SHANK FRAME LAYOUTS



ALL MEASUREMENTS ARE TAKEN FROM THE
SIDE OF THE CLAMP CASTING OF THE SHANK

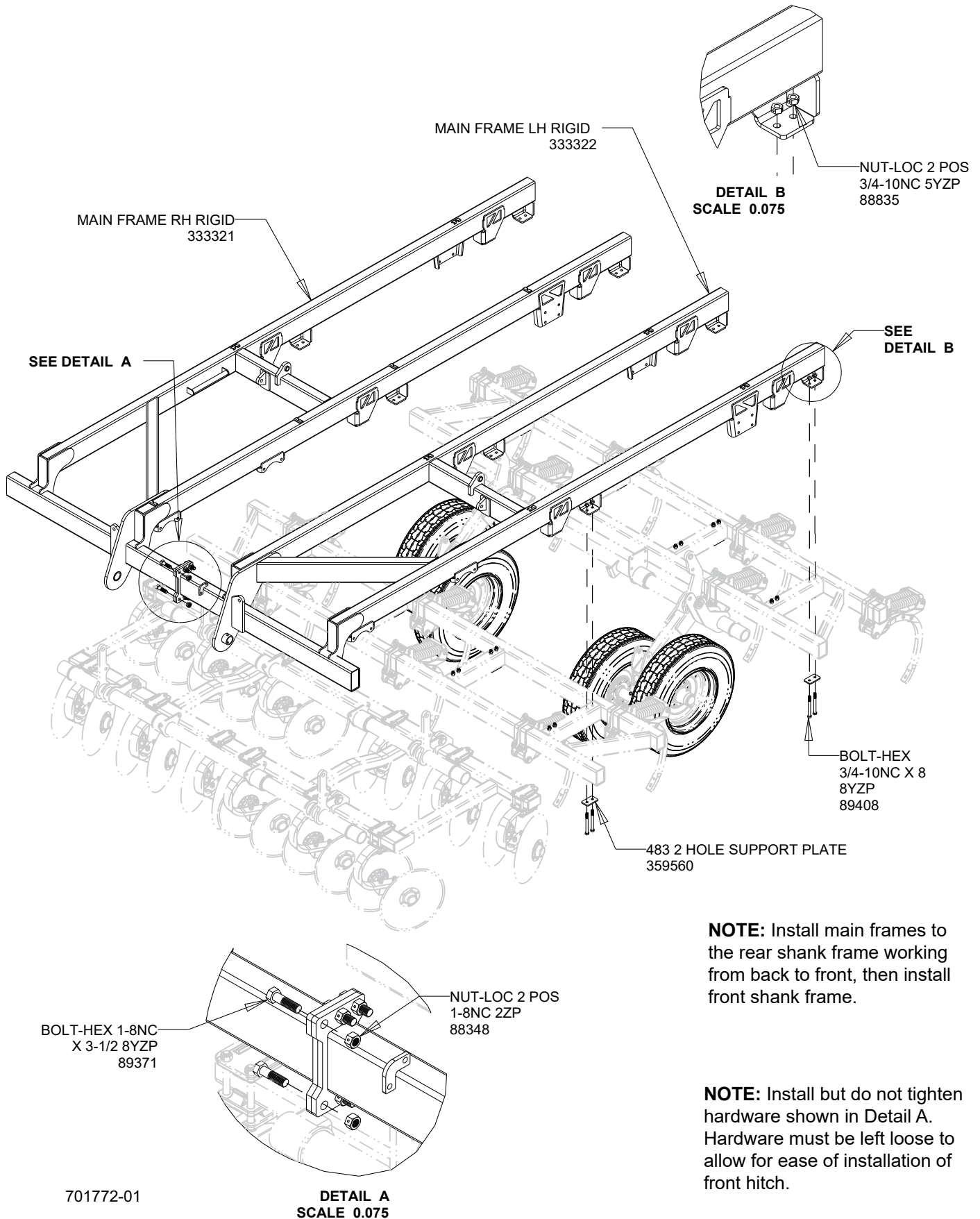
GANG AND AXLE SPACING

NOTE: Place disc frame, main axle and shank frames as shown.



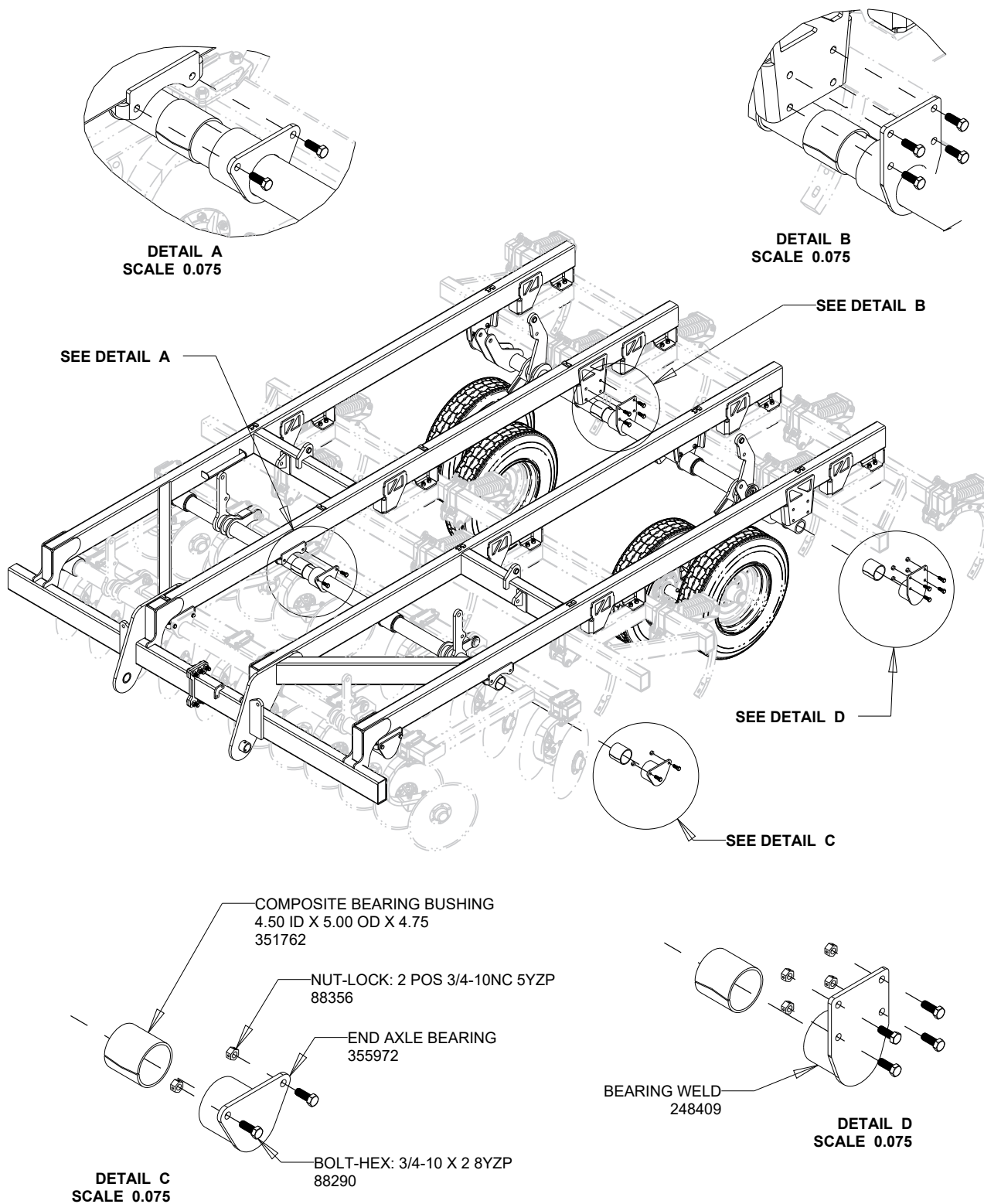
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MAIN FRAME ASSEMBLY TO SHANK FRAMES



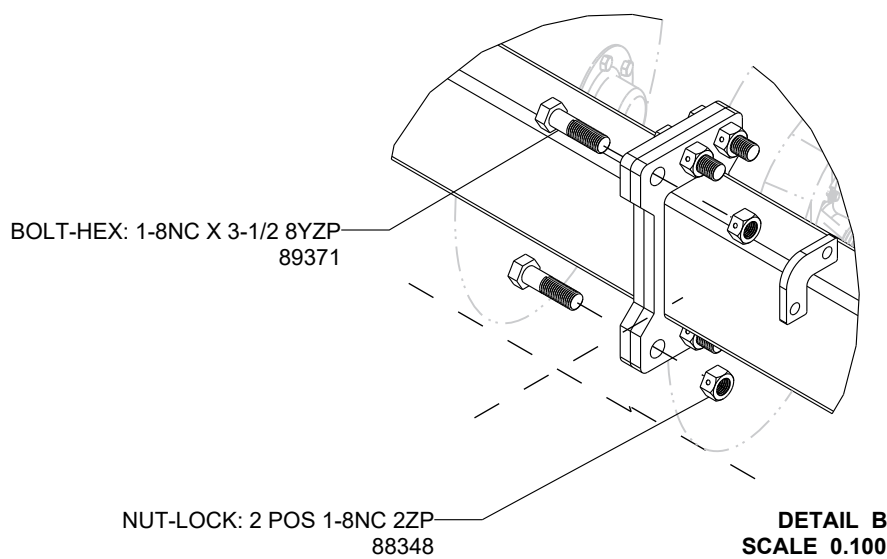
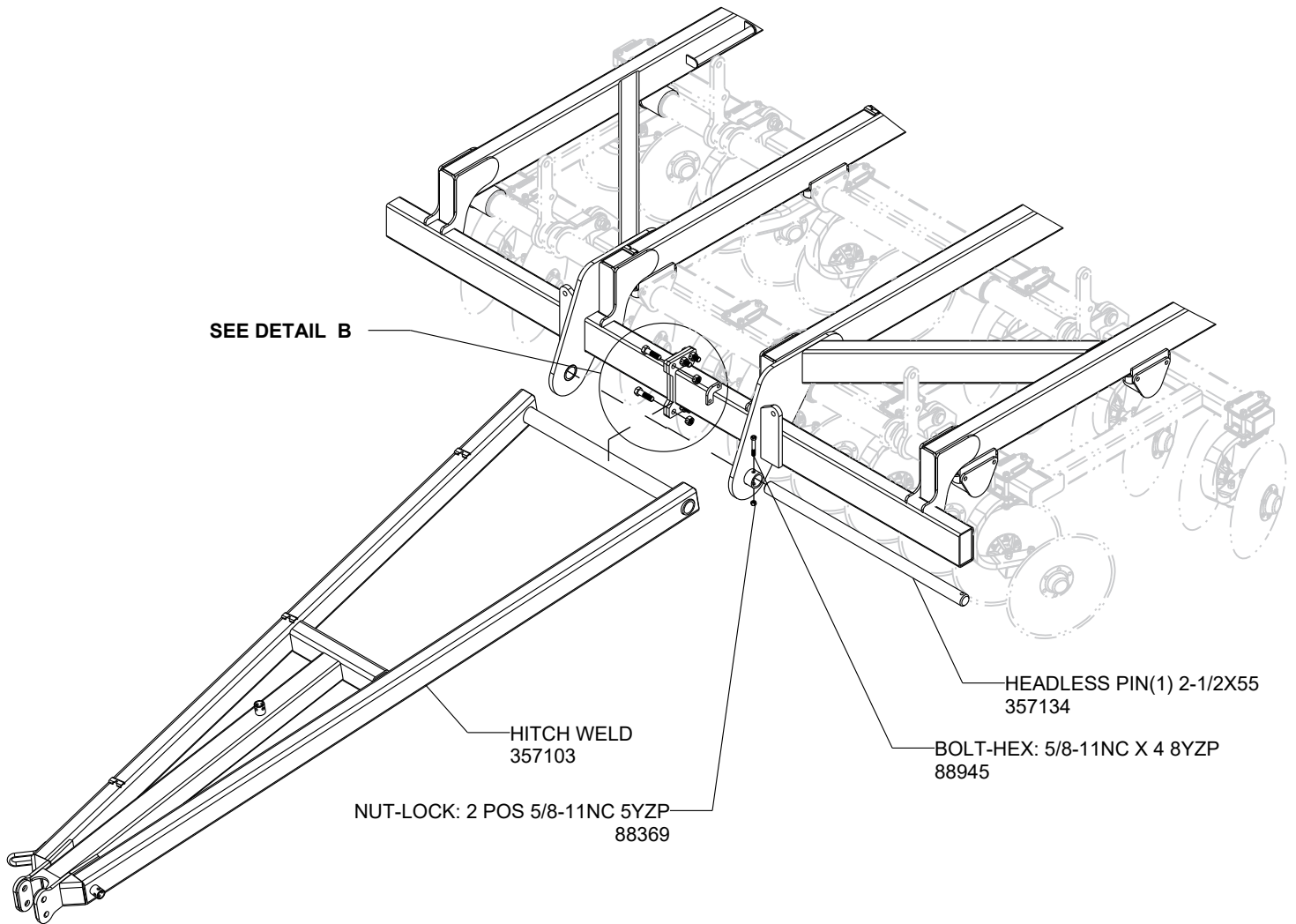
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MAIN FRAME ASSEMBLY TO AXLE AND DISC FRAME



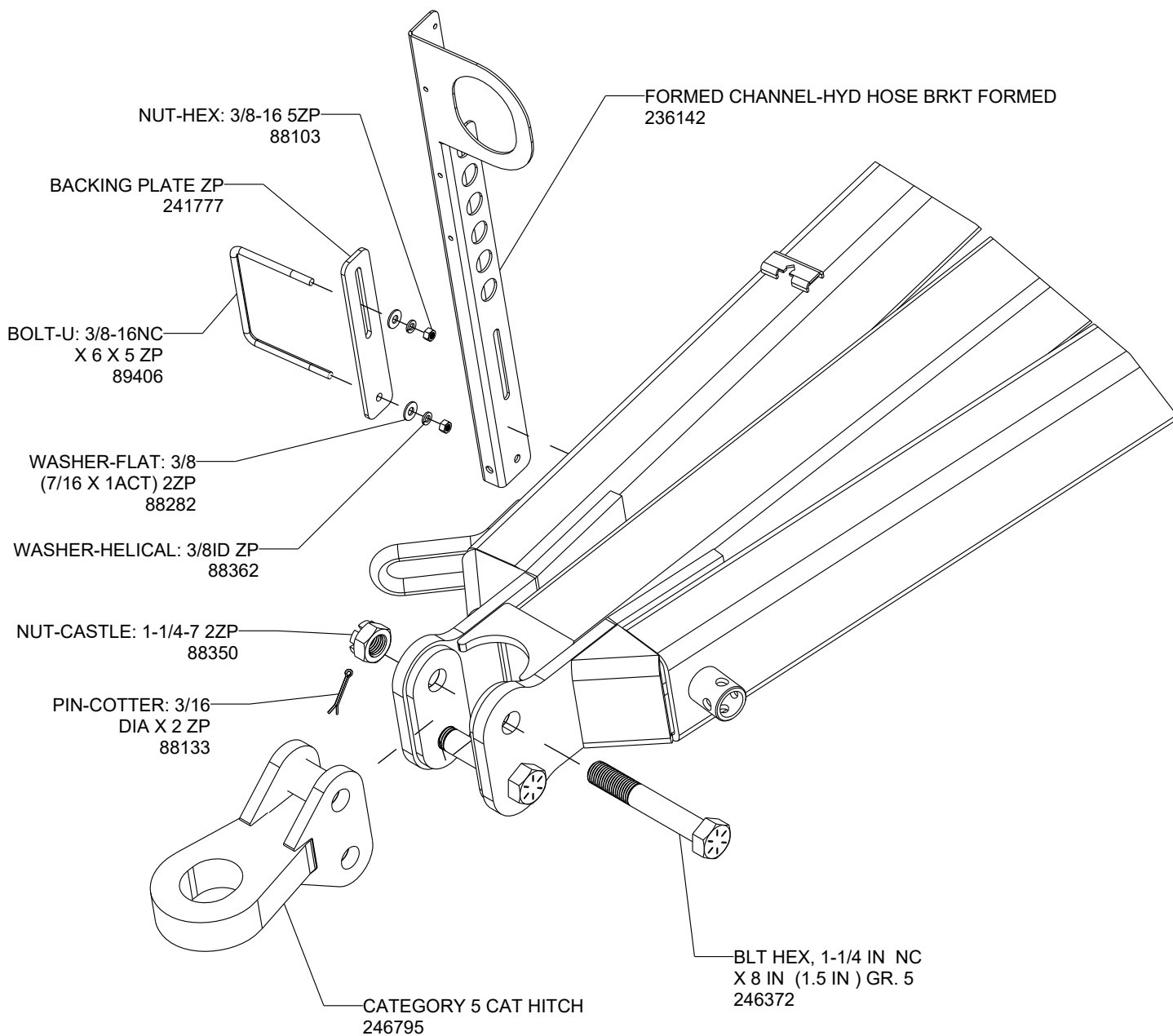
701773-01

HITCH ASSEMBLY



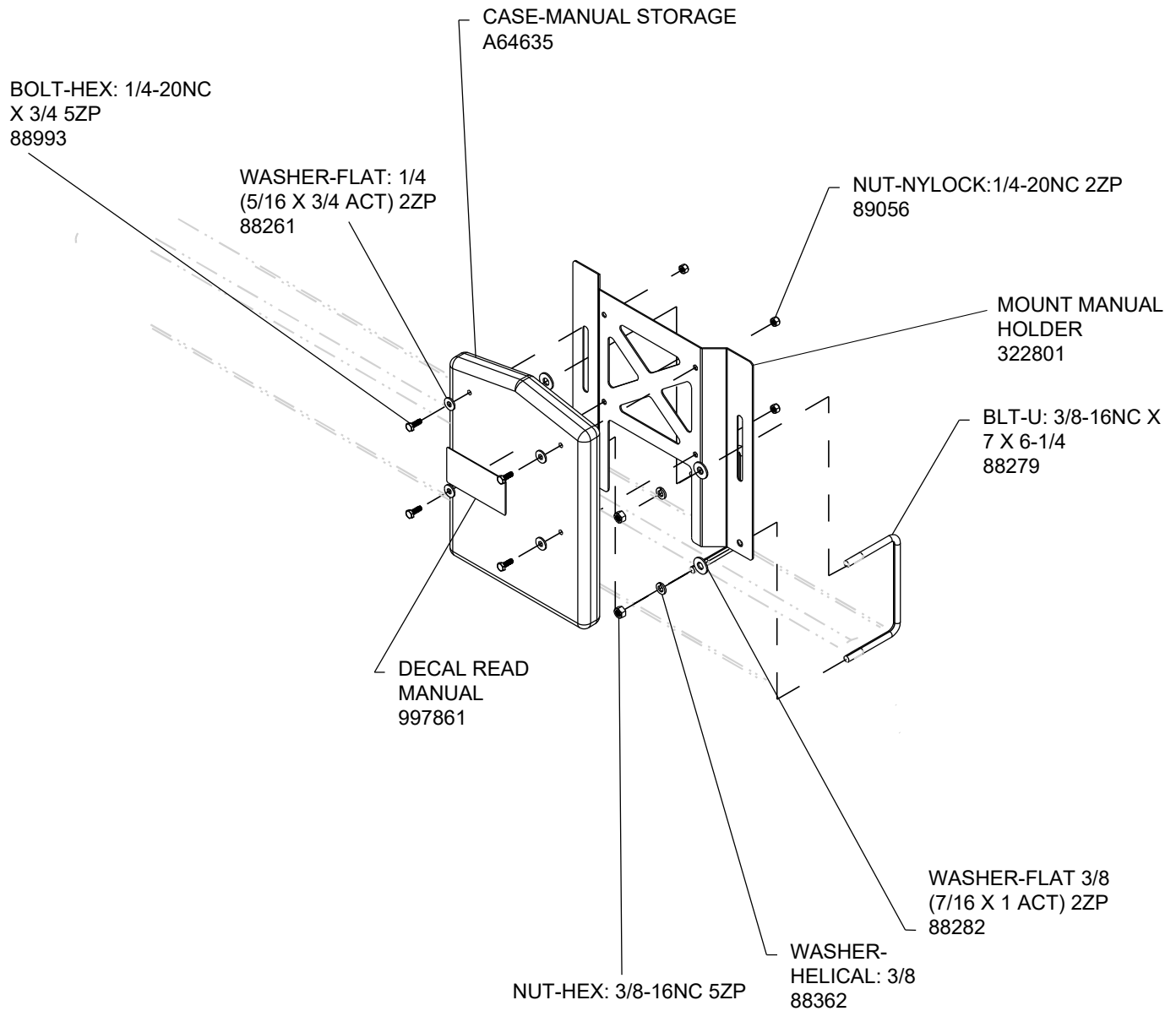
NOTE: Once hitch is installed tighten hardware shown in Detail B.

HITCH ASSEMBLY CONT'D



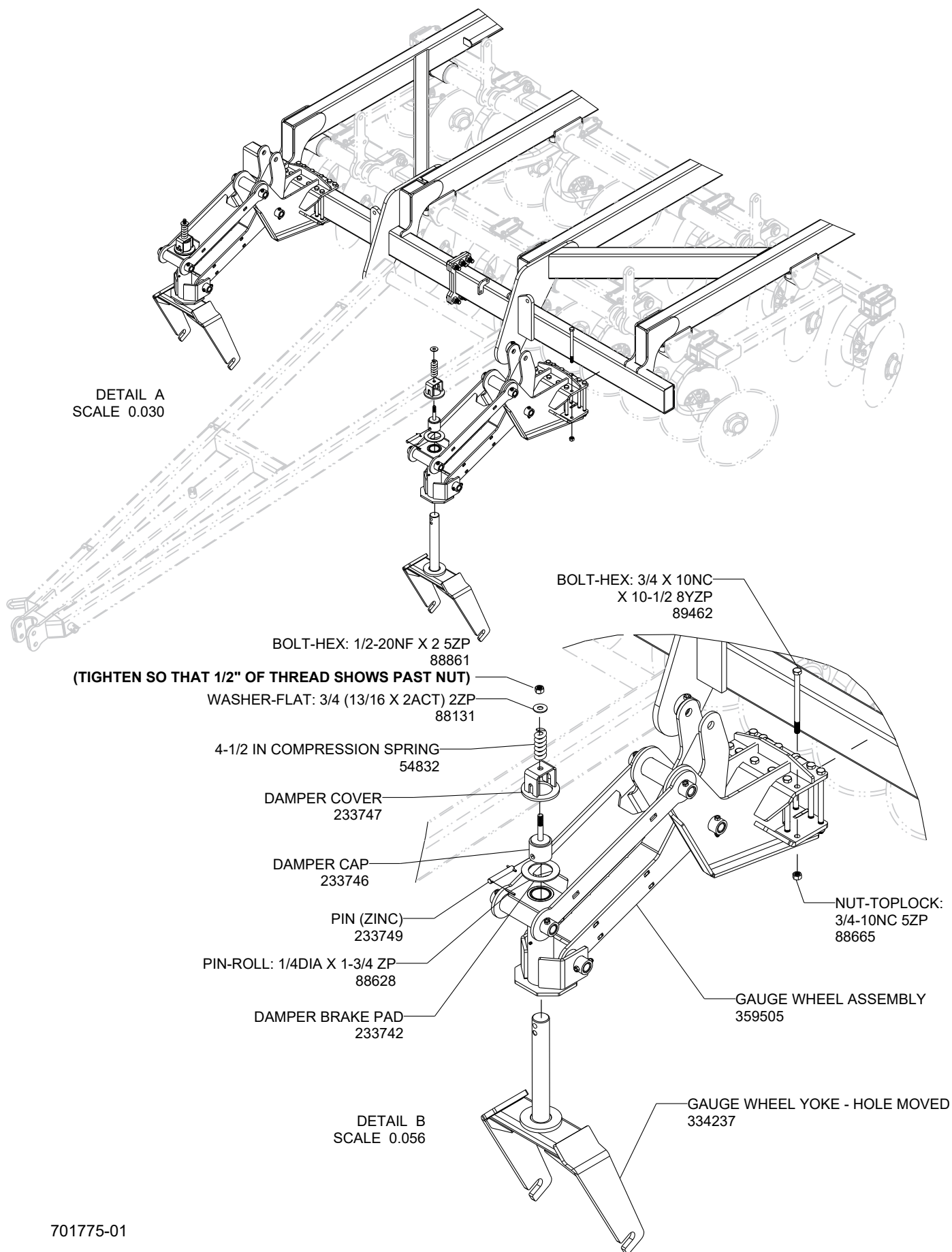
701779-01

MANUAL HOLDER ASSEMBLY



NOTE: 1/4" Hardware is installed to the mount from the inside the manual holder.

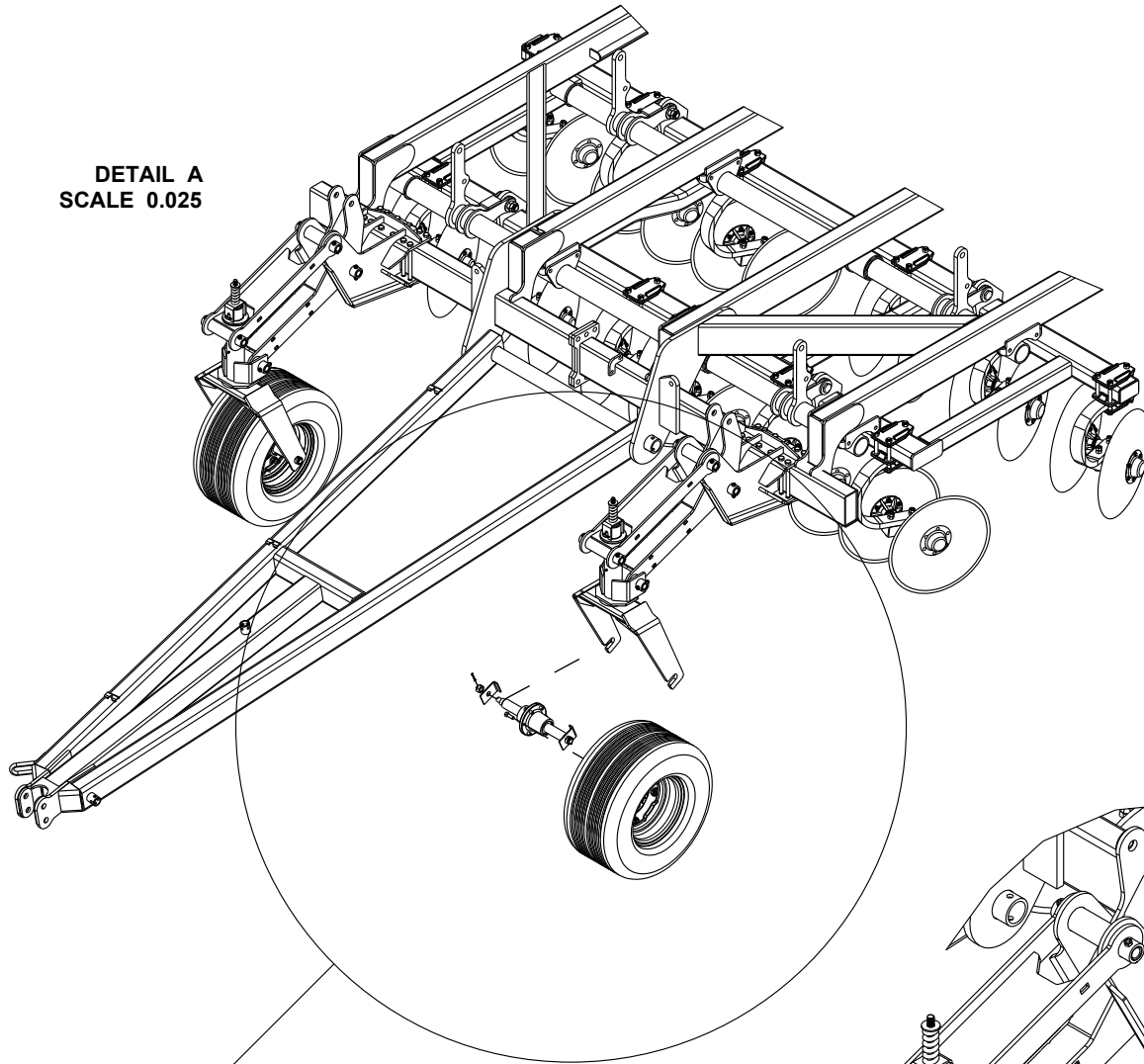
GAUGE WHEEL ASSEMBLY



701775-01

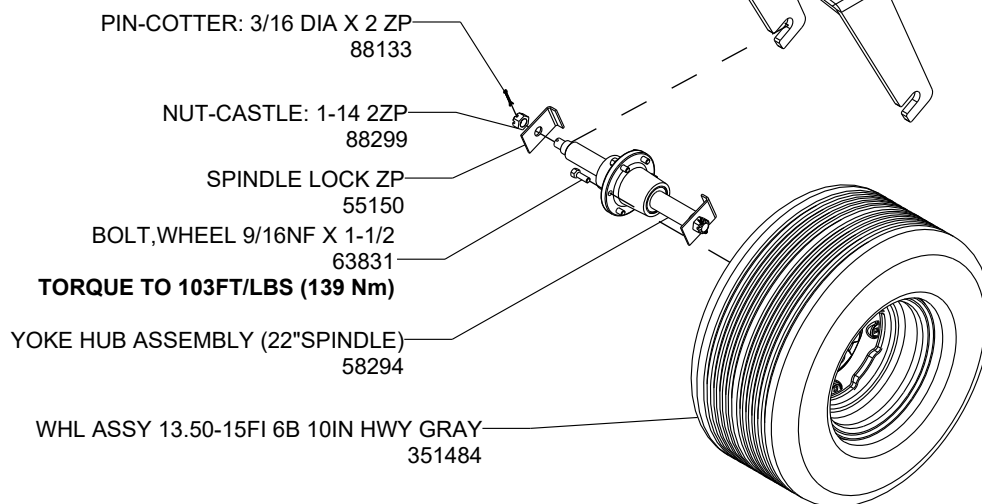
GAUGE WHEEL SPINDLE & TIRE ASSEMBLY

DETAIL A
SCALE 0.025

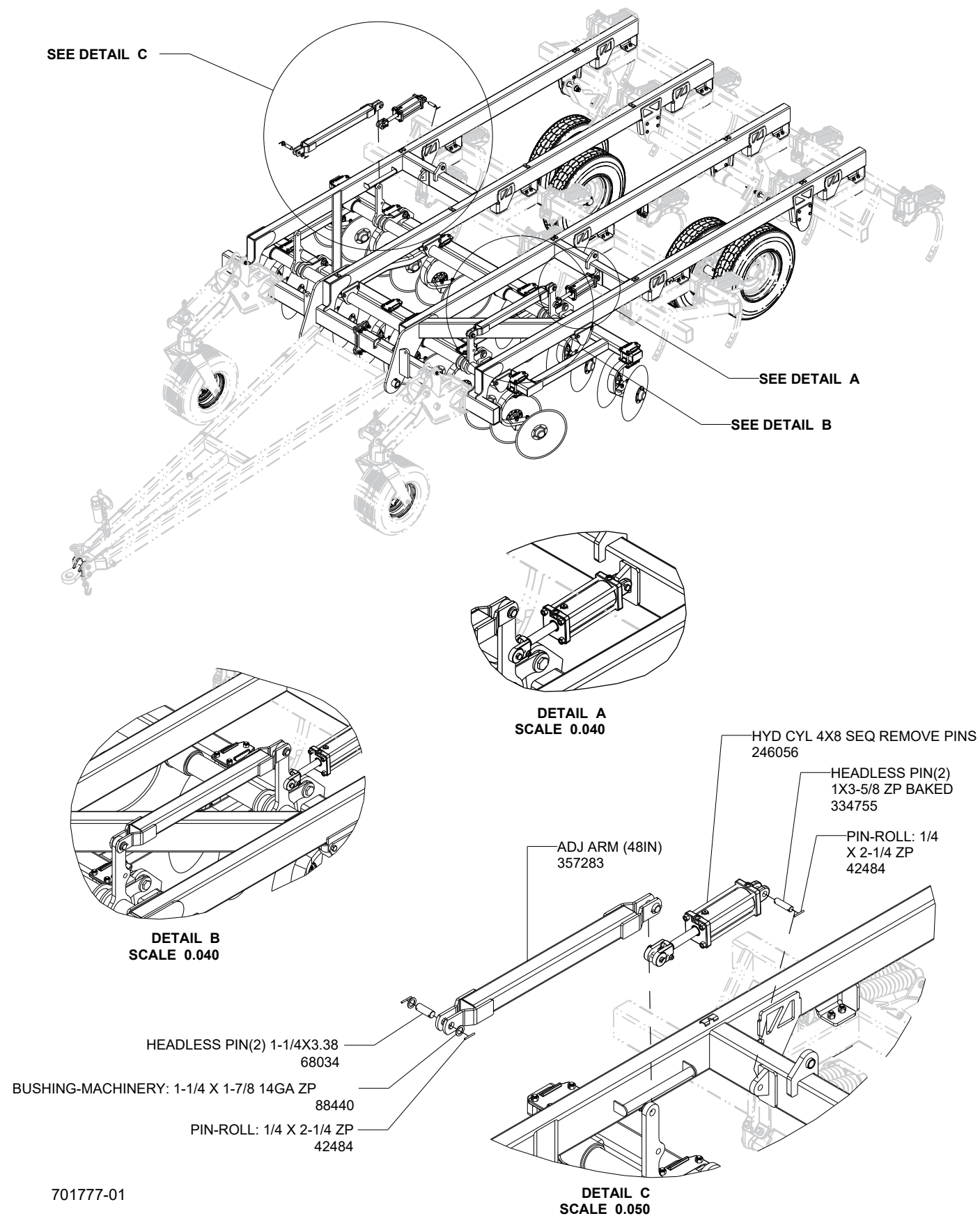


SEE DETAIL B

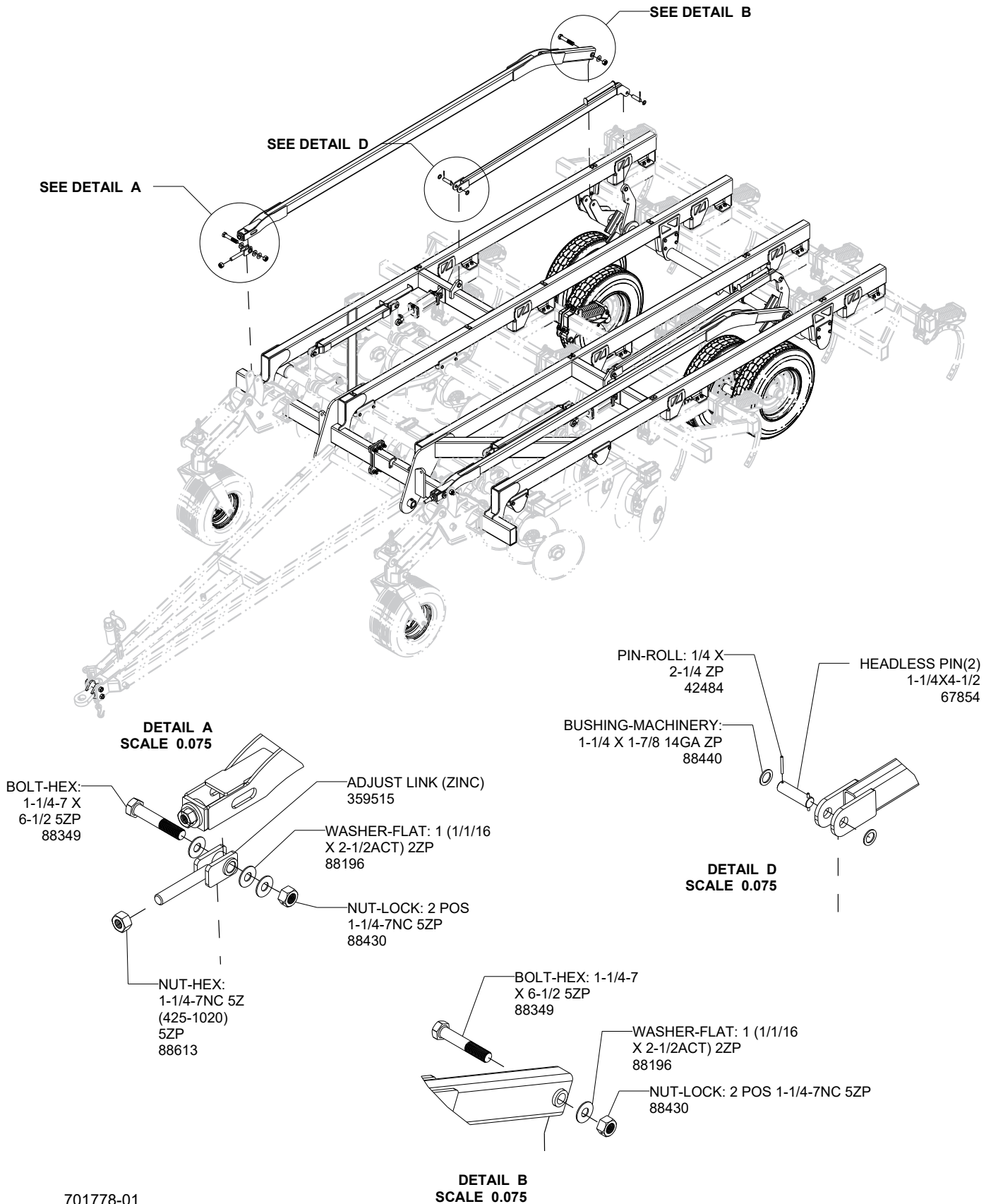
DETAIL B
SCALE 0.050



DISC LIFT ASSEMBLY

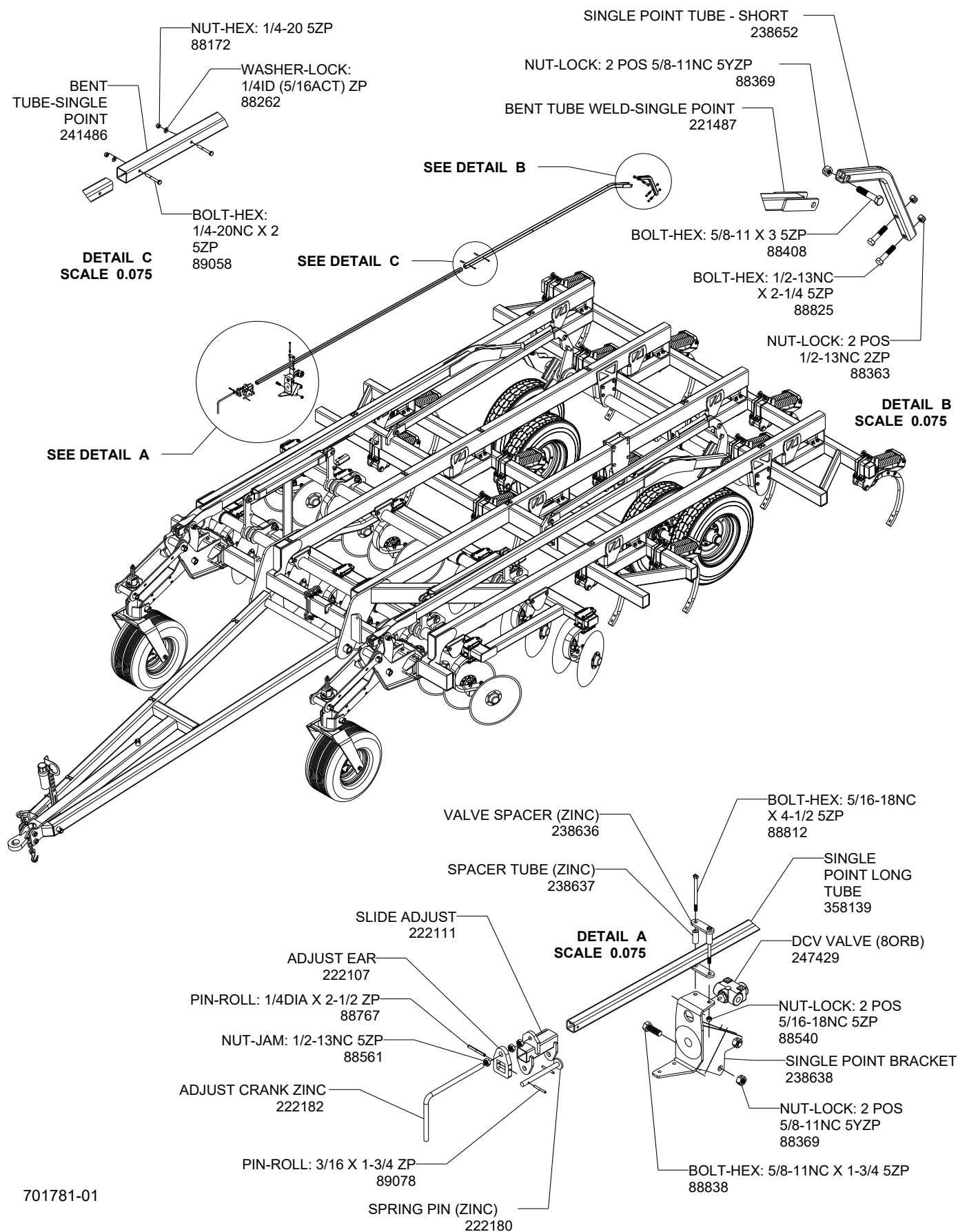


ADJUST ARM ASSEMBLY

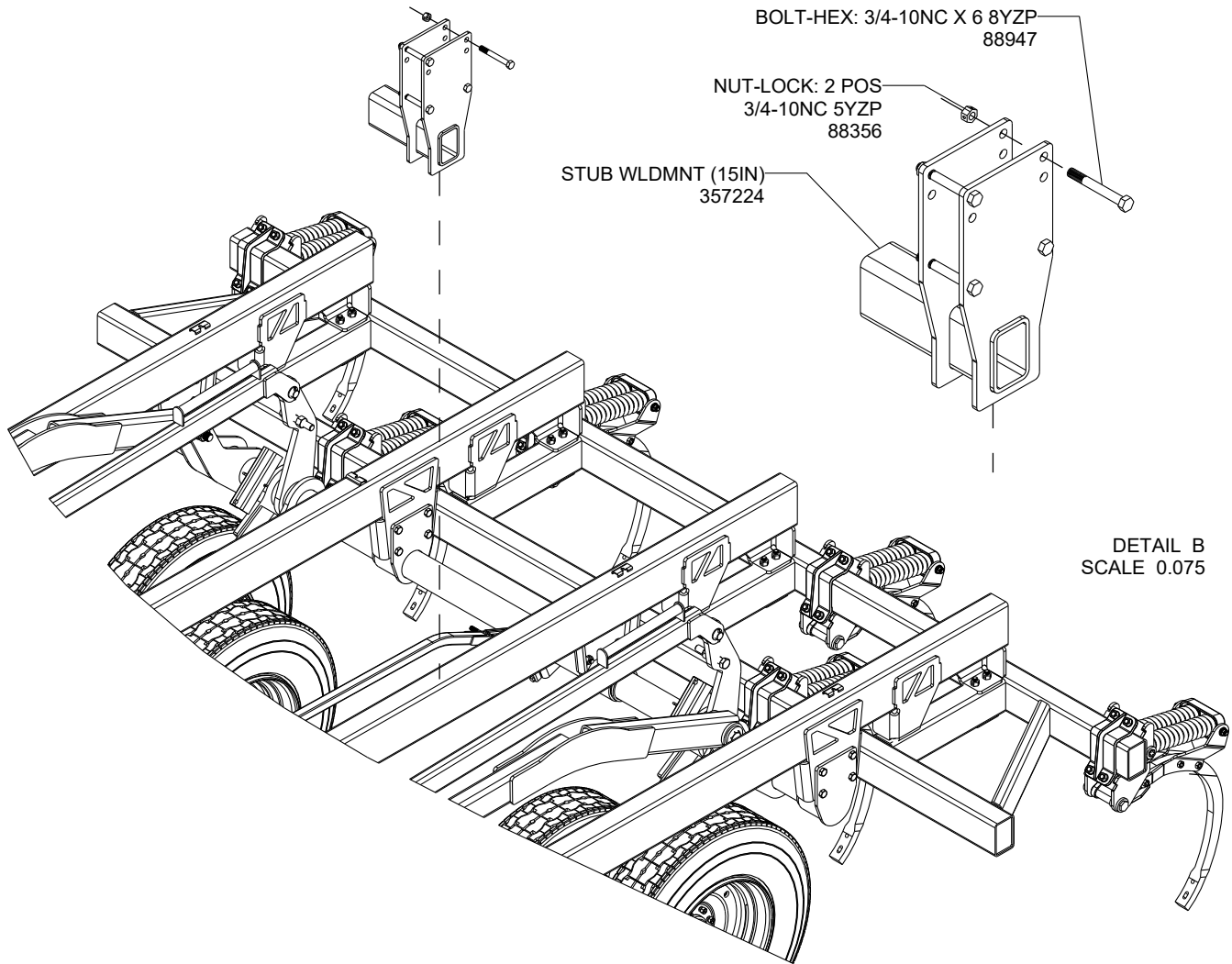


701778-01

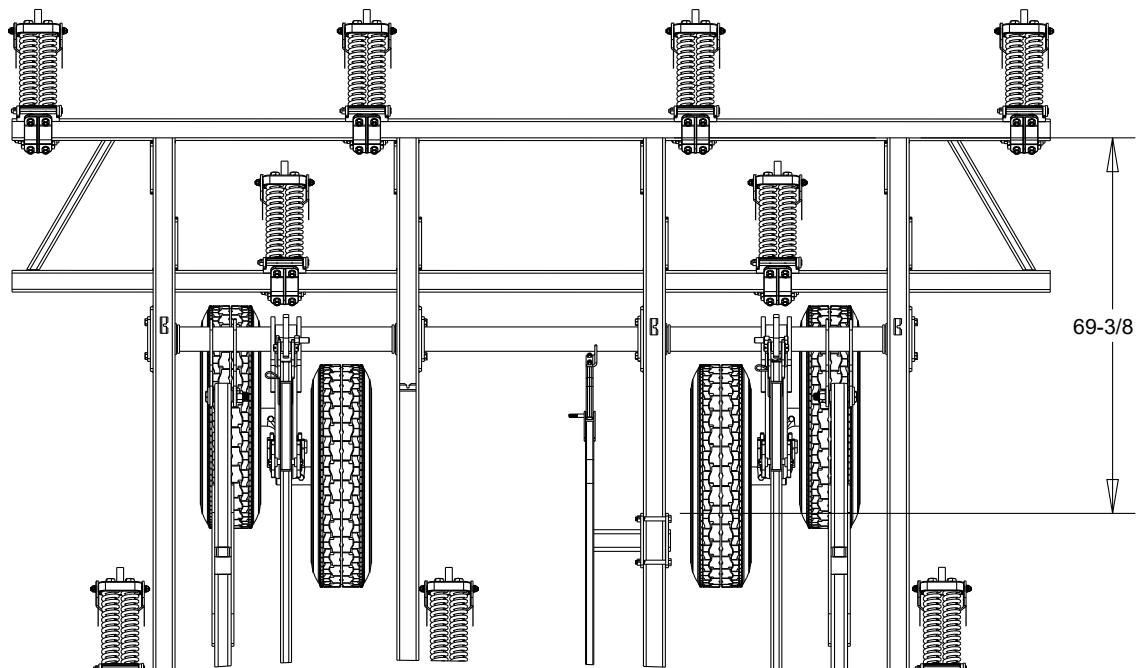
SINGLE POINT DEPTH CONTROL



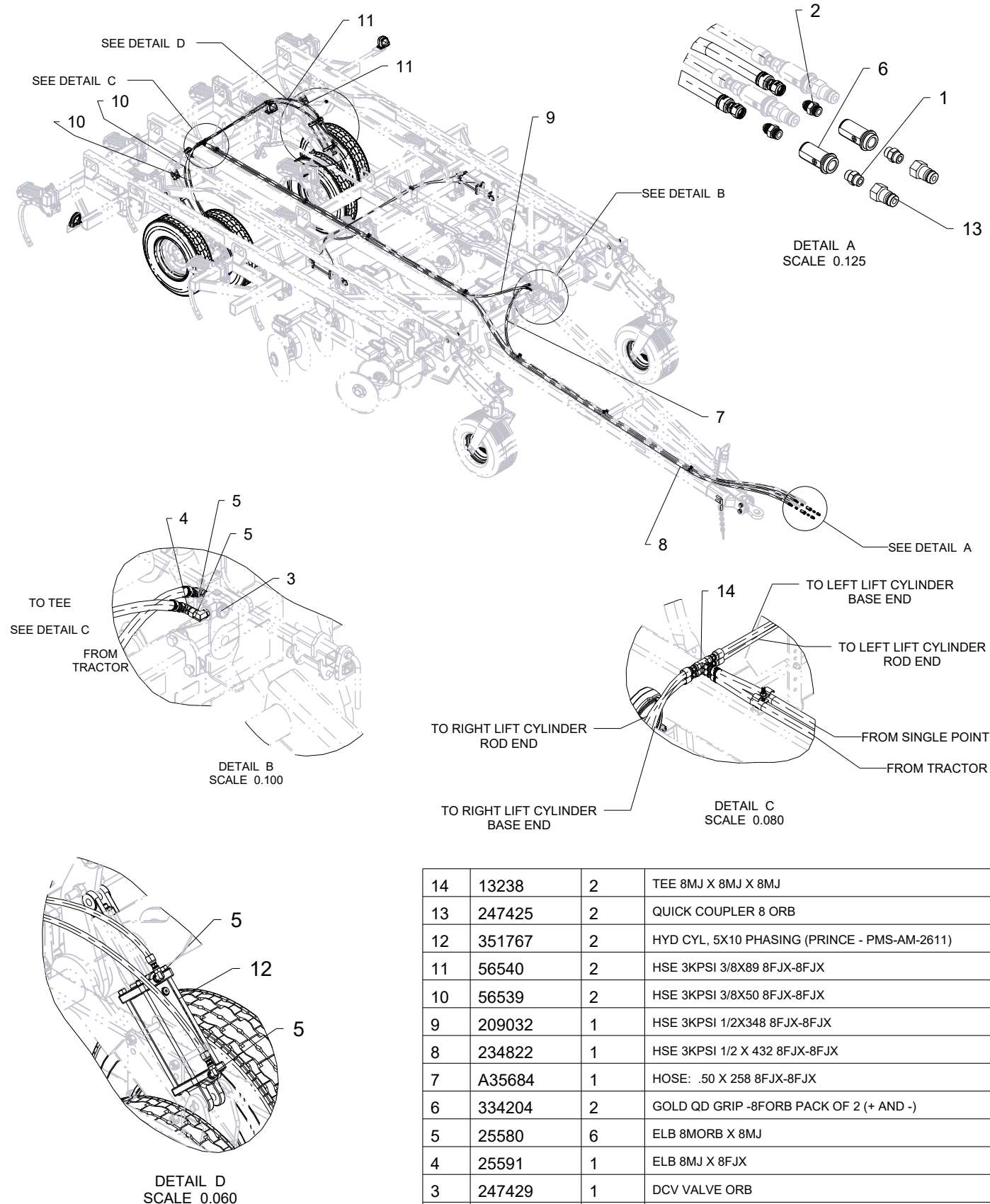
MAIN FRAME SHANK STUB ASSEMBLY



MEASUREMENT TAKEN FROM END OF
LH MAIN FRAME TO STUB

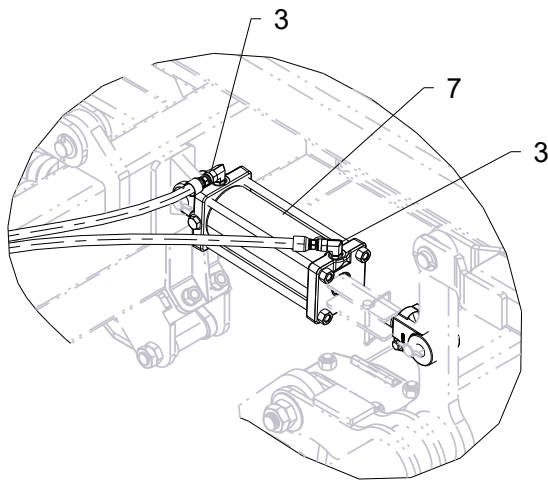
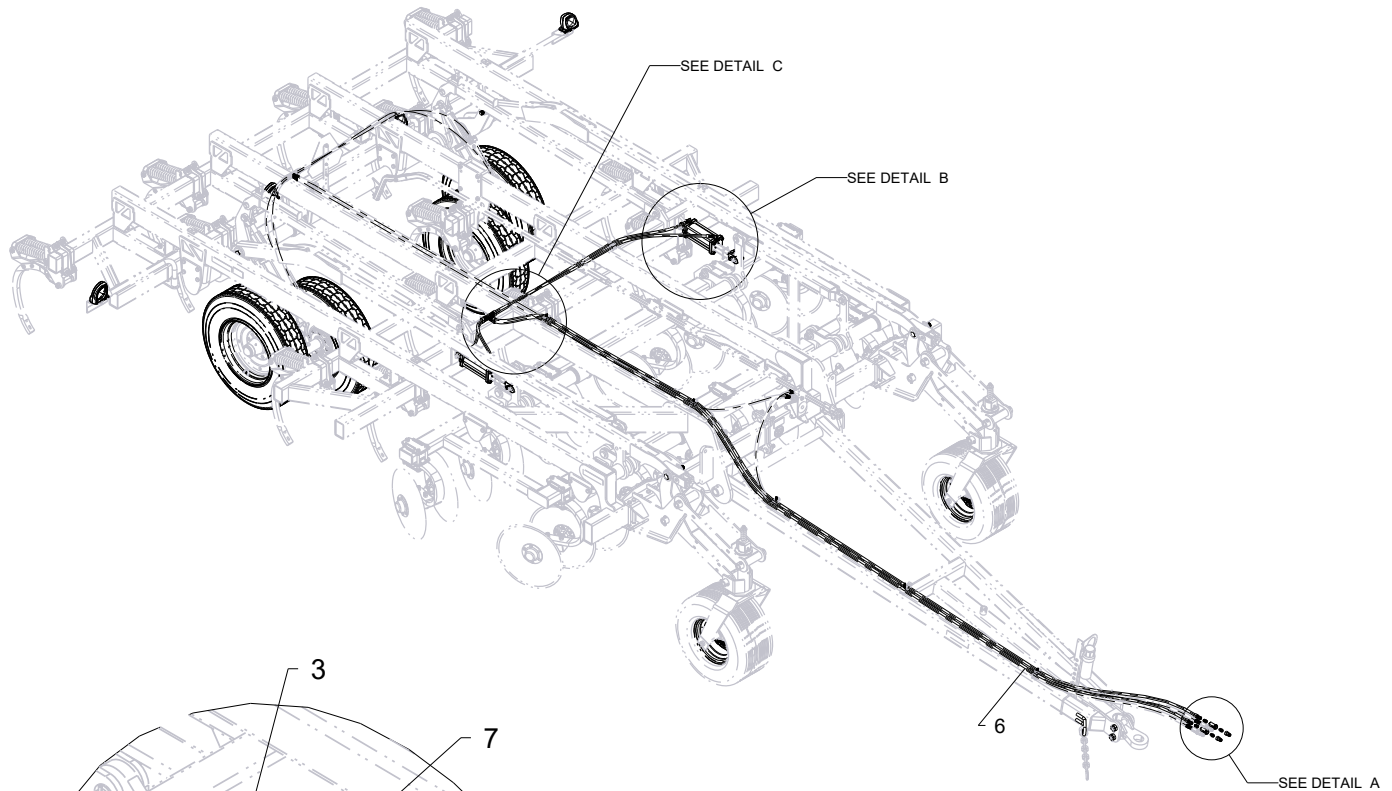


MAIN LIFT HYDRAULICS

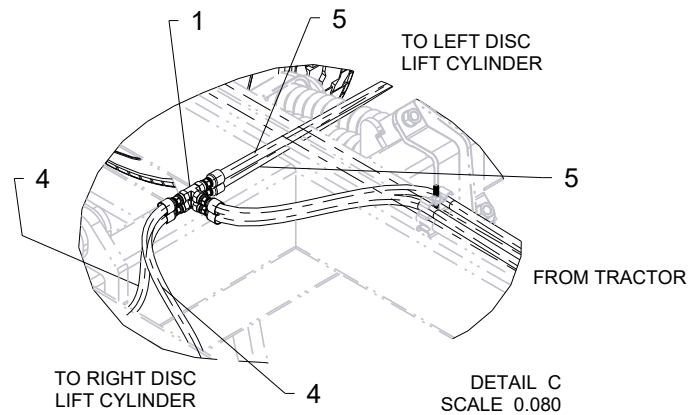


14	13238	2	TEE 8MJ X 8MJ X 8MJ
13	247425	2	QUICK COUPLER 8 ORB
12	351767	2	HYD CYL, 5X10 PHASING (PRINCE - PMS-AM-2611)
11	56540	2	HSE 3KPSI 3/8X89 8FJX-8FJX
10	56539	2	HSE 3KPSI 3/8X50 8FJX-8FJX
9	209032	1	HSE 3KPSI 1/2X348 8FJX-8FJX
8	234822	1	HSE 3KPSI 1/2 X 432 8FJX-8FJX
7	A35684	1	HOSE: .50 X 258 8FJX-8FJX
6	334204	2	GOLD QD GRIP -8FORB PACK OF 2 (+ AND -)
5	25580	6	ELB 8MORB X 8MJ
4	25591	1	ELB 8MJ X 8FJX
3	247429	1	DCV VALVE ORB
2	24024	2	ADP 8MORB X 8MJ
1	334210	2	-8MORB X -8MORB UNION
ITEM	PART NO	QTY	DESCRIPTION

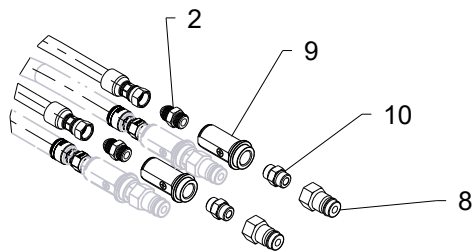
DISC LIFT HYDRAULICS



DETAIL B
SCALE 0.080



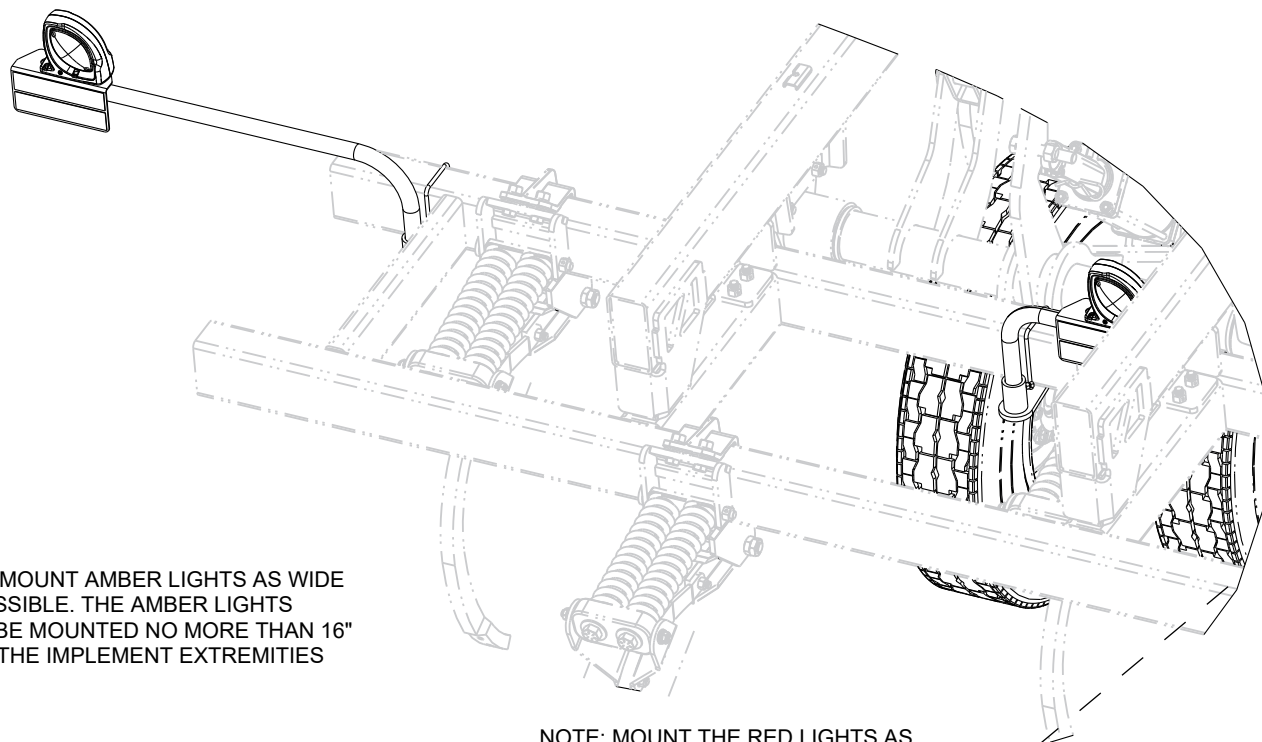
DETAIL C
SCALE 0.080



DETAIL A
SCALE 0.125

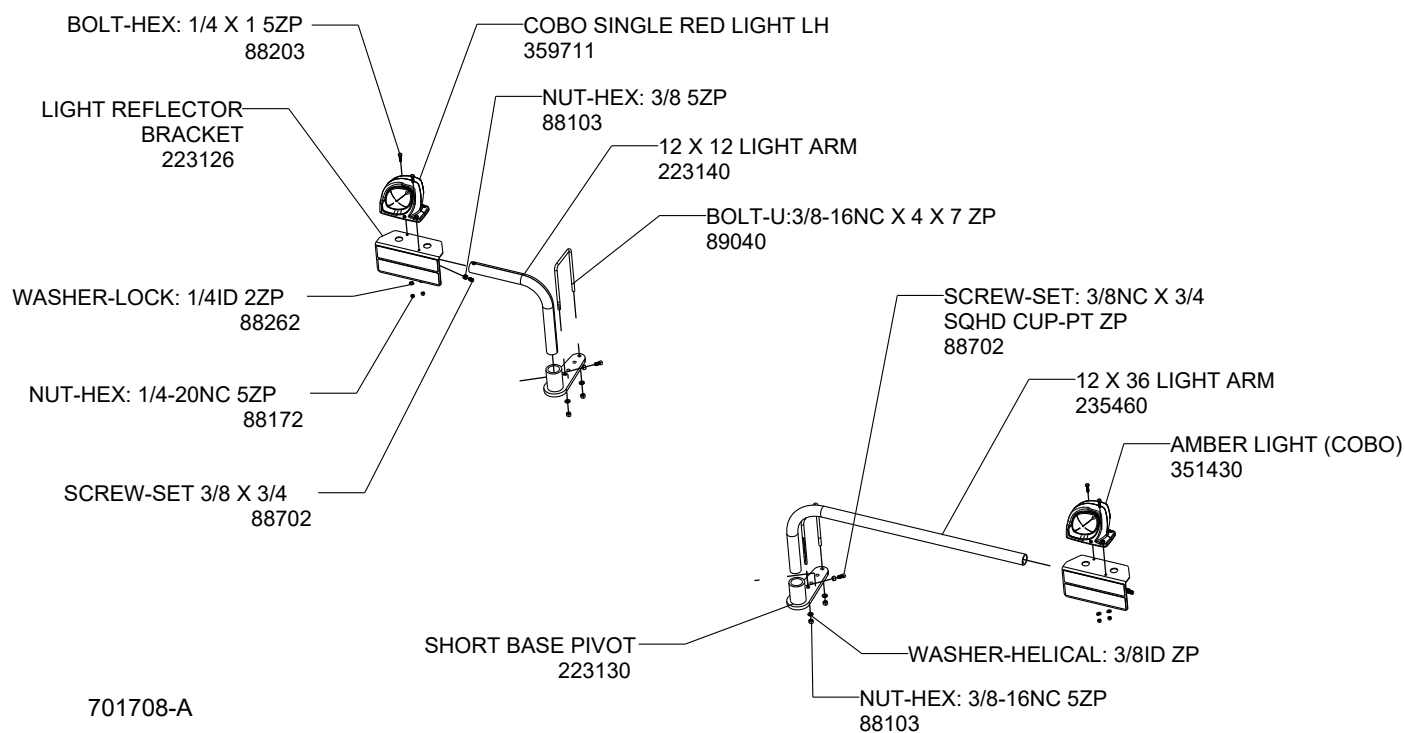
10	334210	2	-8MORB X -8MORB UNION
9	334207	2	GREEN QD GRIP -8FORB PACK OF 2 (+ AND -)
8	247425	2	QUICK COUPLER 8 ORB
7	246056	2	HYD CYL 4X8 SEQ REMOVE PINS
6	240609	2	HSE 3KPSI 3/8X324 8FJX-8FJX
5	56540	2	HSE 3KPSI 3/8X89 8FJX-8FJX
4	25597	2	HSE 3KPSI 3/8X40 8FJX-8FJX
3	25580	4	ELB 8MORB X 8MJ
2	24024	2	ADP 8MORB X 8MJ
1	13238	2	TEE 8MJ X 8MJ X 8MJ
ITEM	PART NO	QTY	DESCRIPTION

SAFETY LIGHT ASSEMBLY

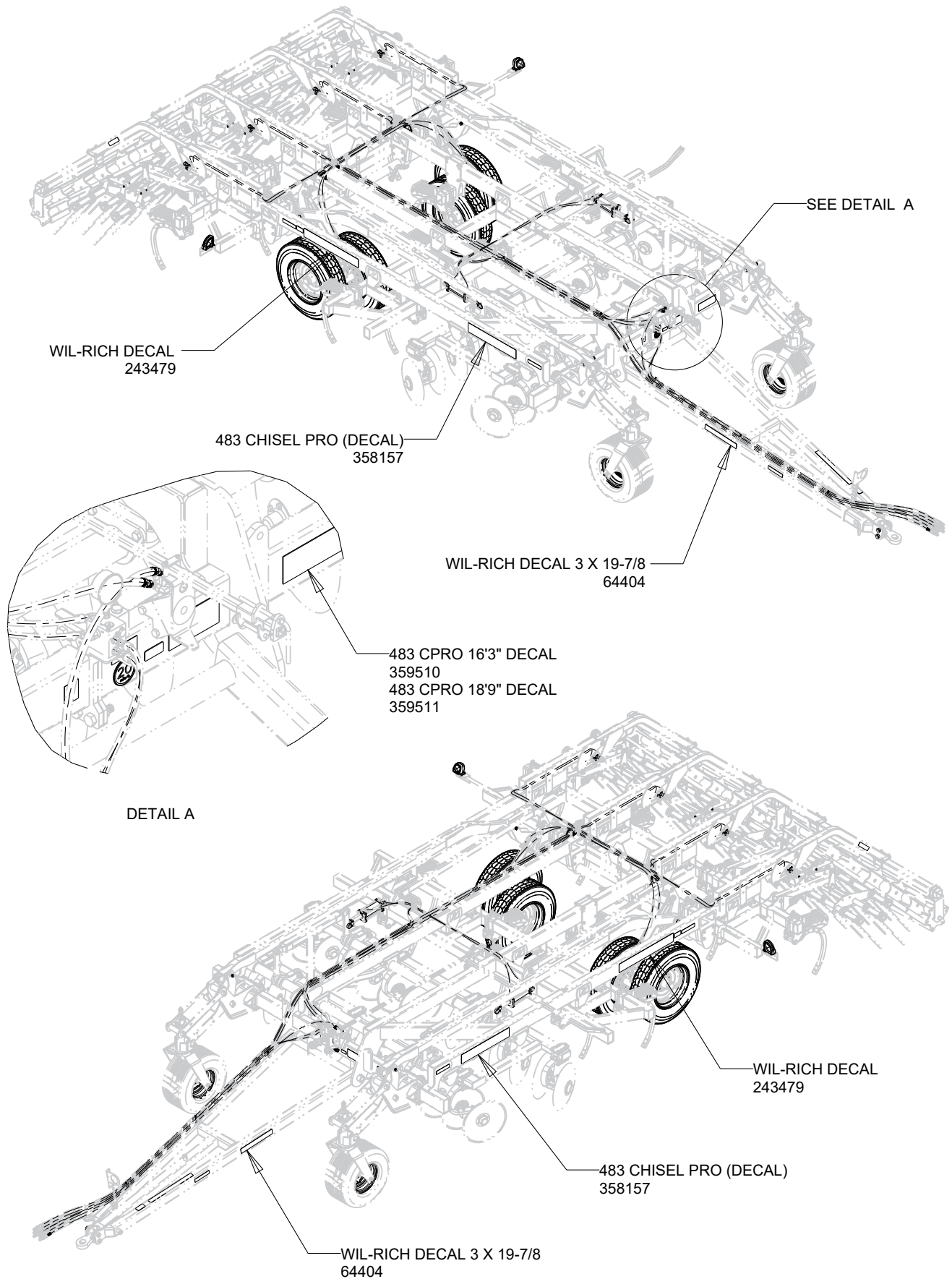


NOTE: MOUNT AMBER LIGHTS AS WIDE AS POSSIBLE. THE AMBER LIGHTS MUST BE MOUNTED NO MORE THAN 16" FROM THE IMPLEMENT EXTREMITIES

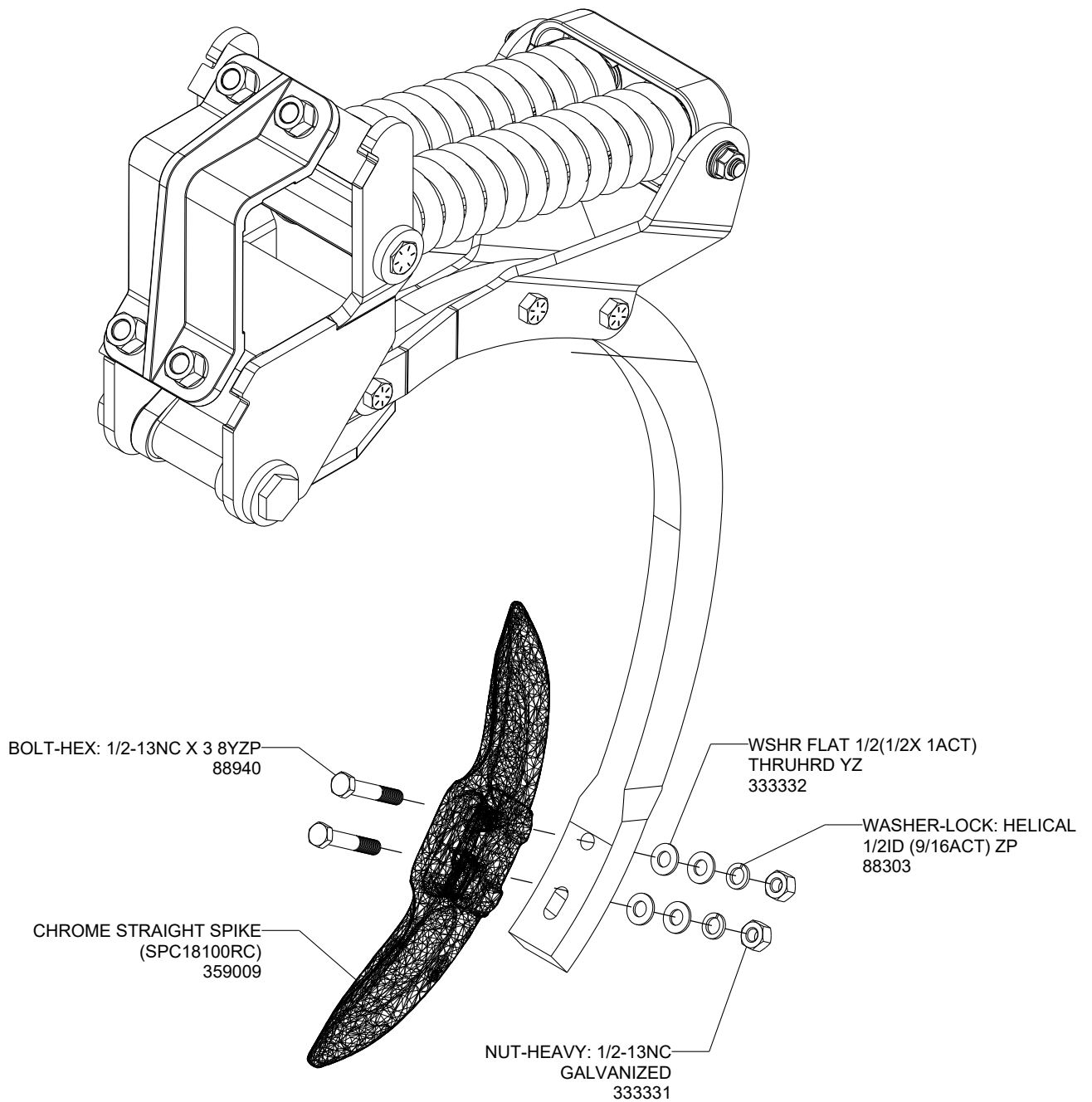
NOTE: MOUNT THE RED LIGHTS AS REWARD AS PRACTICAL ON THE CENTER FRAMESPACE EVENLY 24" TO 120" FROM THE MACHINE CENTER. LIGHTS TO BE SPACED MINIMUM OF 48" APART FROM EACH OTHER.



BRANDING DECAL LAYOUT

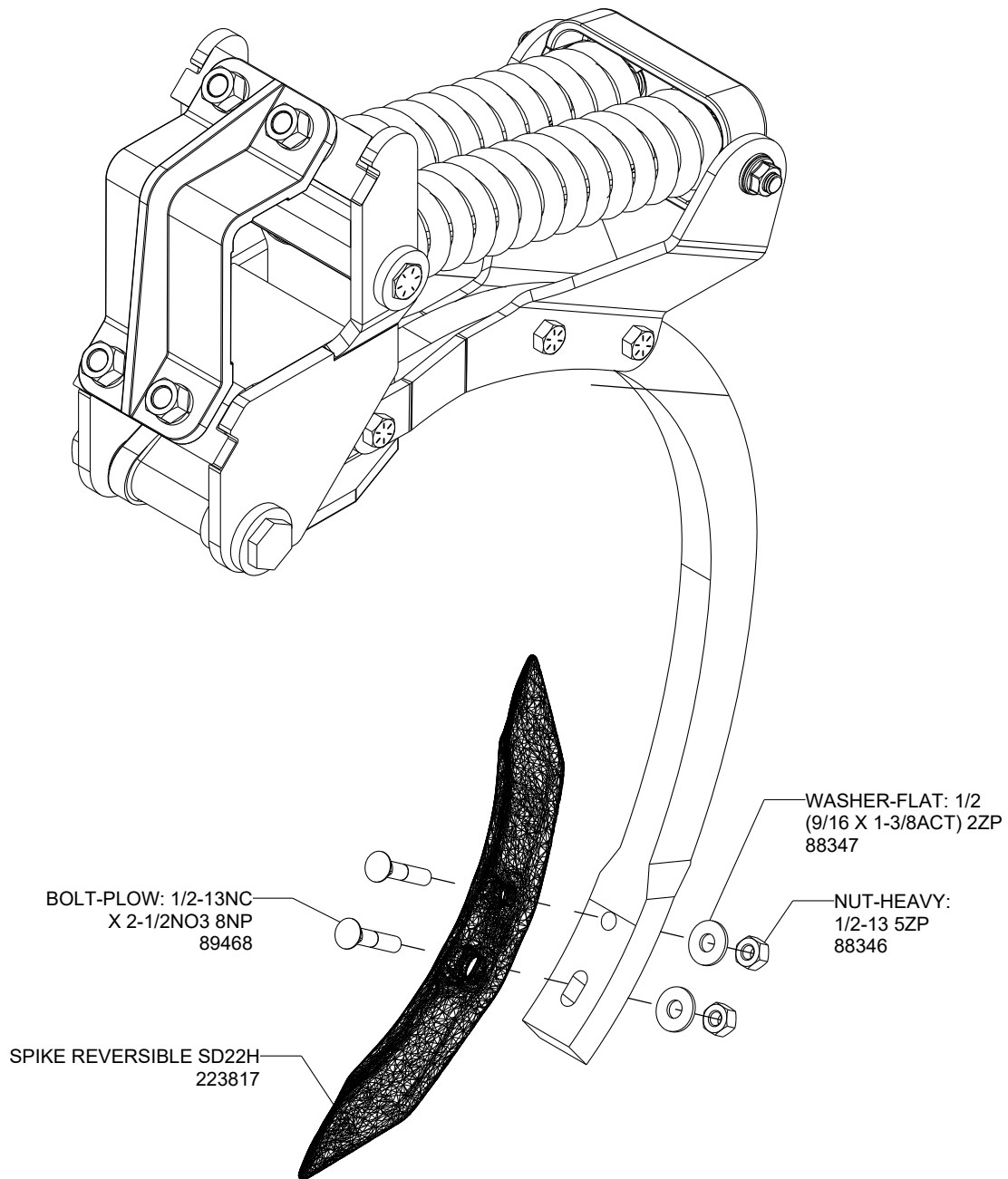


CHROME STRAIGHT SPIKE ASSEMBLY



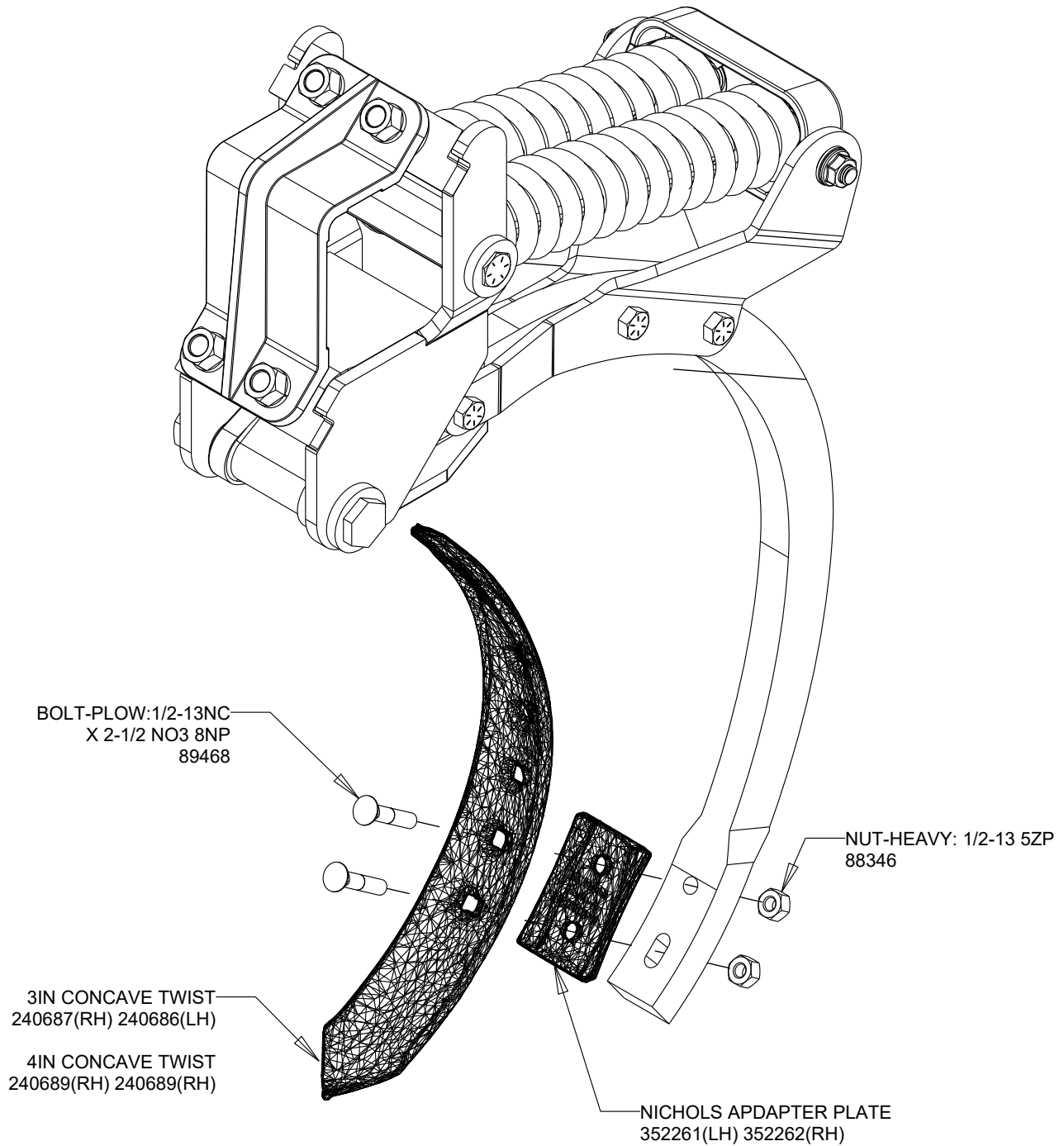
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STRAIGHT SPIKE ASSEMBLY



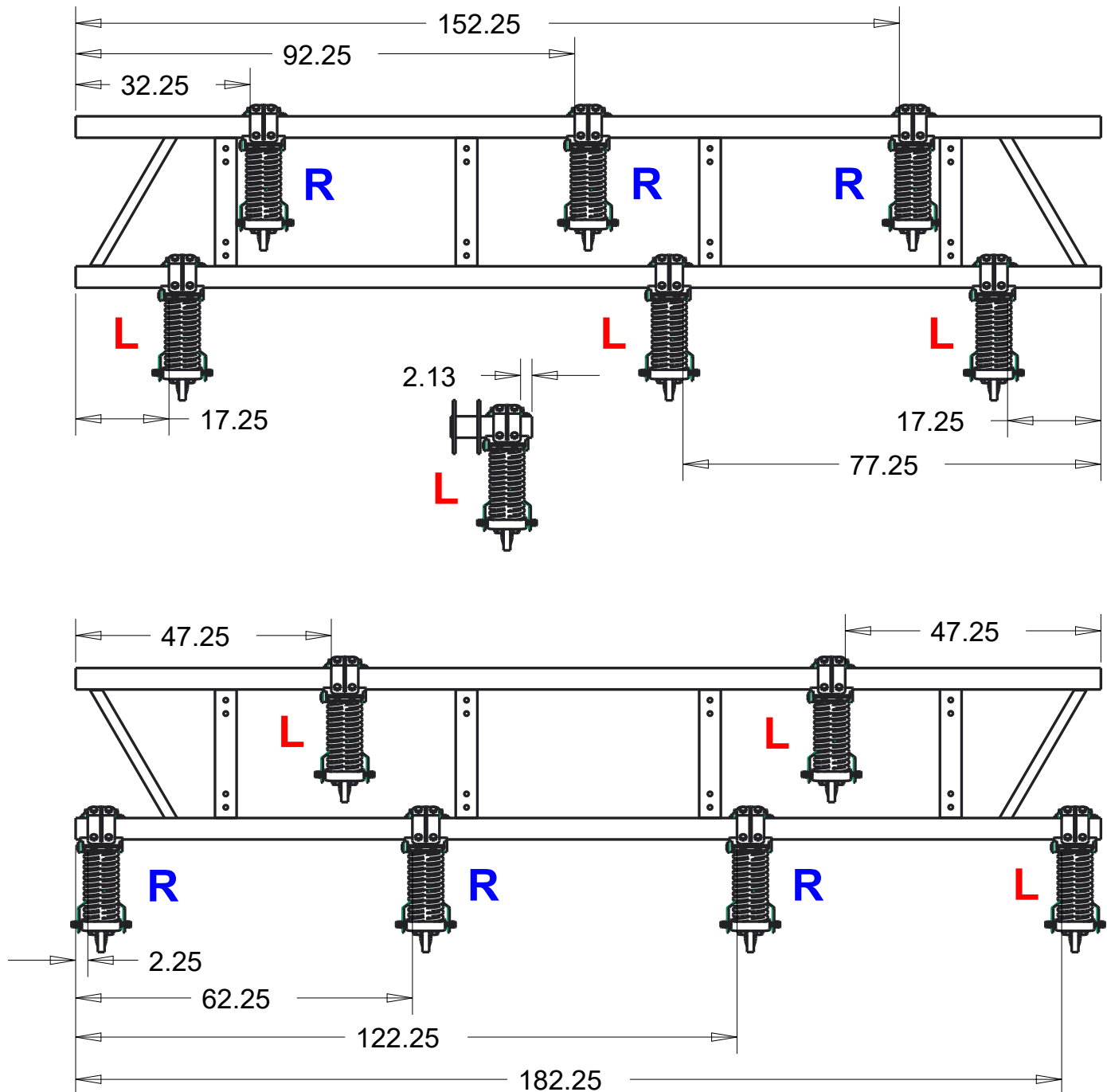
701769-01

CONCAVE TWIST SPIKE ASSEMBLY



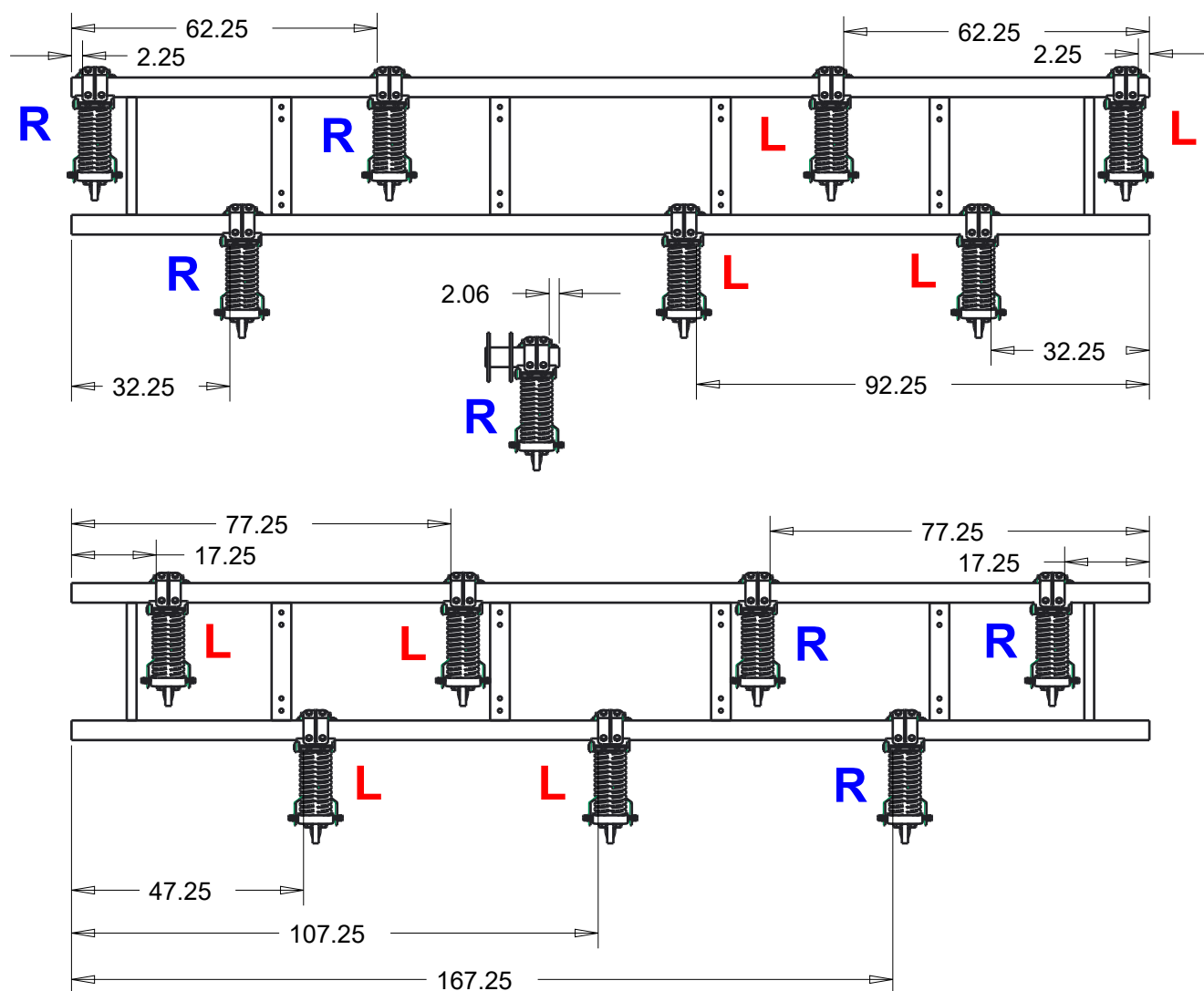
701767-01

16' TWISTED SPIKE LAYOUT



ALL MEASUREMENTS ARE TAKEN FROM THE
SIDE OF THE CLAMP CASTING OF THE SHANK

19' TWISTED SPIKE LAYOUTS



ALL MEASUREMENTS ARE TAKEN FROM THE
SIDE OF THE CLAMP CASTING OF THE SHANK

