

4012

The cover features a large, detailed image of the Kelly Tillage System Model 4012, a green agricultural implement with multiple rows of tines. The machine is shown from a perspective view, highlighting its long frame and complex tine arrangement. The background is white with green decorative elements, including a large green number '4012' at the top left and a grey box with the 'Kelly' logo and stars at the top right. A green banner across the middle contains the title and revision information. A white box for the serial number is located on the left side. The bottom right corner has a grey box with contact information. The entire image is set against a white background with green curved accents at the bottom.

Kelly 

Kelly Tillage System Model 4012 Assembly Manual

Revision B - December 2020

Serial Number:

Kelly Tillage
PO Box 100
Booleroo Centre
South Australia 5482
P +61 8 8667 2253
W kellytillage.com

Thank you for choosing a Kelly Tillage product

We trust that you find the following manual clear and easy to follow. If you should require additional customer support or assistance, please do not hesitate to contact us.

Spare parts can be purchased, as required, through your local dealer or by contacting Kelly Tillage directly.

Kelly welcomes feedback. Should you have any difficulties that you wish to raise, suggestions for improvement or modifications that you feel would enhance our products we look forward to hearing from you.

Kelly Tillage

PO Box 100

Booleroo Centre SA 5482

Phone: + 61 8 8667 2253

Fax: + 61 8 8667 2250

Email: sales@kellytillage.com

Spare Parts: parts@kellytillage.com

Website: www.kellytillage.com

Spare Parts

Hood & Company Inc

Springfield MO

Phone: 417 865 2100

Fax: 417 865 2105

Email: hoodco@hoodco.com

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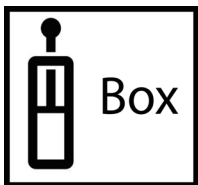
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This symbol indicates which bag the relevant fasteners are in



This symbol indicates which bag the relevant hydraulics are in



This symbol indicates the hydraulics are in a box



This symbol indicates which way the machine is travelling

Section 1

Unpacking

Unpacking

We recommend the use of suitable lifting equipment with a lifting capacity of at least 4 tonnes.



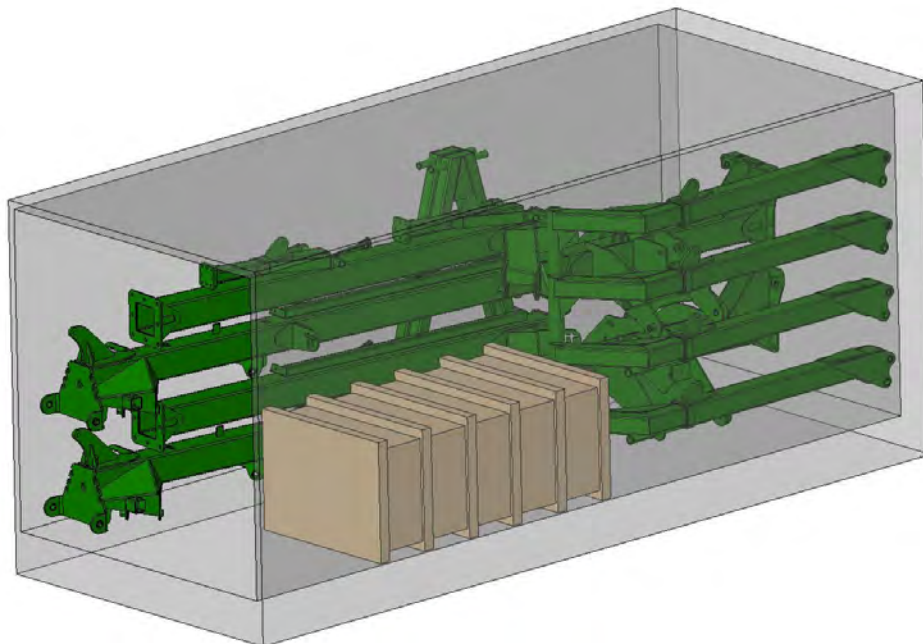
- Before unloading any loads please inspect exterior for damage

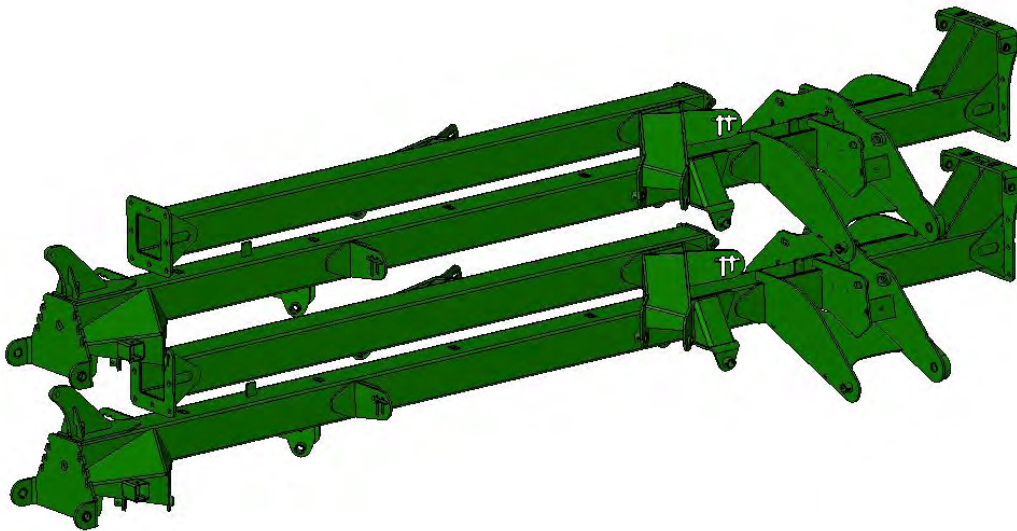


CAUTION

Take care when opening doors as load may have shifted or restraints may have broken.

- Remove boxes from doorway of container one at a time using a forklift truck. Each box weighs approximately 5512 lbs (2500kg)
- Check strapping on each bundle before attempting to remove
- Attach chains to the packing frame using shackles and using suitable equipment (eg. fork-lift or tractor) drag framework bundles out of container. To move bundles away from front of container lift from side with forklift. Do not lift under angle iron frame, lift only under centre frame. Each bundle weighs approximately 7000 lb (3200 kg).





CAUTION

Before cutting straps attach slings or chains and take the weight of the frames to avoid them slipping or falling and causing injury.



CAUTION

Wear eye and hand protection when cutting straps. Sharp edges are exposed as straps separate and may cause injury.



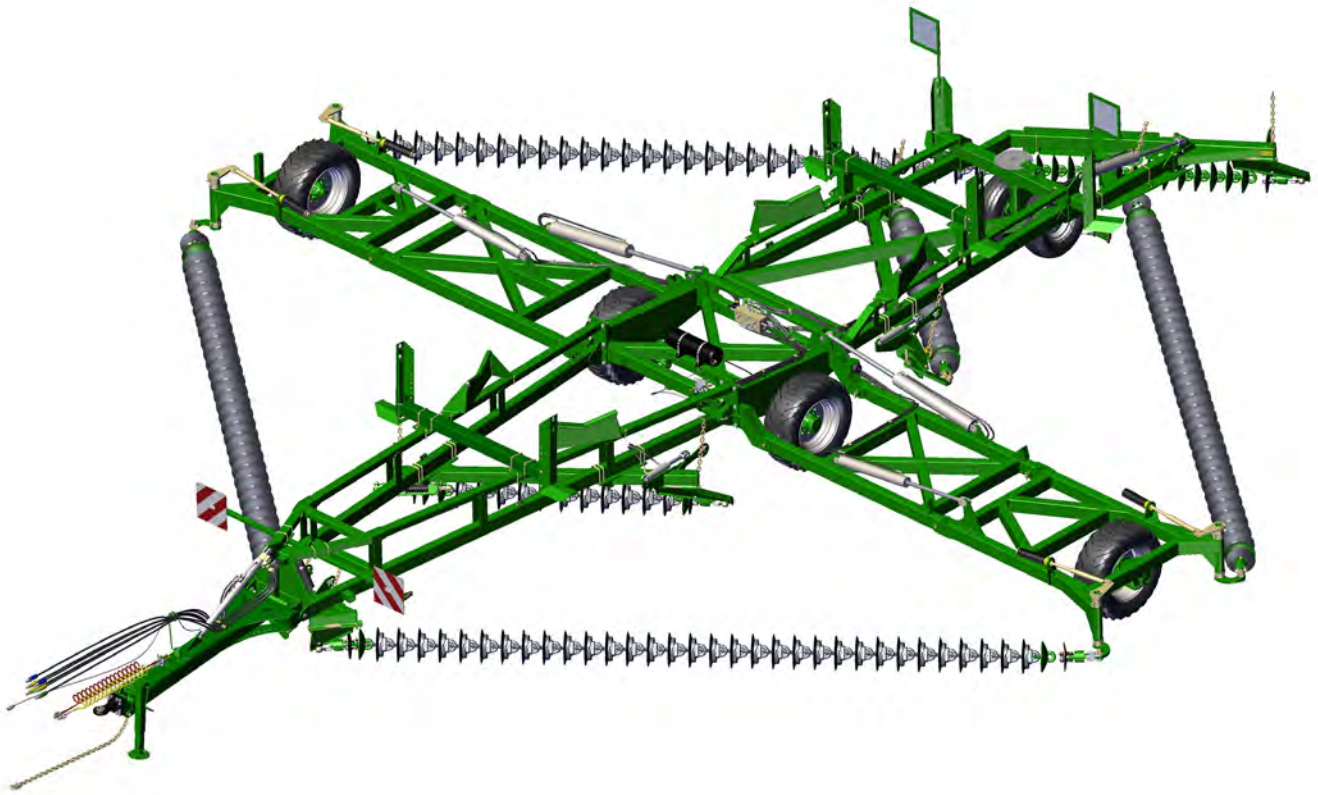
CAUTION

To avoid falling or moving components, before cutting straps attach slings or chains to individual pieces and only cut the straps holding the piece to be lifted.

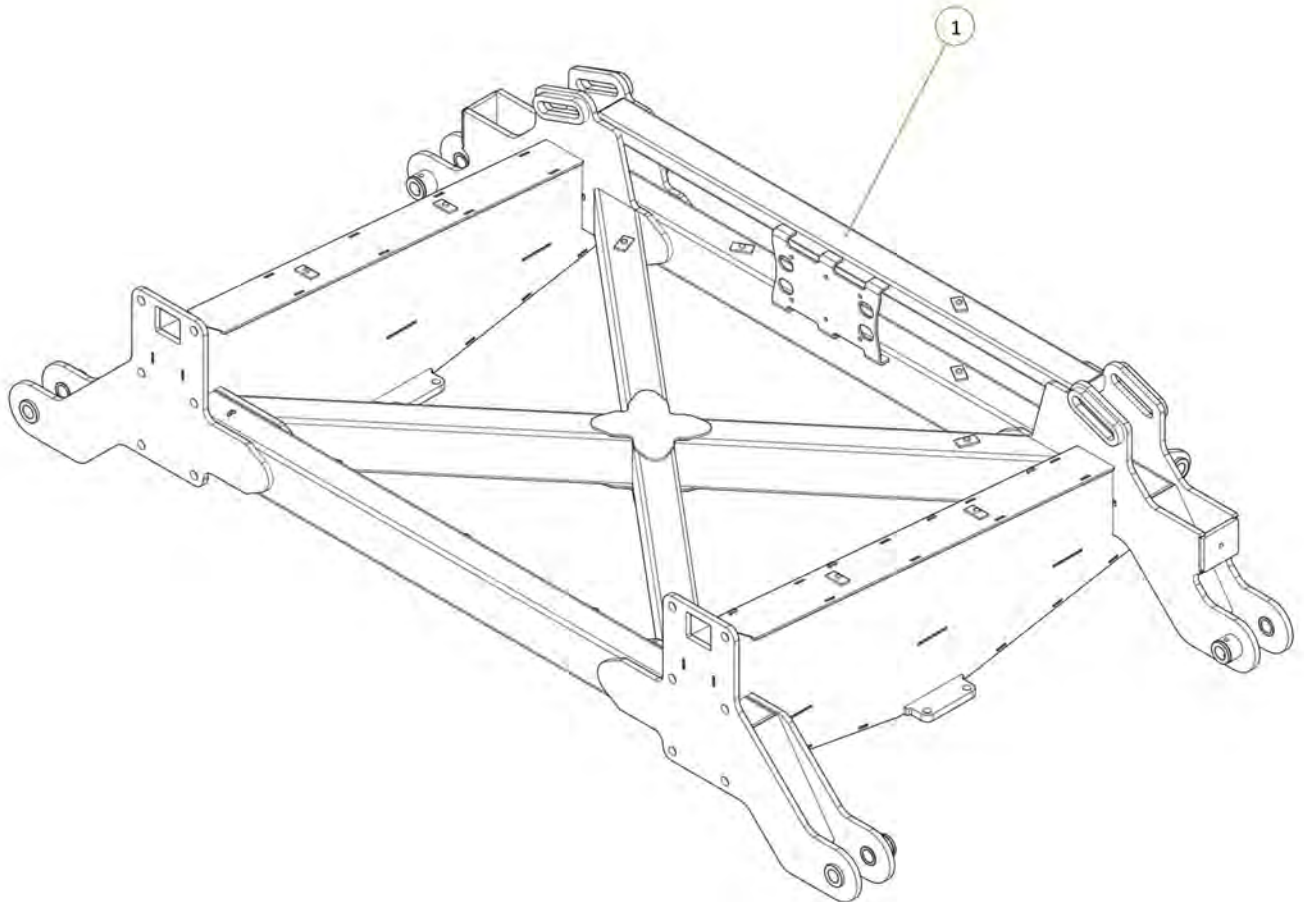
- Remove boxes from rear of container one at a time using a forklift truck. Each box weighs approximately 5512 lbs (2500 kg)
- Cut straps holding bundles and separate parts and place in assembly area
- Once all parts have been identified, the machine is ready for assembly
- Identify parts for each machine by serial no. or description and separate. Open parts box and check that all parts are accounted for against checklist
- Read assembly instructions before proceeding.

Section 2

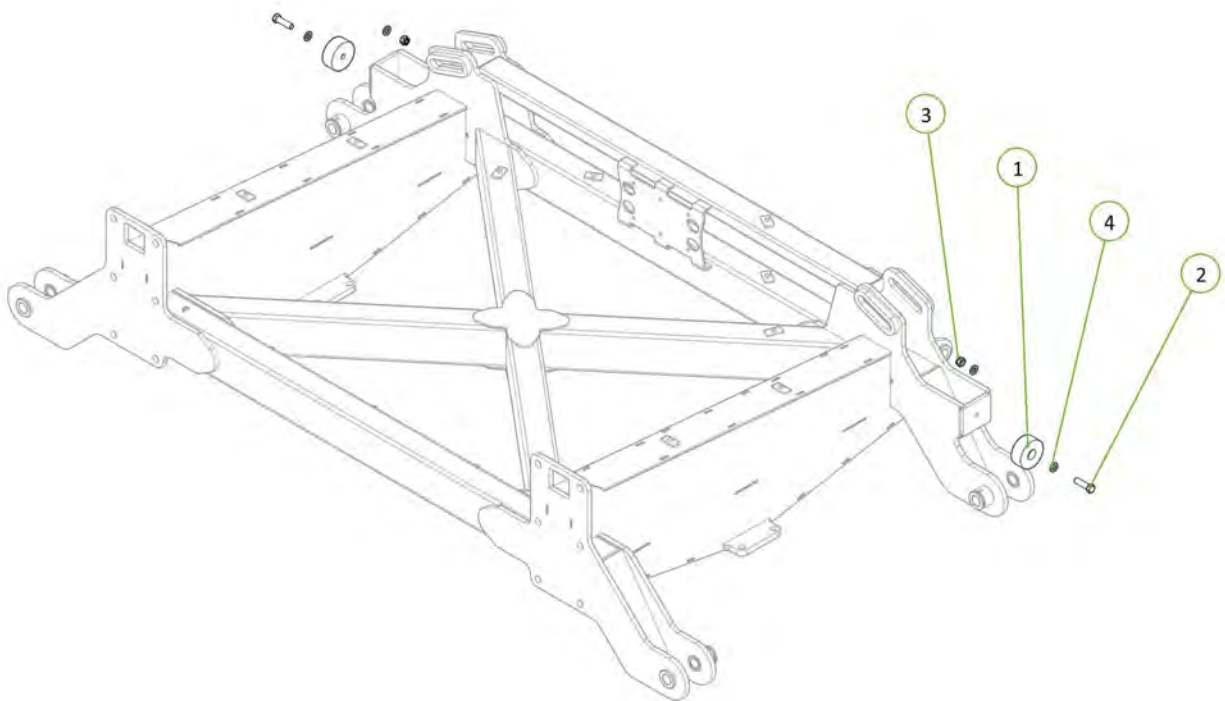
Assembly



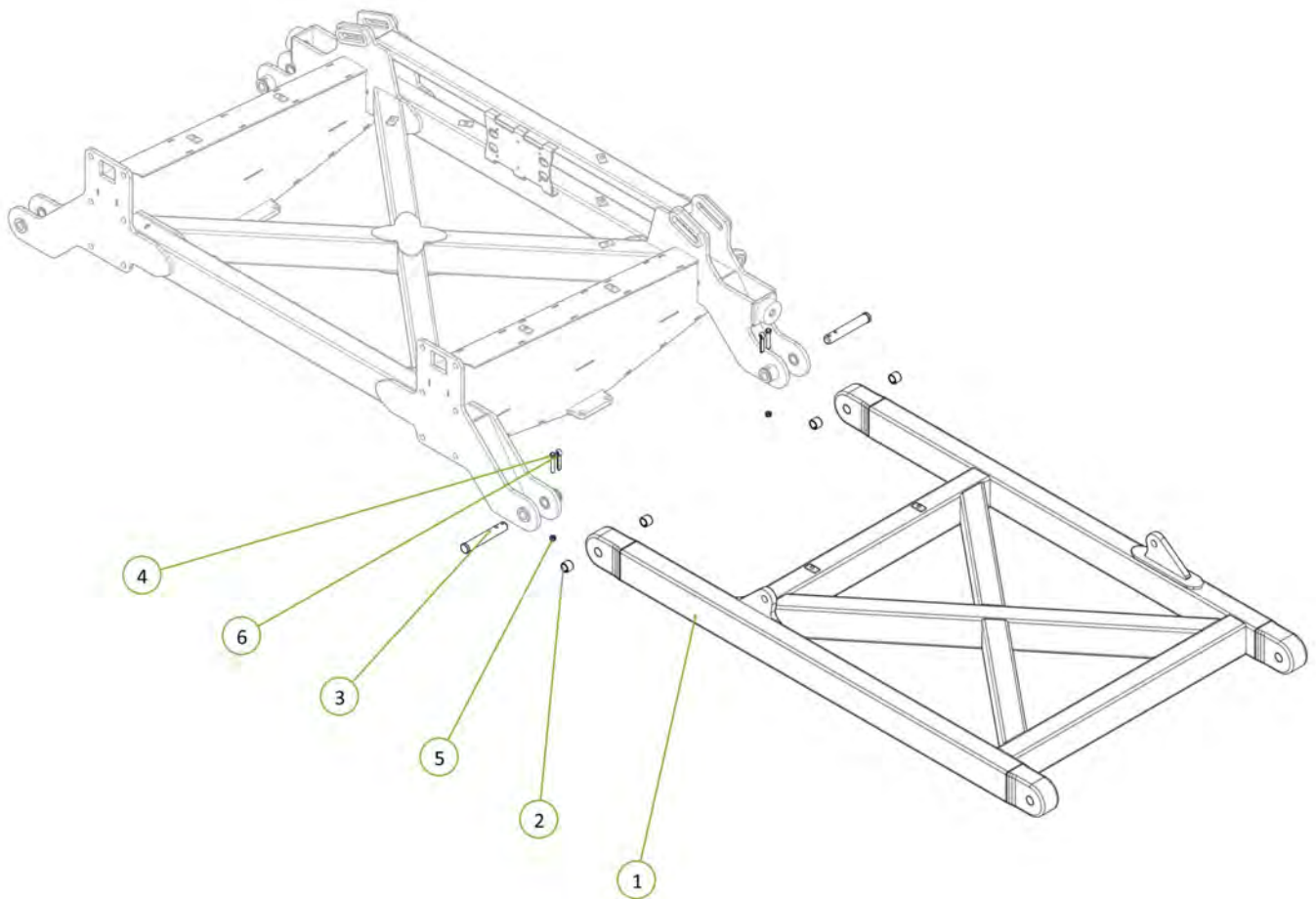
Item No.	Description	Qty	Number
1	40' Centre Frame	1	1540-01-1



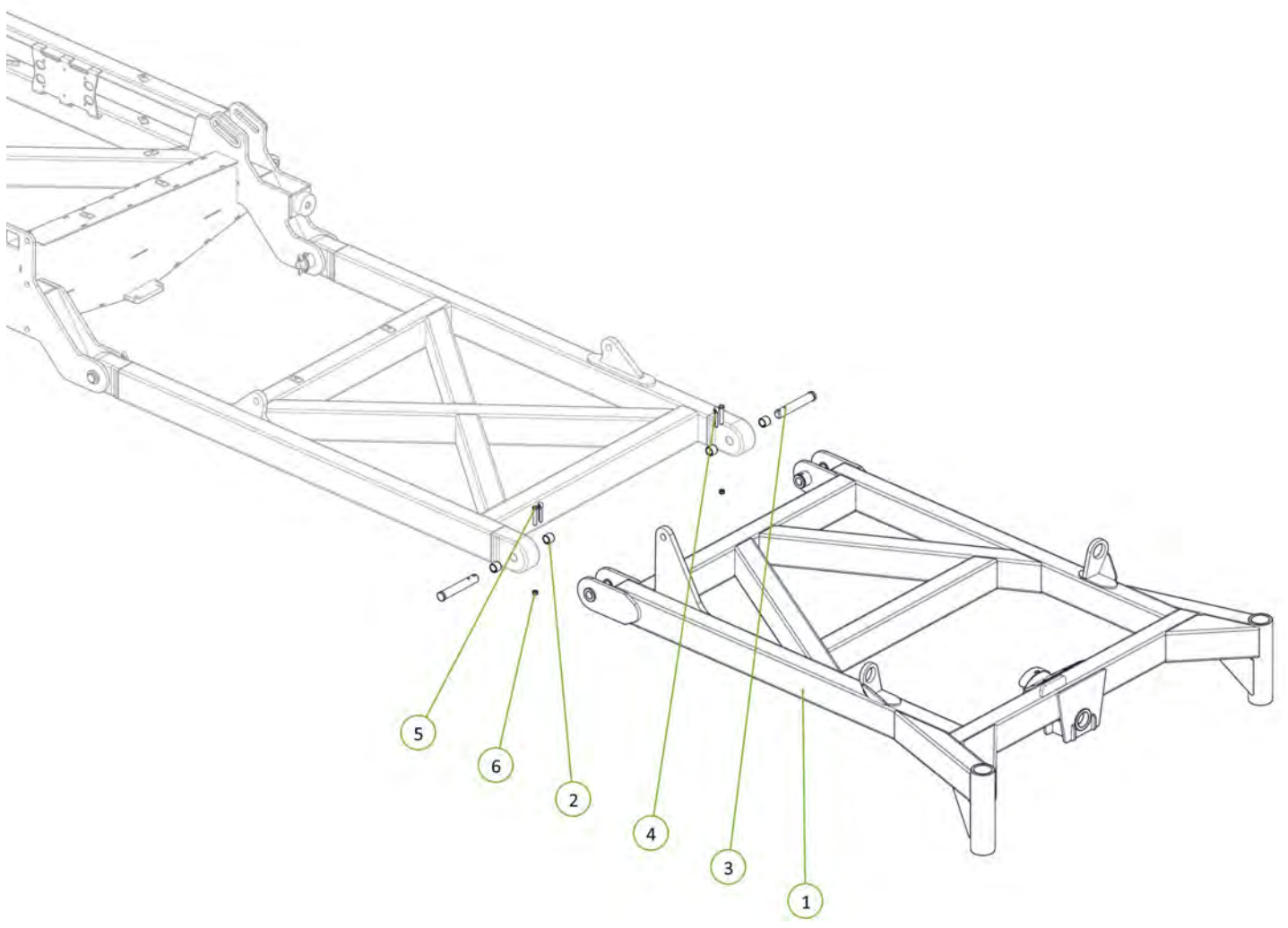
Item No.	Description	Qty	Number
1	Wing Folding Buffer	2	1201-12
2	M16 x 60 grade 8.8 zp Bolt	2	0211-1660
3	Nyloc Nut M16	2	0221-NYL16
4	Washer Flat M16	4	0231-F16



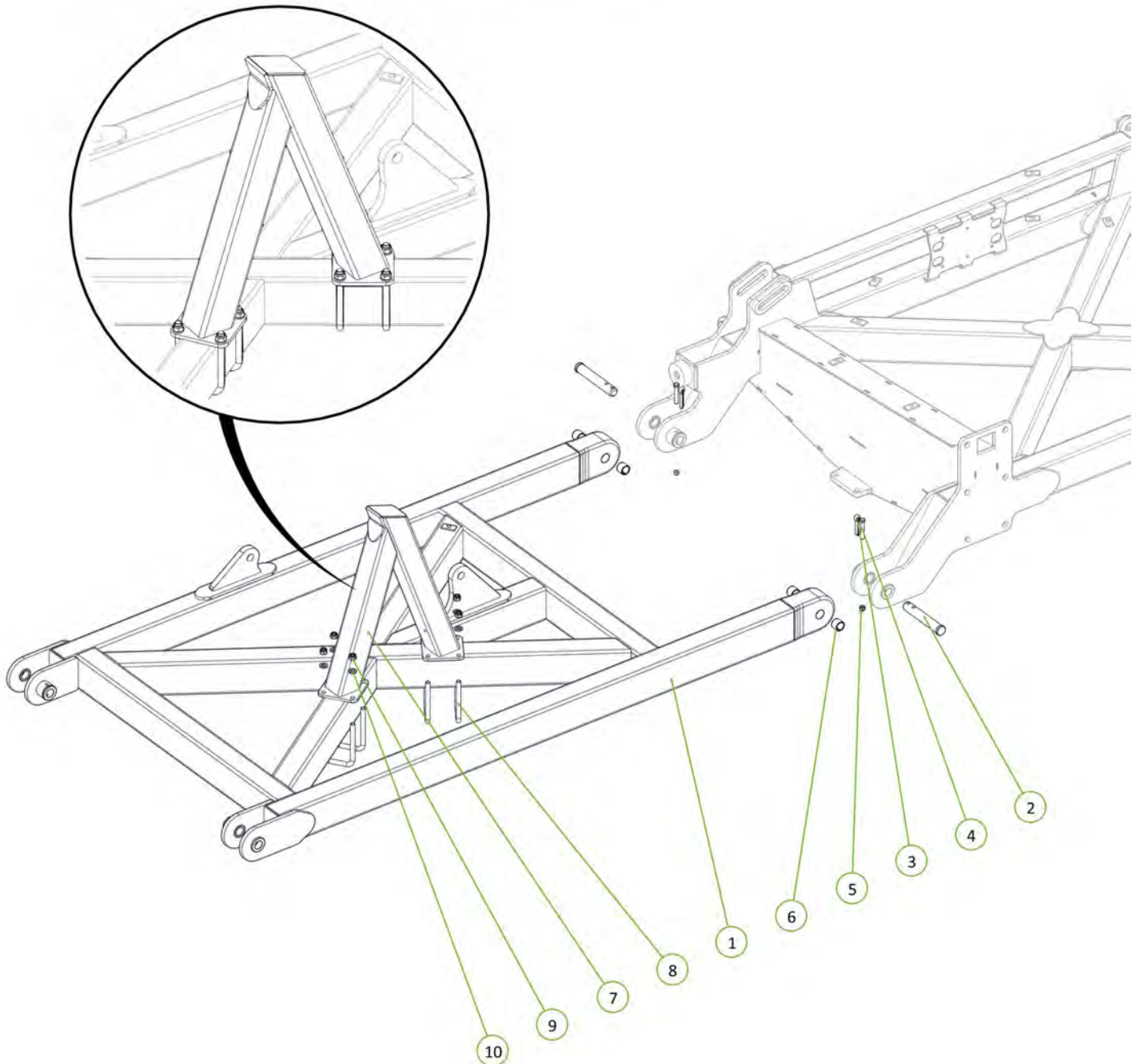
Item No.	Description	Qty	Number
1	40' LH Inner Wing	1	1540-05-3
2	35 ID x 30mm DU Bush	4	0113-MB 3530DU
3	PCH Wing Pivot Pin	2	0801-10-08-235
4	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
5	Nyloc Nut M12	2	0221-NYL12
6	Cotter Pin M13 x 63	2	0261-PINC1363



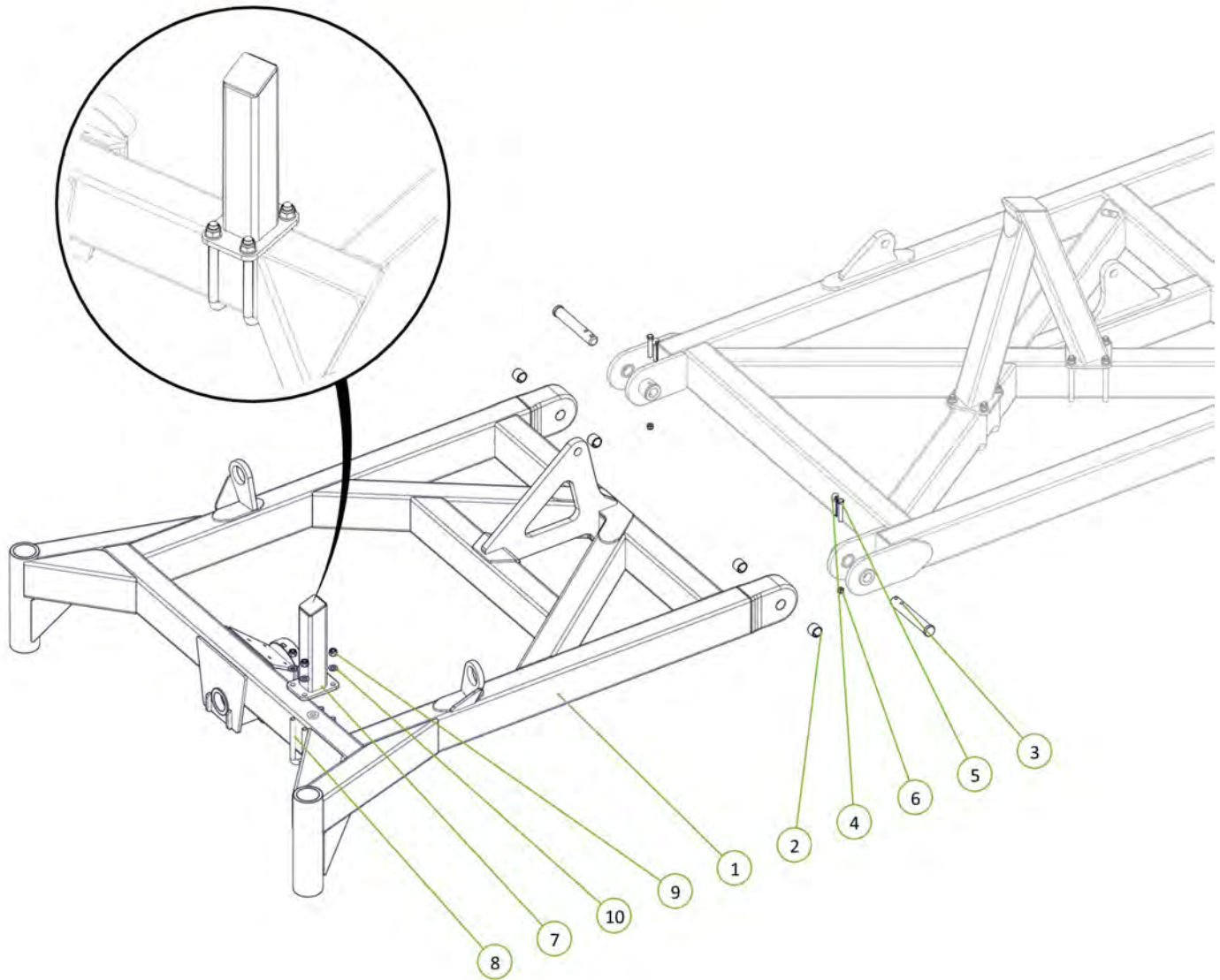
Item No.	Description	Qty	Number
1	40' LH Outer Wing	1	1540-07-2
2	35 ID x 30mm DU Bush	4	0113-MB 3530DU
3	PCH Wing Pivot Pin	2	0801-10-08-235
4	Cotter Pin M13 x 63	2	0261-PINC1363
5	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
6	Nyloc Nut M12	2	0221-NYL12



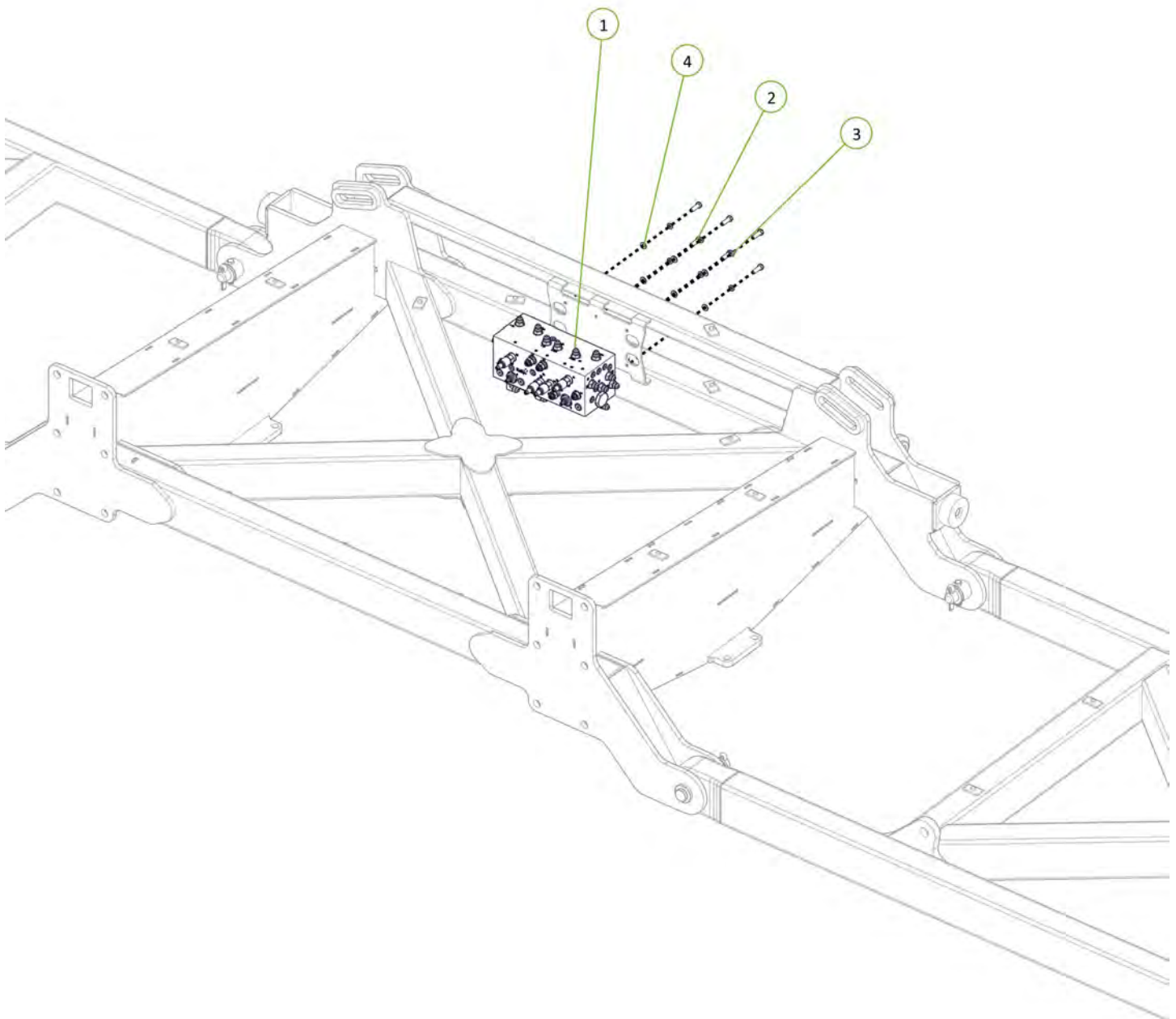
Item No.	Description	Qty	Number
1	40' RH Inner Wing	1	1540-04-3
2	PCH Wing Pivot Pin	2	0801-10-08-235
3	Cotter Pin M13 x 63	2	0261-PINC1363
4	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
5	Nyloc Nut M12	2	0221-NYL12
6	35 ID x 30mm DU Bush	4	0113-MB 3530DU
7	Inner Wing Post	1	1510-244
8	U-Bolt M16 x 185 Deep x 104 Wide	4	0271-16185104
9	Nyloc Nut M16	8	0221-NYL16
10	Washer Flat M16	8	0231-F16



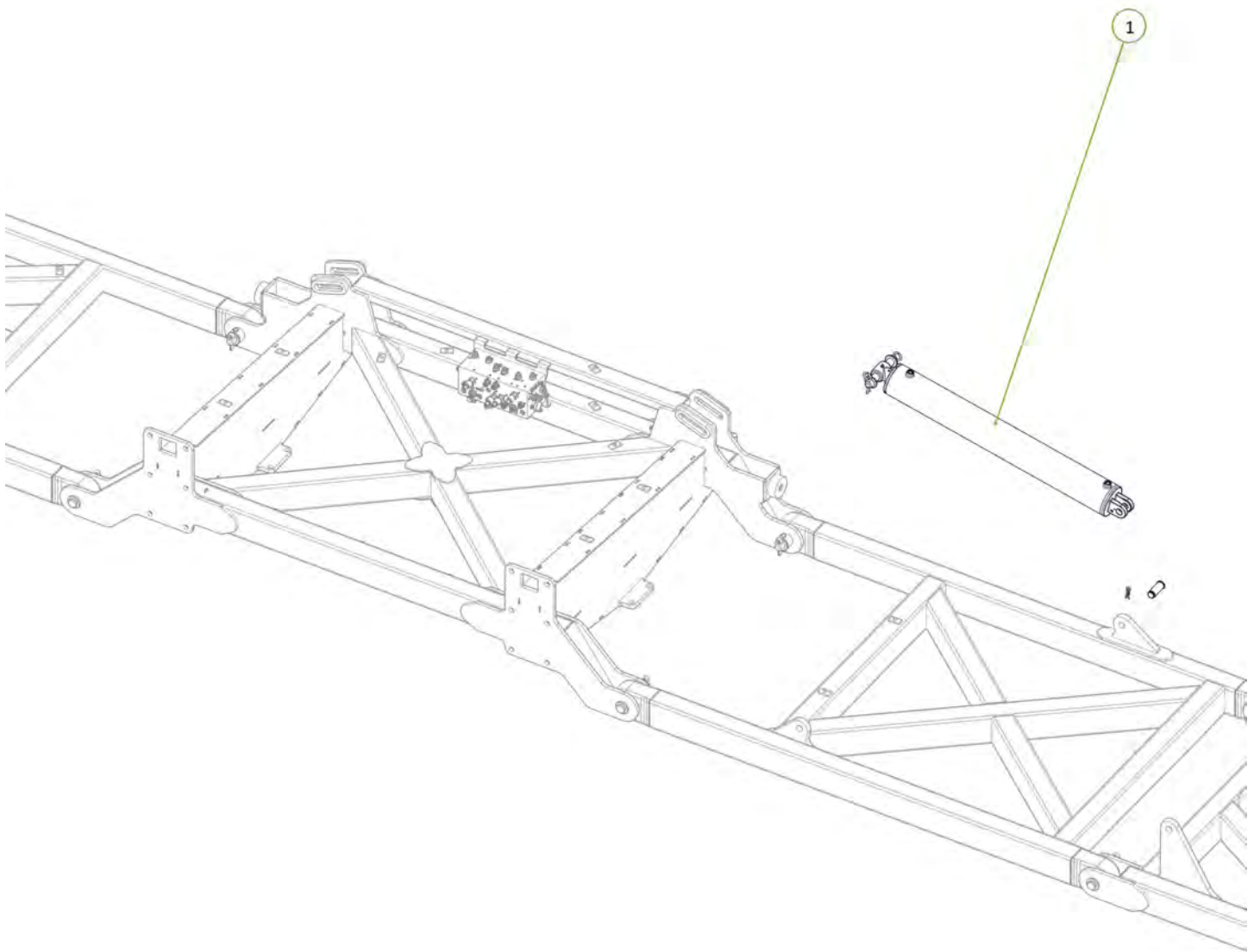
Item No.	Description	Qty	Number
1	40' RH Outer Wing	1	1540-06-2
2	35 ID x 30mm DU Bush	4	0113-MB 3530DU
3	PCH Wing Pivot Pin	2	0801-10-08-235
4	Cotter Pin M13 x 63	2	0261-PINC1363
5	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
6	Nyloc Nut M12	2	0221-NYL12
7	Right Hand Outer Wing Post	1	1510-241
8	U-Bolt M16 x 185 Deep x 104 Wide	2	0271-16185104
9	Nyloc Nut M16	4	0221-NYL16
10	Washer Flat M16	4	0231-F16

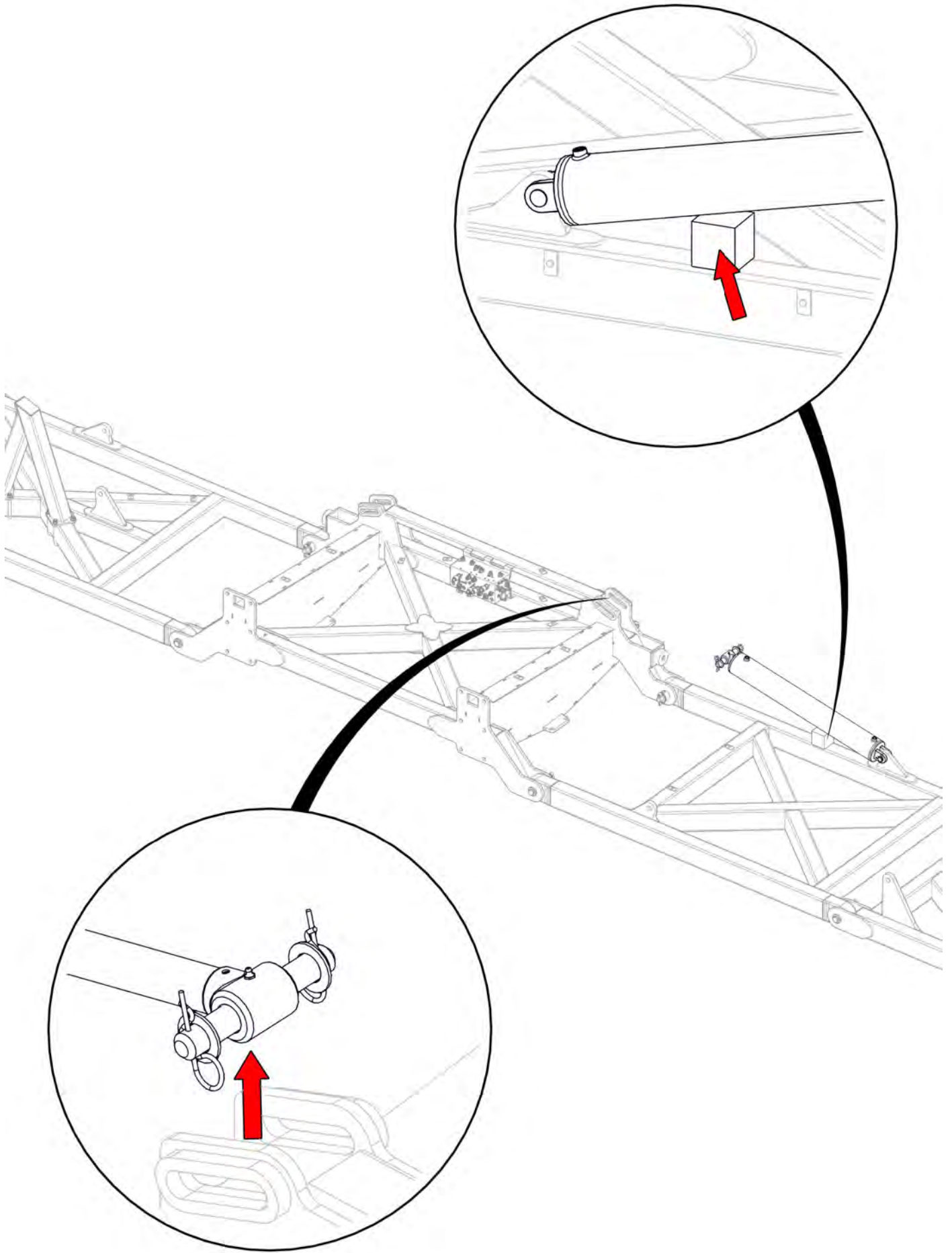


Item No.	Description	Qty	Number
1	Dual Circuit 3 Stage Sequence Manifold V12	1	0802-691033
2	M10 x 30 grade 8.8 ZP Bolt	6	0211-1035
3	Washer Spring M10	6	0231-S10
4	Washer Flat M10	6	0231-F10

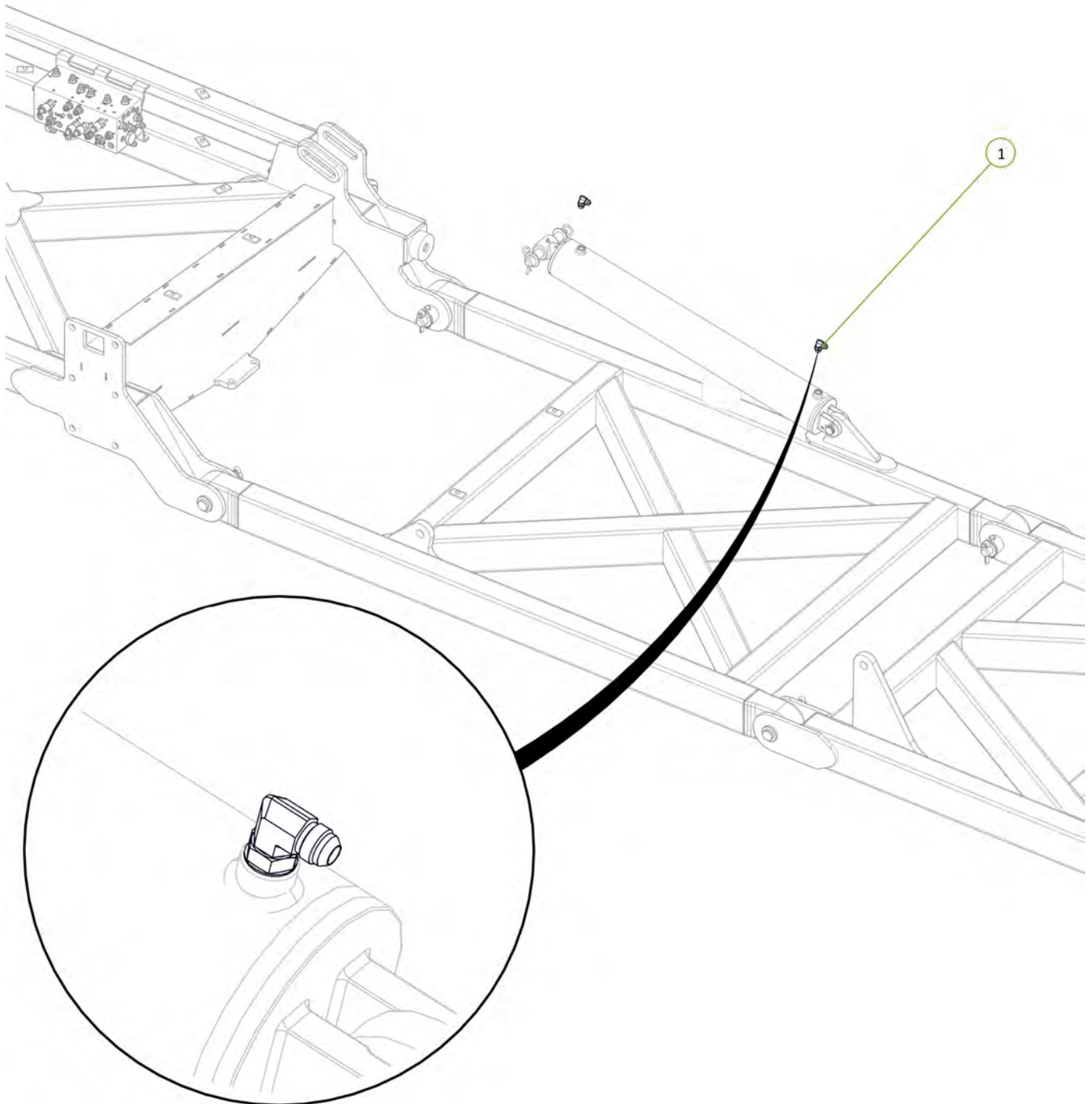


Item No.	Description	Qty	Number
1	5" Bore 36" Stroke 3 1/8" S/Tube 2" Rod Hydraulic Cylinder	1	0311-536ST

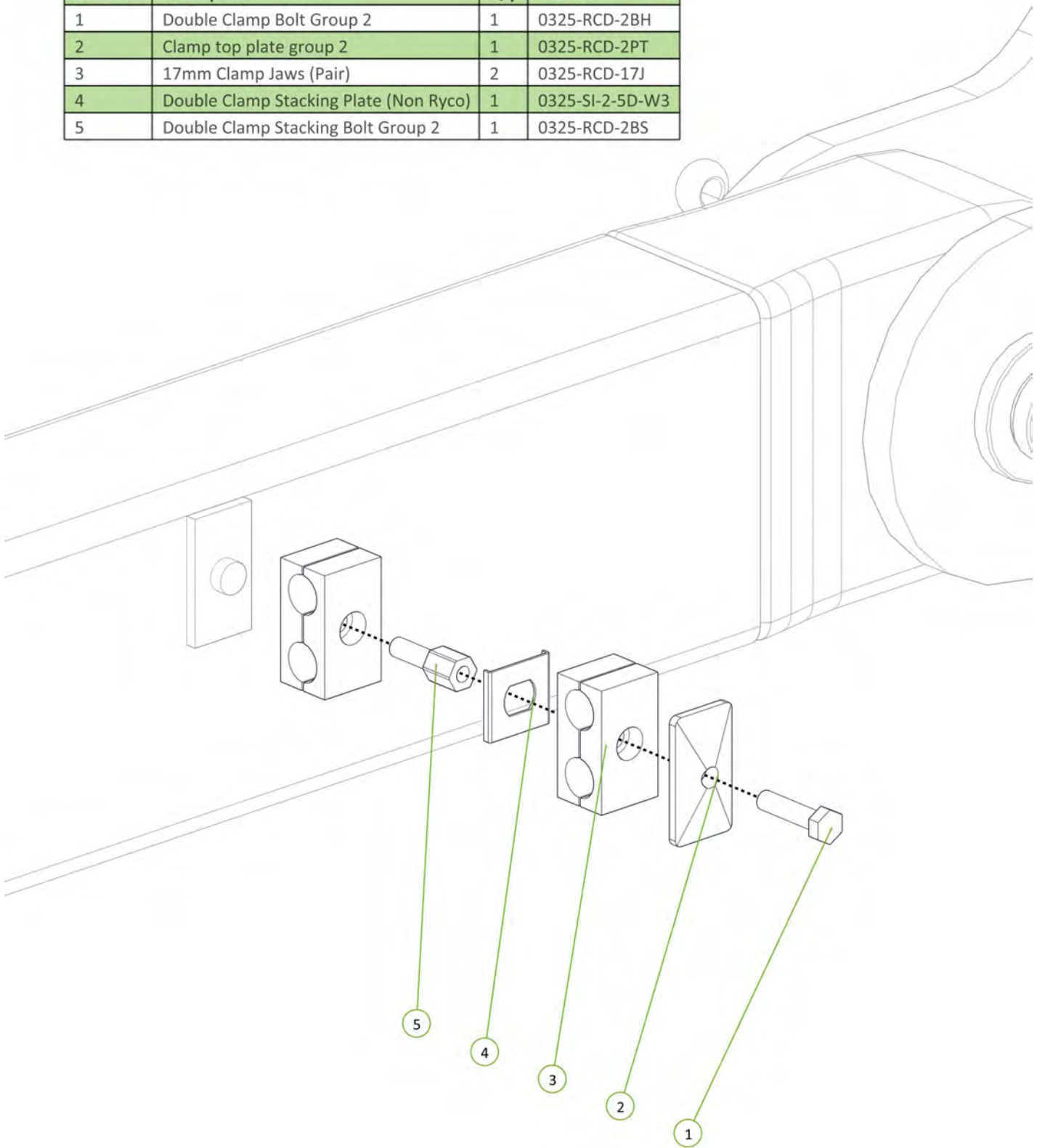




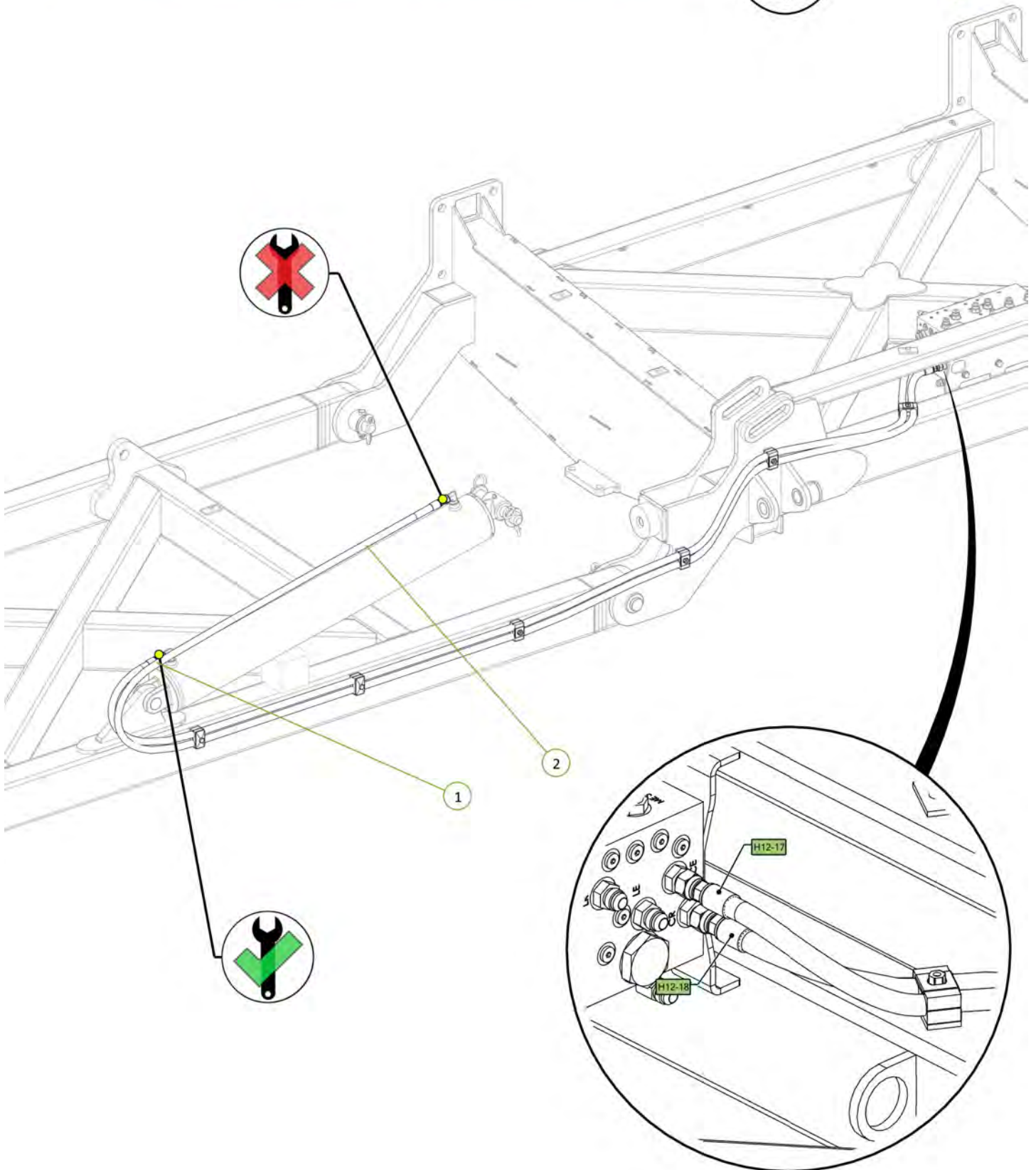
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212



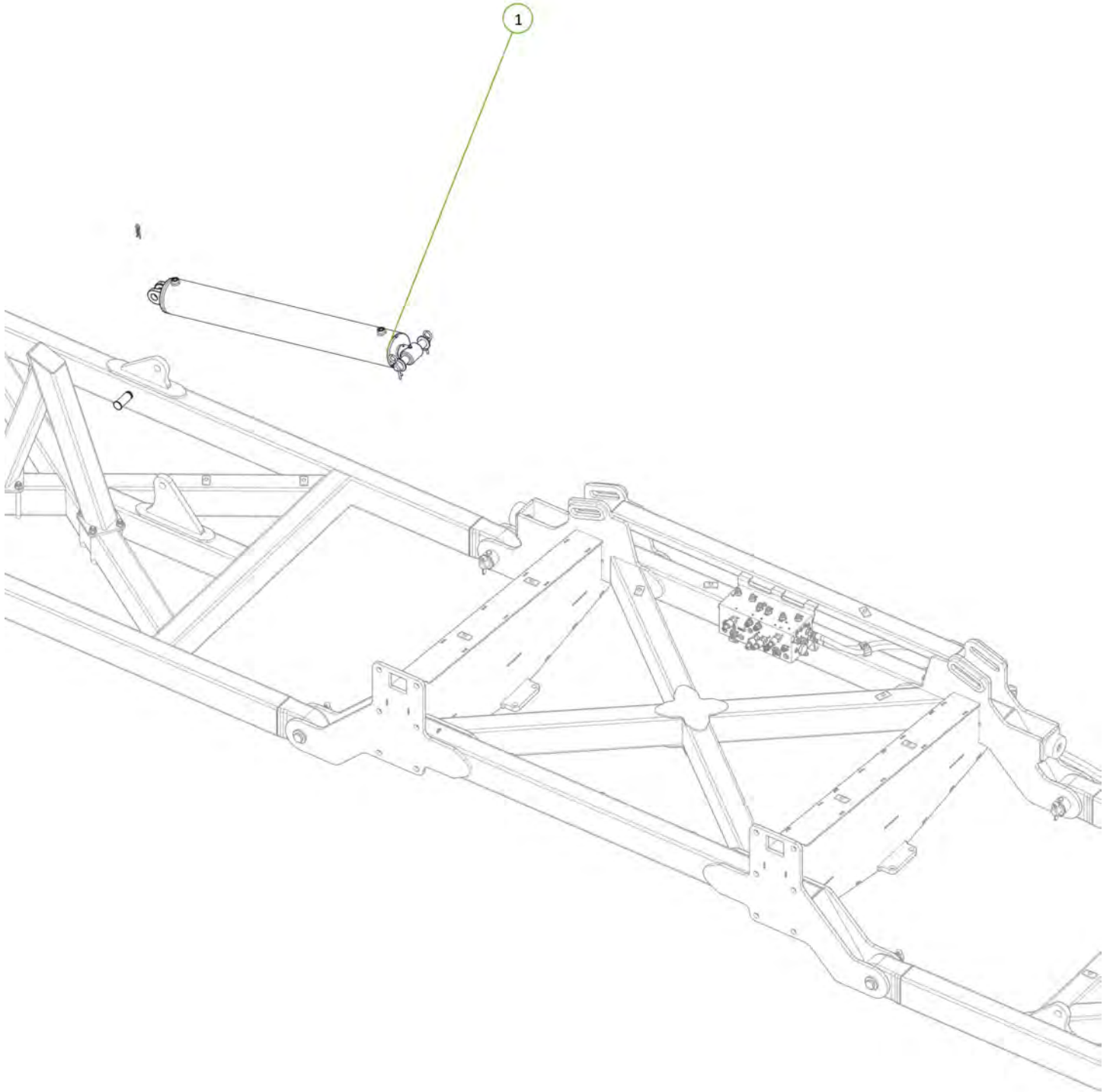
Item No.	Description	Qty	Number
1	Double Clamp Bolt Group 2	1	0325-RCD-2BH
2	Clamp top plate group 2	1	0325-RCD-2PT
3	17mm Clamp Jaws (Pair)	2	0325-RCD-17J
4	Double Clamp Stacking Plate (Non Ryco)	1	0325-SI-2-5D-W3
5	Double Clamp Stacking Bolt Group 2	1	0325-RCD-2BS

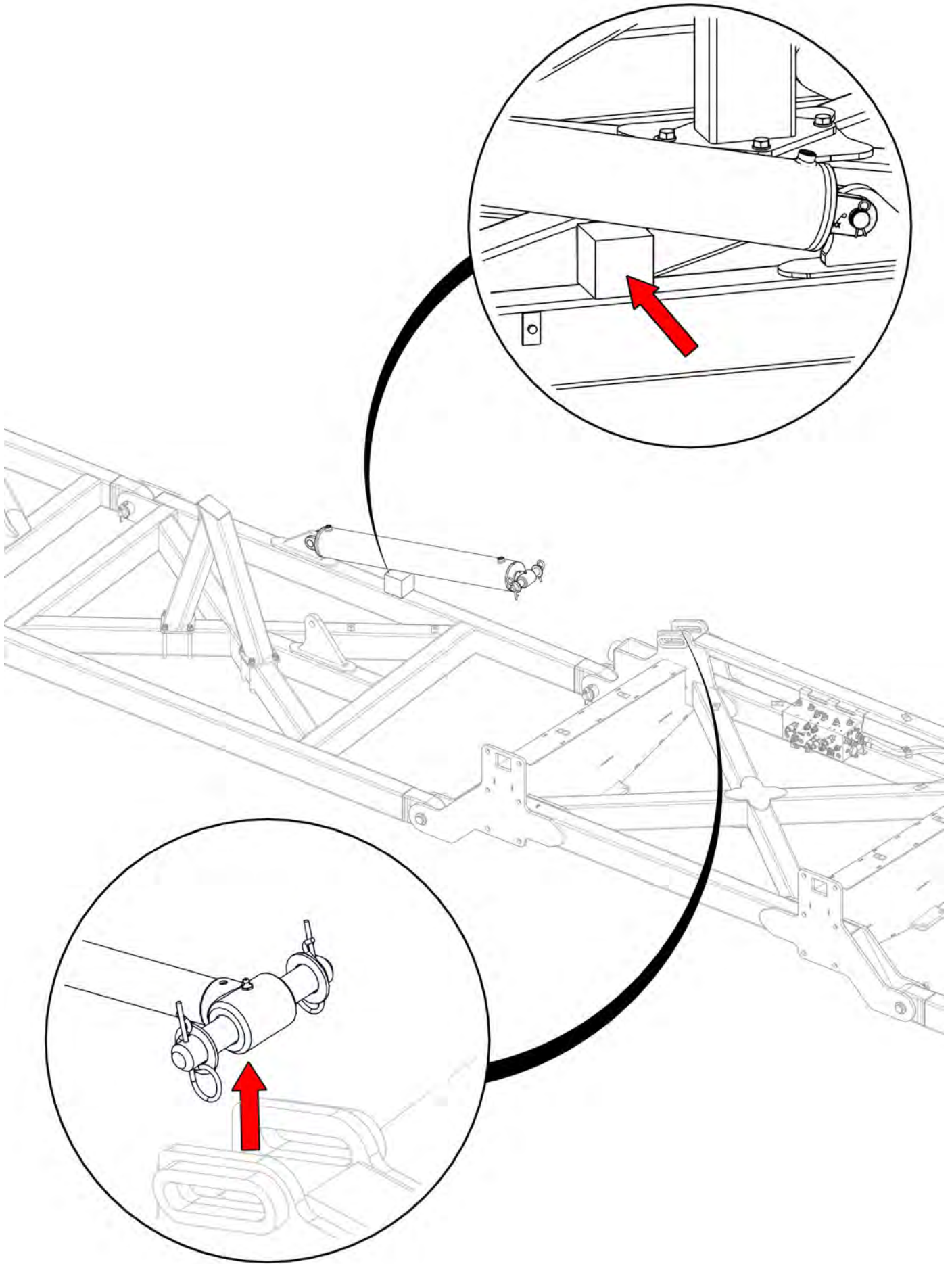


Item No.	Description	Qty	Number
1	Left CE Port to LH Main Wing Cylinder Extend Port	1	H12-17
2	Left CR Port to LH Main Wing Cylinder Retract Port	1	H12-18

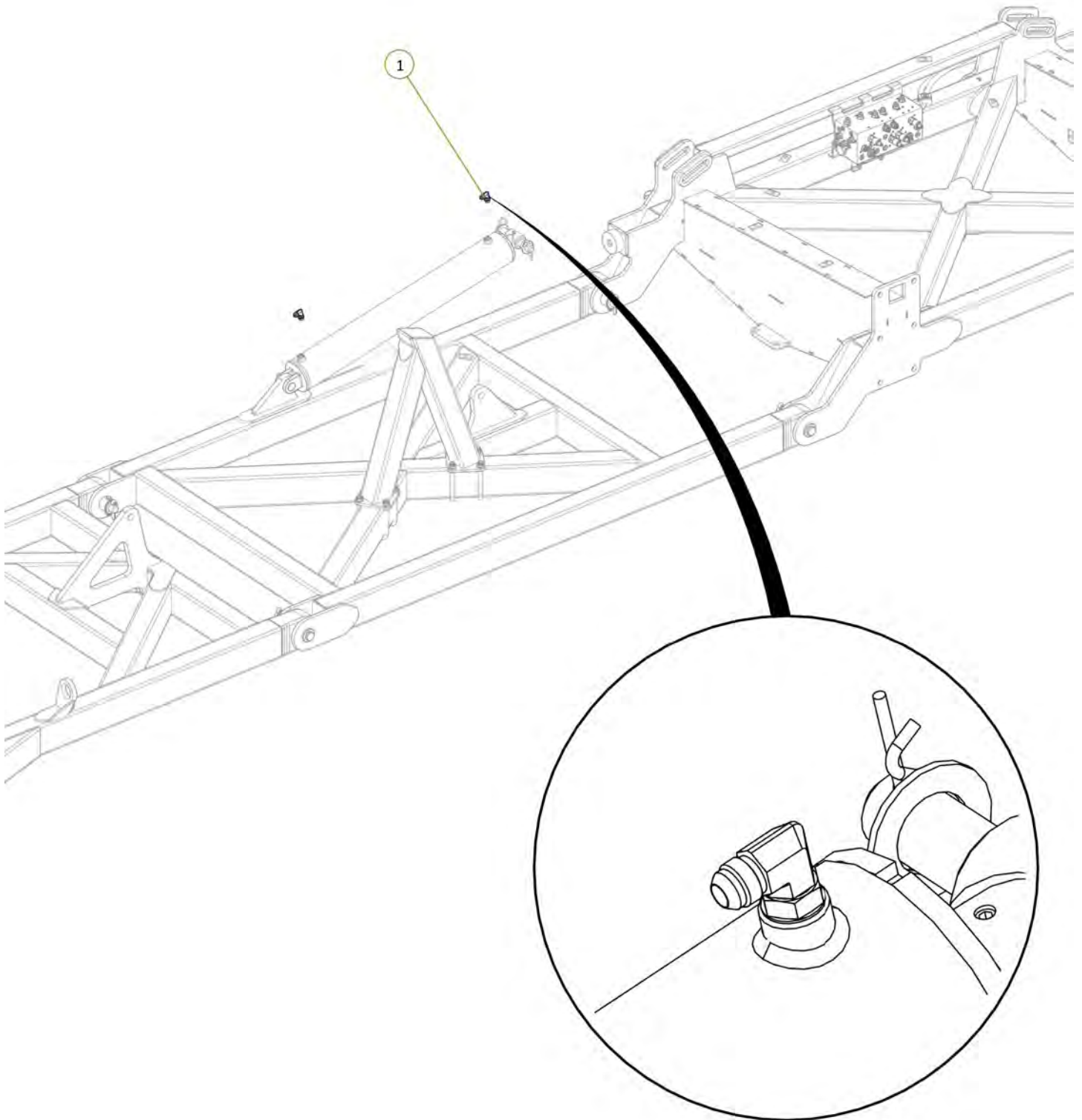


Item No.	Description	Qty	Number
1	5" Bore 36" Stroke 3 1/8" S/Tube 2" Rod Hydraulic Cylinder	1	0311-536ST

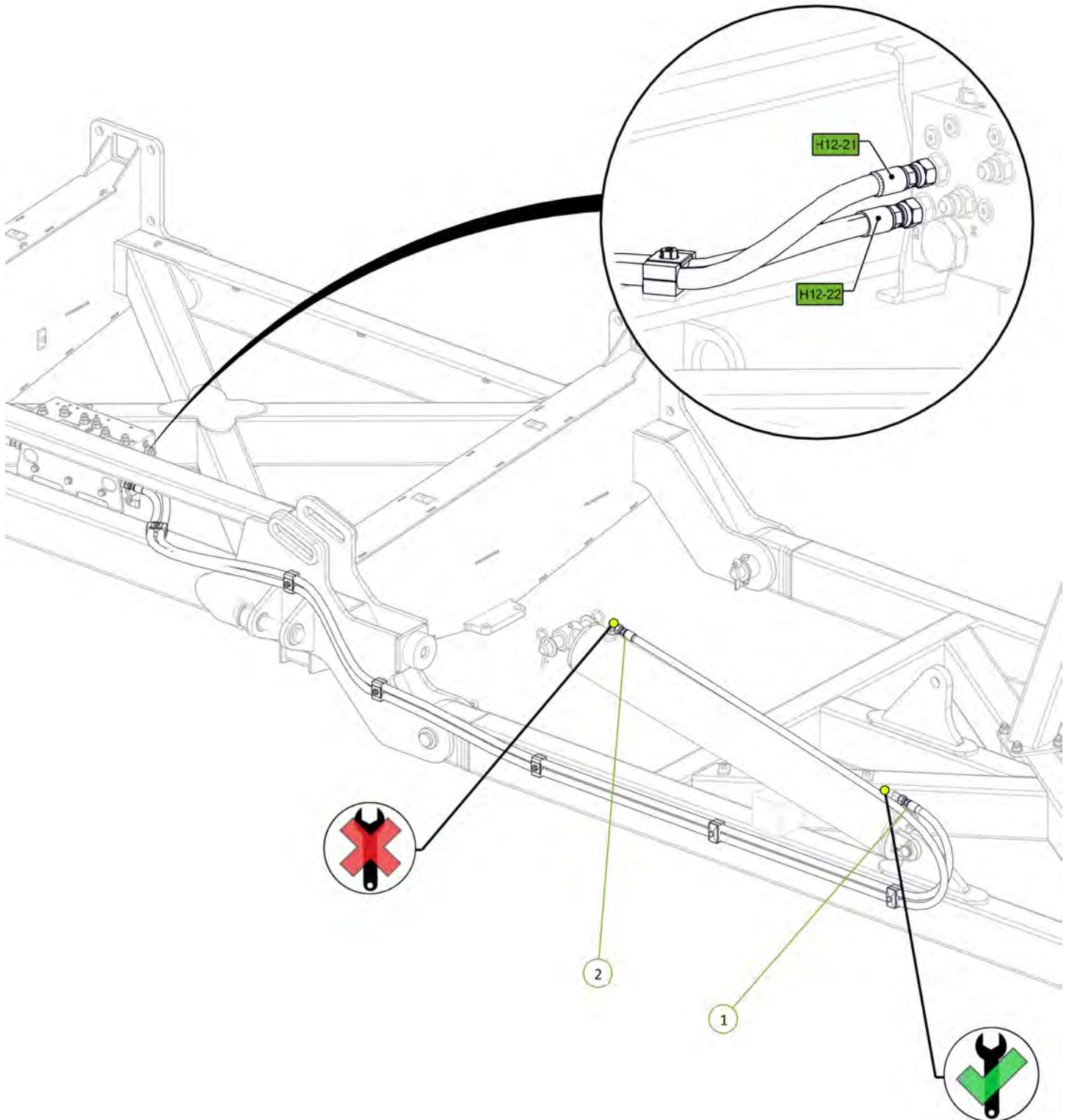




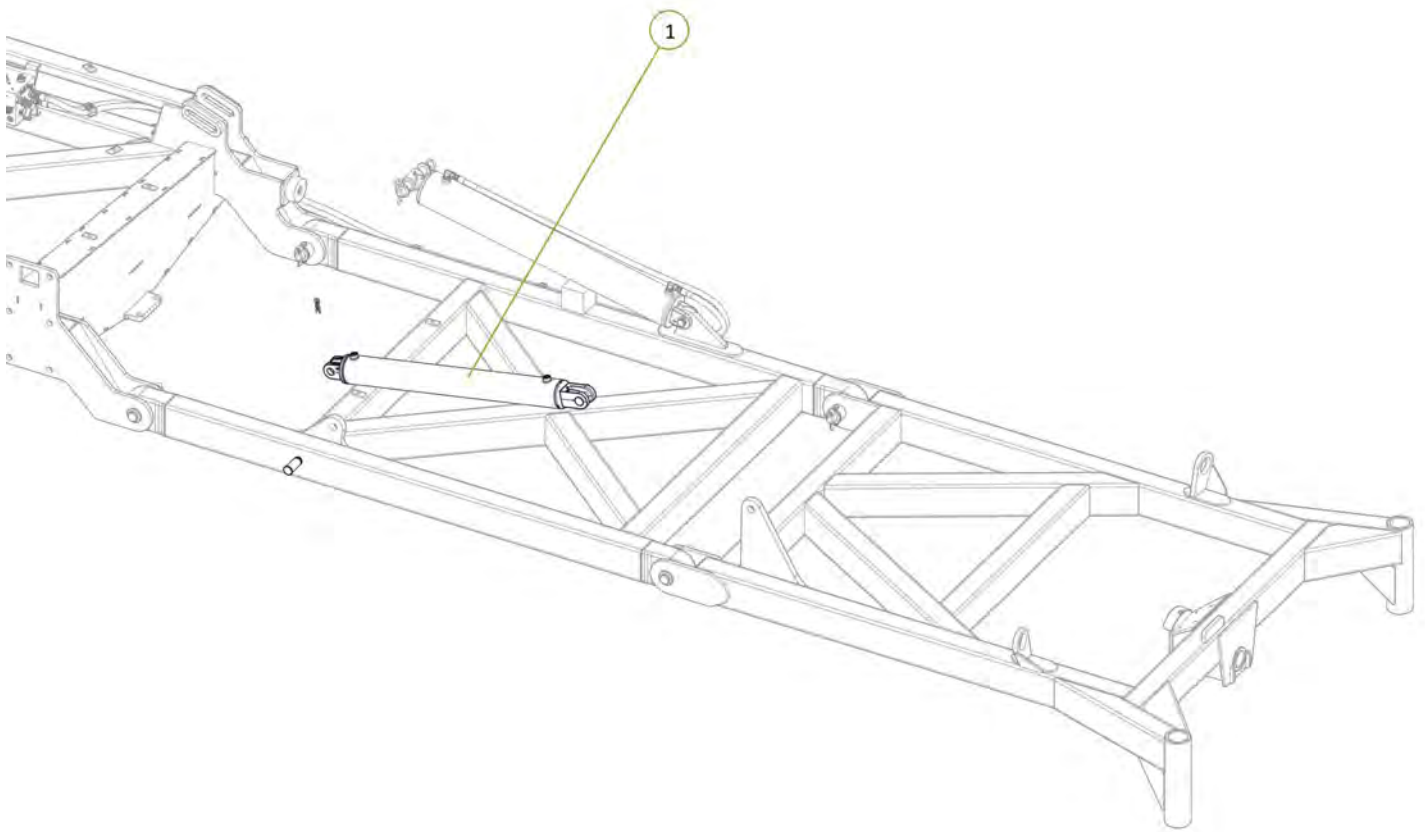
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212

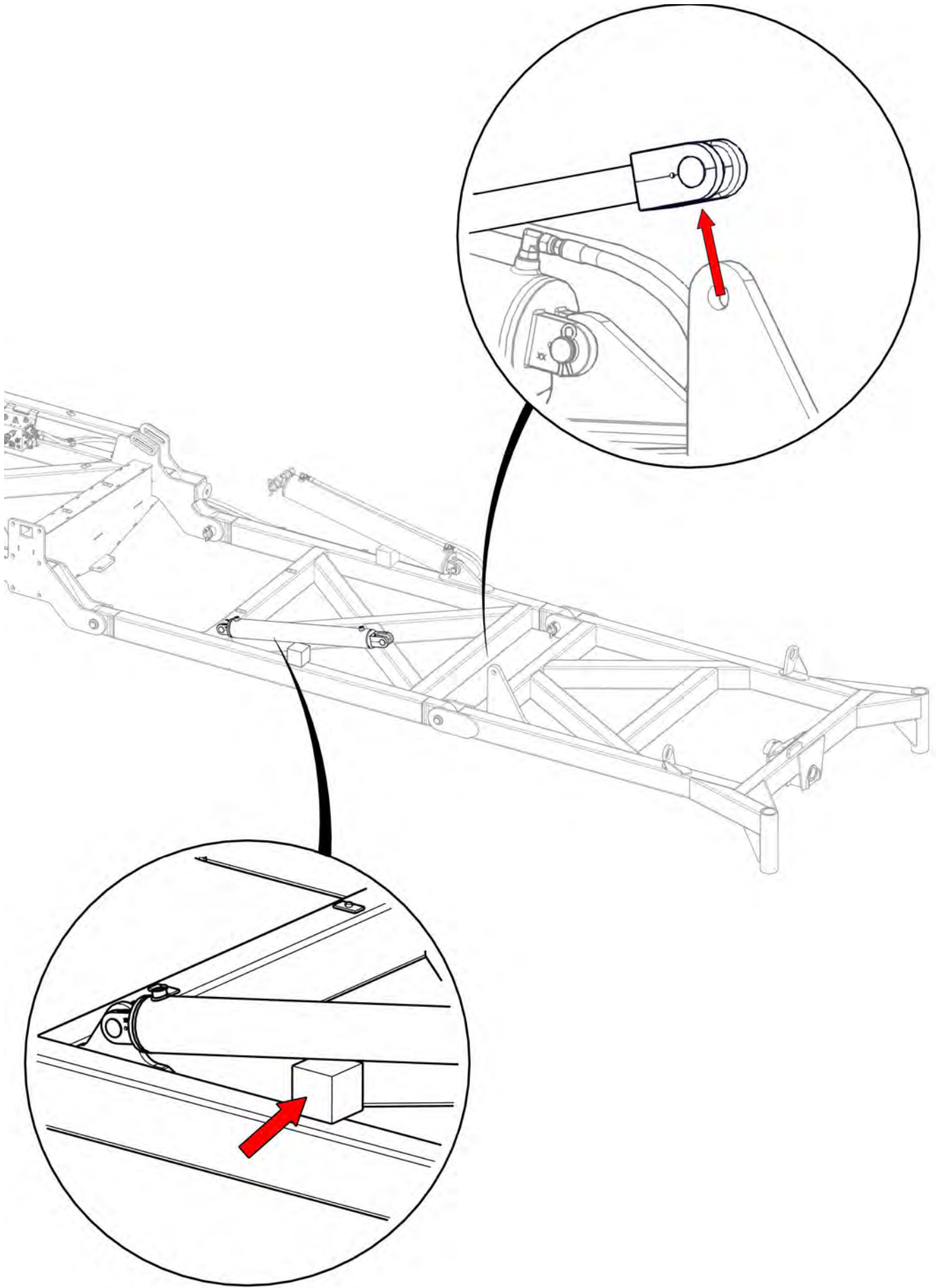


Item No.	Description	Qty	Number
1	Right CE Port to RH Main Wing Cylinder Extend Port	1	H12-21
2	Right CR Port to RH Main Wing Cylinder Retract Port	1	H12-22

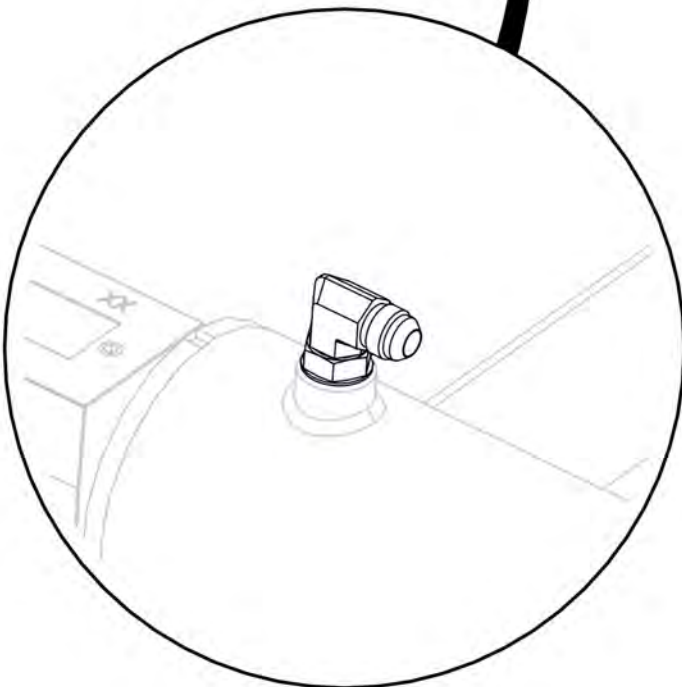
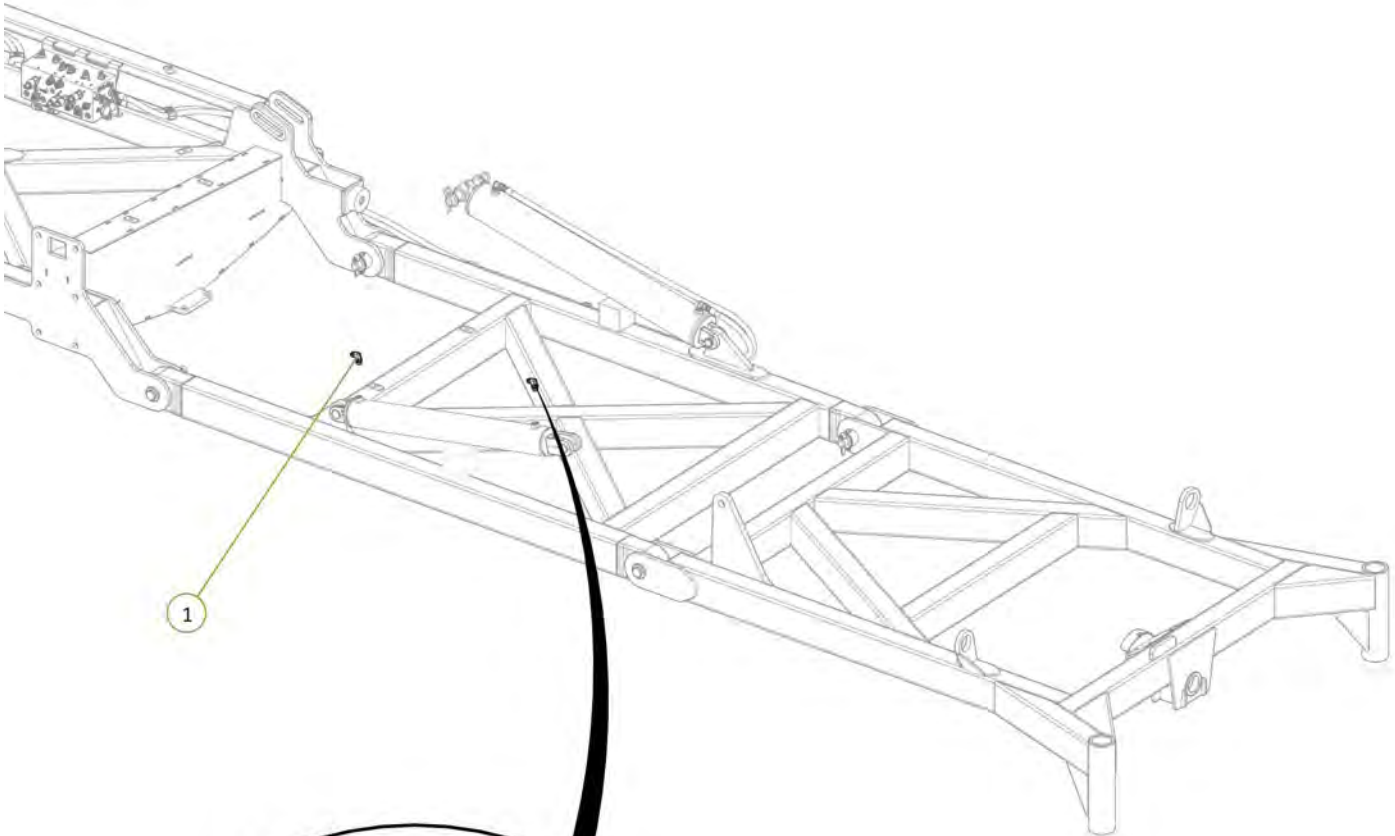


Item No.	Description	Qty	Number
1	4" Bore 30" Stroke 3" S/Tube 1.75" Rod Hydraulic Cylinder with Stop Tube & Clevis	1	0311-430ST-C2

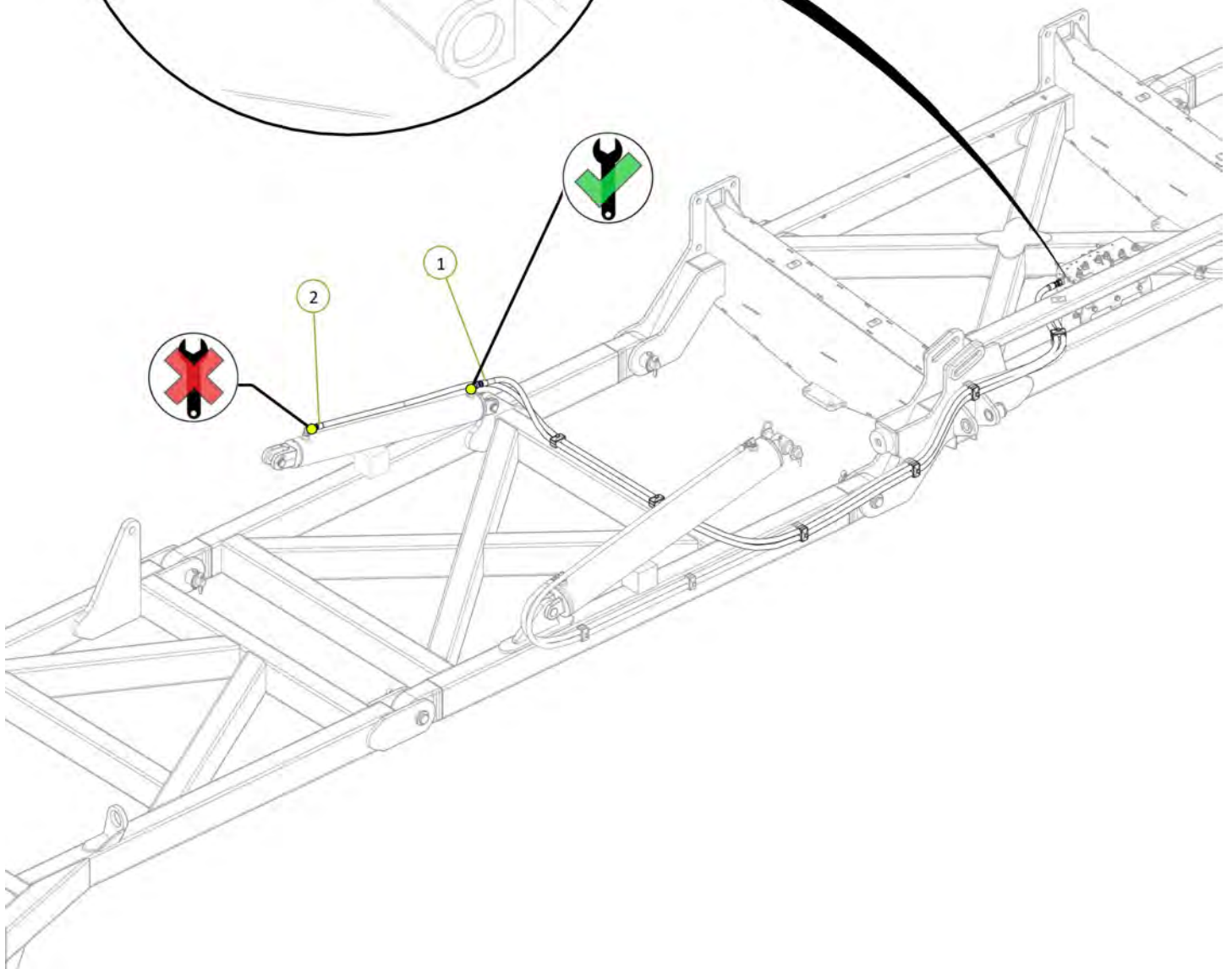
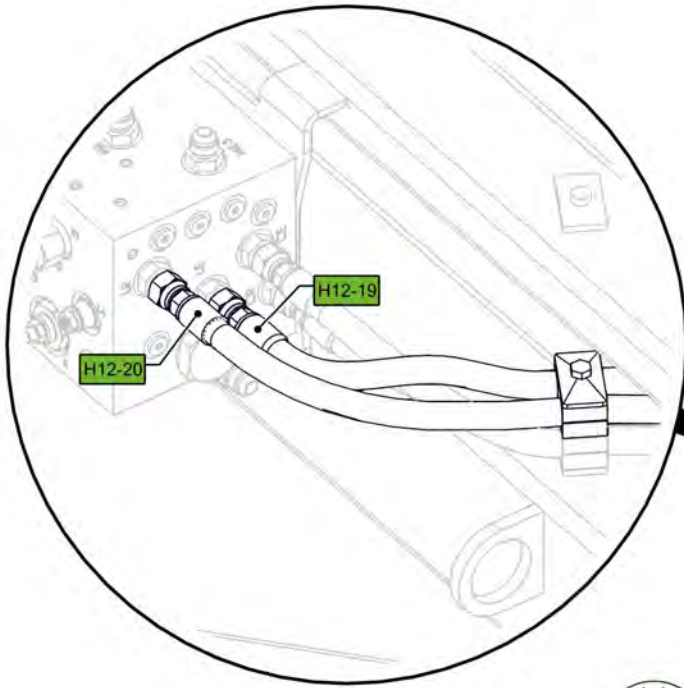




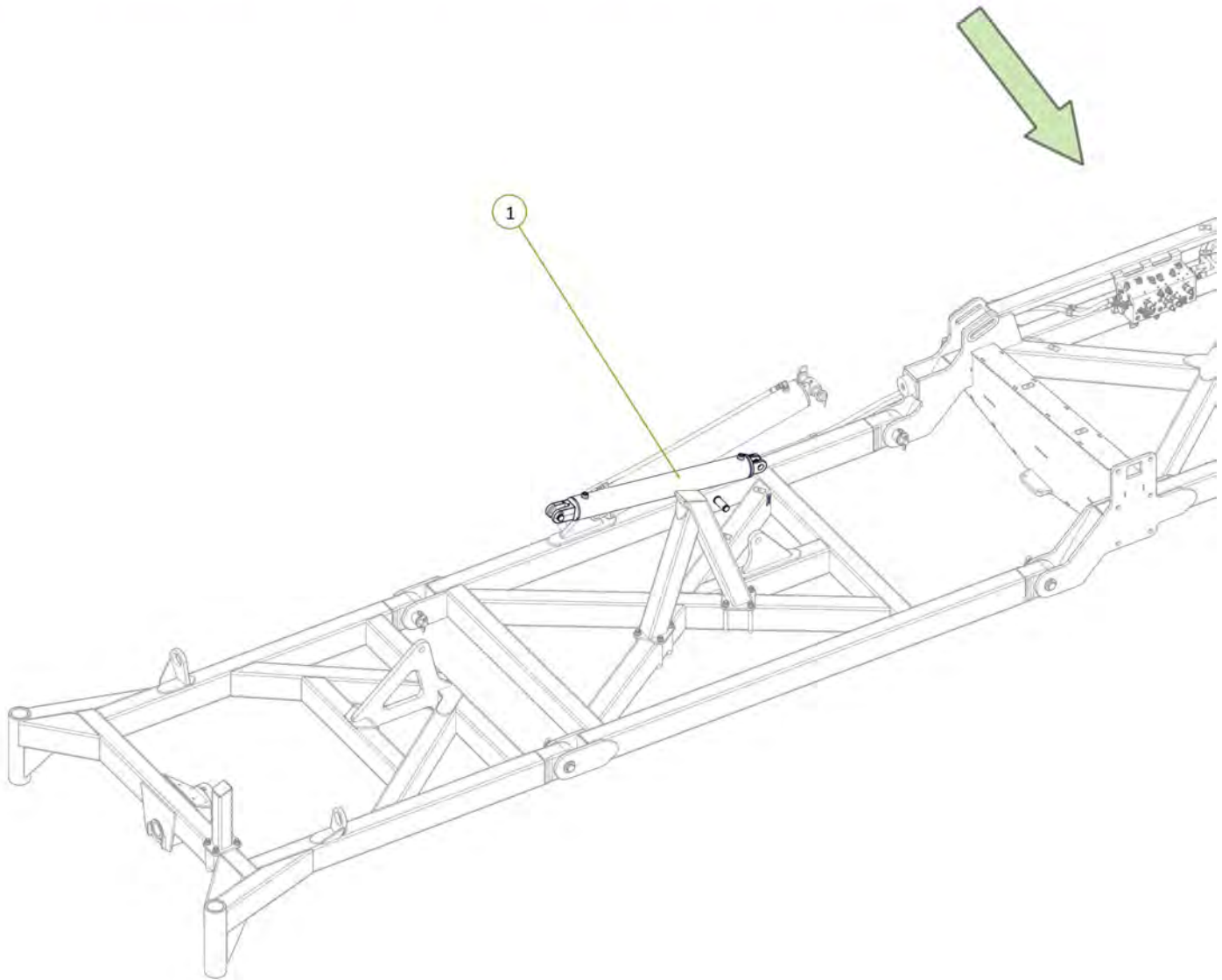
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212

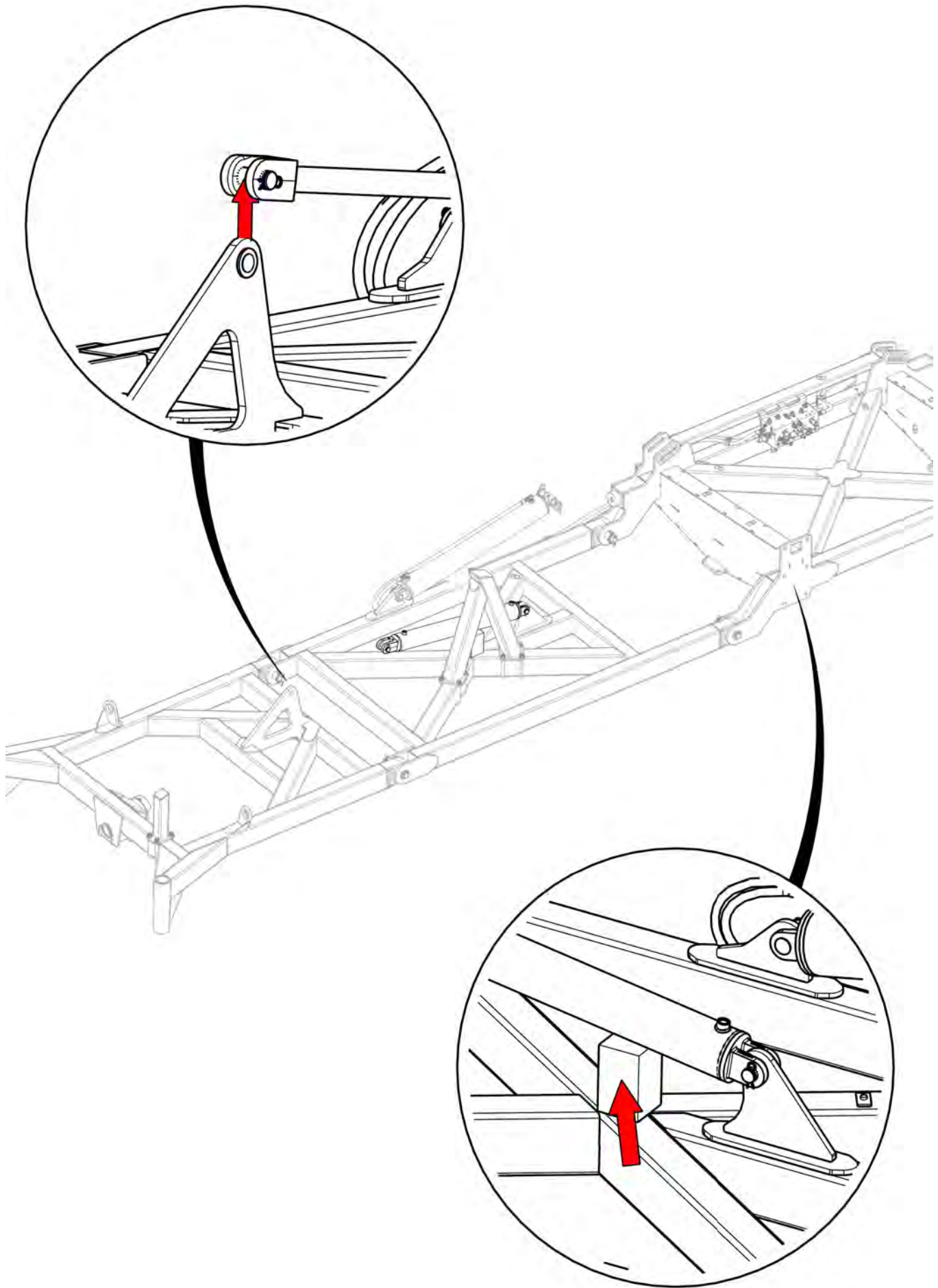


Item No.	Description	Qty	Number
1	LE Port to LH Outer Wing Cylinder Extend Port	1	H12-19
2	LR Port to LH Outer Wing Cylinder Retract Port	1	H12-20

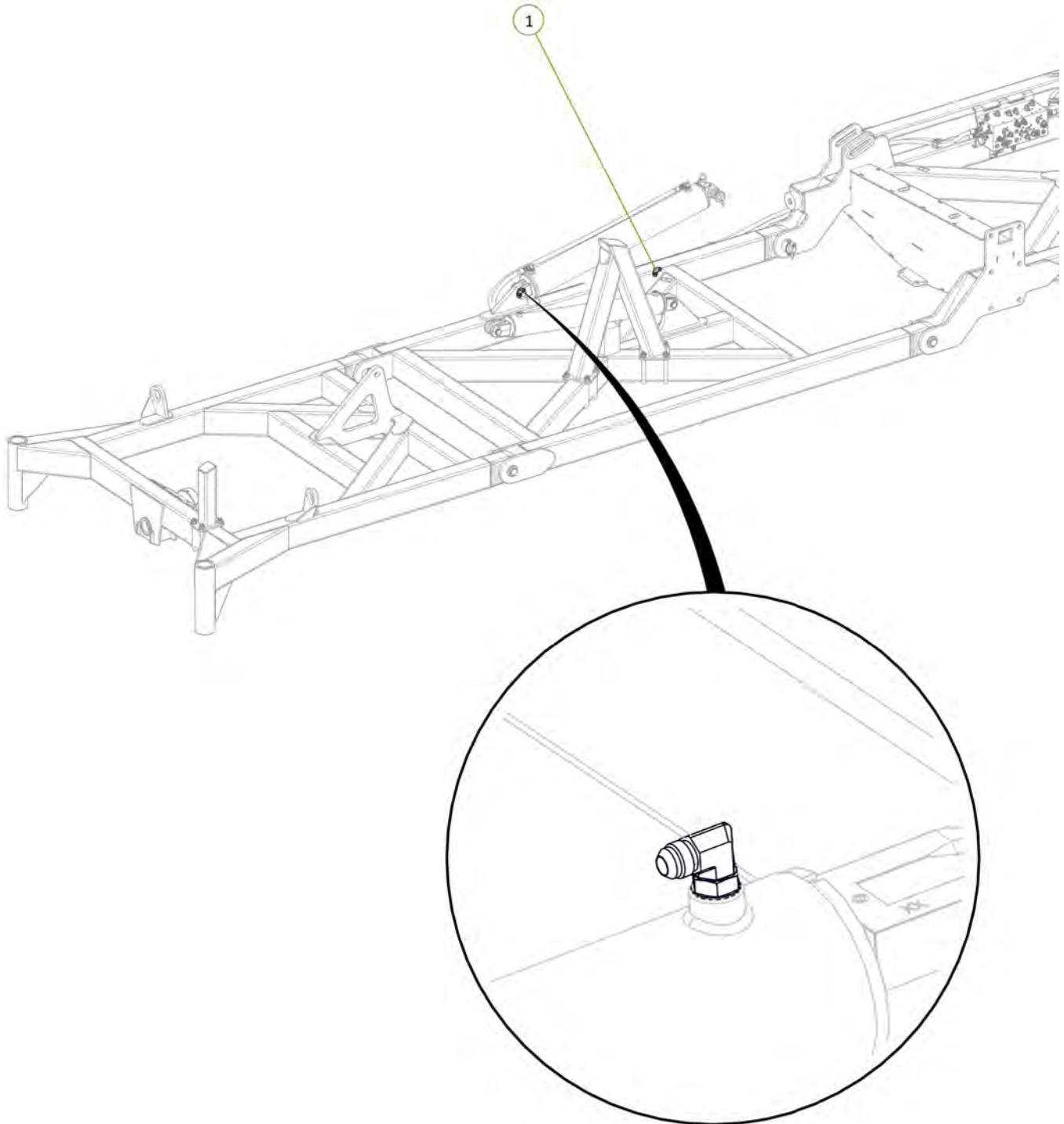
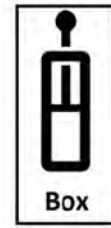


Item No.	Description	Qty	Number
1	4" Bore 30" Stroke 3" S/Tube 1.75" Rod Hydraulic Cylinder with Stop Tube & Clevis	1	0311-430ST-C2

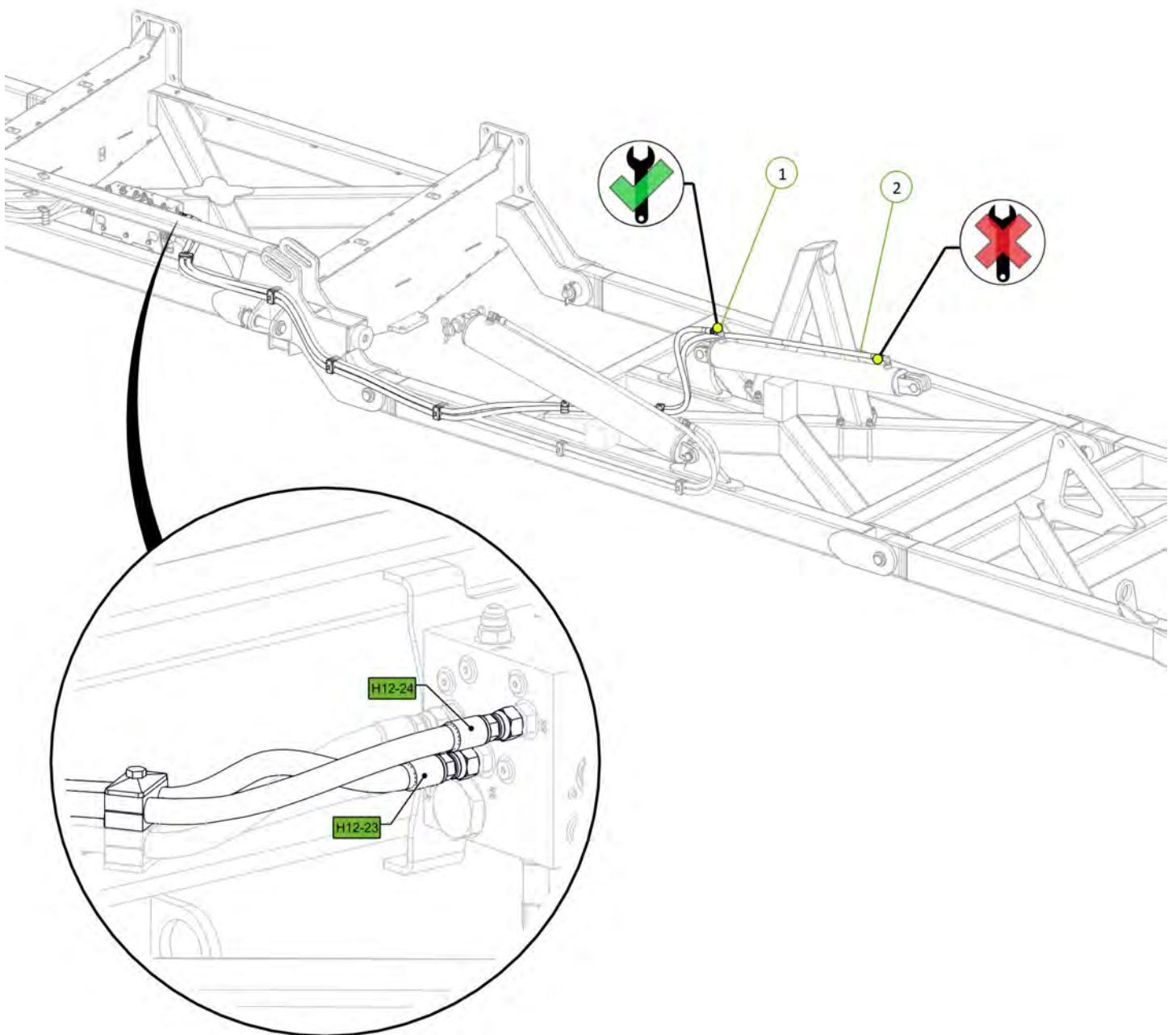




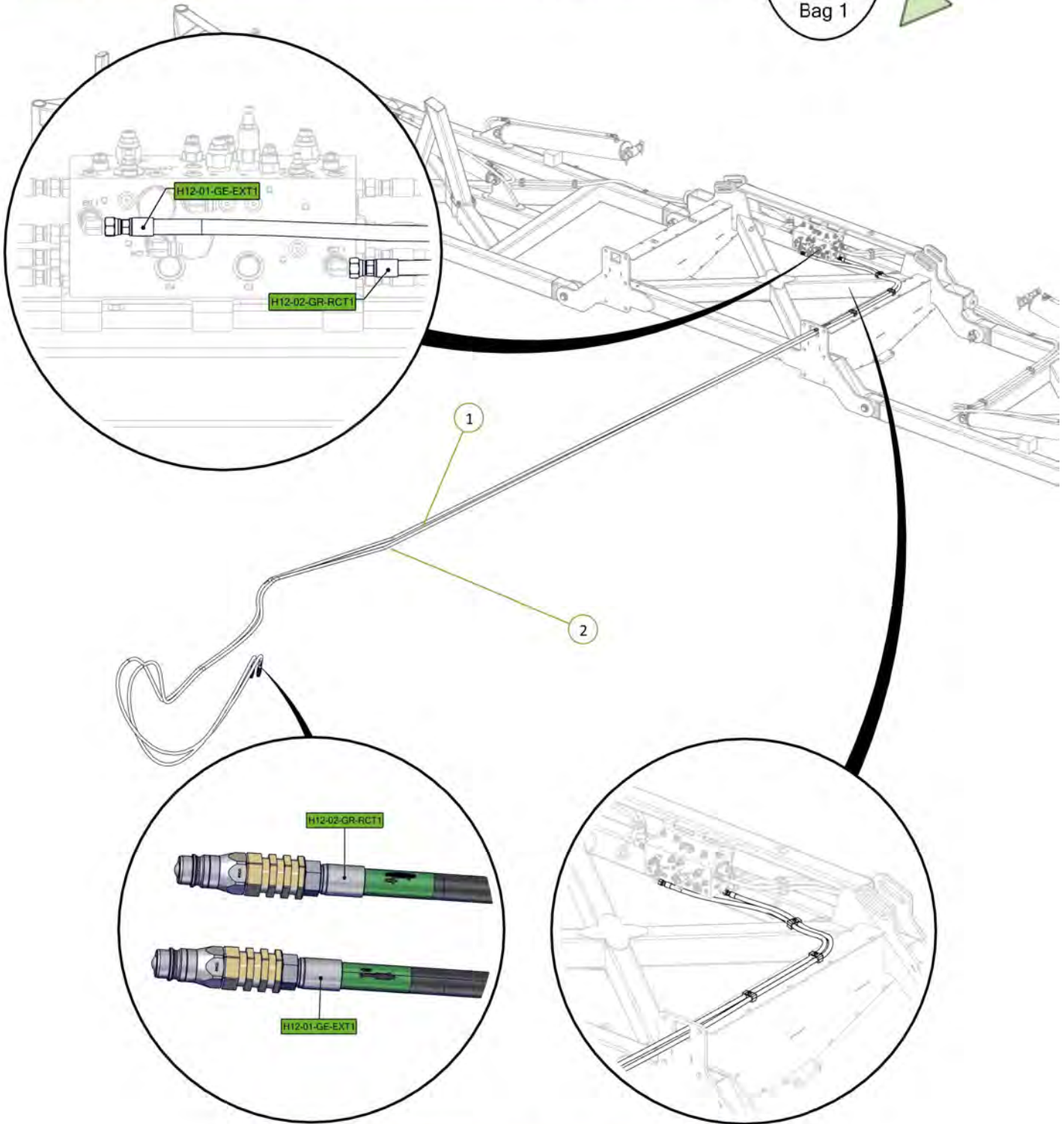
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212



Item No.	Description	Qty	Number
1	RE Port to RH Outer Wing Cylinder Extend Port	1	H12-23
2	RR Port to RH Outer Wing Cylinder Retract Port	1	H12-24



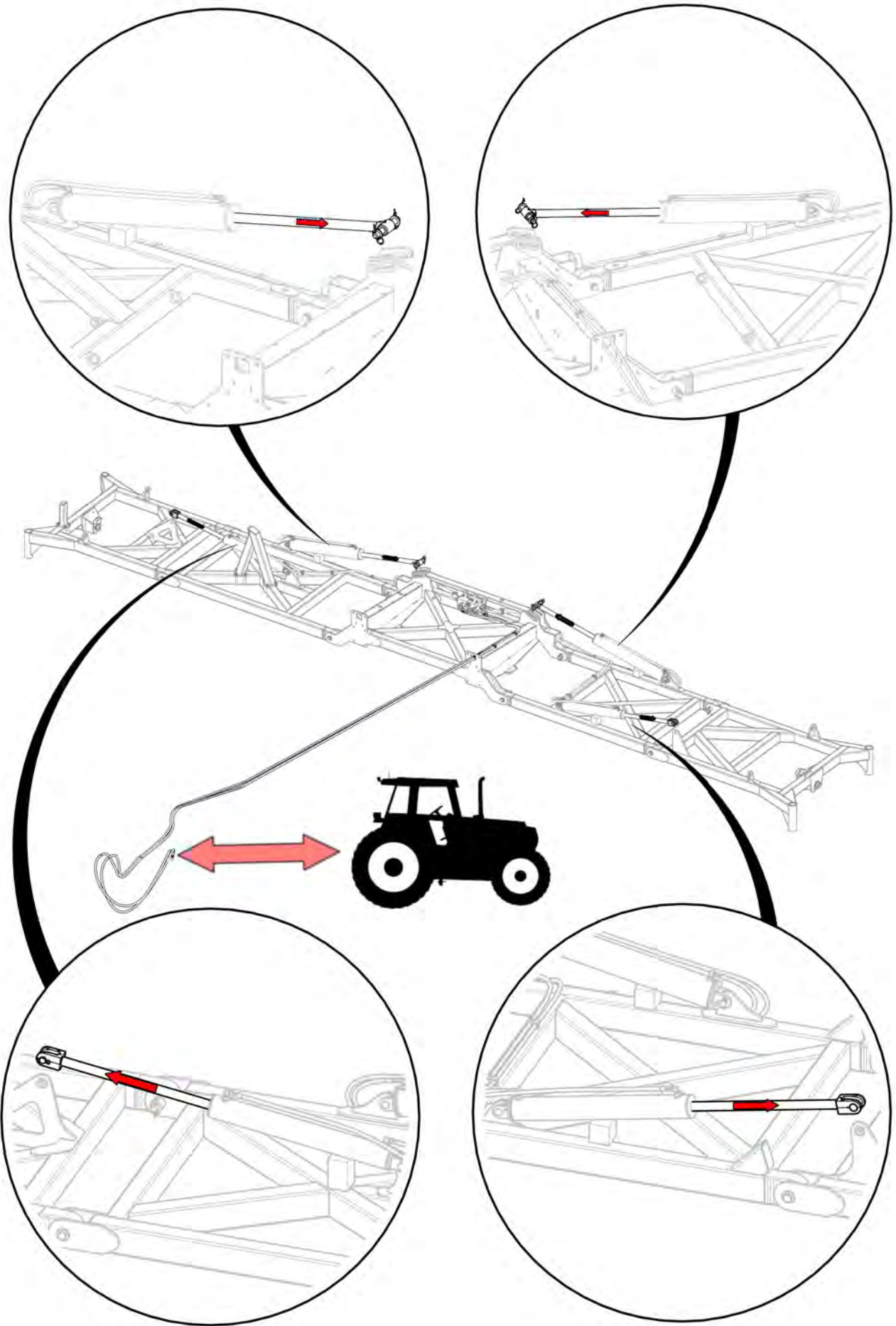
Item No.	Description	Qty	Number
1	Tractor to Sequence Valve EXT1 Port Fitted With Green EXT Decal	1	H12-01-GE-EXT1
2	Tractor to Sequence Valve RCT1 Port Fitted With Green RET Decal	1	H12-02-GR-RCT1

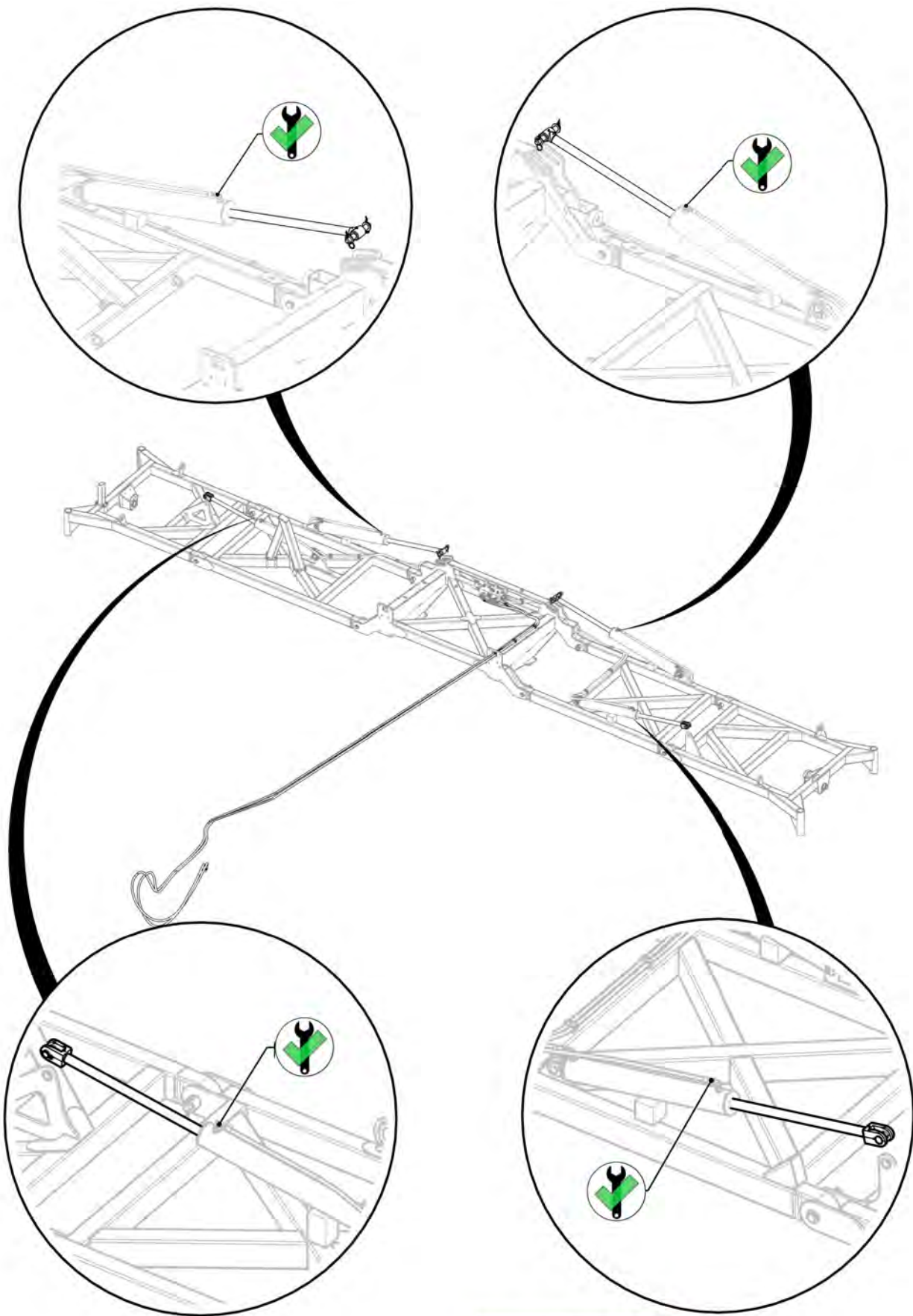


All retract hose fittings loose to allow air to escape

All cylinders chocked up to prevent clash during extend

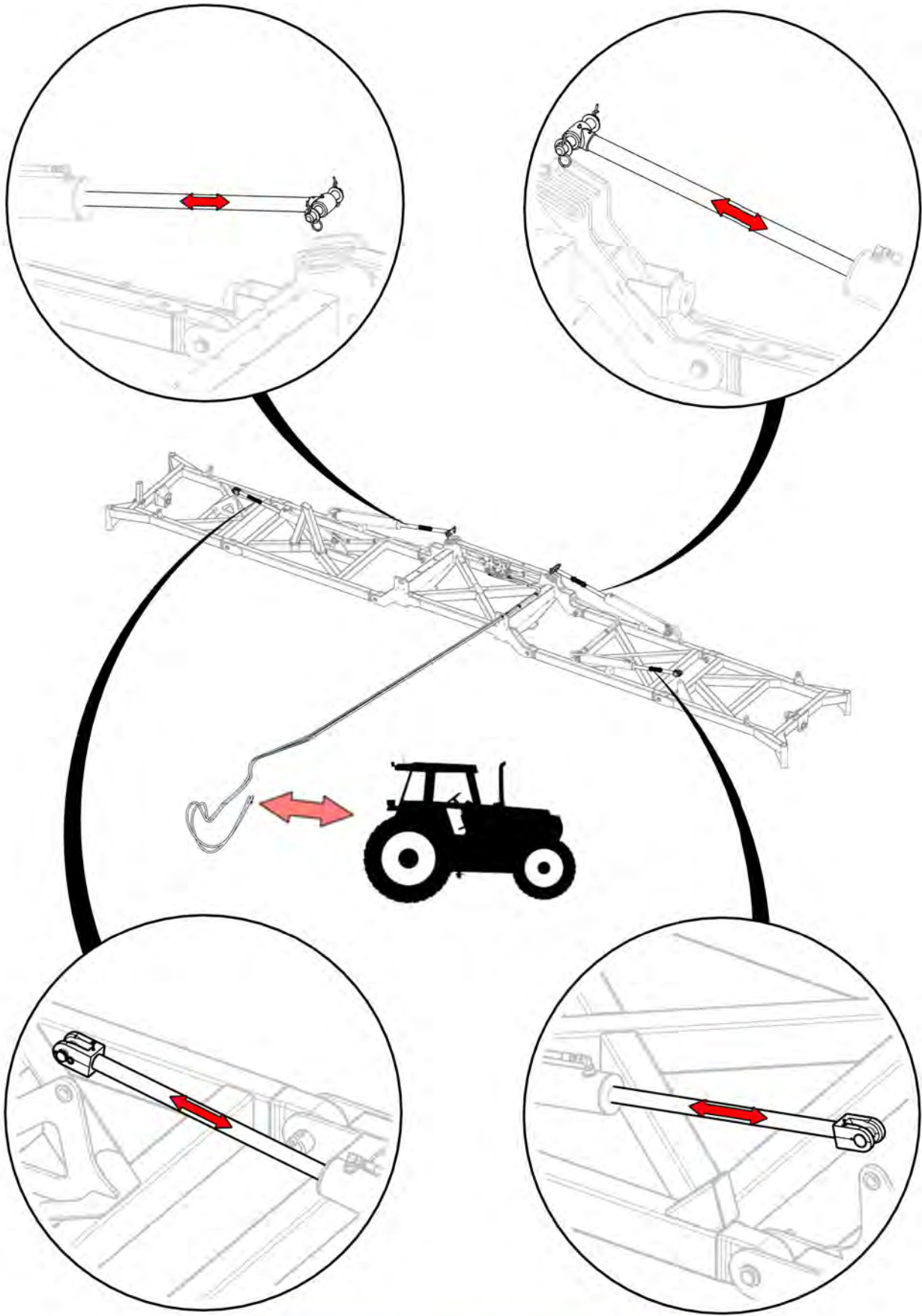
Signed _____ Date ____/____/____
 Unit Serial Number _____





Retract fittings tightened

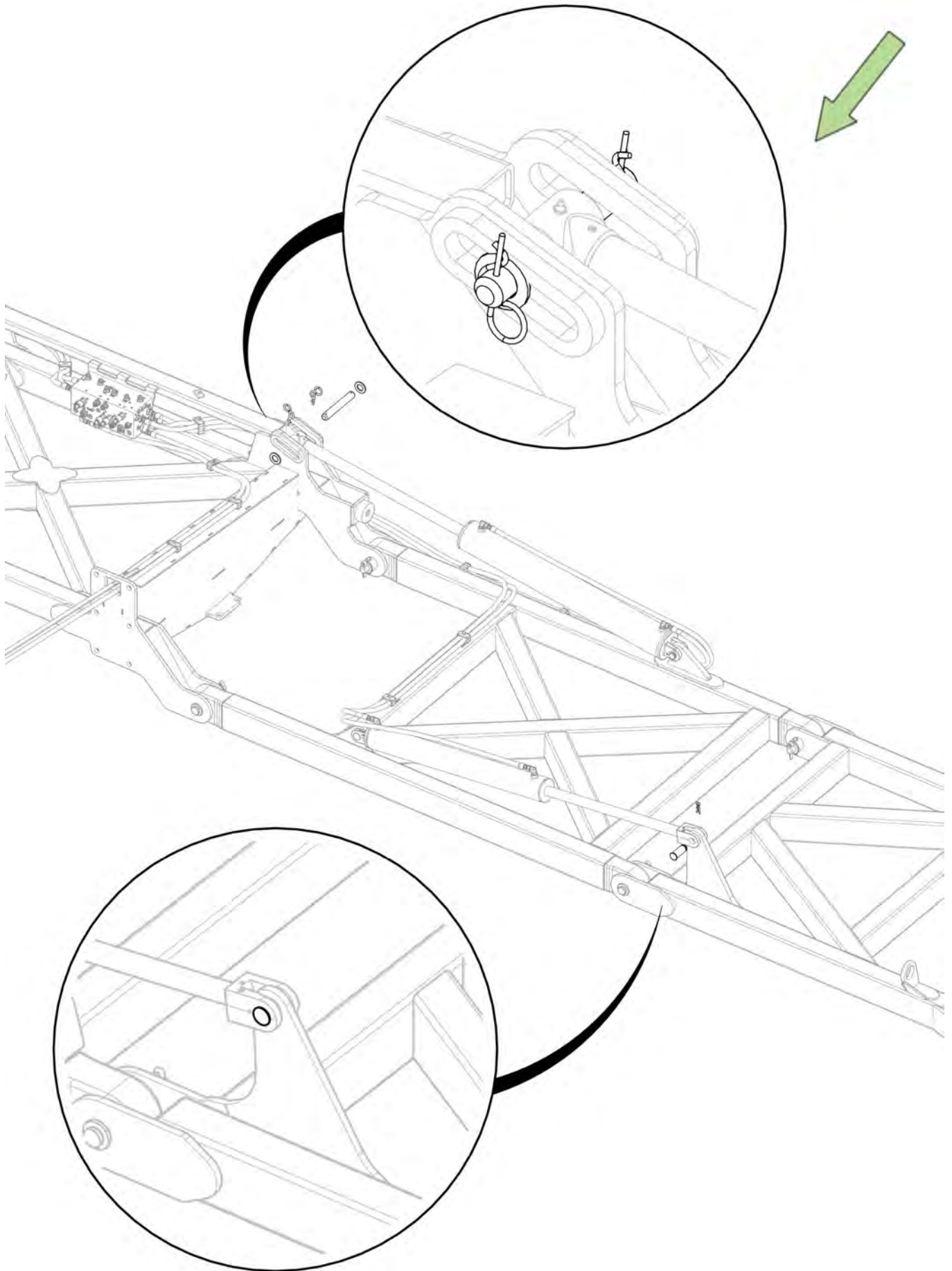
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Unit Serial Number _____

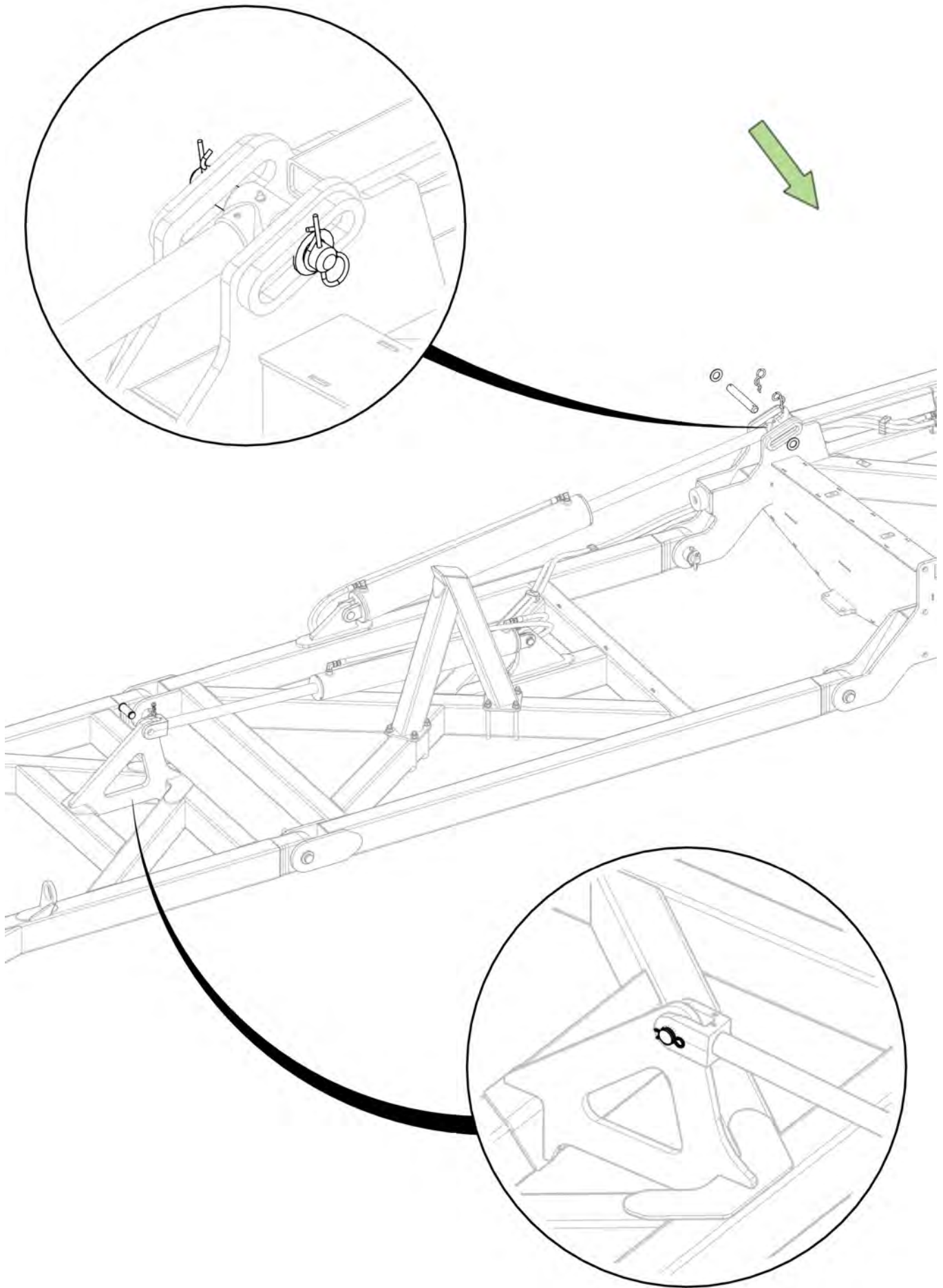


Cylinders cycled to expel air from system

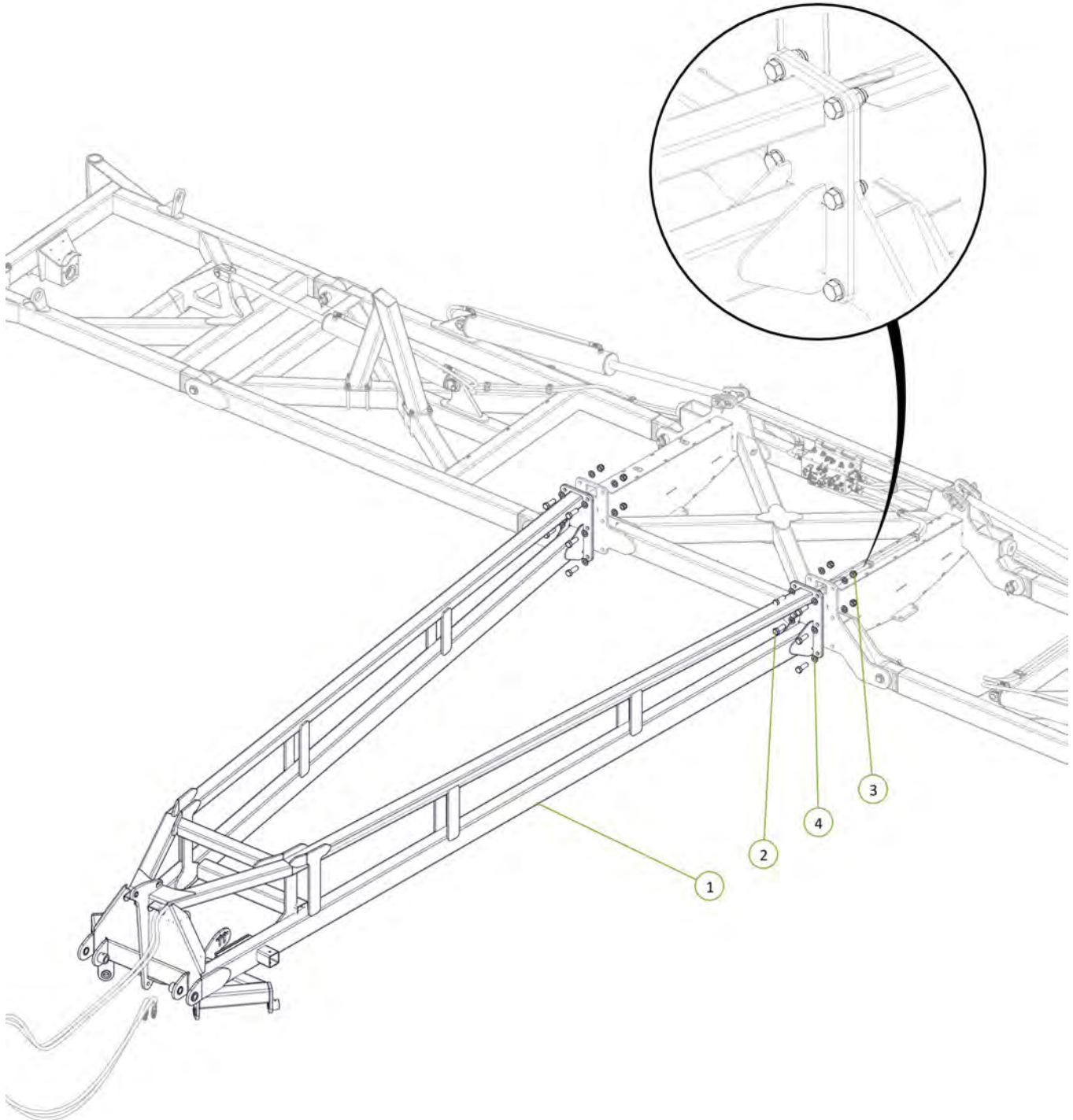


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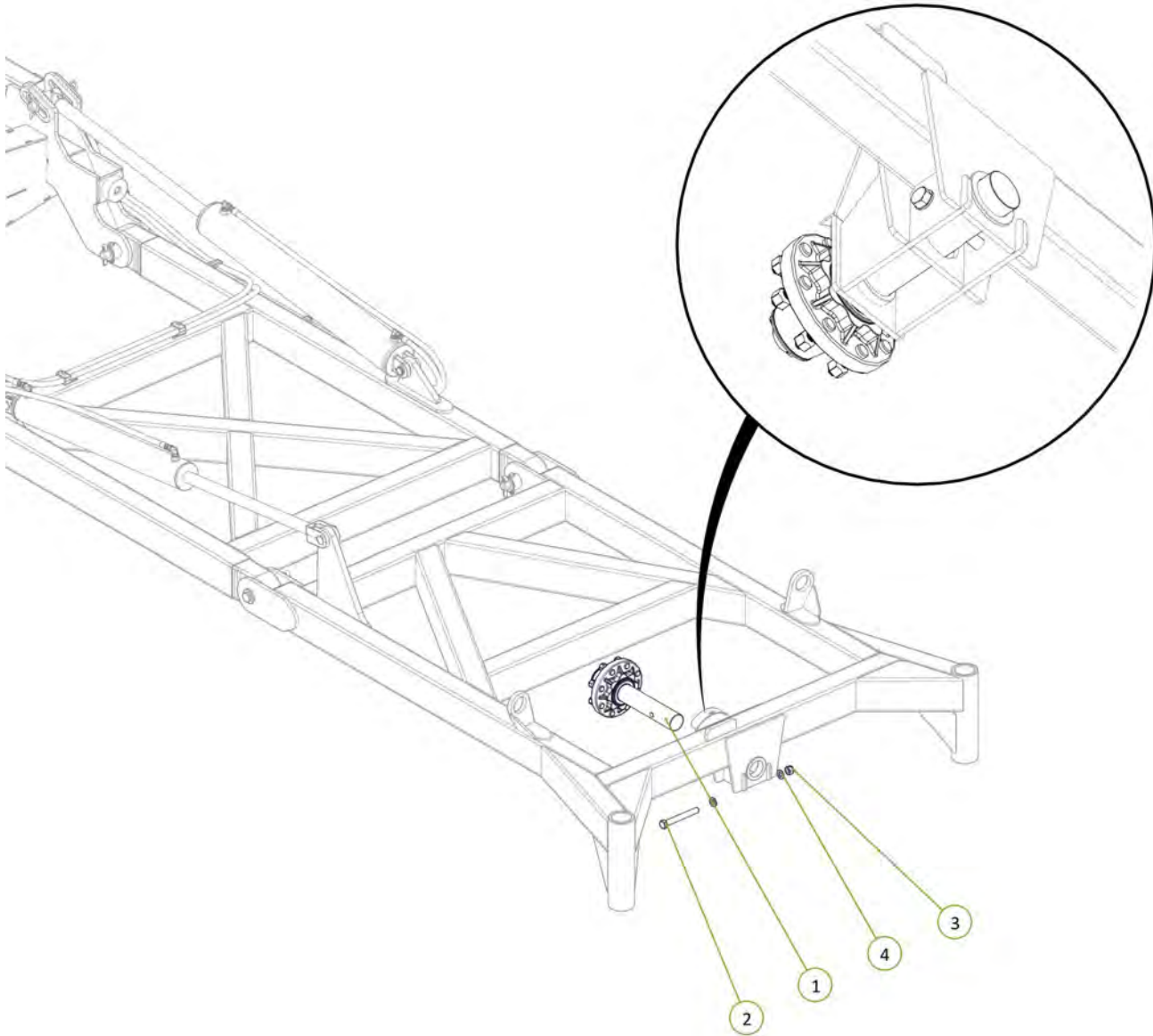




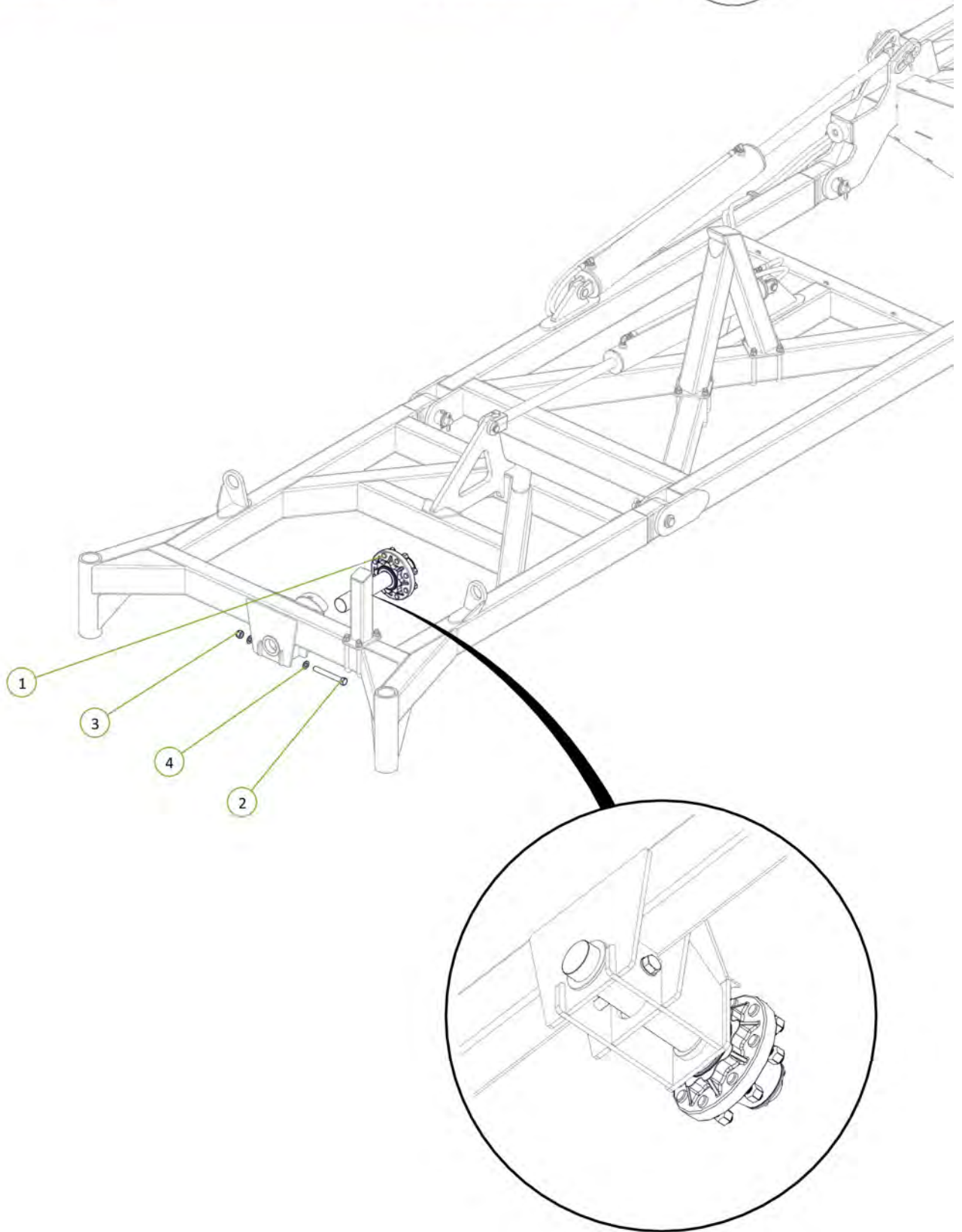
Item No.	Description	Qty	Number
1	40' Main Pull	1	1540-02
2	M24 x 75 grade 8.8 zp Bolt	12	0211-2475
3	Nyloc Nut M24	12	0221-NYL24
4	Washer Flat M24	24	0231-F24



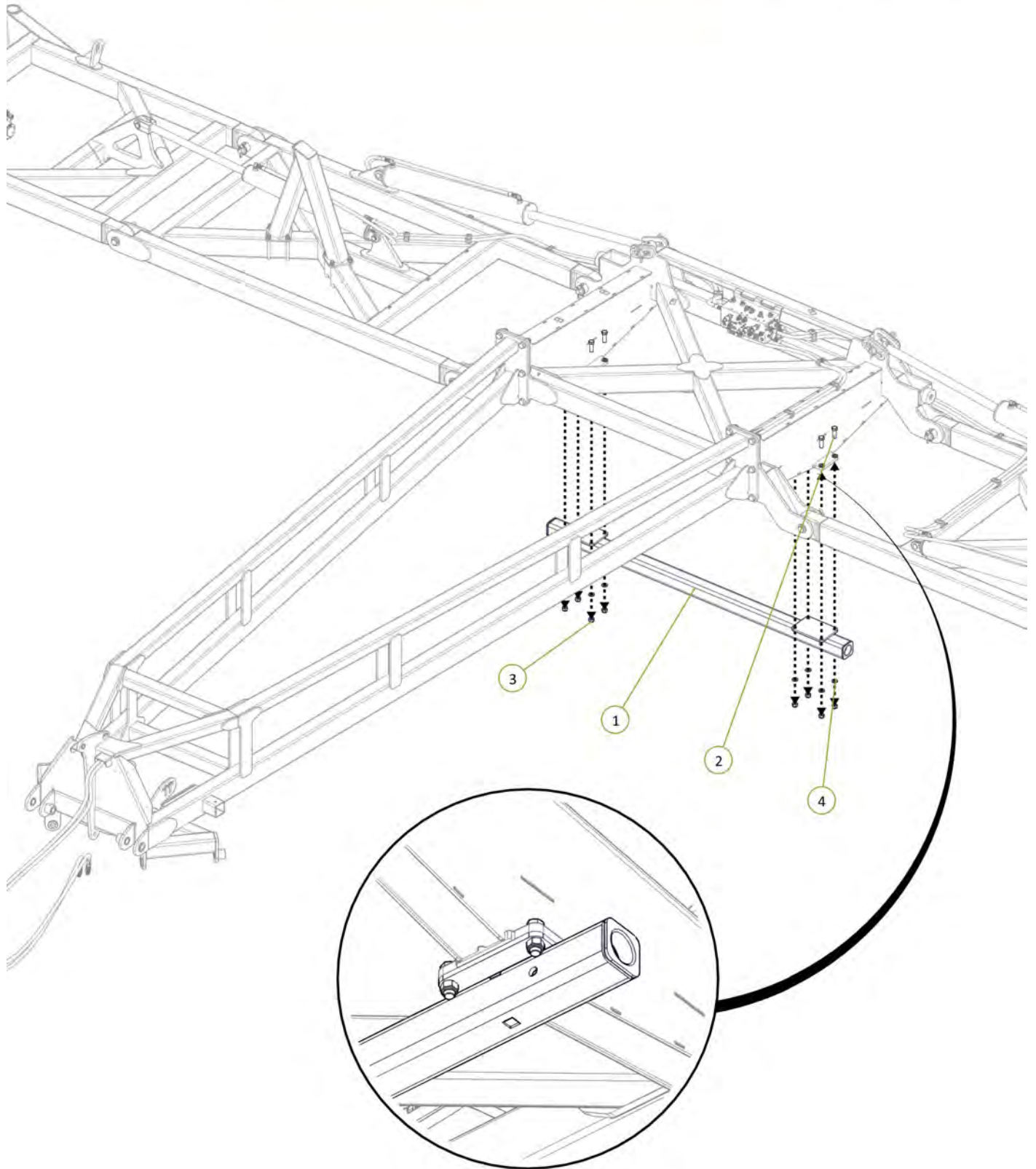
Item No.	Description	Qty	Number
1	2.75"R C/W 6 tonne 8 on 8" PCD Complete Assembly inc GS	1	0733-LG6080067
2	M20 x 170 grade 8.8 ZP Bolt	1	0211-20170
3	Nyloc Nut M20	1	0221-NYL20
4	Washer Flat M20	2	0231-F20



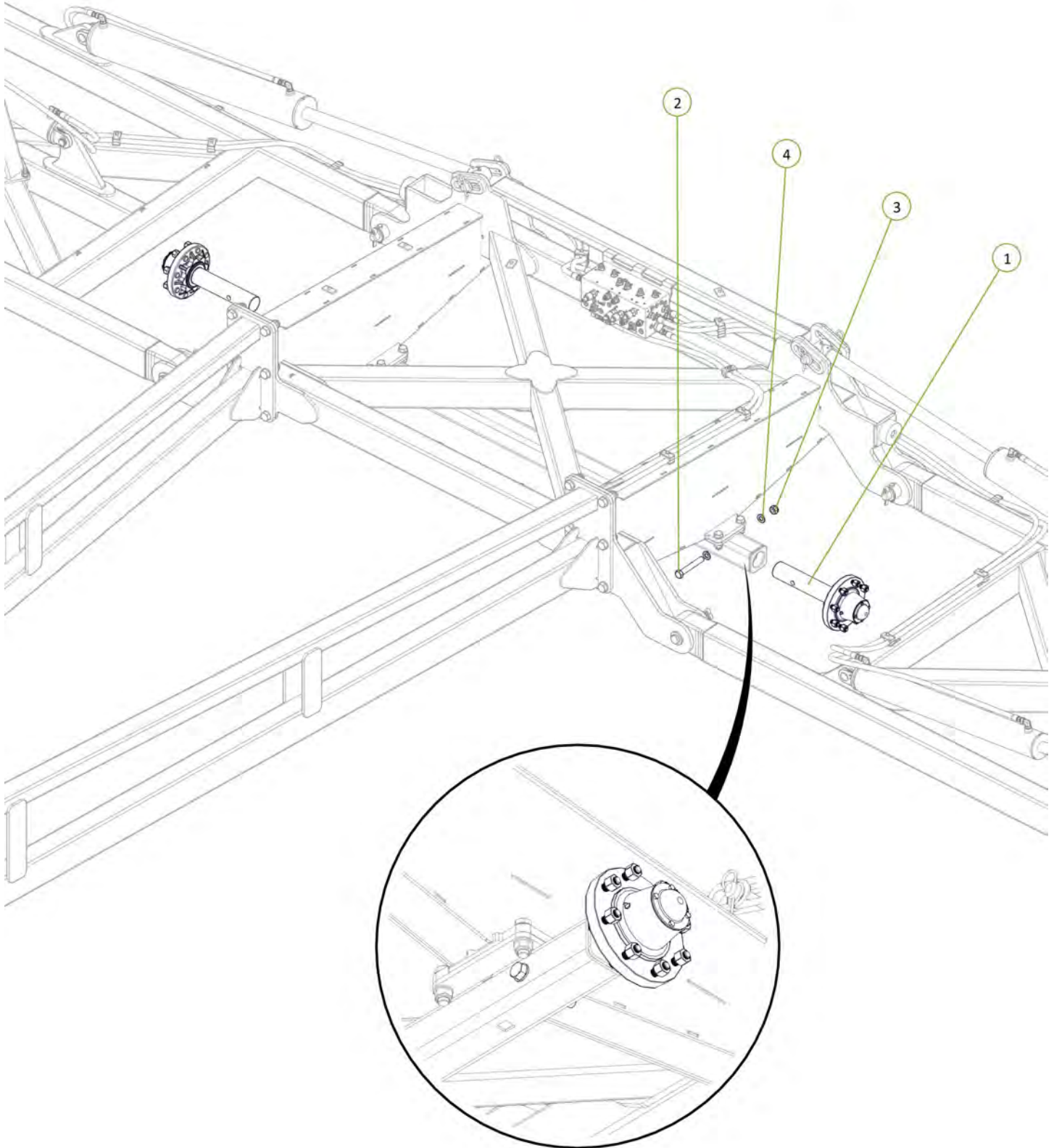
Item No.	Description	Qty	Number
1	2.75"R C/W 6 tonne 8 on 8" PCD Complete Assembly inc GS	1	0733-LG6080067
2	M20 x 170 grade 8.8 ZP Bolt	1	0211-20170
3	Nyloc Nut M20	1	0221-NYL20
4	Washer Flat M20	2	0231-F20



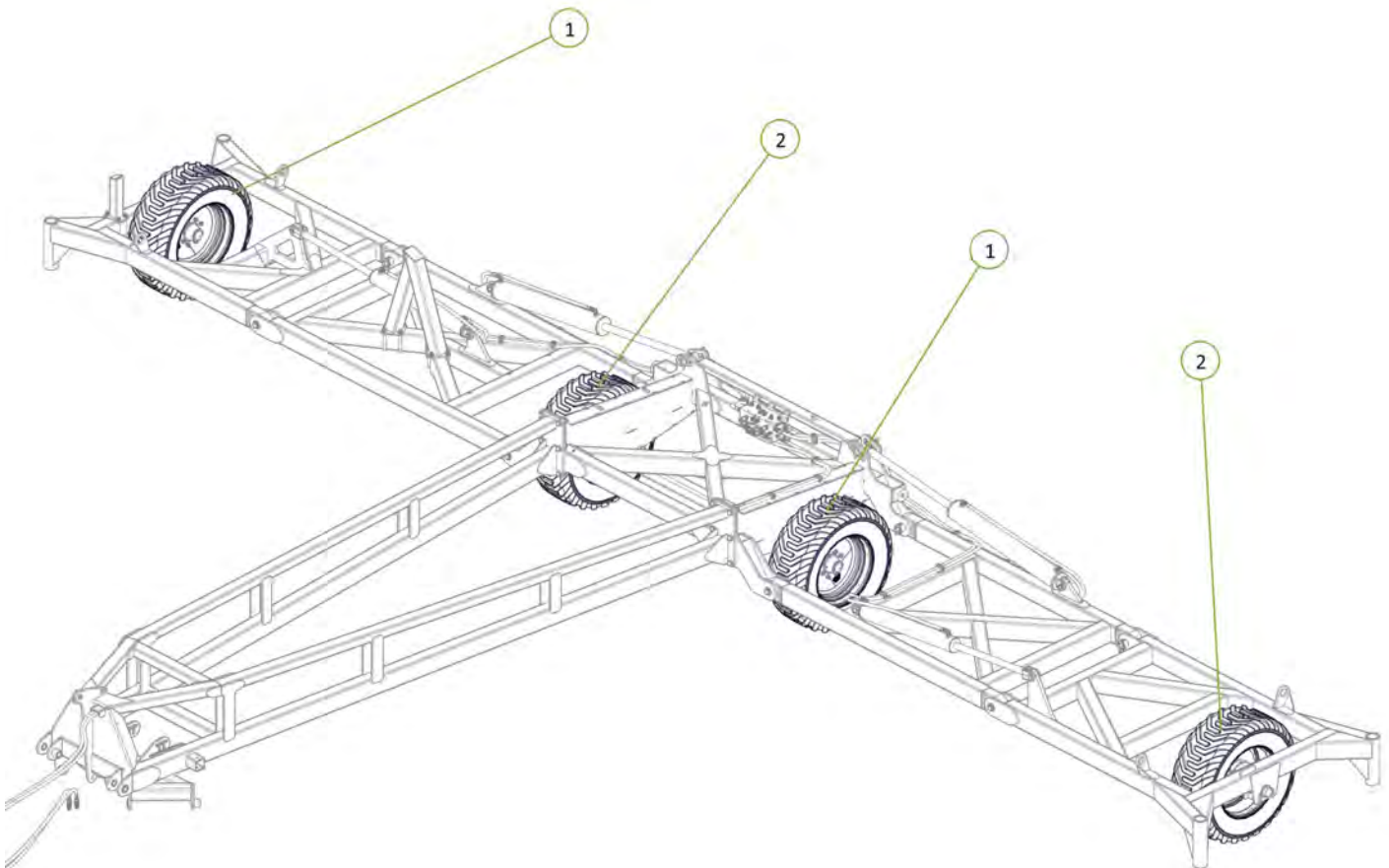
Item No.	Description	Qty	Number
1	12m Axle Beam	1	1540-11
2	M20 x 60 grade 8.8 ZP Bolt	8	0211-2060
3	Nyloc Nut M20	8	0221-NYL20
4	Washer Flat M20	16	0231-F20



Item No.	Description	Qty	Number
1	2.75" R C/W 6 tonne 8 on 8" PCD Complete Assembly inc GS	2	0733-LG6080067
2	M20 x 140 grade 8.8 ZP Bolt	2	0211-20140
3	Nyloc Nut M20	2	0221-NYL20
4	Washer Flat M20	4	0231-F20



Item No.	Description	Qty	Number
1	400/55-22.5 Tyre on 8 on 8" PCD Rim (Right Hand)	2	0751-400-55-22.5TR-R
2	400/55-22.5 Tyre on 8 on 8" PCD Rim (Left Hand)	2	0751-400-55-22.5TR-L

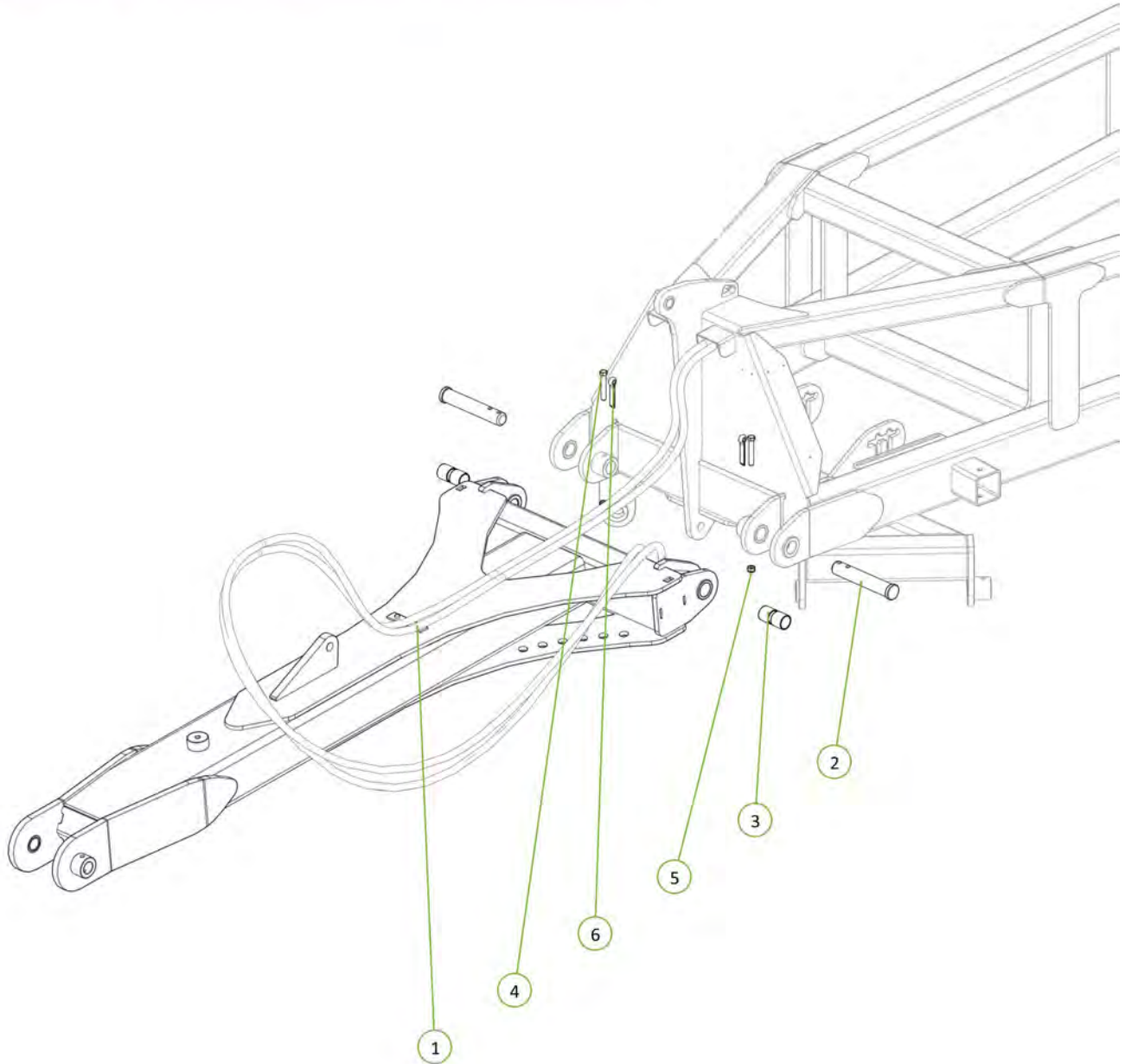


All wheel nuts tightened to 100ft-lb / 140Nm

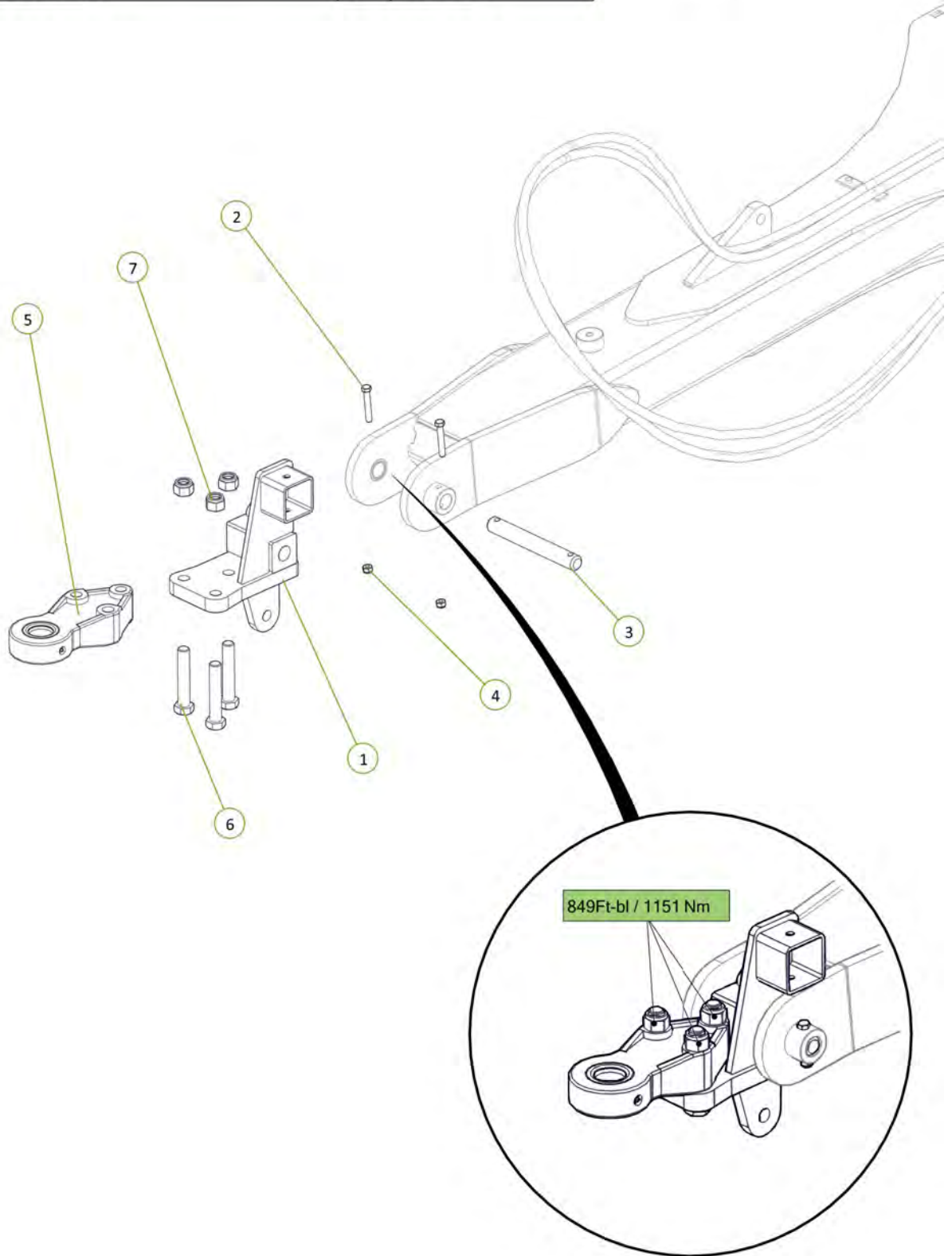
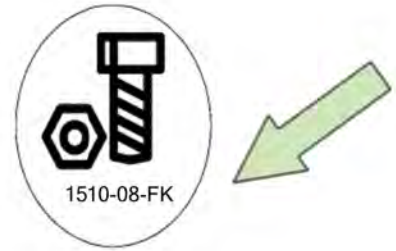


Signed _____ Date ___/___/___
 Unit Serial Number _____

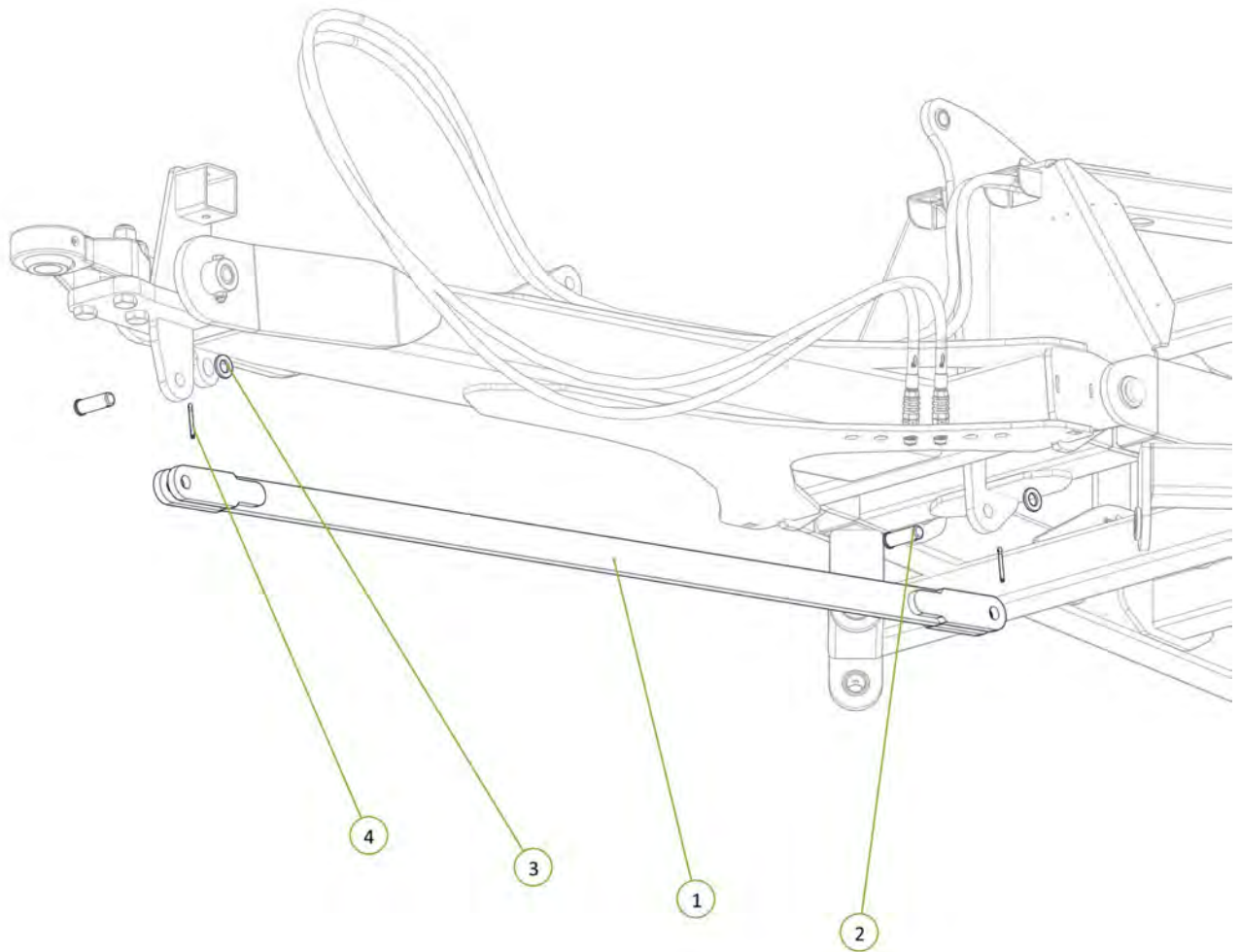
Item No.	Description	Qty	Number
1	Tapered T-Bar Drawbar	1	1510-08-2
2	Walking Axle Linkage Pivot Pin	2	1601-P38-220
3	Drawbar Pivot Bush	4	0801-B423838
4	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
5	Nyloc Nut M12	2	0221-NYL12
6	Cotter Pin M13 x 63	2	0261-PINC1363



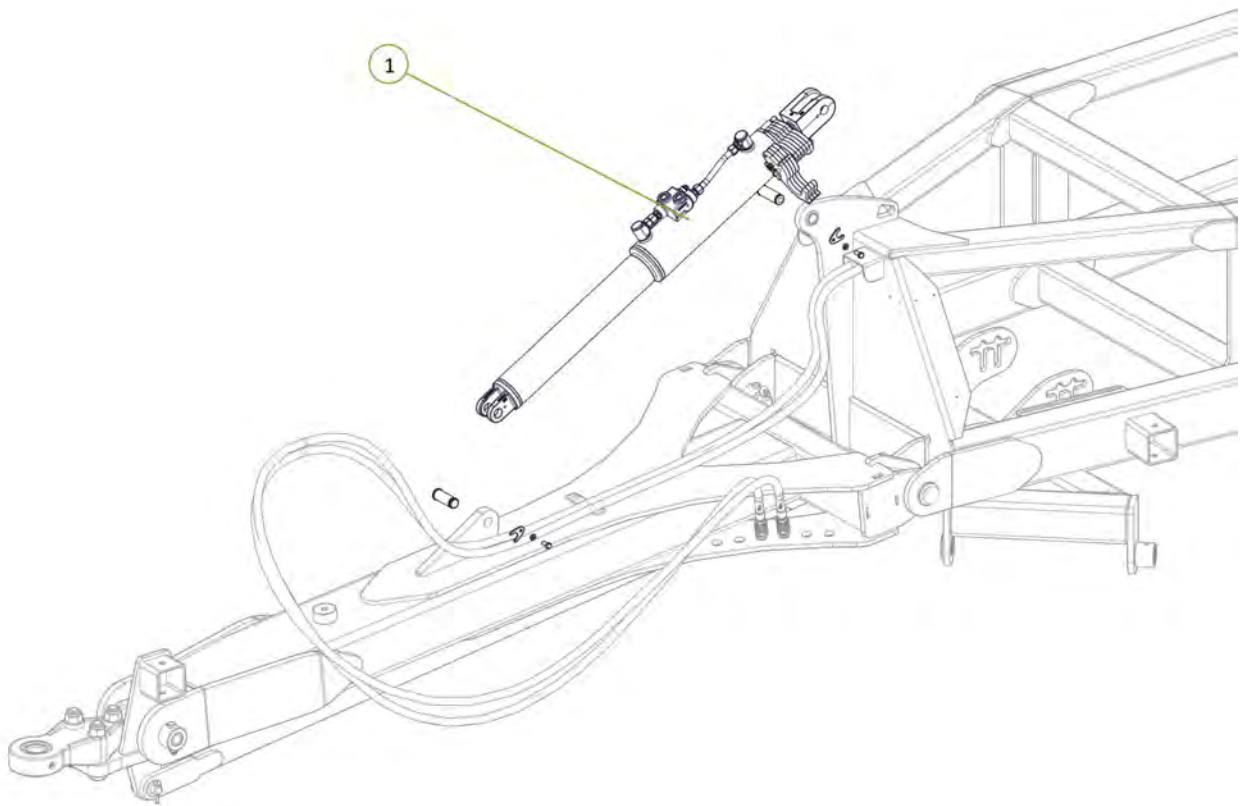
Item No.	Description	Qty	Number
1	Tow Hitch For Bull Pull Swivel Hitch	1	0810-09-BP
2	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
3	Tow Hitch Pivot Pin	1	0801-10-14
4	Nyloc Nut M12	2	0221-NYL12
5	Bull Pull Swivel Hitch CAT 4 wt 1-1/2' Insert	1	0801-BPF-CAT-4JDF-2
6	1" UNF Grade 8 ZP Bolt x 5-1/2"	3	0213-1 51-2
7	Nyloc Nut 1" UNF	3	0223-NYL1



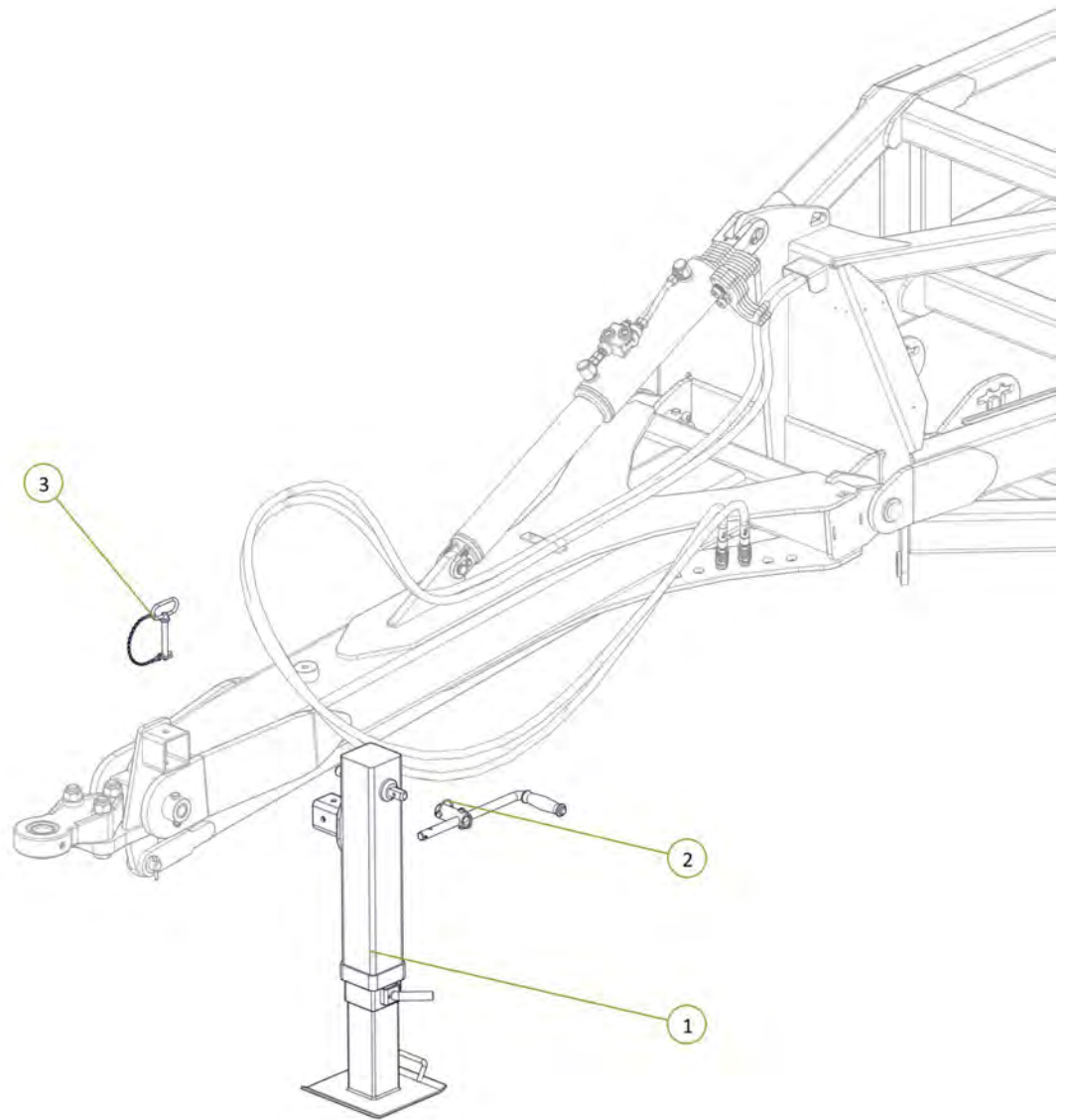
Item No.	Description	Qty	Number
1	Parallel Arm	1	0810-22
2	Clevis Pin 25mm x 75mm	2	0801-KE0307-1
3	Washer Flat M24	2	0231-F24
4	Cotter Pin M5 x 50	2	0261-PINC550



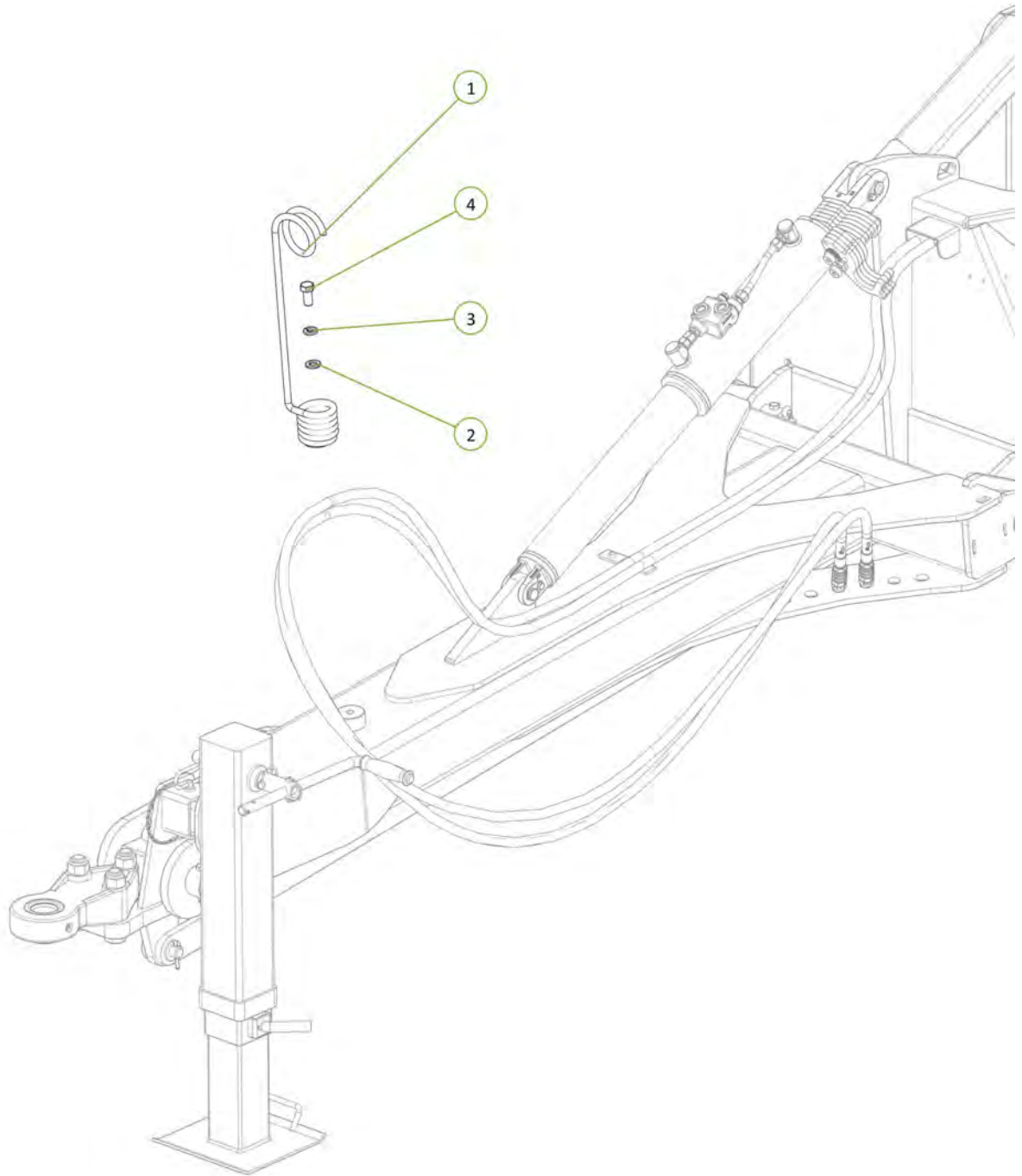
Item No.	Description	Qty	Number
1	4" Bore 12" Stroke 1.75" Rod Extended Hydraulic Cylinder	1	0311-412EXT

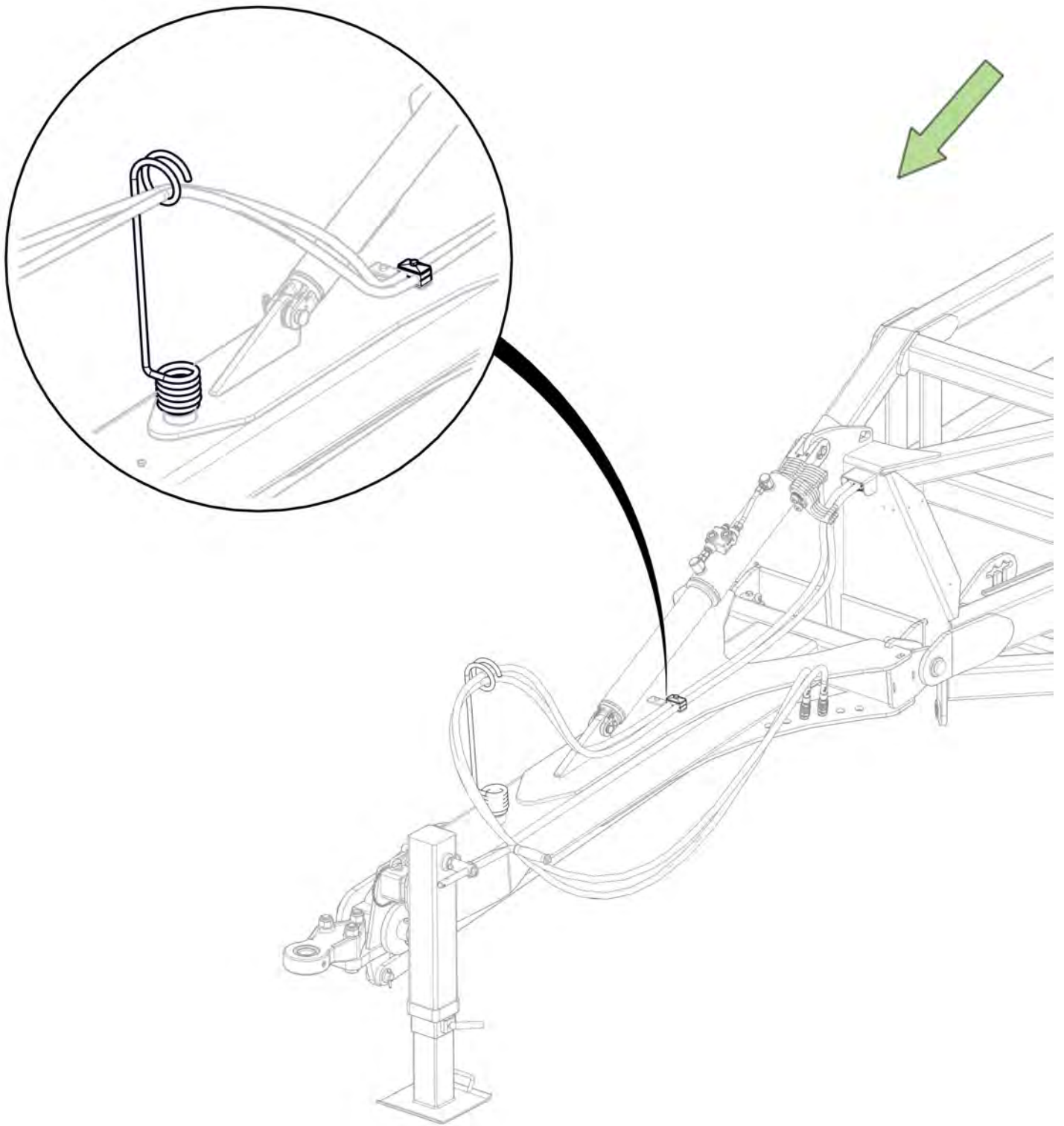


Item No.	Description	Qty	Number
1	Heavy Duty Jack	1	0801-SAK45B-1
2	Jack Handle Assembly 4 Tonne	1	0801-622110HA
3	Jack Pin	1	0801-B3077

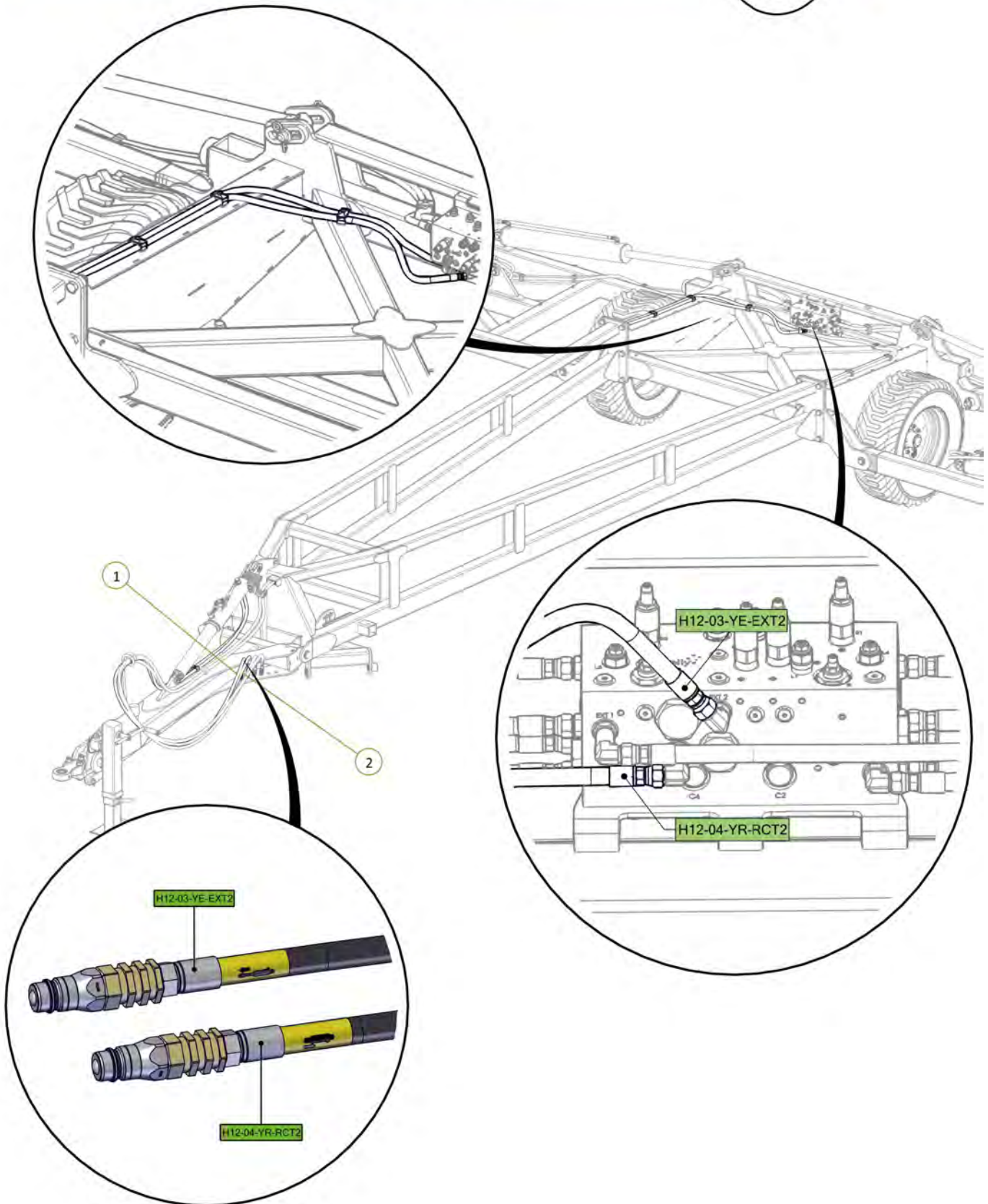


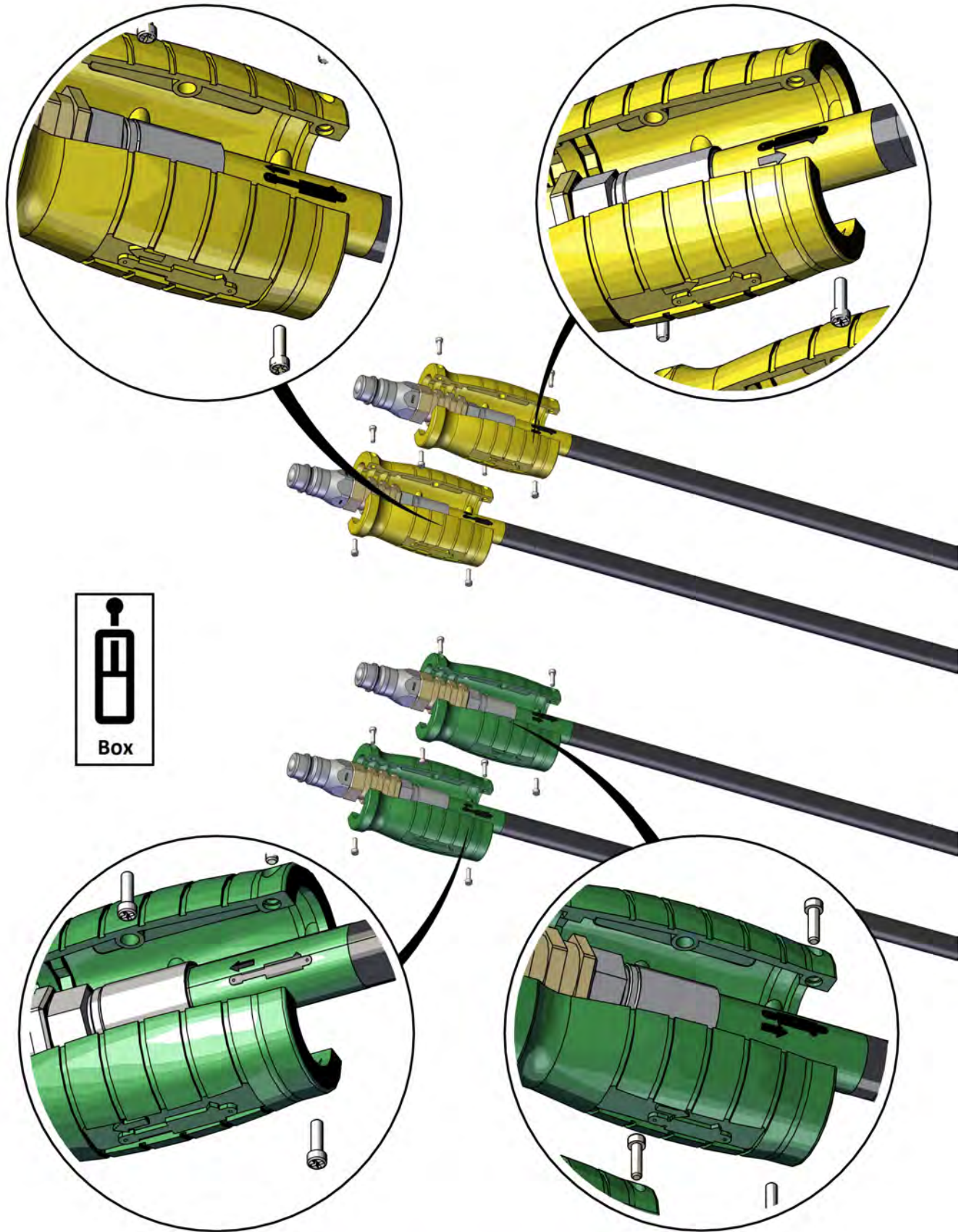
Item No.	Description	Qty	Number
1	Hose Post Spring	1	1601-CDB-00-0012
2	Washer Flat M16	1	0231-F16
3	Washer Spring M16	1	0231-S16
4	M16 x 35 grade 8.8 zp Bolt	1	0211-1635





Item No.	Description	Qty	Number
1	Tractor to Sequence Valve EXT2 Port Fitted With Yellow EXT Decal	1	H12-03-YE-EXT2
2	Tractor to Sequence Valve RTC2 Port Fitted With Yellow RTC Decal	1	H12-04-YR-RCT2



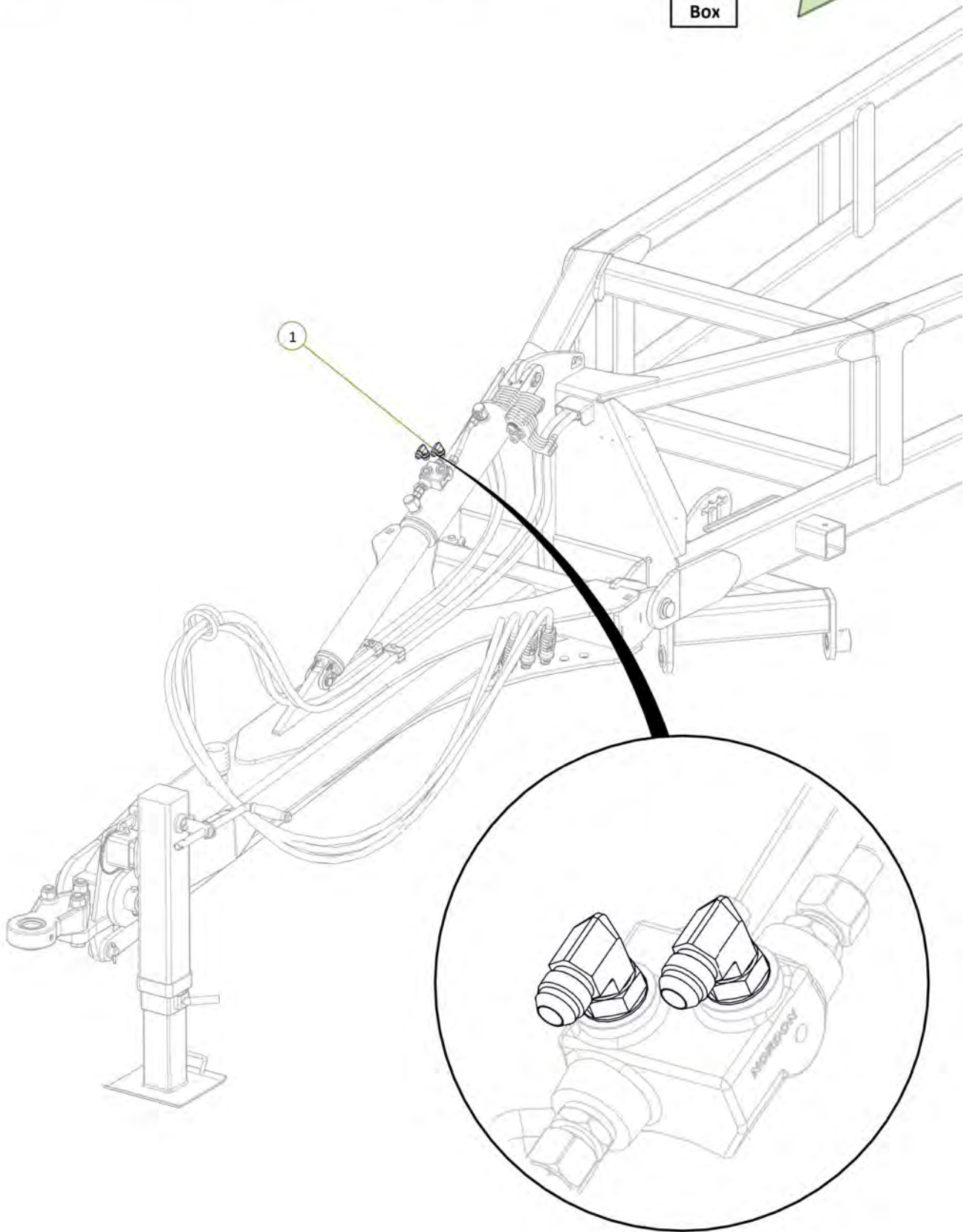


Hose grip handles fitted as per stickers on hoses

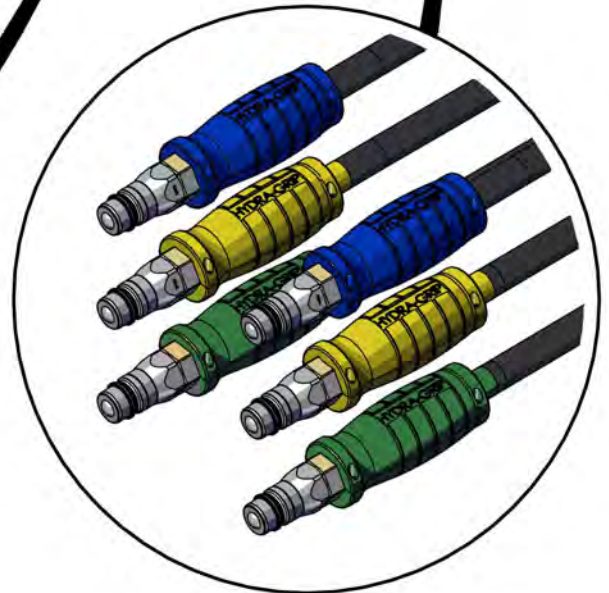
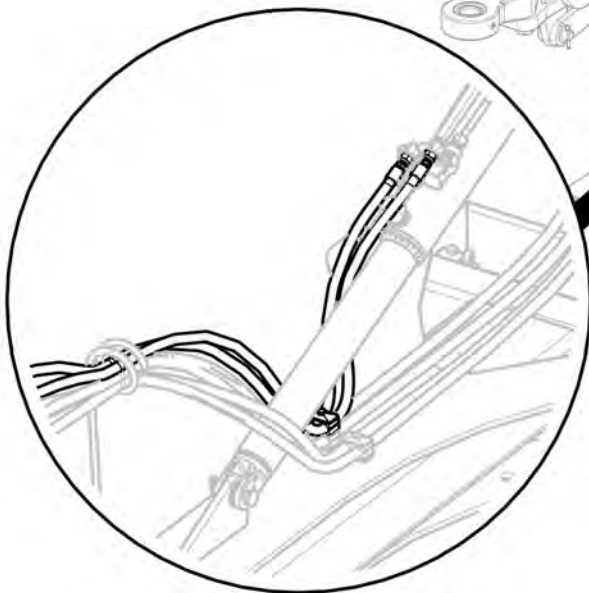
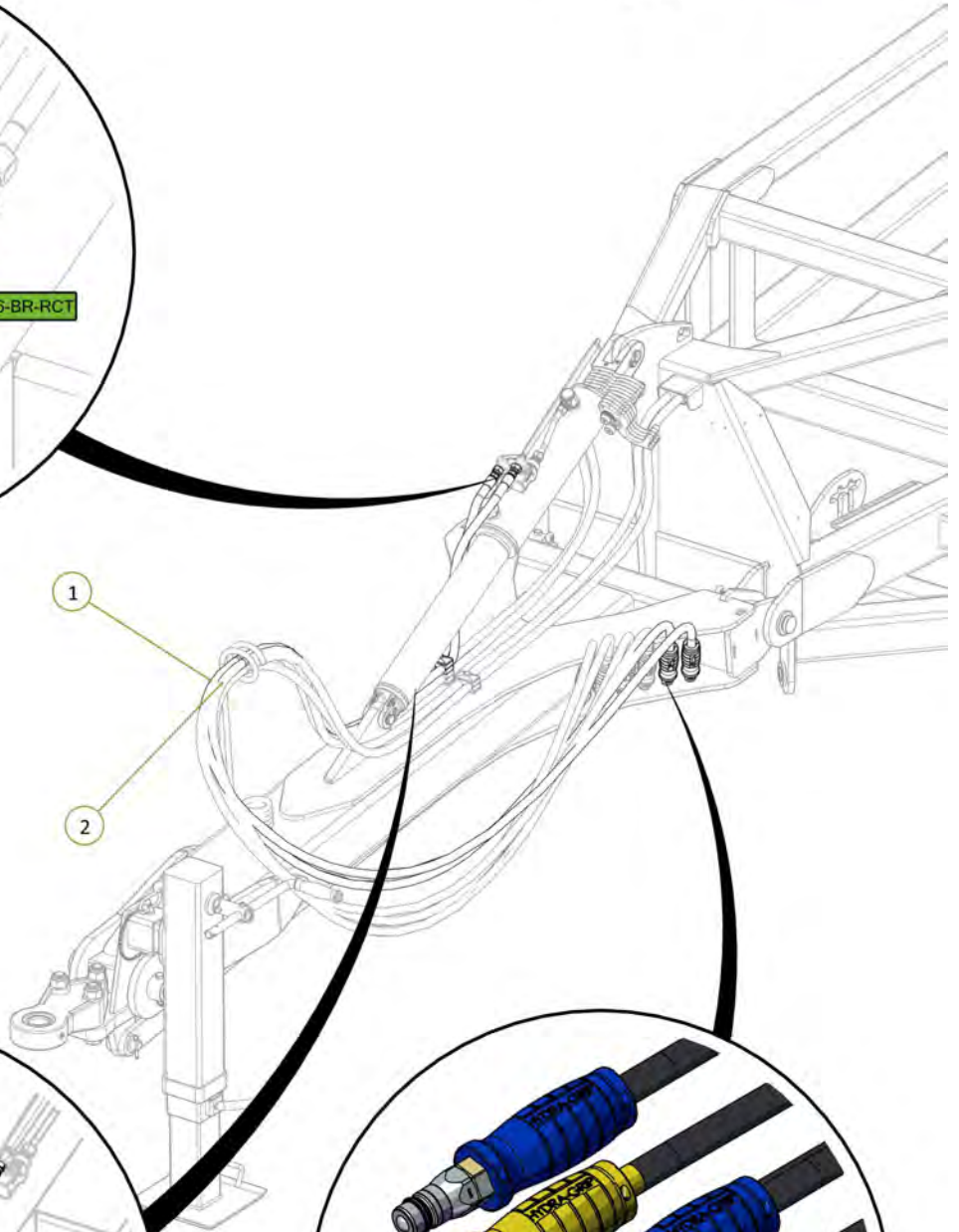
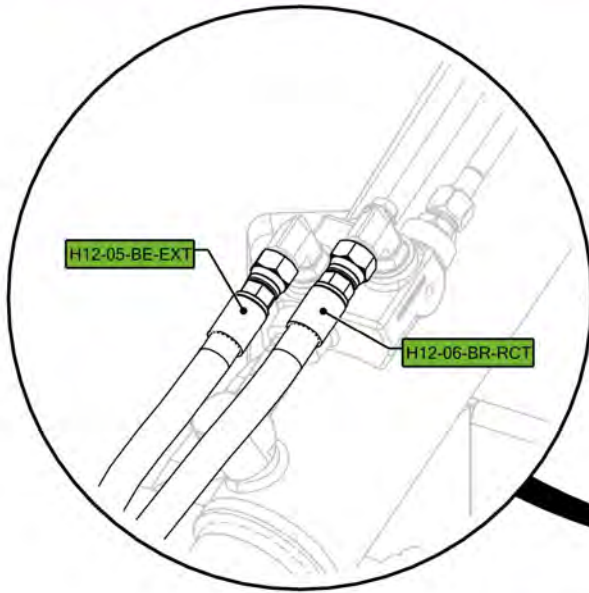


Signed _____ Date ____ / ____ / ____
 Unit Serial Number _____

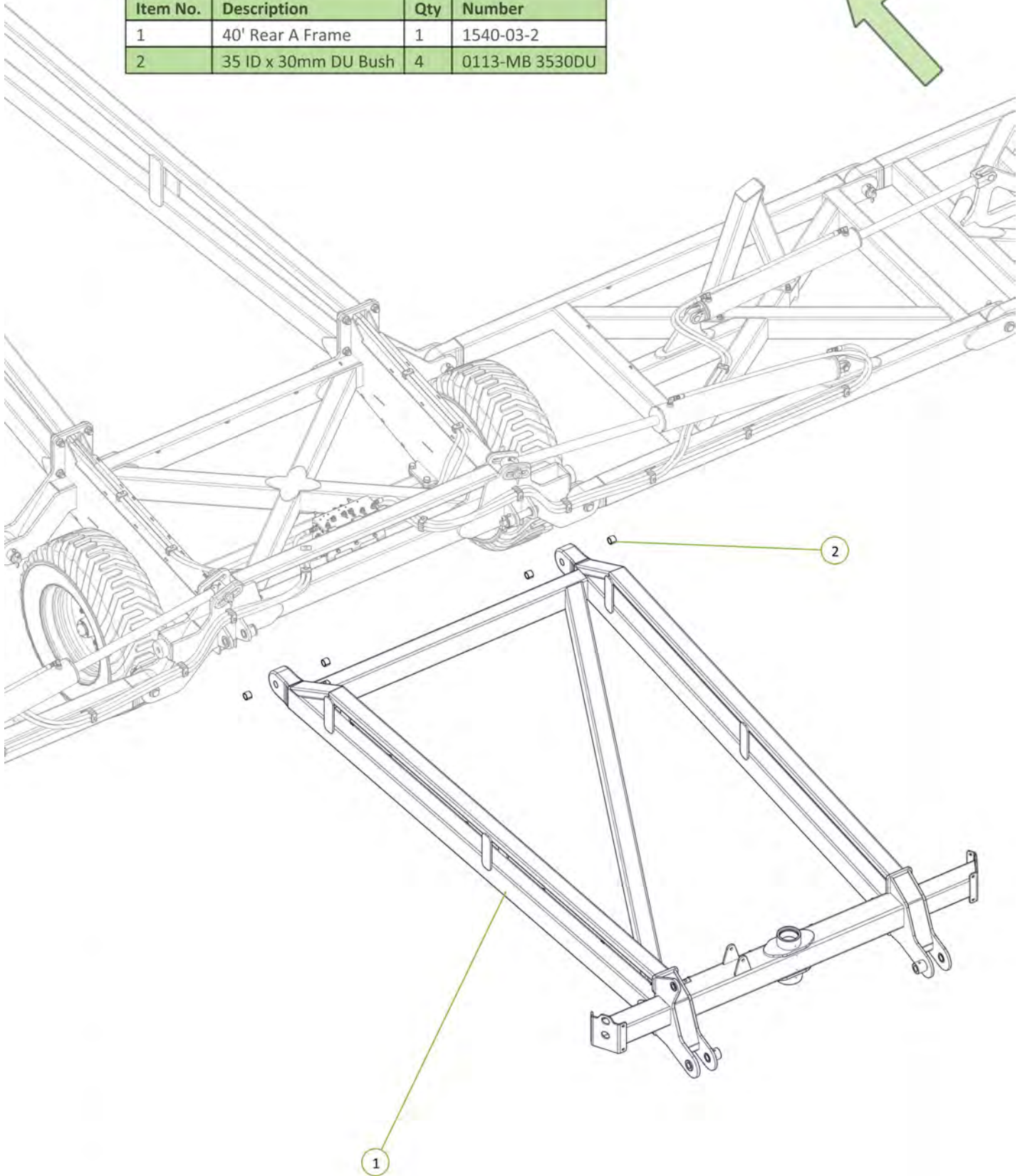
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212



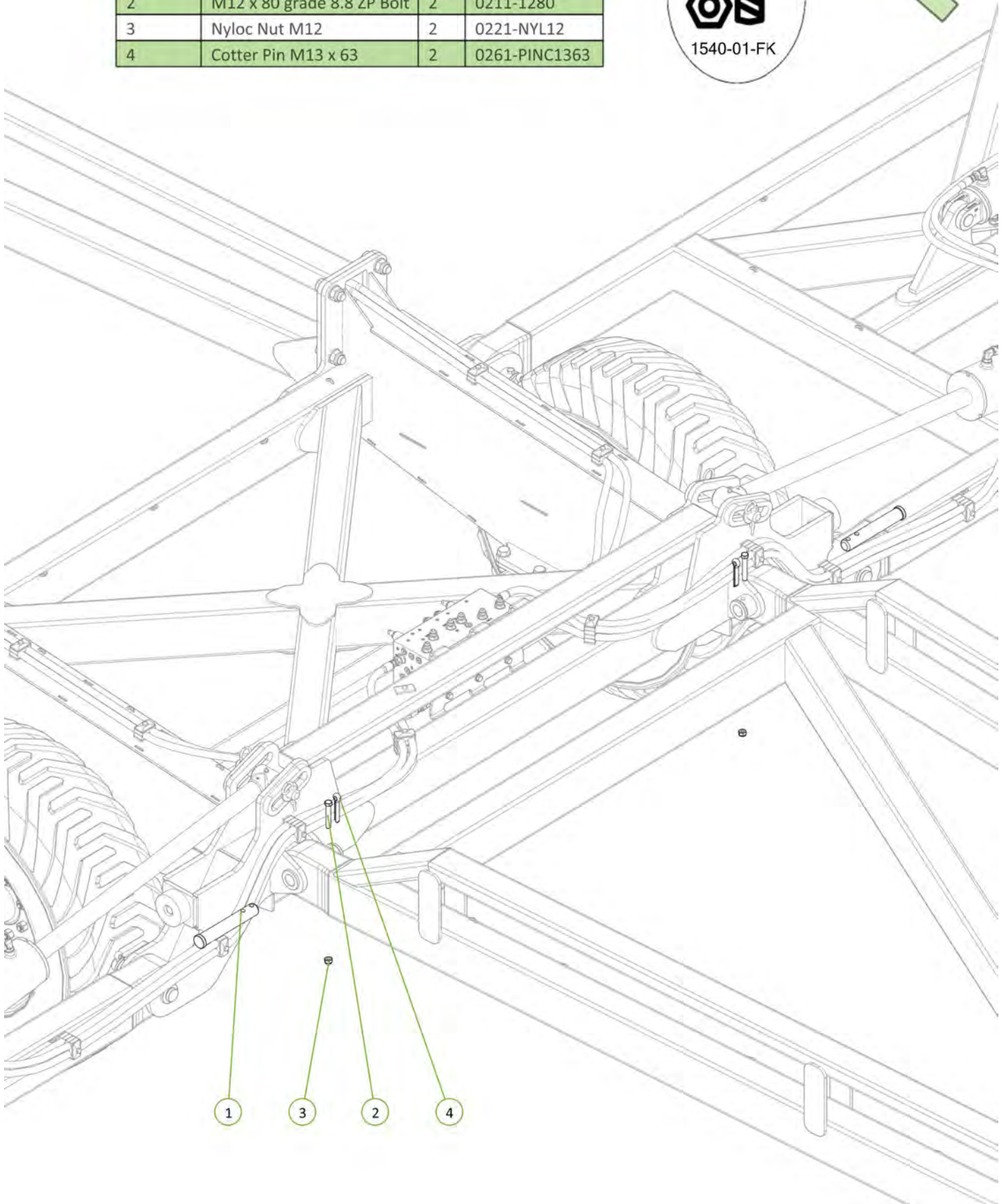
Item No.	Description	Qty	Number
1	Tractor to Front Lift Cylinder Extend Port Fitted With Blue EXT Grip	1	H12-05-BE-EXT
2	Tractor to Front Lift Cylinder Extend Port Fitted With Blue RTC Grip	1	H12-06-BR-RCT



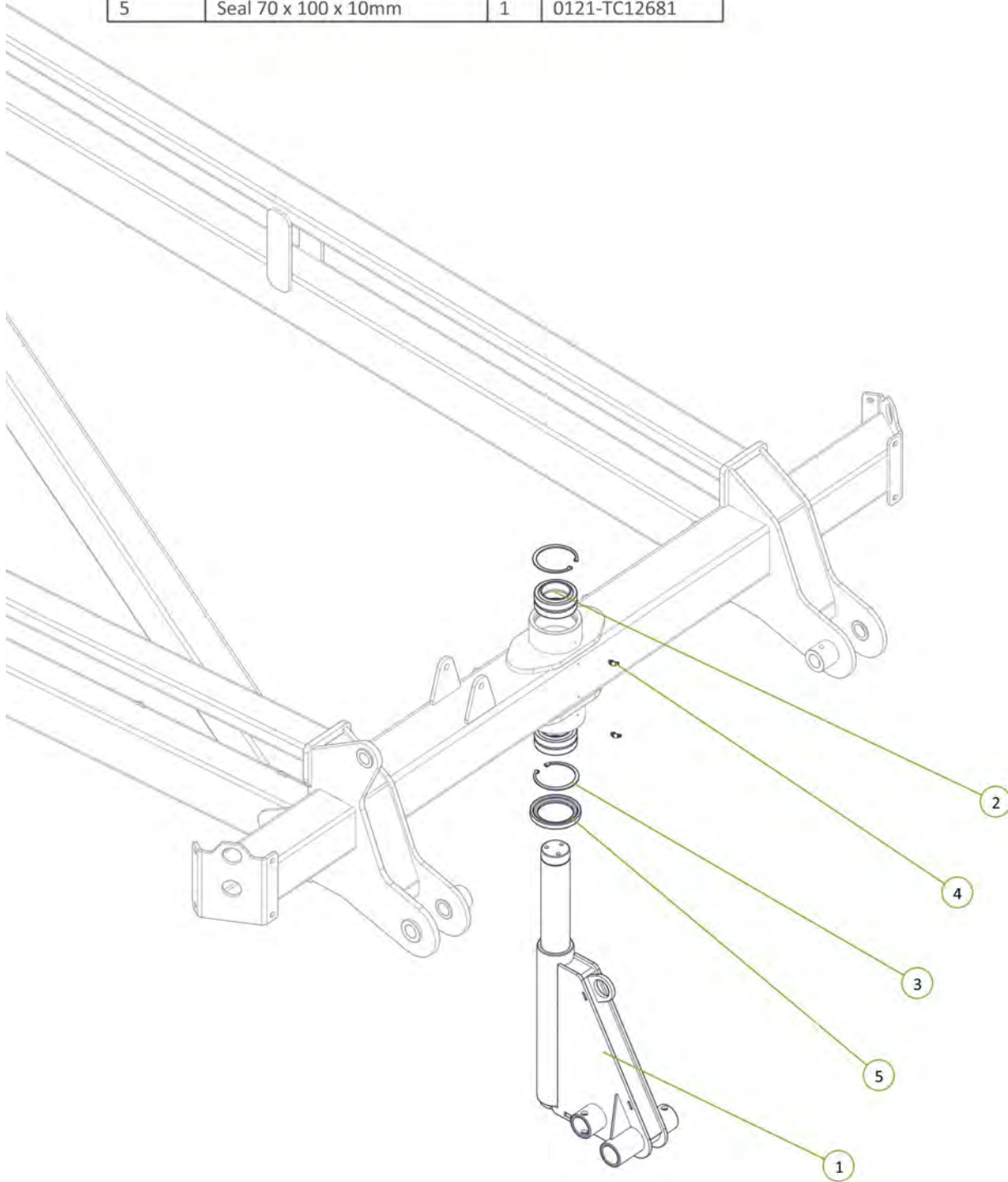
Item No.	Description	Qty	Number
1	40' Rear A Frame	1	1540-03-2
2	35 ID x 30mm DU Bush	4	0113-MB 3530DU



Item No.	Description	Qty	Number
1	PCH Wing Pivot Pin	2	0801-10-08-235
2	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
3	Nyloc Nut M12	2	0221-NYL12
4	Cotter Pin M13 x 63	2	0261-PINC1363

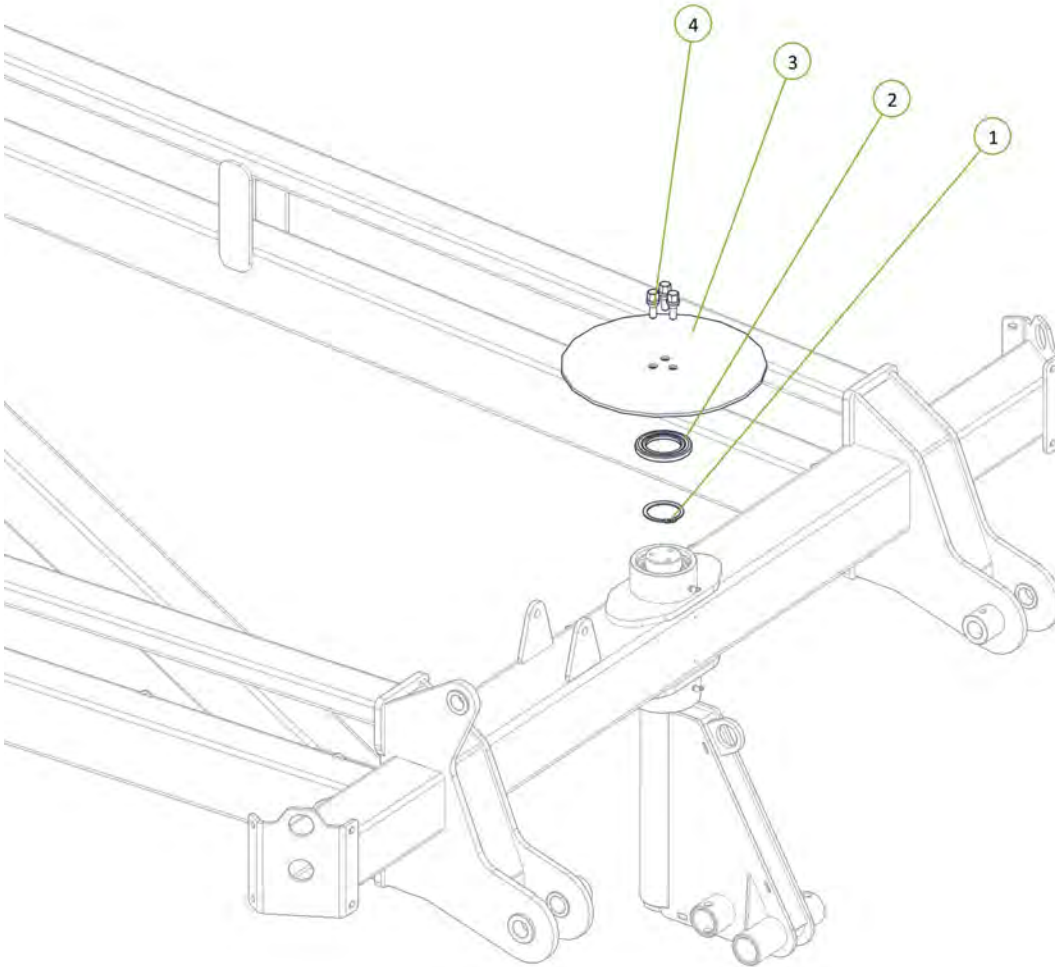


Item No.	Description	Qty	Number
1	70mm Jockey Wheel (Sleeved)	1	1610-12-70
2	Plain Spherical Bearing 70mm	2	0113-GE70DO-2RS
3	Circlip Internal 105mm	2	0171-J105
4	Grease Nipple 1/4" UNF 45°	2	0181-GN1/445
5	Seal 70 x 100 x 10mm	1	0121-TC12681





Item No.	Description	Qty	Number
1	Circlip External 70mm	1	0172-D1400-0700APP
2	Seal 70 x 100 x 10mm	1	0121-TC12654
3	Brake Disc	1	1600-405
4	M12 x 24 Wheel Bolt	3	0216-WB1224

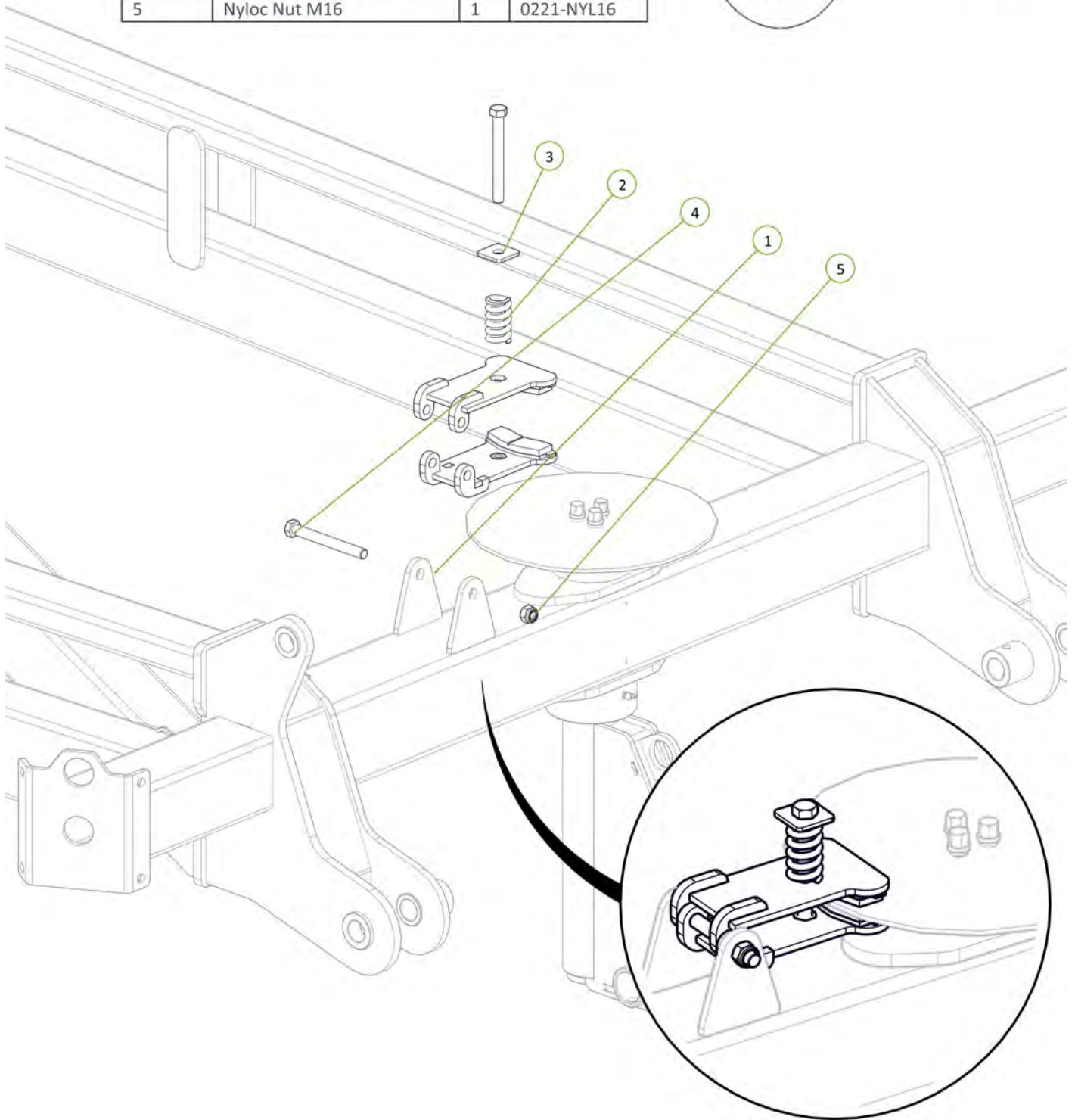


Wheel bolts torqued to 65Ft-Lb / 88Nm

Circlip fitted to Jockey Wheel shaft

Signed _____ Date _/ _/ _
 Unit Serial Number _____

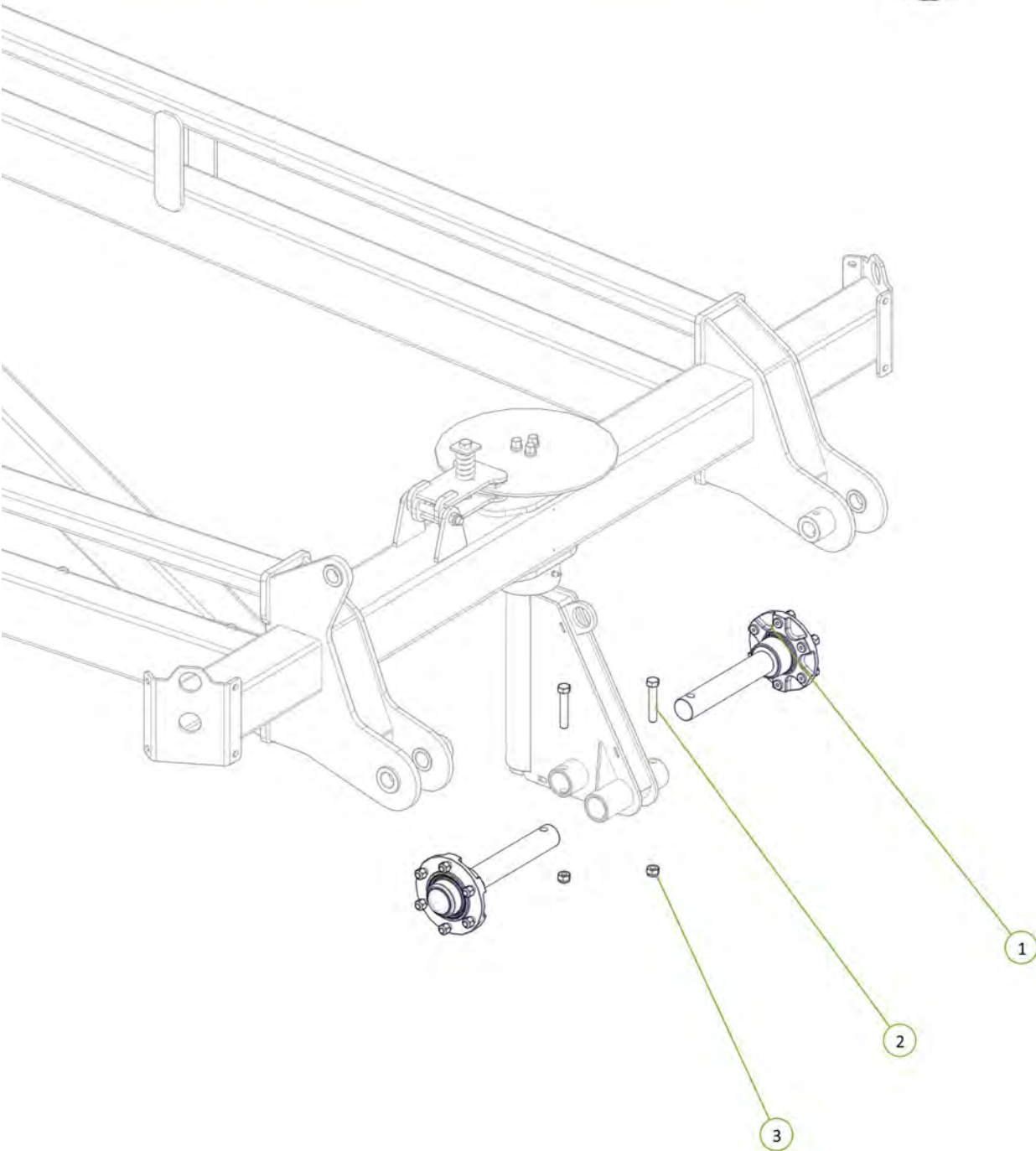
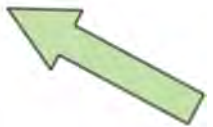
Item No.	Description	Qty	Number
1	Jockey Wheel Brake Caliper	1	0810-12CAL
2	Brake Compression Spring	1	0801-KE009
3	Washer Square M16 x 50 x 5	1	0231-SQ16505
4	M16 x 150 grade 8.8 zp Bolt	2	0211-16150
5	Nyloc Nut M16	1	0221-NYL16



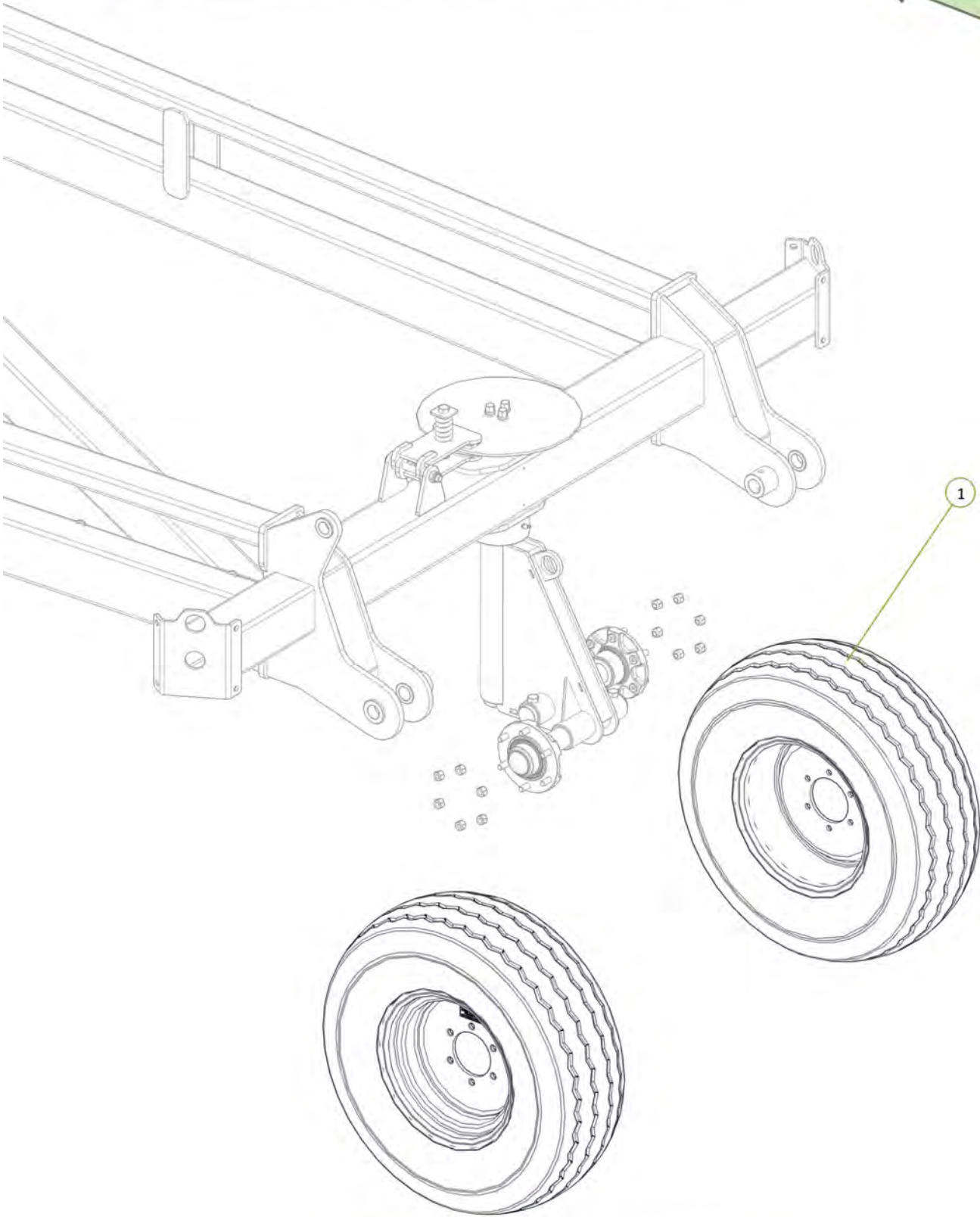
Check tension of brake calliper spring (50-63mm road transport) ○

Signed _____ Date ___/___/___
 Unit Serial Number _____

Item No.	Description	Qty	Number
1	Axle 2"R 3T 6 on 6"PCD 330 OHF Complete Assembly Inc GS	2	0733-LG8880093
2	M16 x 90 grade 8.8 zp Bolt	2	0211-1690
3	Nyloc Nut M16	2	0221-NYL16



Item No.	Description	Qty	Number
1	11L15 F3 Tyre on 6 on 205 Stud Rim	2	0751-11L15

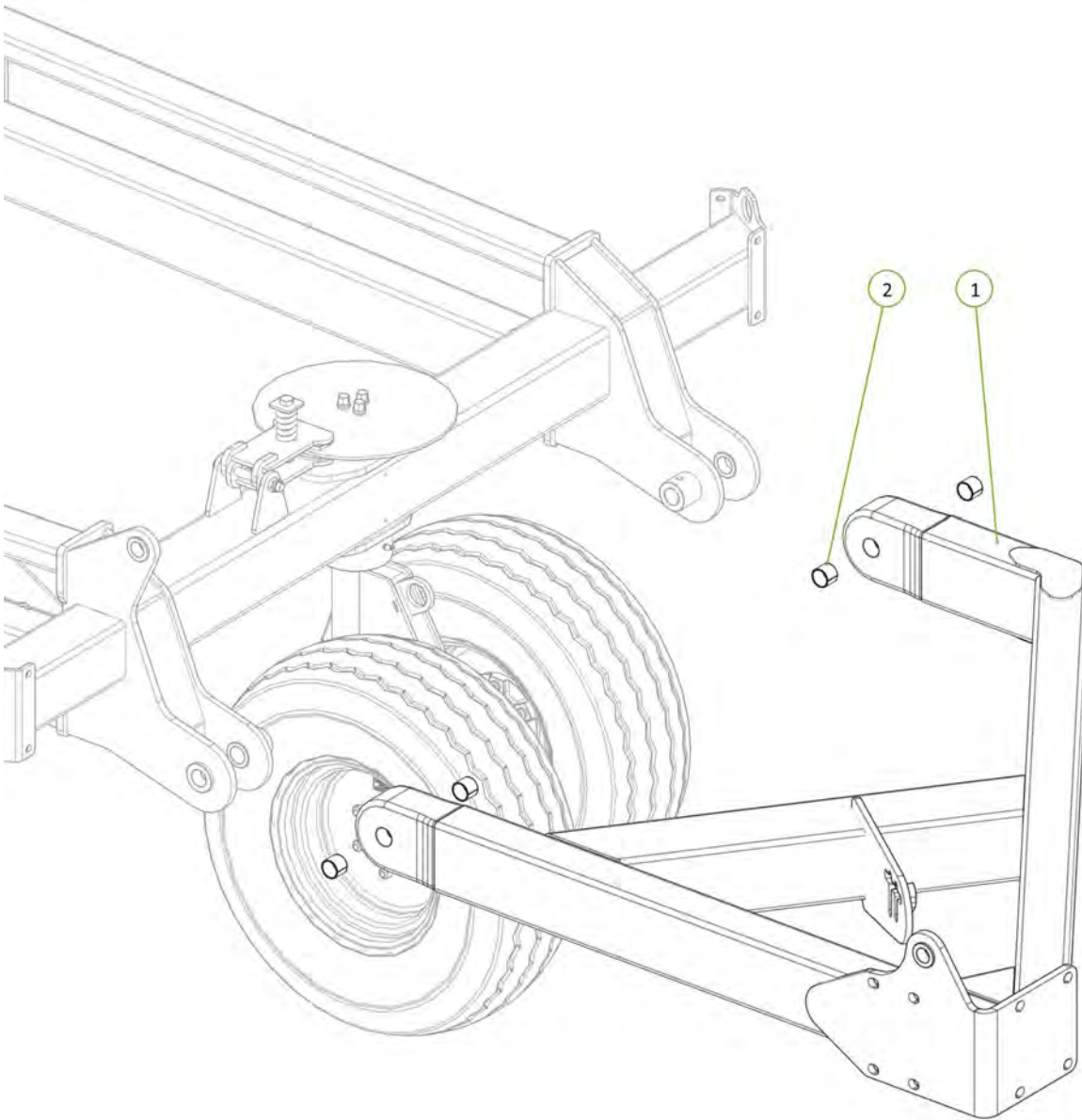


All wheel nuts tightened to 90Ft-Lb / 125Nm

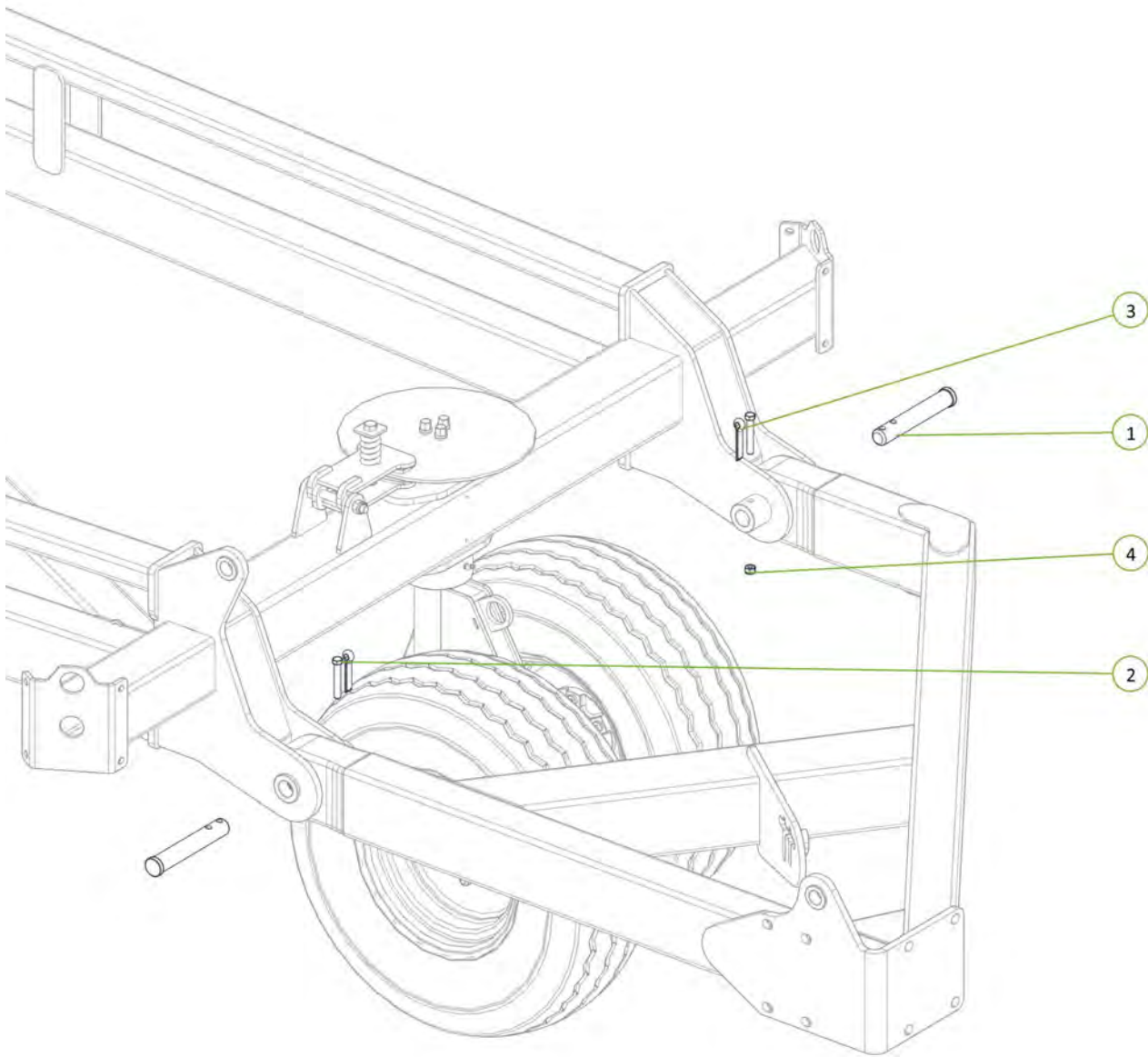


Signed _____ Date ___/___/___
 Unit Serial Number _____

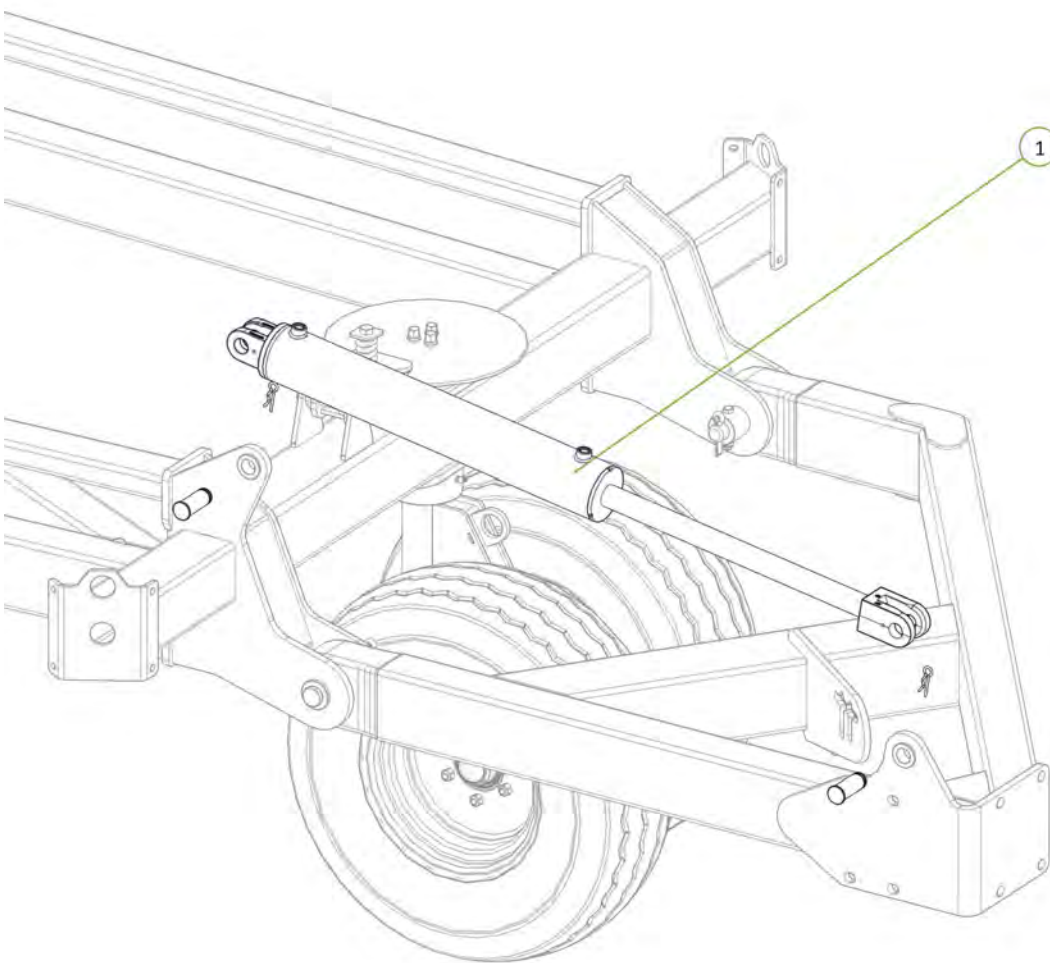
Item No.	Description	Qty	Number
1	Rear Tail	1	1510-40S
2	35 ID x 30mm DU Bush	4	0113-MB 3530DU



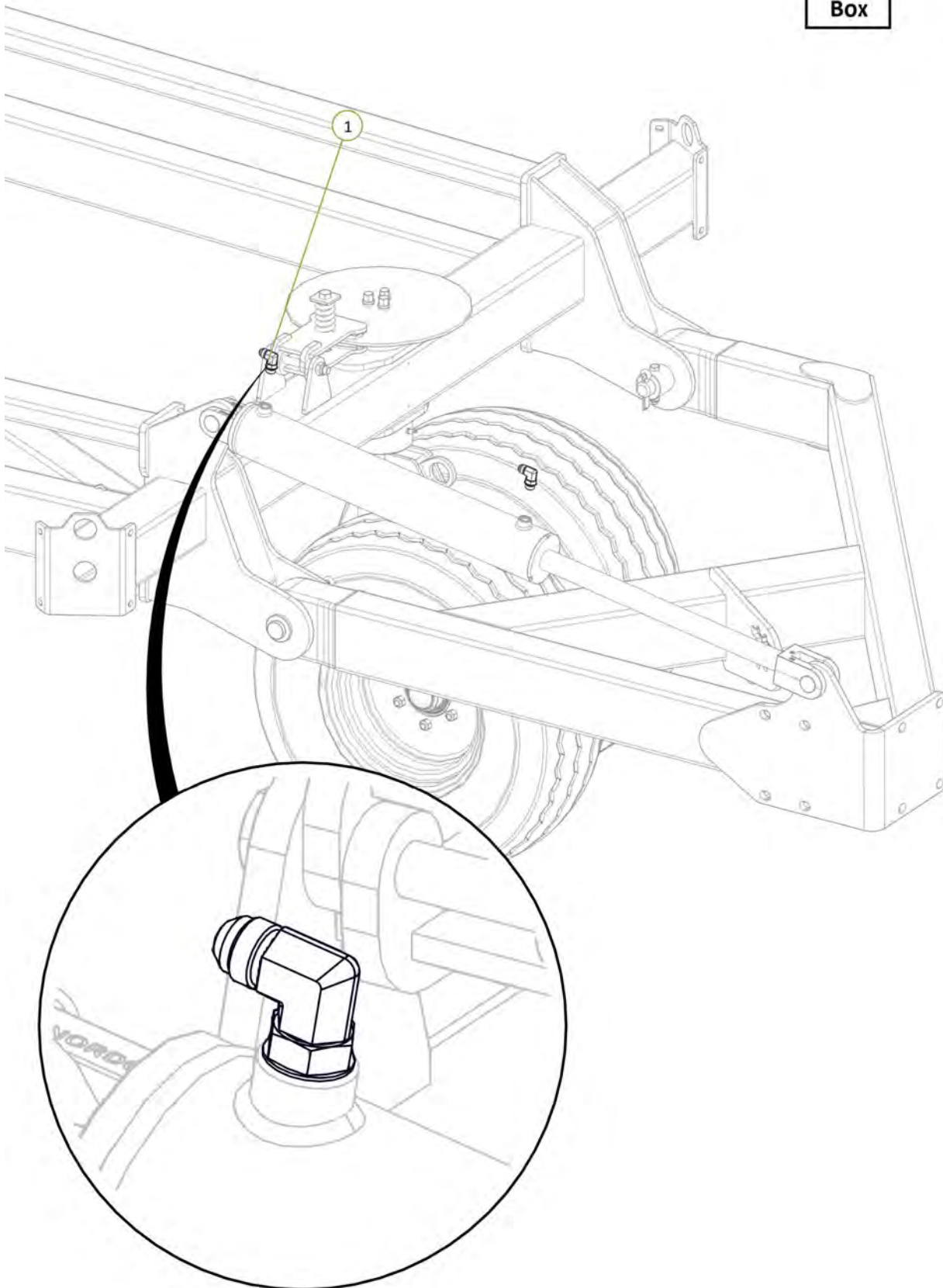
Item No.	Description	Qty	Number
1	PCH Wing Pivot Pin	2	0801-10-08-235
2	M12 x 80 grade 8.8 ZP Bolt	2	0211-1280
3	Cotter Pin M13 x 63	2	0261-PINC1363
4	Nyloc Nut M12	2	0221-NYL12



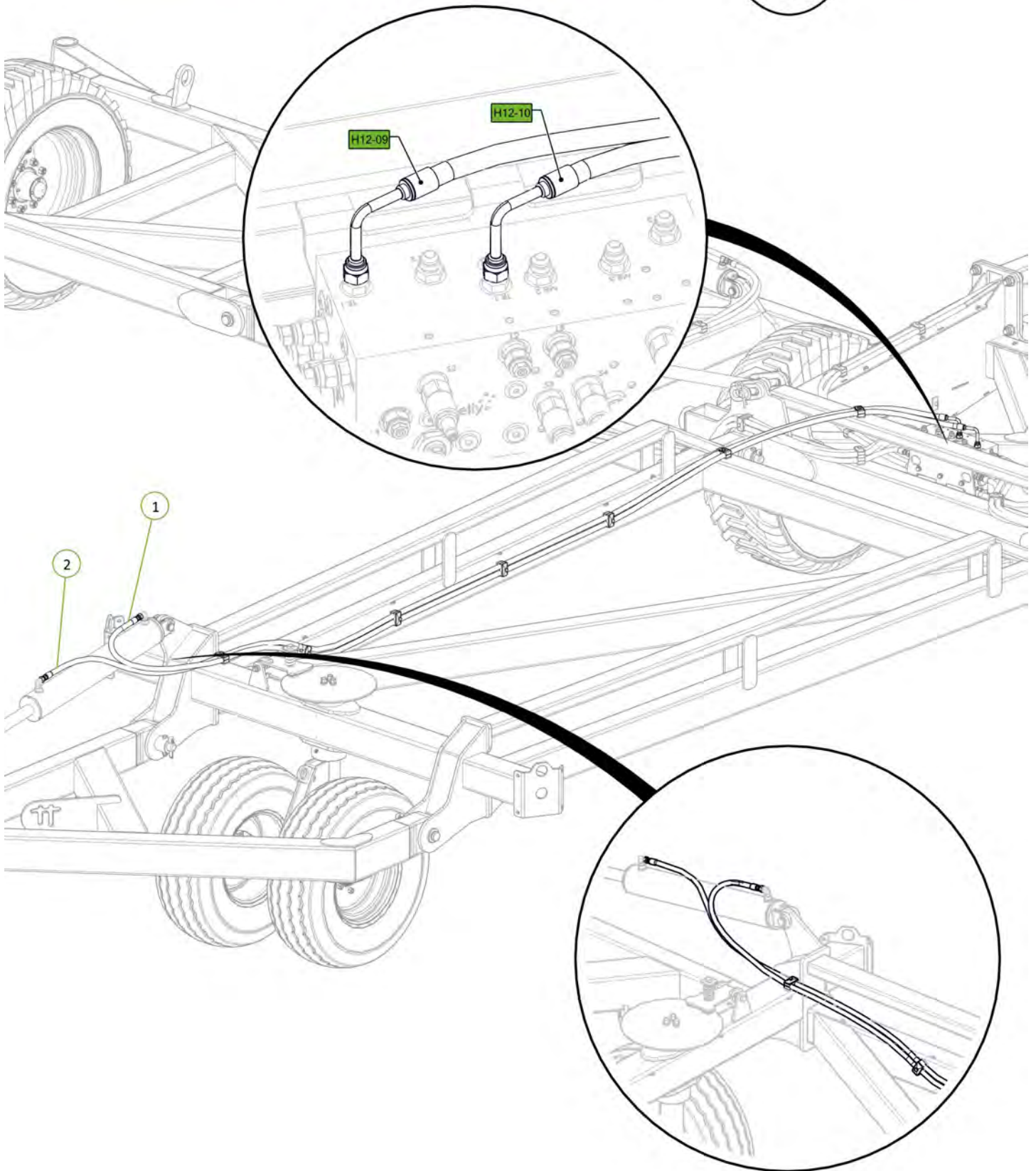
Item No.	Description	Qty	Number
1	4" Bore 24" Stroke 1.75" Rod Hydraulic Cylinder	1	0311-424



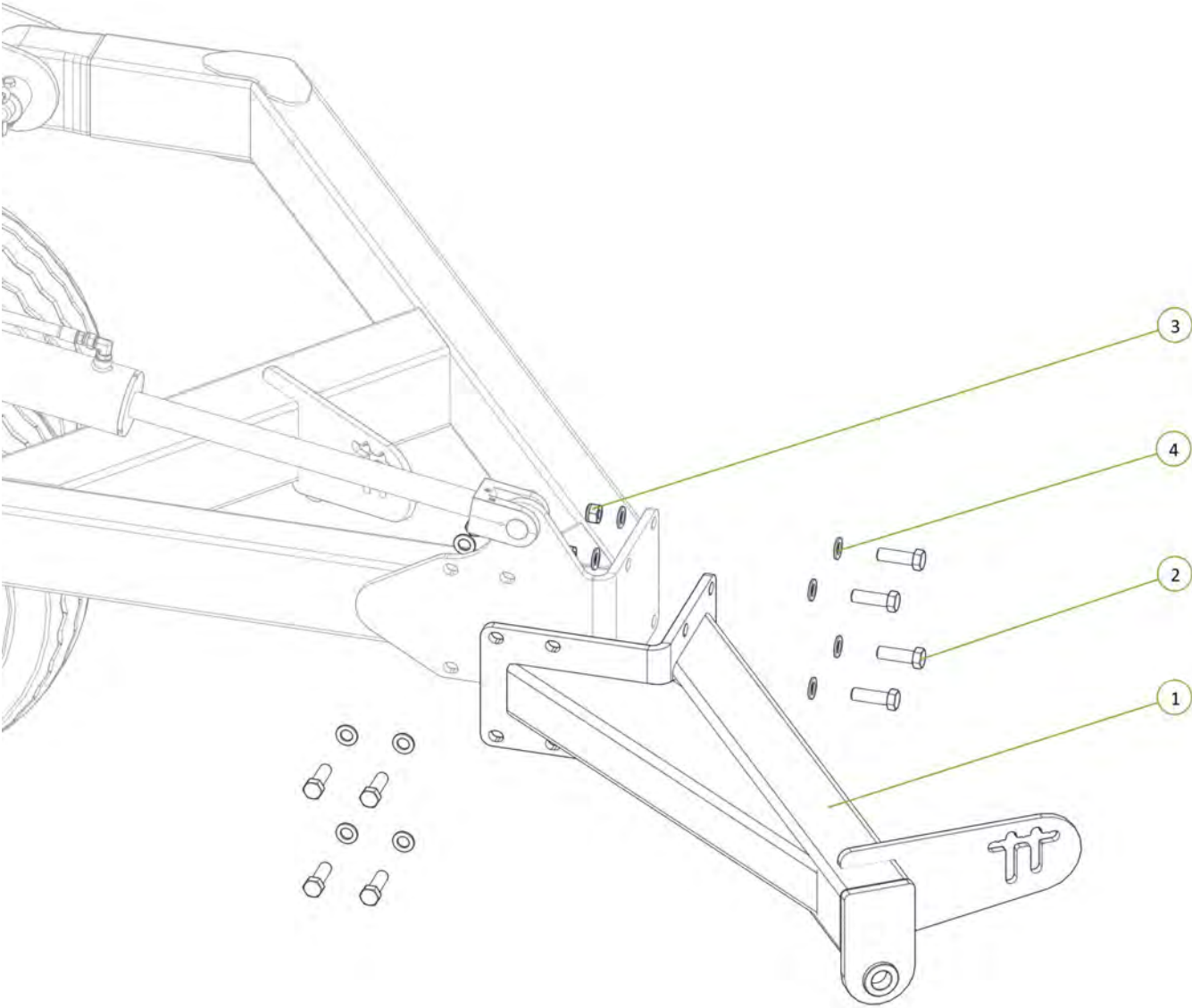
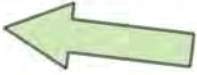
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212



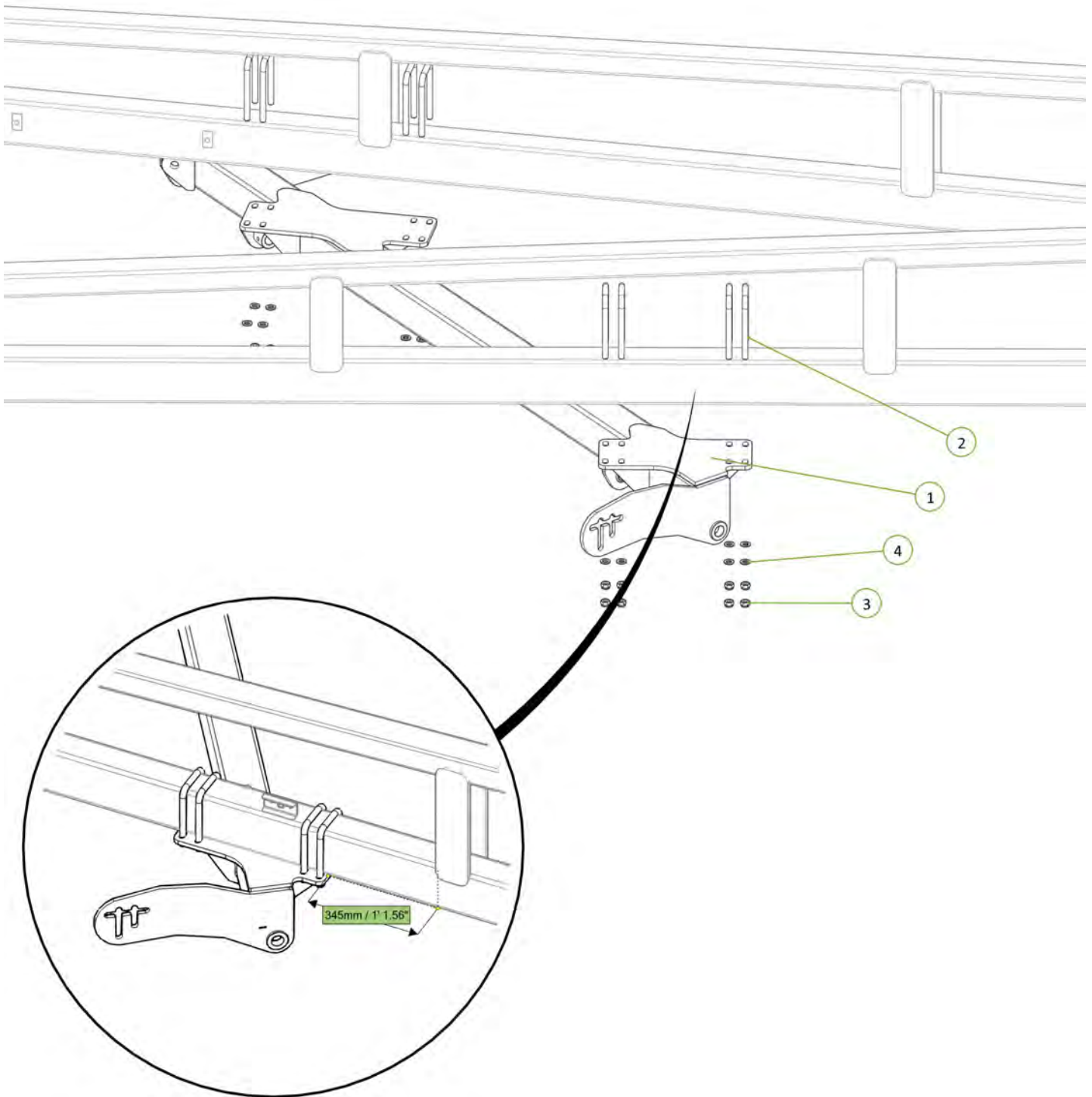
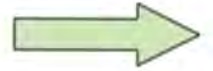
Item No.	Description	Qty	Number
1	TE1 Port to Tail Lift Cylinder Extend Port	1	H12-09
2	TR1 Port to Tail Lift Cylinder Retract Port	1	H12-10



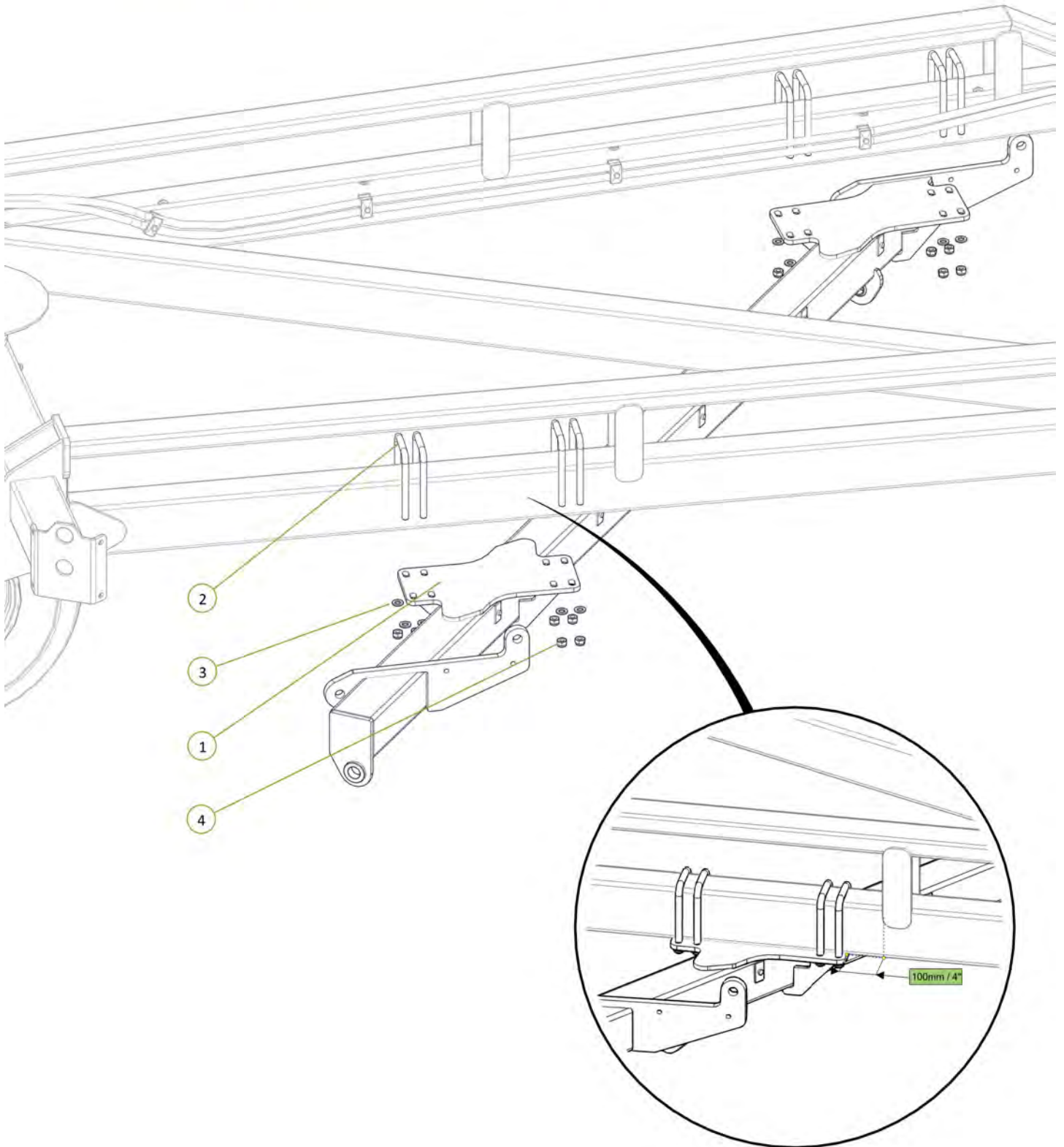
Item No.	Description	Qty	Number
1	Tail Extension	1	1510-40ST
2	M20 x 65 grade 8.8 ZP Bolt	8	0211-2065
3	Nyloc Nut M20	8	0221-NYL20
4	Washer Flat M20	16	0231-F20



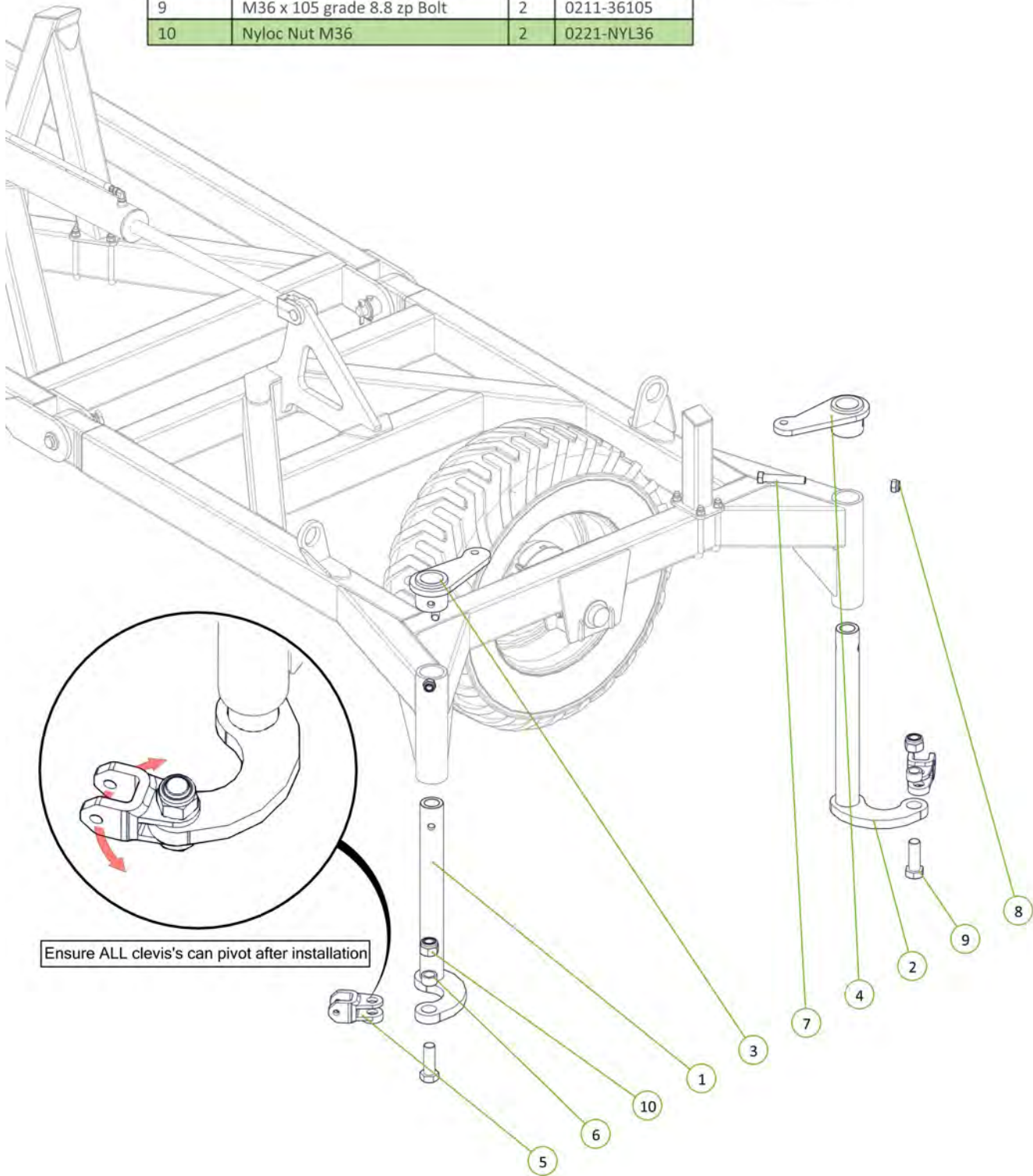
Item No.	Description	Qty	Number
1	40' Front Module	1	1510-28-12
2	U-Bolt M16 x 190 Deep X 106 Wide	8	0271-16190106U
3	Nyloc Nut M16	16	0221-NYL16
4	Washer Flat M16	16	0231-F16



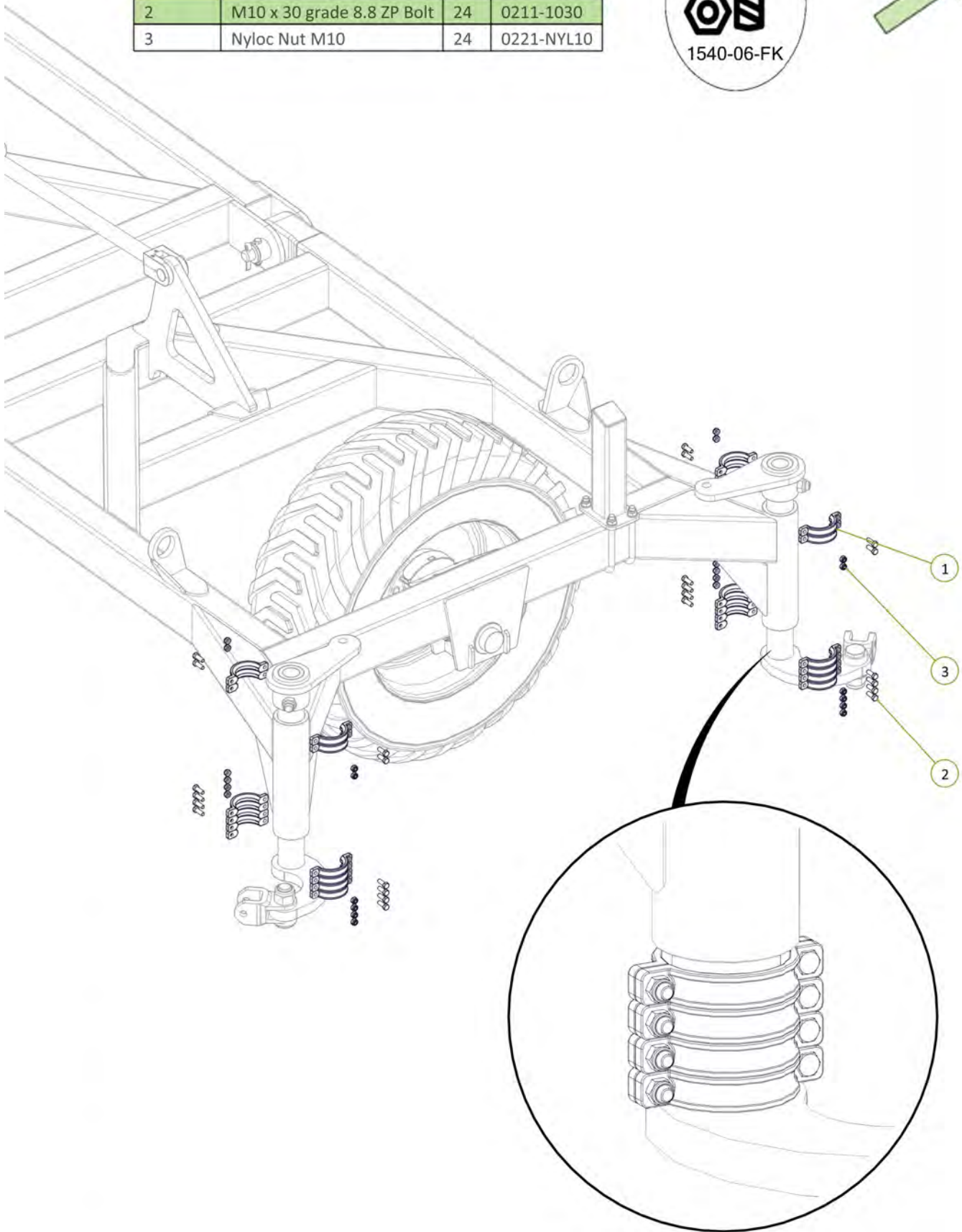
Item No.	Description	Qty	Number
1	40' Rear Module	1	1510-29-12-2
2	U-Bolt M16 x 190 Deep X 106 Wide	8	0271-16190106U
3	Washer Flat M16	16	0231-F16
4	Nyloc Nut M16	16	0221-NYL16



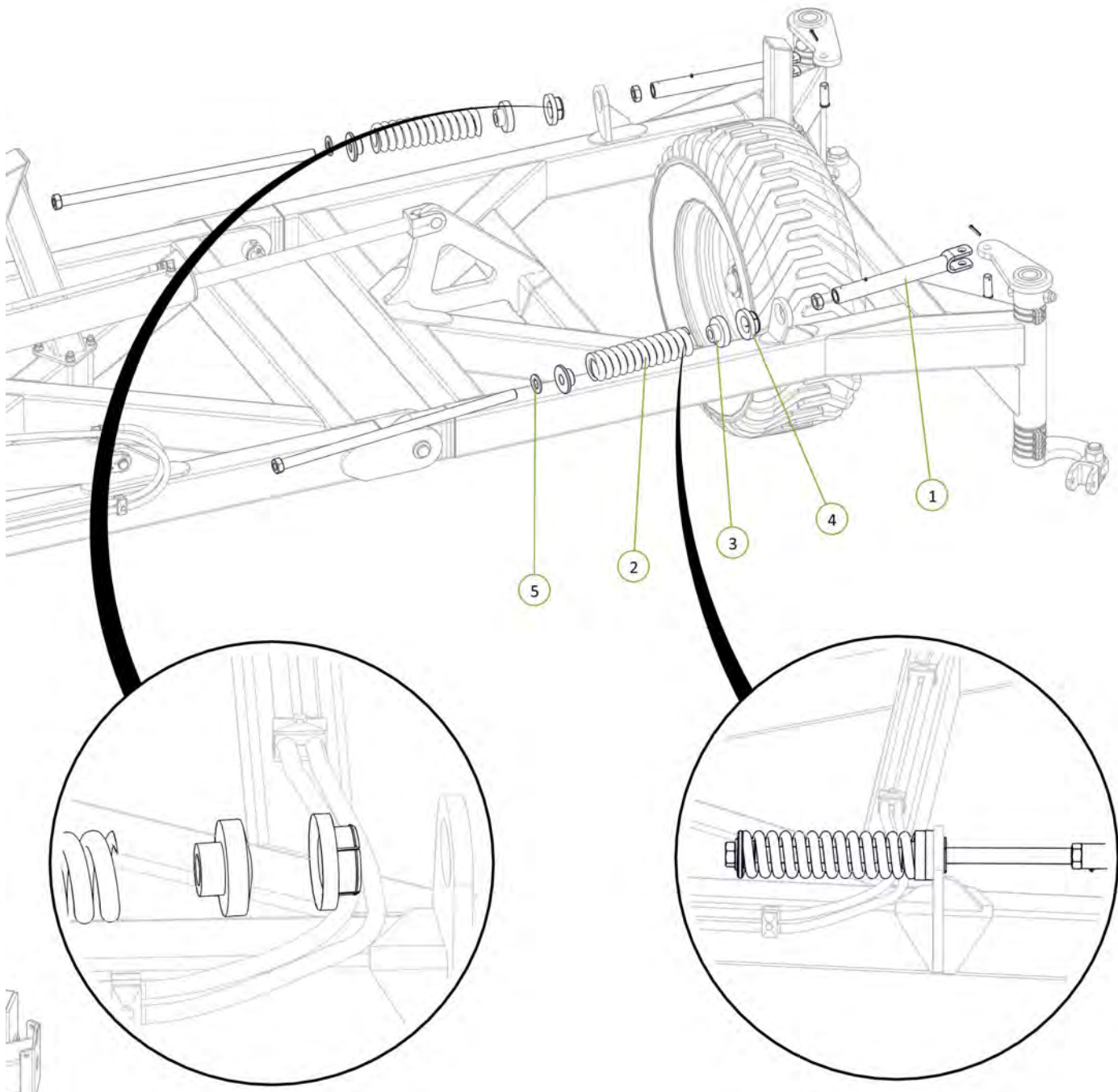
Item No.	Description	Qty	Number
1	Super Single LH Drop Leg No Clevis	1	0810-24SF
2	Super Single RH Drop Leg No Clevis	1	0810-25SF
3	LH Chain Adjusting Lug	1	0810-26
4	RH Chain Adjusting Lug	1	0810-27
5	Forged Clevis 21mm Bolt Hole	2	0801-FC21
6	Stainless Steel Wear Bush	2	1501-365033-SS
7	M24 x 140 grade 8.8 zp Bolt	2	0211-24140
8	Nyloc Nut M24	2	0221-NYL24
9	M36 x 105 grade 8.8 zp Bolt	2	0211-36105
10	Nyloc Nut M36	2	0221-NYL36



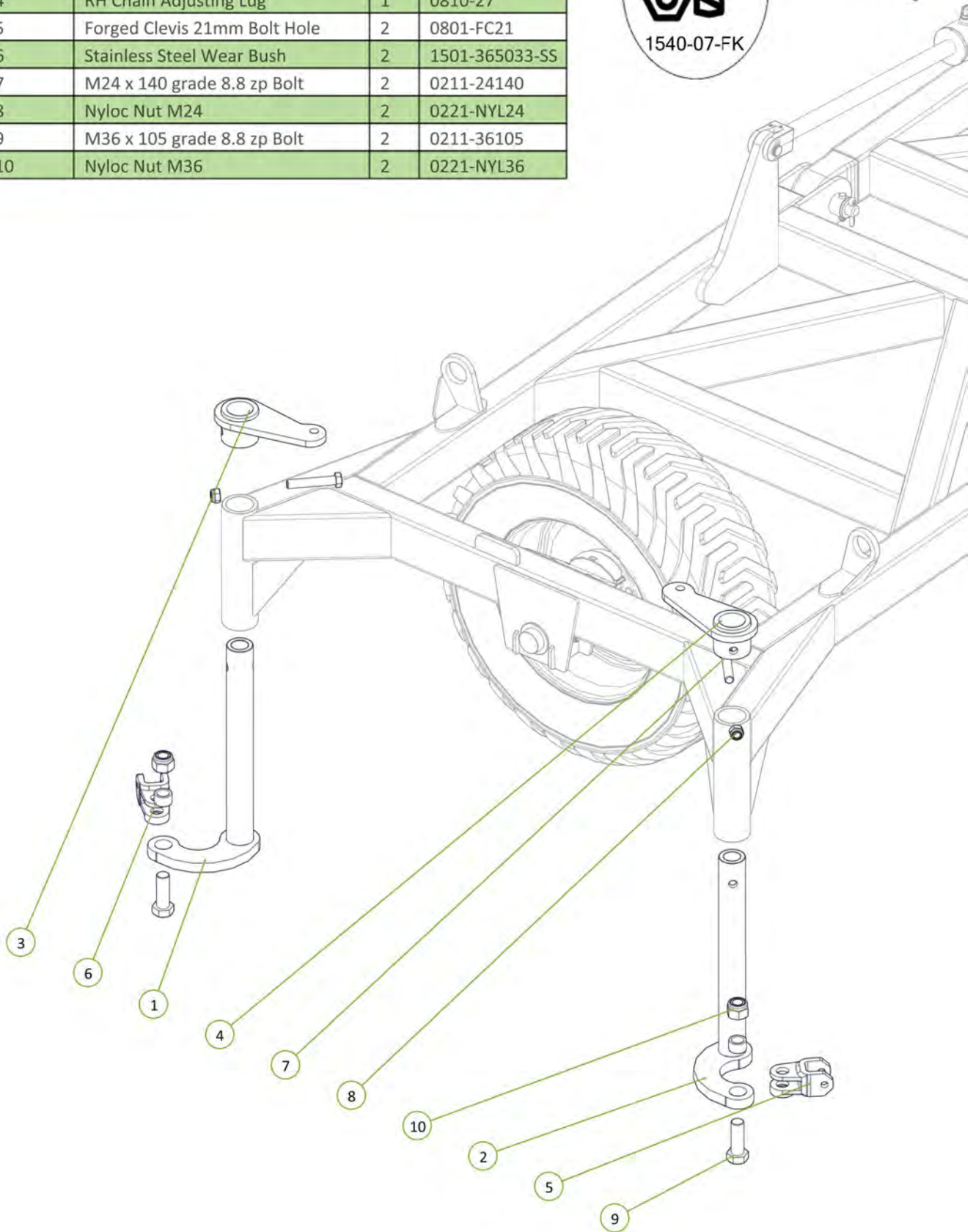
Item No.	Description	Qty	Number
1	Cast 25mm Spacing	24	0801-CS25
2	M10 x 30 grade 8.8 ZP Bolt	24	0211-1030
3	Nyloc Nut M10	24	0221-NYL10



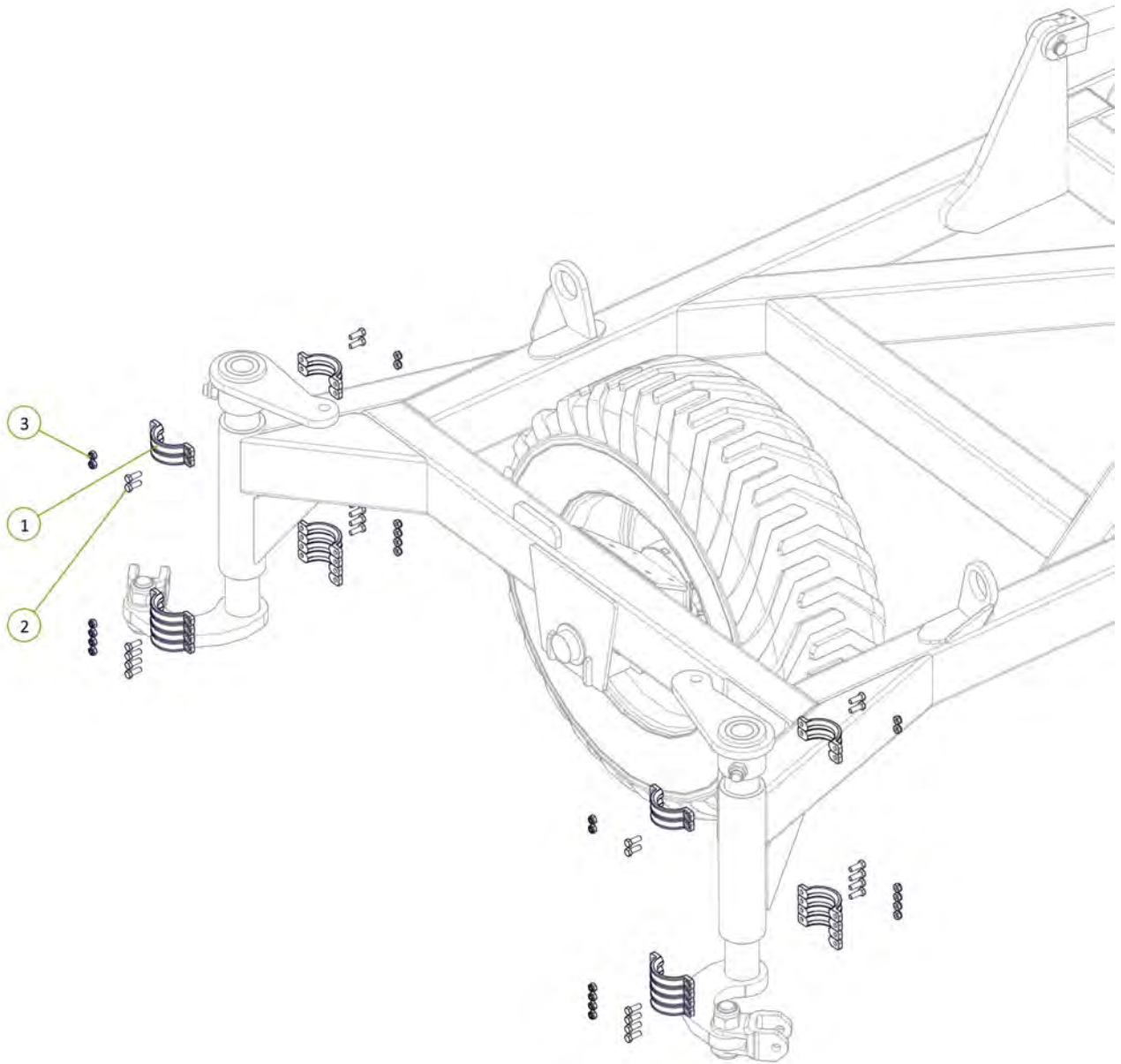
Item No.	Description	Qty	Number
1	Chain Tension Adjustor	2	0802-PCHTA
2	20mm Compression Spring	2	0801-XK9261S
3	Tensioner Cup - Male	2	0801-KE0805-3
4	Female Spring Locator	2	0801-KE0805-4
5	Washer High Tensile 1 1/4"	2	0232-HT11-4



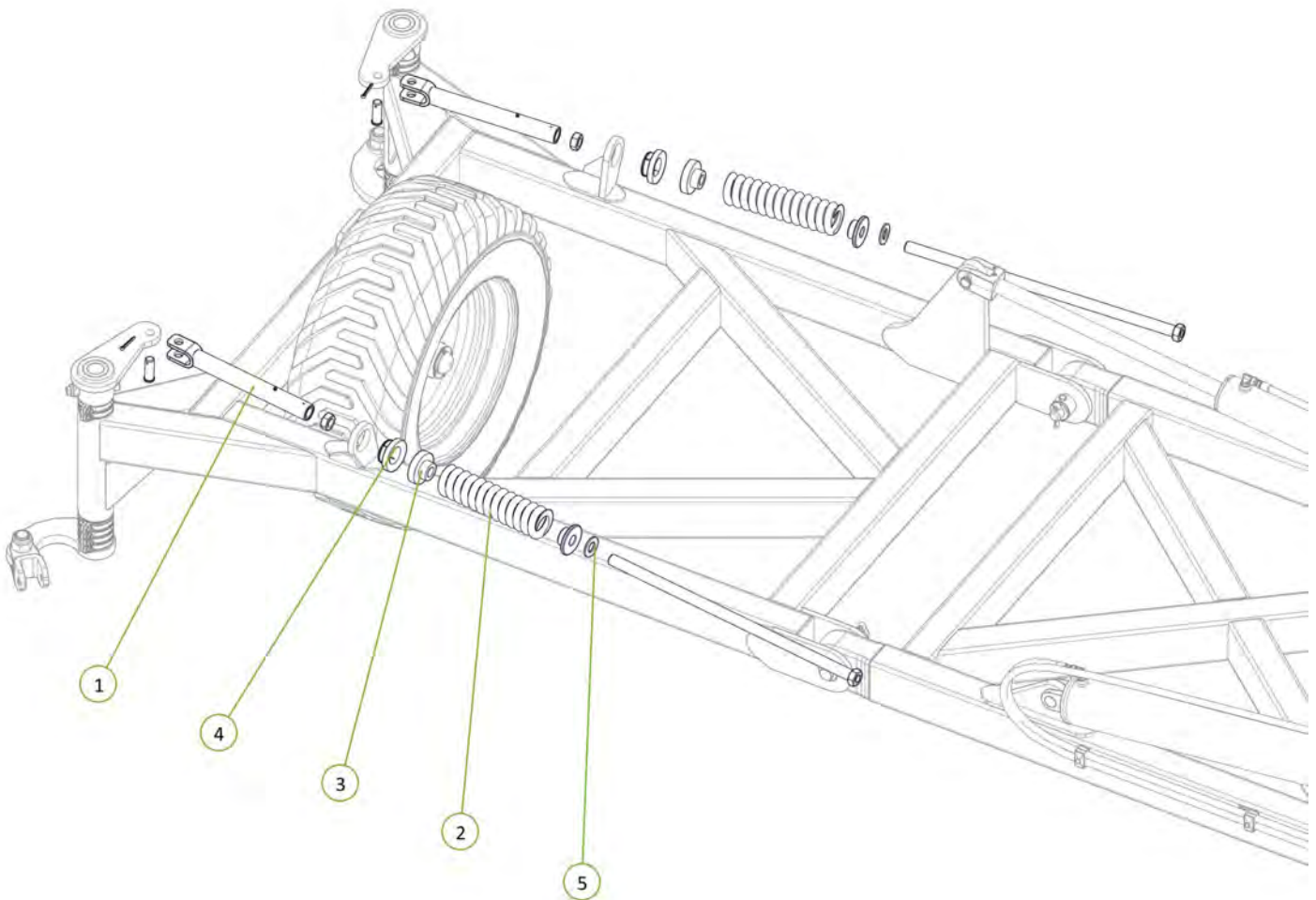
Item No.	Description	Qty	Number
1	Super Single LH Drop Leg No Clevis	1	0810-24SF
2	Super Single RH Drop Leg No Clevis	1	0810-25SF
3	LH Chain Adjusting Lug	1	0810-26
4	RH Chain Adjusting Lug	1	0810-27
5	Forged Clevis 21mm Bolt Hole	2	0801-FC21
6	Stainless Steel Wear Bush	2	1501-365033-SS
7	M24 x 140 grade 8.8 zp Bolt	2	0211-24140
8	Nyloc Nut M24	2	0221-NYL24
9	M36 x 105 grade 8.8 zp Bolt	2	0211-36105
10	Nyloc Nut M36	2	0221-NYL36

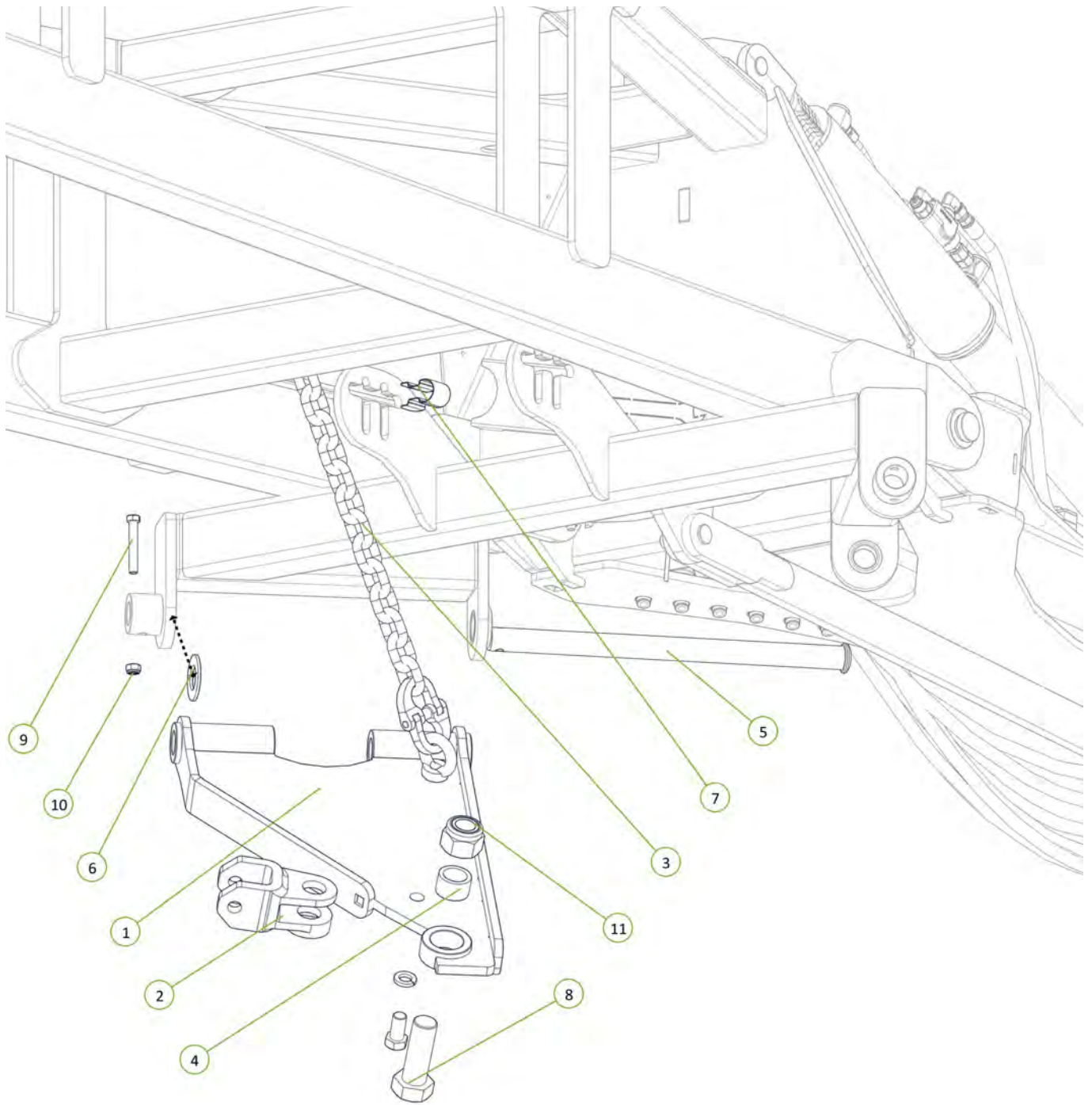


Item No.	Description	Qty	Number
1	Cast 25mm Spacing	24	0801-CS25
2	M10 x 30 grade 8.8 ZP Bolt	24	0211-1030
3	Nyloc Nut M10	24	0221-NYL10



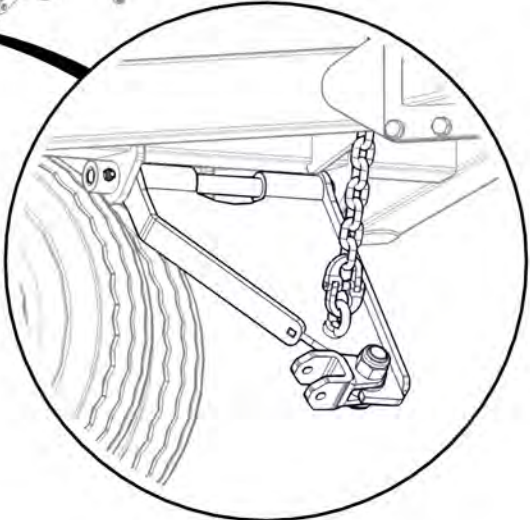
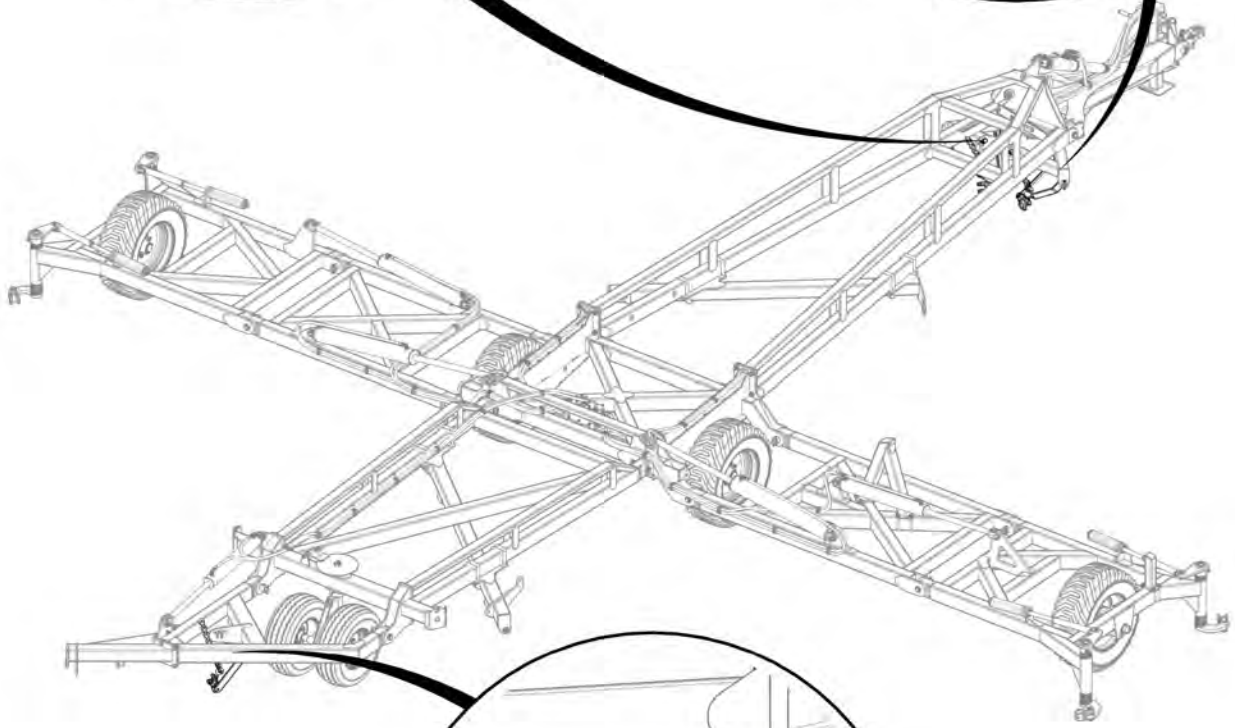
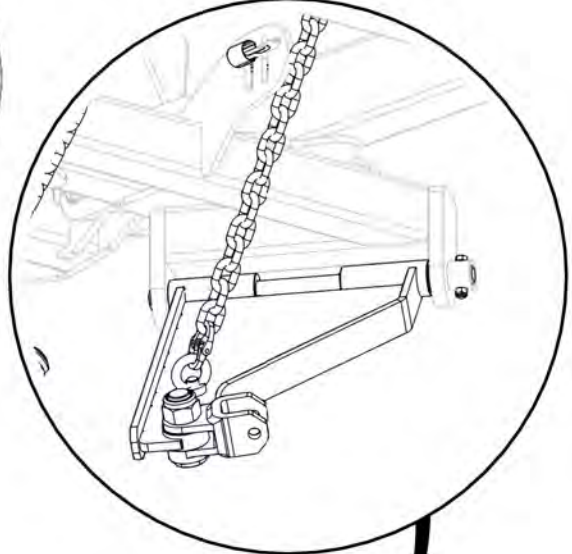
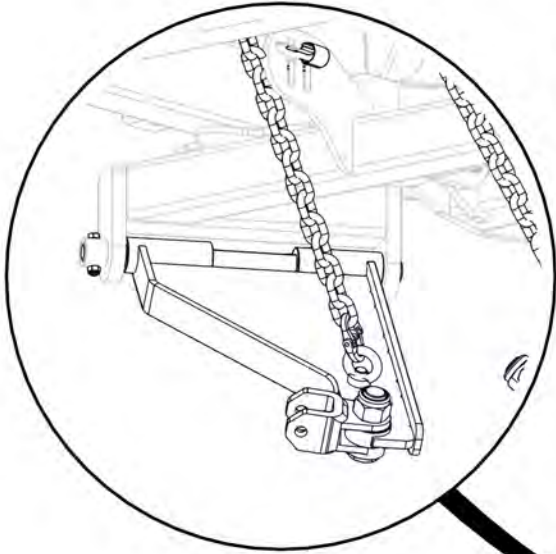
Item No.	Description	Qty	Number
1	Chain Tension Adjustor	2	0802-PCHTA
2	20mm Compression Spring	2	0801-XK9261S
3	Tensioner Cup - Male	2	0801-KE0805-3
4	Female Spring Locator	2	0801-KE0805-4
5	Washer High Tensile 1 1/4"	2	0232-HT11-4





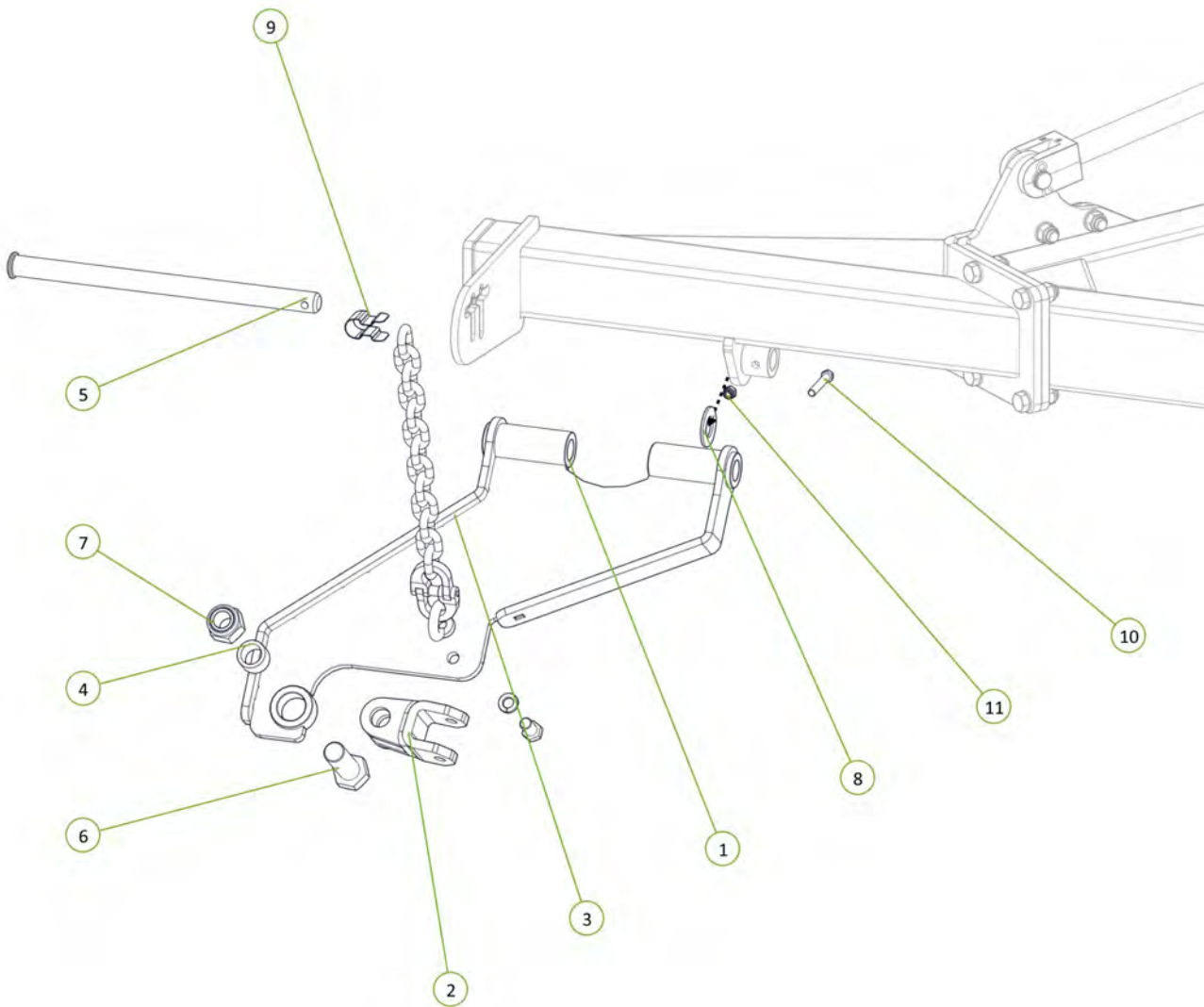
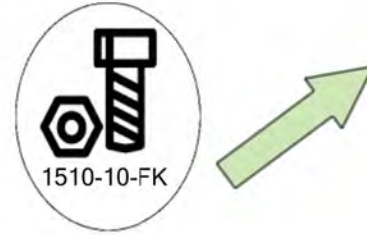
Item No.	Description	Qty	Number
1	Standard Chain Mount Plate	1	0810-20
2	Forged Clevis 21mm Bolt Hole	1	0801-FC21
3	Height Adjusting Chain Assembly 13 Link	1	0801-20MCA
4	Stainless Steel Wear Bush	1	1501-365033-SS
5	Chain Mount Pivot Pin	1	0801-10-51
6	Washer High Tensile 1 3/8"	1	0232-HT13-8
7	Height Adjustor Retaining Clip	1	0801-KE014
8	M36 Grade 8.8 ZP Bolt	1	0211-36105
9	M12 x 75 grade 8.8 ZP Bolt	1	0211-1275
10	Nyloc Nut M12	1	0221-NYL12
11	Nyloc Nut M36	1	0221-NYL36



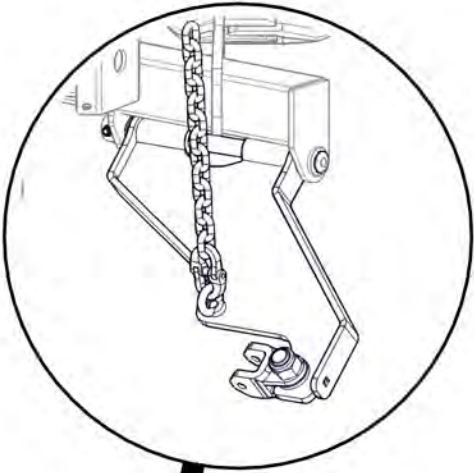


1510-40-FK

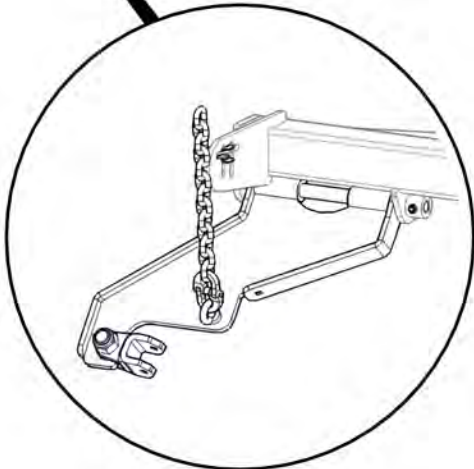
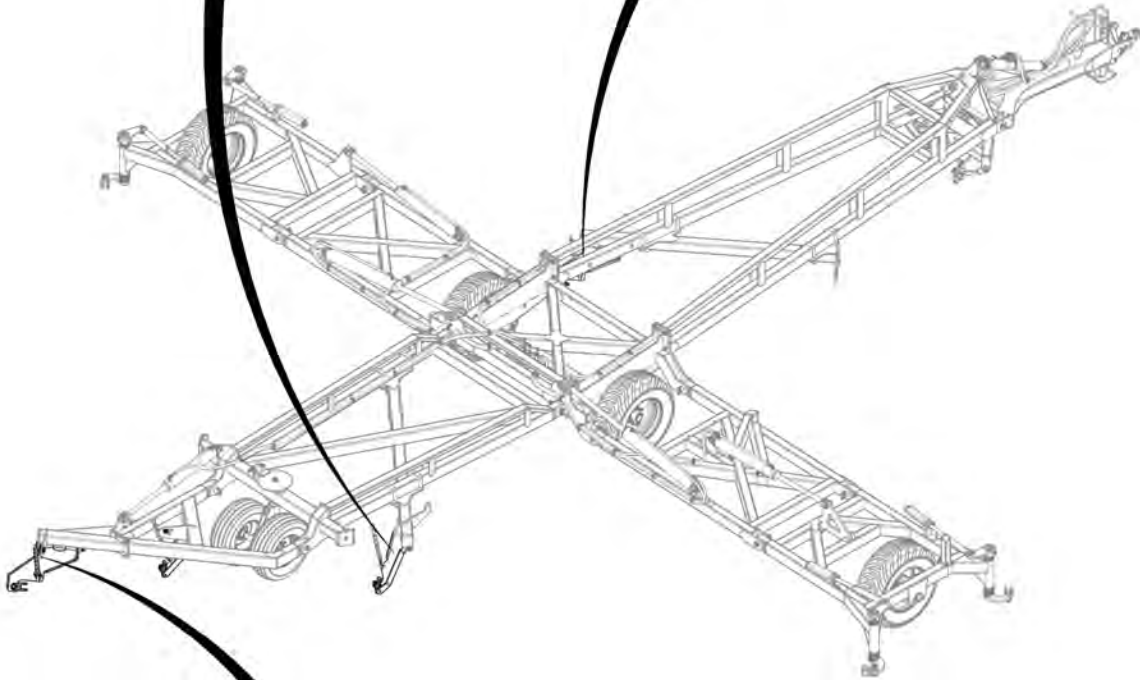
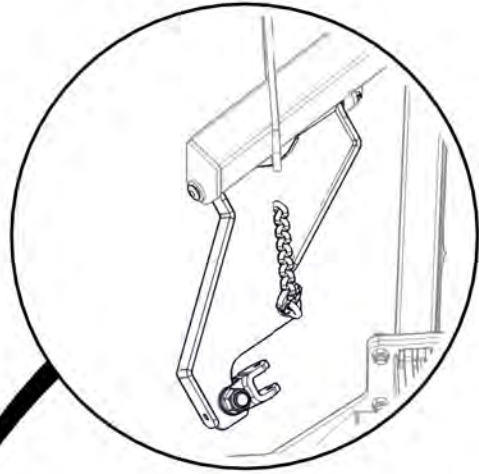
Item No.	Description	Qty	Number
1	Extended Chain Mount Plate	1	0810-21
2	Forged Clevis 21mm Bolt Hole	1	0801-FC21
3	Height Adjusting Chain Assembly 13 Link	1	0801-20MCA
4	Stainless Steel Wear Bush	1	1501-365033-SS
5	Chain Mount Pivot Pin	1	0801-10-51
6	M36 x 105 grade 8.8 zp Bolt	1	0211-36105
7	Nyloc Nut M36	1	0221-NYL36
8	Washer High Tensile 1 3/8"	1	0232-HT13-8
9	Height Adjustor Retaining Clip	1	0801-KE014
10	M12 x 75 grade 8.8 ZP Bolt	1	0211-1275
11	Nyloc Nut M12	1	0221-NYL12



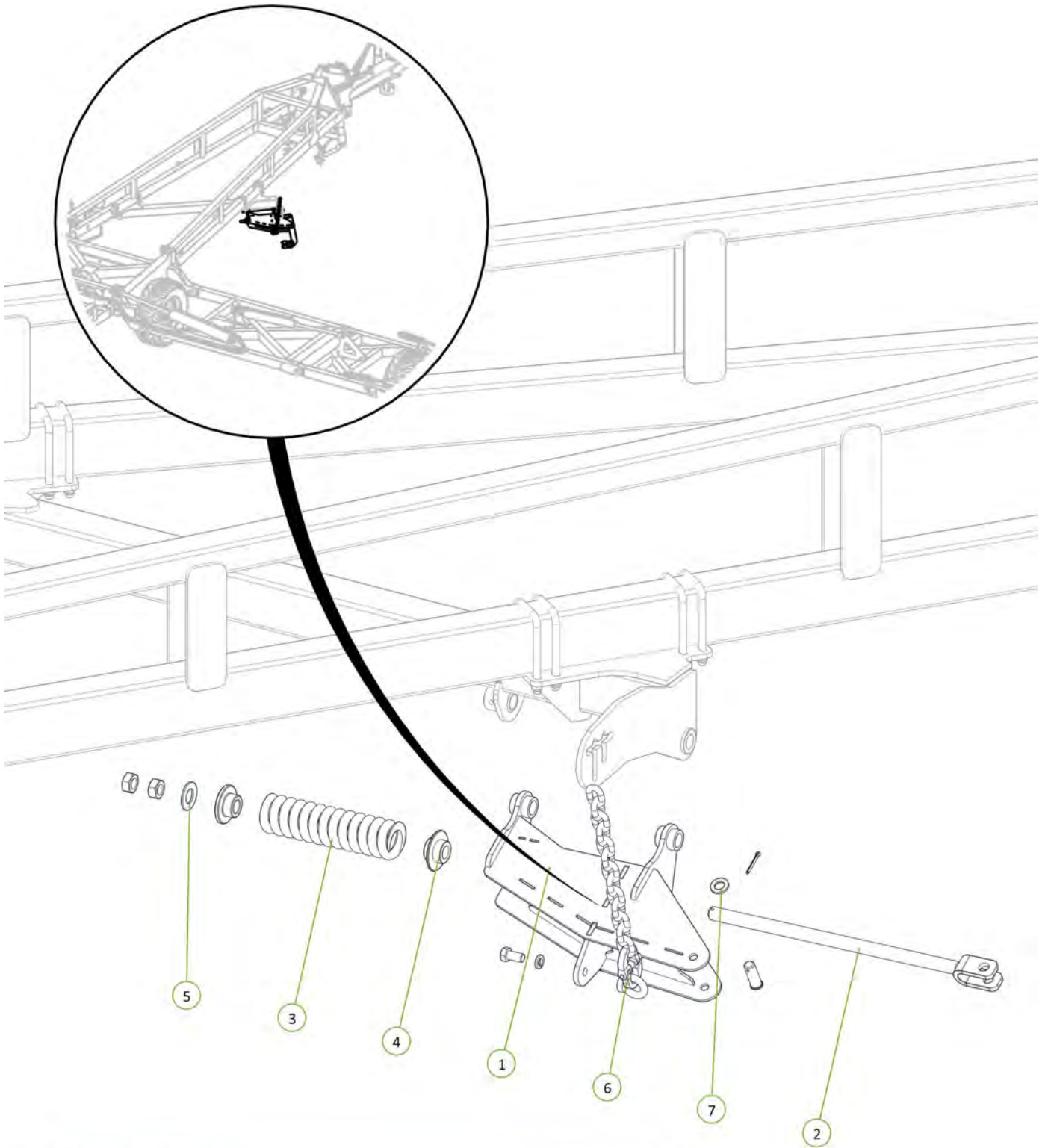
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1510-28-12-FK

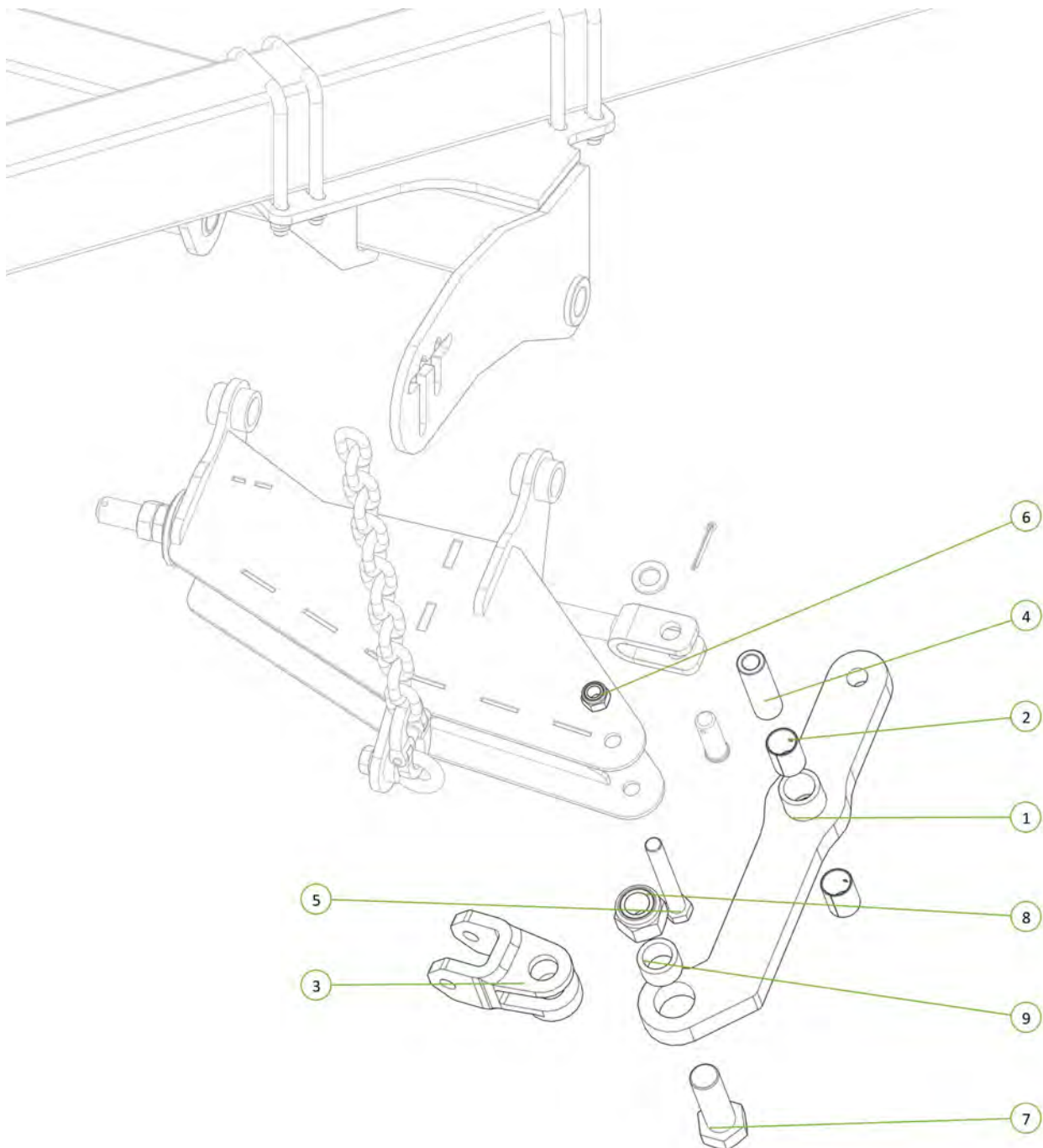


1510-40-FK



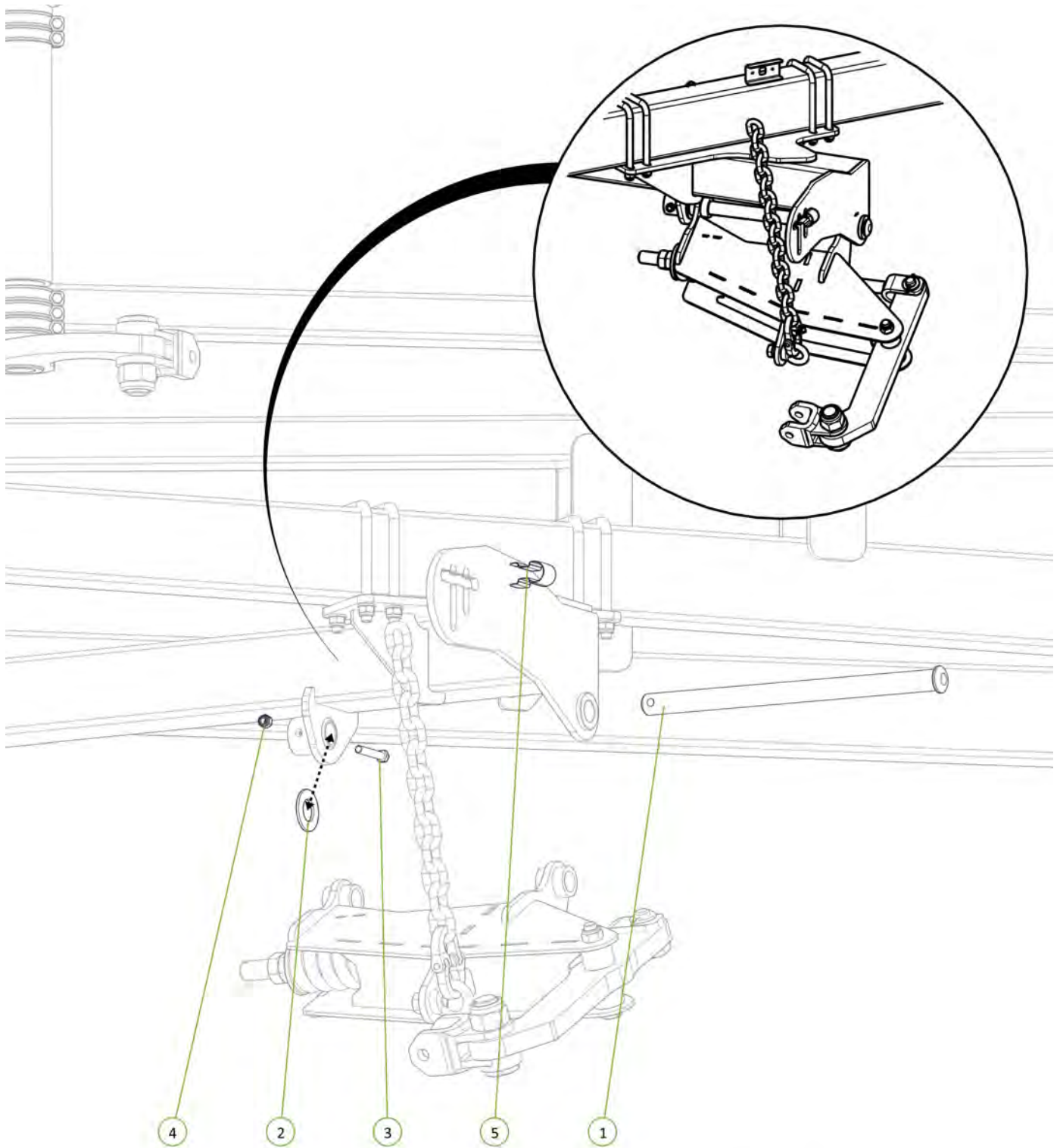
Item No.	Description	Qty	Number
1	Rear Module Tension Body	1	0810-103R
2	Module Tension Rod Assembly	1	0810-105A
3	20mm Compression Spring	1	0801-XK9261S
4	Rigid Spring Locator	1	0801-10-S2L
5	Washer High Tensile 1 3/8"	1	0232-HT13-8
6	Height Adjusting Chain Assembly 13 Link	1	0801-20MCA
7	Washer Flat M24	1	0231-F24





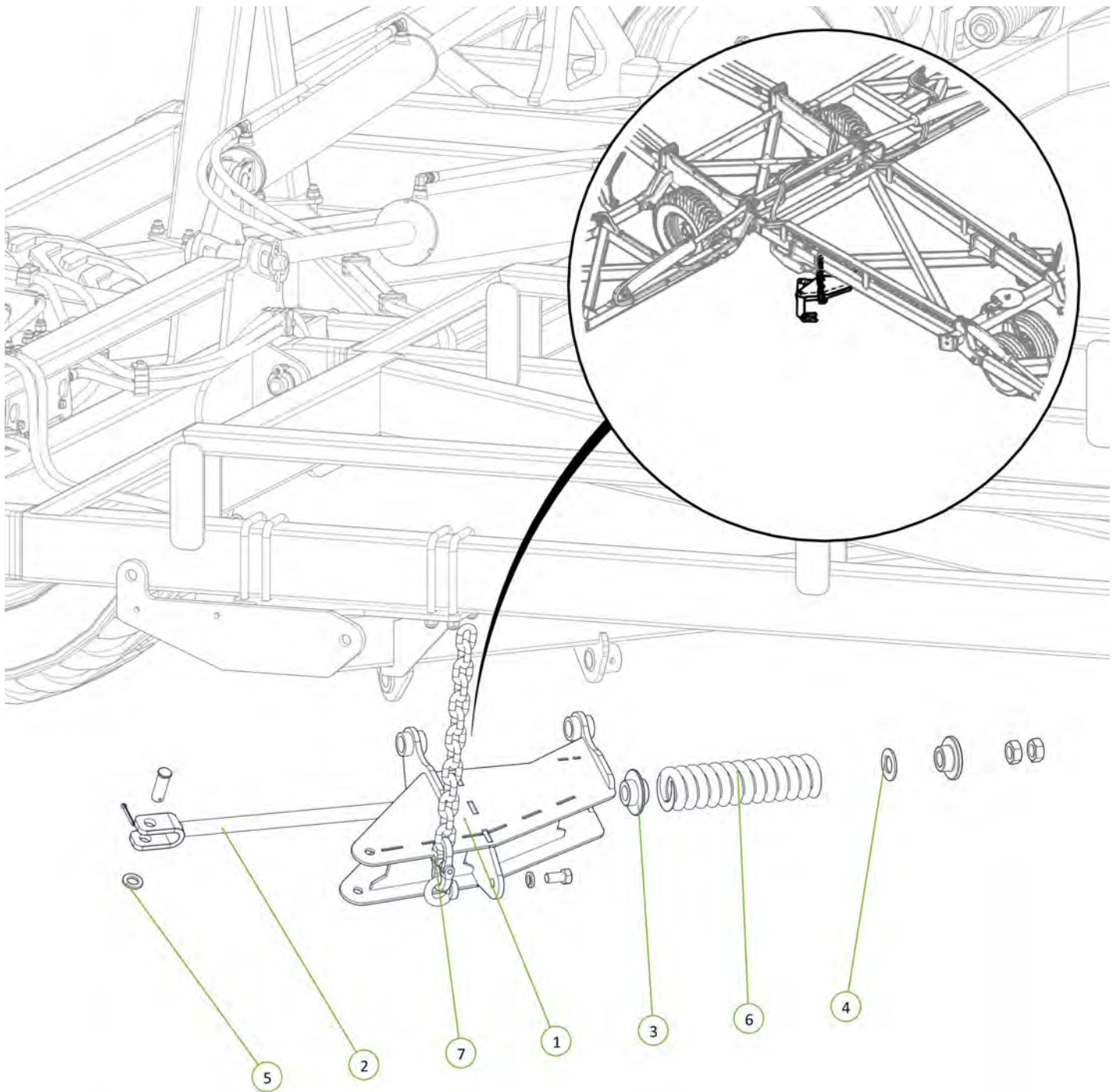
Item No.	Description	Qty	Number
1	Module Tension Arm No Clevis	1	0810-104F
2	35 ID x 50mm DX Bush	2	0113-MB 3550DX
3	Forged Clevis 21mm Bolt Hole	1	0801-FC21
4	Module Pivot Arm Bush	1	0801-10-110
5	M20 x 150 grade 8.8 ZP Bolt	1	0211-20150
6	Nyloc Nut M20	1	0221-NYL20
7	M36 x 105 grade 8.8 zp Bolt	1	0211-36105
8	Nyloc Nut M36	1	0221-NYL36
9	Stainless Steel Wear Bush	1	1501-365033-SS





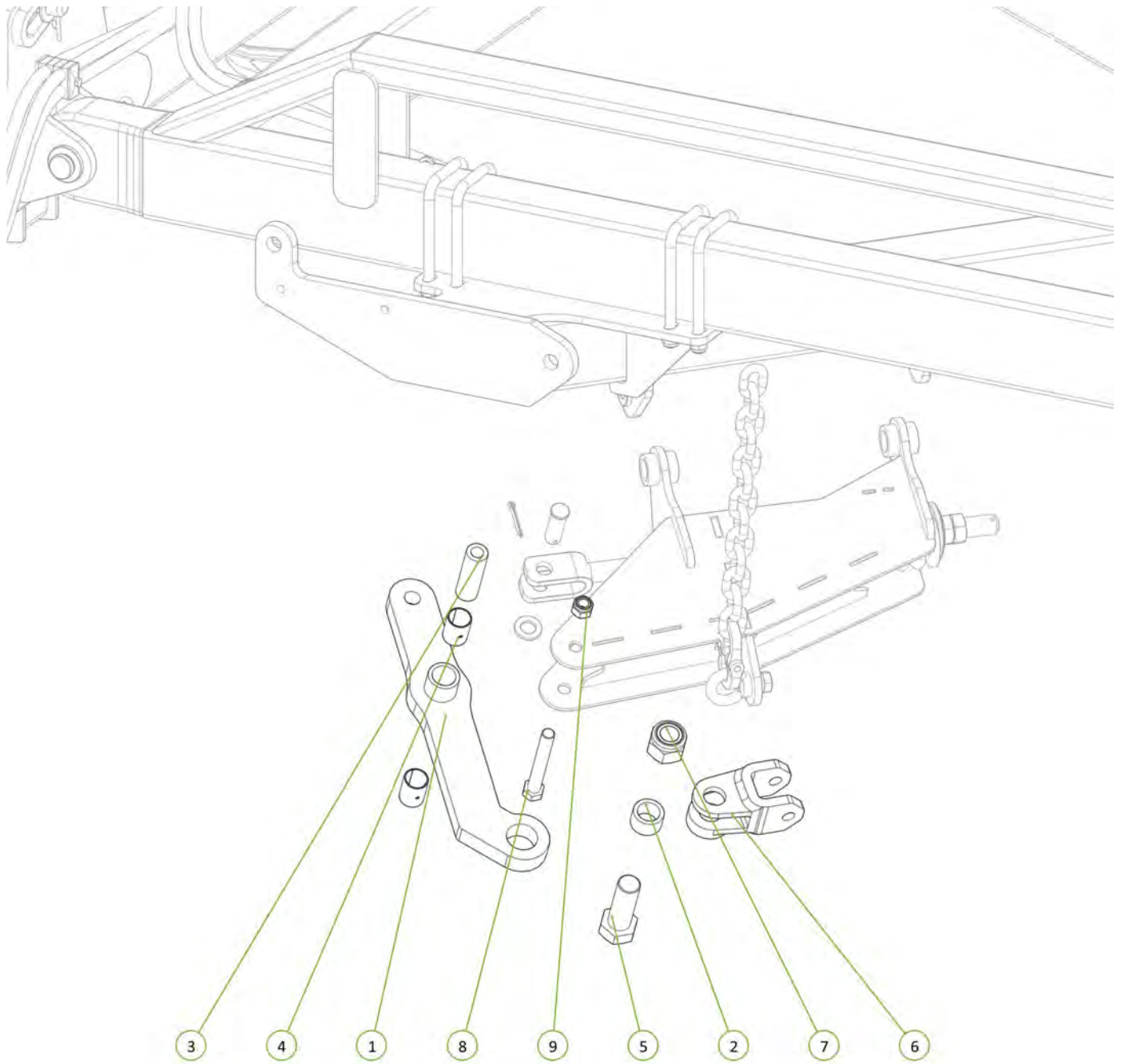
Item No.	Description	Qty	Number
1	Chain Mount Pivot Pin	1	0801-10-51
2	Washer High Tensile 1 3/8"	1	0232-HT13-8
3	M12 x 80 grade 8.8 ZP Bolt	1	0211-1280
4	Nyloc Nut M12	1	0221-NYL12
5	Height Adjustor Retaining Clip	1	0801-KE014





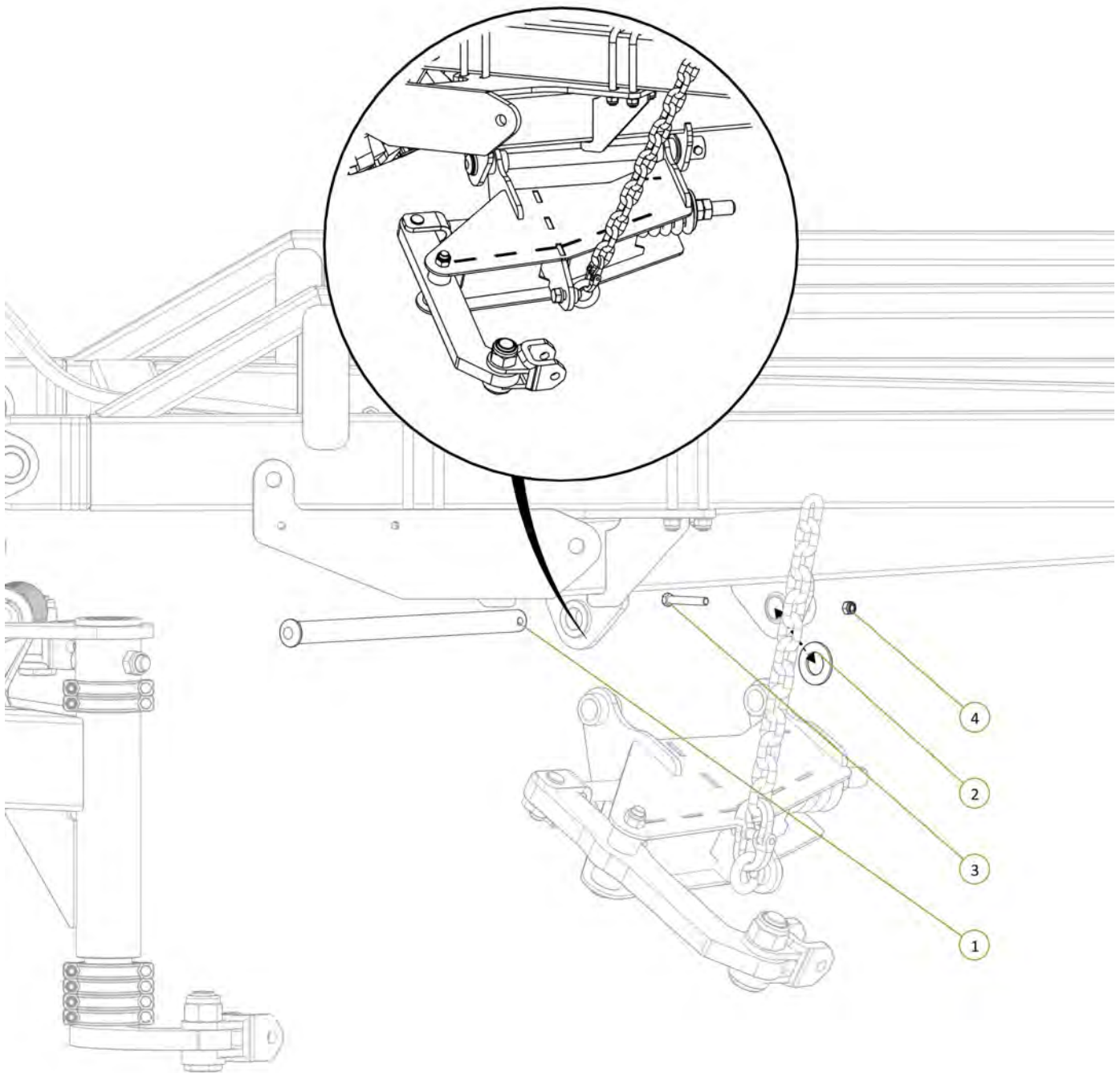
Item No.	Description	Qty	Number
1	Front Module Tension Body	1	0810-103F
2	Module Tension Rod Assembly	1	0810-105A
3	Rigid Spring Locator	1	0801-10-S2L
4	Washer High Tensile 1 3/8"	1	0232-HT13-8
5	Washer Flat M24	1	0231-F24
6	20mm Compression Spring	1	0801-XK9261S
7	Height Adjusting Chain Assembly 13 Link	1	0801-20MCA



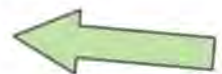


Item No.	Description	Qty	Number
1	Module Tension Arm	1	0810-104
2	Stainless Steel Wear Bush	1	1501-365033-SS
3	Module Pivot Arm Bush	1	0801-10-110
4	35 ID x 50mm DX Bush	2	0113-MB 3550DX
5	M36 x 105 grade 8.8 zp Bolt	1	0211-36105
6	Forged Clevis 21mm Bolt Hole	1	0801-FC21
7	Nyloc Nut M36	1	0221-NYL36
8	M20 x 150 grade 8.8 ZP Bolt	1	0211-20150
9	Nyloc Nut M20	1	0221-NYL20

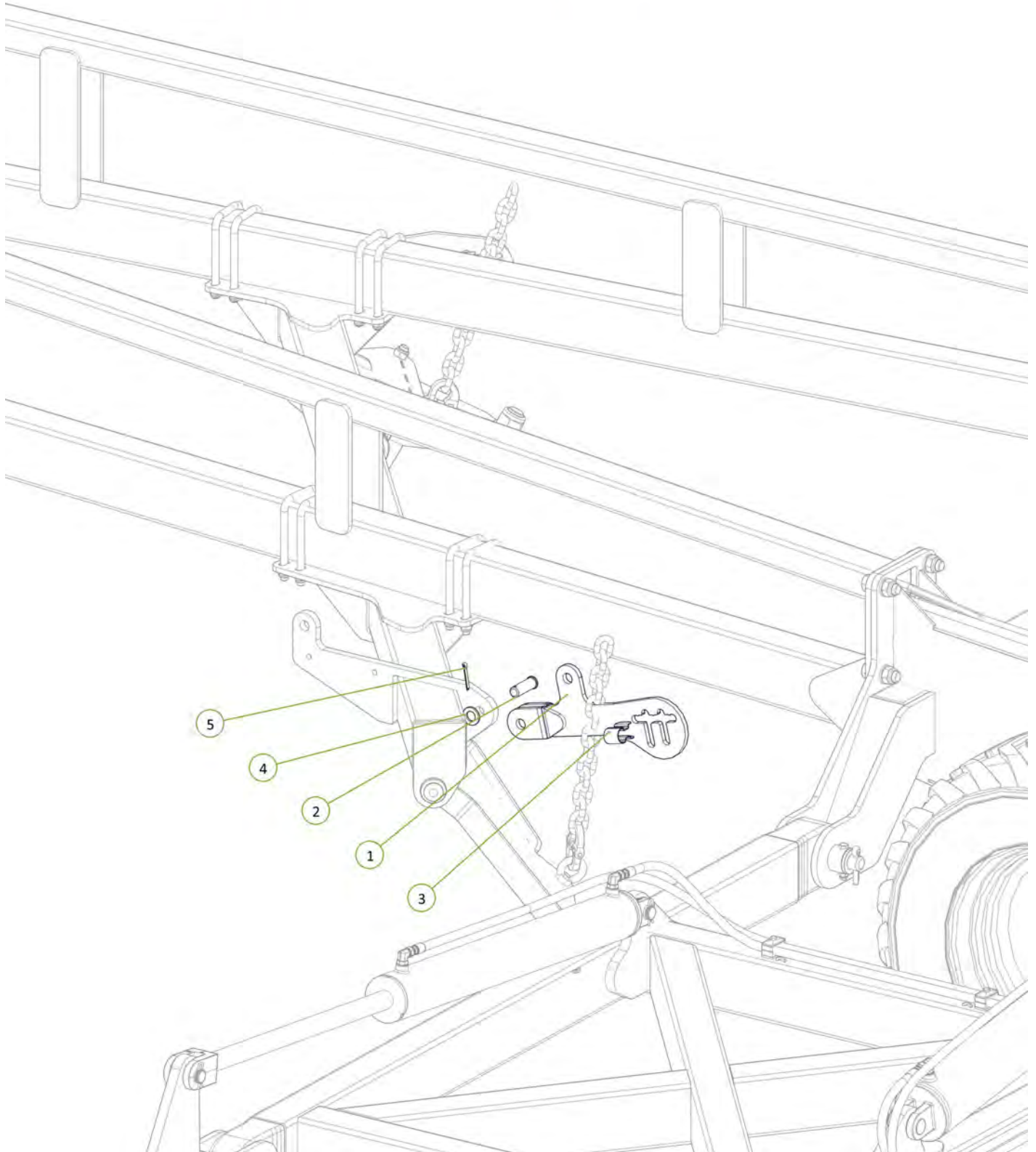




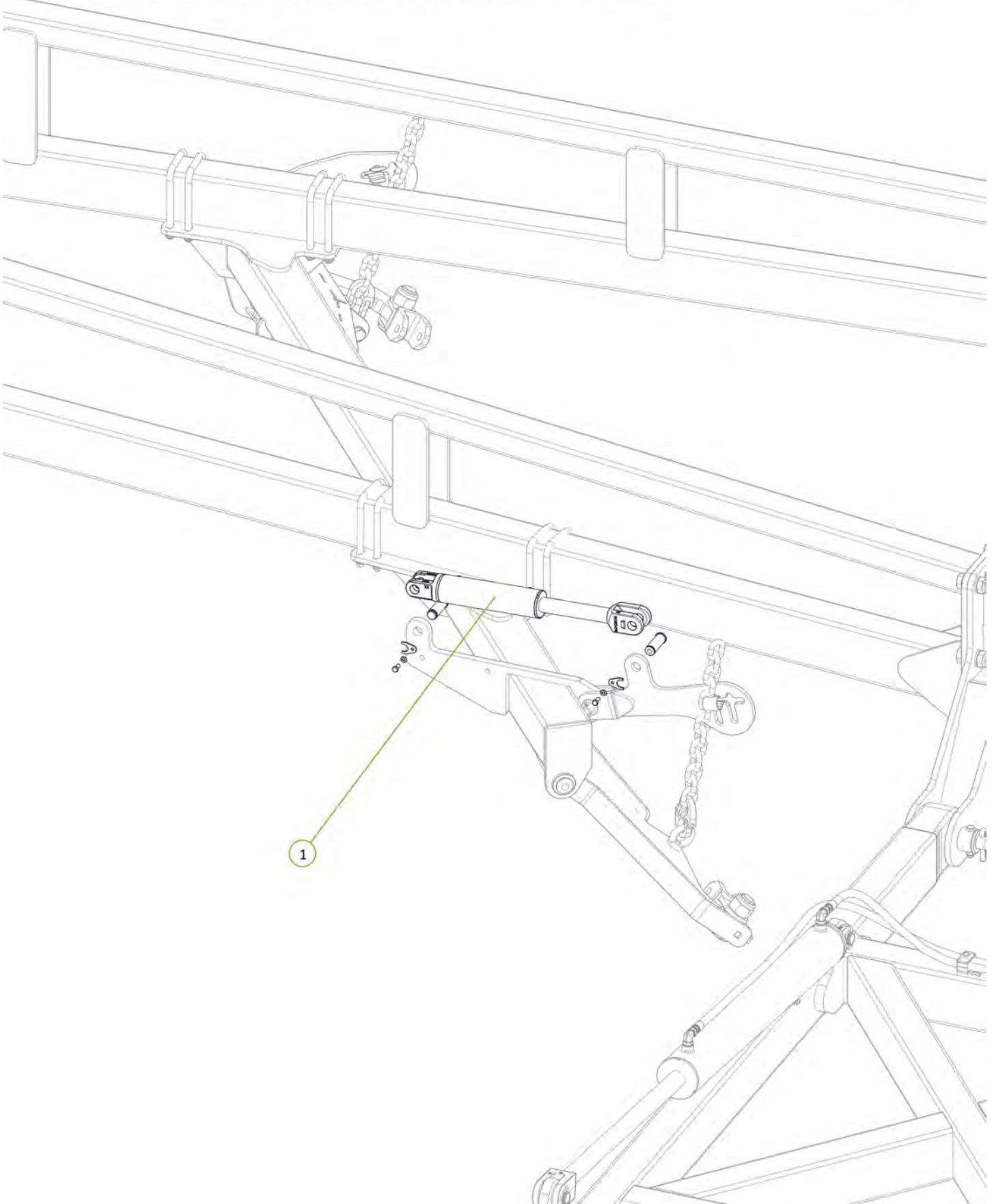
Item No.	Description	Qty	Number
1	Chain Mount Pivot Pin	1	0801-10-51
2	Washer High Tensile 1 3/8"	1	0232-HT13-8
3	M12 x 75 grade 8.8 ZP Bolt	1	0211-1280
4	Nyloc Nut M12	1	0221-NYL12



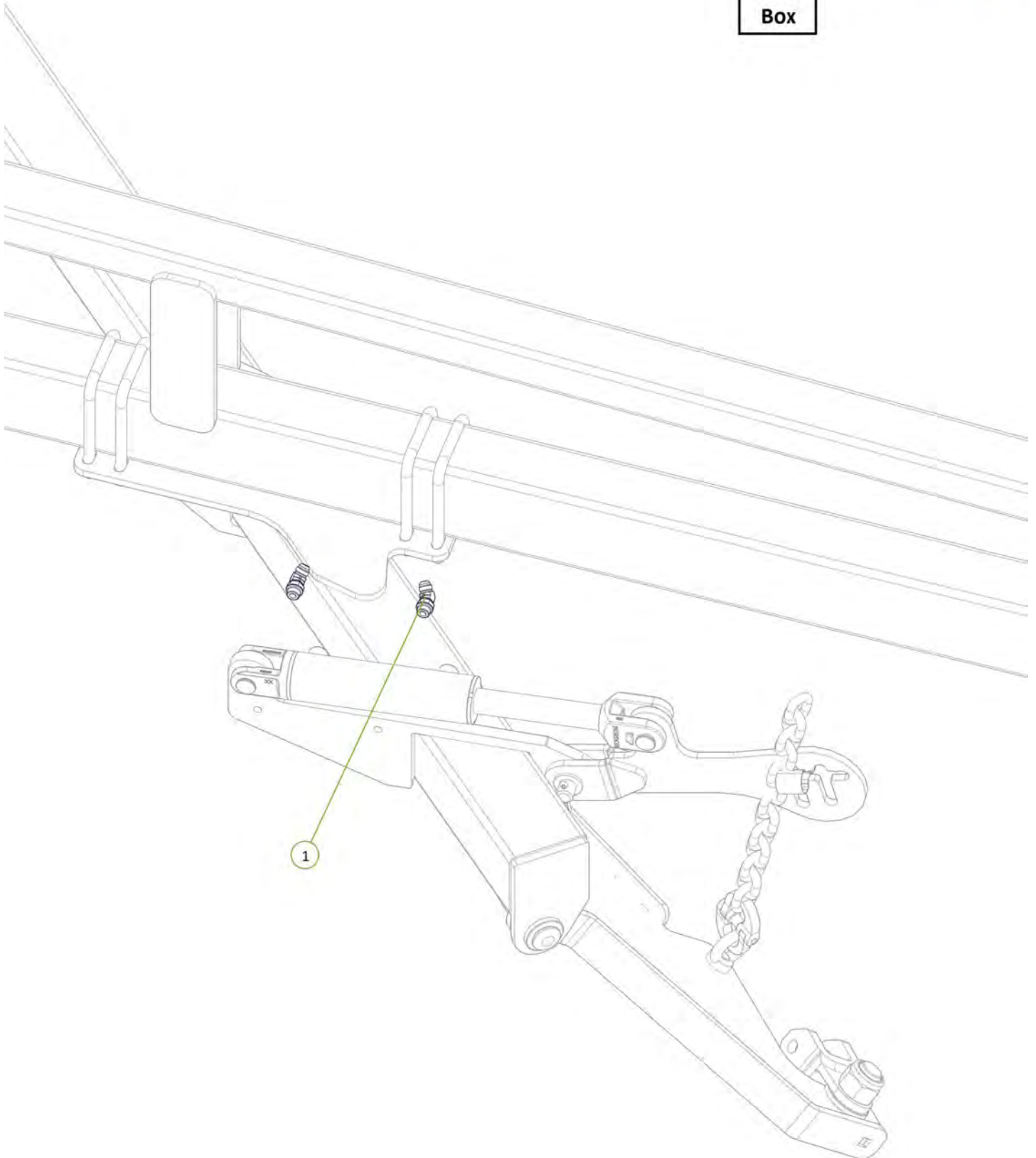
Item No.	Description	Qty	Number
1	Long Module Lift Arm	1	1610-106
2	Clevis Pin 25mm x 75mm	1	0801-KE0307-1
3	Height Adjustor Retaining Clip	1	0801-KE014
4	Washer Flat M24	1	0231-F24
5	Cotter Pin M5 x 50	1	0261-PINC550



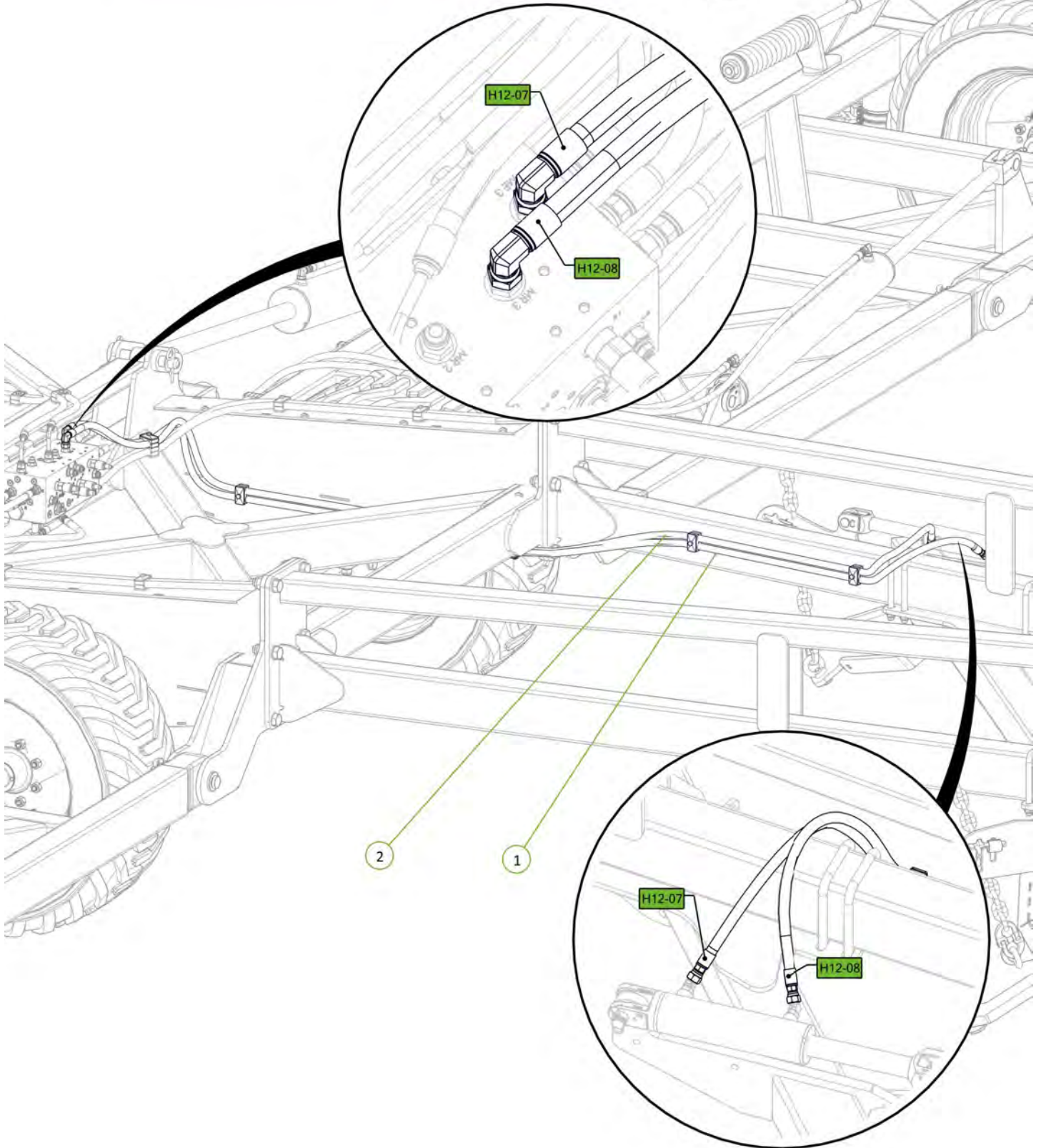
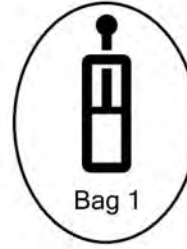
Item No.	Description	Qty	Number
1	2.5" Bore x 6" Stroke 1.5" Rod Side Port Cylinder	1	0311-256SP



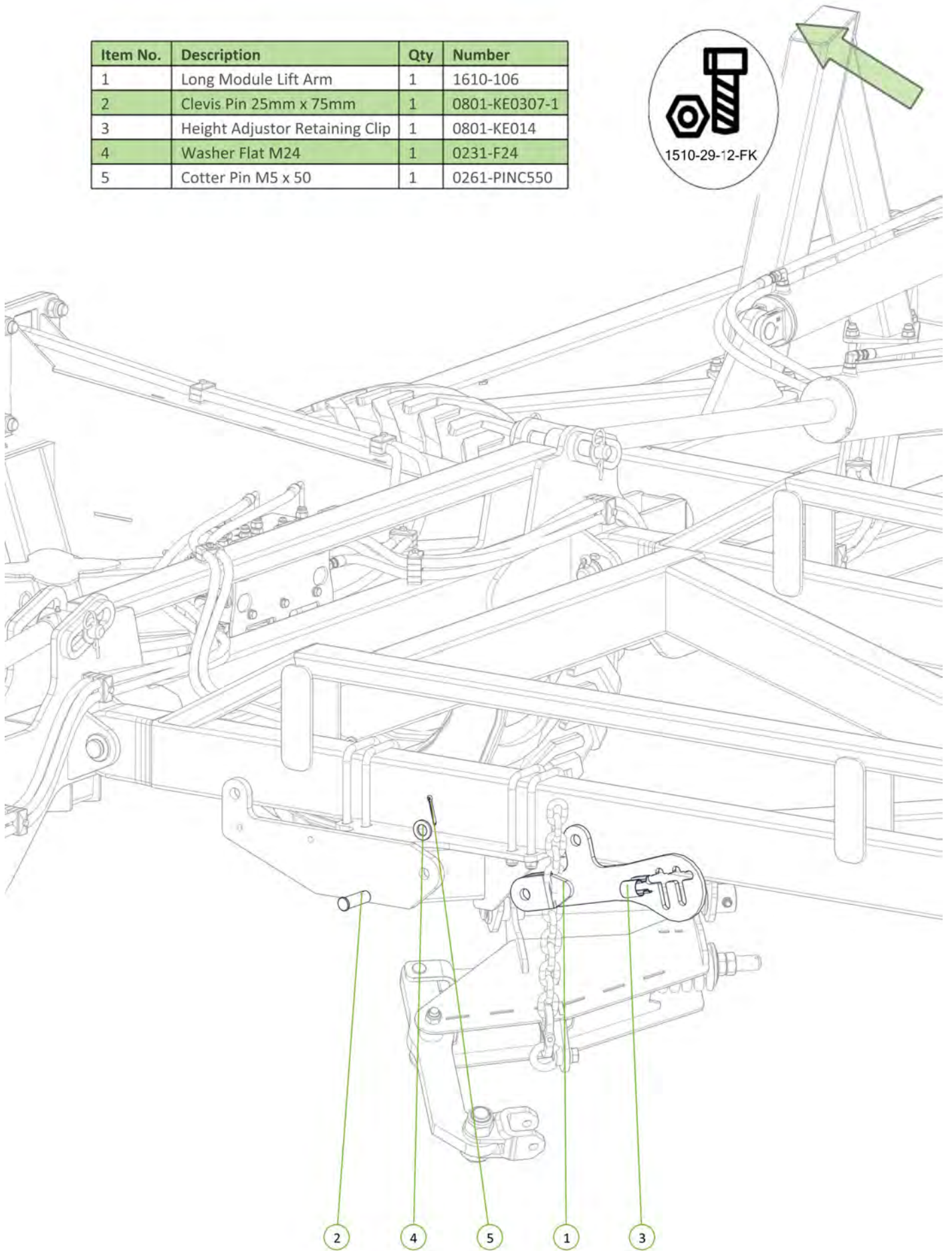
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 45° Elbow	2	0323-S88-1212



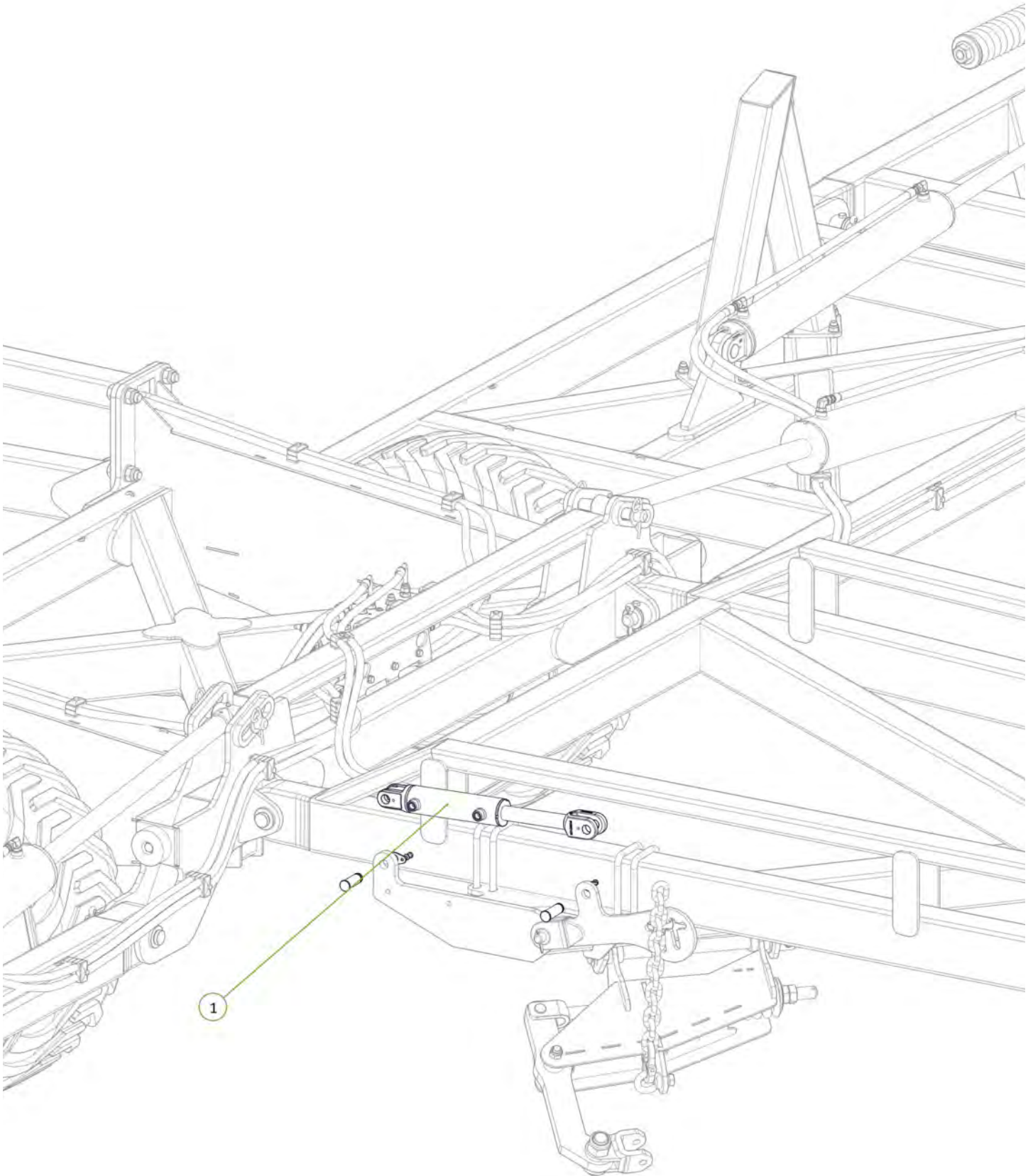
Item No.	Description	Qty	Number
1	ME3 to Front Cylinder Extend Port	1	H12-07
2	MR3 to Front Module Retract Port	1	H12-08

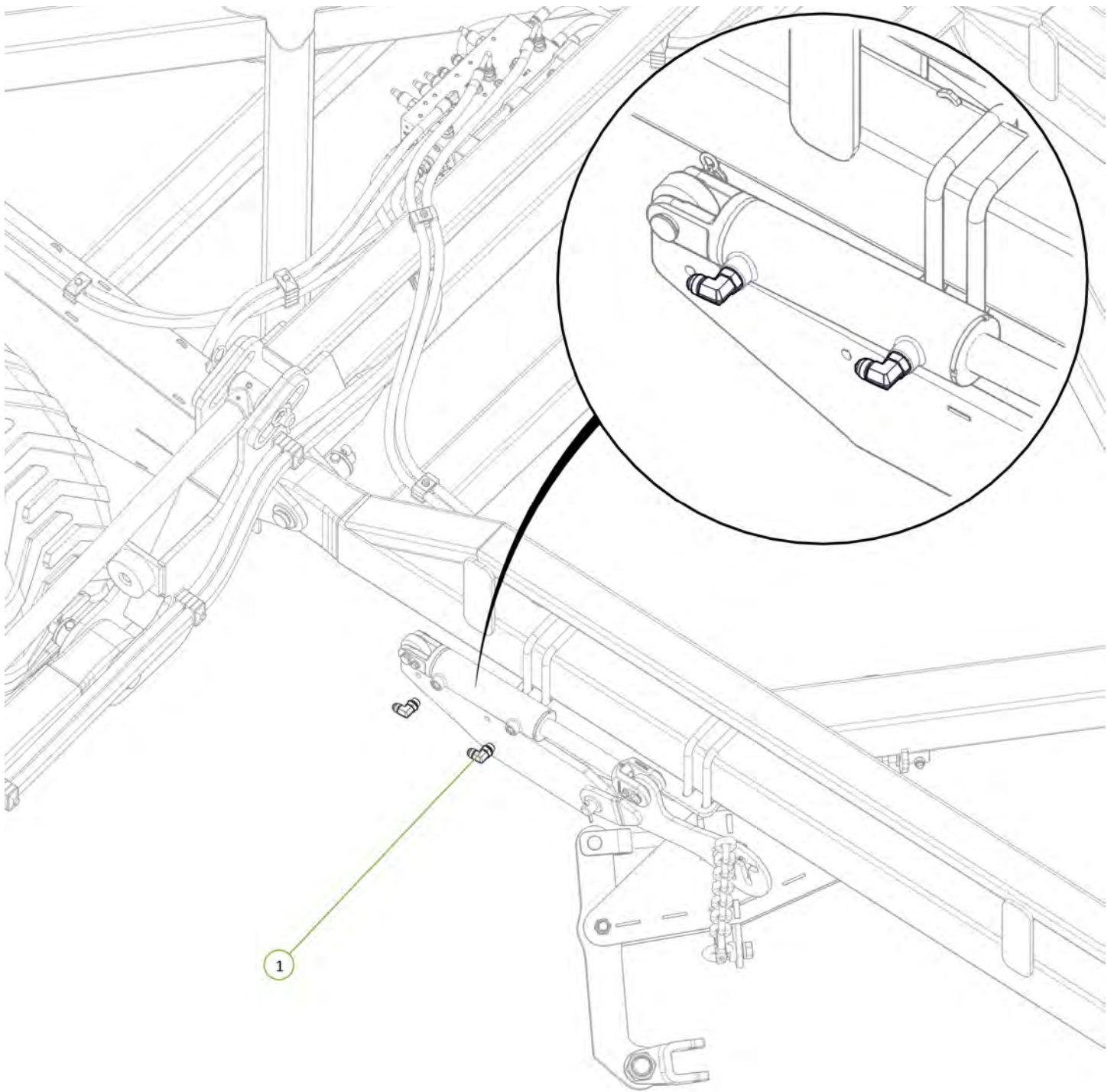


Item No.	Description	Qty	Number
1	Long Module Lift Arm	1	1610-106
2	Clevis Pin 25mm x 75mm	1	0801-KE0307-1
3	Height Adjustor Retaining Clip	1	0801-KE014
4	Washer Flat M24	1	0231-F24
5	Cotter Pin M5 x 50	1	0261-PINC550



Item No.	Description	Qty	Number
1	2.5" Bore x 6" Stroke 1.5" Rod Side Port Cylinder	1	0311-256SP

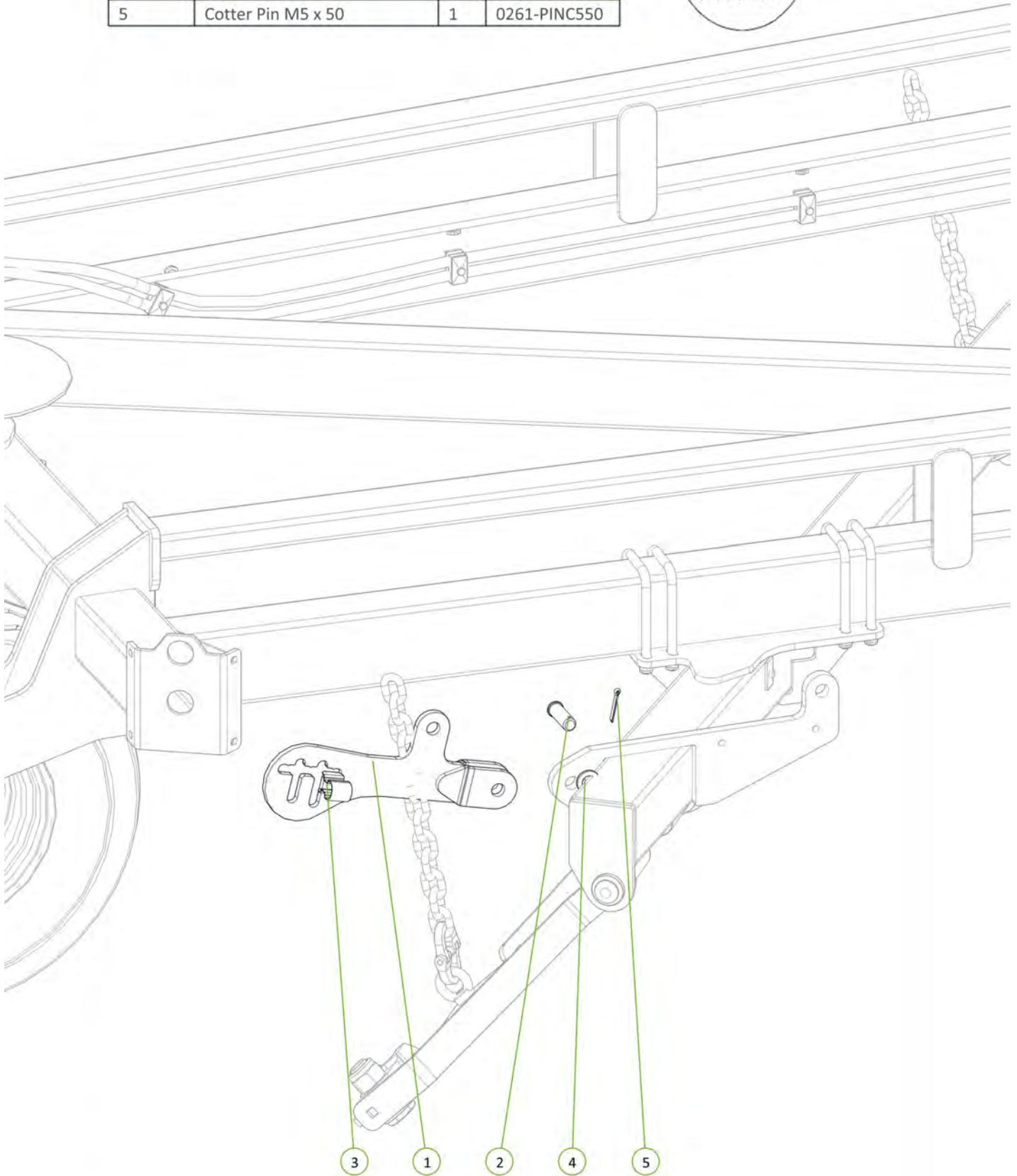




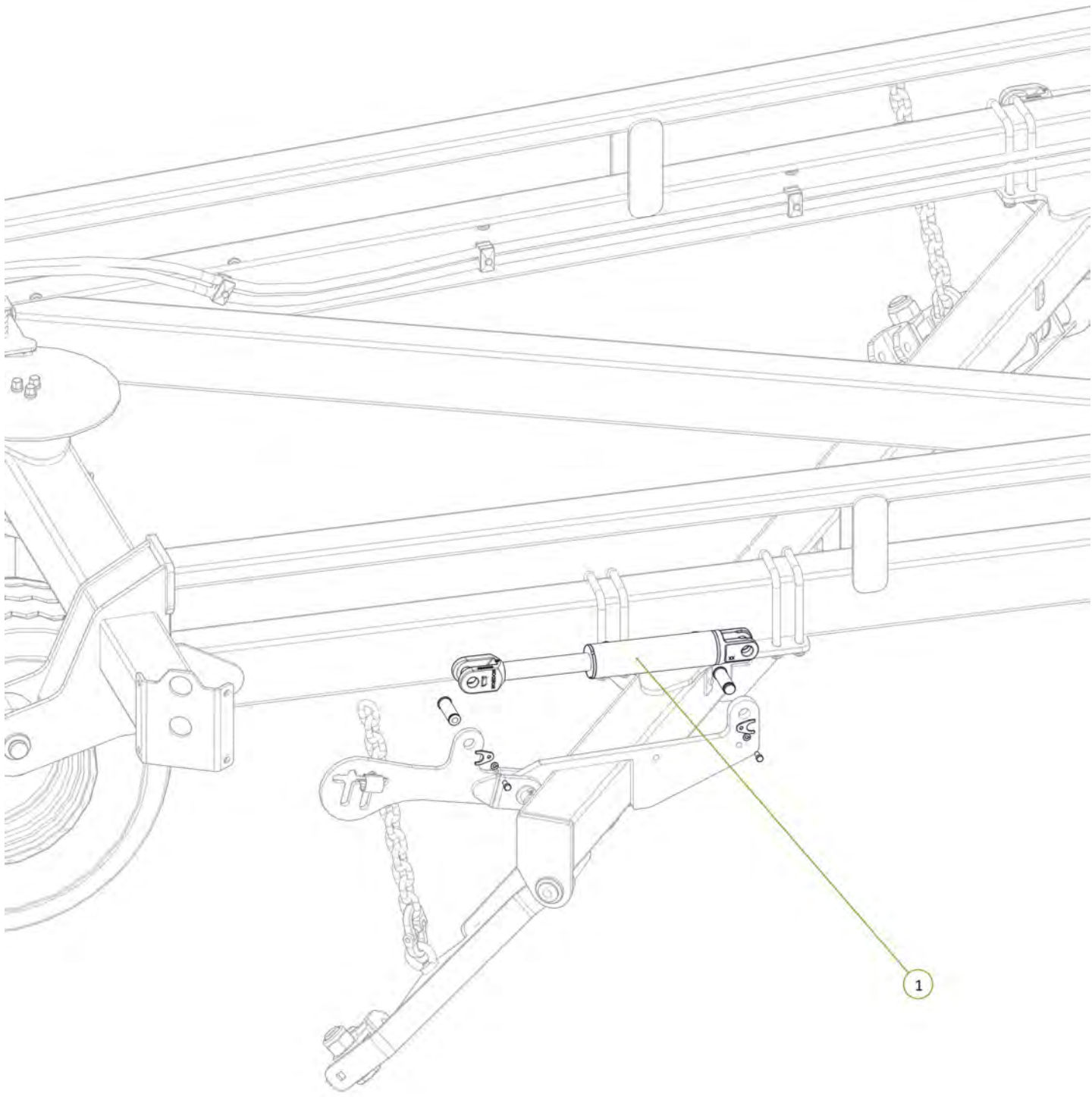
Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212



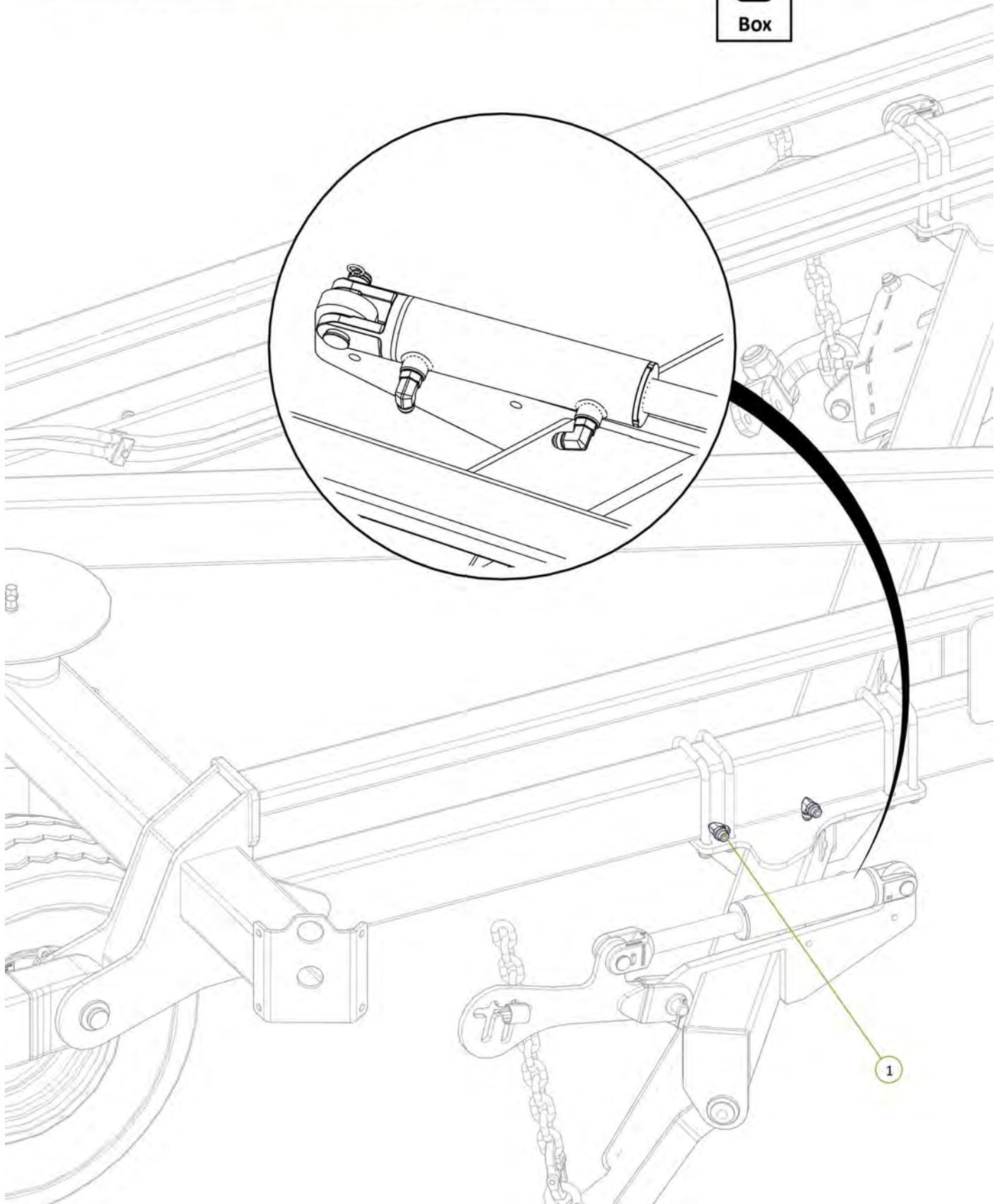
Item No.	Description	Qty	Number
1	Long Module Lift Arm	1	1610-106
2	Clevis Pin 25mm x 75mm	1	0801-KE0307-1
3	Height Adjustor Retaining Clip	1	0801-KE014
4	Washer Flat M24	1	0231-F24
5	Cotter Pin M5 x 50	1	0261-PINC550



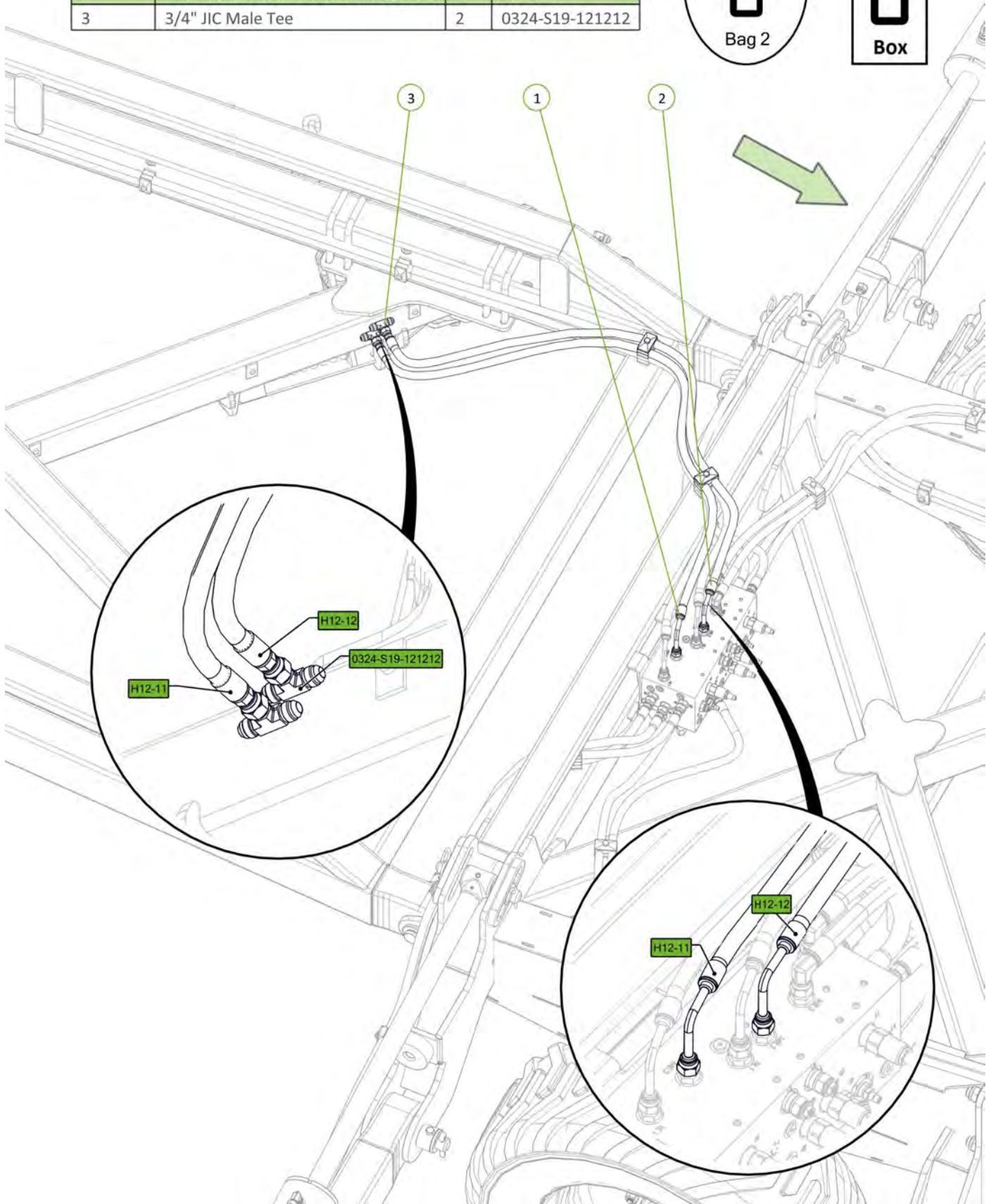
Item No.	Description	Qty	Number
1	2.5" Bore x 6" Stroke 1.5" Rod Side Port Cylinder	1	0311-256SP

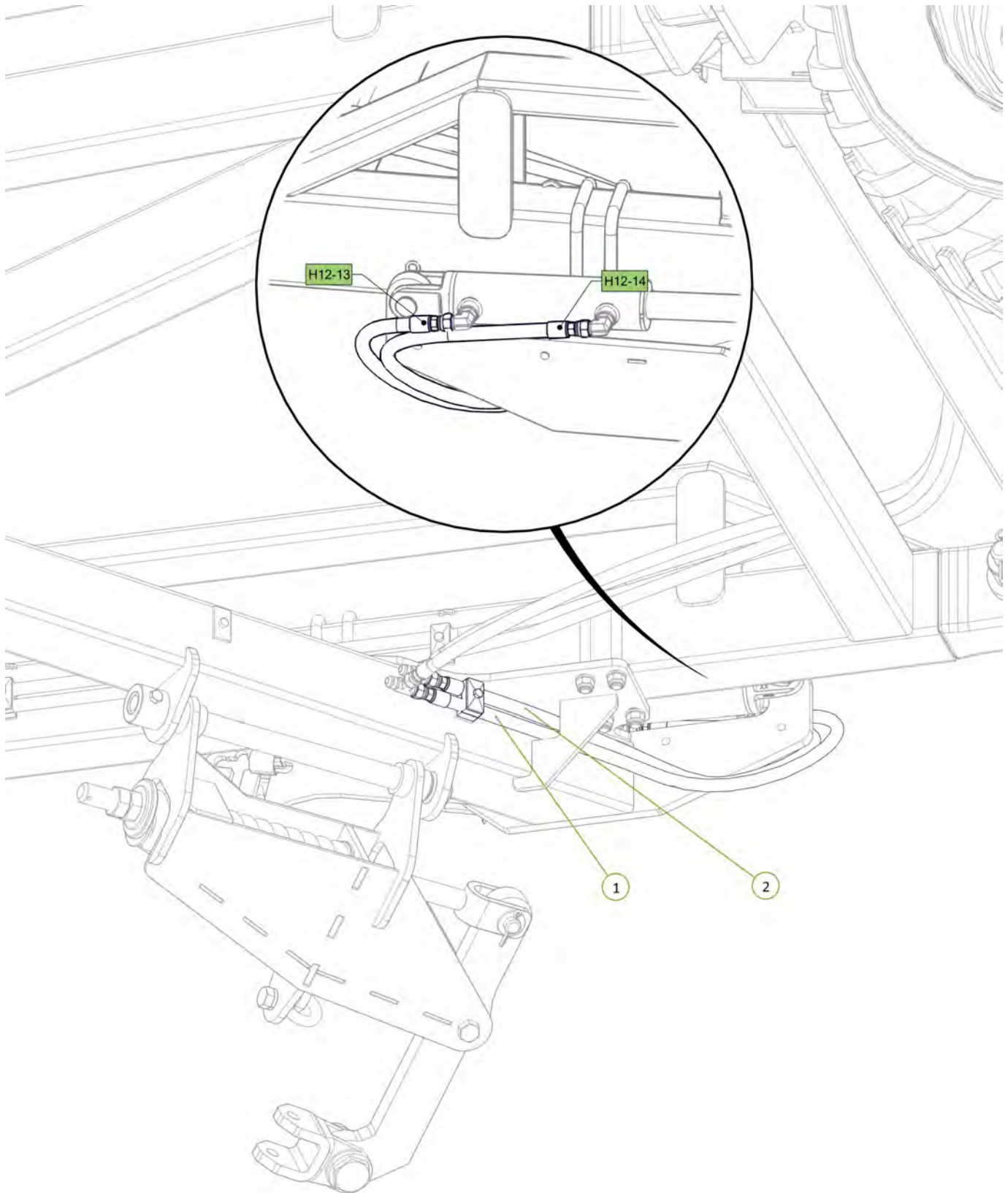


Item No.	Description	Qty	Number
1	3/4" JIC Male 3/4" UN O Ring Male 90° Elbow	2	0323-S91-1212



Item No.	Description	Qty	Number
1	ME2 Port to Rear Module Extend Tee	1	H12-11
2	MR2 Port to Rear Module Retract Tee	1	H12-12
3	3/4" JIC Male Tee	2	0324-S19-121212

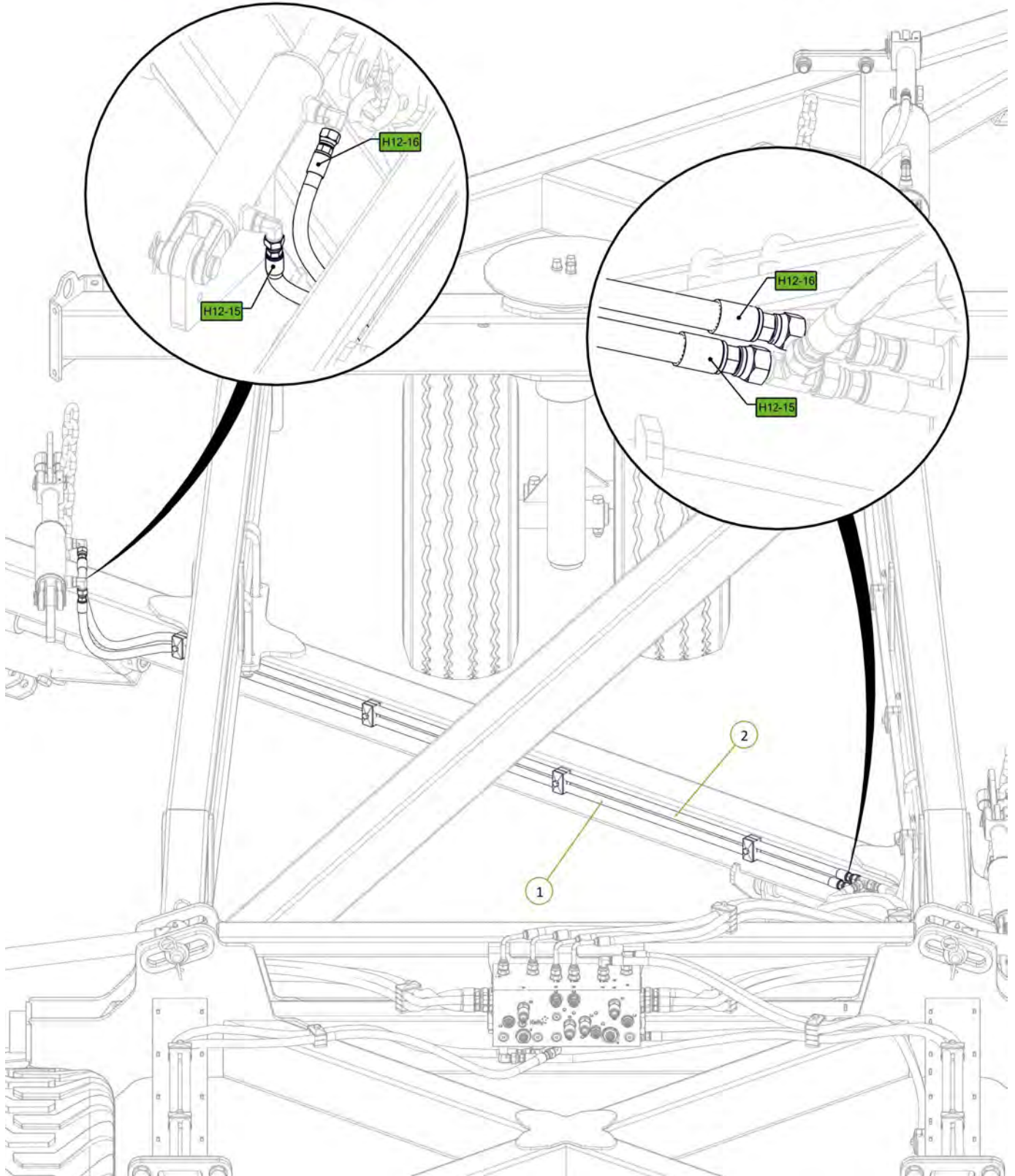




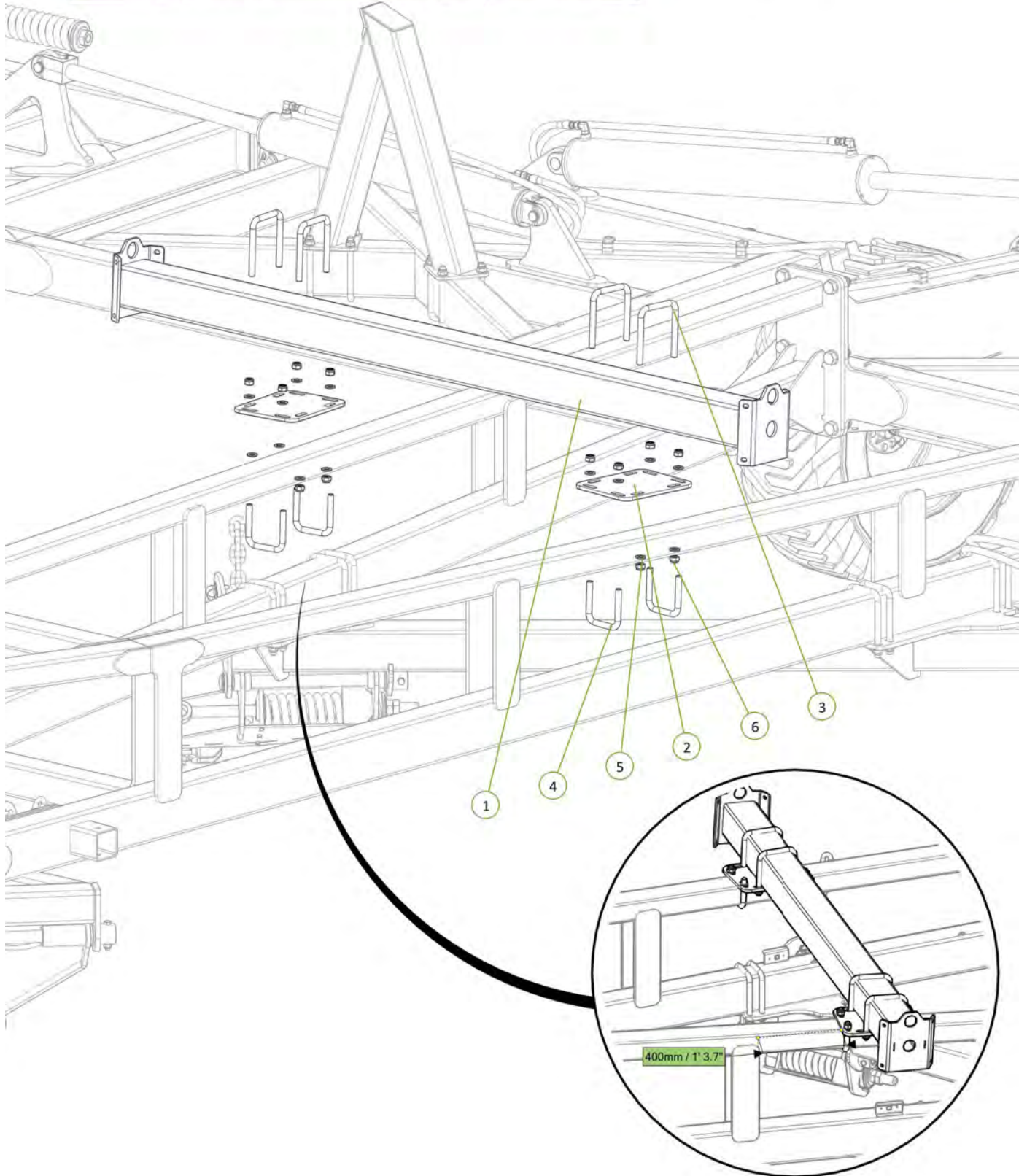
Item No.	Description	Qty	Number
1	Rear Module Extend Tee to LH Rear Module Cyl Extend Port	1	H12-13
2	Rear Module Retract Tee to LH Rear Module Cyl Retract Port	1	H12-14



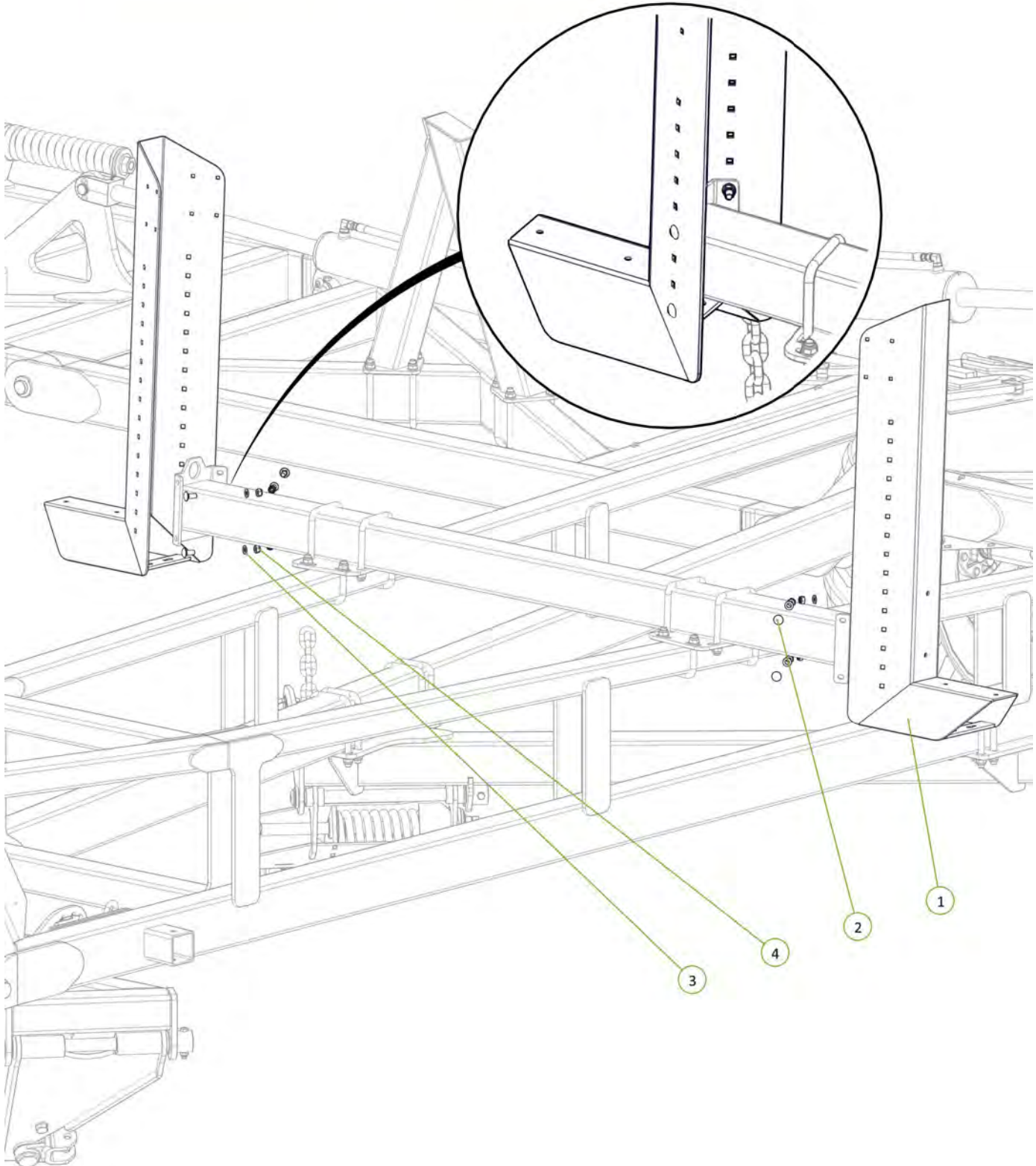
Item No.	Description	Qty	Number
1	Rear Module Extend Tee to RH Rear Module Cyl Extend Port	1	H12-15
2	Rear Module Retract Tee to RH Rear Module Cyl Retract Port	1	H12-16



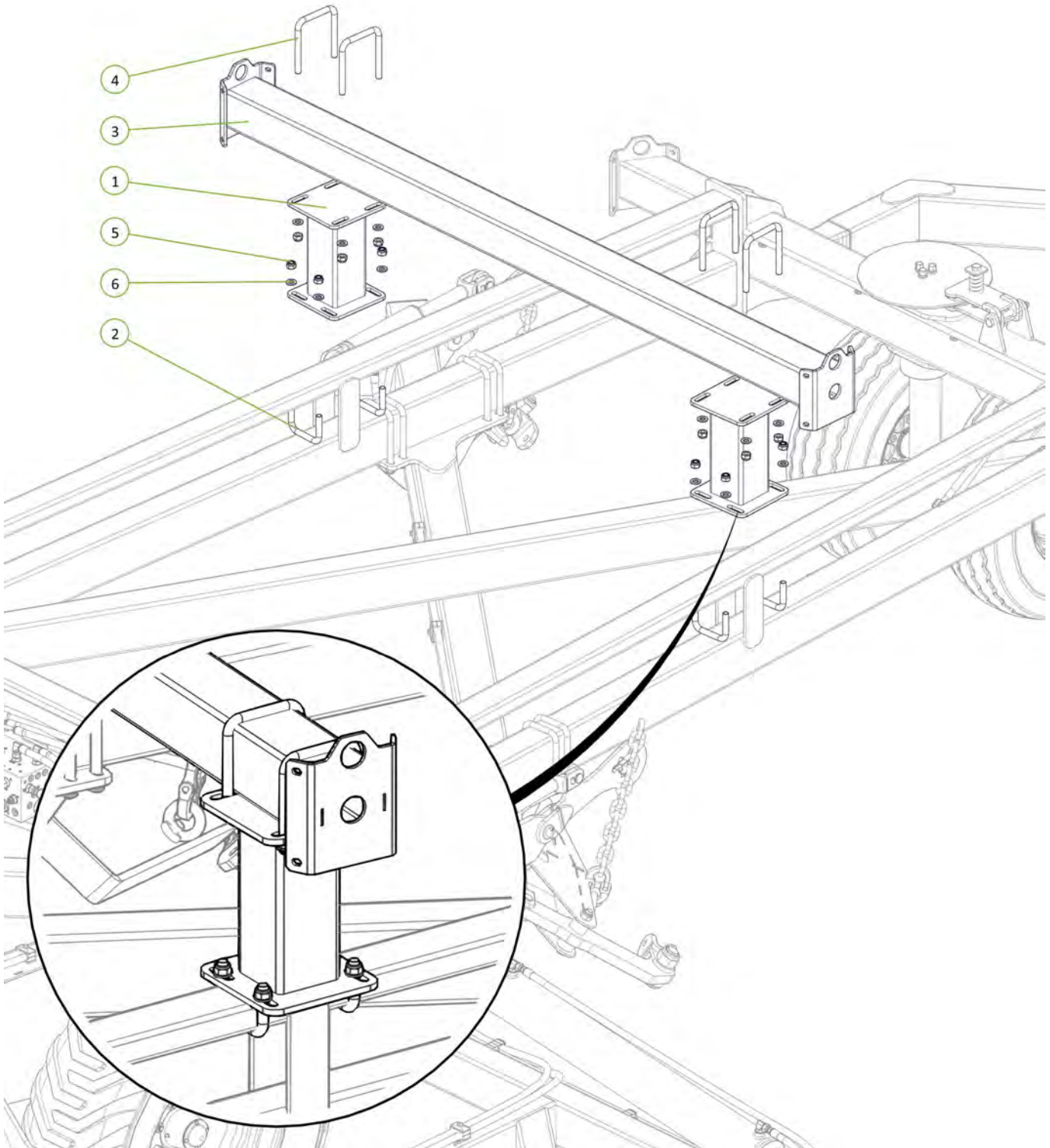
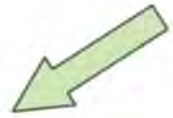
Item No.	Description	Qty	Number
1	Chain Carrier Beam	1	1610-18-12
2	Chain Carrier Mount Plate	2	0800-139.1
3	U-Bolt M16 x 162 Deep x 129 Wide	4	0271-16162129U
4	U-Bolt M16 x 114 Deep x 106 Wide	4	0271-16114106U
5	Washer Flat M16	16	0231-F16
6	Nyloc Nut M16	16	0221-NYL16



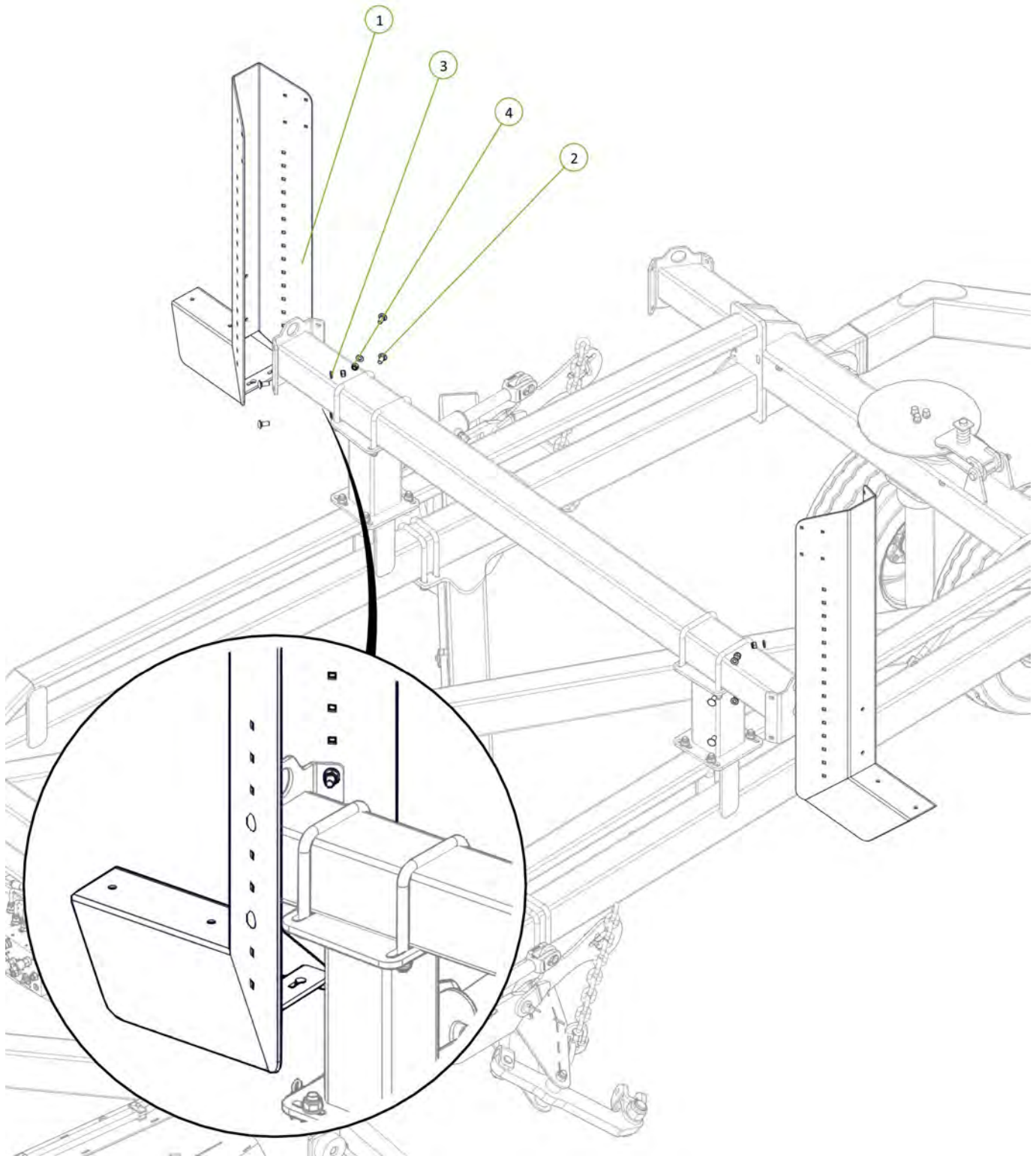
Item No.	Description	Qty	Number
1	Extended Chain Carrier Bolt on End	2	0810-17LE
2	M12 x 30 Coach Head Bolt	8	0215-CH1230
3	Washer Flat M12	8	0231-F12
4	Nyloc Nut M12	8	0221-NYL12



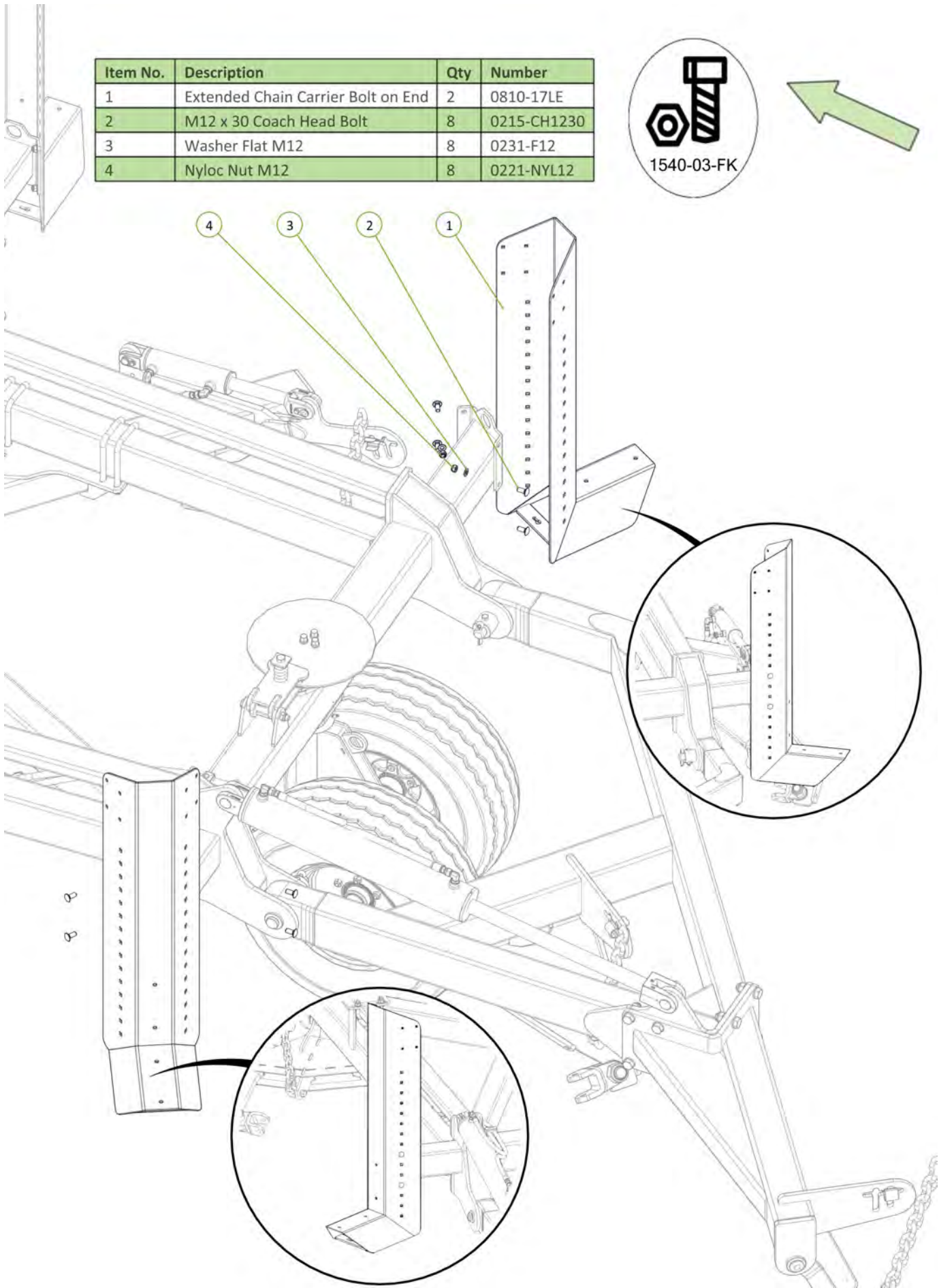
Item No.	Description	Qty	Number
1	300mm Chain Carrier Pedestal	2	1510-43
2	U-Bolt M16 x 106 Wide x 86 Deep	4	0271-1610686U
3	Chain Carrier Beam	1	1610-18-12
4	U-Bolt M16 x 162 Deep x 129 Wide	4	0271-16162129U
5	Nyloc Nut M16	16	0221-NYL16
6	Washer Flat M16	16	0231-F16



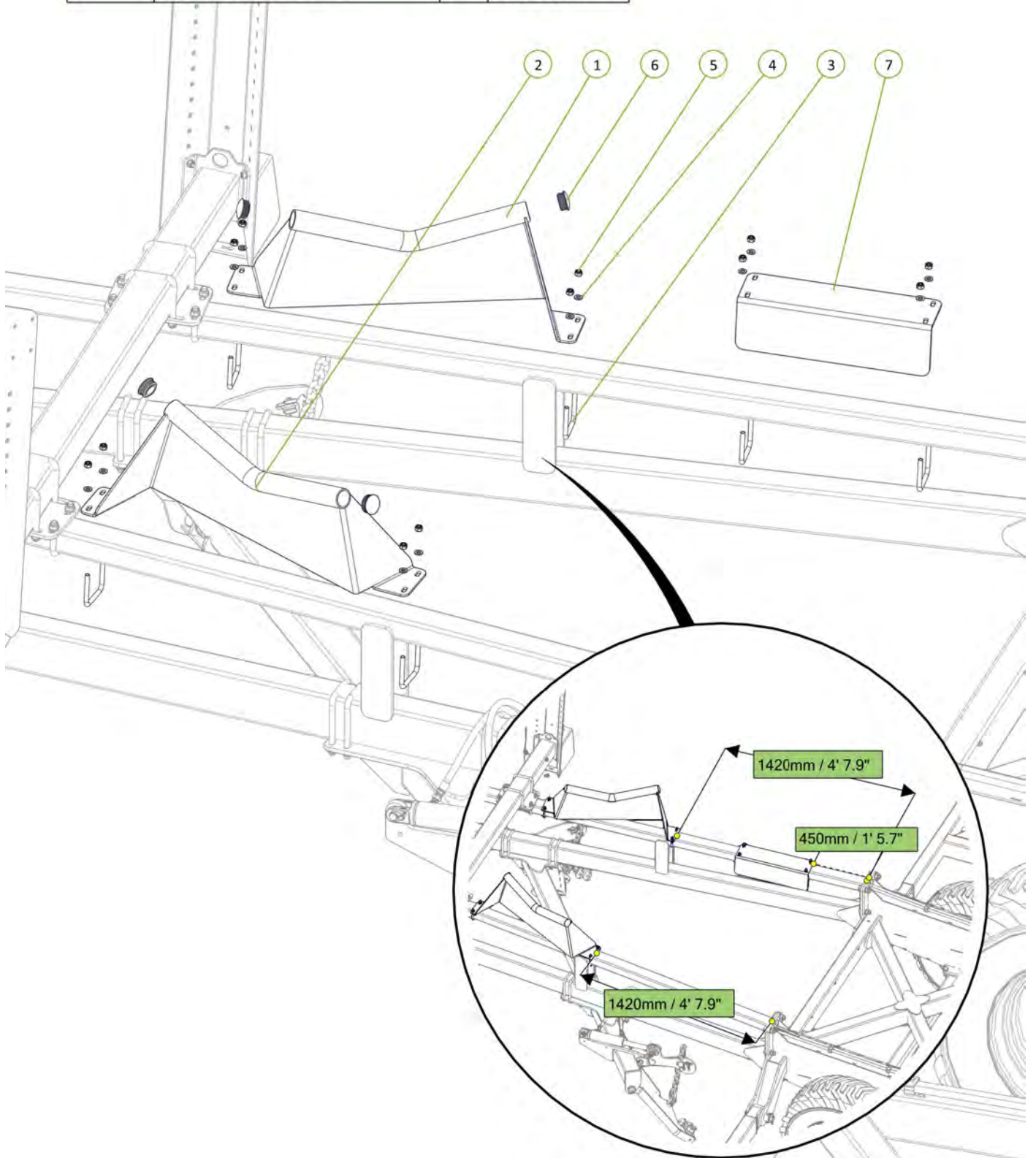
Item No.	Description	Qty	Number
1	Extended Chain Carrier Bolt on End	2	0810-17LE
2	M12 x 30 Coach Head Bolt	8	0215-CH1230
3	Washer Flat M12	8	0231-F12
4	Nyloc Nut M12	8	0221-NYL12



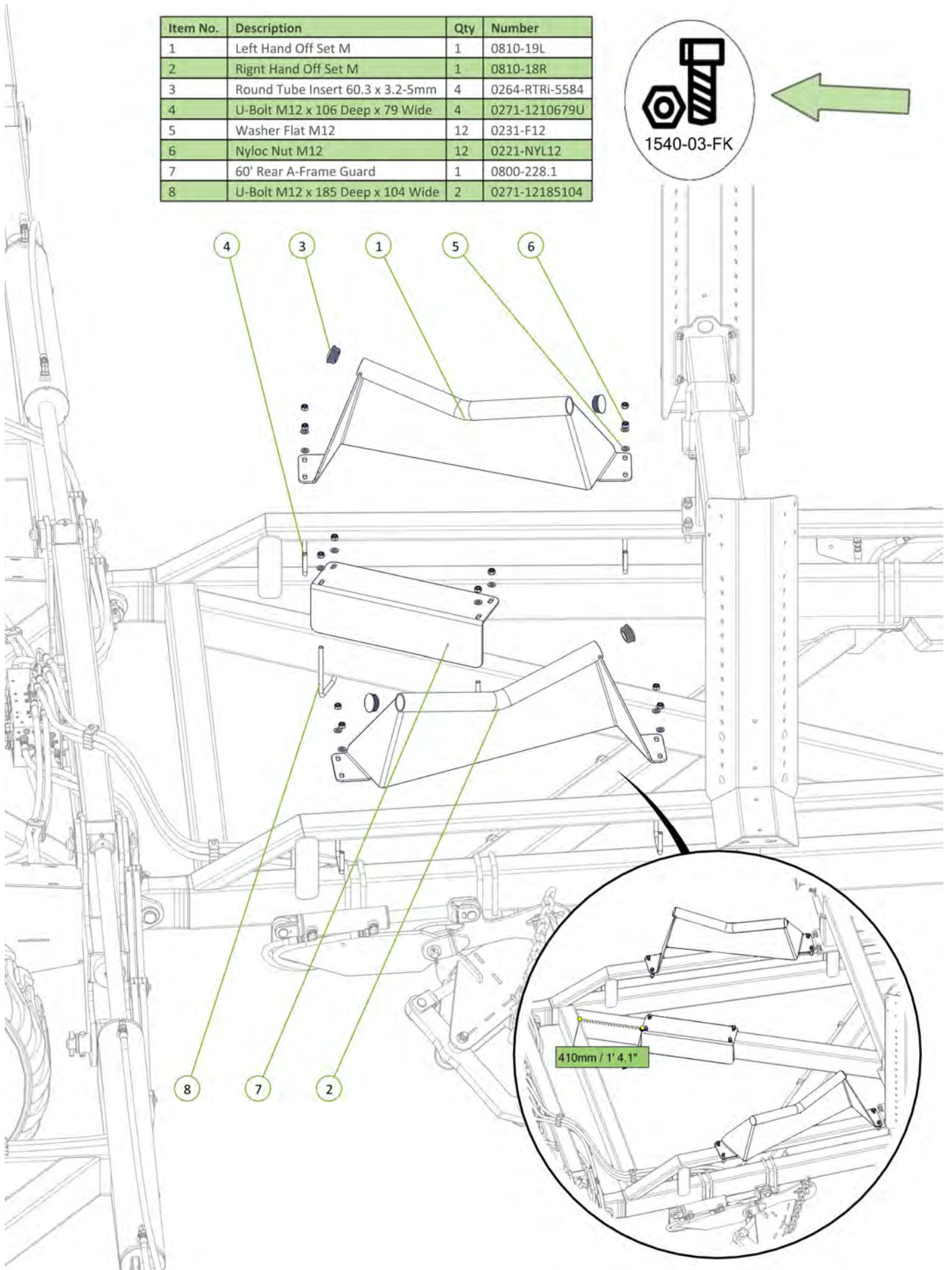
Item No.	Description	Qty	Number
1	Extended Chain Carrier Bolt on End	2	0810-17LE
2	M12 x 30 Coach Head Bolt	8	0215-CH1230
3	Washer Flat M12	8	0231-F12
4	Nyloc Nut M12	8	0221-NYL12



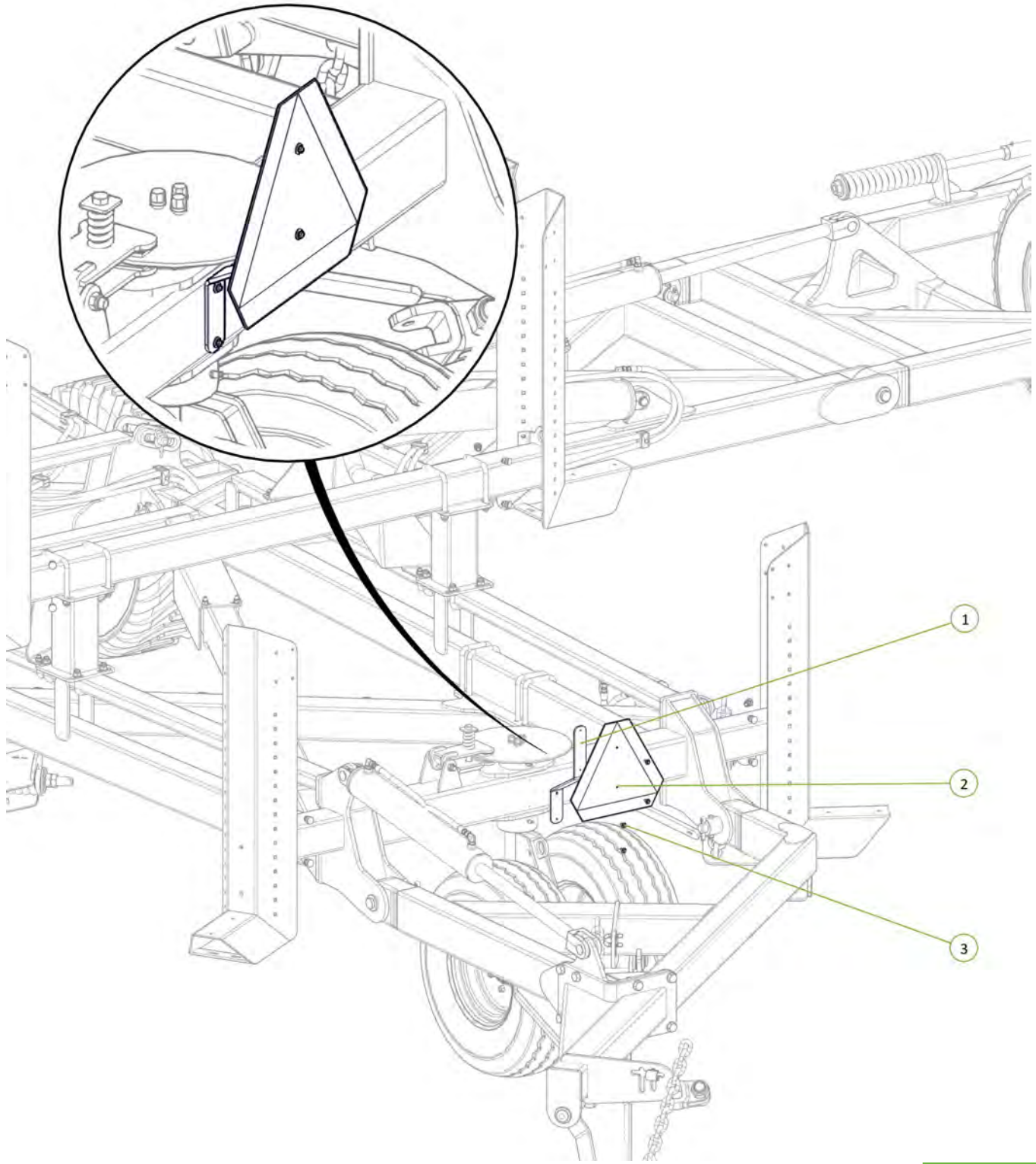
Item No.	Description	Qty	Number
1	Right Hand Off Set M	1	0810-18R
2	Left Hand Off Set M	1	0810-19L
3	U-Bolt M12 x 107 Deep x 106 Wide	6	0271-1210
4	Washer Flat M12	12	0231-F12
5	Nyloc Nut M12	12	0221-NYL12
6	Round Tube Insert 60.3 x 3.2-5mm	4	0264-RTRi-5584
7	60' Rear A-Frame Guard	1	0800-228.1

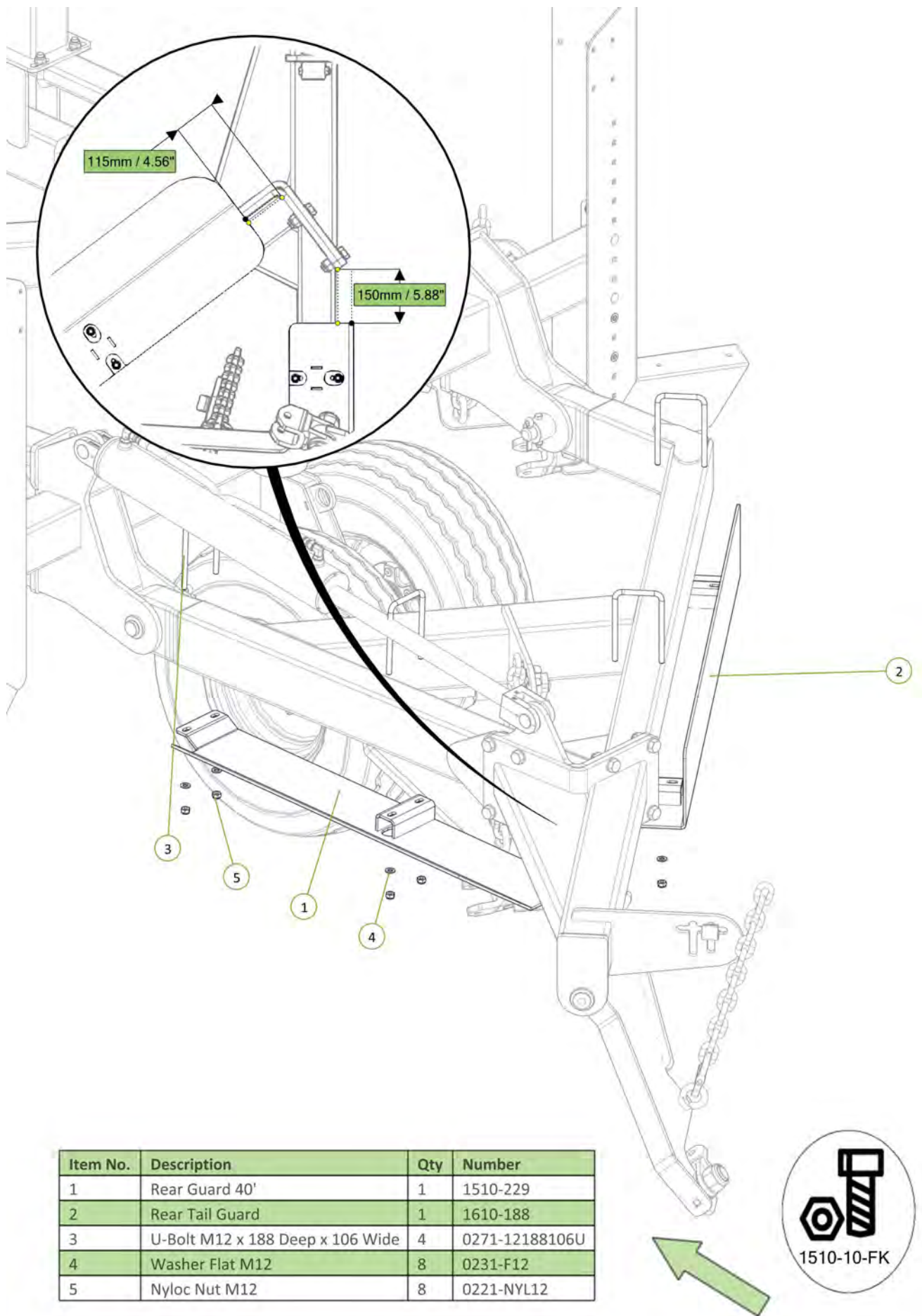


Item No.	Description	Qty	Number
1	Left Hand Off Set M	1	0810-19L
2	Right Hand Off Set M	1	0810-18R
3	Round Tube Insert 60.3 x 3.2-5mm	4	0264-RTRi-5584
4	U-Bolt M12 x 106 Deep x 79 Wide	4	0271-1210679U
5	Washer Flat M12	12	0231-F12
6	Nyloc Nut M12	12	0221-NYL12
7	60' Rear A-Frame Guard	1	0800-228.1
8	U-Bolt M12 x 185 Deep x 104 Wide	2	0271-12185104

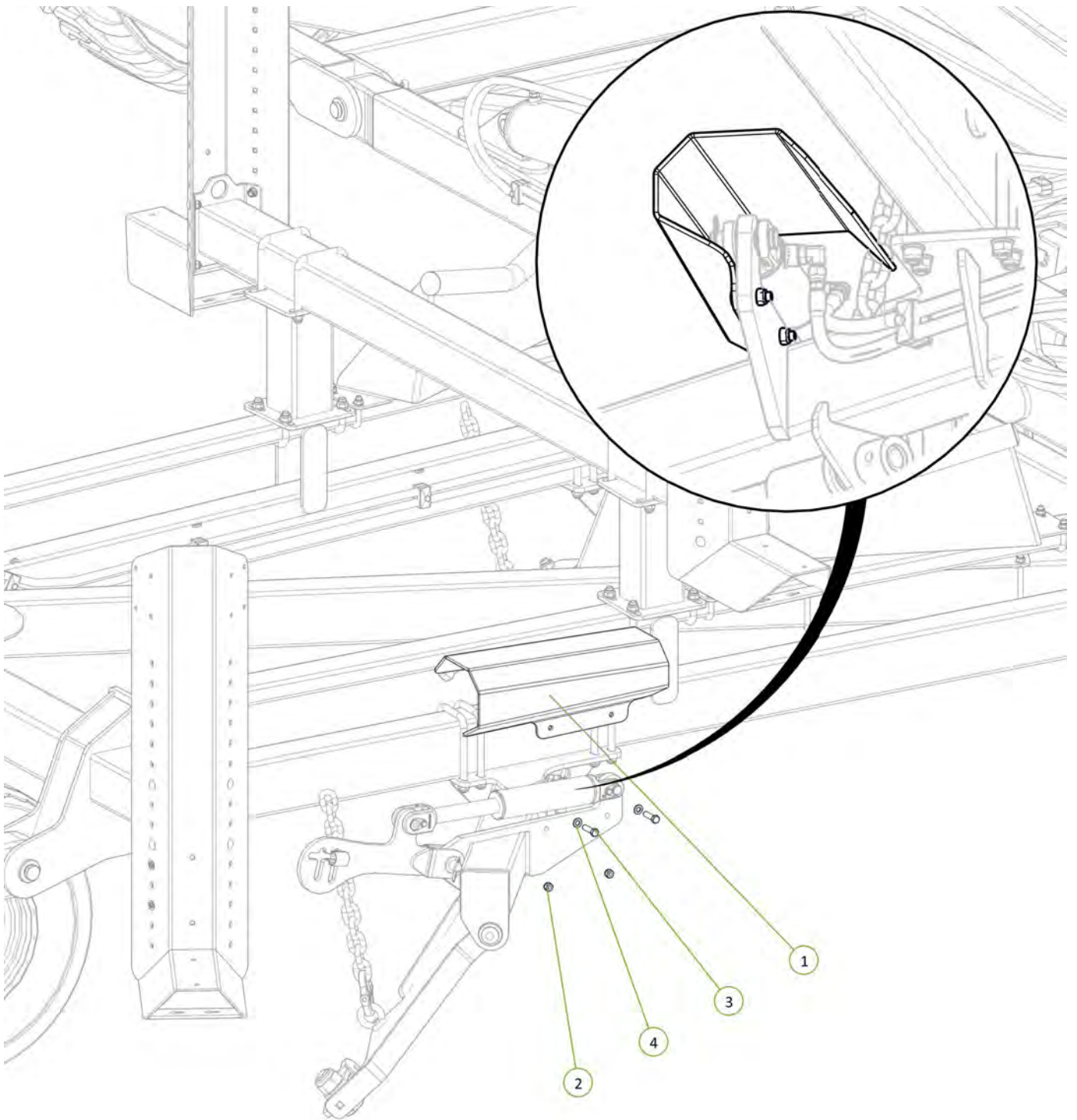


Item No.	Description	Qty	Number
1	SMV Sign Bracket	1	0800-195.1
2	Slow Moving Vehical Sign	1	0801-FBSMVTUF
3	M6 x 20 Trilobe self tapping Scew	4	0211-M620MZPHTF





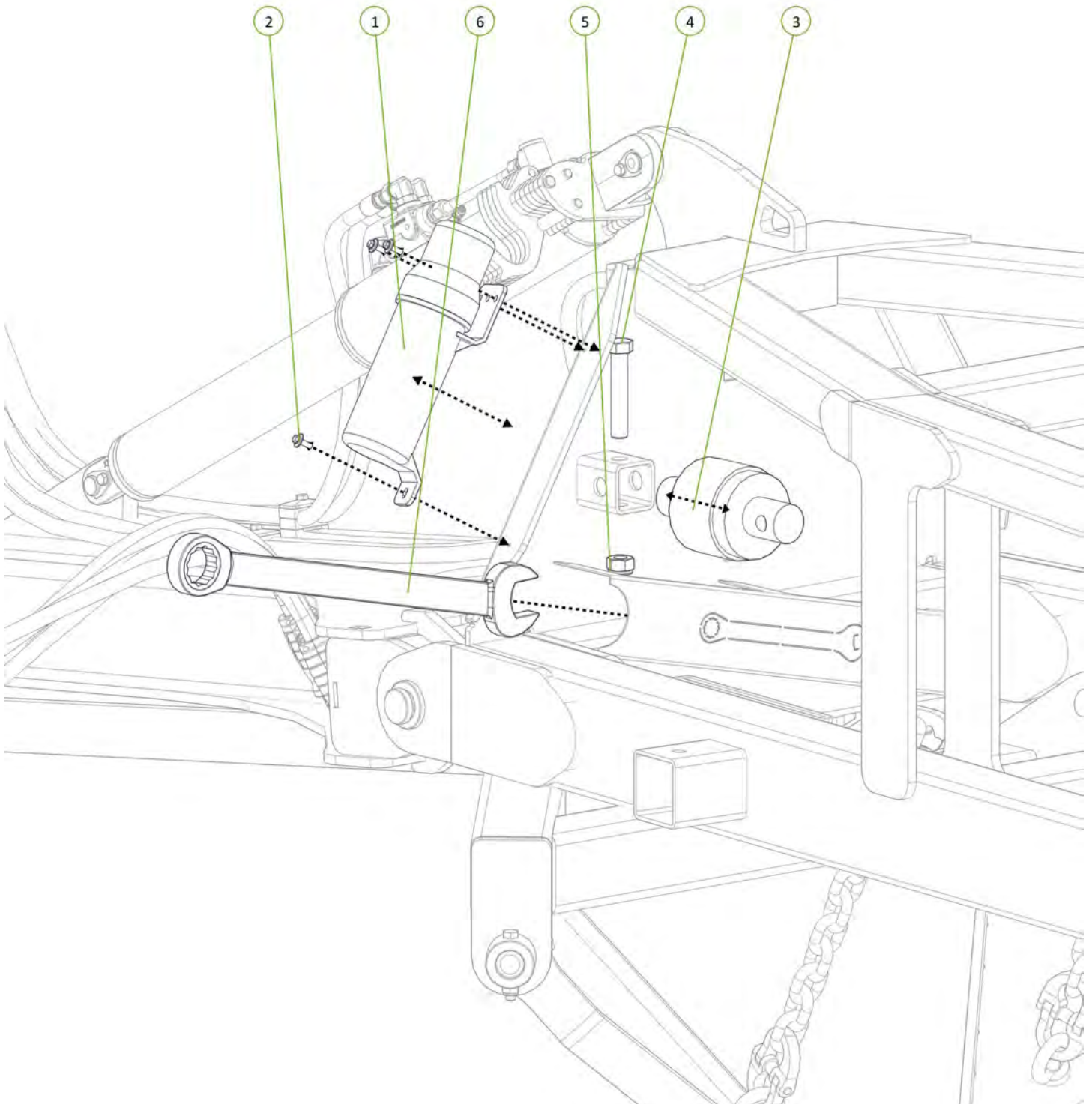
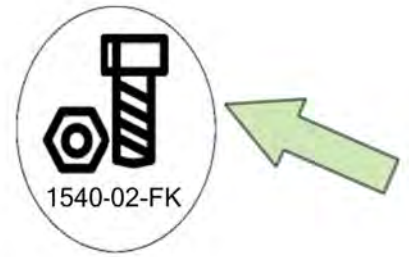
Item No.	Description	Qty	Number
1	Rear Guard 40'	1	1510-229
2	Rear Tail Guard	1	1610-188
3	U-Bolt M12 x 188 Deep x 106 Wide	4	0271-12188106U
4	Washer Flat M12	8	0231-F12
5	Nyloc Nut M12	8	0221-NYL12



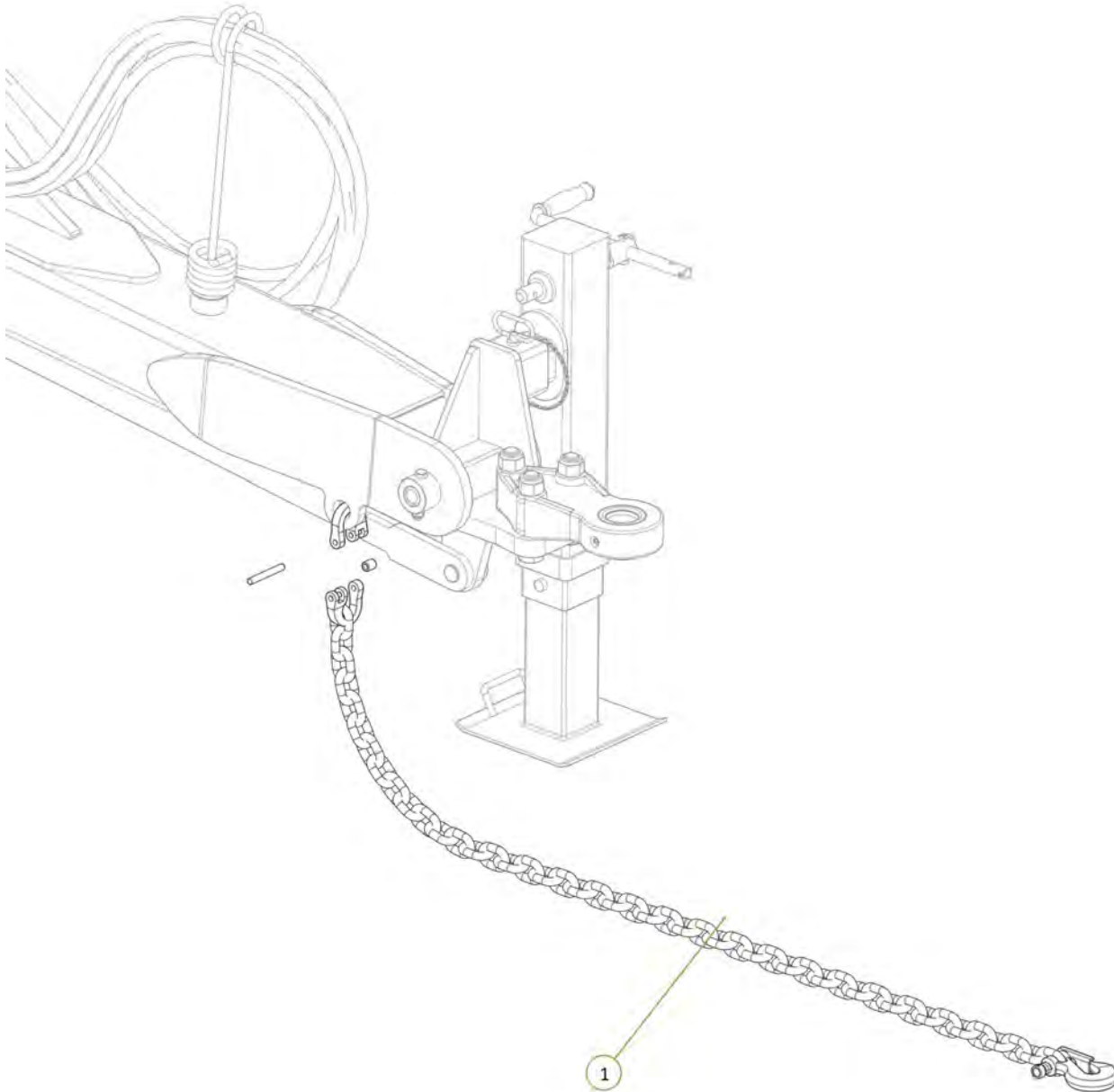
Item No.	Description	Qty	Number
1	Module Cylinder Guard	1	0800-167.3
2	Nyloc Nut M12	2	0221-NYL12
3	M12 x 45 grade 8.8 ZP Bolt	2	0211-1245
4	Washer Flat M12	4	0231-F



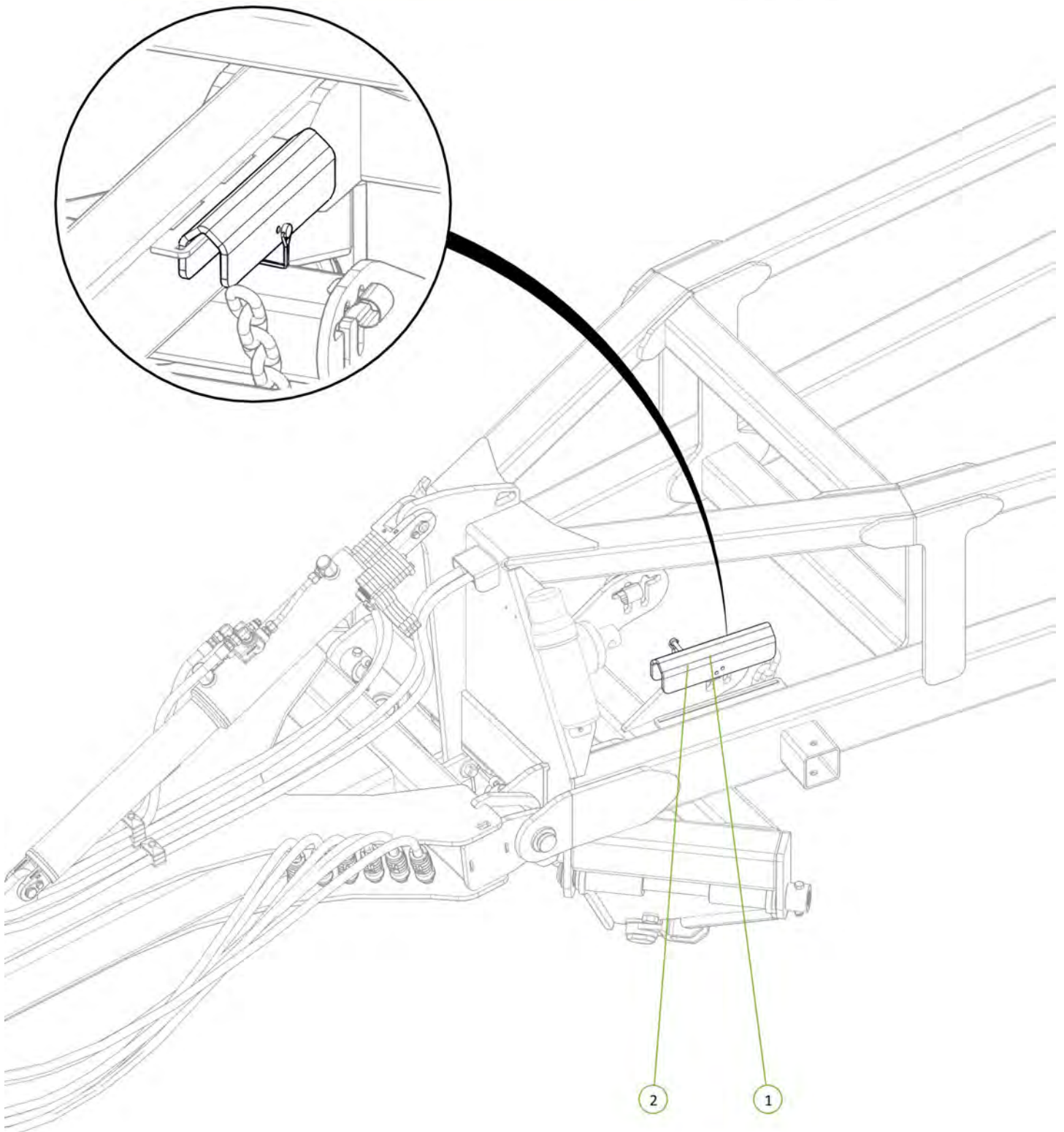
Item No.	Description	Qty	Number
1	Operator Manual Cannister	1	0801-OMC-1
2	M6 x 20 Trilobe self tapping ScREW	3	0211-M620MZPHTF
3	20mm Bolt Swivel Unit	1	0802-PCHB55
4	M20 x 110 grade 10.9 ZP Short Thread Bolt	1	0211-20110 ST
5	Nyloc Nut M20	1	0221-NYL20
6	Ratcheting Gear Wrench 1 3/4"	1	0802-GW1 3-4

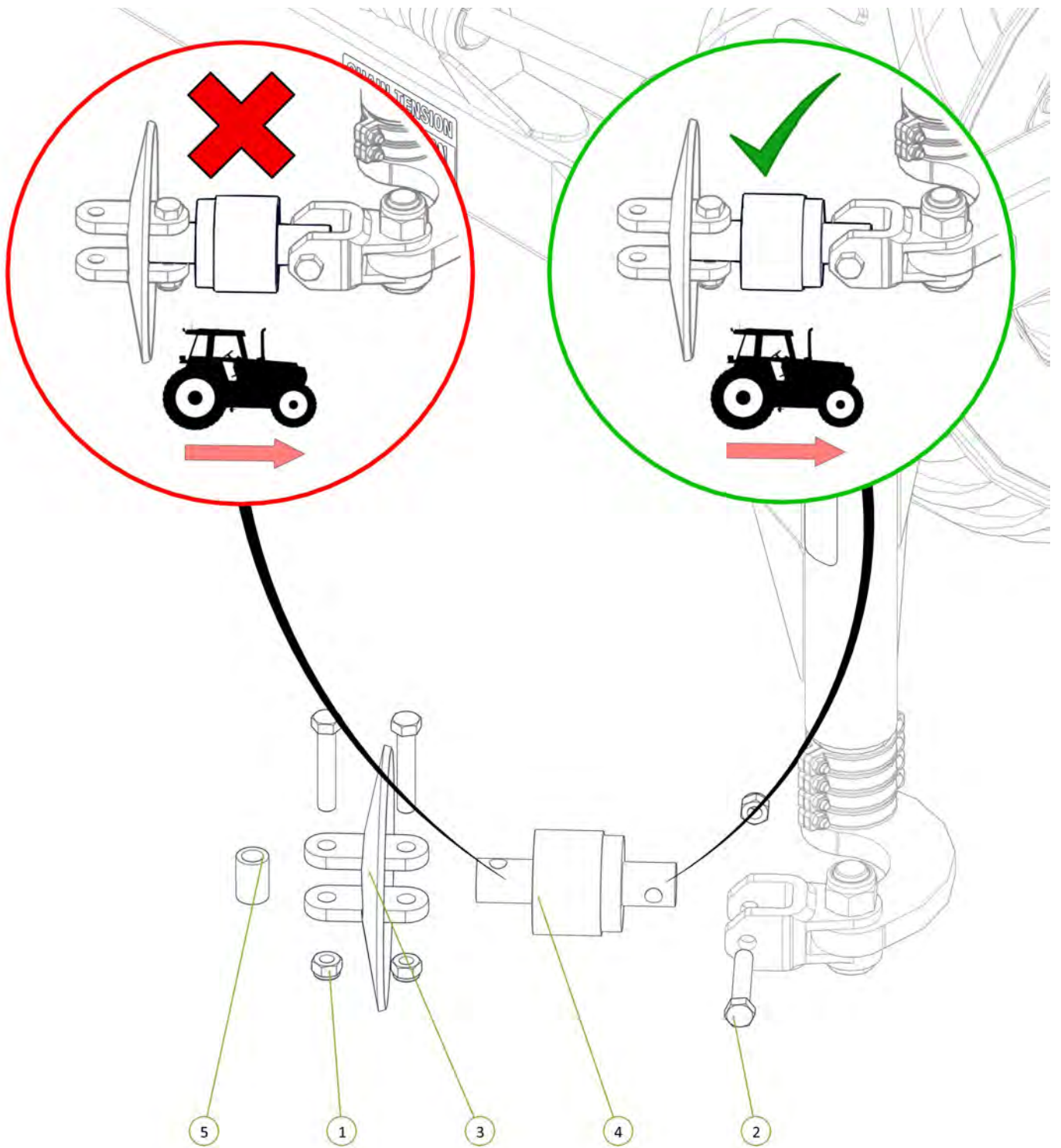


Item No.	Description	Qty	Number
1	Safety Chain Assembly	1	0810-16



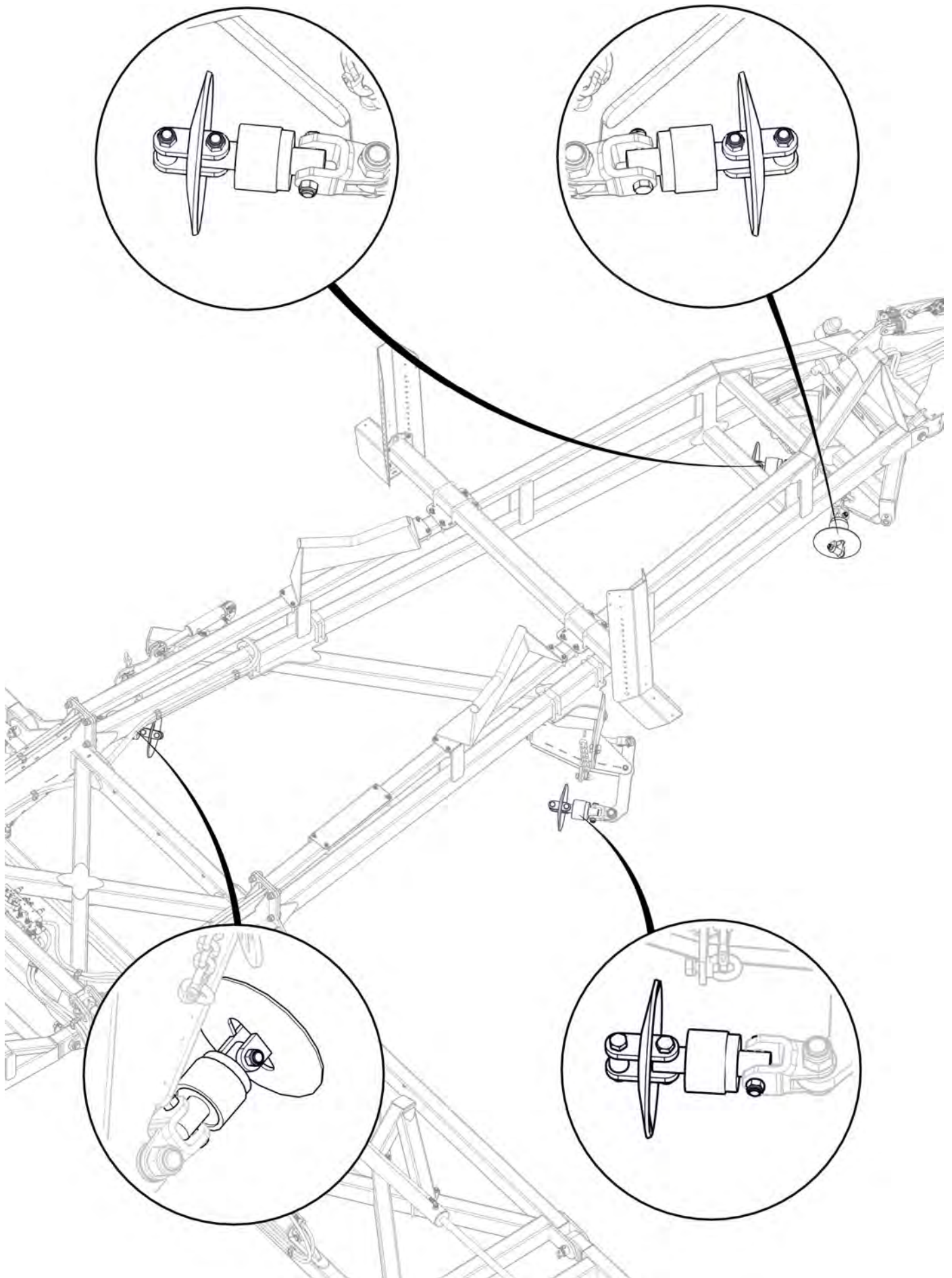
Item No.	Description	Qty	Number
1	Cylinder Safety Stop	1	0800-212.1
2	Square Loop Pin M8 x 63	1	0511-PINLOOPSQ863

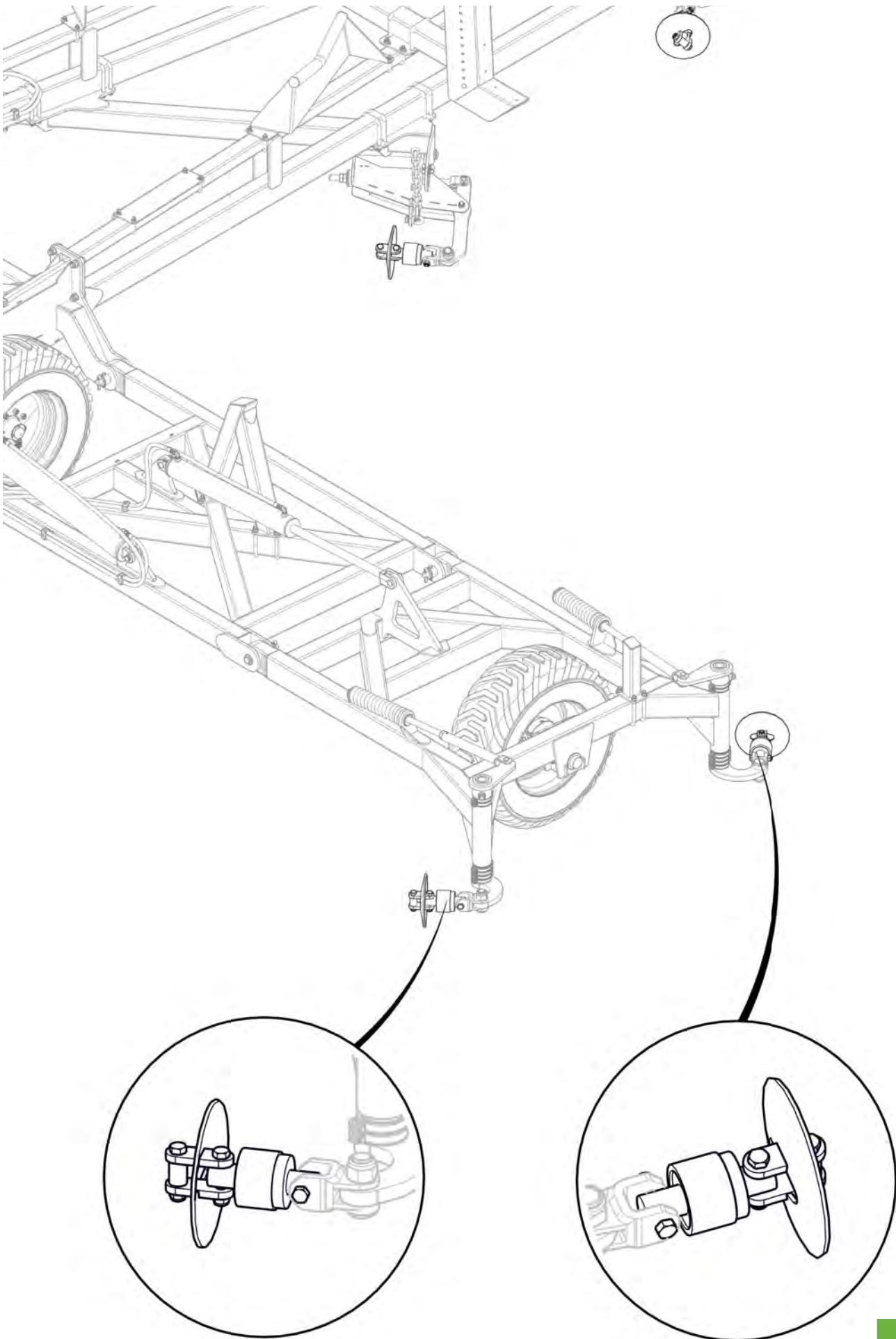


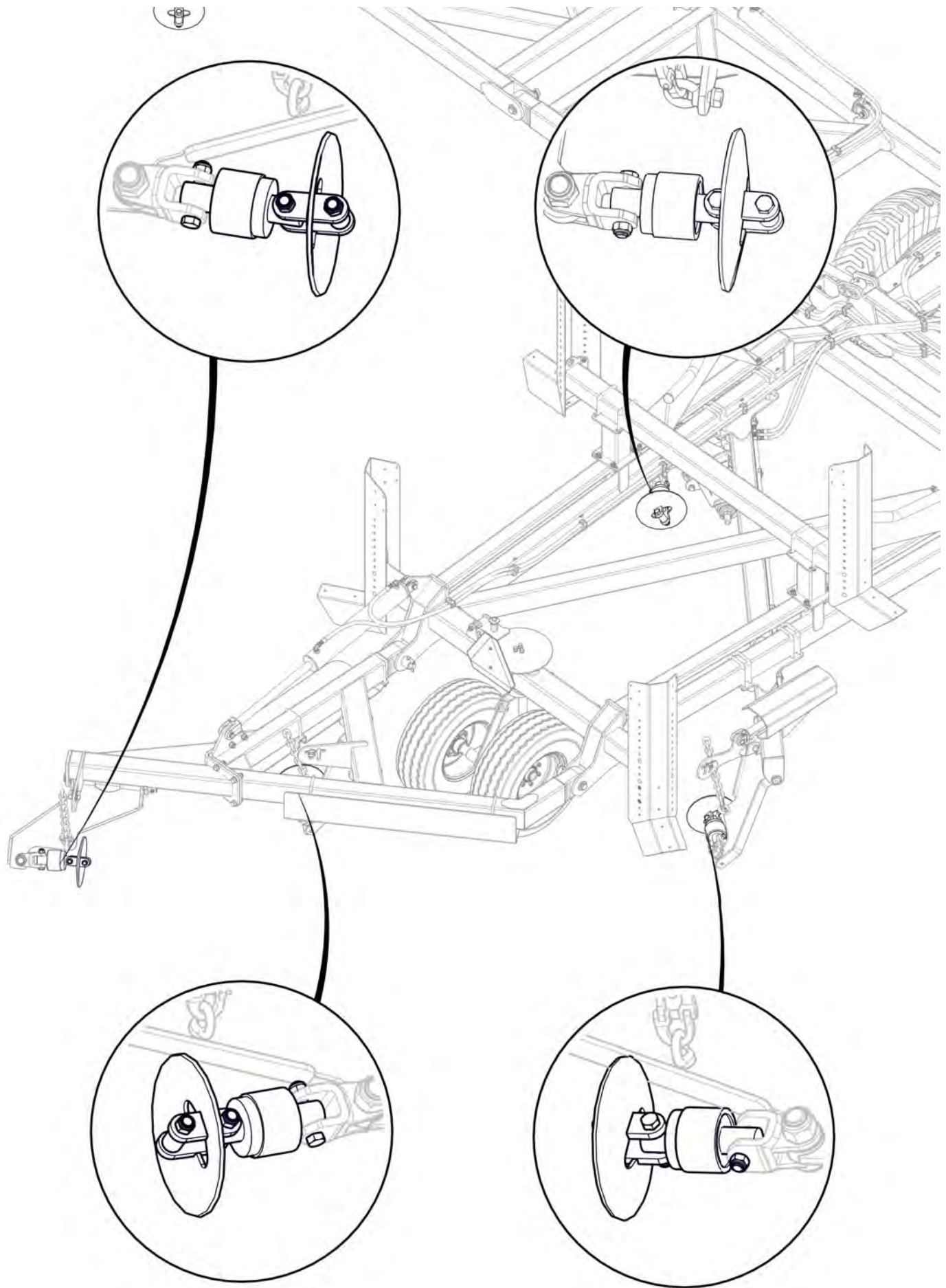


Item No.	Description	Qty	Number
1	Nyloc Nut M20	3	0221-NYL20
2	M20 x 110 grade 10.9 ZP Short Thread Bolt	3	0211-20110 ST
3	Disc Chain Tie Plate Link 20mm	1	0802-DCTP-20
4	20mm Bolt Swivel Unit	1	0802-PCHB55
5	Tie Plate Bush	1	0801-PCDCS55





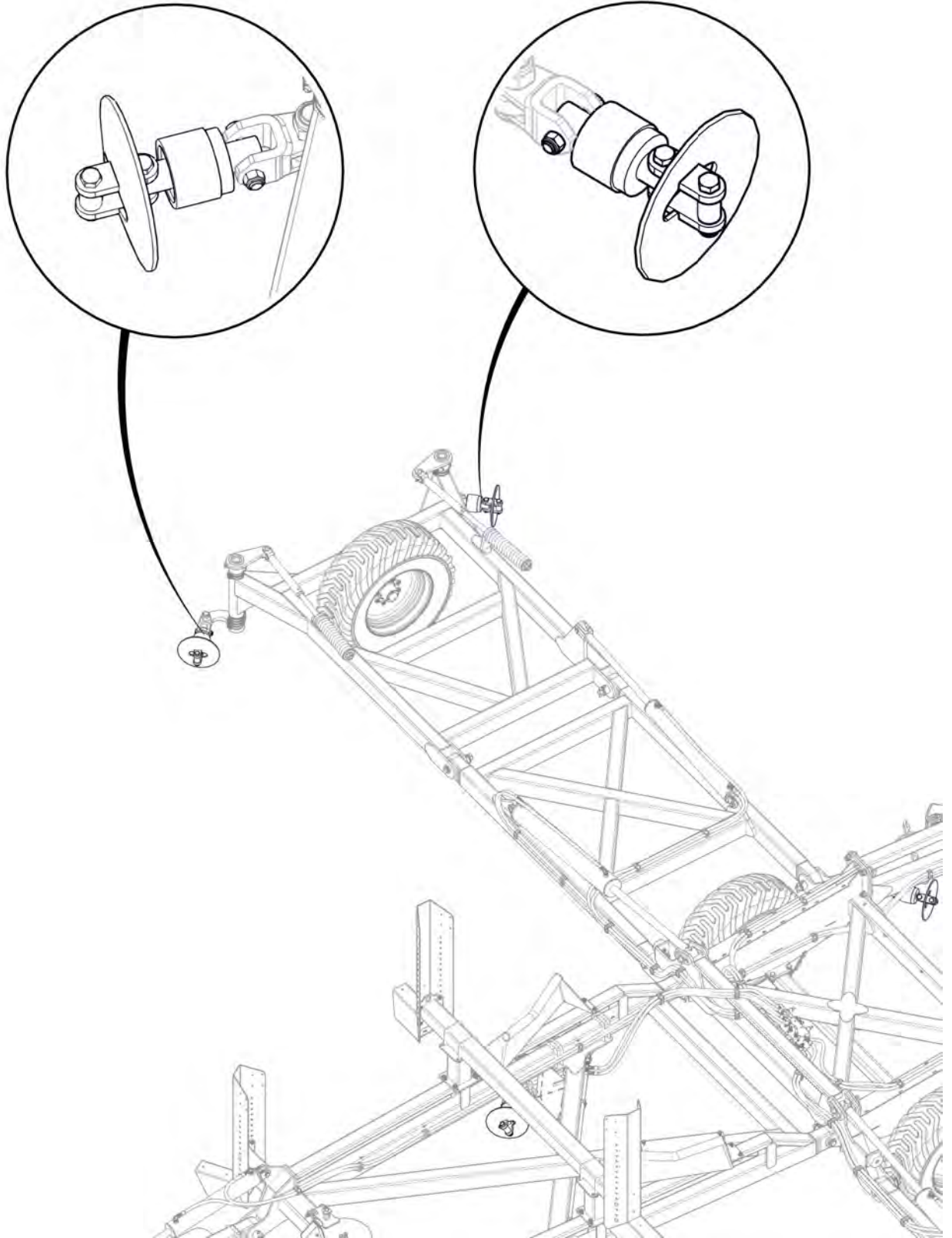


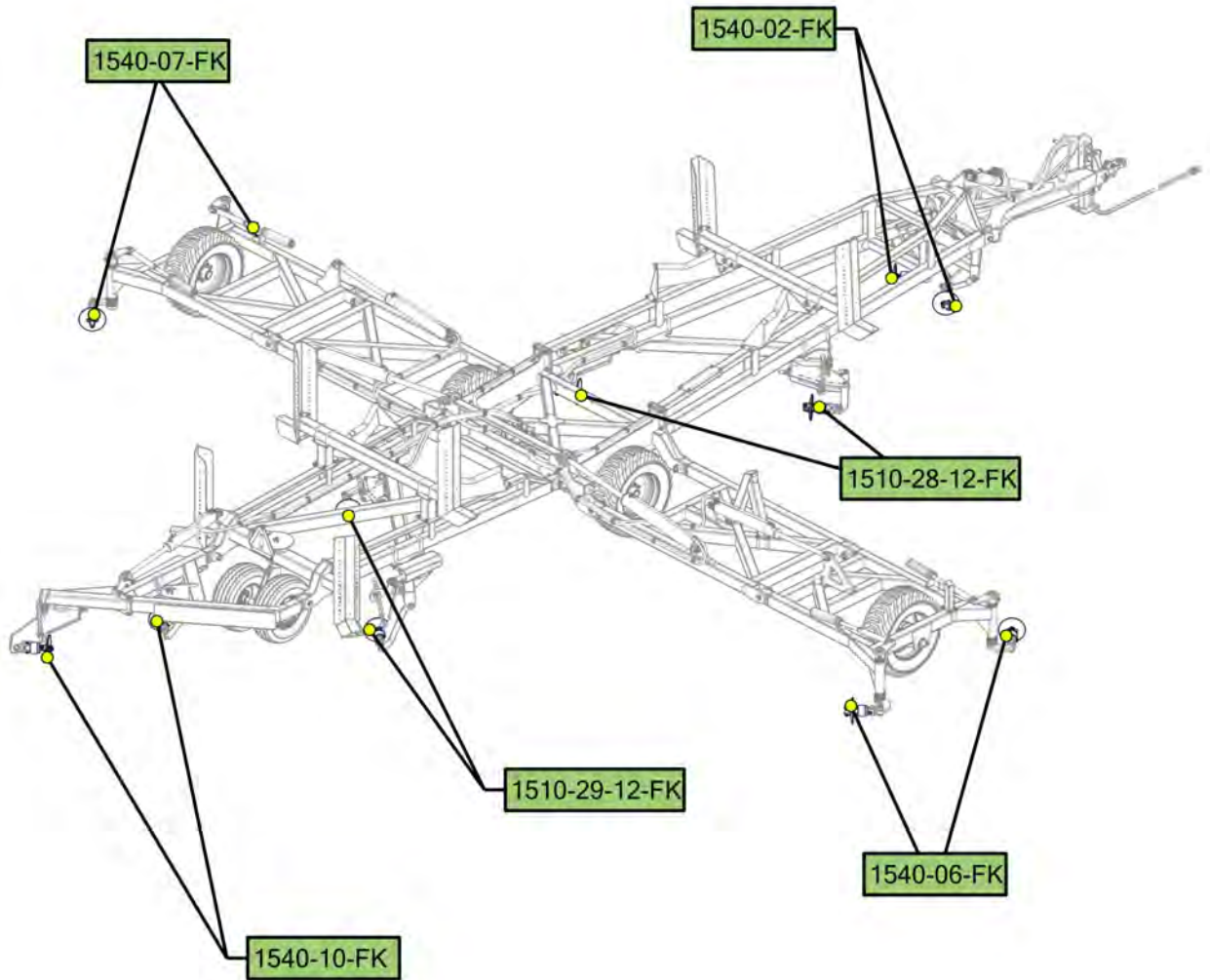


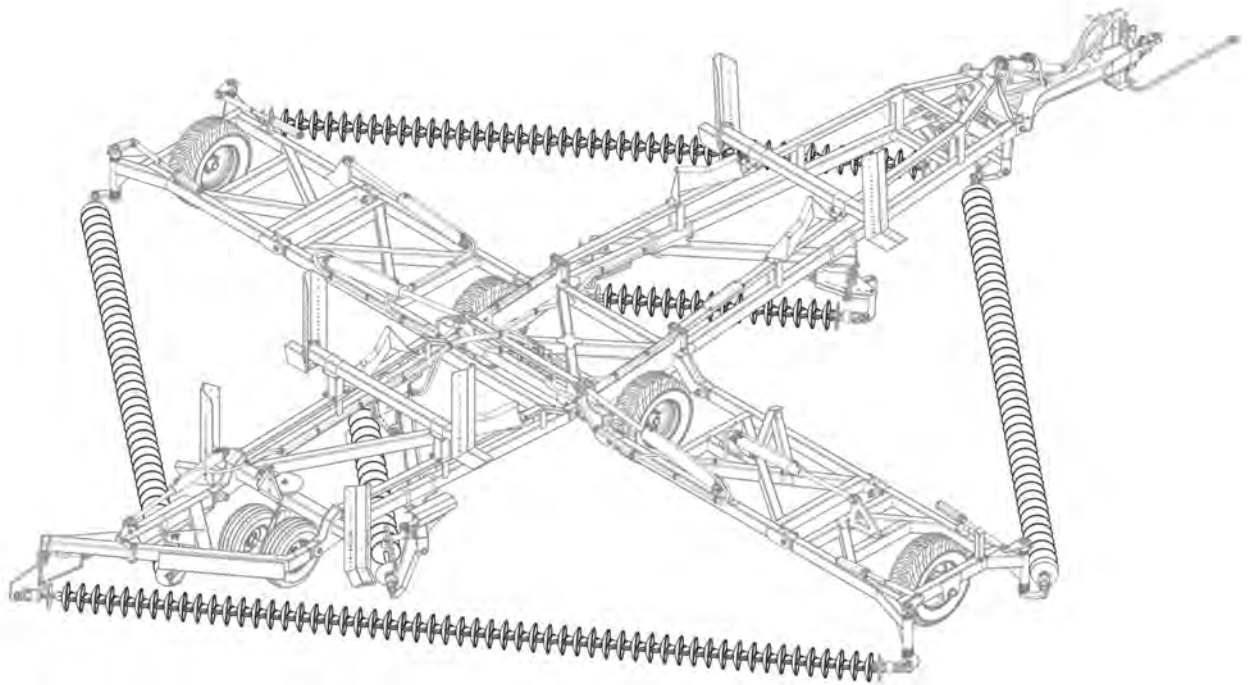
All bearings correctly orientated with seal facing the rear of the machine

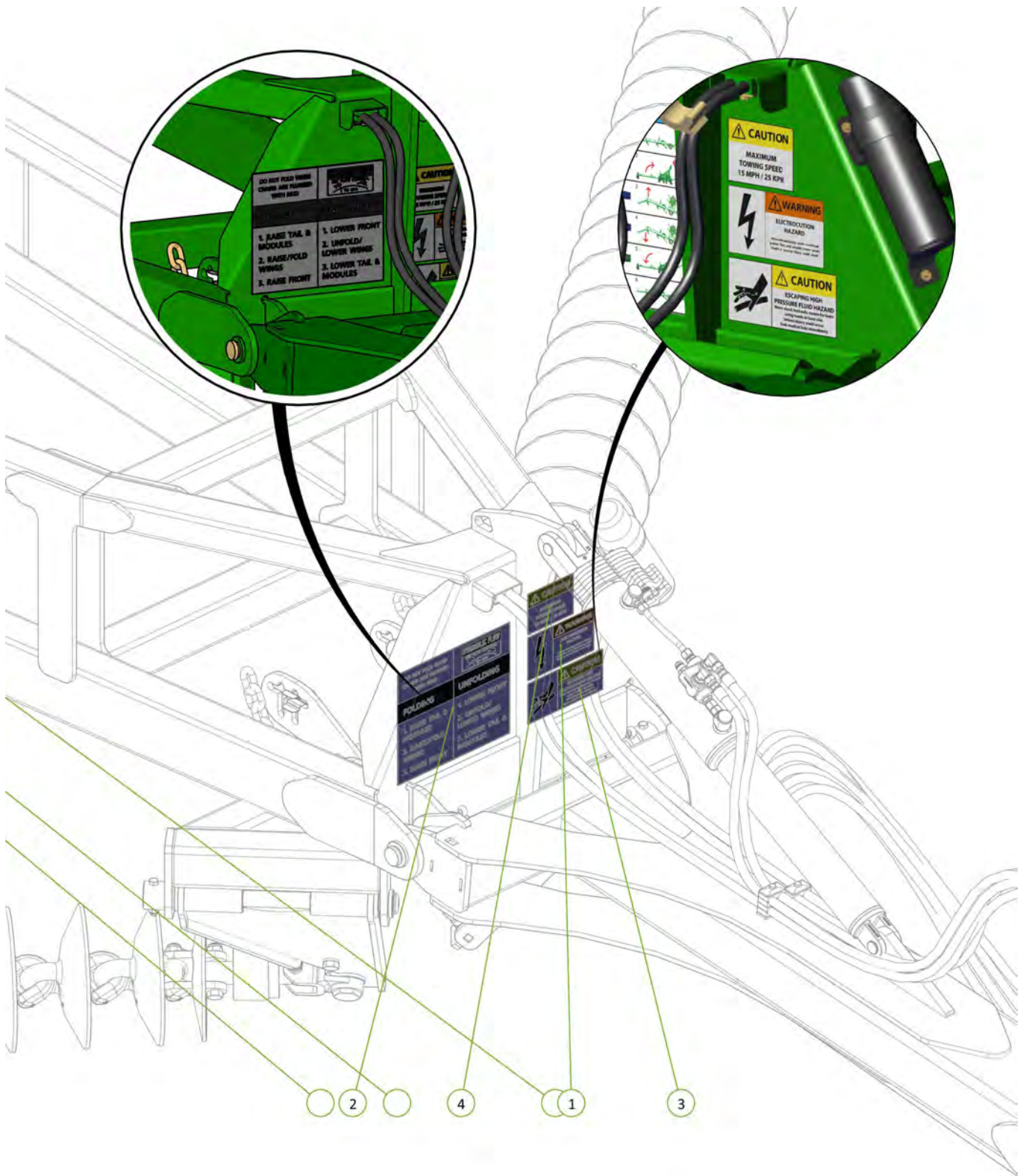


Signed _____ Date _/ _/ _
Unit Serial Number _____





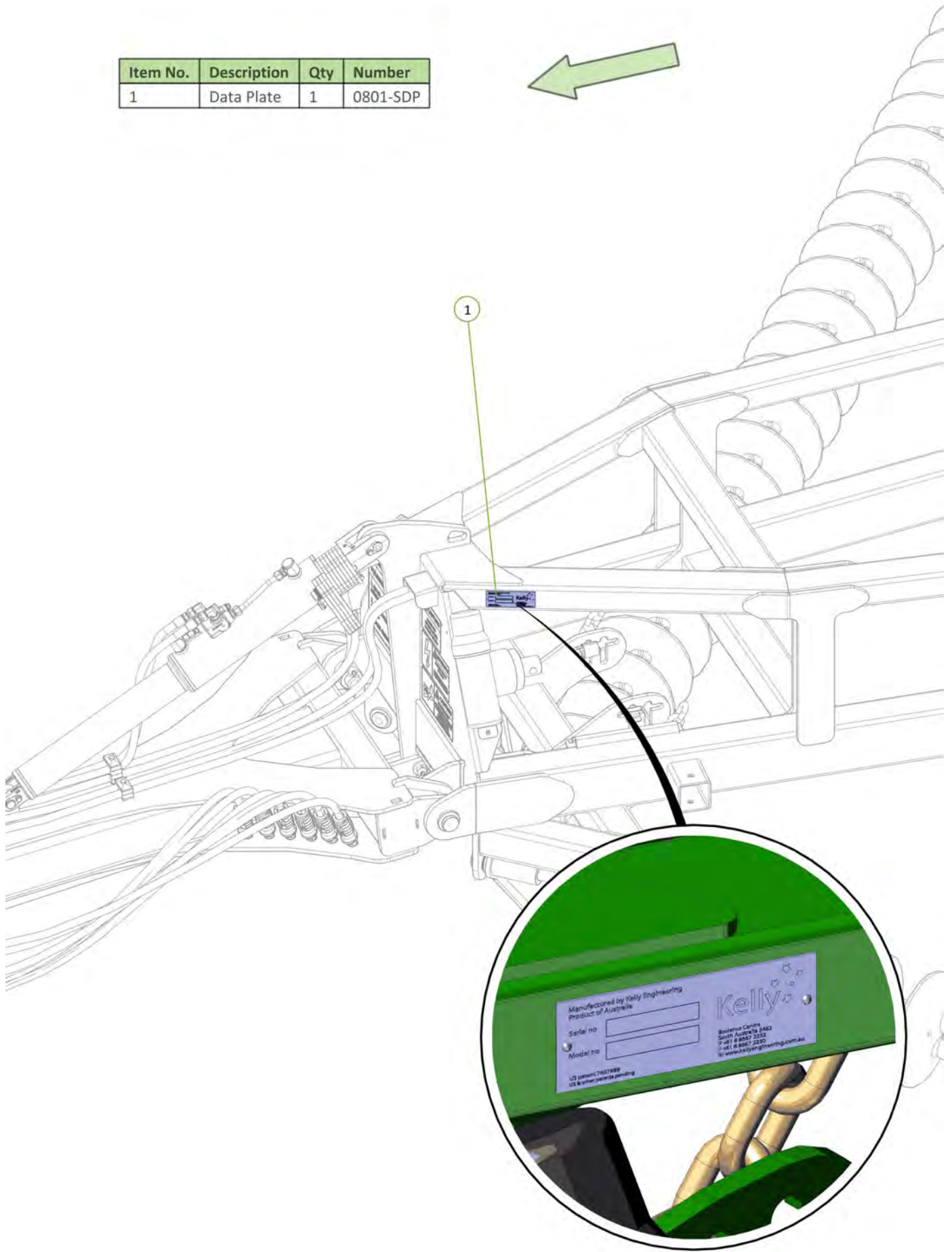




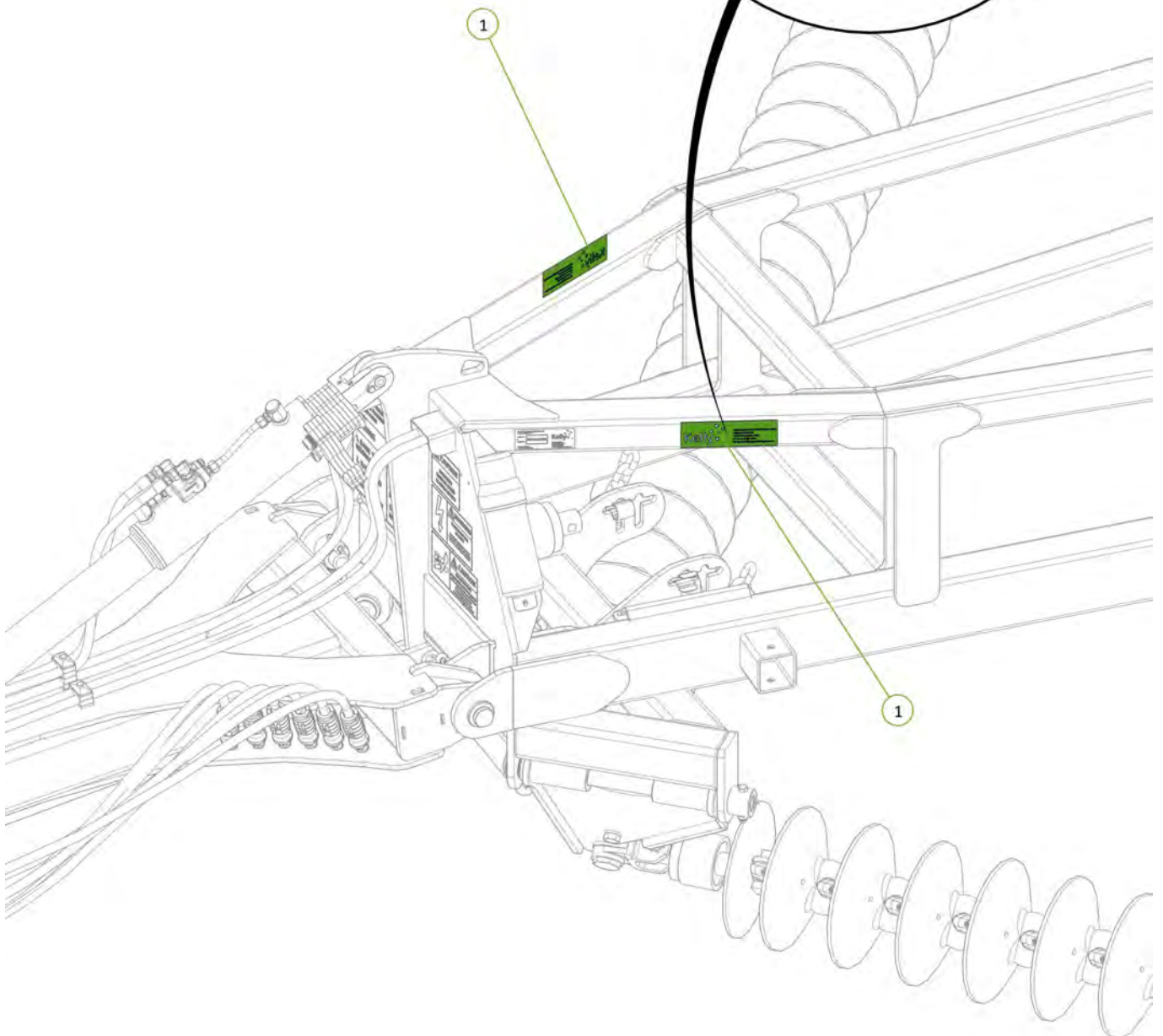
Item No.	Description	Qty	Number
1	Electrocution Hazard Decal	1	0801-S6
2	Fold-Unfold Decal 340 x 280mm	1	0801-S18
3	Hydraulic Pressure Caution Decal	1	0801-S4
4	Towing Speed Decal	1	0801-S5

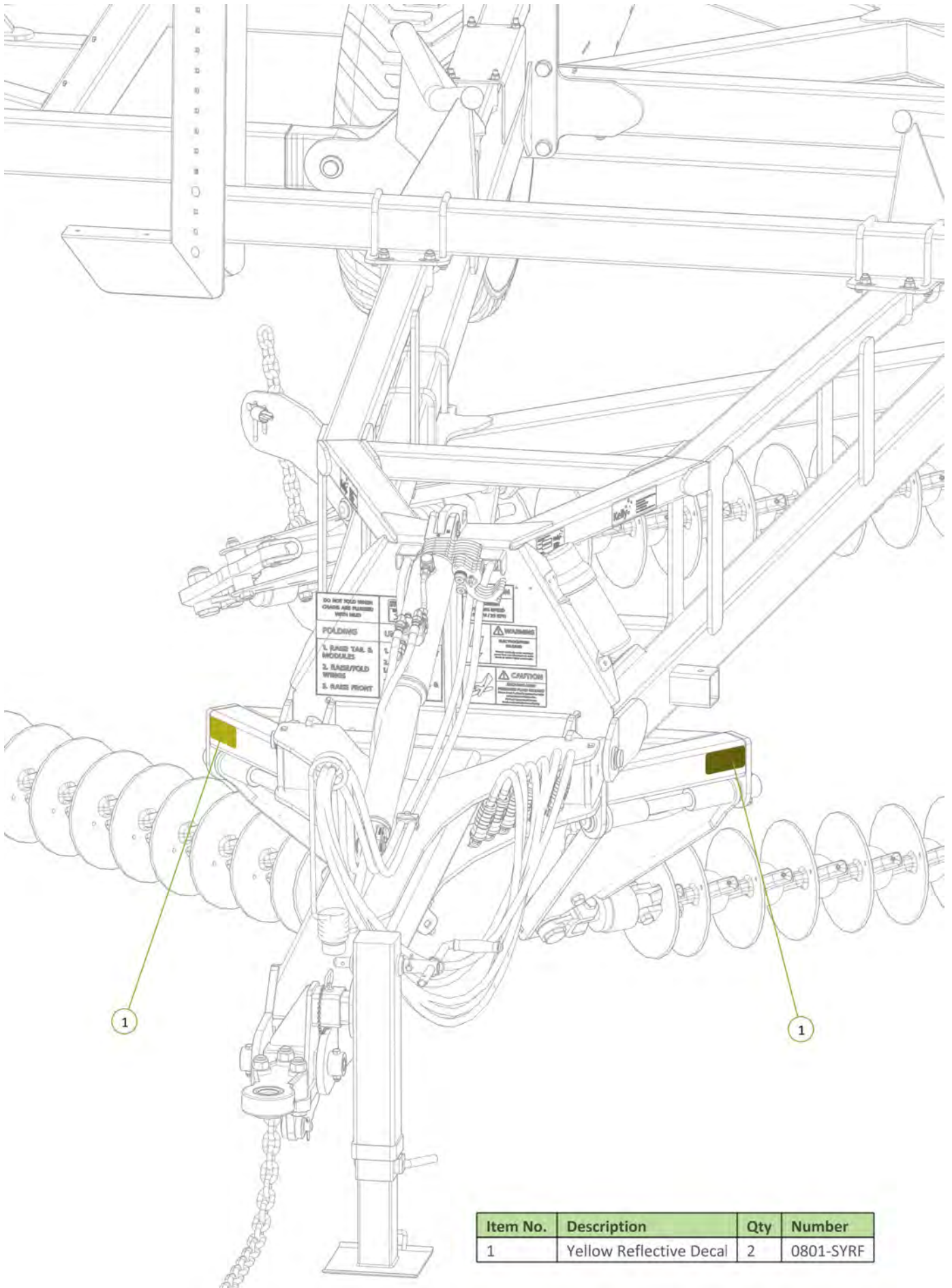


Item No.	Description	Qty	Number
1	Data Plate	1	0801-SDP

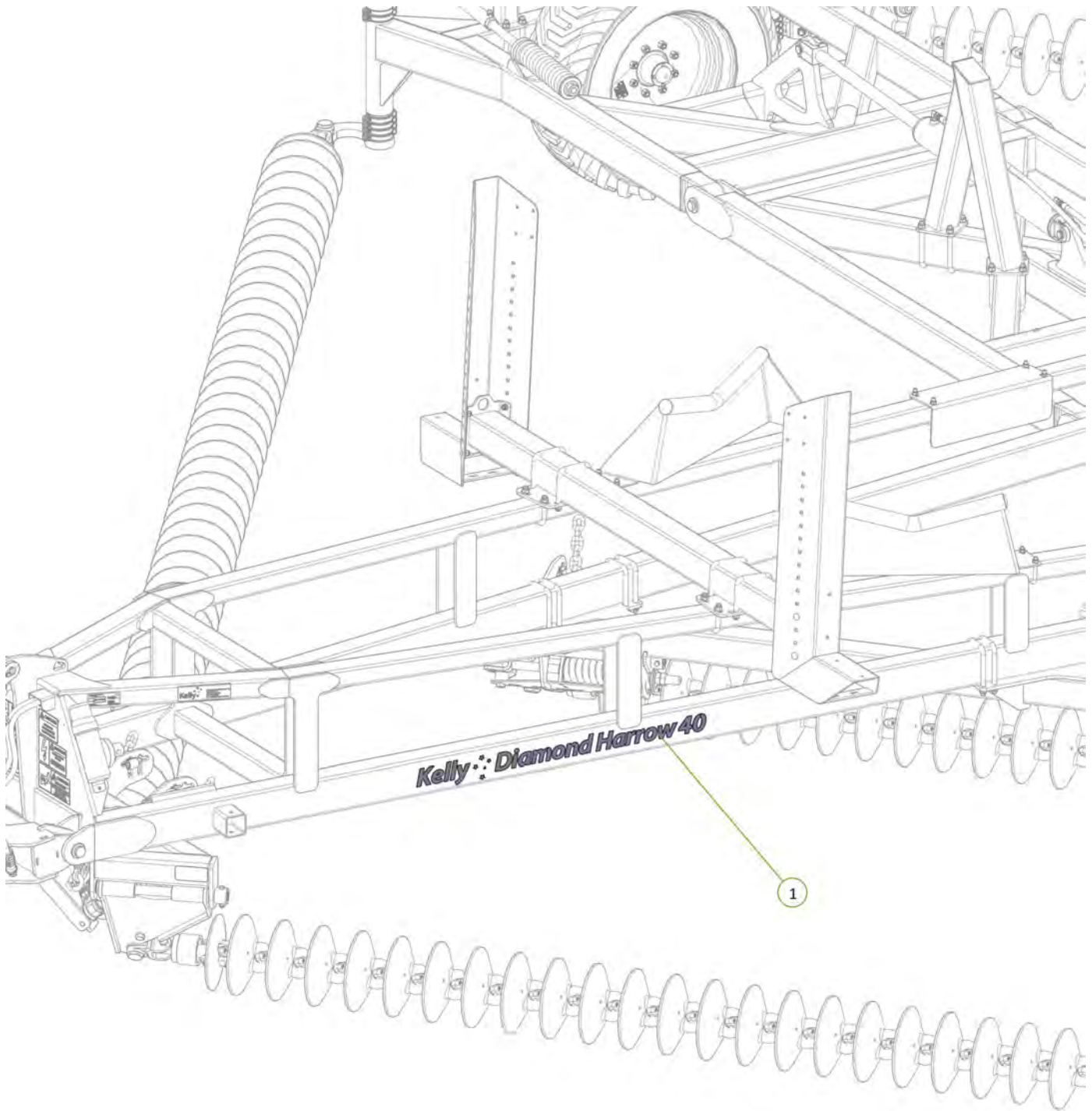


Item No.	Description	Qty	Number
1	Kelly Engineering Decal	2	0801-S12



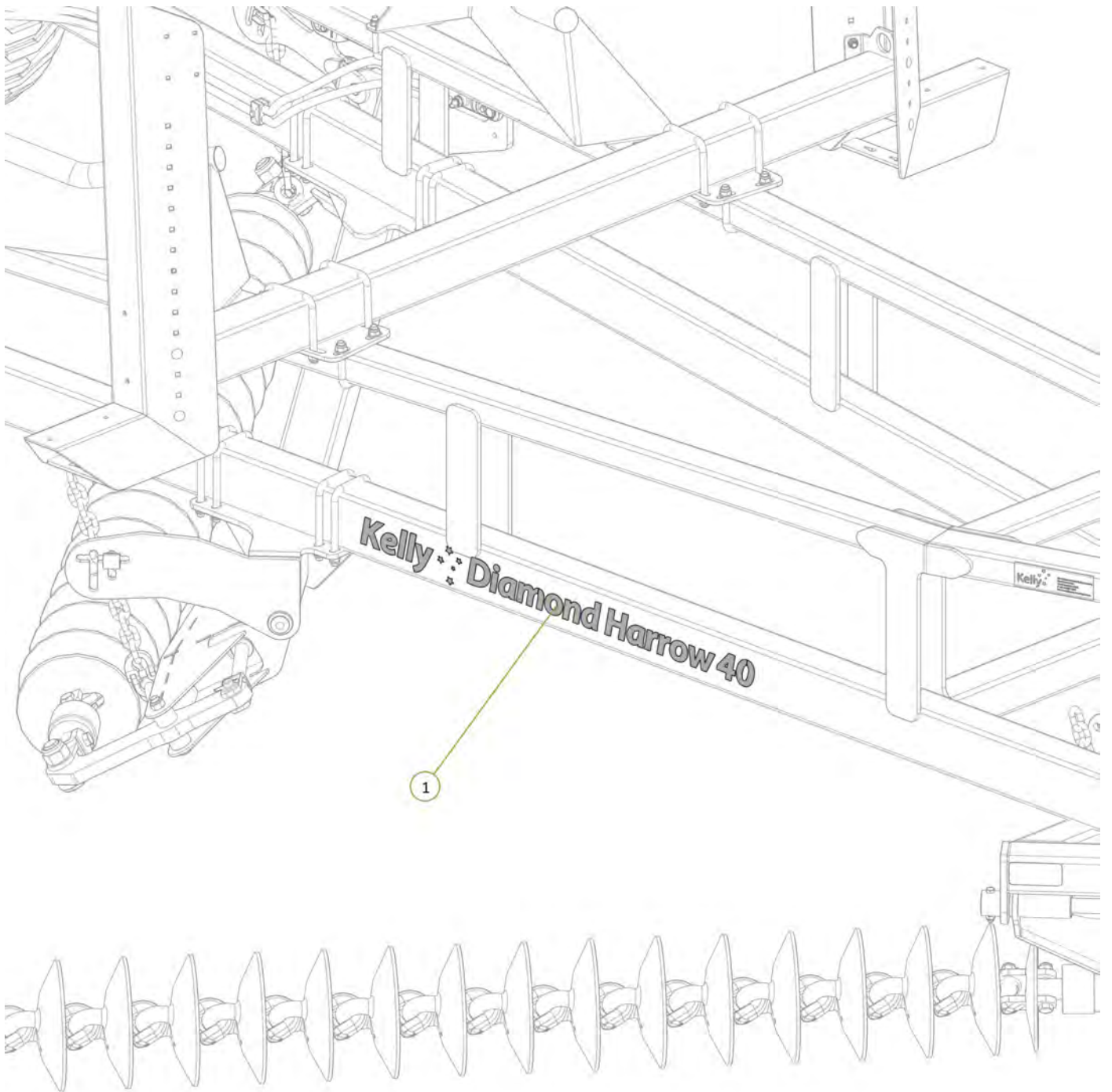


Item No.	Description	Qty	Number
1	Yellow Reflective Decal	2	0801-SYRF



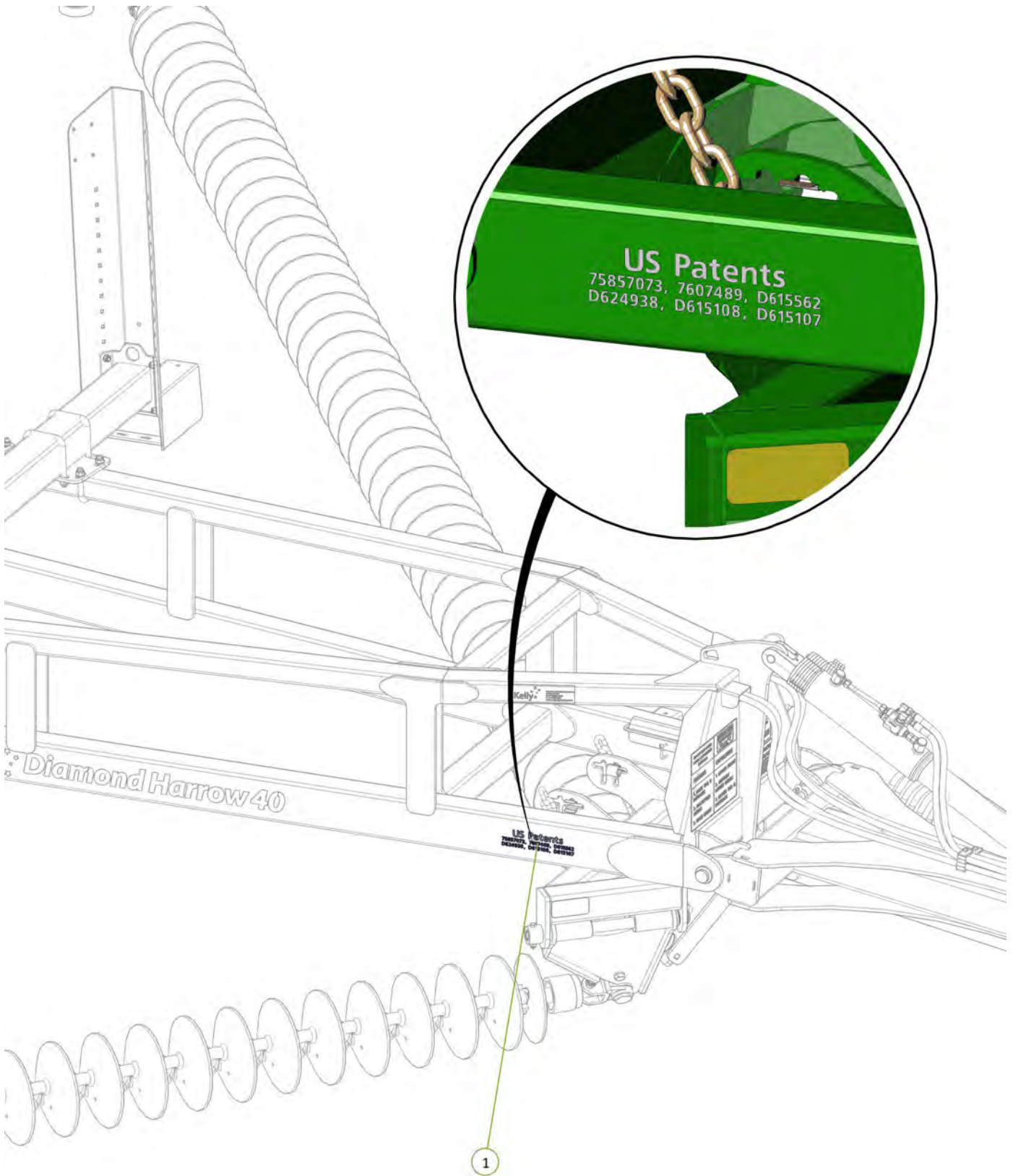
Item No.	Description	Qty	Number
1	Diamond Harrow 40 Decal	1	0801-SKDH40



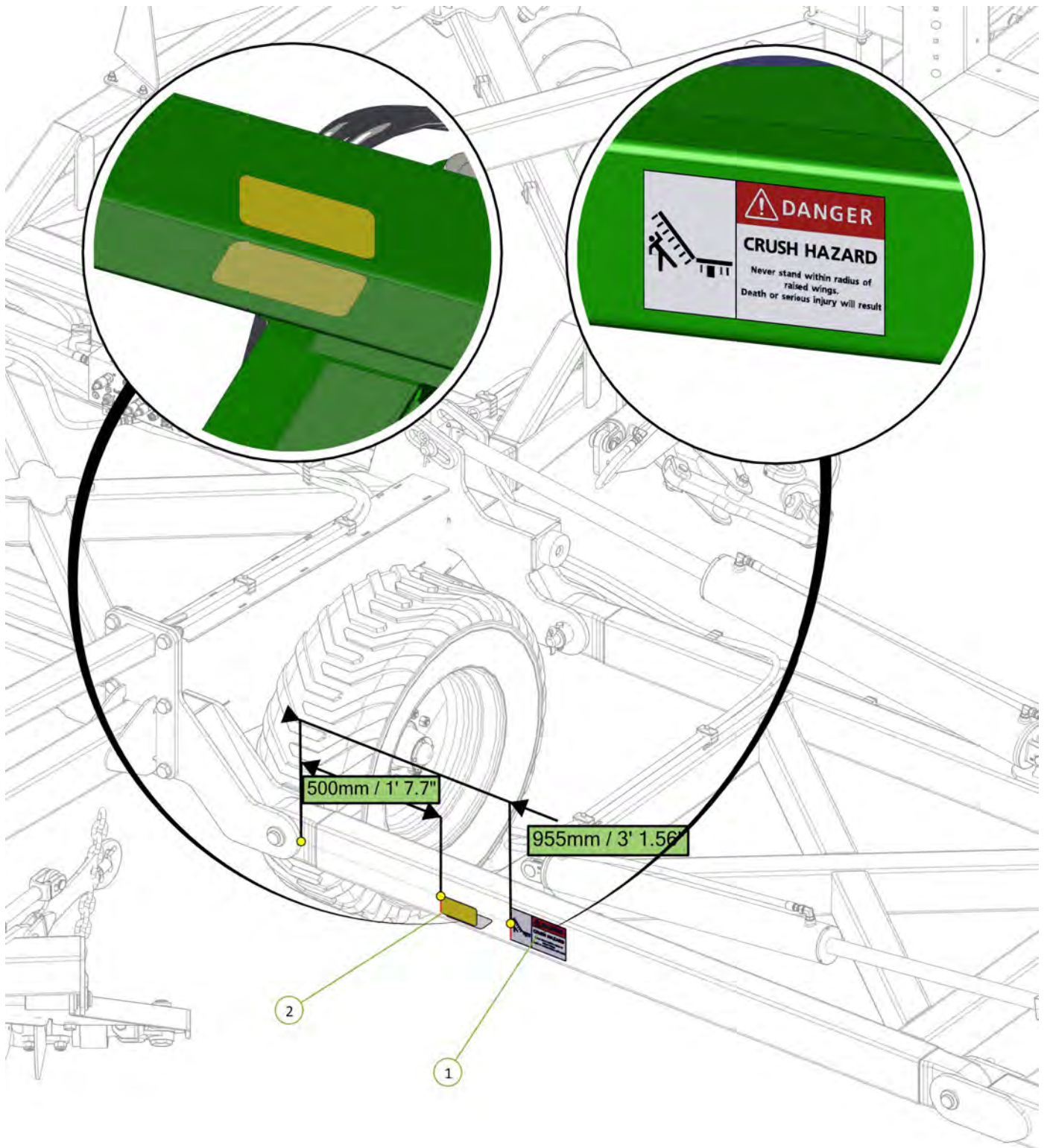


Item No.	Description	Qty	Number
1	Diamond Harrow 40 Decal	1	0801-SKDH40



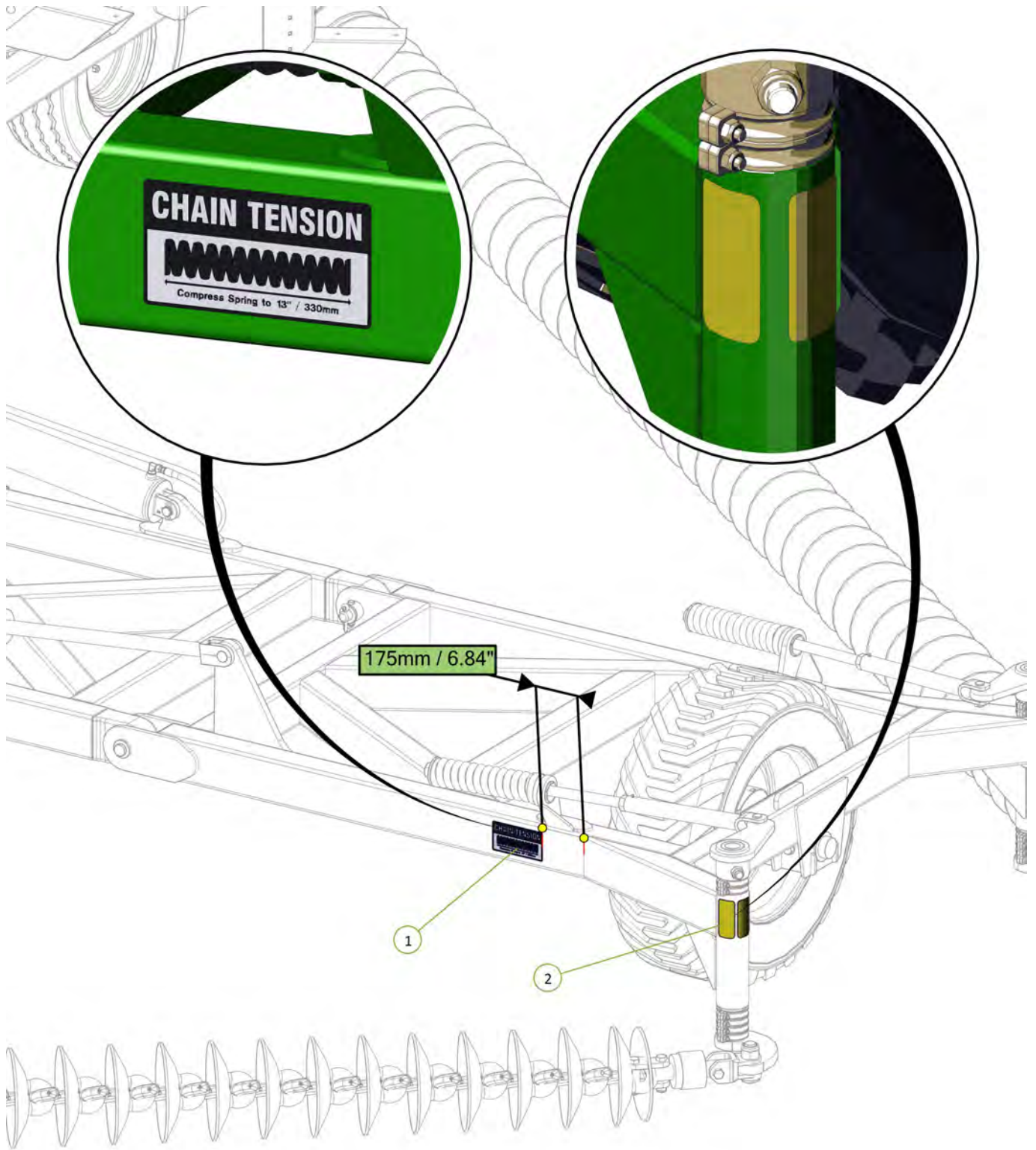


Item No.	Description	Qty	Number
1	USA Patent No. Decal	1	0801-SUSP



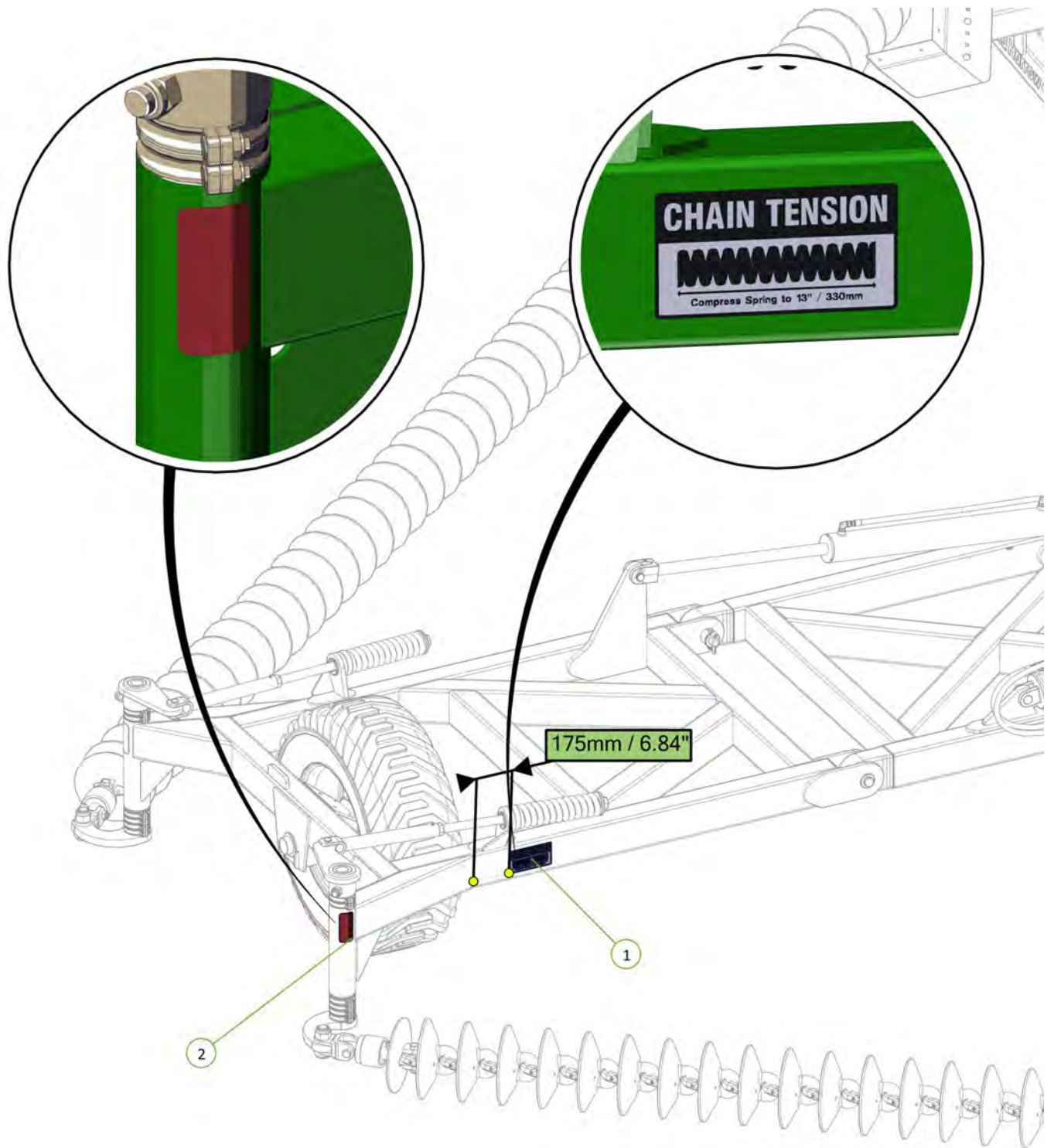
Item No.	Description	Qty	Number
1	Danger Crush Hazard Decal	1	0801-S3
2	Yellow Reflective Decal	2	0801-SYRF





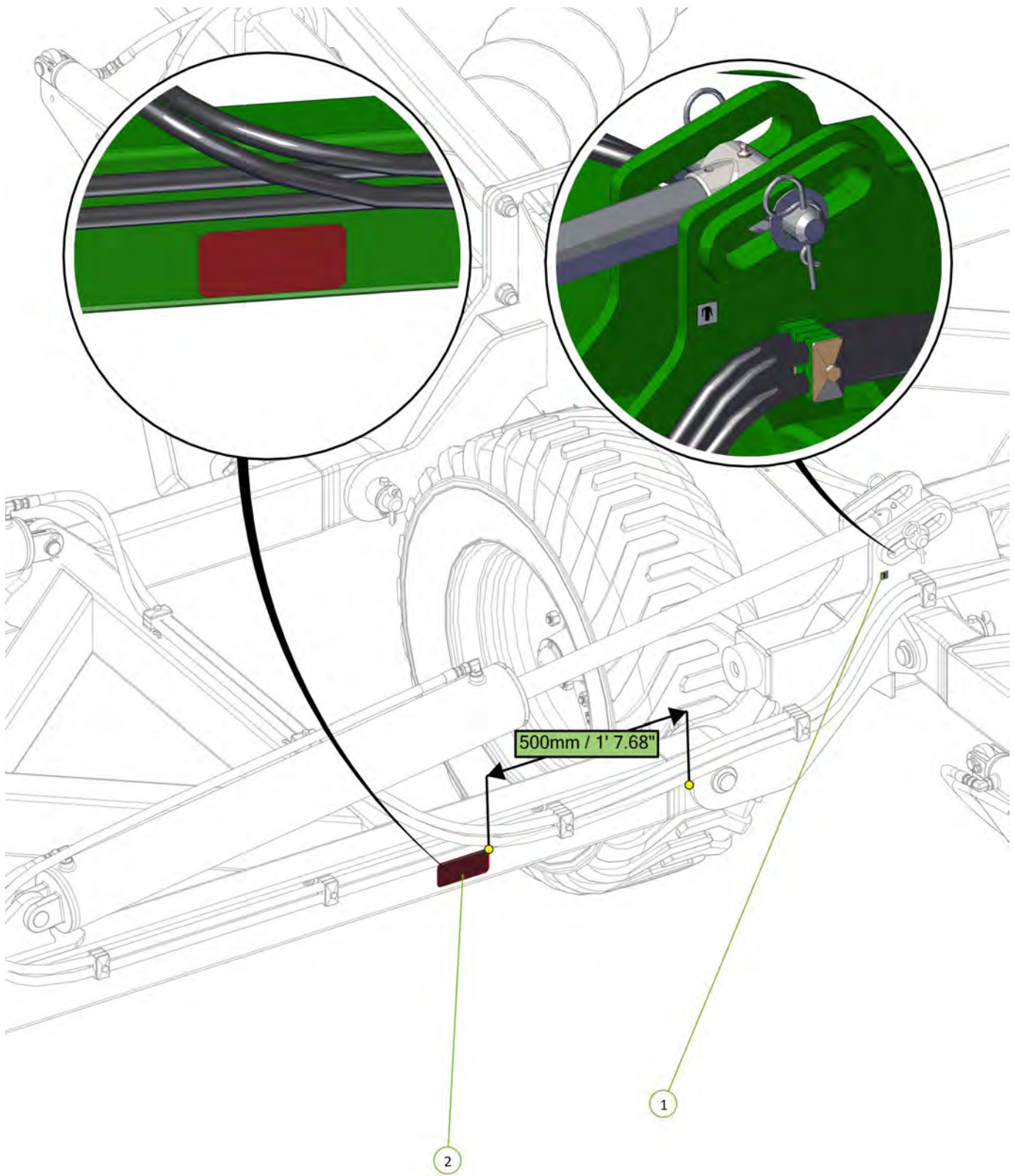
Item No.	Description	Qty	Number
1	Chain Tension 330mm Decal	1	0801-S15
2	Yellow Reflective Decal	2	0801-SYRF





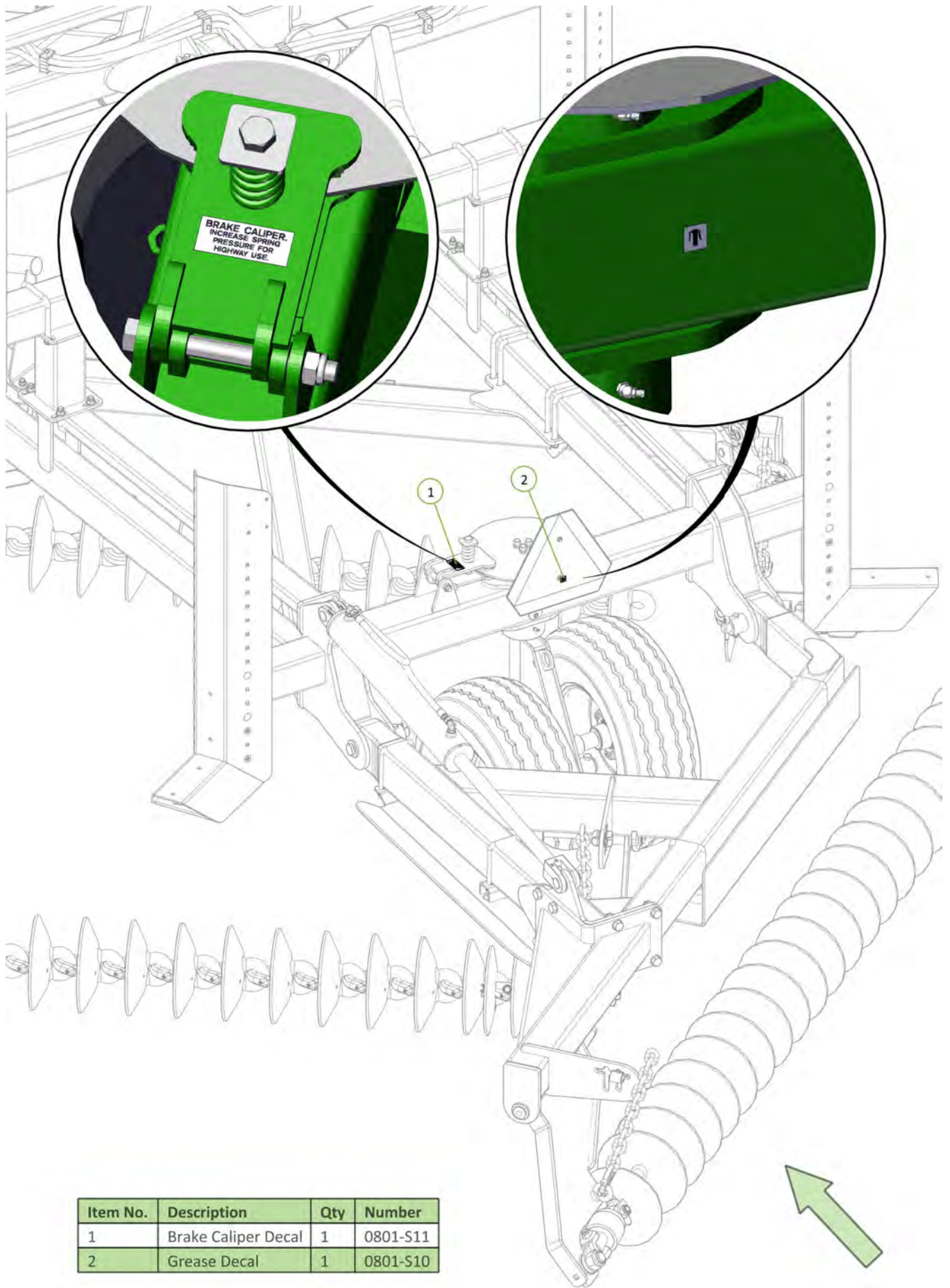
Item No.	Description	Qty	Number
1	Chain Tension 330mm Decal	1	0801-S15
2	Red Reflective Decal	1	0801-SRRF





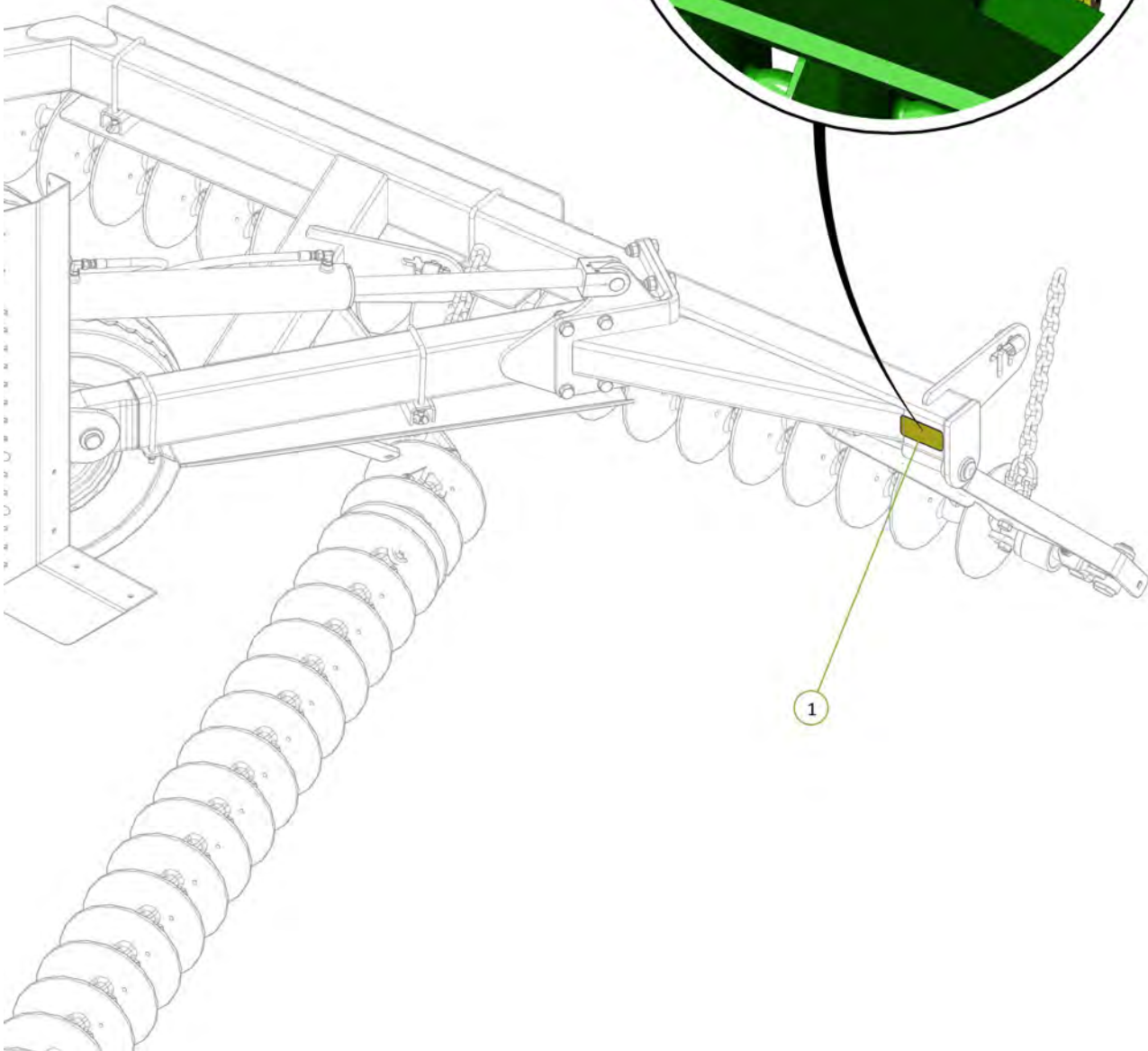
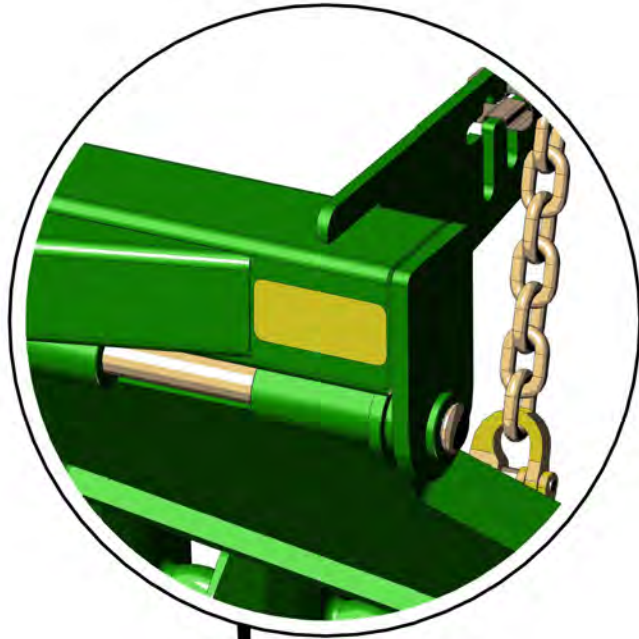
Item No.	Description	Qty	Number
1	Grease Decal	1	0801-S10
2	Red Reflective Decal	1	0801-SRRF





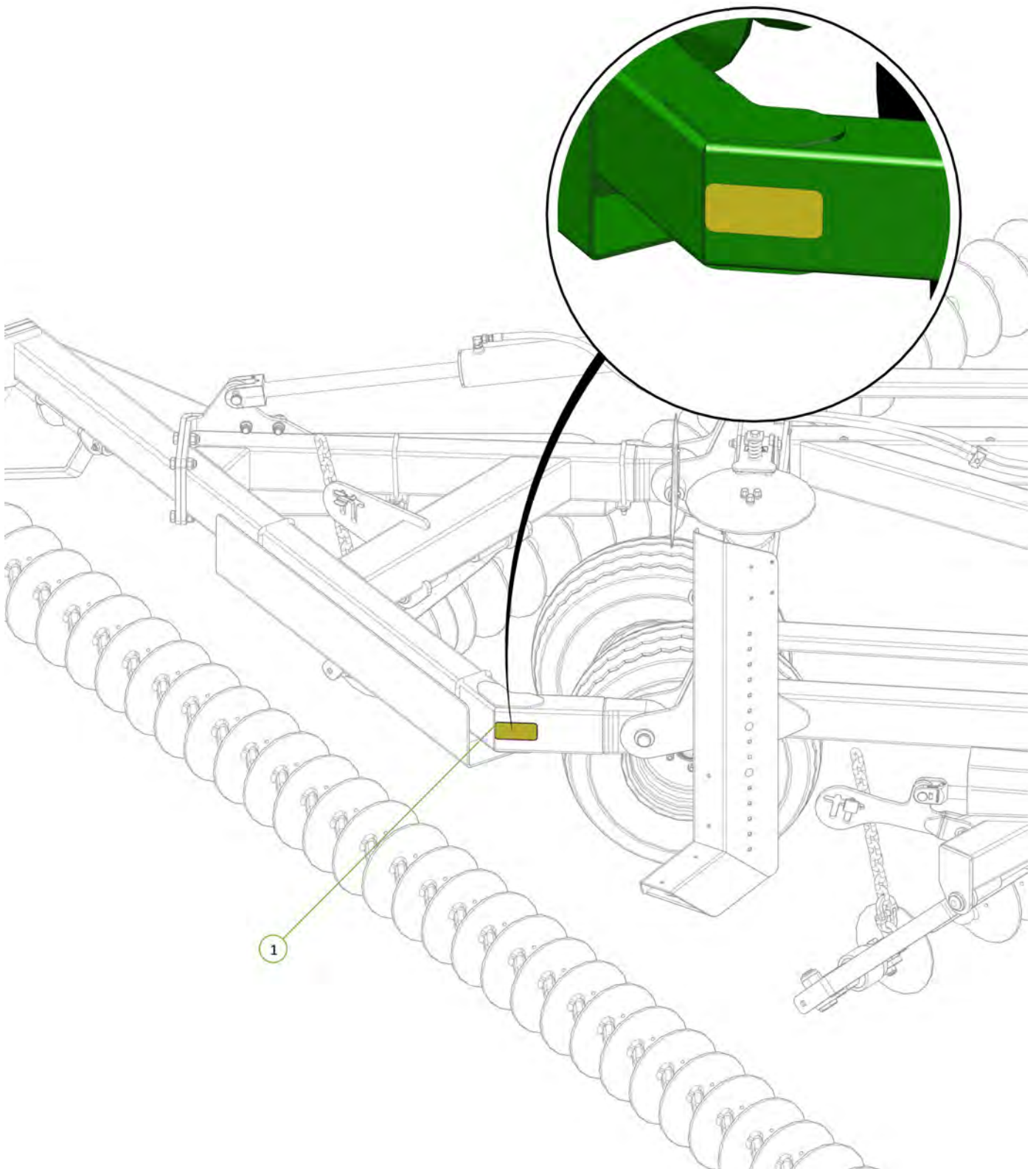
Item No.	Description	Qty	Number
1	Brake Caliper Decal	1	0801-S11
2	Grease Decal	1	0801-S10

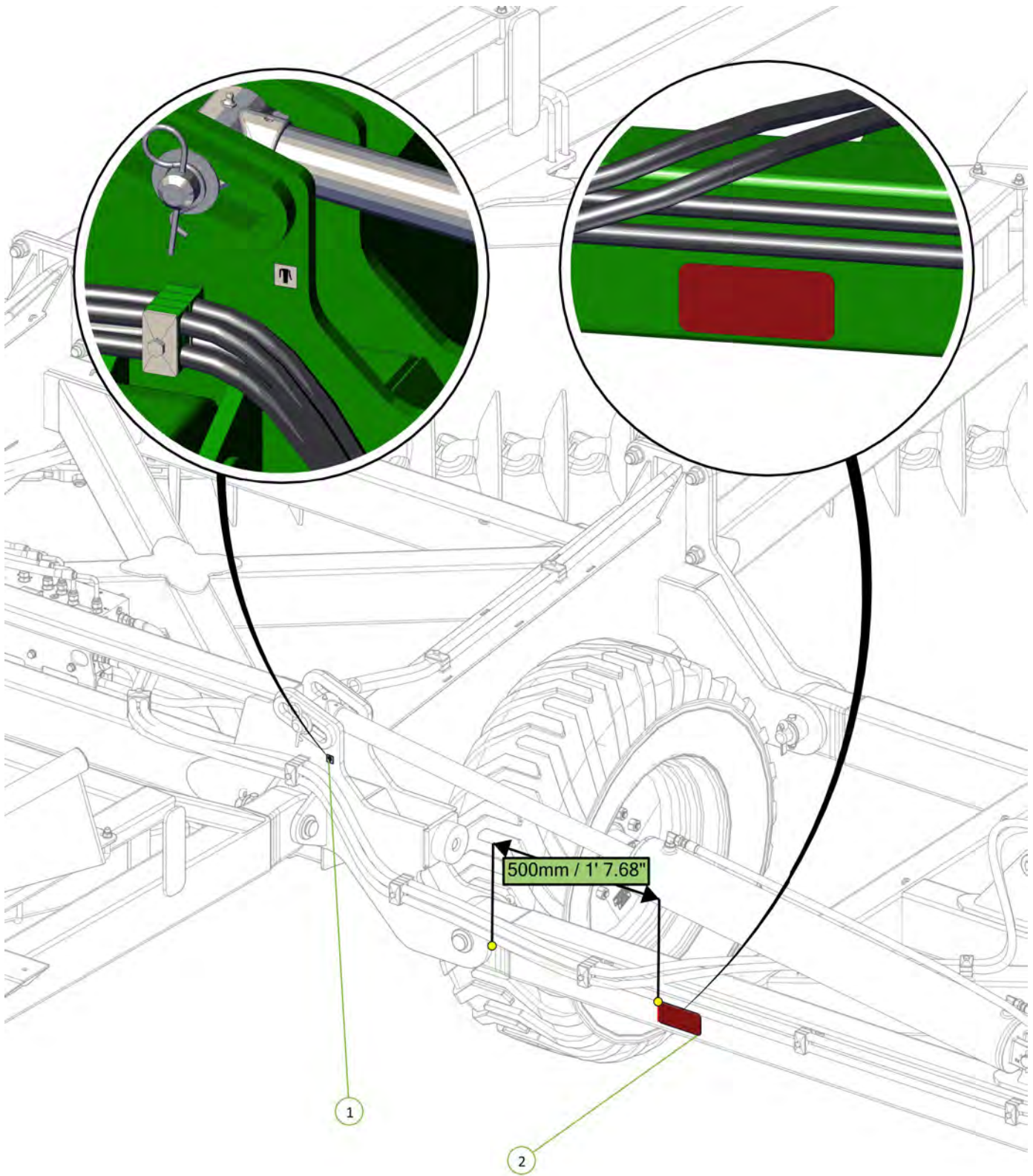
Item No.	Description	Qty	Number
1	Yellow Reflective Decal	1	0801-SYRF



1

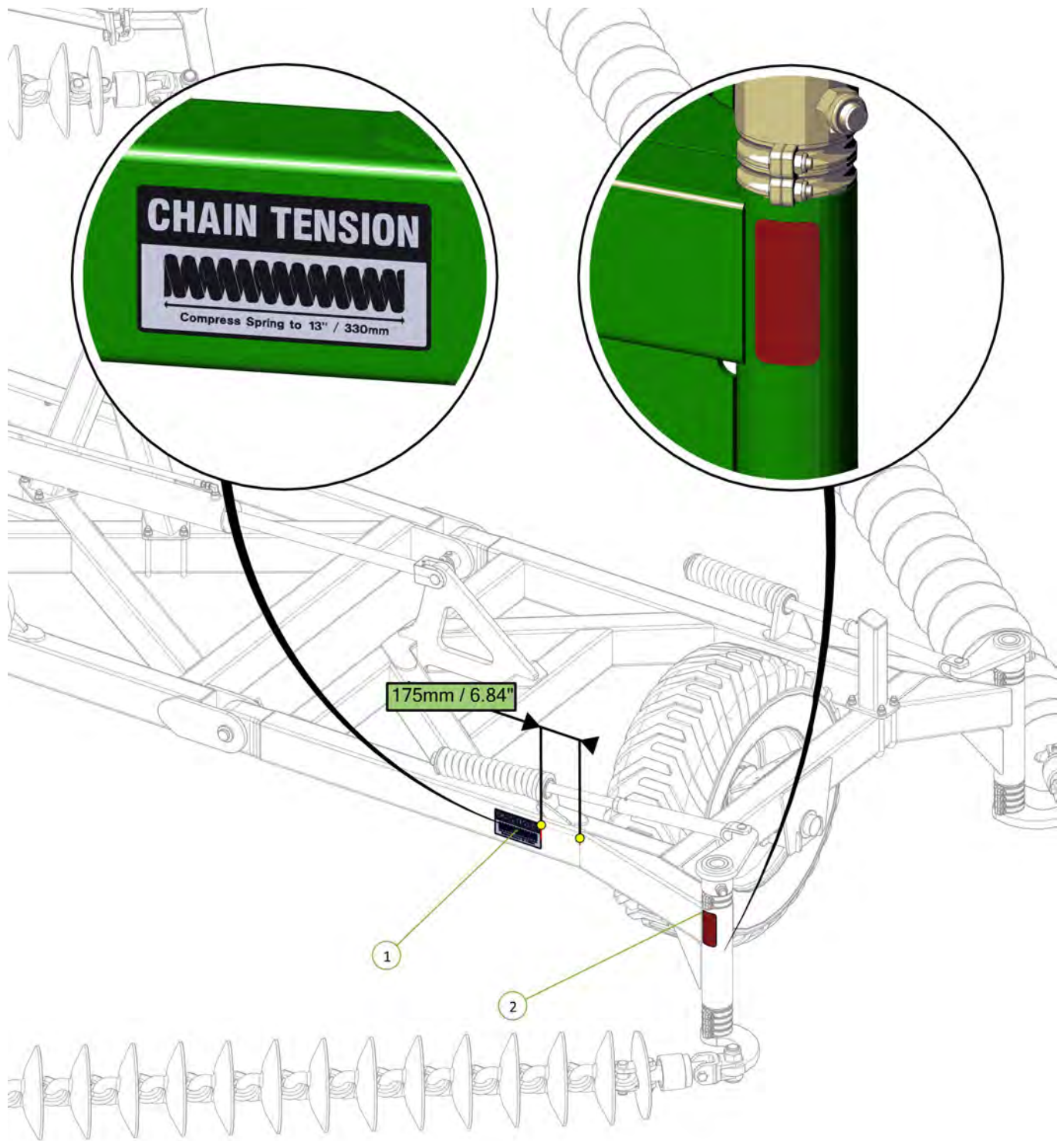
Item No.	Description	Qty	Number
1	Yellow Reflective Decal	1	0801-SYRF





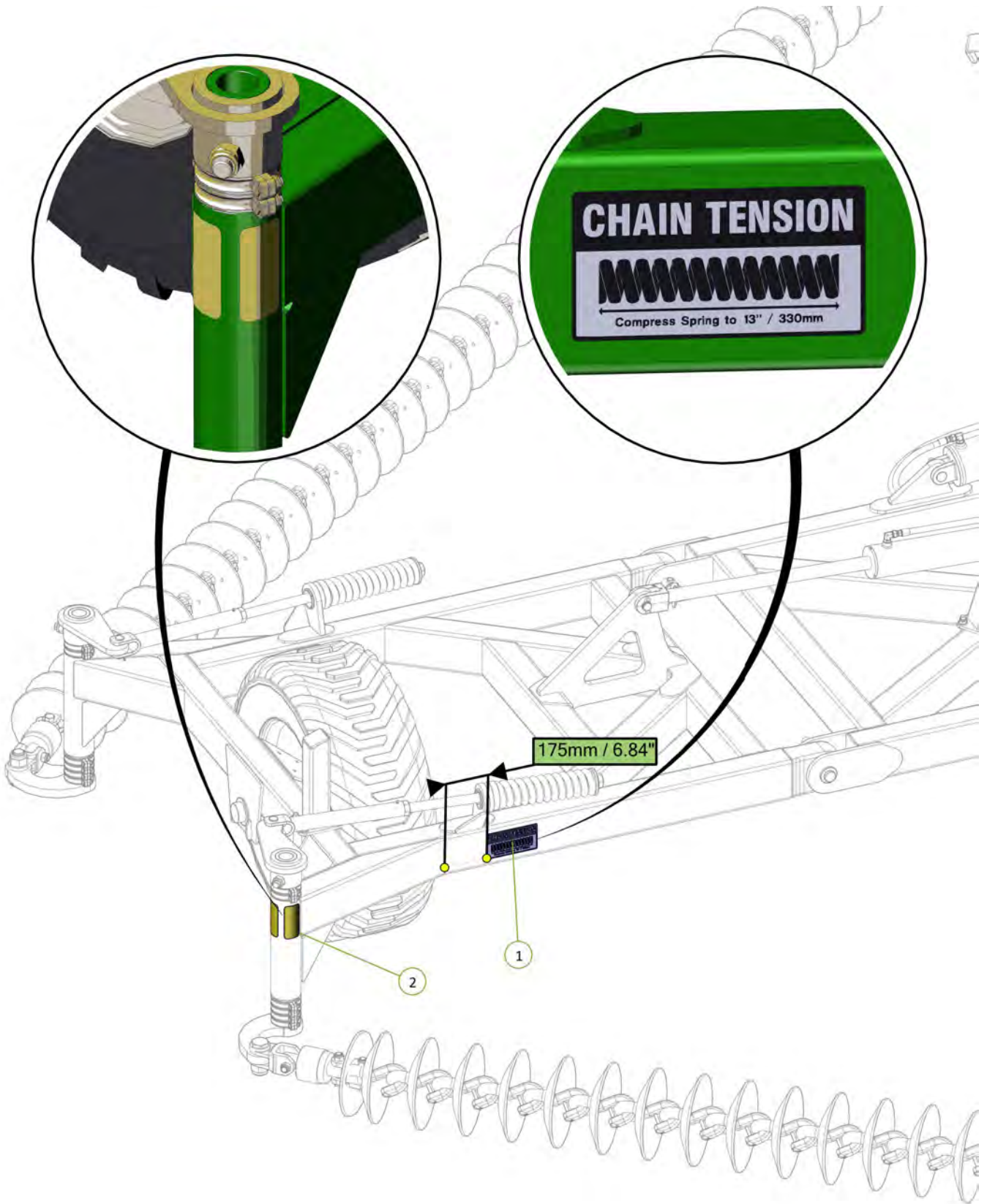
Item No.	Description	Qty	Number
1	Grease Decal	1	0801-S10
2	Red Reflective Decal	1	0801-SRRF





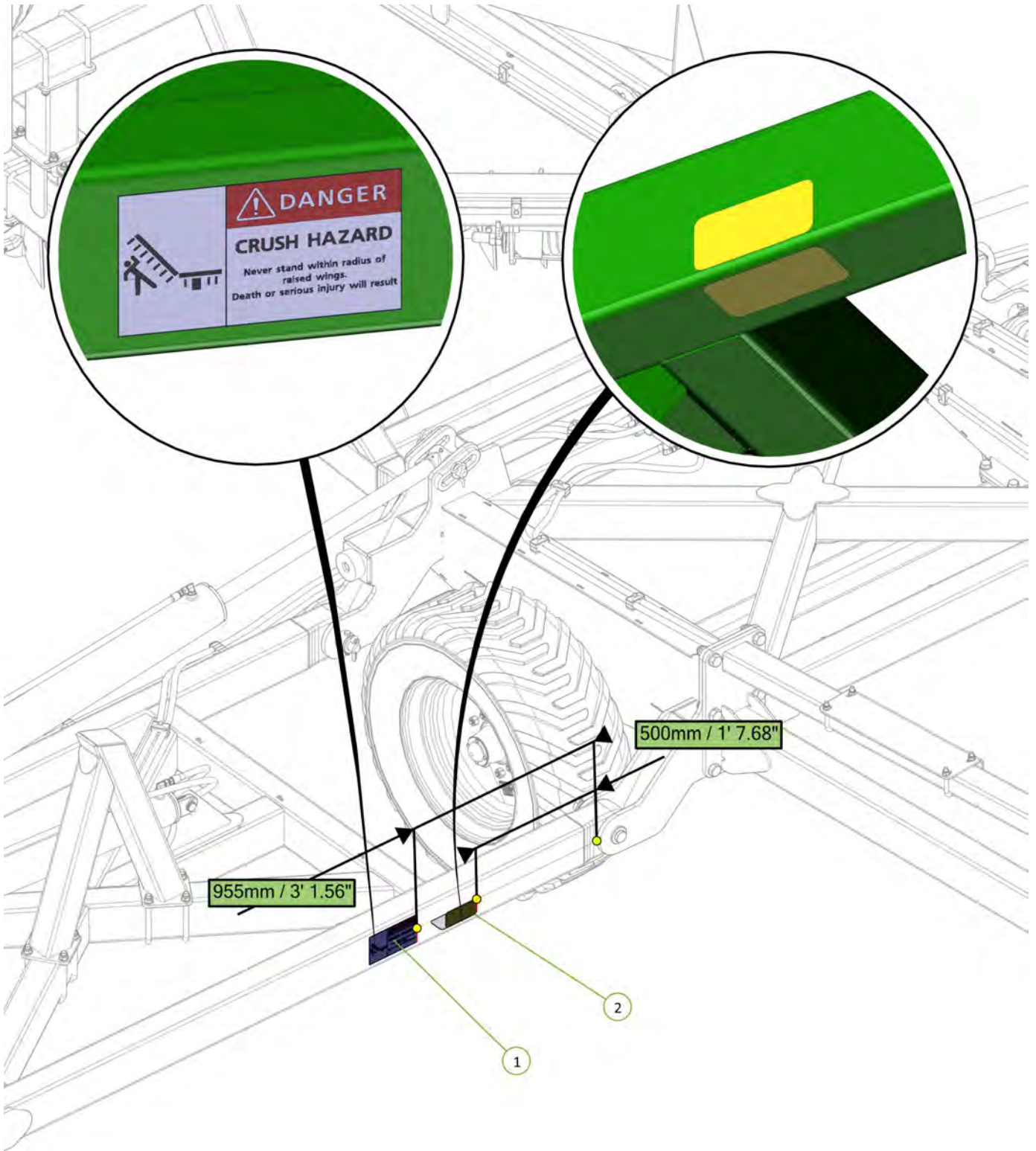
Item No.	Description	Qty	Number
1	Chain Tension 330mm Decal	1	0801-S15
2	Red Reflective Decal	1	0801-SRRF





Item No.	Description	Qty	Number
1	Chain Tension 330mm Decal	1	0801-S15
2	Yellow Reflective Decal	2	0801-SYRF

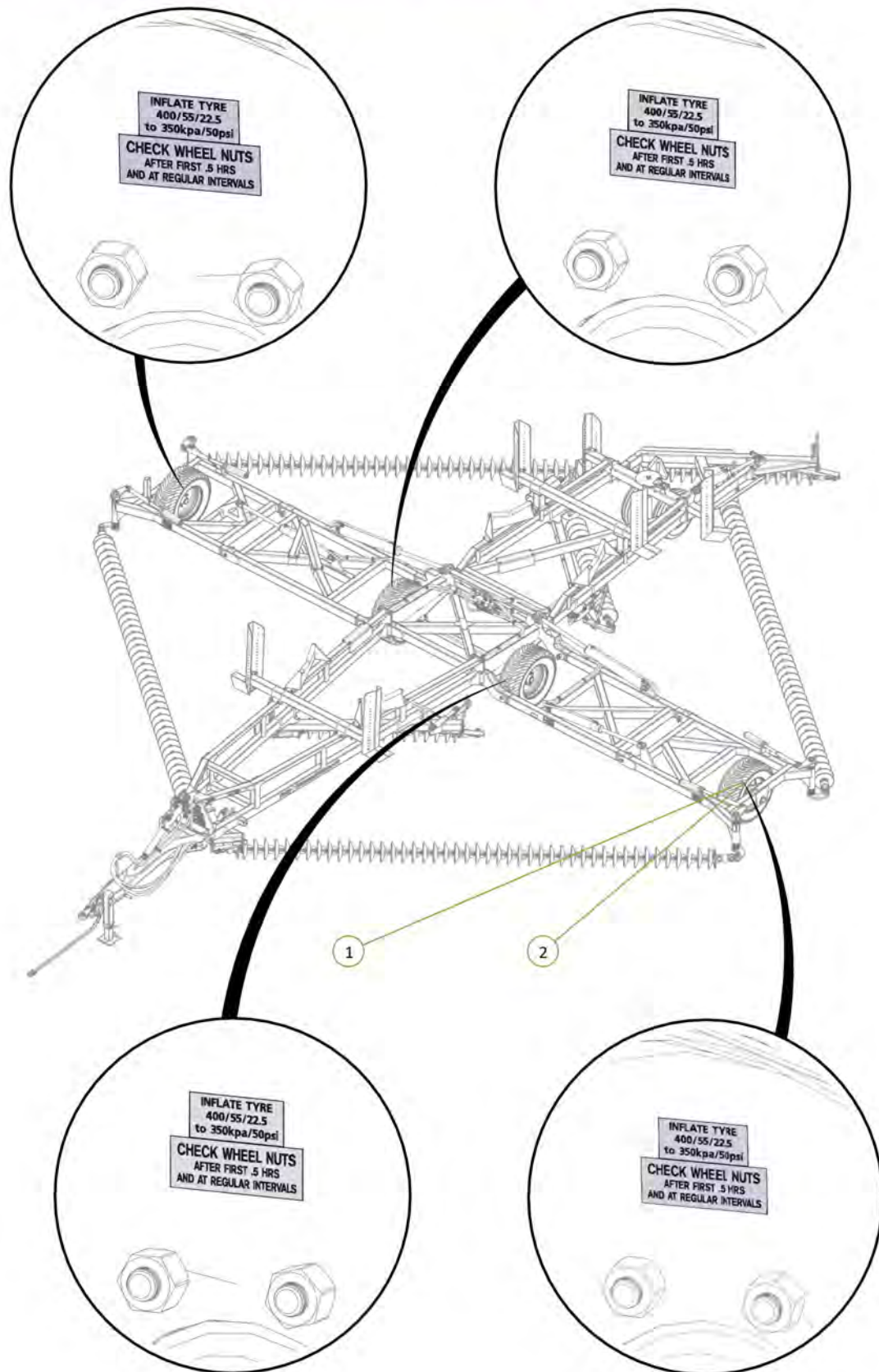




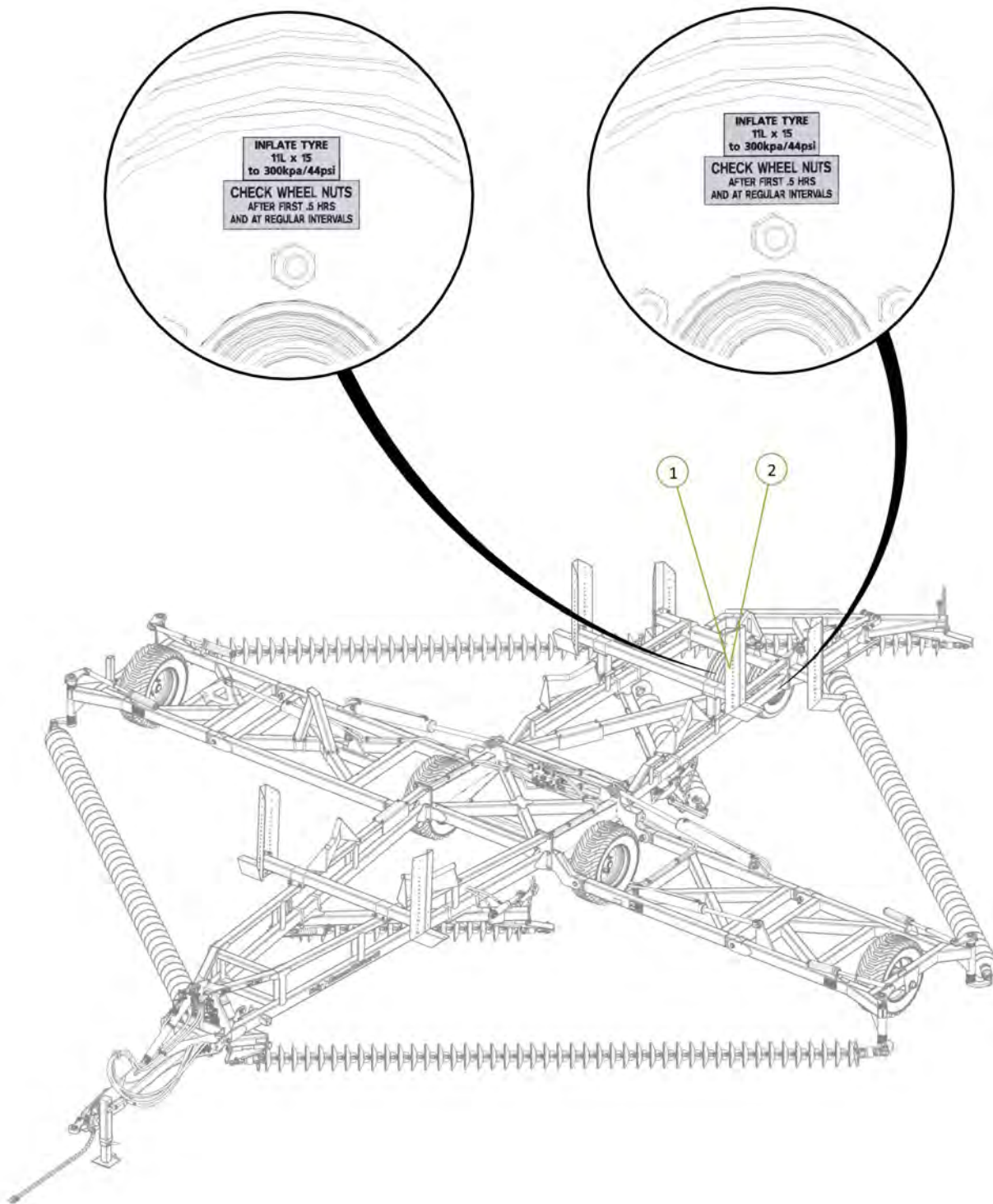
Item No.	Description	Qty	Number
1	Danger Crush Hazard Decal	1	0801-S3
2	Yellow Reflective Decal	2	0801-SYRF



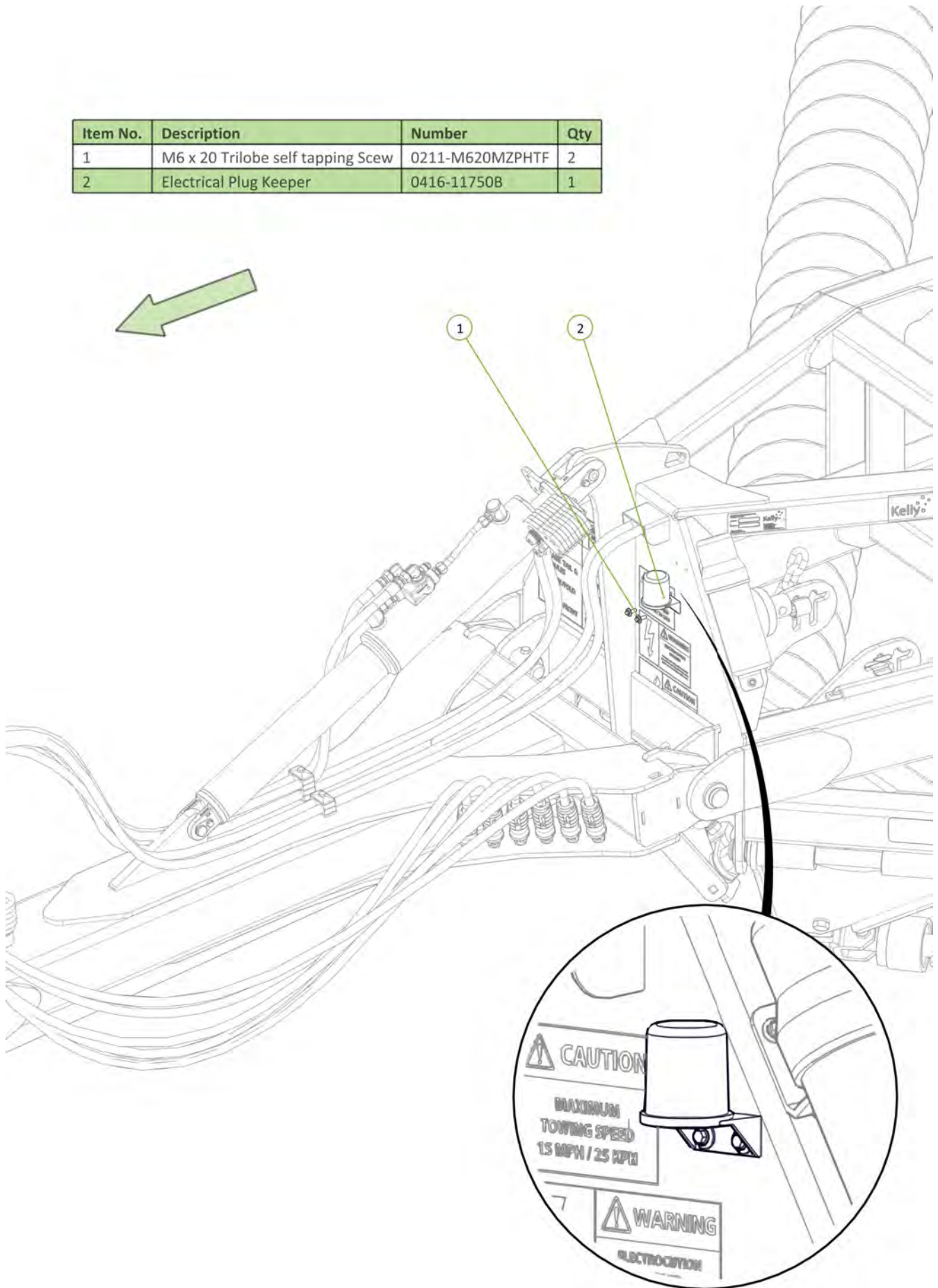
Item No.	Description	Qty	Number
1	Decal, 400/55/22.5 Tyre Inflation	4	0801-S8-400-55-22.5
2	Wheel Nut Decal	4	0801-S9

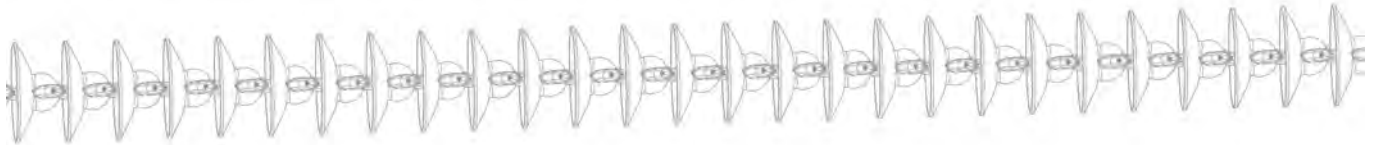
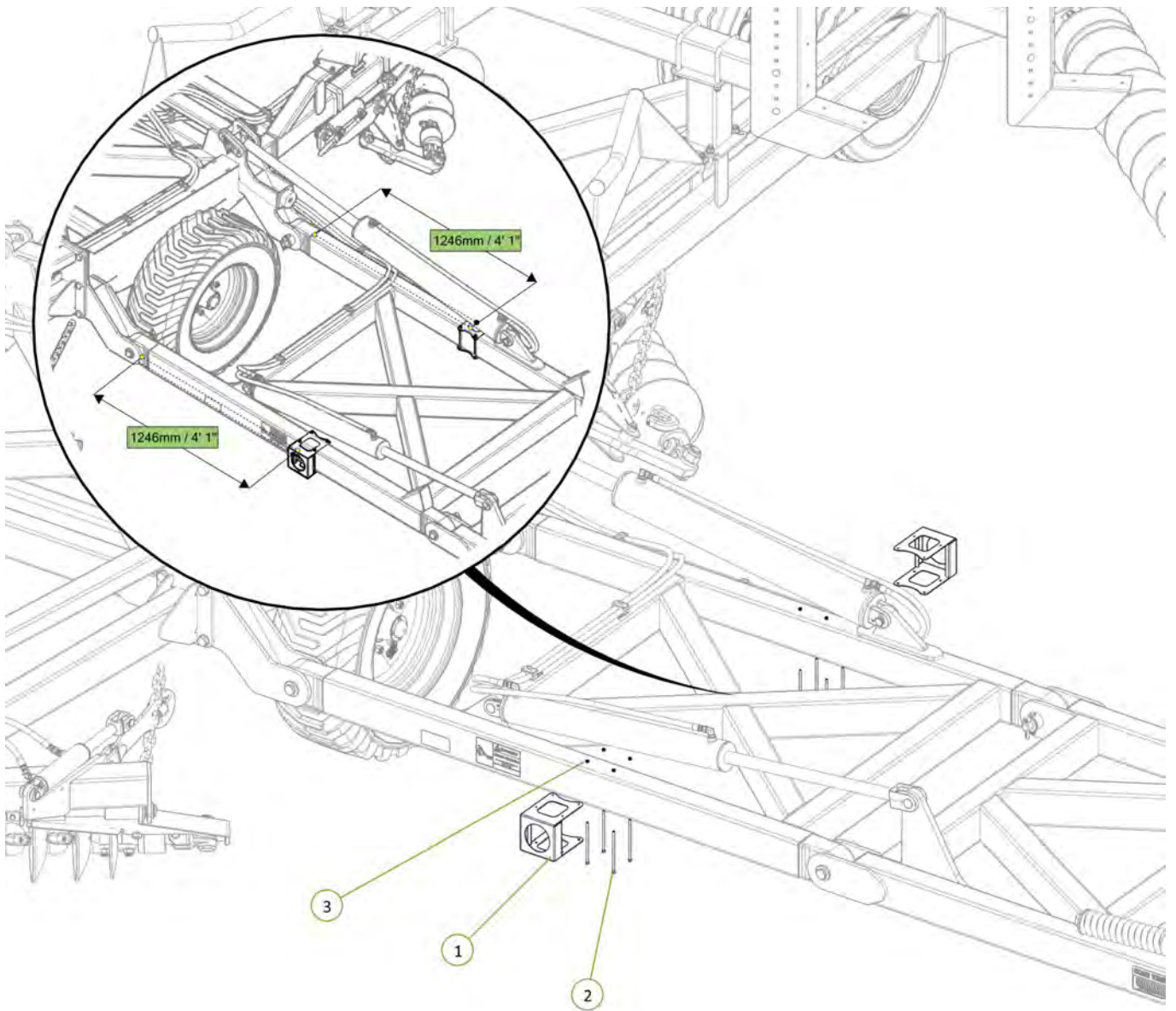


Item No.	Description	Qty	Number
1	Decal, 11L-15 Tyre Inflation	2	0801-S8-11L-15
2	Wheel Nut Decal	2	0801-S9



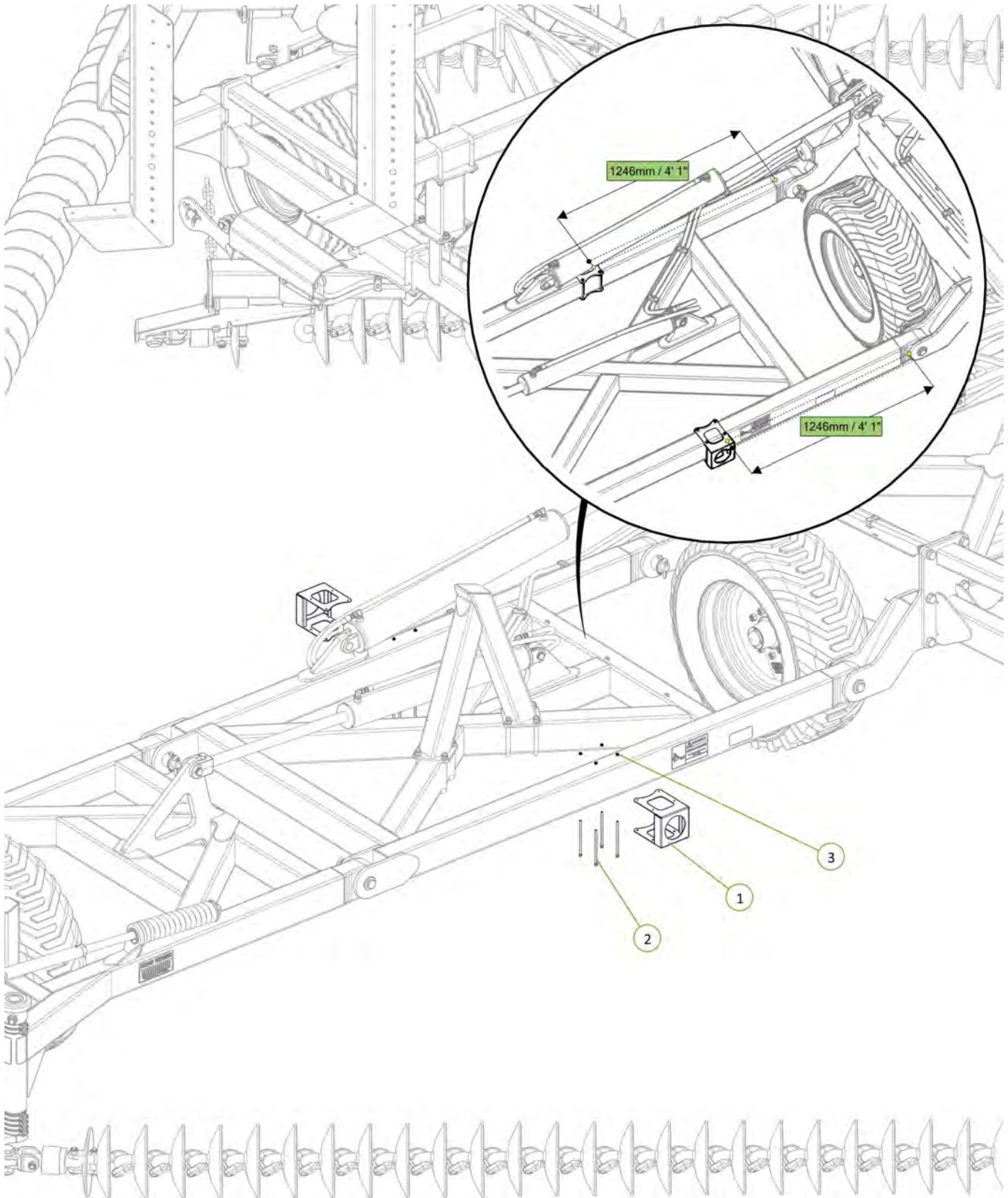
Item No.	Description	Number	Qty
1	M6 x 20 Trilobe self tapping ScREW	0211-M620MZPHTF	2
2	Electrical Plug Keeper	0416-11750B	1





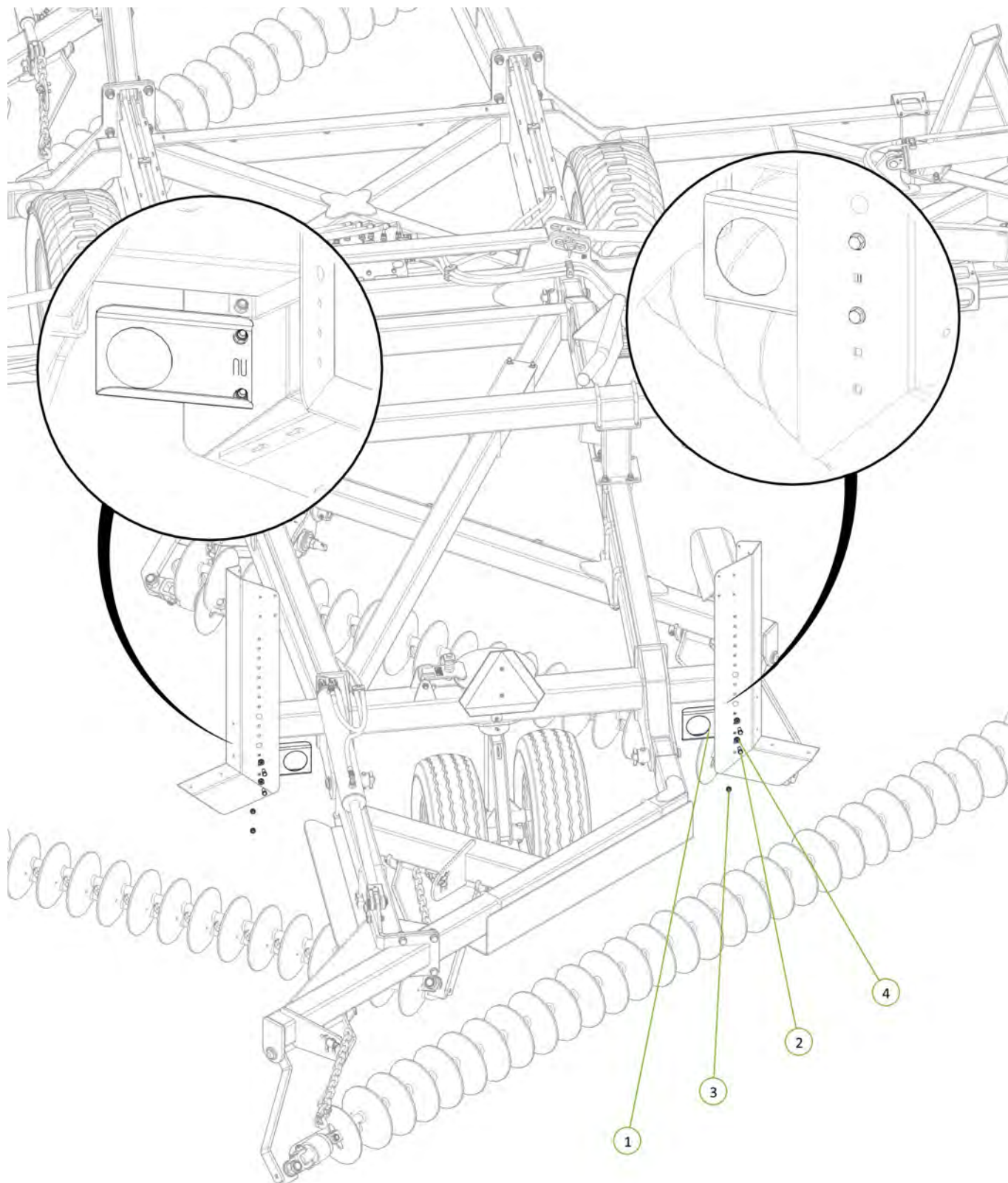
Item No.	Description	Number	Qty
1	Wing light bracket	0800-296	2
2	Socket Head Bolt M6 x 170 zp	0211-SH6170	8
3	Nyloc Nut M6	0221-NYL6	8





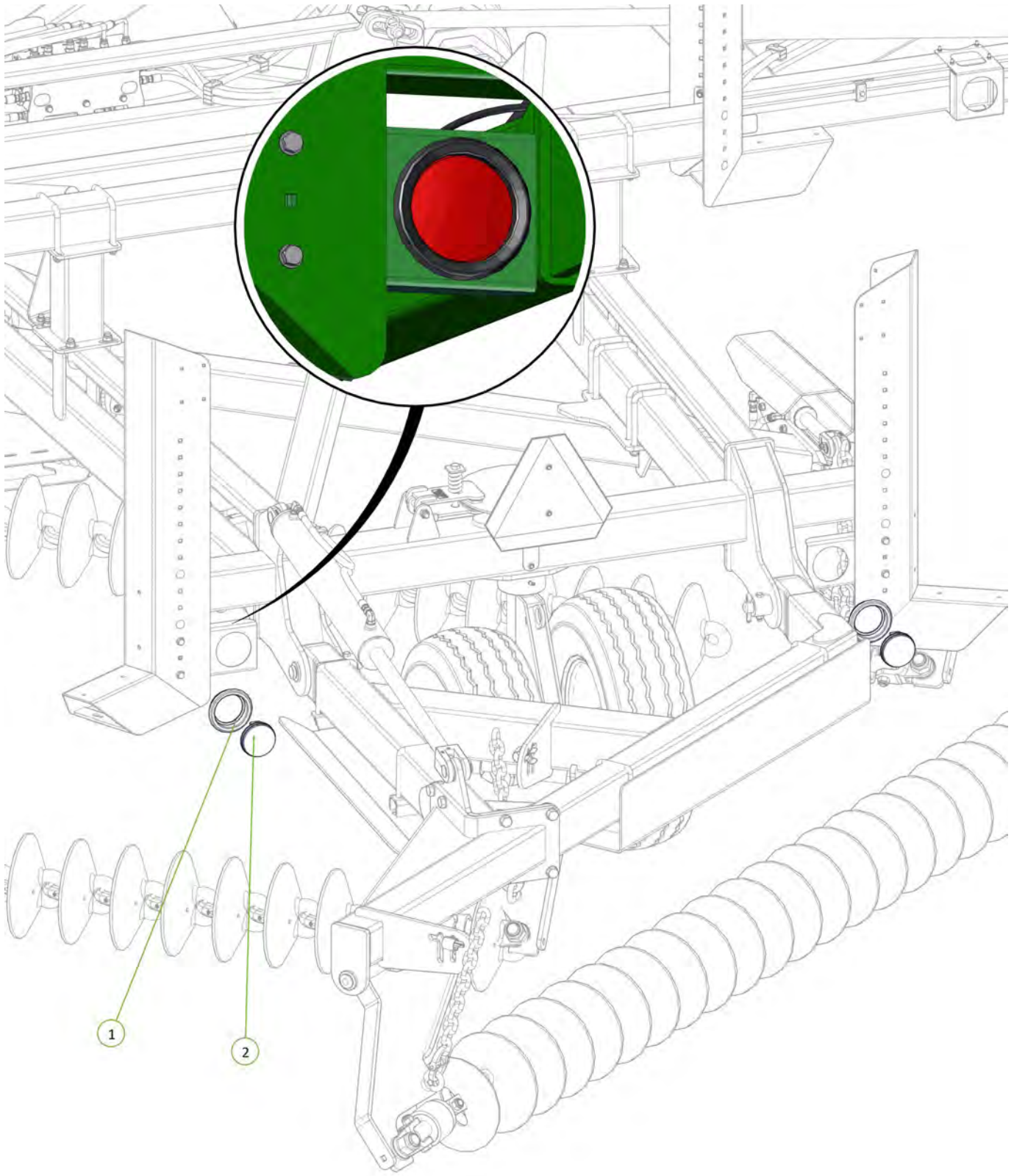
Item No.	Description	Number	Qty
1	Wing light bracket	0800-296	2
2	Socket Head Bolt M6 x 170 zp	0211-SH6170	8
3	Nyloc Nut M6	0221-NYL6	8



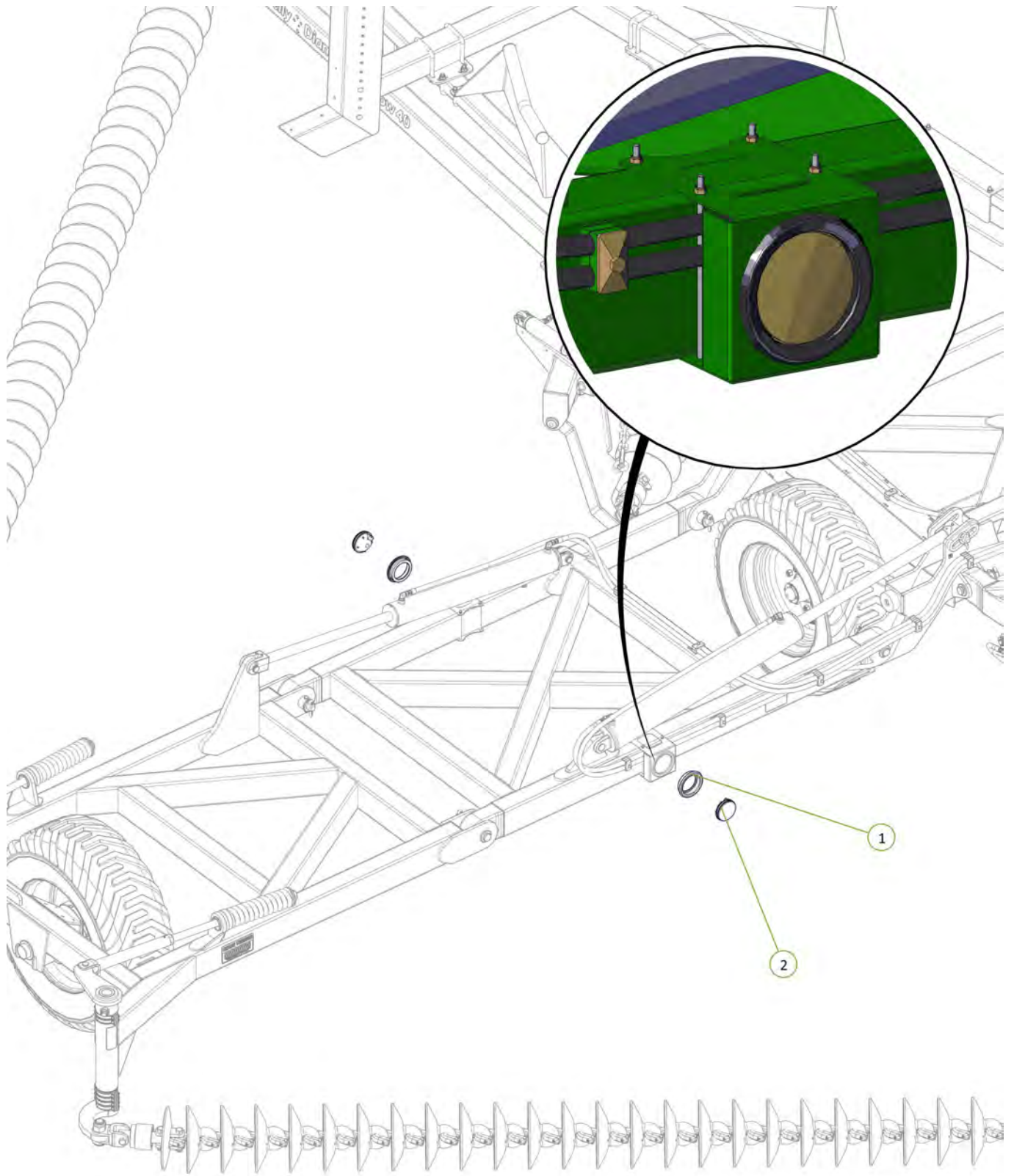


Item No.	Description	Number	Qty
1	Extended Light Bracket	0800-631	2
2	M12 x 30 grade 8.8 ZP Bolt	0211-1230	4
3	Nyloc Nut M12	0221-NYL12	4
4	Washer Flat M12	0231-F12	8



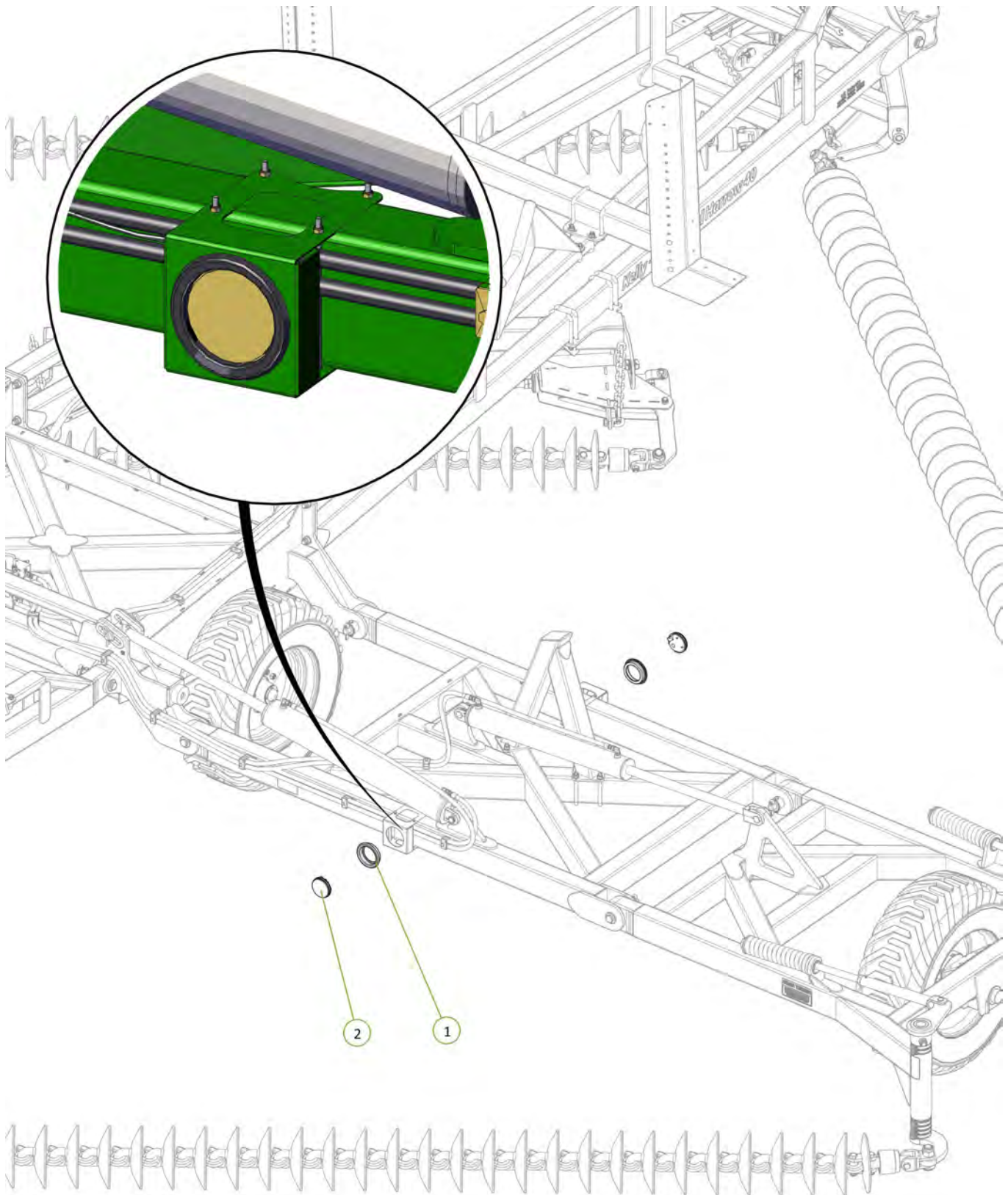


Item No.	Description	Number	Qty
1	110RM Rubber Grommet	0412-53101RG	2
2	LED Stop Tail Lamp	0412-LED110RM	2



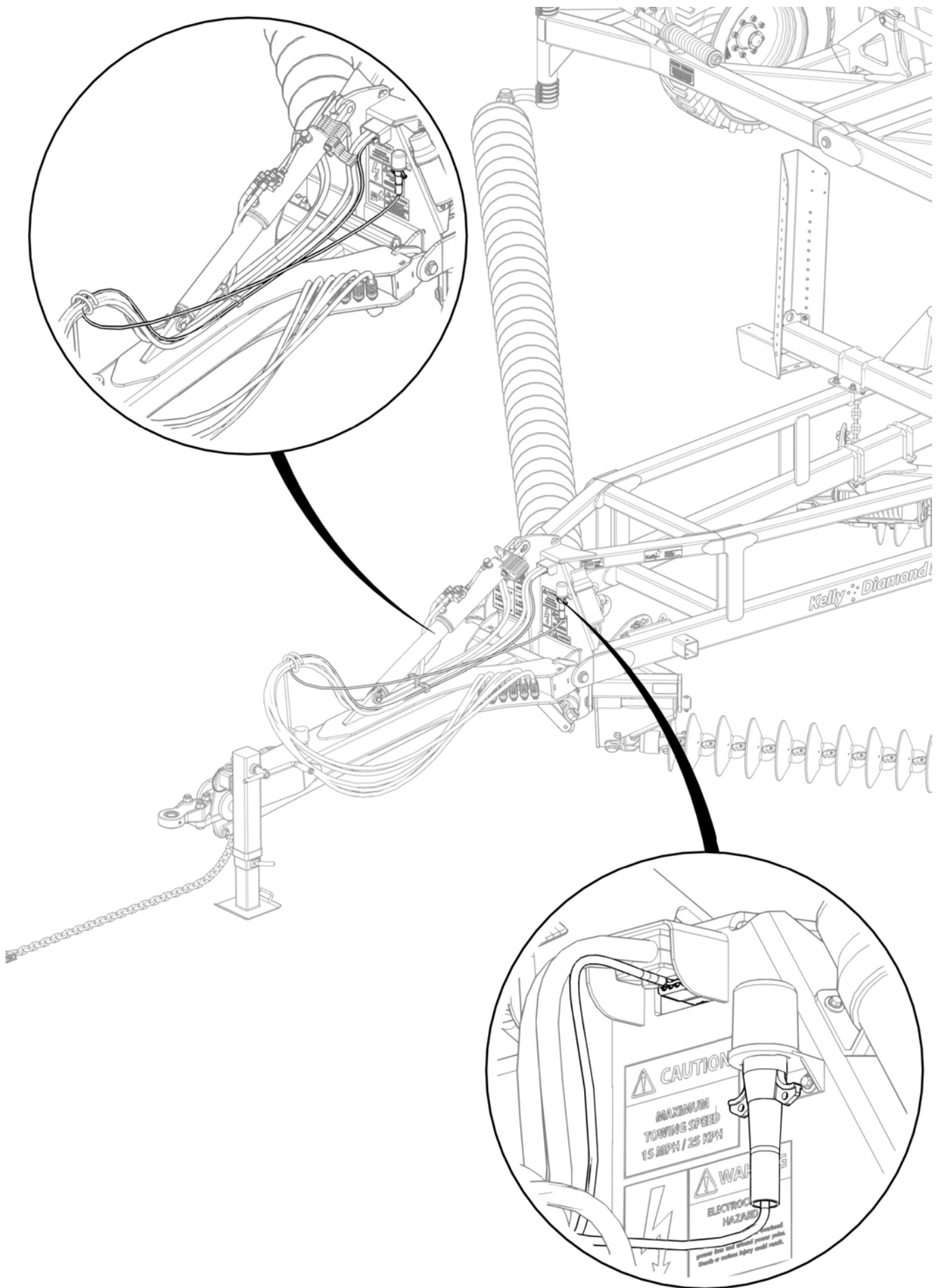
Item No.	Description	Number	Qty
1	110RM Rubber Grommet	0412-53101RG	2
2	LED Rear Indicator Lamp	0412-LED110AM	2

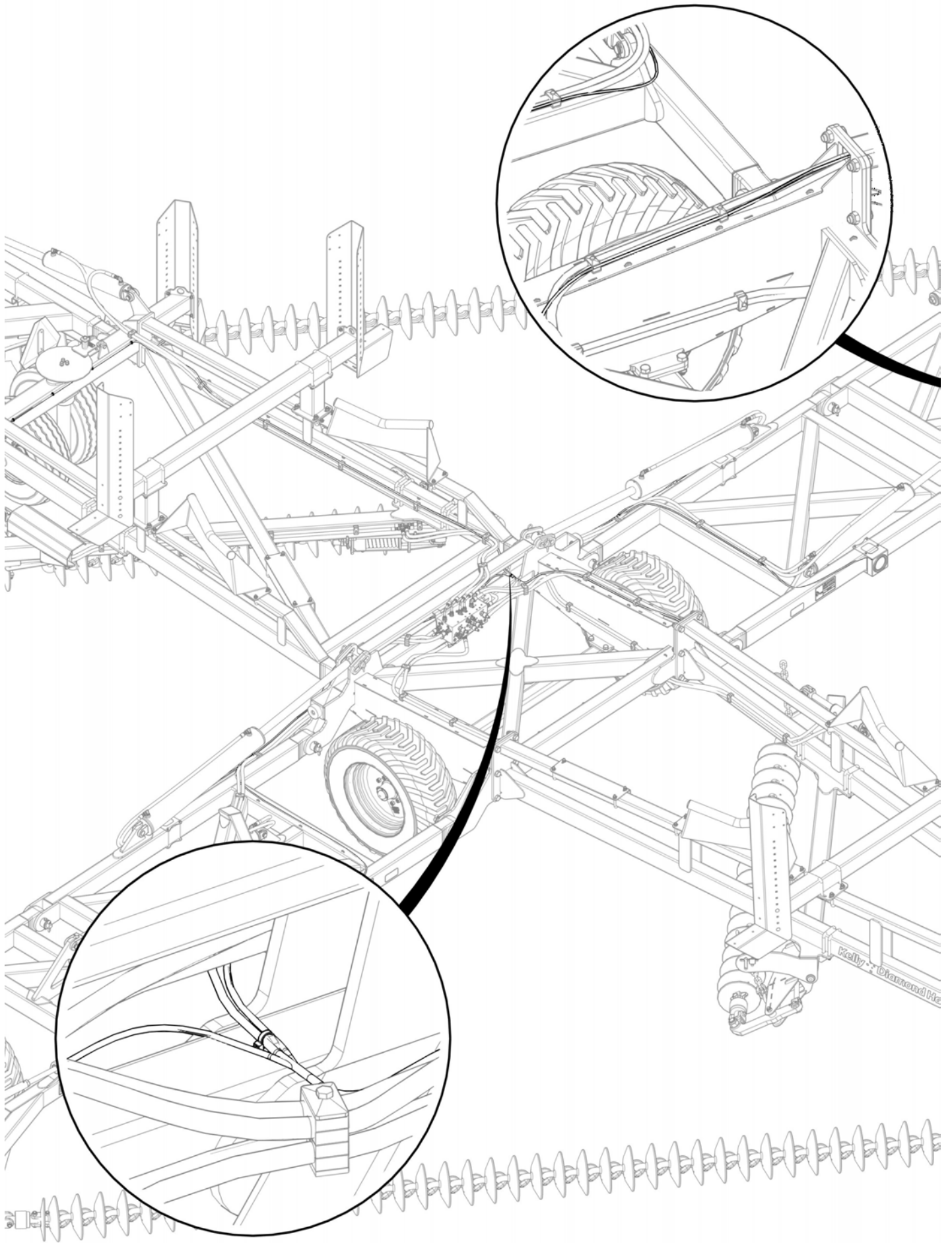


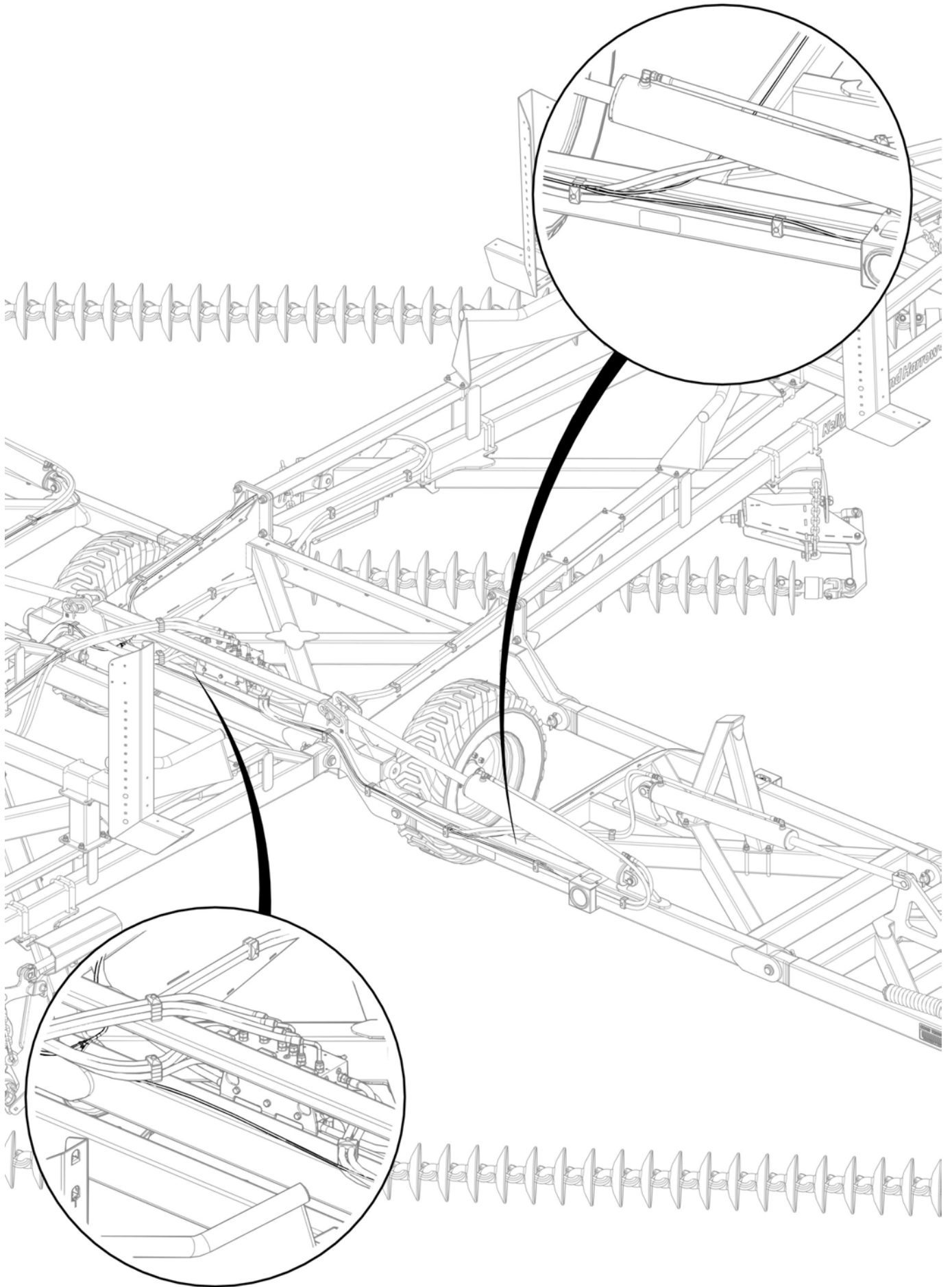


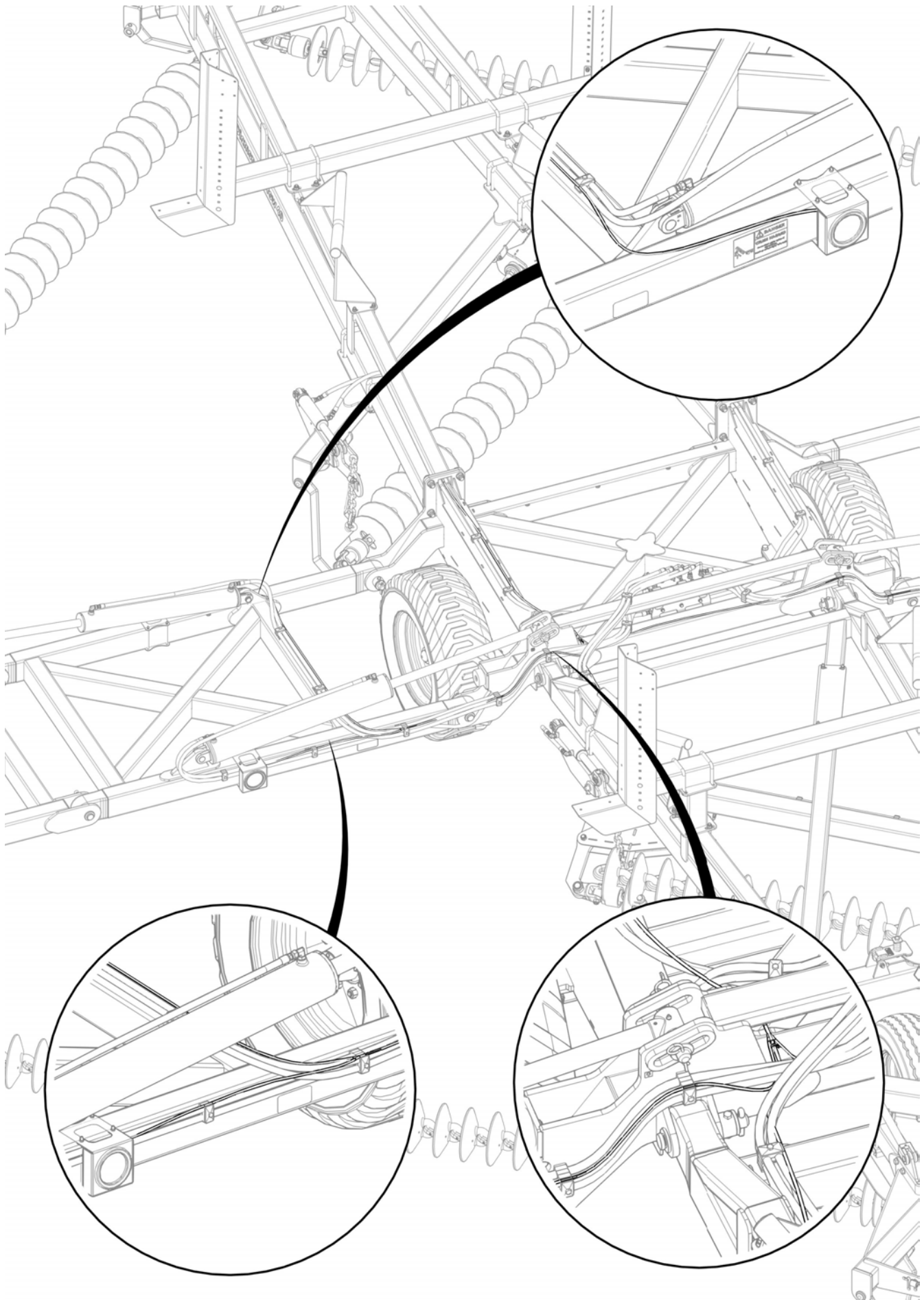
Item No.	Description	Number	Qty
1	110RM Rubber Grommet	0412-53101RG	2
2	LED Rear Indicator Lamp	0412-LED110AM	2

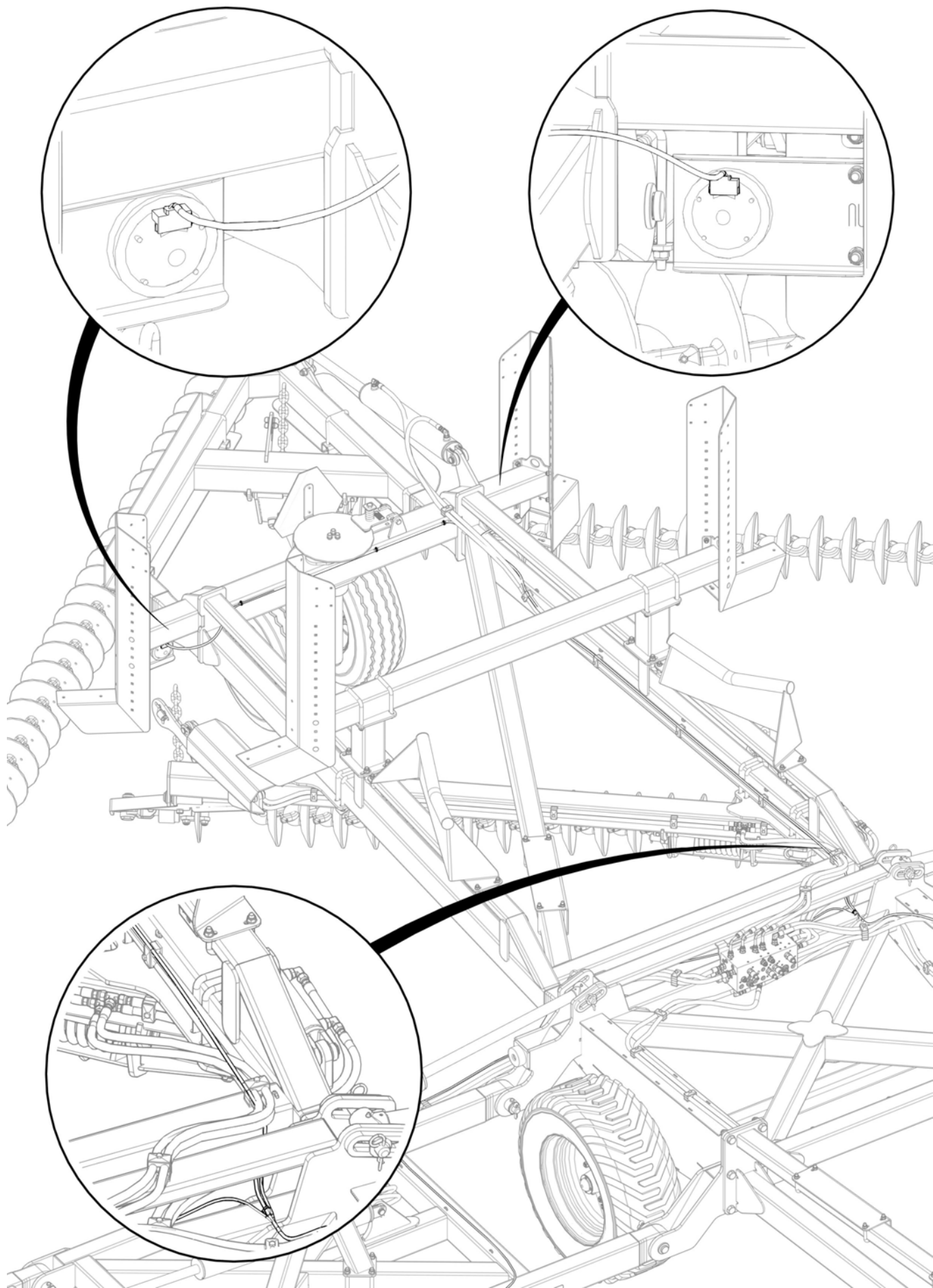


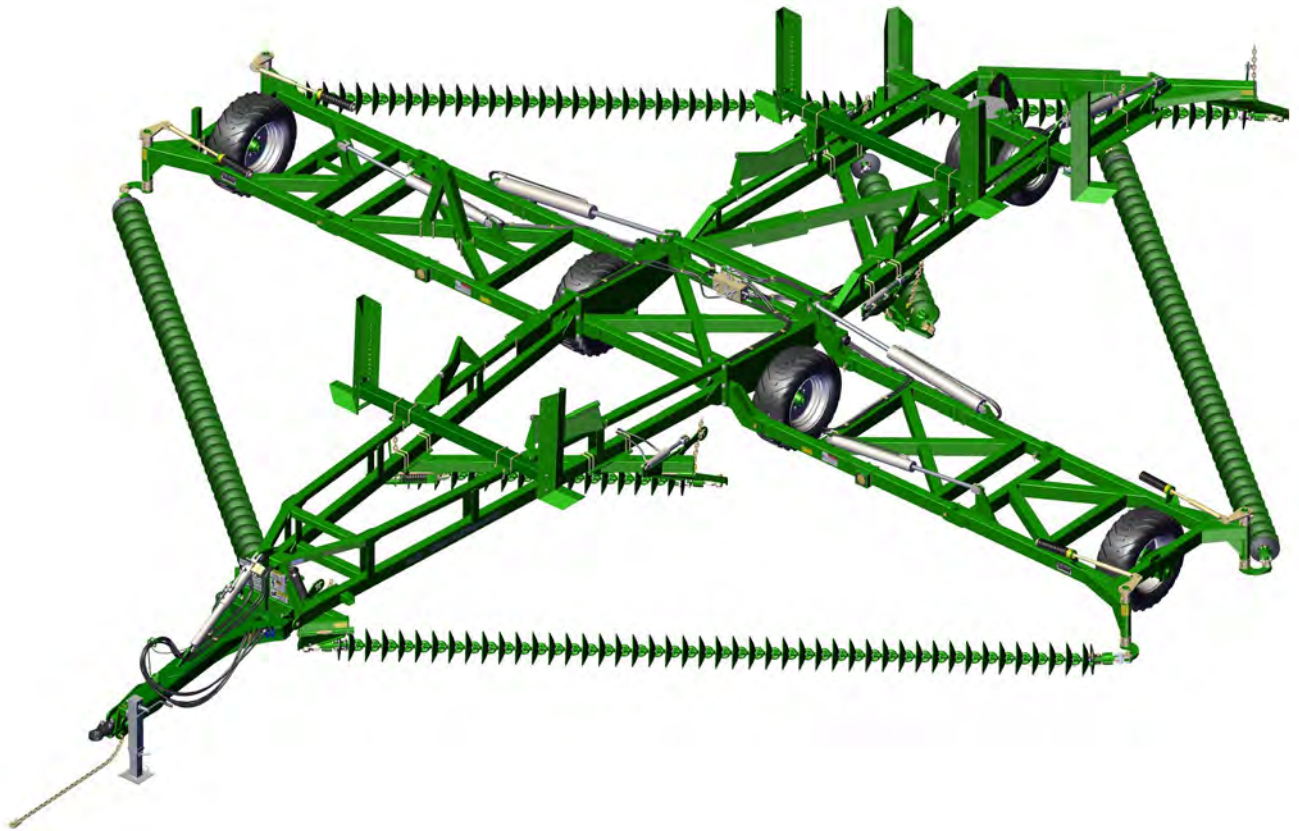






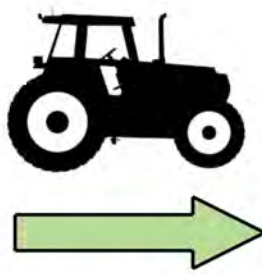
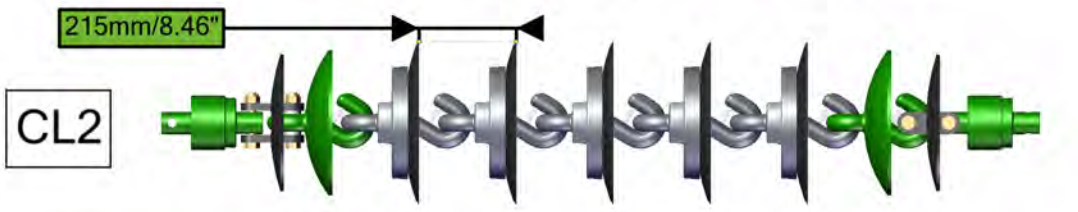




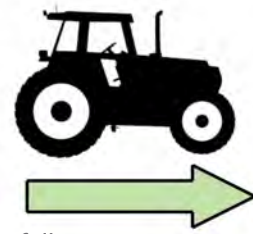


Section 3

Chain Assembly

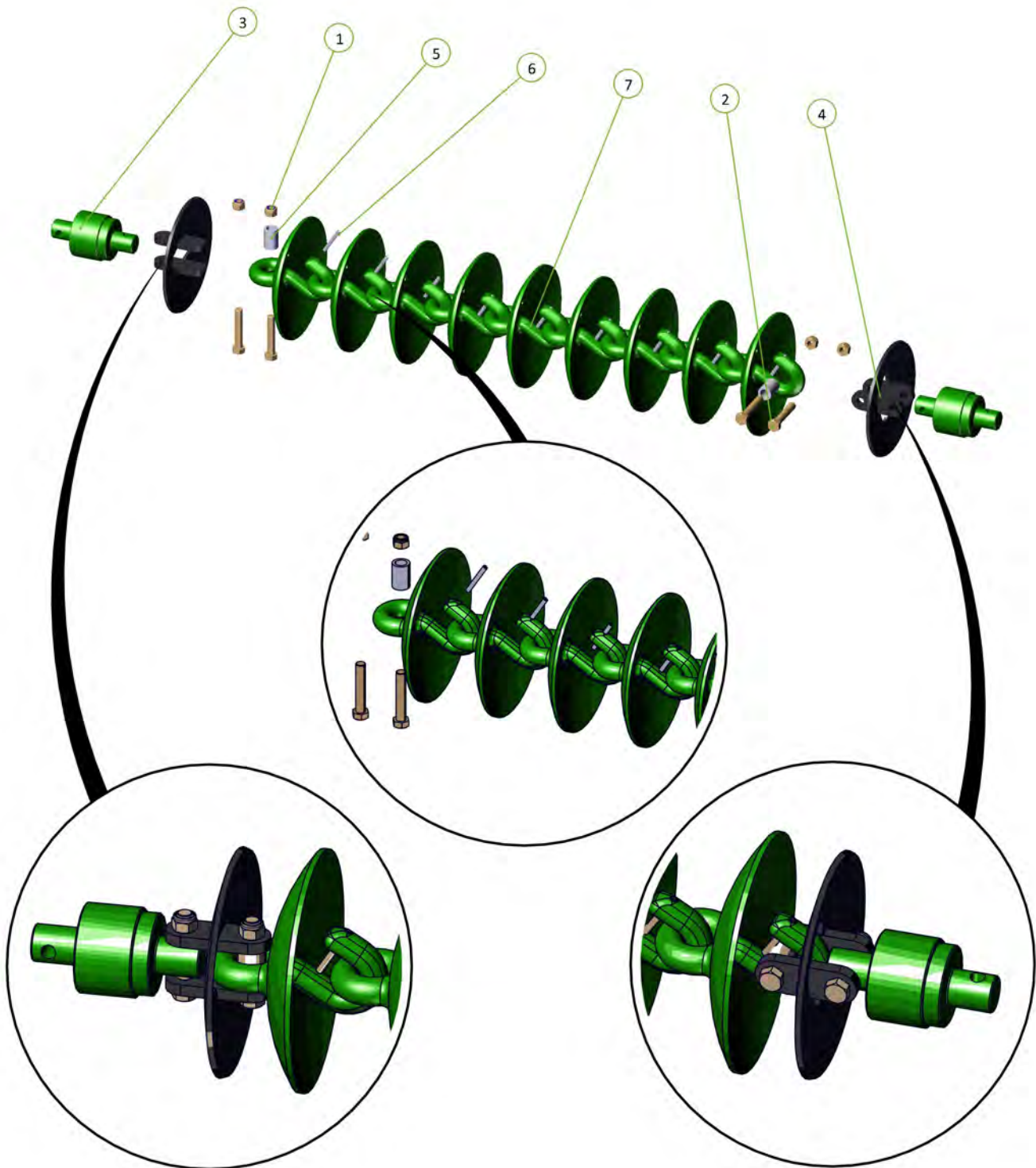


Item No.	Description	Number	Qty
1	Nyloc Nut M20/24	0221-NYL20/24	4
2	M20 x 110 / M24 x 120 grade 10.9 ZP Short Thread Bolt	0211-20110ST/0211-24120ST	4
3	20/24mm Bolt Swivel Unit	0802-PCHB55 / 0802-PCHB553	2
4	Disc Chain Tie Plate Link 20mm / 24mm	0802-DCTP-20 / 0802-DCTP-24	2
5	Tie Plate Bush	0801-PCDCS55	2
6	Roll Pin Zinc Plated 3/8" x 3"	0262-3-8X3	1
7	CL1-B Chain Disc Link	0803-CL1	1



For correct chain tension, chain links may need to be removed from the end of the chain as follows:

CL1 Disc Chain - unhook disc chain link/s from end of the disc chain

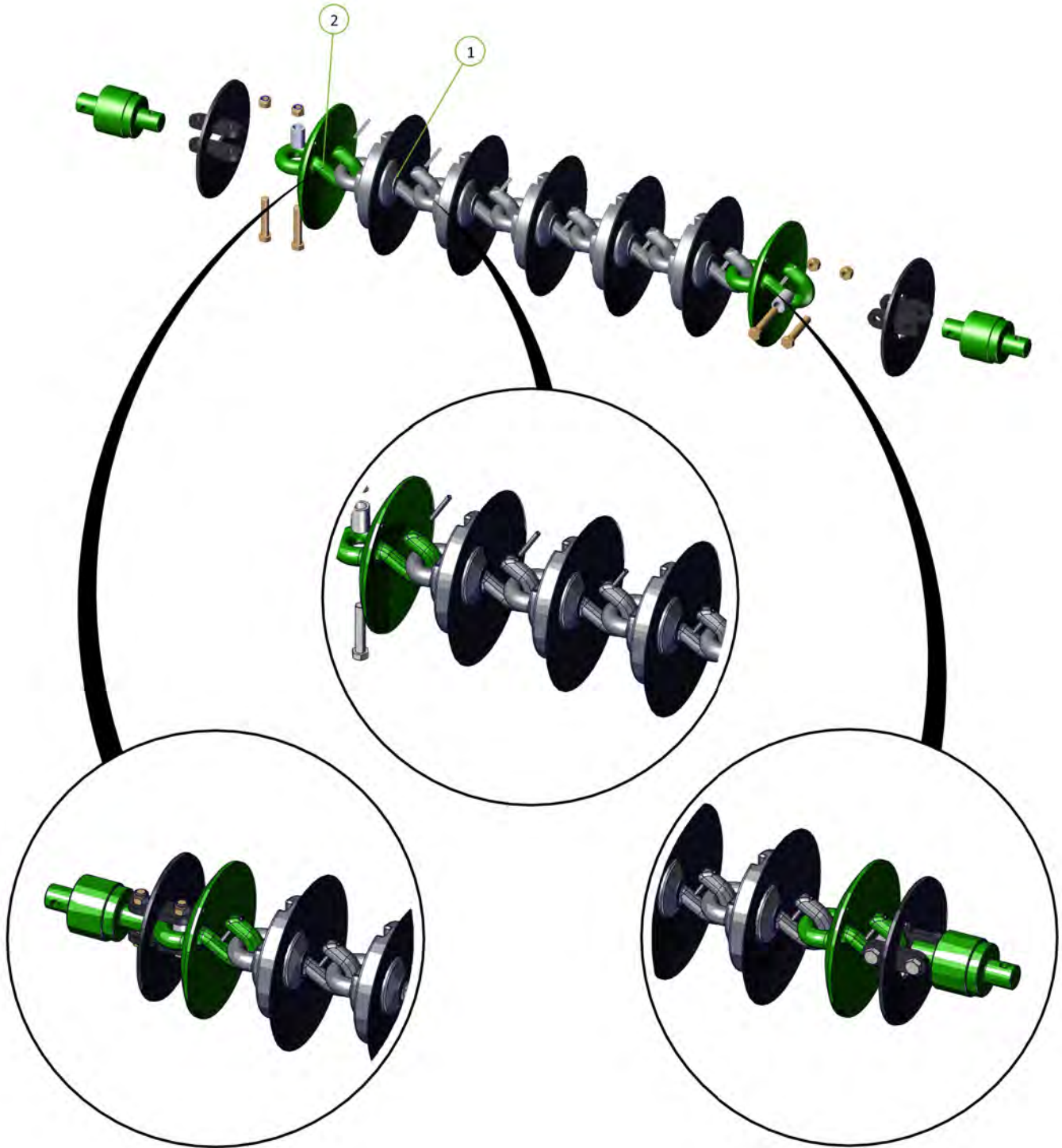


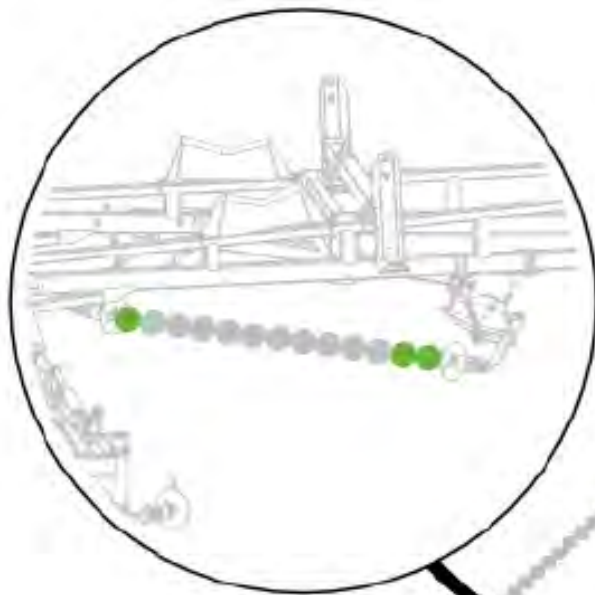
Item No.	Description	Number	Qty
1	0803-CL2-Link Assembly	0803-CL2	1
2	CL1-B Chain Disc Link	0803-CL1	1



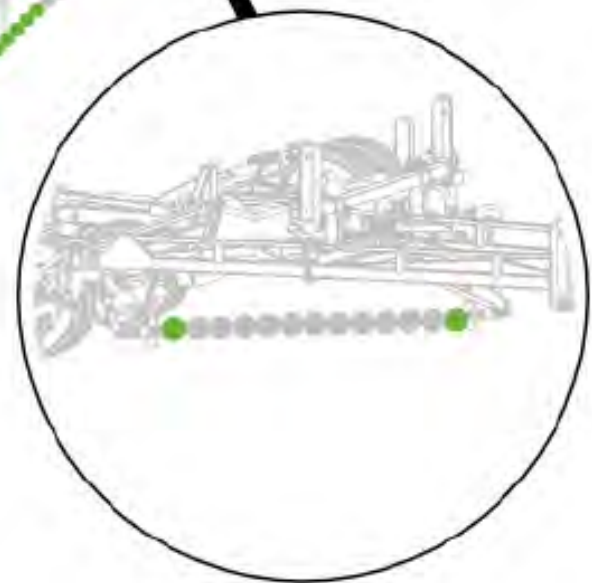
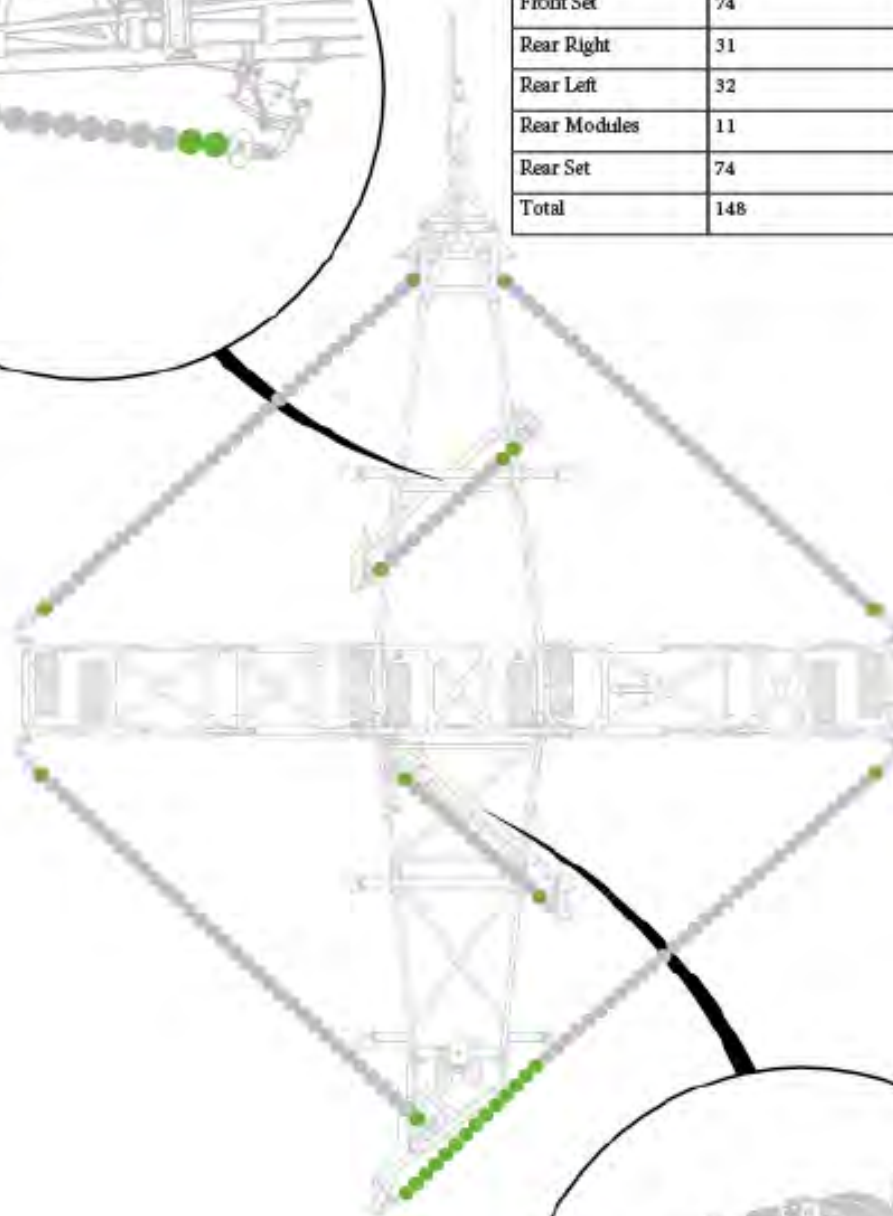
For correct chain tension, chain links may need to be removed from the end of the chain as follows:

CL2 Disc Chain - unhook disc chain link/s from end of the disc chain





Set	CL2	CL1
Front Left	32	2
Front Right	32	2
Front Modules	10	3
Front Set	74	7
Rear Right	31	15
Rear Left	32	2
Rear Modules	11	2
Rear Set	74	19
Total	148	26

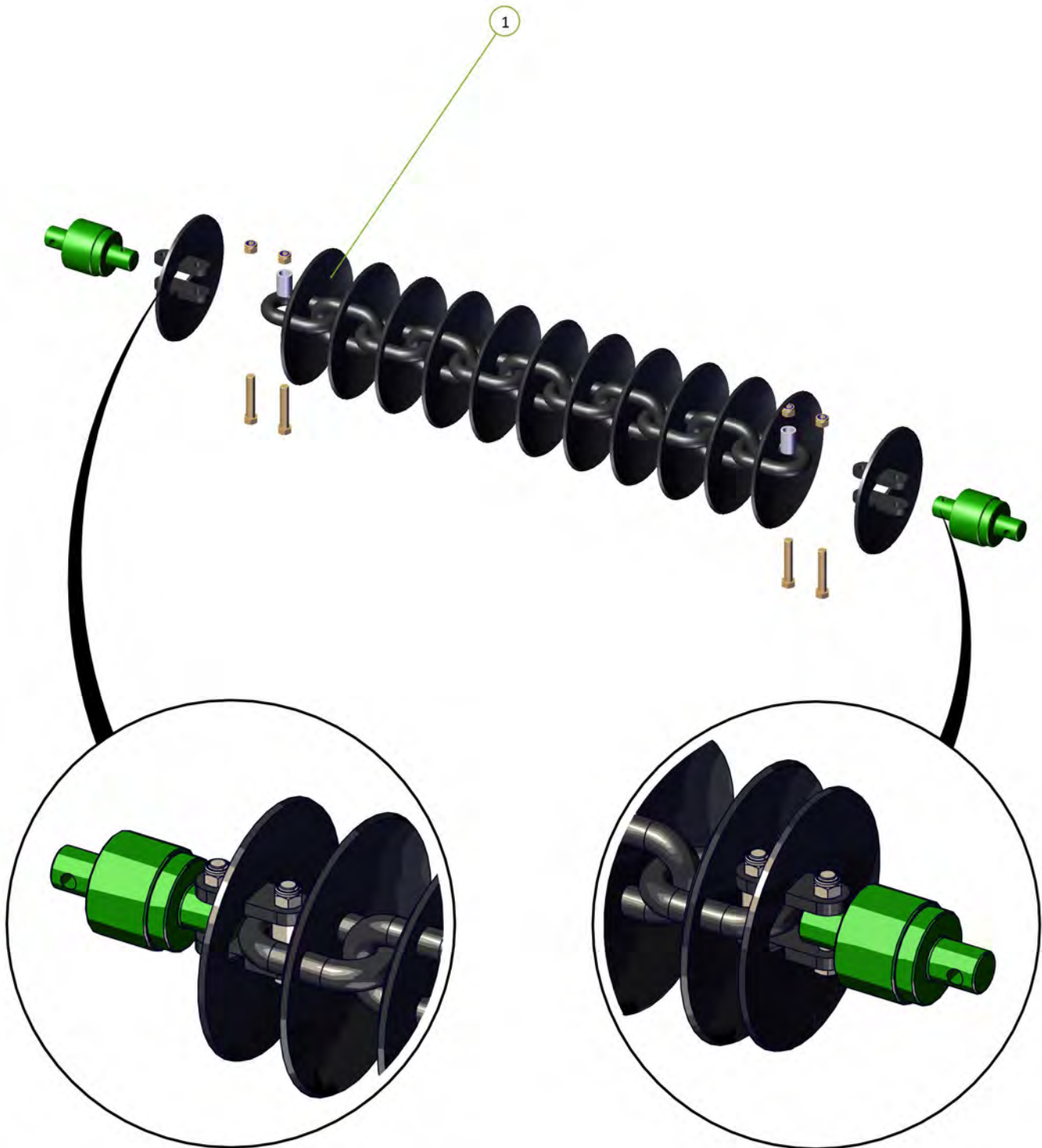


Item No.	Description	Number	Qty
1	R300 Chain Link	0803-R300	1



For correct chain tension, chain links may need to be removed from the end of the chain as follows:

R300 Disc Chain - cut a disc chain link from the end of the disc chain

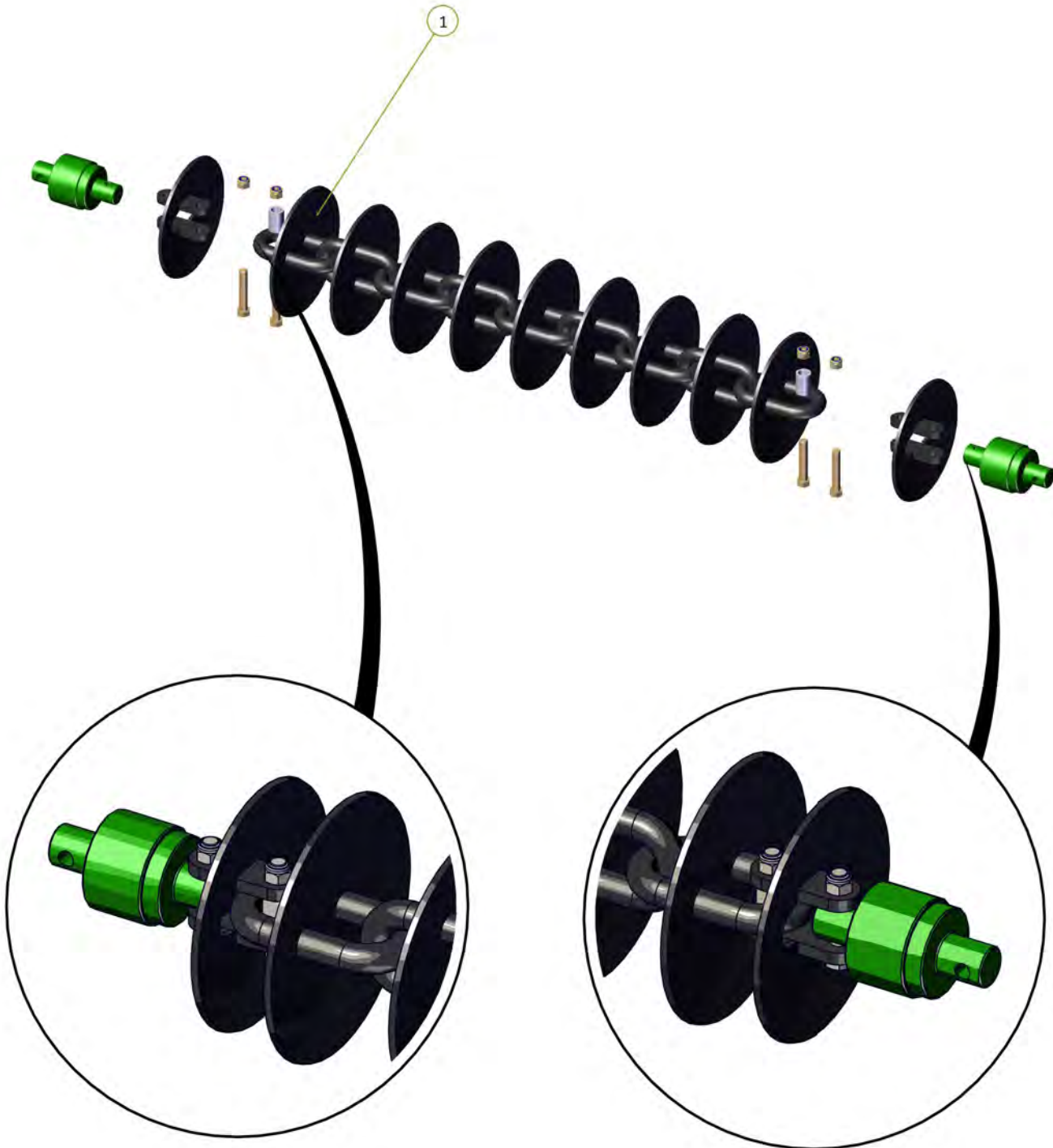


Item No.	Description	Number	Qty
1	W36/25 Chain Link	0803-W36	1



For correct chain tension, chain links may need to be removed from the end of the chain as follows:

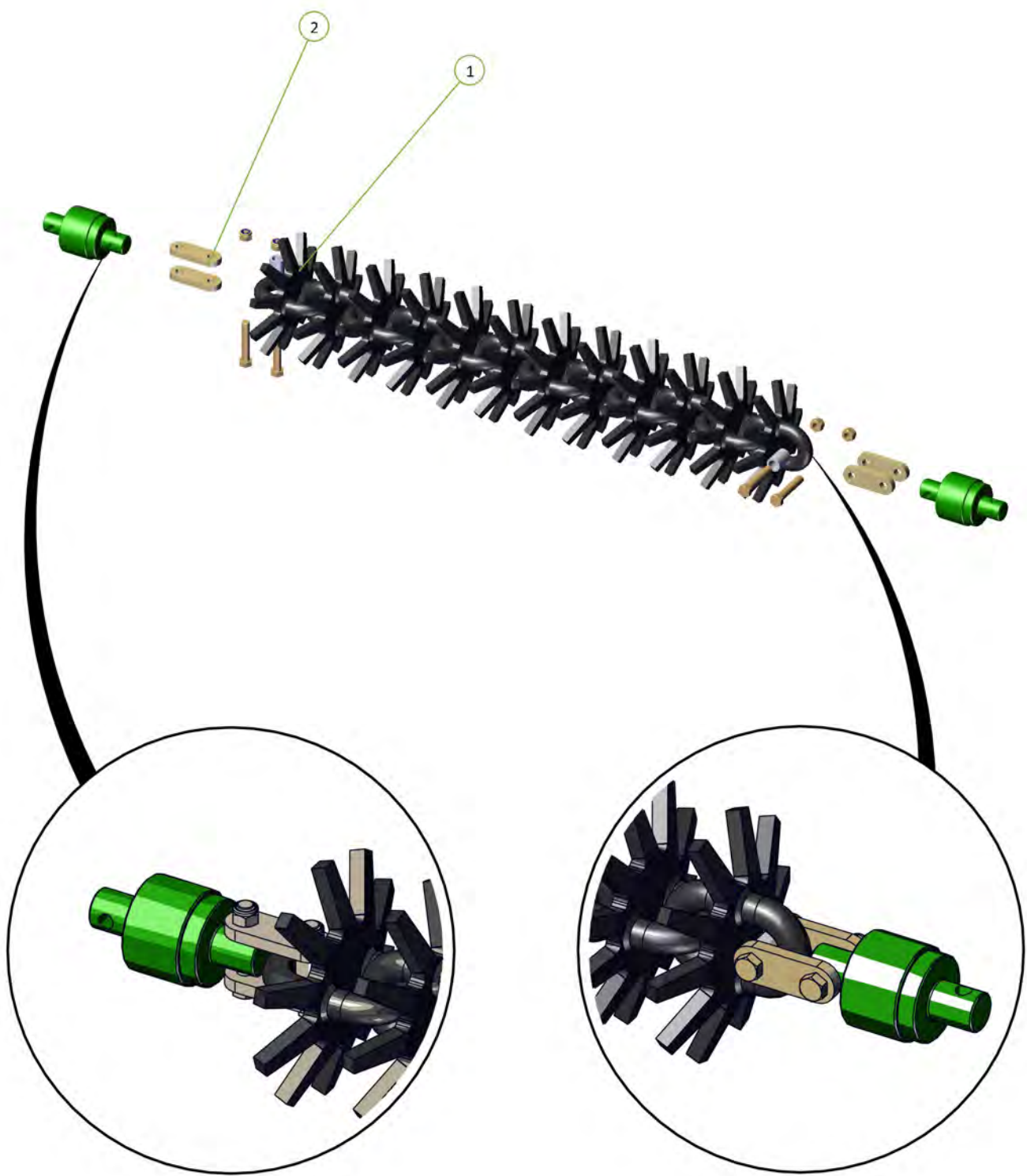
W36 Disc Chain - cut a disc chain link from the end of the disc chain



Item No.	Description	Number	Qty
1	10 Spike Disc Chain 49/27/5	0803-SD49	1
2	Tie Plate For 20mm Bolt/ Tie Plate For 24mm Bolt	0800-83.2 / 0800-83.3	4



For correct chain tension, chain links may need to be removed from the end of the chain as follows:
 Spiked Disc Chain - cut a disc chain link from the end of the disc chain

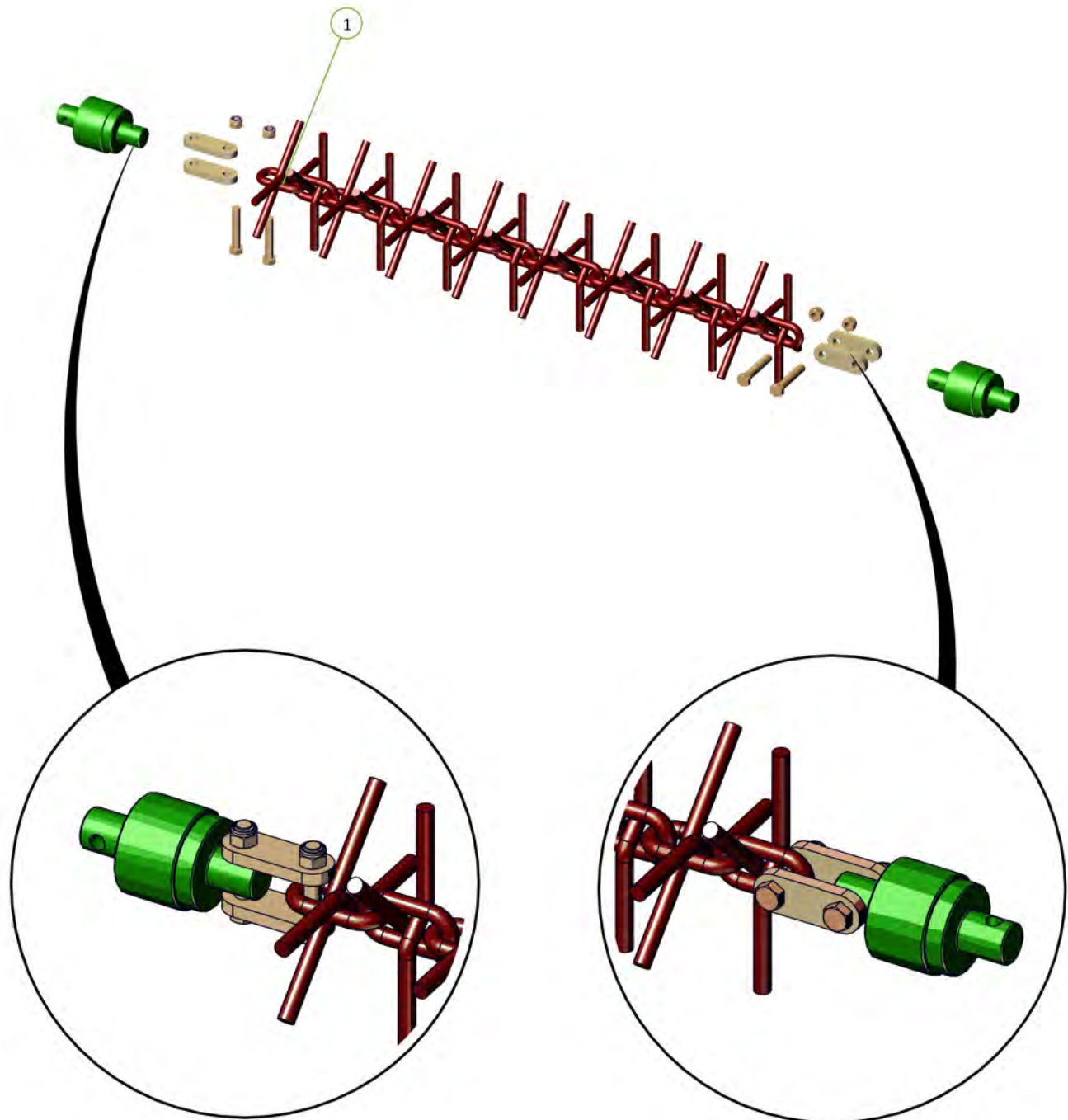


Item No.	Description	Number	Qty
1	Prickle Chain Link	0803-PCH	1



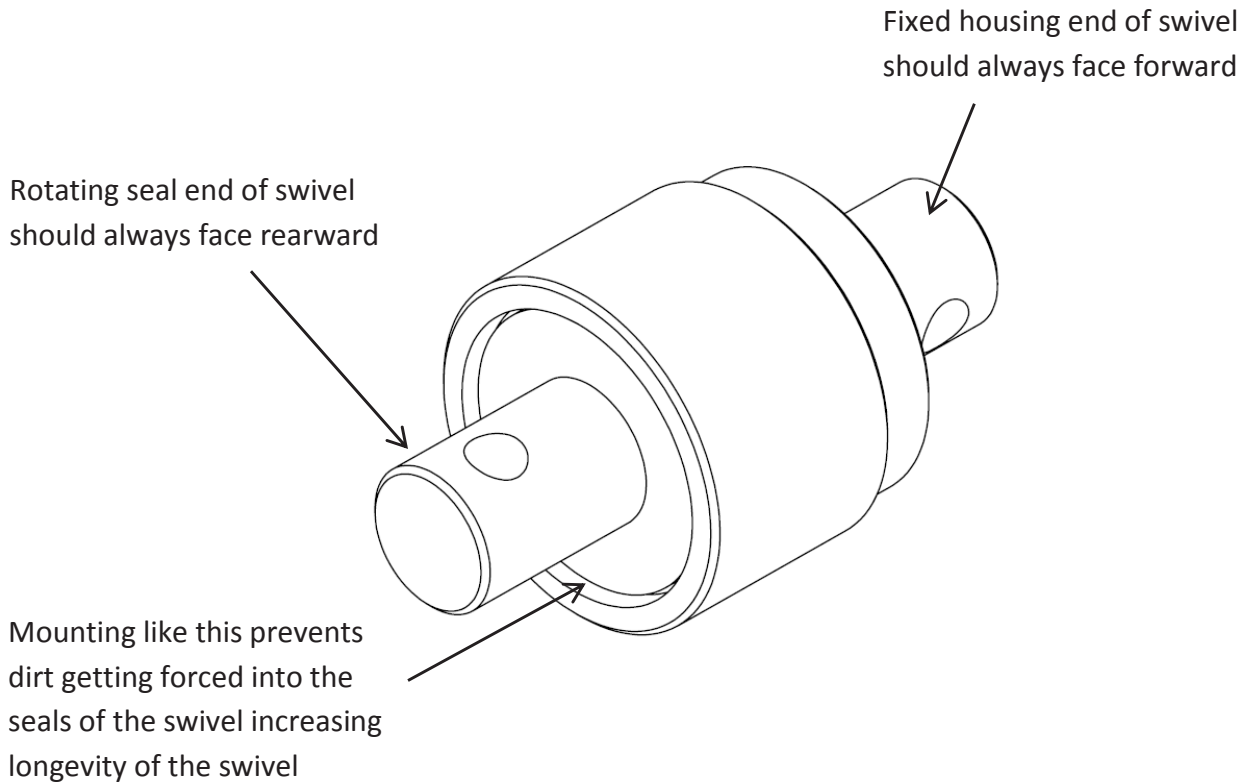
For correct chain tension, chain links may need to be removed from the end of the chain as follows:

Prickle Chain - cut a prickle chain link from the end of the prickle chain



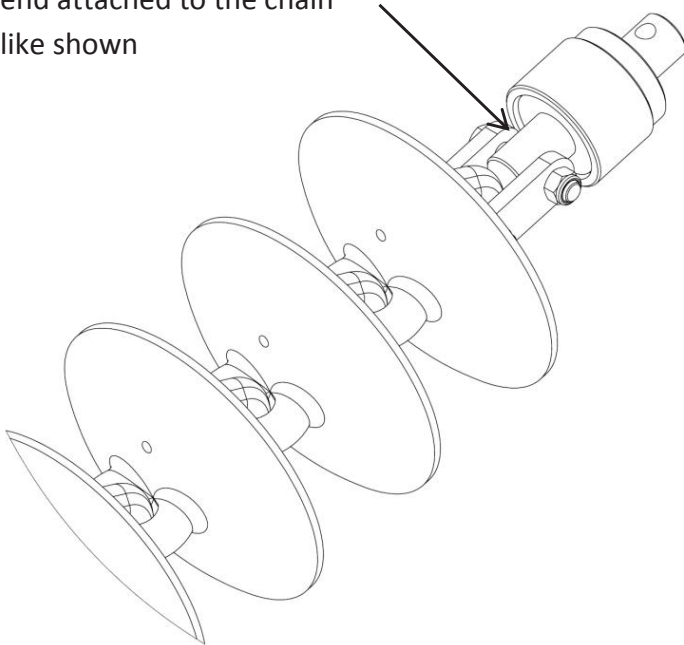
Section 4

Diagrams & Specifications

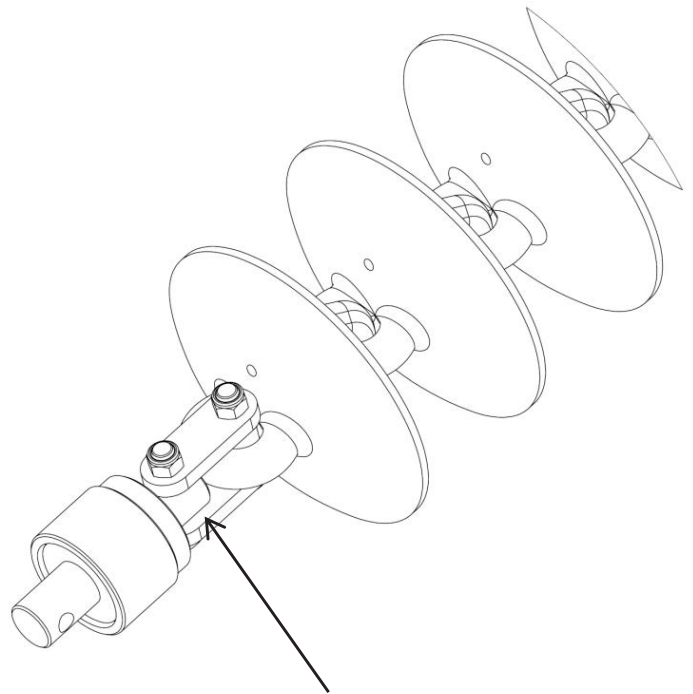


For Example

Swivels attached to the leading ends of the chains should have the rotating seal end attached to the chain like shown



Swivels attached to the trailing ends of the chains should have the fixed housing end attached to the chain like shown



Operating speeds

Operating speeds for normal conditions	
Chain type	Speed
Prickle Chain	6-10 Mph / 10-16 kmph
Disc Chain	6-8 Mph / 10-12 kmph
Transport / towing on roads	15 Mph / 25 kmph

Chain Harrow specifications

Model	4012
Working width	40'10.15" / 12.45m
Transport width	11'5.8" / 3.50m
Transport height	12'6.20" / 3.80m
Transport length	45'5.22" / 13.85m

Bolt Torque Settings

Bolt Type	Wheel nut				U Bolt			Grade 8.8 Bolt					Grade 10.9 Bolt	
	M18	M20	1/2"	9/16"	M10	M12	M16	M10	M12	M16	M20	M24	M20	M24
Ft lb	255	265	90	100	22	36	55	32	48	140	190	270	300	350
Nm	345	360	125	140	30	50	75	44	65	190	260	370	406	475

[1] When fitting a wheel & tire to a hub, tighten the wheel nuts in rotation to the correct tension. To achieve this choose a wheel nut & tighten, then proceed clockwise to the next wheel nut & tighten & so on until all wheel nuts are tight. Then repeat the procedure to check that all nuts are tight. Do not use impact tools to tighten wheel nuts. For a guide to the correct tension of the wheel nuts please use the appropriate tension for your size wheel nuts from the Bolt Torque Settings table.

Torque values are for dry threads and surfaces however it is permissible to apply a small amount of anti corrosive oil to the threads.

Model		Length	CL2	CL1	W36	R300	SD49	Prickle chain
			CL2 disc chain also requires CL1 disc chain					
4012	Front right	7.31m	CL2 - 32 CL1 - 2	45	43	58	58	81
	Front left	7.31m	CL2 - 32 CL1 - 2	45	43	58	58	81
	Rear right	9.21m	CL2 - 31 CL1 - 15	56	54	74	74	102
	Rear left	7.14m	CL2 - 32 CL1 - 2	44	42	57	57	79
	Front module	2.63m	CL2 - 10 CL1 - 3	16	15	21	21	29
	Rear module	2.64m	CL2 - 11 CL1 - 2	16	15	21	21	29

For correct chain tension, chain links may need to be removed from the end of the chain as follows:

- CL2 Disc Chain - unhook disc chain link/s from end of the disc chain
- CL1 Disc Chain - unhook disc chain link/s from end of the disc chain
- K4 Disc Chain - unhook disc chain link/s from end of the disc chain
- Spiked Disc Chain - cut a disc chain link from the end of the disc chain
- R300 Disc Chain - cut a disc chain link from the end of the disc chain
- W36 Disc Chain - cut a disc chain link from the end of the disc chain
- Prickle Chain - cut a prickle chain link from the end of the prickle chain



Section 5

Pre-Delivery Checklist

Name _____ Date _____ Location _____

Check Item:	Checked by Initial
Tyres are fitted correctly	
Check wheel nuts are tightened to the correct torque and marked	
Check tyres are inflated to correct pressure	
Tow Hitch is fitted correctly with bolts tightened to correct torque and marked.	
All bolts and nuts are tightened to the correct torque values and marked.	
All retaining pins are inserted and engaged	
All hoses are correctly routed through holders	
Air brake hoses are sound with no leaks	
Air brake relay valve is correctly set for the load	
Hydraulic rams and hoses are sound	
Hydraulic Accumulator is charged correctly.(6M only)	
Drop legs are correctly orientated. (6M only)	
Swivel Units are correctly orientated	
Chains are resting correctly on their transport supports (chain carriers)	
Check the chain tension as per assembly manual	
All points are greased on the machine	
Roll pins are installed in the discs (CL1 and CL2)	
All safety decals are on the machine in the correct locations are per the Assembly/ Operators manual	
All safety signs are present & lights working	
Machine is registered for Warranty	
Customer has been shown the website and how to access parts information	
Operators manual has been provided with the machine	

Signature _____

