

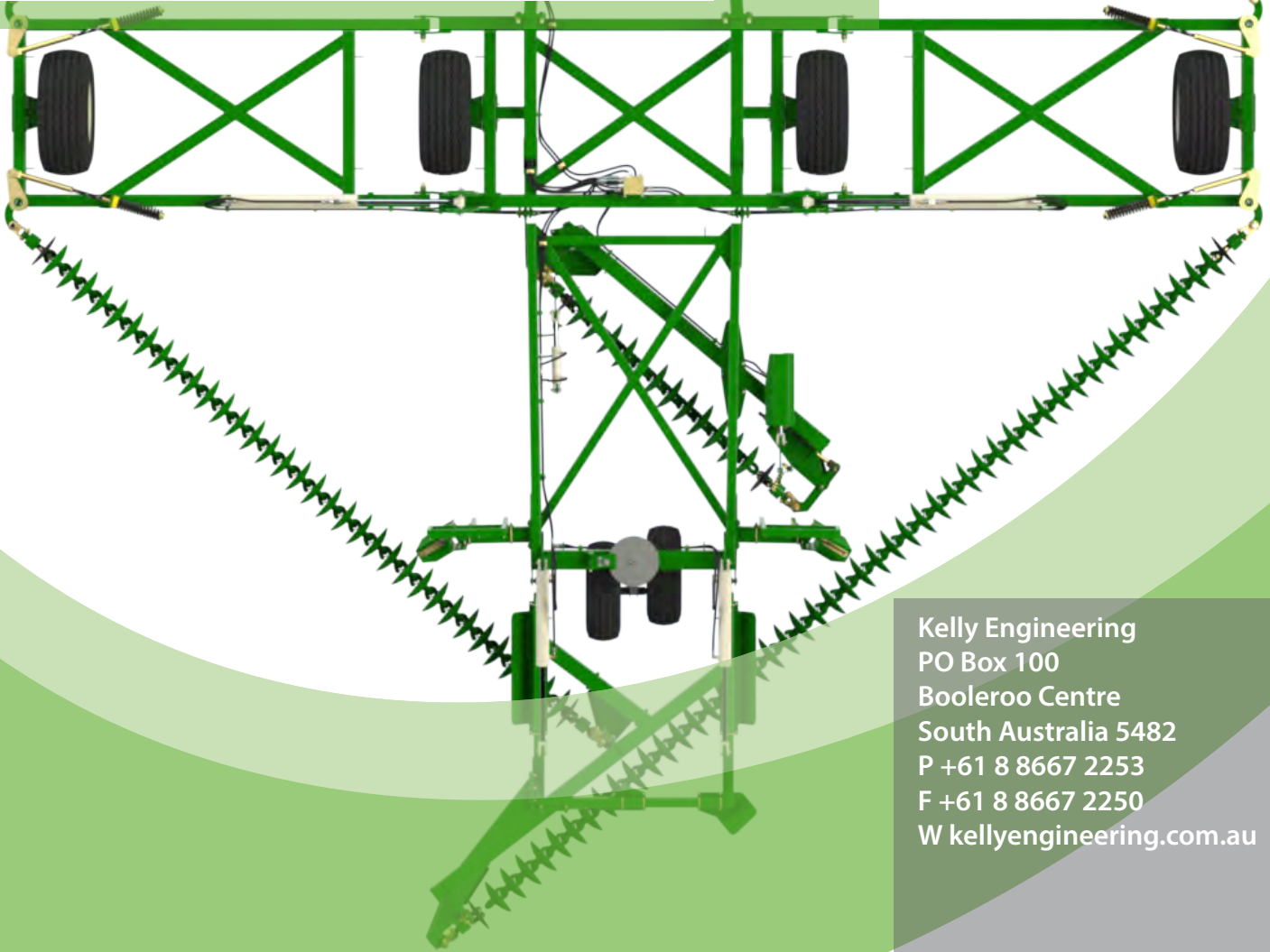
30



Tillage System Model 30 Assembly and Parts Manual

Revision L - January 2020

Serial Number:



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Thank you for choosing a Kelly Engineering 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 Engineering Australia or in the United States, Hood & Company.

Kelly Engineering 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.

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Website: www.kellytillage.eu

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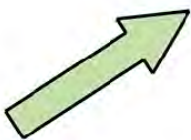
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This symbol indicates which bag the relevant fastners are in



This symbol indicates which bag the relevant hydraulics are in



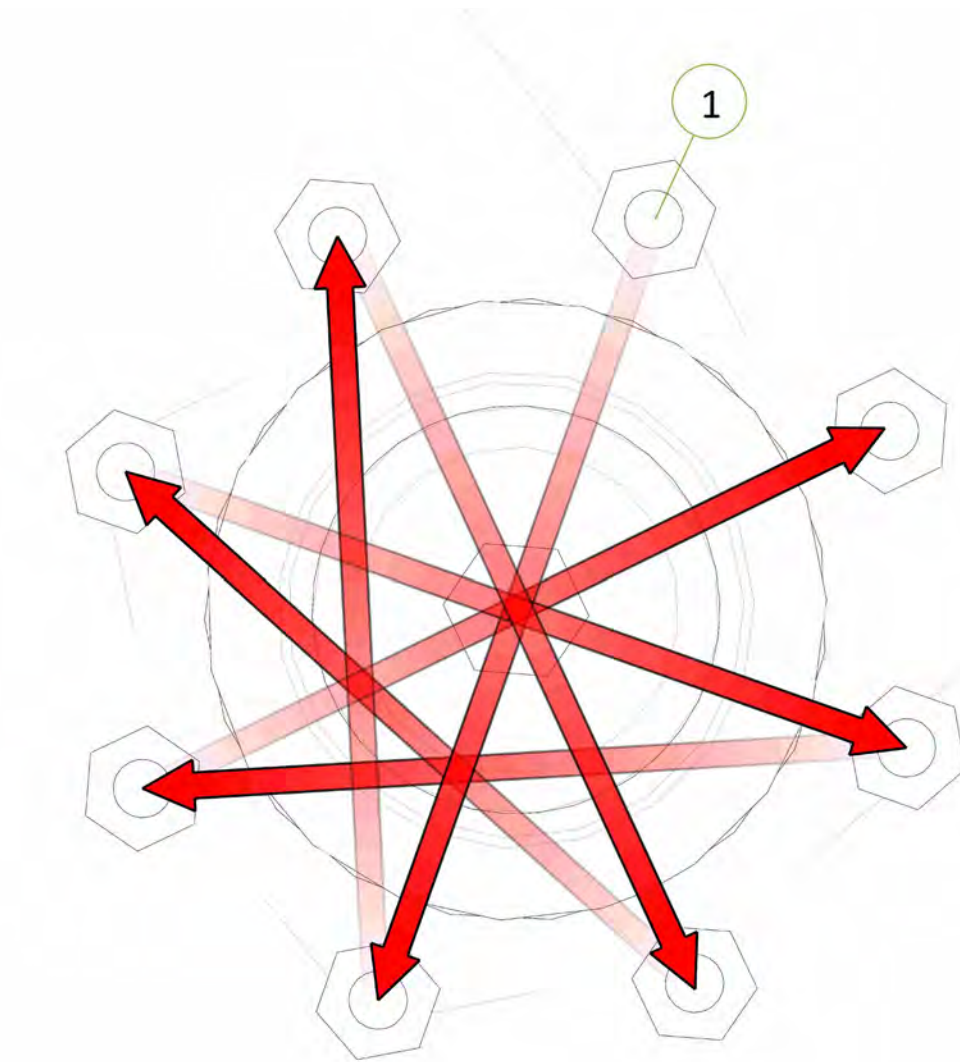
This symbol indicates which way the machine is travelling

Bolt Torque Settings

| Bolt Type | Wheel nut | | | | U Bolt | | | Grade 8.8 Bolt | | | | | Grade 10.9 Bolt | | Grade 8 Bolt |
|------------------|-----------|-----|------|-------|--------|-----|-----|----------------|-----|-----|-----|-----|-----------------|-----|--------------|
| Bolt Size | M18 | M20 | 1/2" | 9/16" | M10 | M12 | M16 | M10 | M12 | M16 | M20 | M24 | M20 | M24 | 1" UNF |
| Ft lb | 255 | 265 | 90 | 100 | 22 | 36 | 55 | 32 | 48 | 140 | 190 | 270 | 300 | 350 | 849 |
| Nm | 345 | 360 | 125 | 140 | 30 | 50 | 75 | 44 | 65 | 190 | 260 | 370 | 406 | 475 | 1151 |

[1] When fitting a wheel & tire to a hub, tighten the wheel nuts in a star pattern to the correct tension. To achieve this choose a wheel nut & tighten, then proceed to the opposite side of the hub 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.



Section 1

Unpacking

Unpacking

We recommend the use of suitable lifting equipment for unloading and assembly



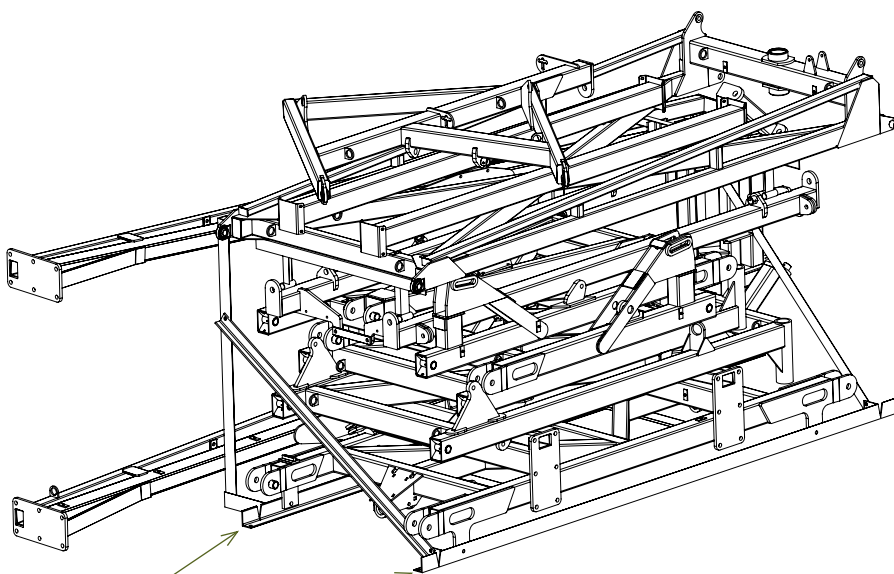
- Before unloading any loads please inspect exterior for damage



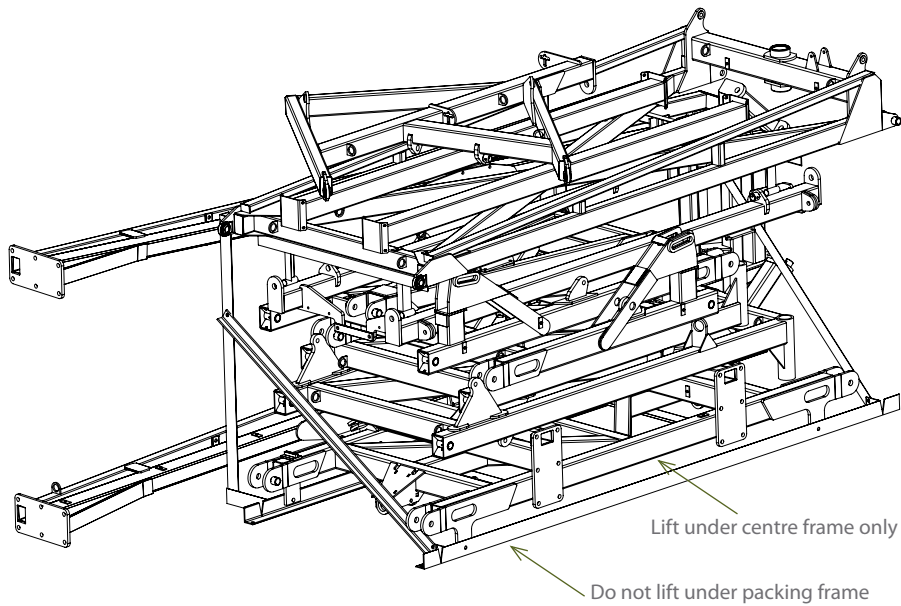
CAUTION

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 2600 lbs (1200kg)
- 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).



Connect chains to these points



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

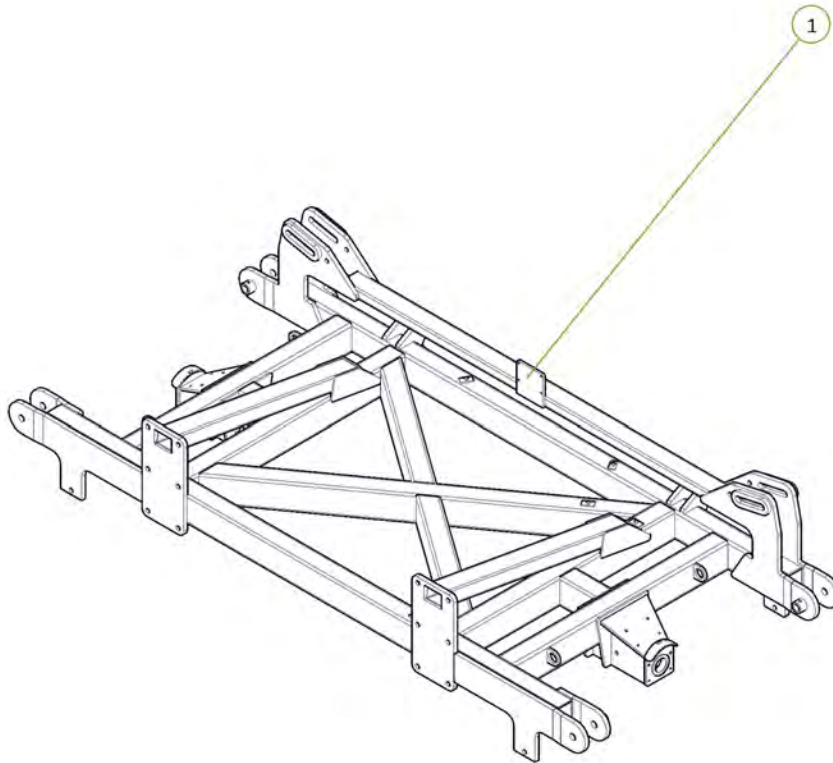
To avoid falling or moving components, before cutting straps attach slings or chains to individual pieces and only cut the straps holding the piece to be lifted.

- Remove boxes from rear of container one at a time using a forklift truck. Each box weighs approximately 2600 lbs (1200 kg)
- Cut straps holding bundles and separate parts and place in assembly area
- Once all parts have been identified machines are 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.

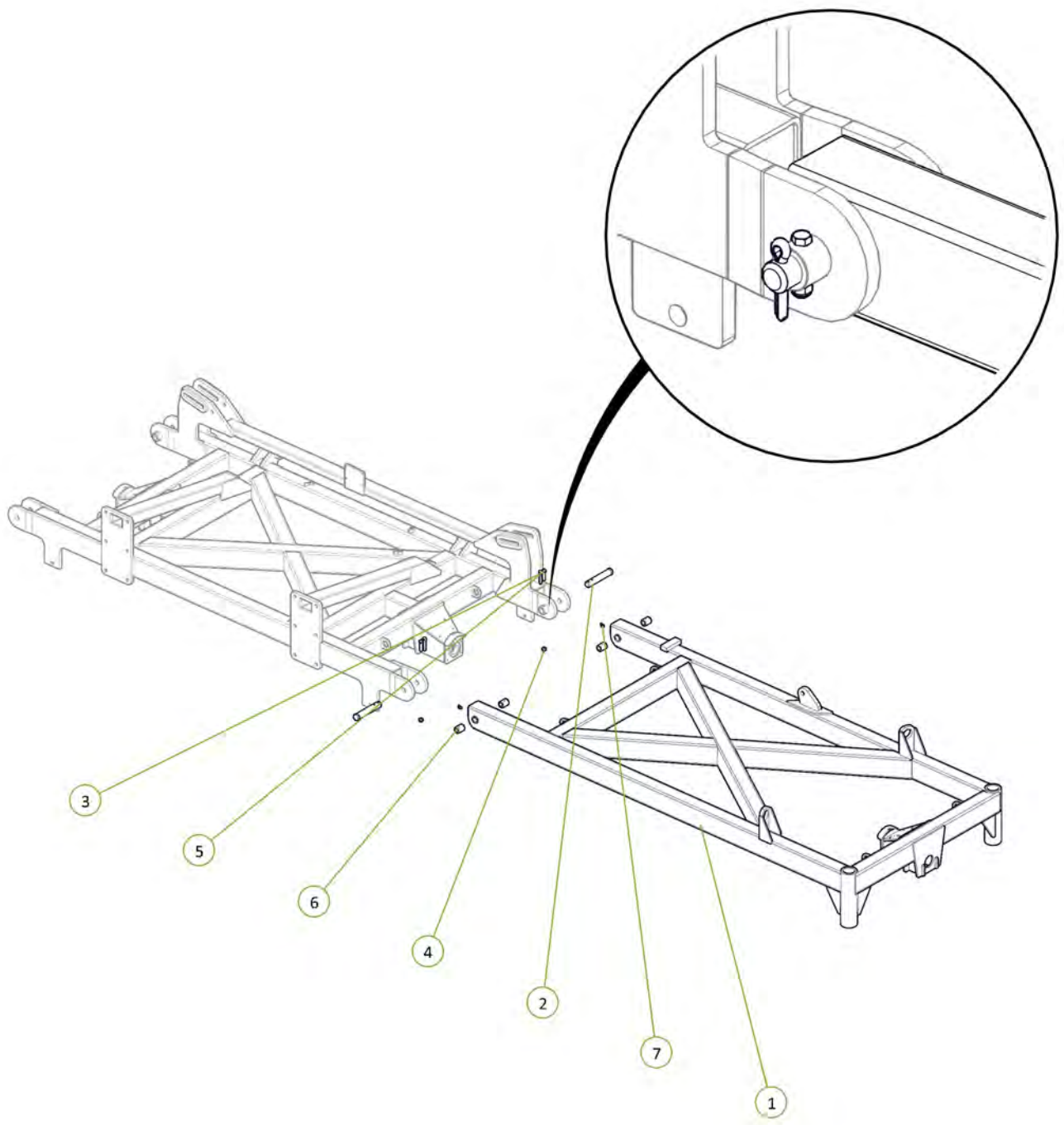
Section 2

Parts

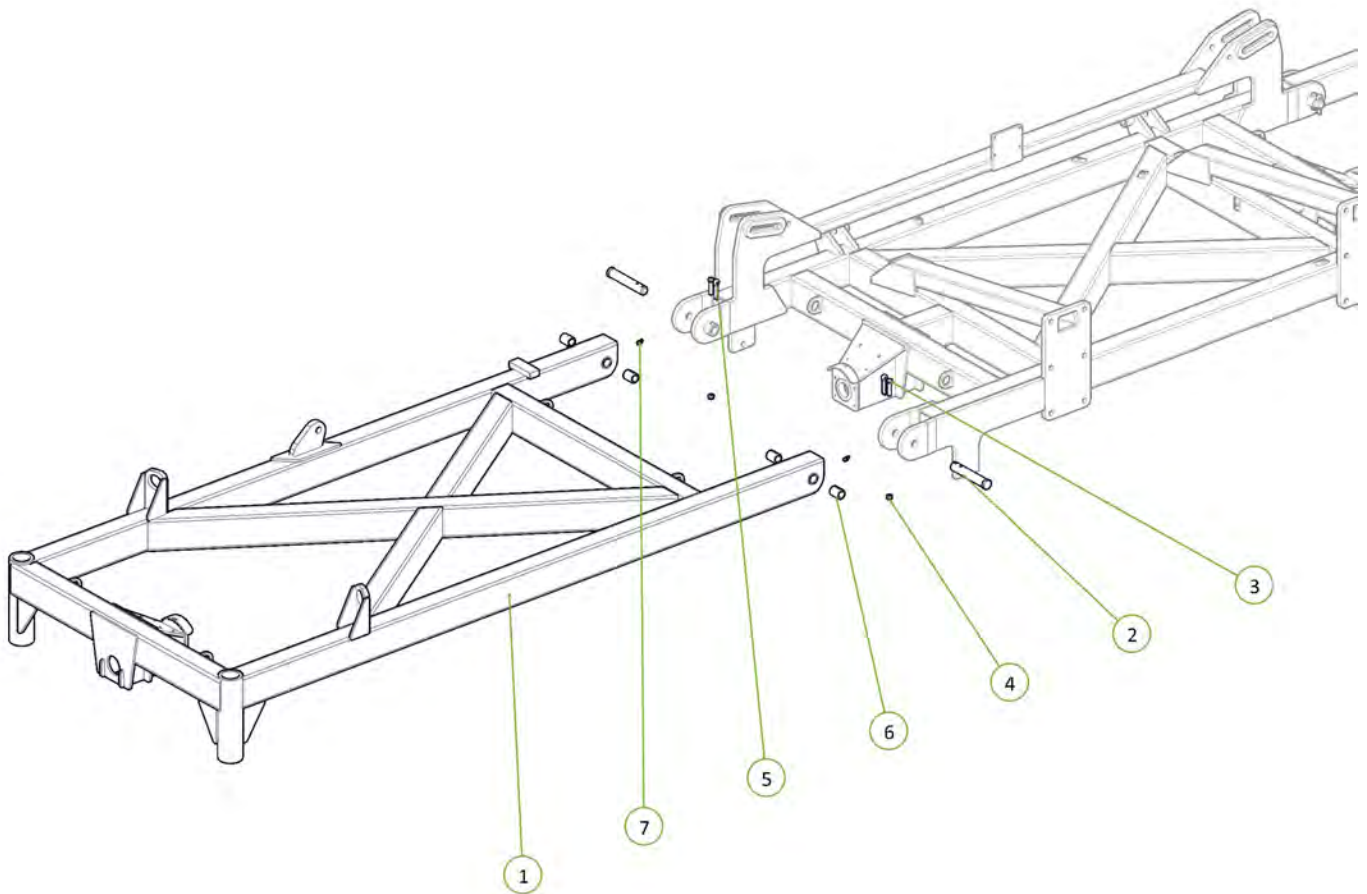
| Item No. | Description | Number | Qty |
|----------|------------------|---------|-----|
| 1 | 30' Centre Frame | 0830-01 | 1 |



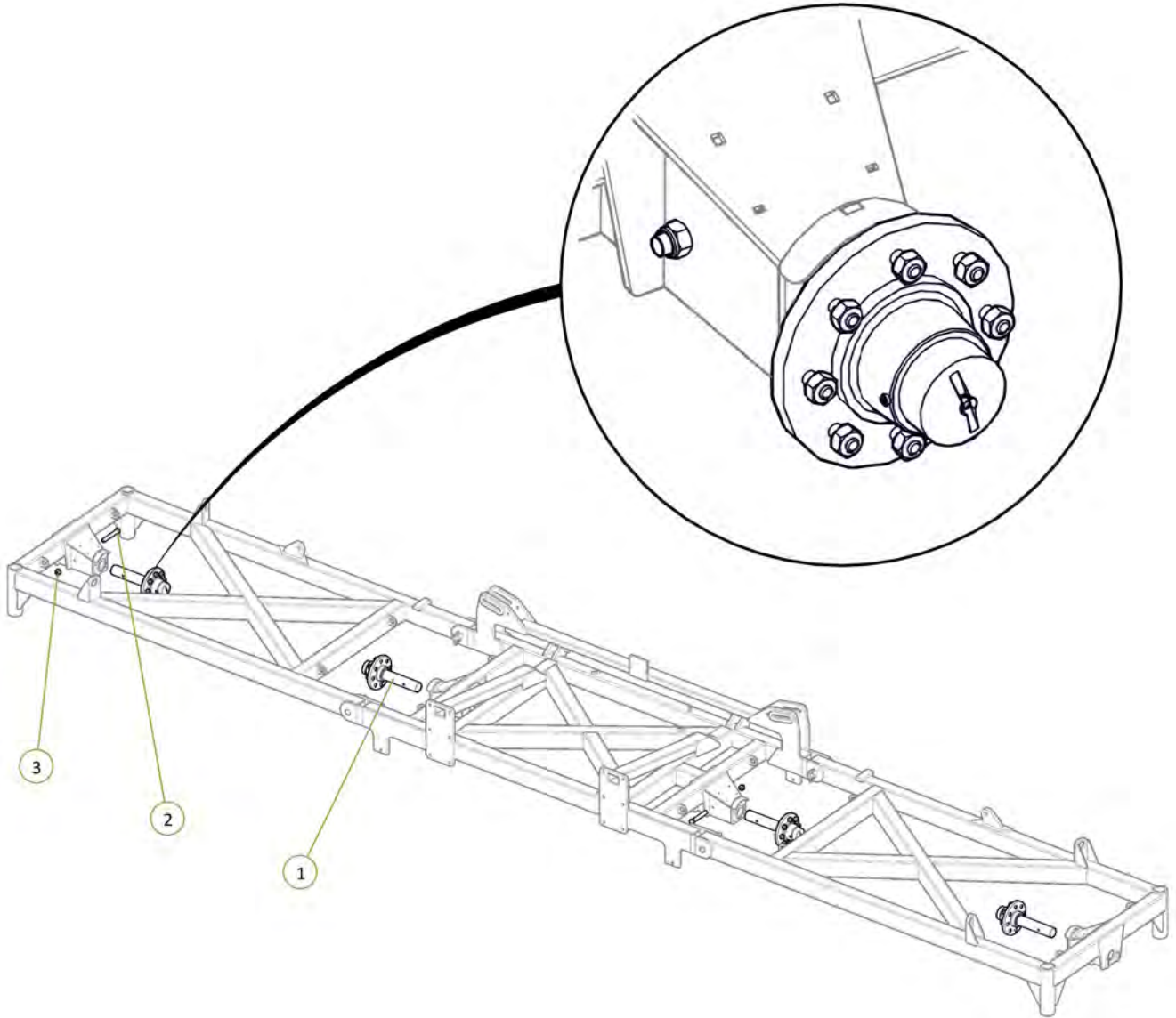
| Item No. | Description | Number | Qty |
|----------|-------------------------------|----------------|-----|
| 1 | 30' Left Hand Wing | 0830-07 | 1 |
| 2 | PCH Wing Pivot Pin | 0801-10-08-235 | 2 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 2 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 2 |
| 5 | Cotter Pin M13 x 63 | 0261-PINC1363 | 2 |
| 6 | 35 ID x 50mm DX Bush | 0113-MB 3550DX | 4 |
| 7 | Grease Nipple 1/8" BSP 45 Deg | 0181-GN1-845 | 2 |



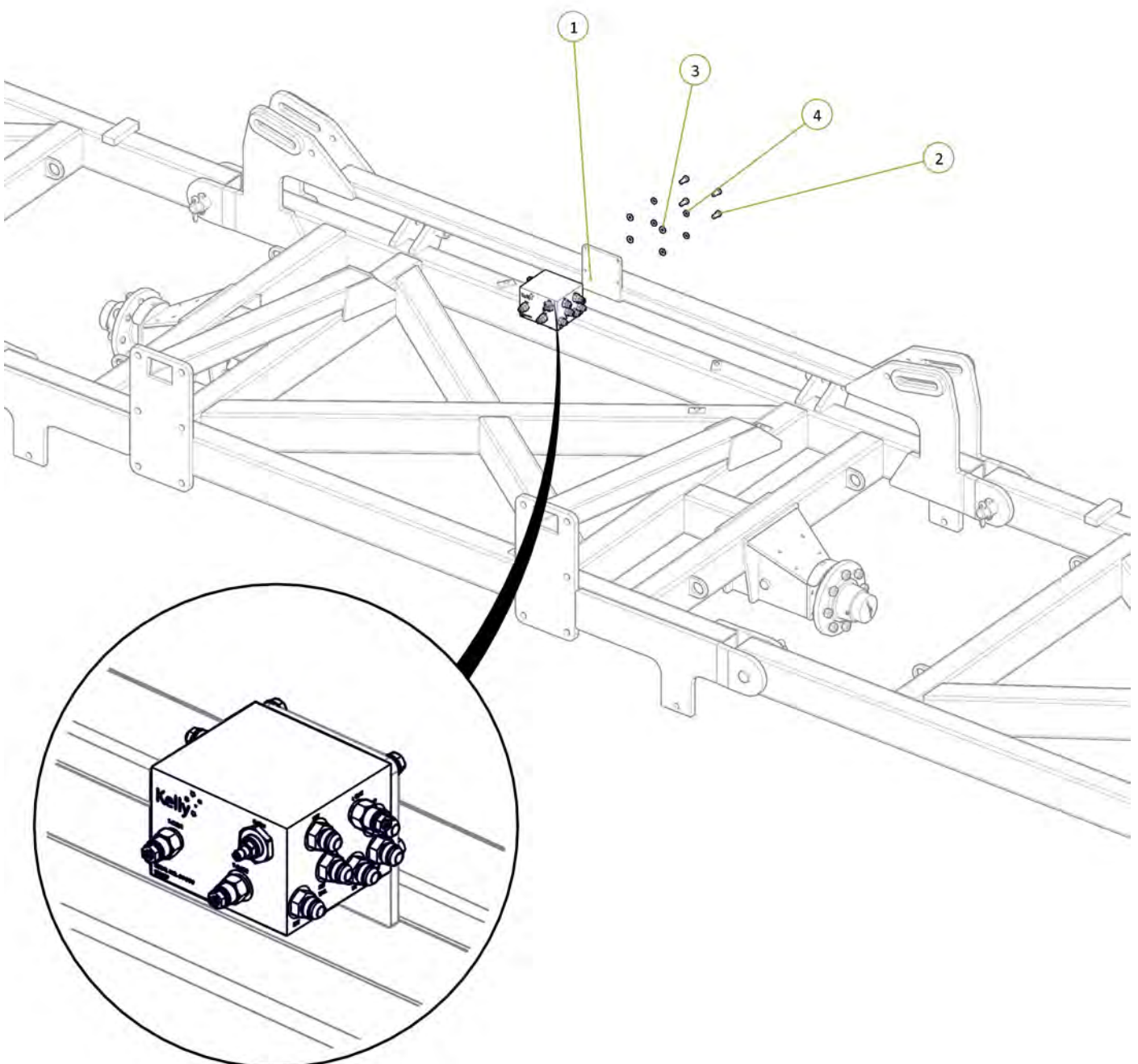
| Item No. | Description | Number | Qty |
|----------|-------------------------------|----------------|-----|
| 1 | 30' Right Hand Wing | 0830-06 | 1 |
| 2 | PCH Wing Pivot Pin | 0801-10-08-235 | 2 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 2 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 2 |
| 5 | Cotter Pin M13 x 63 | 0261-PINC1363 | 2 |
| 6 | 35 ID x 50mm DX Bush | 0113-MB 3550DX | 4 |
| 7 | Grease Nipple 1/8" BSP 45 Deg | 0181-GN1-845 | 2 |



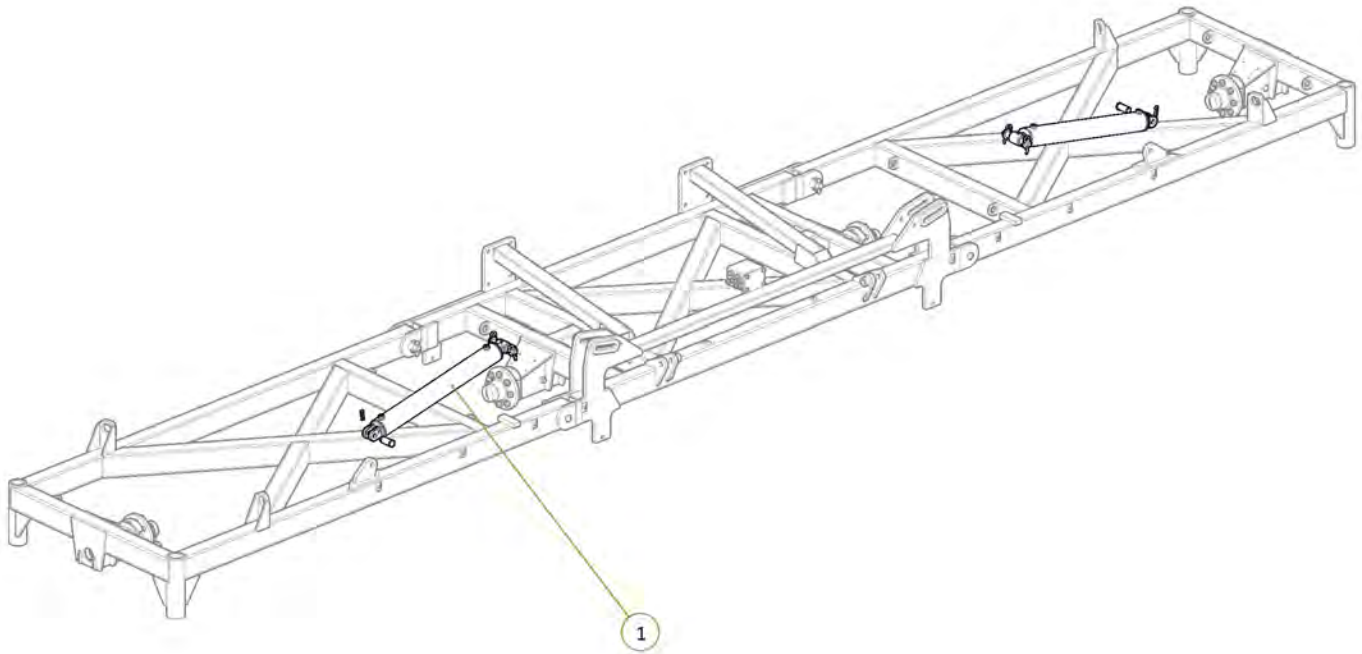
| Item No. | Description | Number | Qty |
|----------|--|-----------------|-----|
| 1 | 2.75"R 6 Tonne 8 on 8" PCD Hub & Stub Complete | 0733-SH27596880 | 4 |
| 2 | M20 x 170 grade 8.8 ZP Bolt | 0211-20170 | 4 |
| 3 | Nyloc Nut M20 | 0221-NYL20 | 4 |

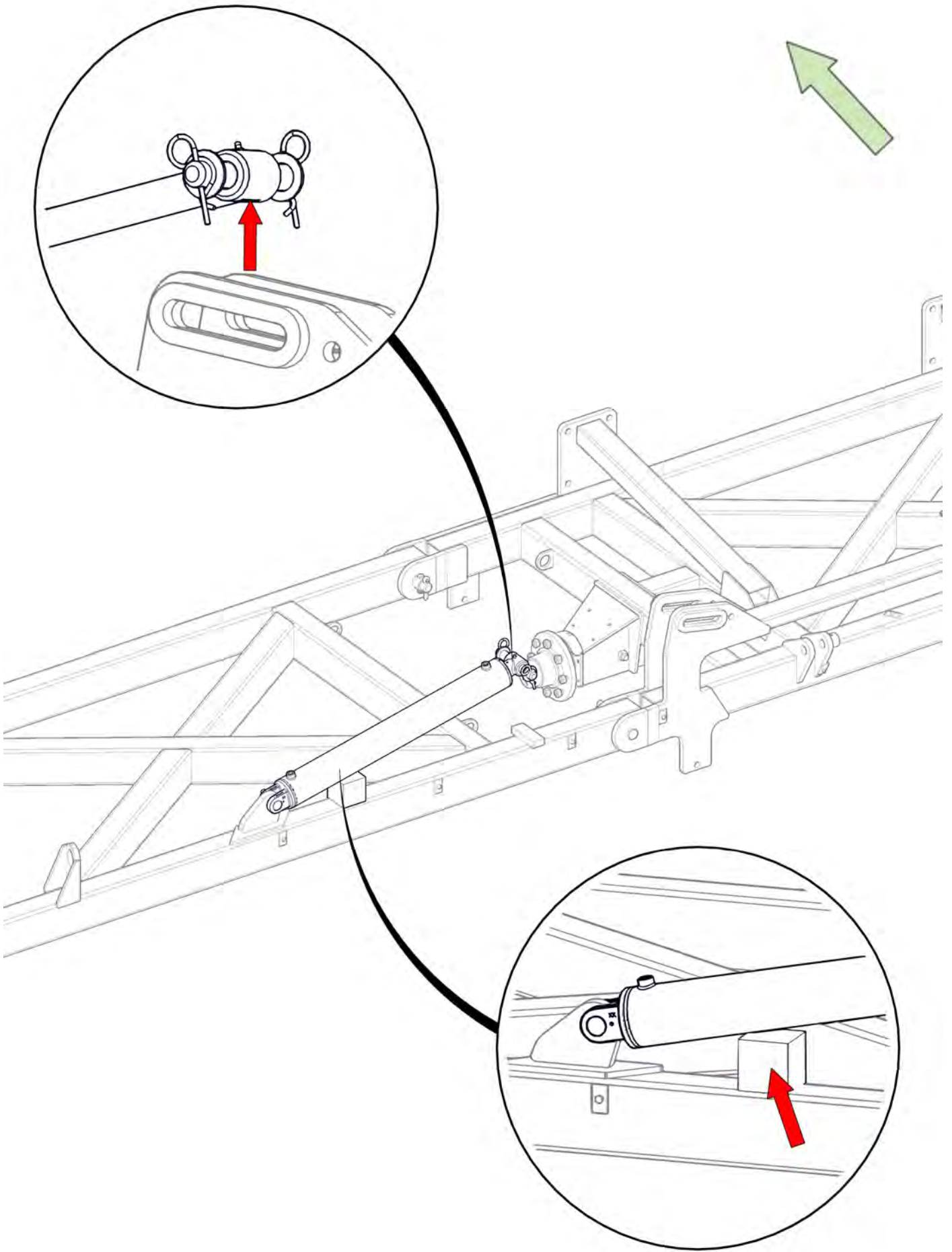


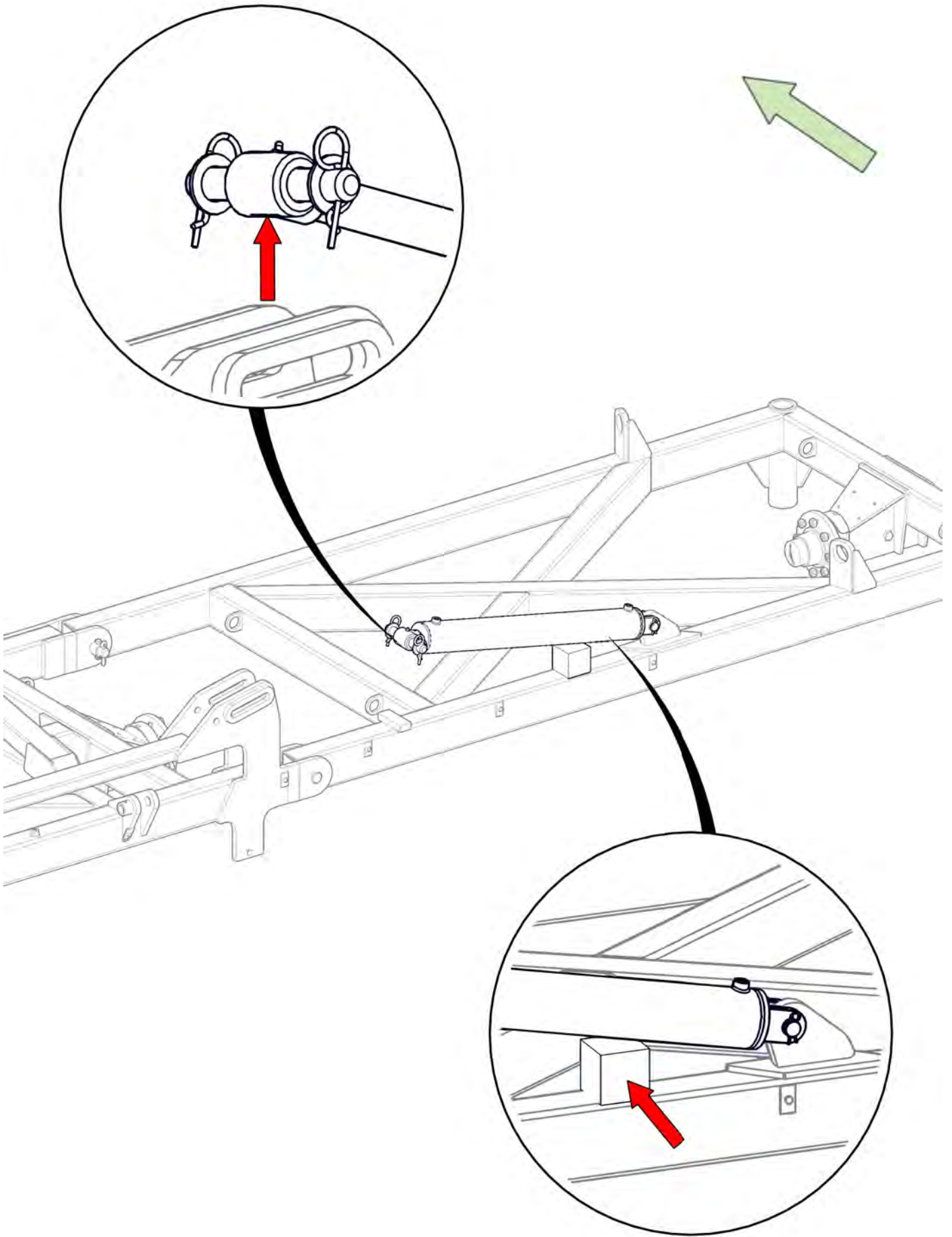
| Item No. | Description | Number | Qty |
|----------|---|-------------|-----|
| 1 | Dual Circuit Single Sequence Block Body | 0802-690507 | 1 |
| 2 | M10 x 25 grade 8.8 ZP Bolt | 0211-1025 | 4 |
| 3 | Washer Flat M10 | 0231-F10 | 4 |
| 4 | Washer Spring M10 | 0231-S10 | 4 |



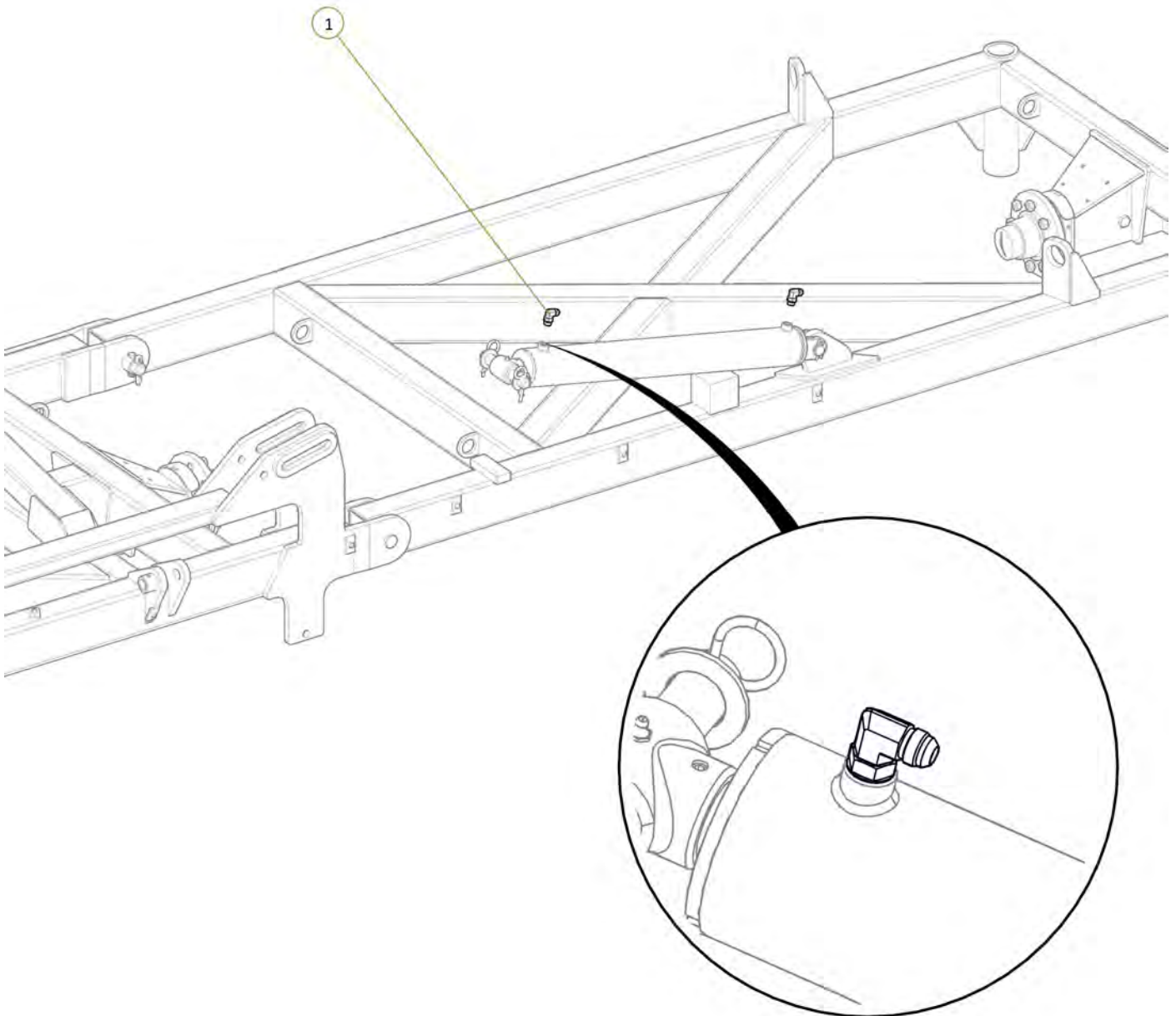
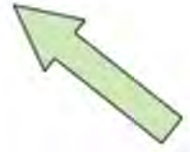
| Item No. | Description | Number | Qty |
|----------|---|------------|-----|
| 1 | 4" Bore 30" Stroke 3" S/Tube 1.75" Rod Hydraulic Cylinder | 0311-430ST | 2 |



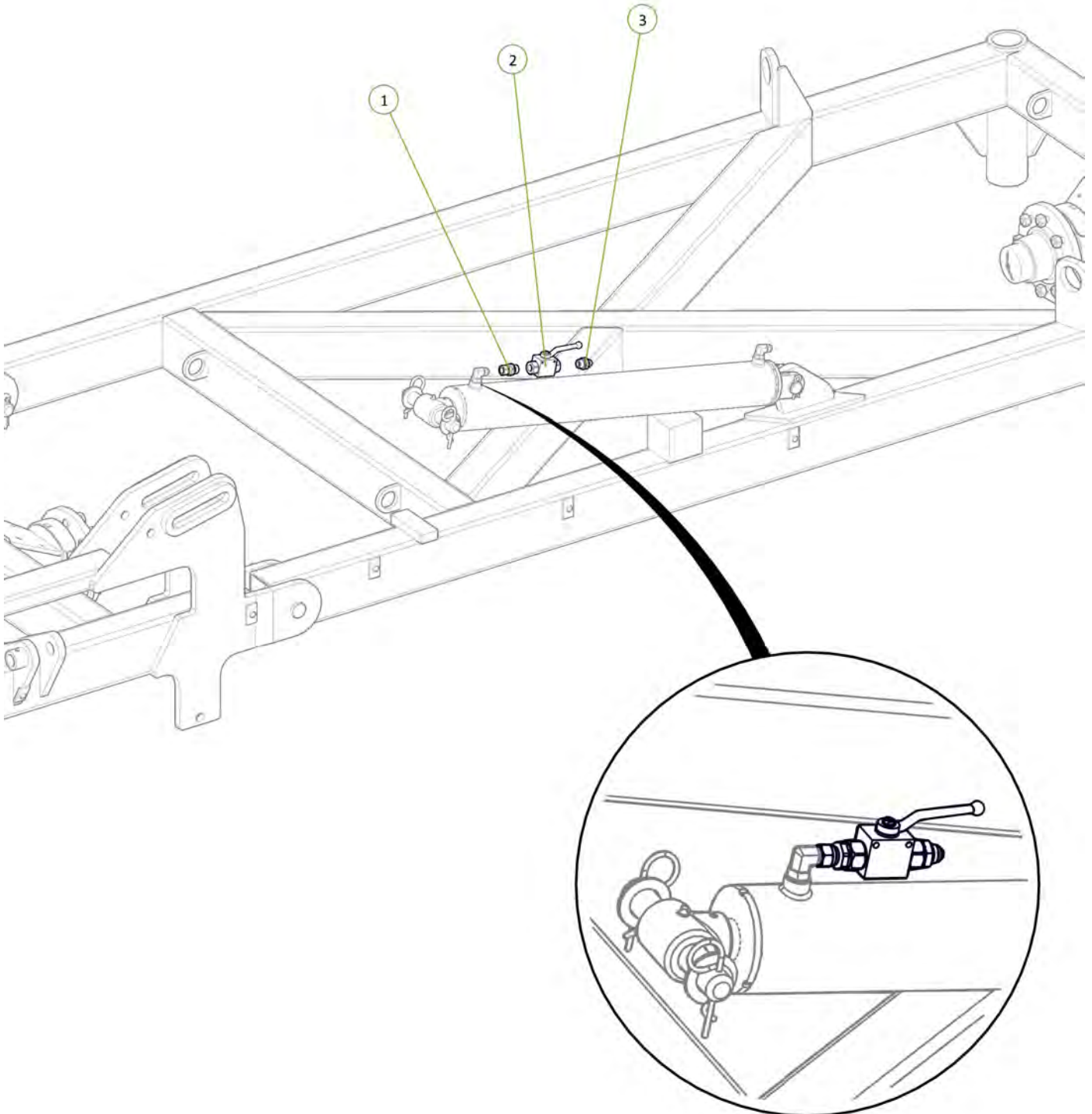




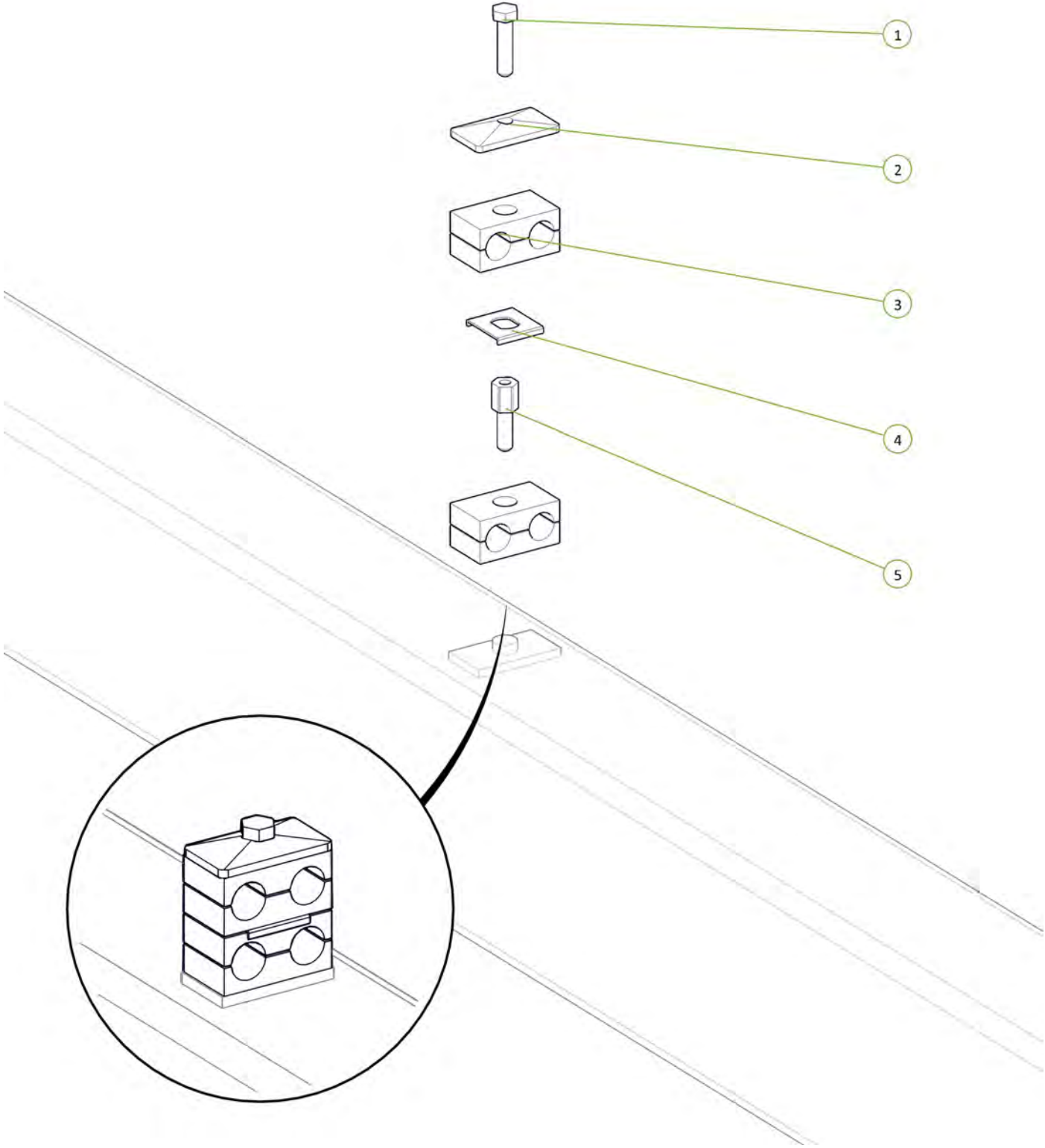
| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2 |



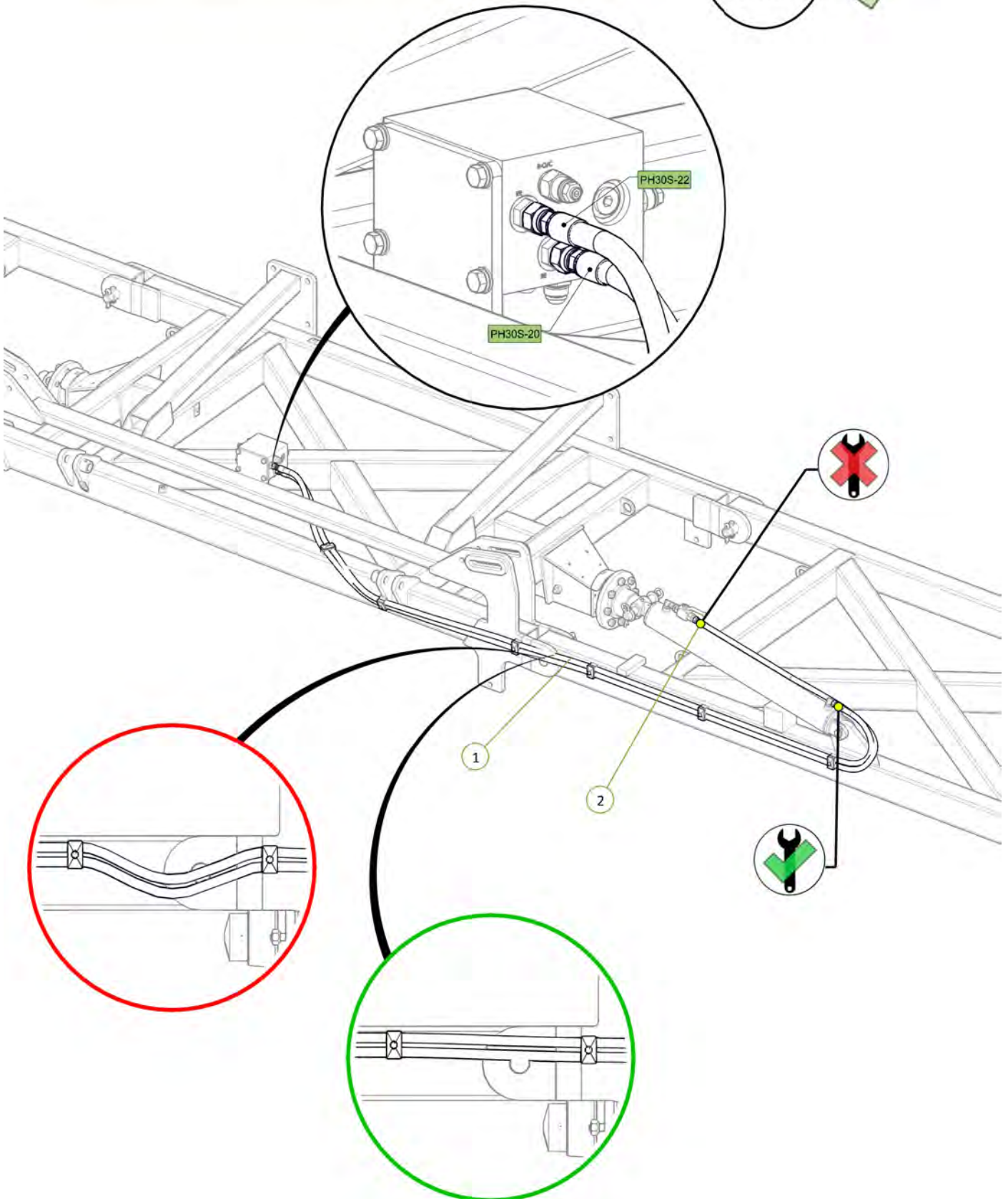
| Item No. | Description | Number | Qty |
|----------|---|------------------|-----|
| 1 | 1/2" BSPP Encapt Male 3/4" JIC Female Swive Adaptor | 0323-S71-0812 | 1 |
| 2 | Ball Valve BSPP 1/2" | 0341-RL20SH-0808 | 1 |
| 3 | 1/2" BSPP Encapt Male 3/4" JIC Male Adaptor | 0323-S74-0812 | 1 |



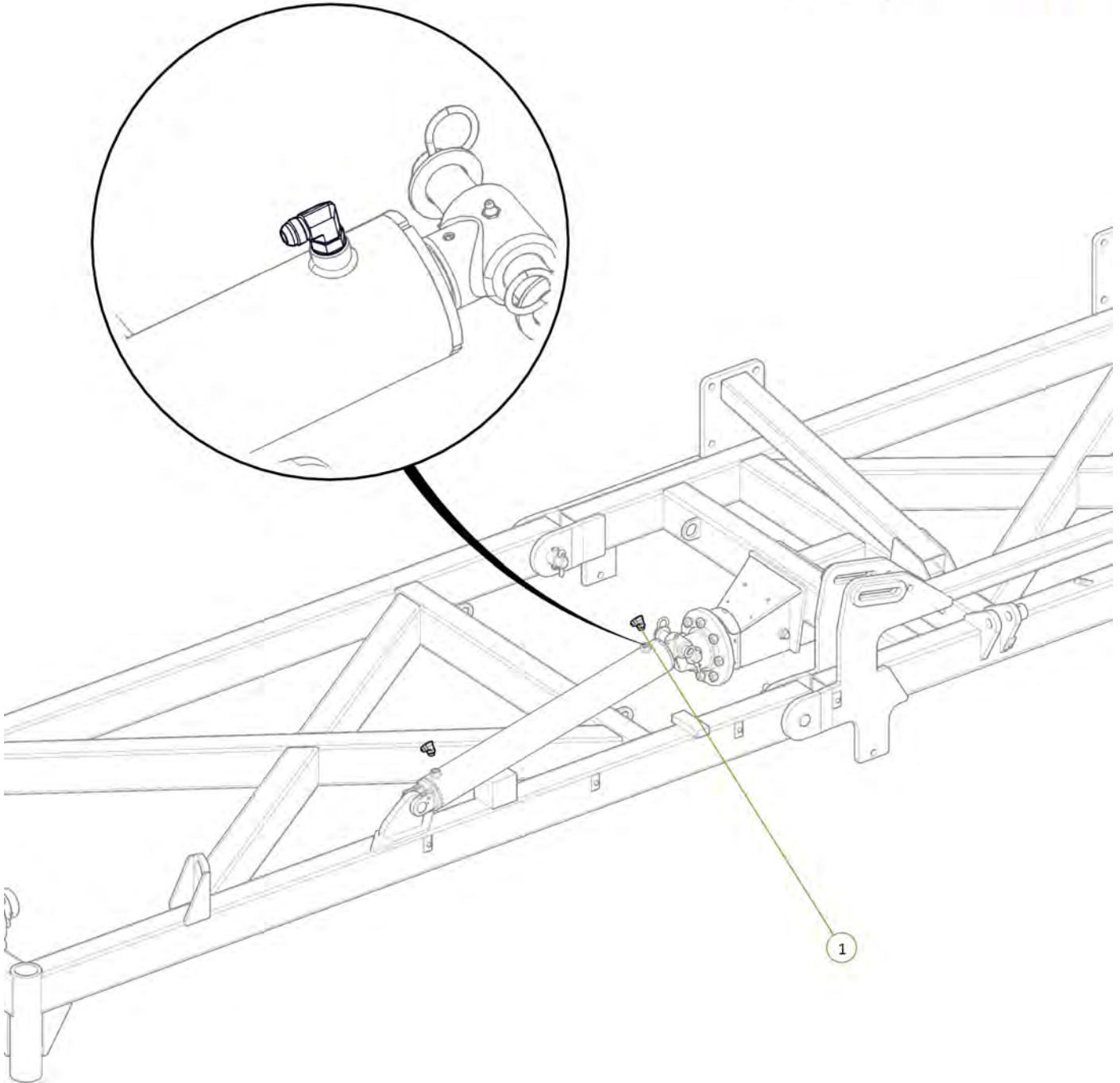
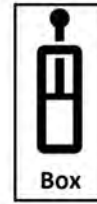
| Item No. | Description | Number | Qty |
|----------|--|-----------------|-----|
| 1 | Double Clamp Bolt Group 2 | 0325-RCD-2BH | 1 |
| 2 | Clamp top plate group 2 | 0325-RCD-2PT | 1 |
| 3 | 17mm Clamp Jaws (Pair) | 0325-RCD-17J | 2 |
| 4 | Double Clamp Stacking Plate (Non Ryco) | 0325-SI-2-5D-W3 |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



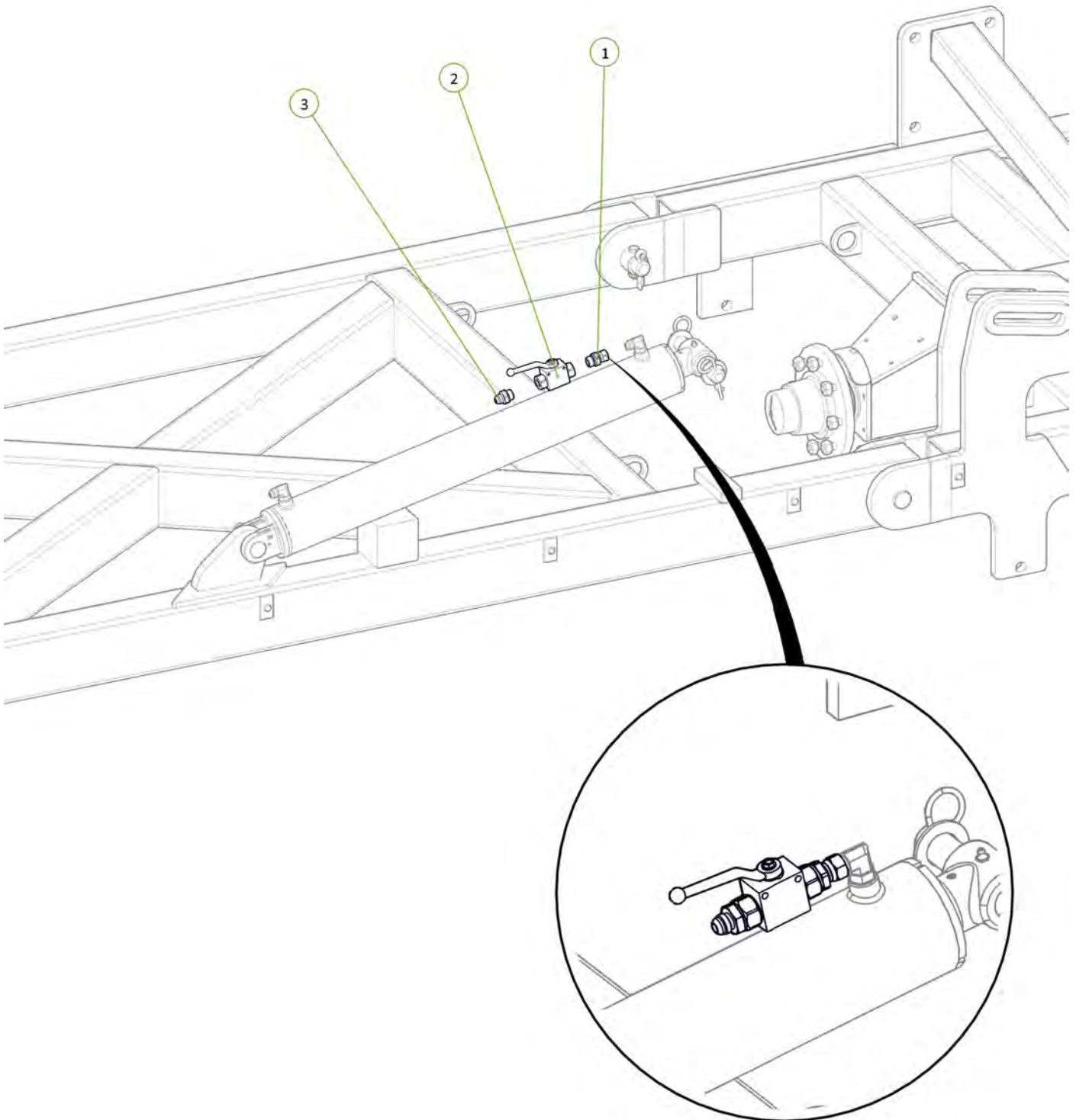
| Item No. | Description | Number | Qty |
|----------|---|----------|-----|
| 1 | Valve RE Port to RH Wing Cylinder Rear Port | PH30S-20 | 1 |
| 2 | Valve RR Port to RH Wing Cylinder Rod Port | PH30S-22 | 1 |



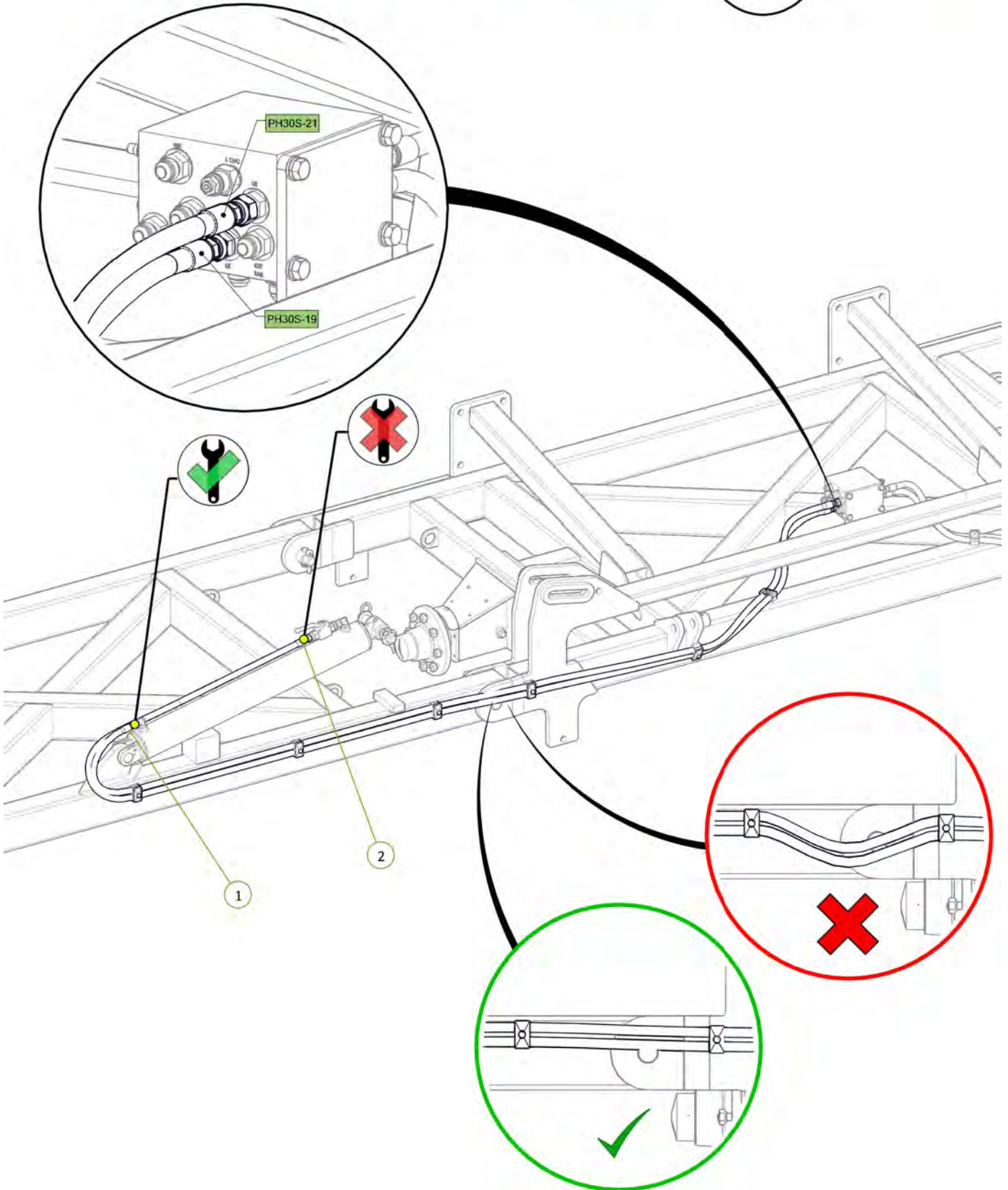
| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2 |



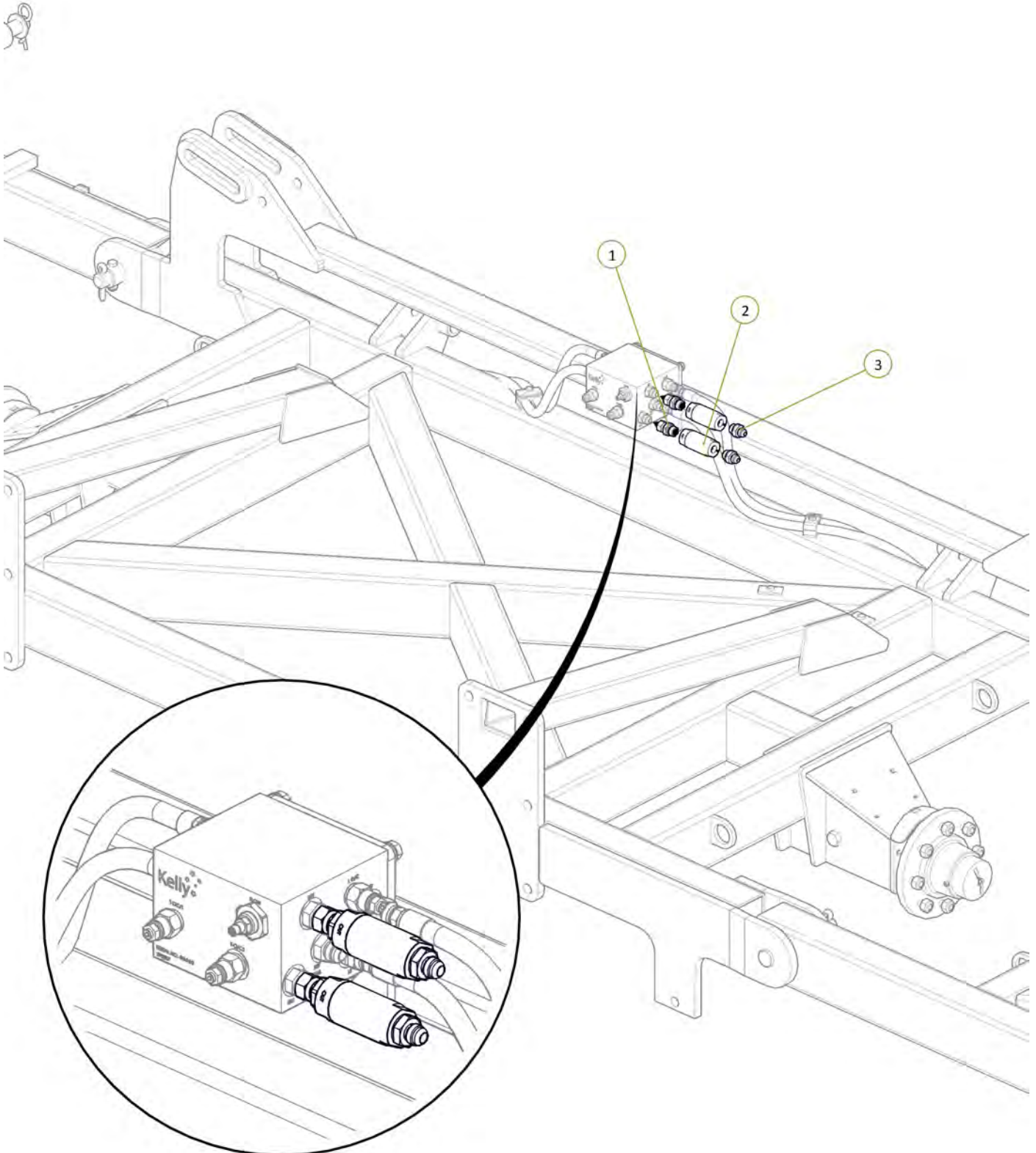
| Item No. | Description | Number | Qty |
|----------|---|------------------|-----|
| 1 | 1/2" BSPP Encapt Male 3/4" JIC Female Swive Adaptor | 0323-S71-0812 | 1 |
| 2 | Ball Valve BSPP 1/2" | 0341-RL20SH-0808 | 1 |
| 3 | 1/2" BSPP Encapt Male 3/4" JIC Male Adaptor | 0323-S74-0812 | 1 |



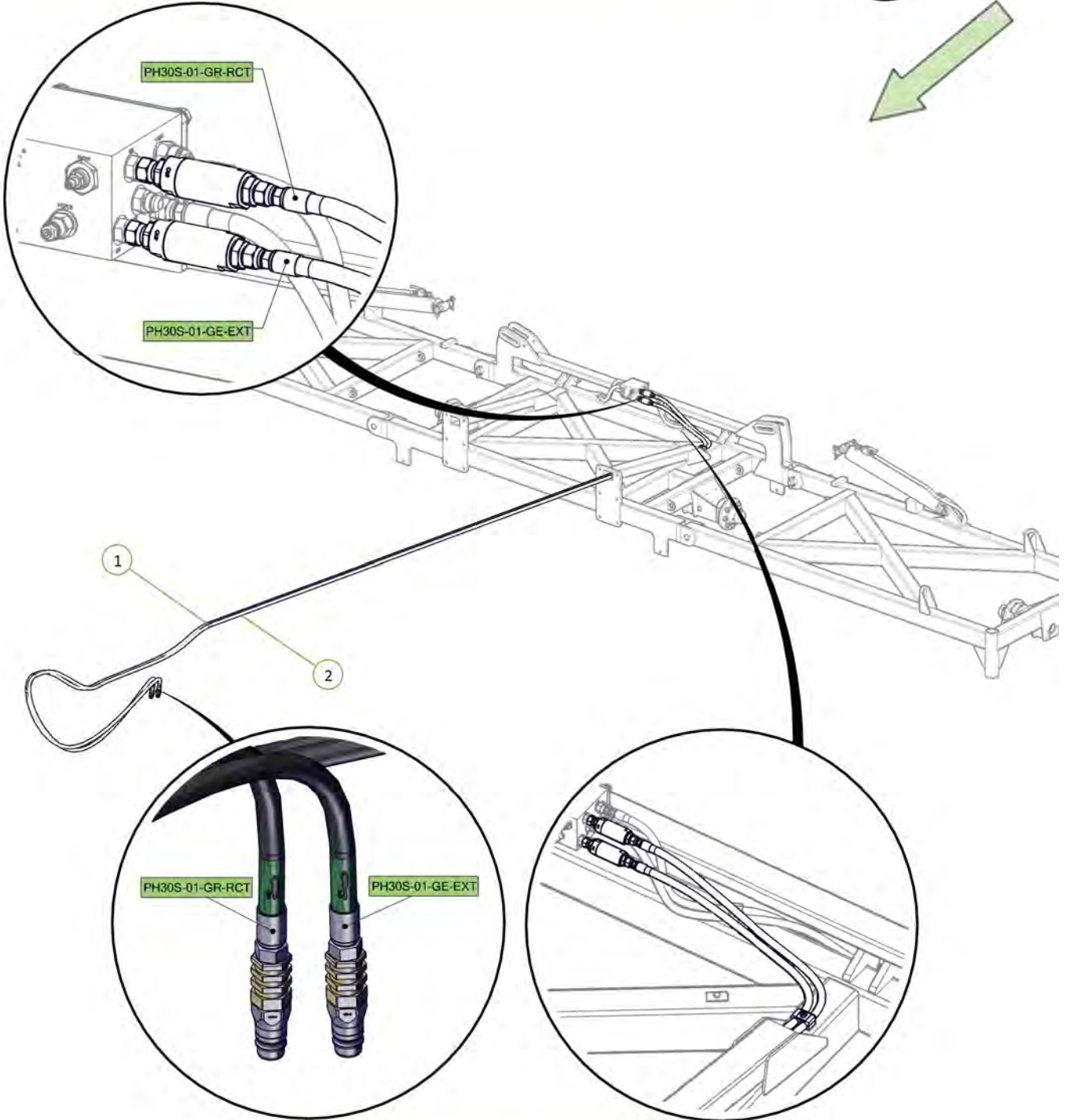
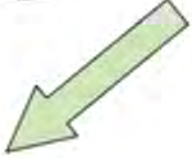
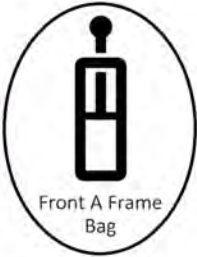
| Item No. | Description | Number | Qty |
|----------|---|----------|-----|
| 1 | Valve LE Port to LH Wing Cylinder Rear Port | PH30S-19 | 1 |
| 2 | Valve LR Port to LH Wing Cylinder Rod Port | PH30S-21 | 1 |



| Item No. | Description | Number | Qty |
|----------|---|----------------|-----|
| 1 | 1/2" BSPP Encapt Male 3/4" JIC Female Swive Adaptor | 0323-S71-0812 | 2 |
| 2 | In Line Hydraulic Oil Filter | 0343-924001261 | 2 |
| 3 | 1/2" BSPP Encapt Male 3/4" JIC Male Adaptor | 0323-S74-0812 | 2 |



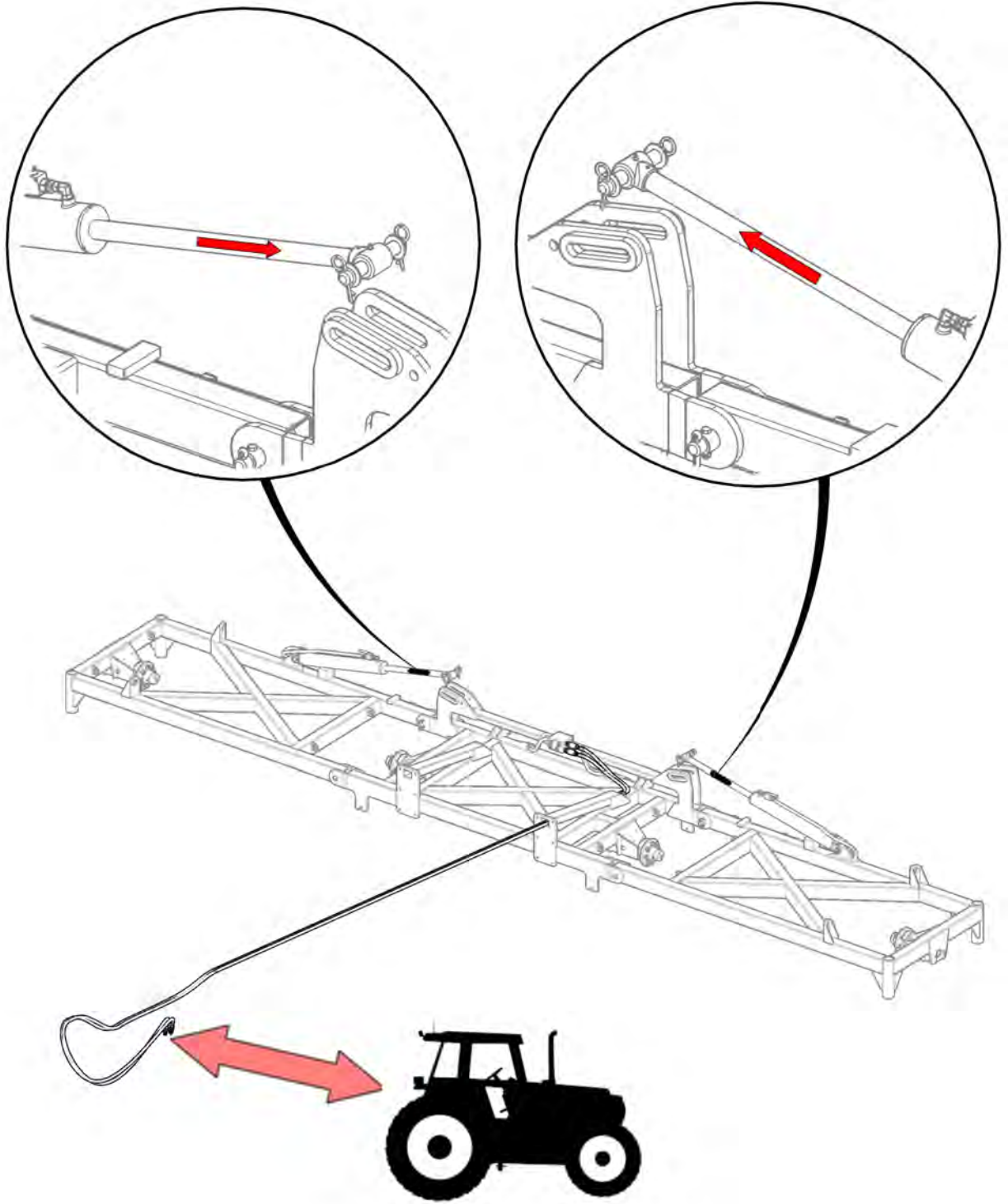
| Item No. | Description | Number | Qty |
|----------|--|-----------------|-----|
| 1 | Tractor to Sequence Valve EXT Port fitted with Green Extend Decal | PH30S-01-GE-EXT | 1 |
| 2 | Tractor to Sequence Valve RCT Port fitted with Green Retract Decal | PH30S-01-GR-RCT | 1 |

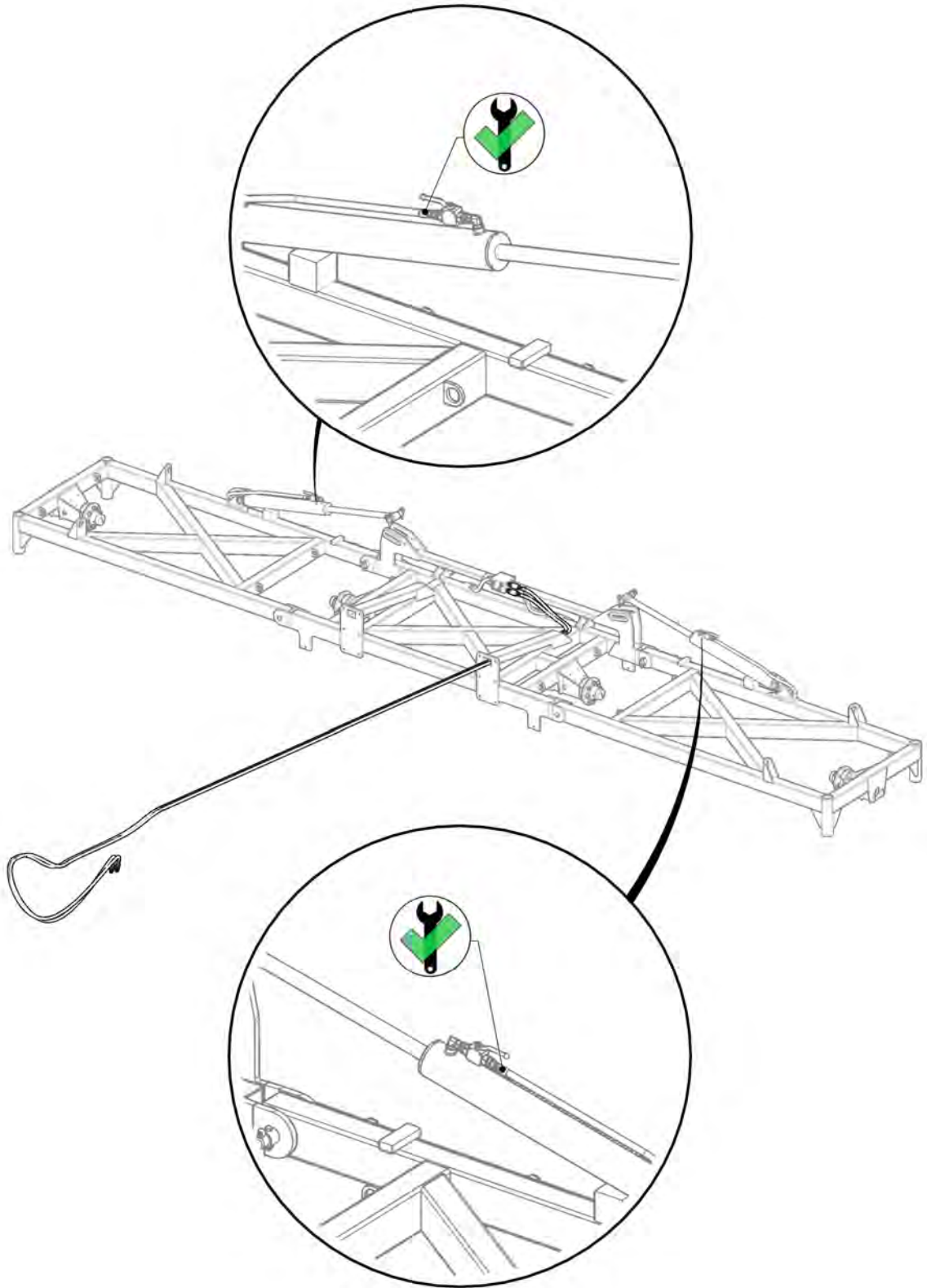


All retract hose fittings left loose to allow air to escape

All cylinders chocked up to prevent clash during extend

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

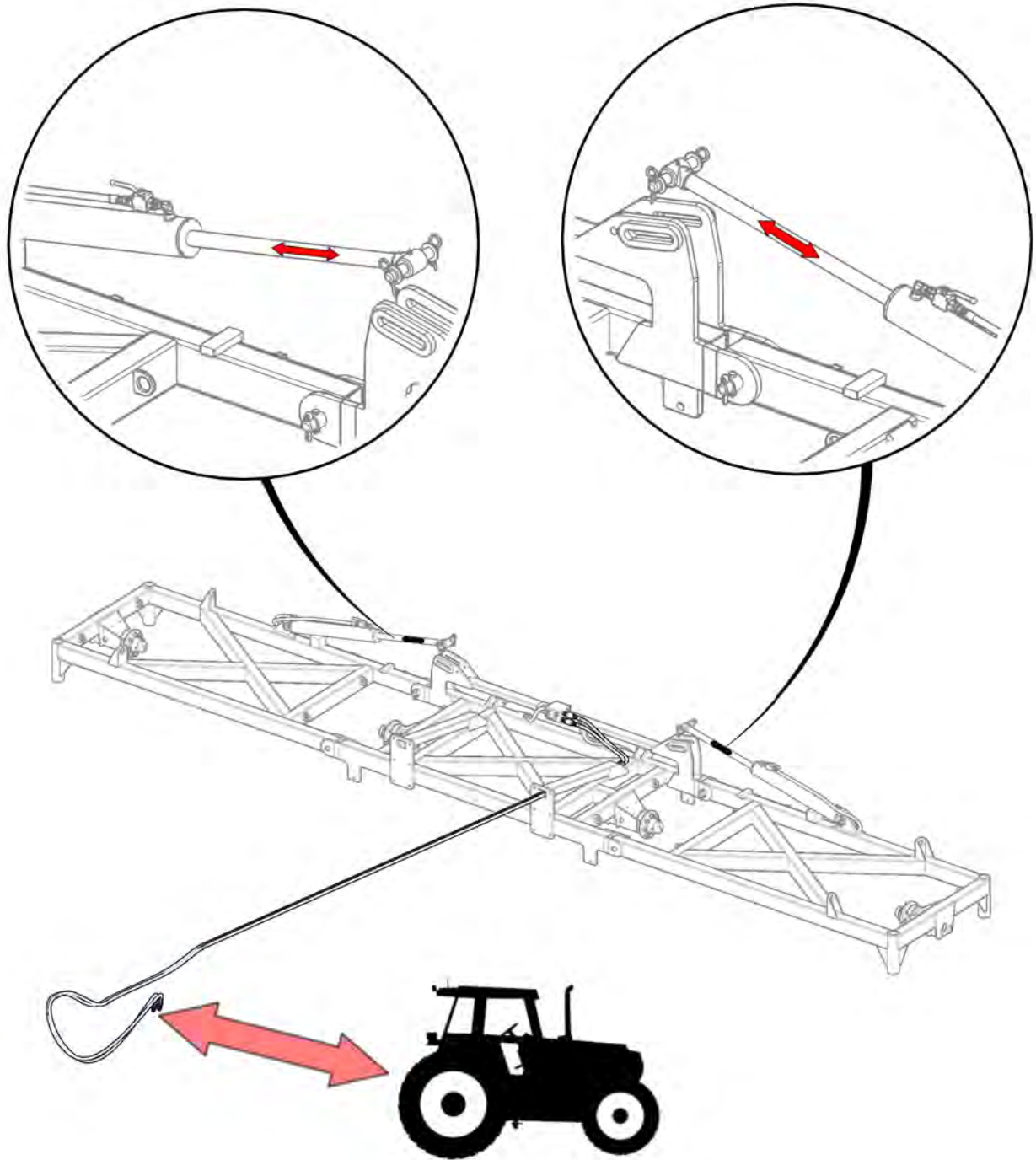




Retract fittings tightened



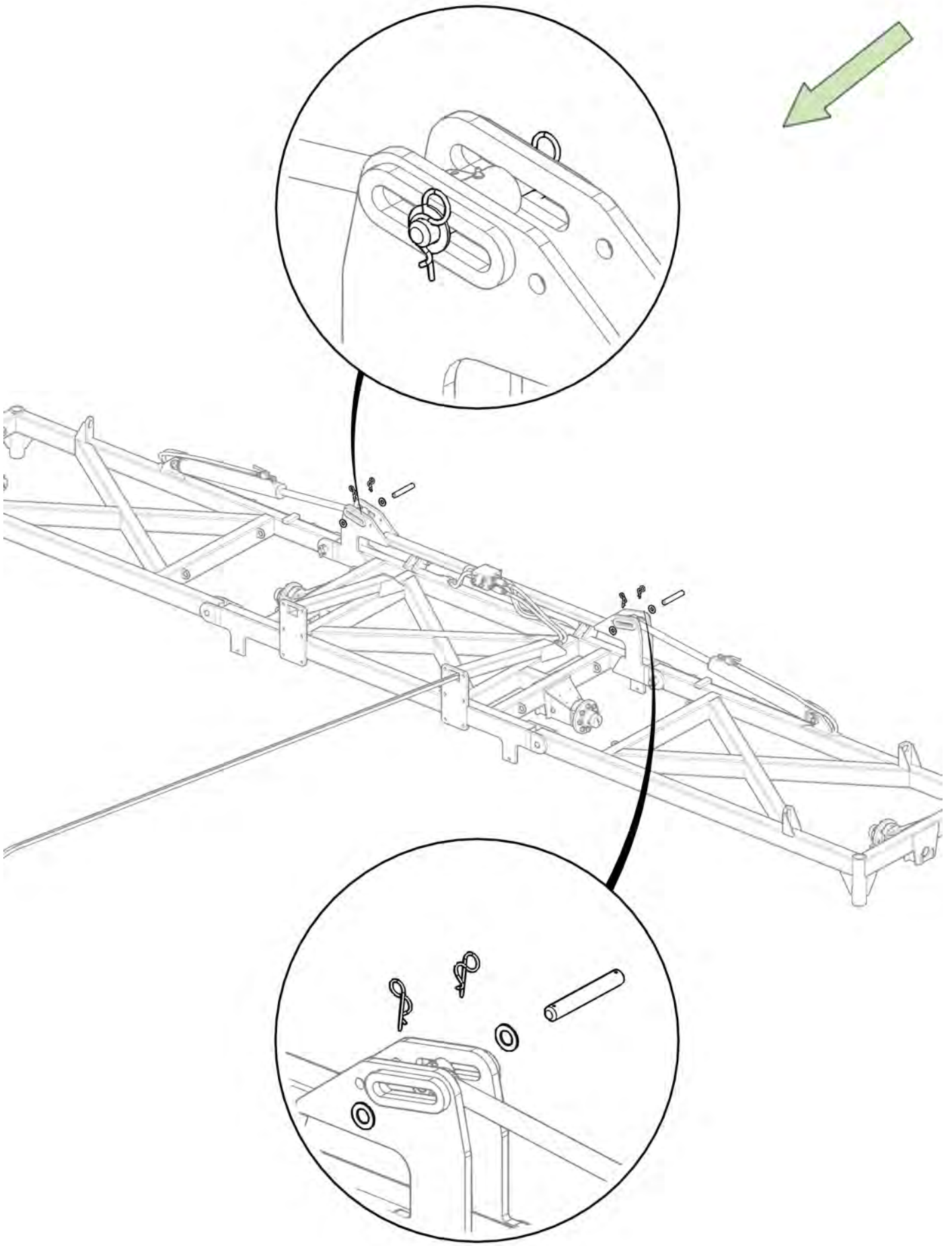
Signed _____ Date ____/____/____
Unit Serial Number: _____



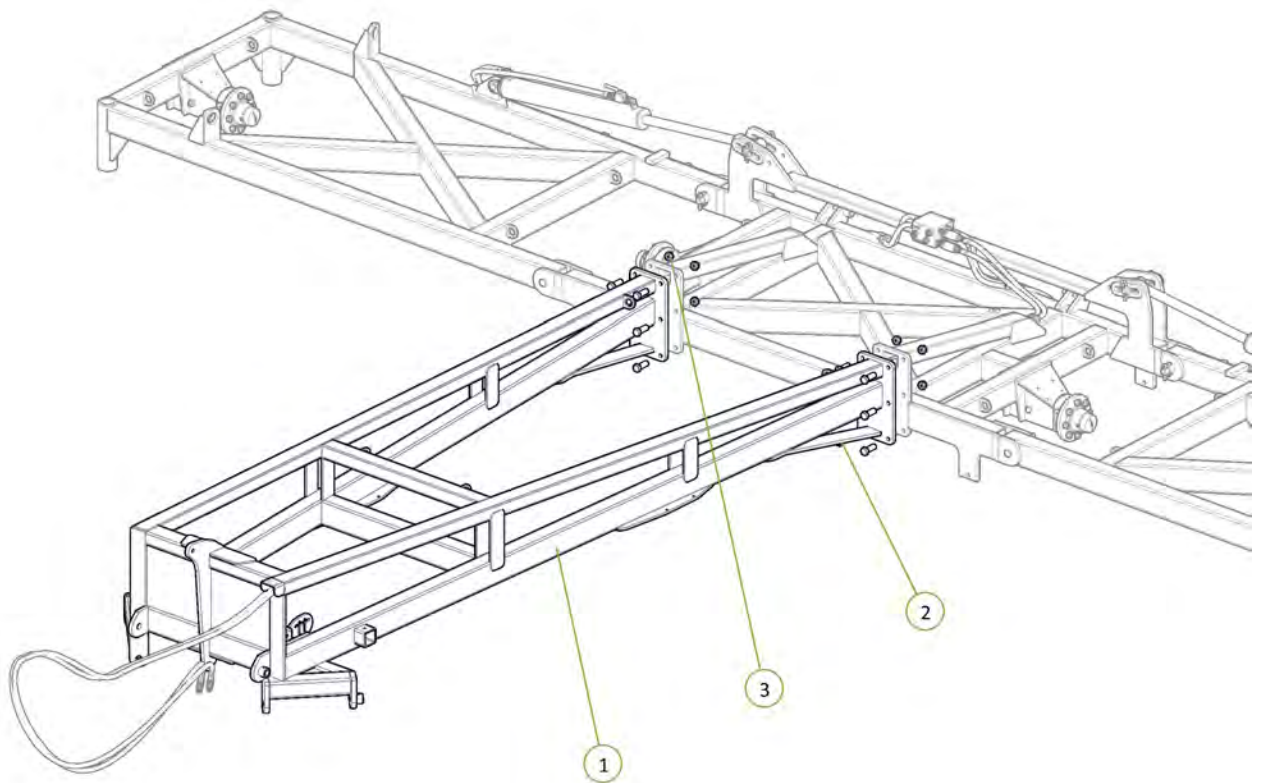
Cylinders cycled to expel air from system



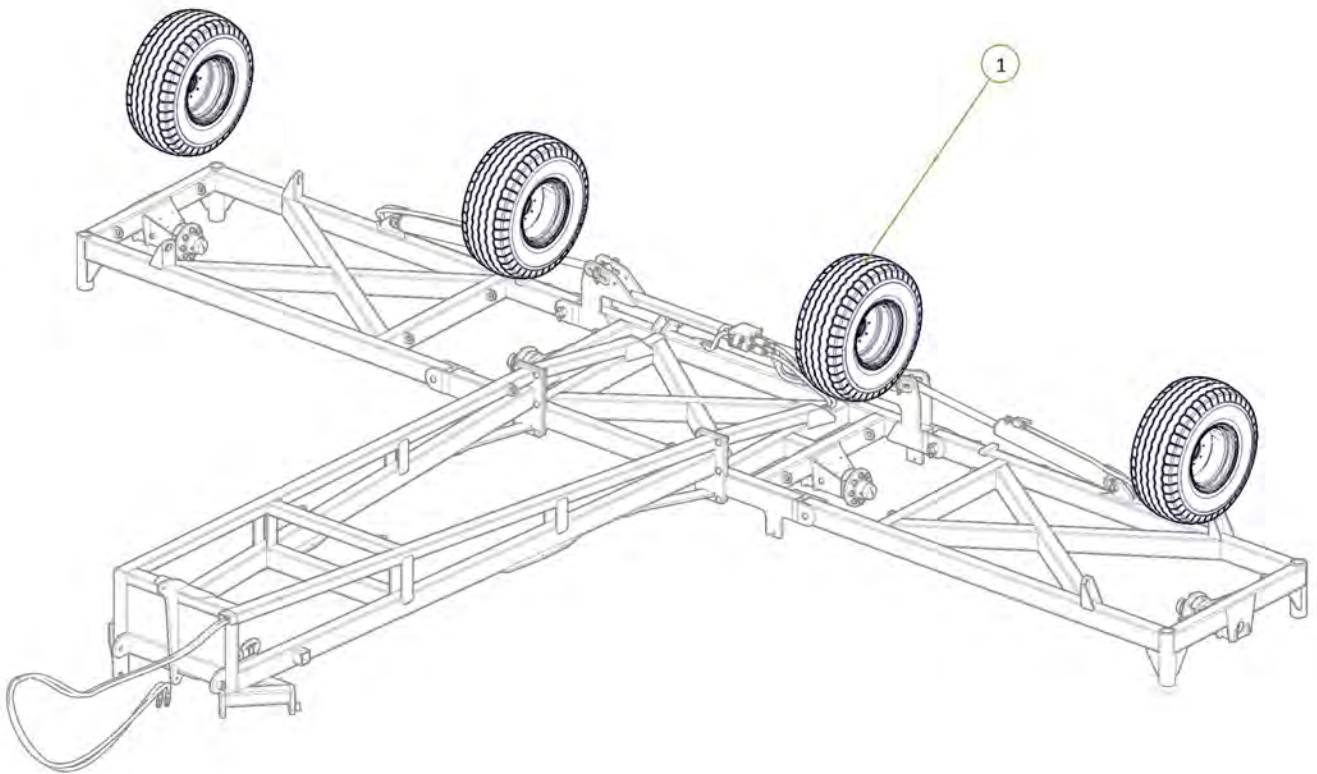
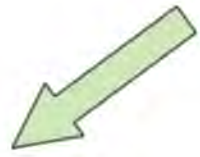
Signed _____ Date ____ / ____ / ____
 Unit Serial Number: _____



| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | 30' Main Pull | 0830-02 | 1 |
| 2 | M24 x 75 grade 8.8 zp Bolt | 0211-2475 | 12 |
| 3 | Nyloc Nut M24 | 0221-NYL24 | 12 |



| Item No. | Description | Number | Qty |
|----------|------------------------------------|-------------------|-----|
| 1 | 15.0/70-18 Tyre On 8 on 8" PCD Rim | 0751-15.0-70-18TR | 4 |

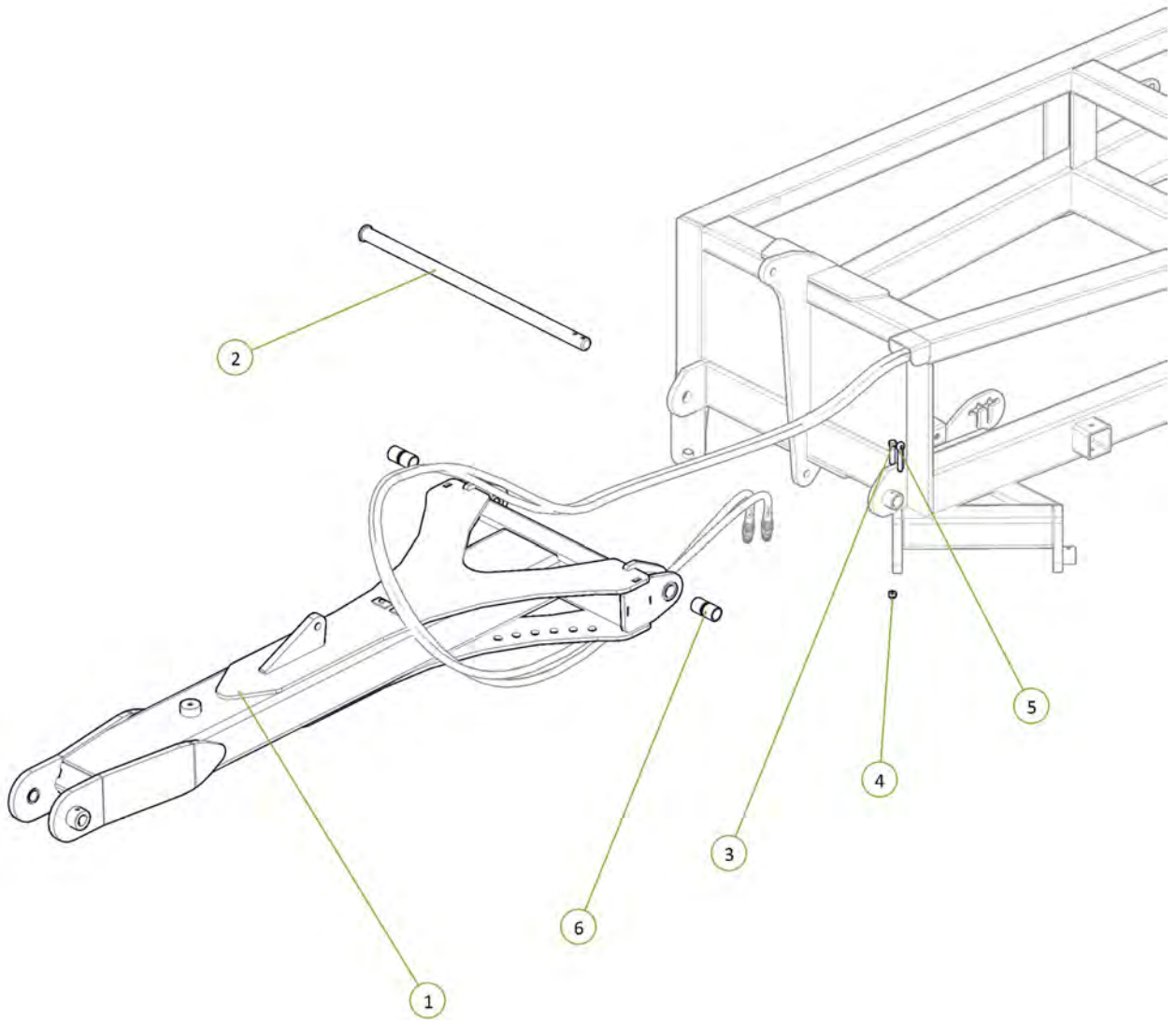


All wheel nuts tightened to 100ft-lb / 140Nm

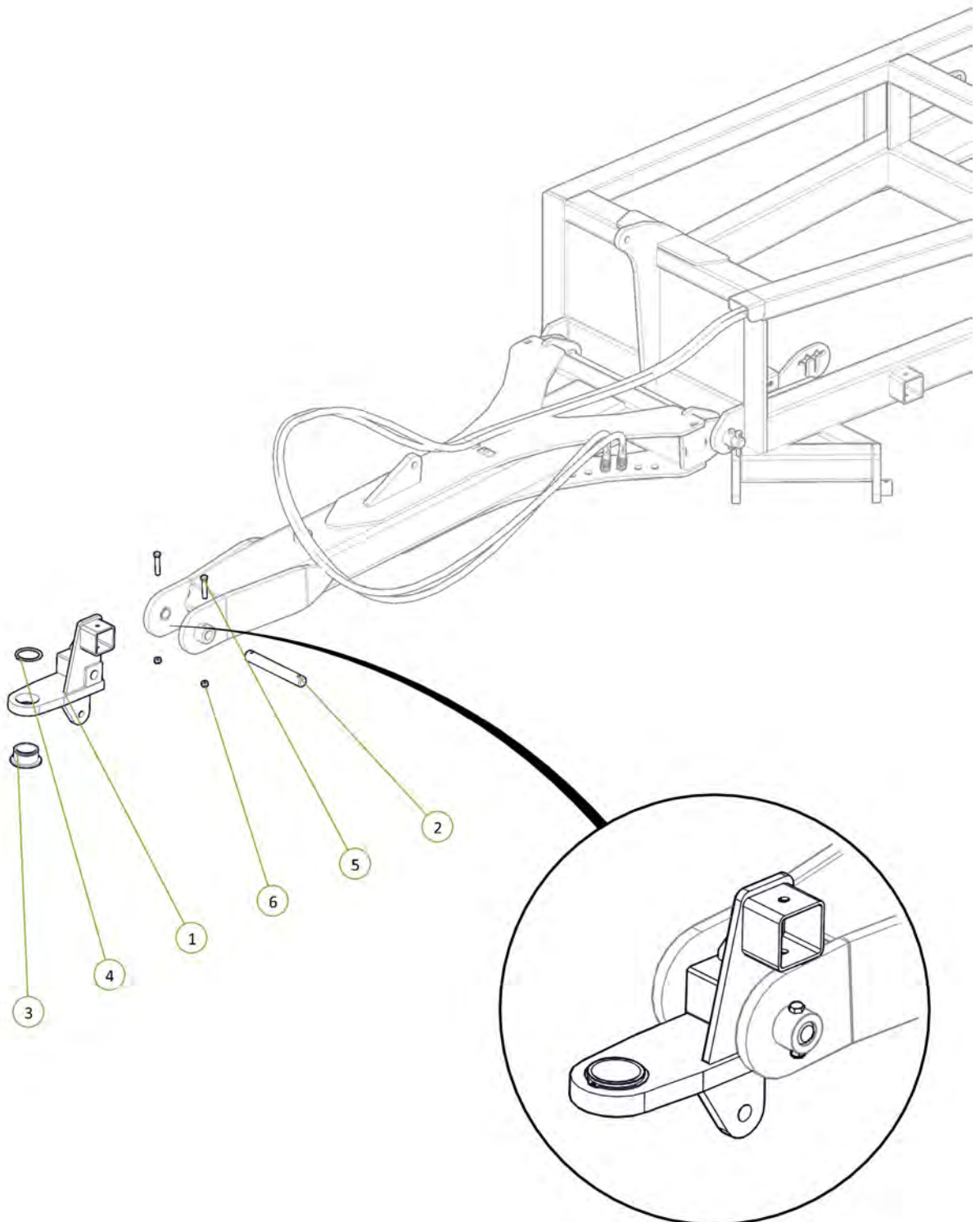


Signed _____ Date ____/____/____
 Unit Serial Number: _____

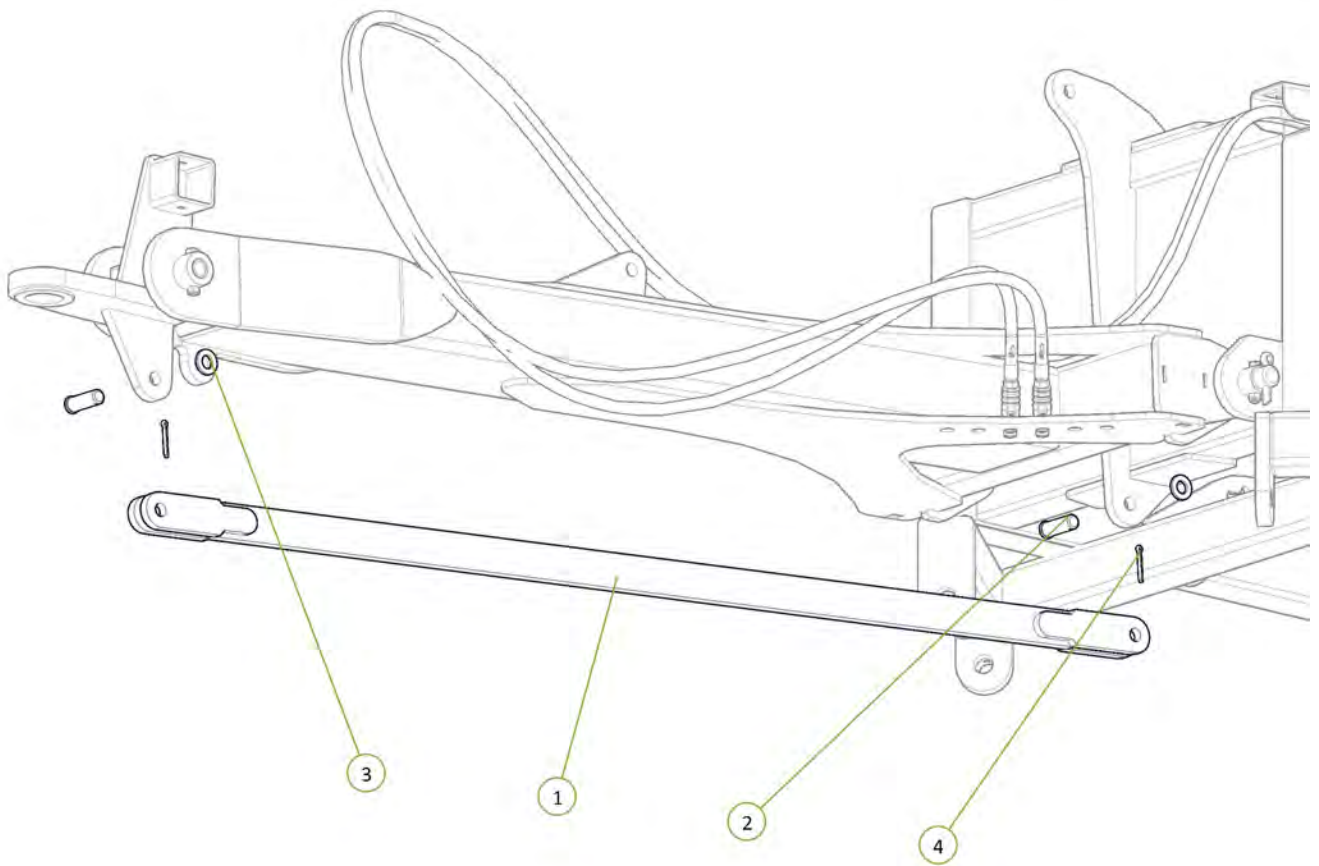
| Item No. | Description | Number | Qty |
|----------|----------------------------|----------------|-----|
| 1 | Tapered T-Bar Drawbar | 1510-08-2 | 1 |
| 2 | Drawbar Pivot Pin | 0801-10-13-970 | 1 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 1 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 1 |
| 5 | Cotter Pin M13 x 63 | 0261-PINC1363 | 1 |
| 6 | Drawbar Pivot Bush | 0801-B423838 | 4 |



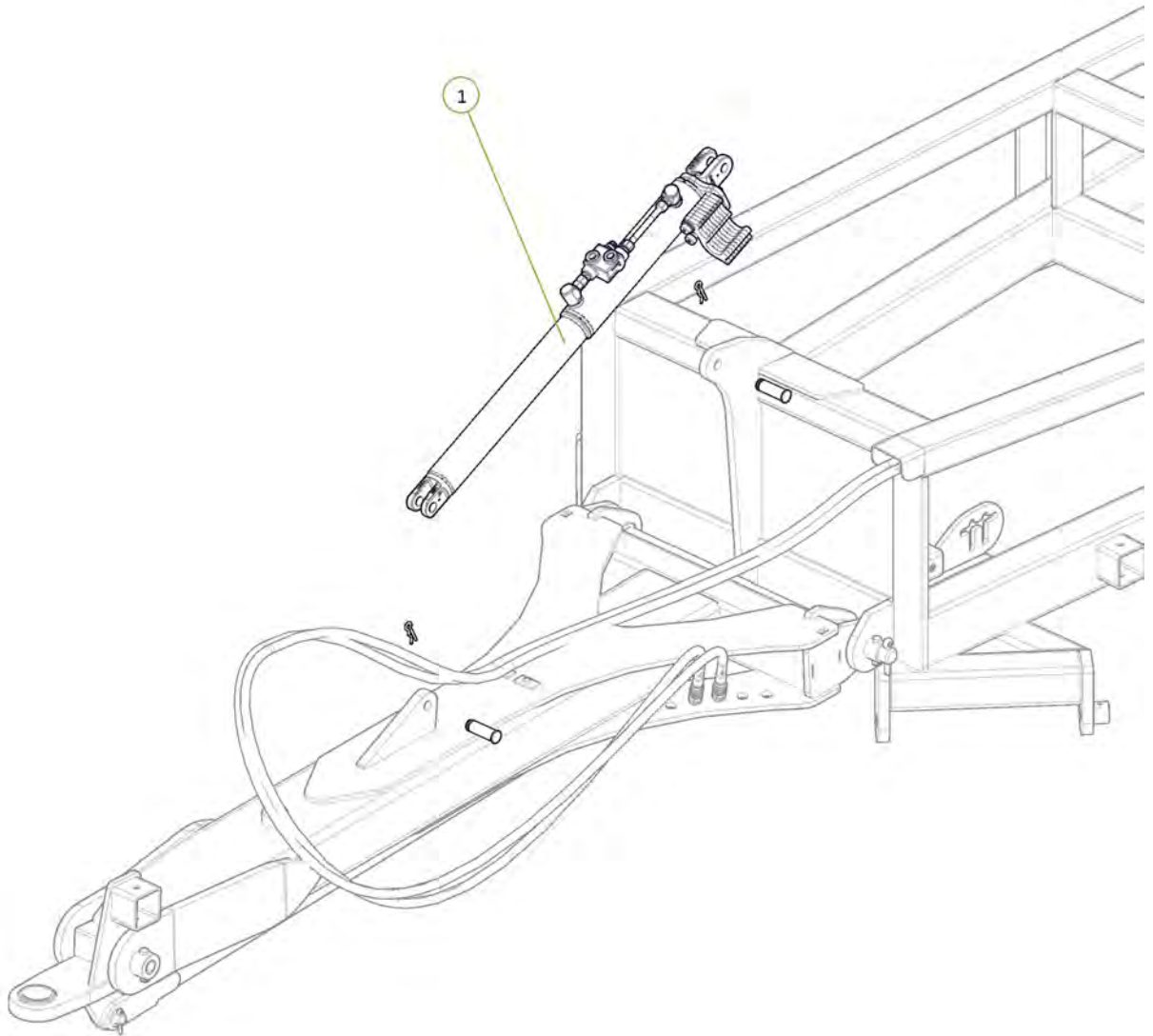
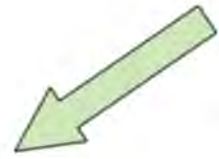
| Item No. | Description | Number | Qty |
|----------|--------------------------------|------------------|-----|
| 1 | Heavy Duty Jack Mount Outer | 0801-93 | 1 |
| 2 | Tow Hitch Pivot Pin | 0801-10-06 | 1 |
| 3 | Hardened Tow Hitch Bush 2 1/4" | 0801-KE-0905-1-B | 1 |
| 4 | Criclip External 82mm | 0172-D1400-0820 | 1 |
| 5 | M12 x 75 grade 8.8 ZP Bolt | 0211-1275 | 2 |
| 6 | Nyloc Nut M12 | 0221-NYL12 | 2 |



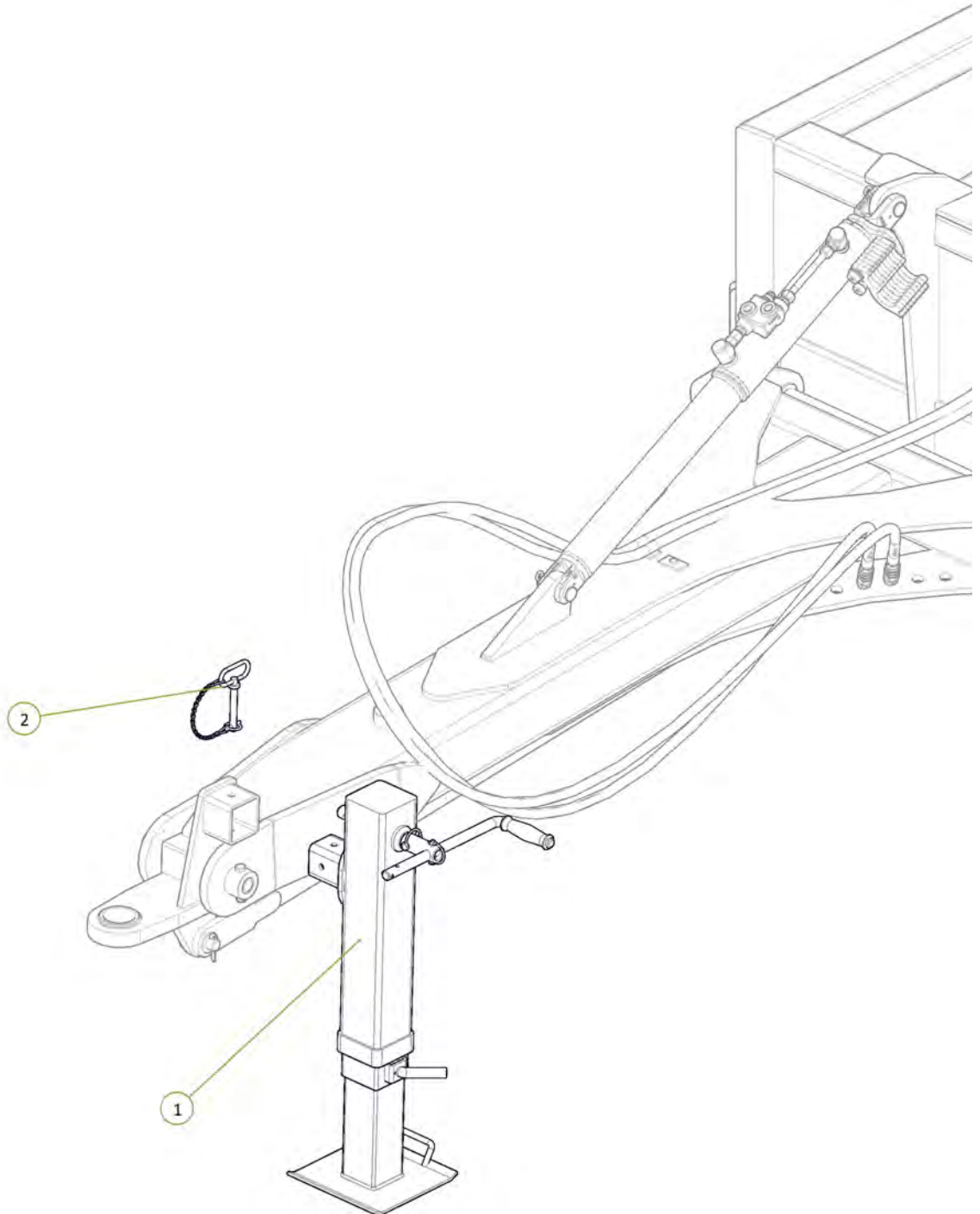
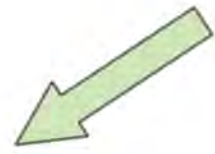
| Item No. | Description | Number | Qty |
|----------|------------------------|---------------|-----|
| 1 | Parallel Arm | 0810-22 | 1 |
| 2 | Clevis Pin 25mm x 75mm | 0801-KE0307-1 | 2 |
| 3 | Washer Flat M24 | 0231-F24 | 2 |
| 4 | Cotter Pin M6 x 50mm | 0261-PINC650 | 2 |



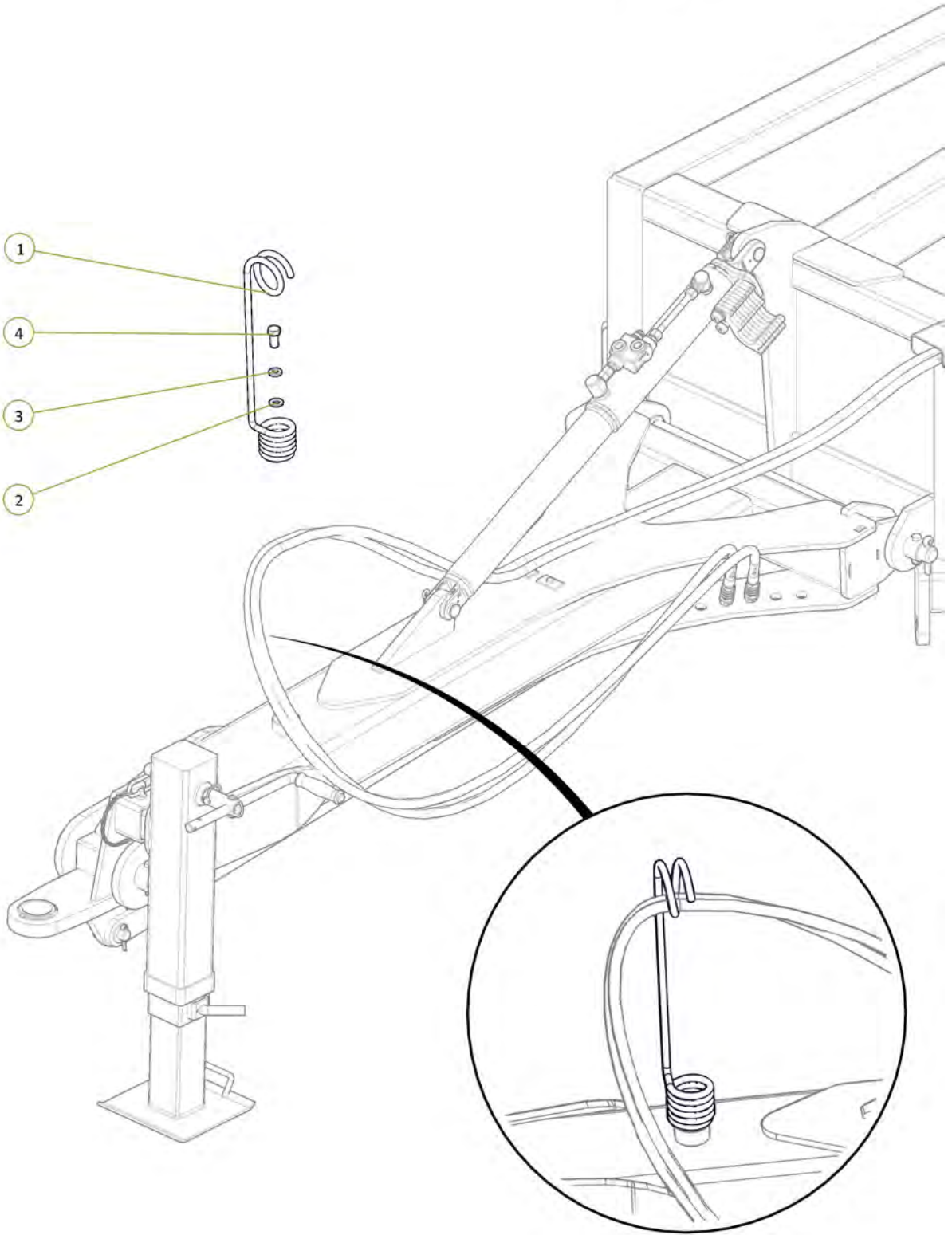
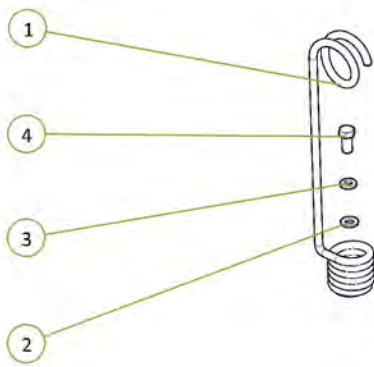
| Item No. | Description | Number | Qty |
|----------|---|-------------|-----|
| 1 | 3" Bore x 12" Stroke 1.5" Rod Extended Hydraulic Cylinder | 0311-312EXT | 1 |

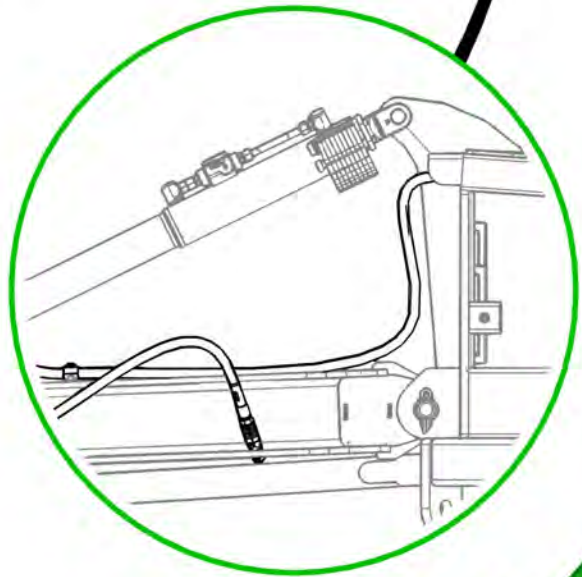
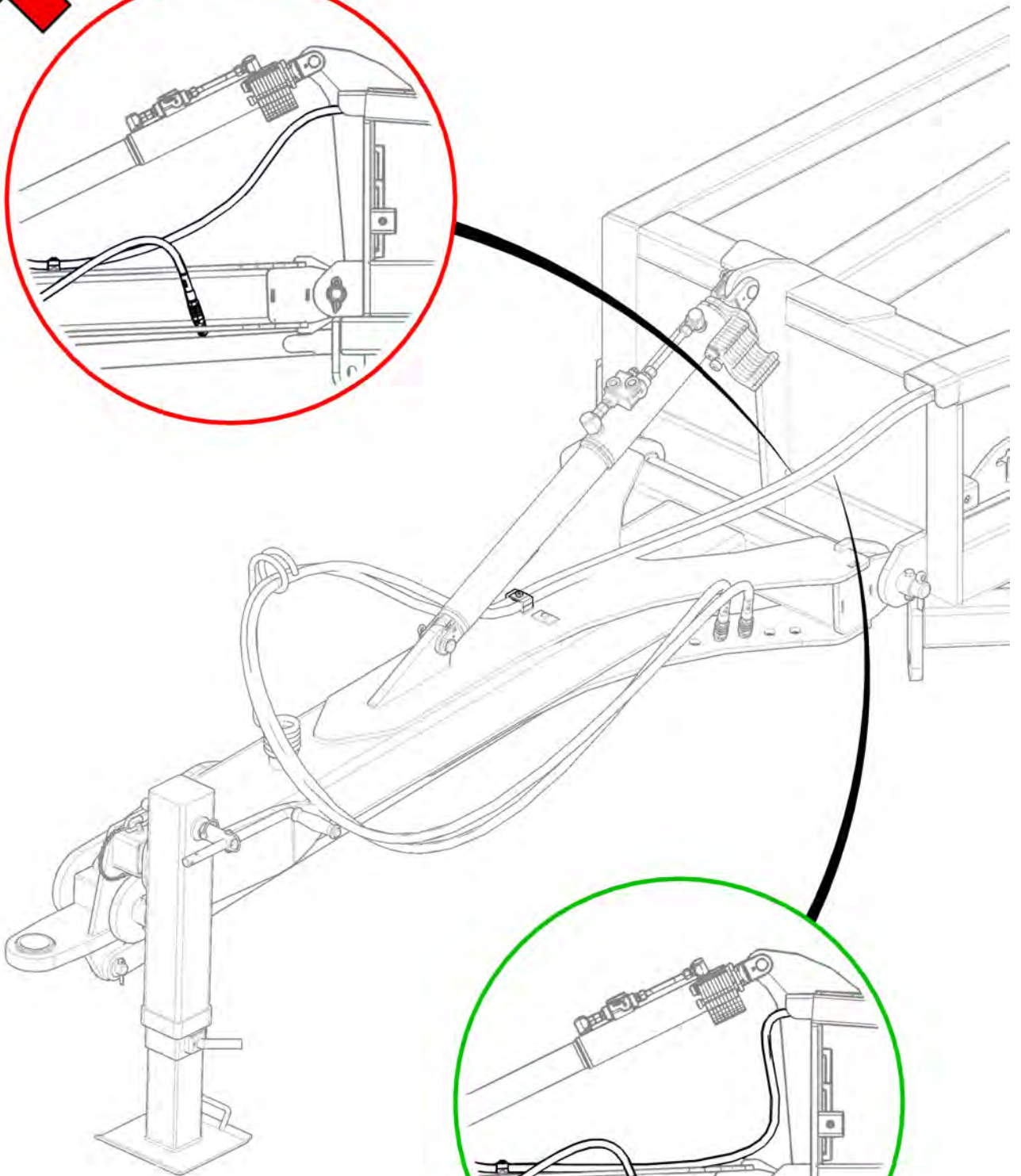
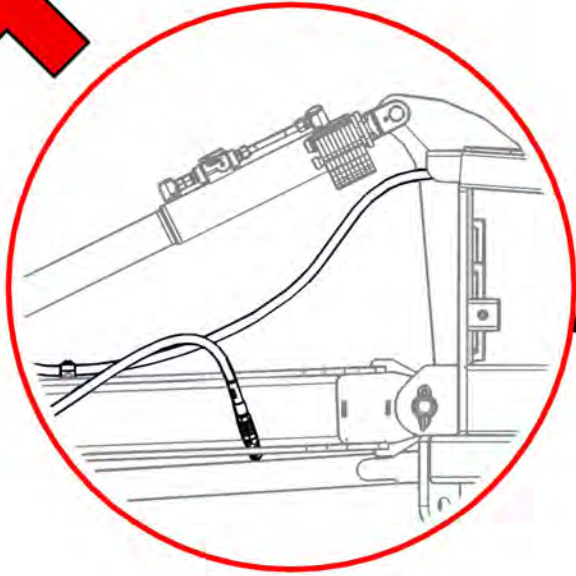


| Item No. | Description | Number | Qty |
|----------|-----------------|-------------|-----|
| 1 | Heavy Duty Jack | 0801-SAK45B | 1 |
| 2 | Jack Pin | 0801-B3077 | 1 |

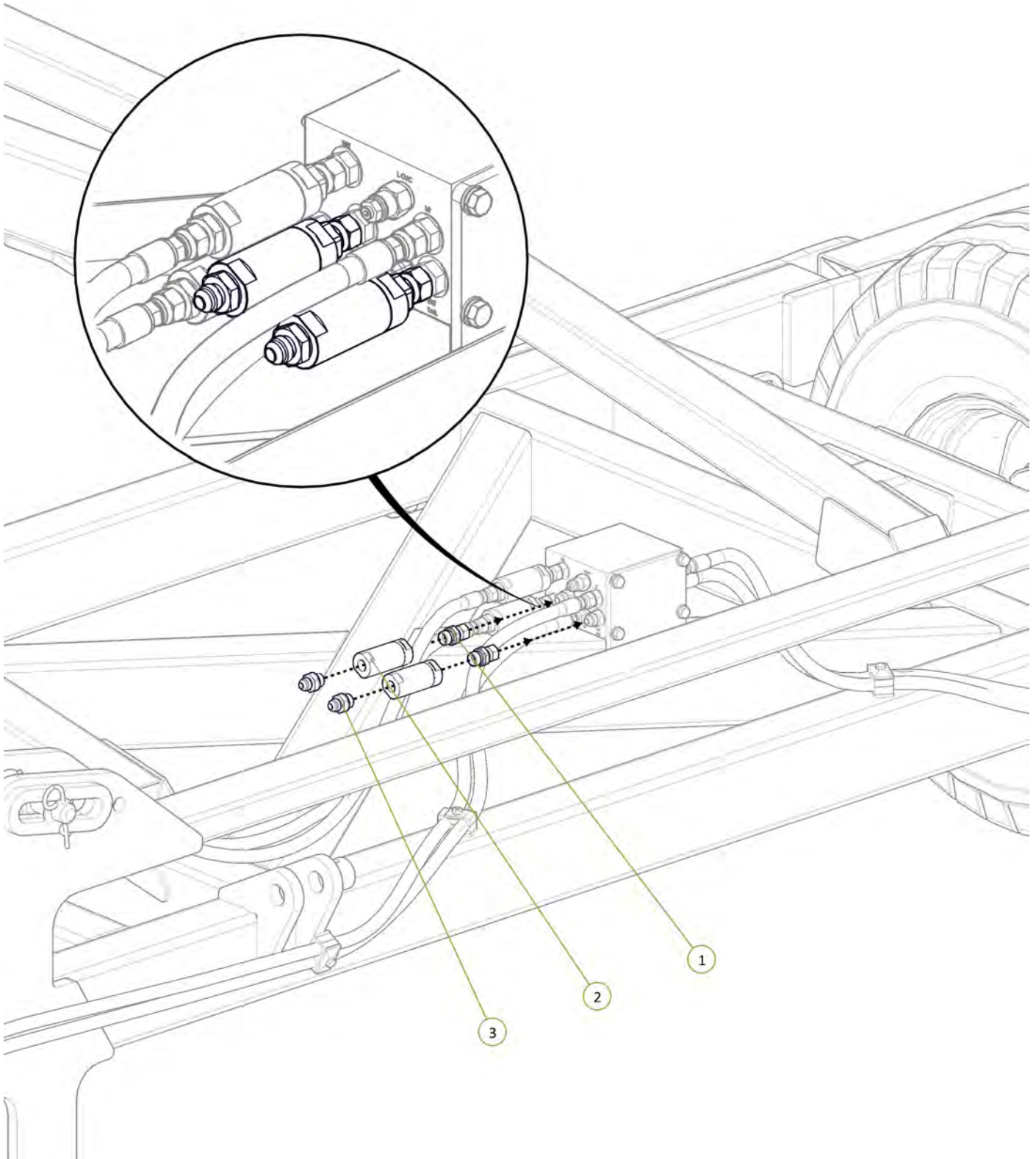
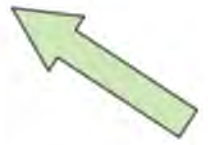


| Item No. | Description | Number | Qty |
|----------|----------------------------|------------------|-----|
| 1 | Hose Post Spring | 1601-CDB-00-0012 | 1 |
| 2 | Washer Flat M16 | 0231-F16 | 1 |
| 3 | Washer Spring M16 | 0231-S16 | 1 |
| 4 | M16 x 35 grade 8.8 zp Bolt | 0211-1635 | 1 |

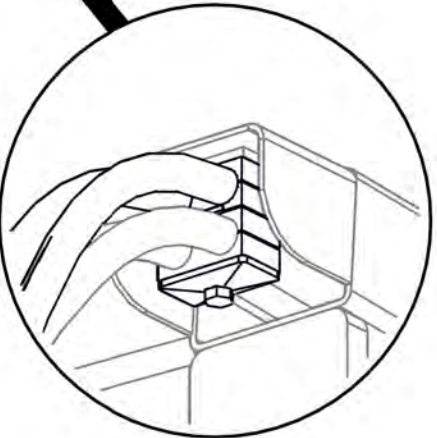
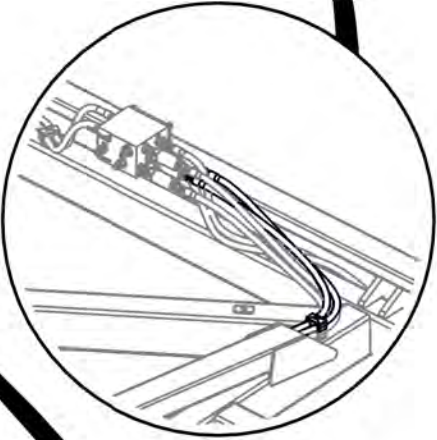
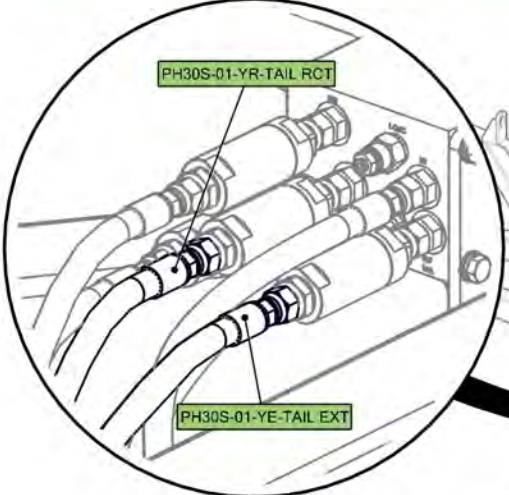
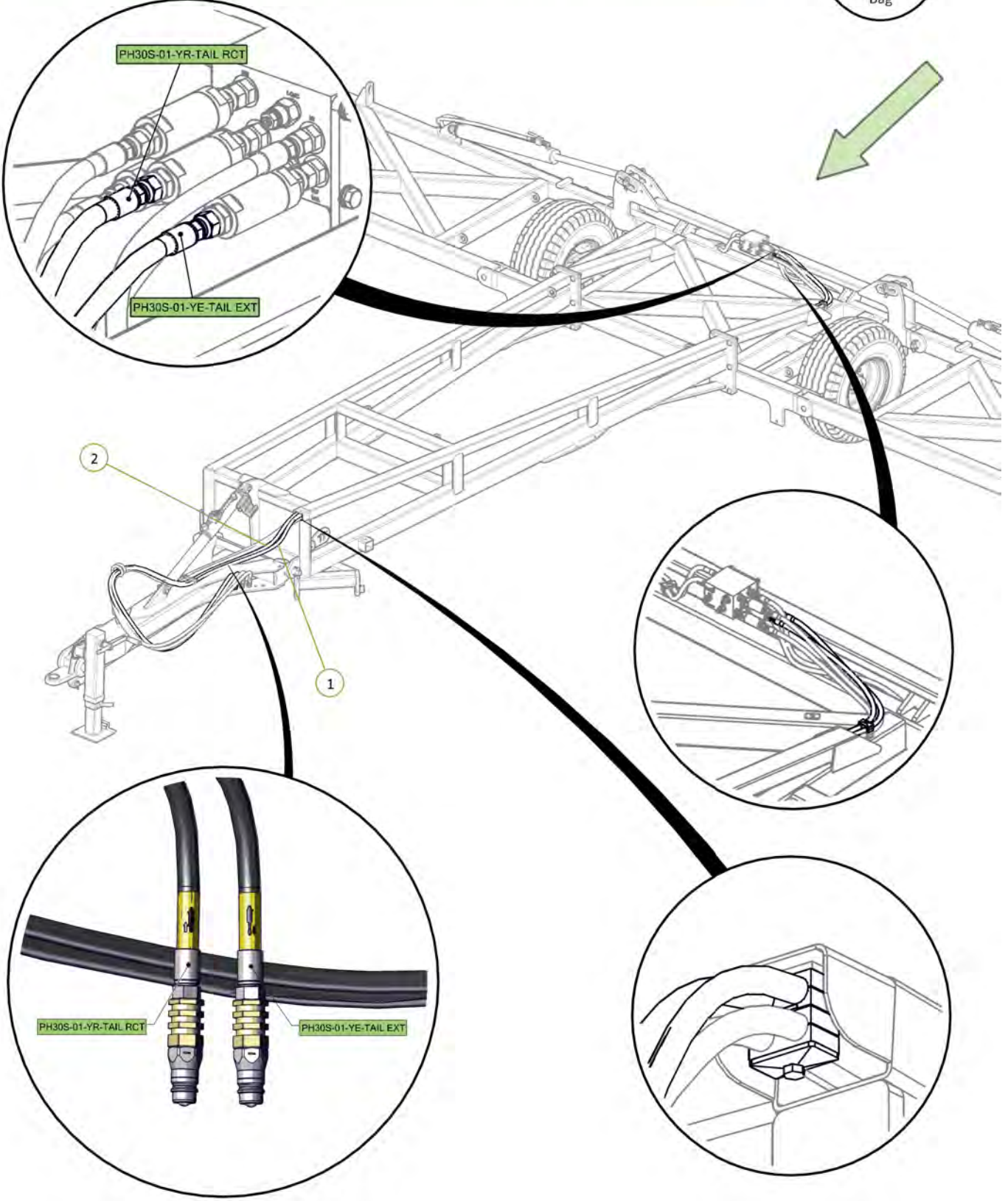
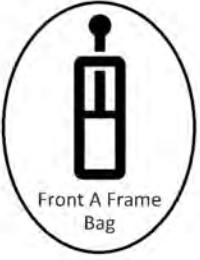


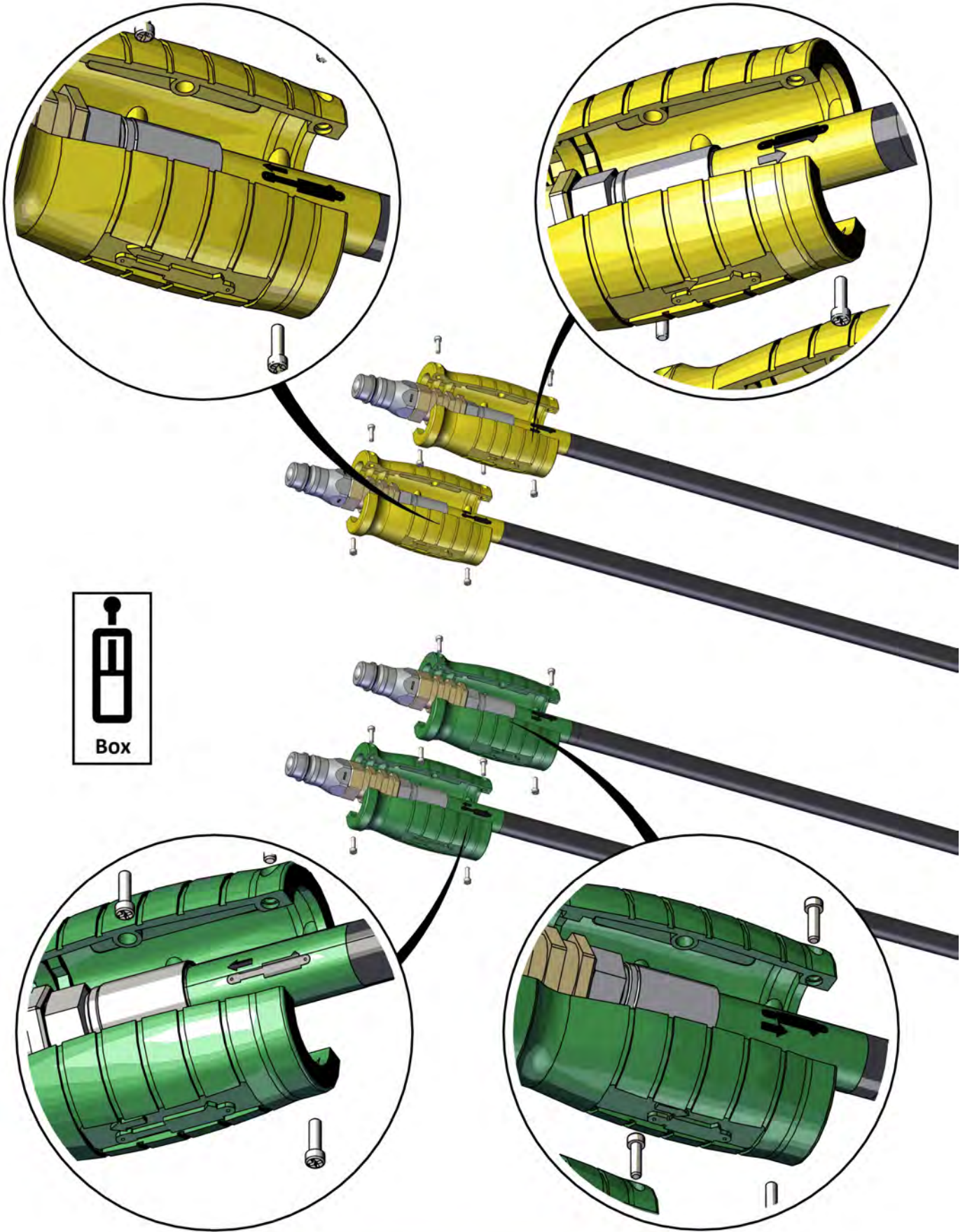


| Item No. | Description | Number | Qty |
|----------|---|----------------|-----|
| 1 | 1/2" BSPP Encapt Male 3/4" JIC Female Swive Adaptor | 0323-S71-0812 | 2 |
| 2 | In Line Hydraulic Oil Filter | 0343-924001261 | 2 |
| 3 | 1/2" BSPP Encapt Male 3/4" JIC Male Adaptor | 0323-S74-0812 | 2 |



| Item No. | Description | Number | Qty |
|----------|--|----------------------|-----|
| 1 | Tractor to Sequence Valve TAIL EXT Port fitted with Yellow Extend Decal | PH30S-01-YE-TAIL EXT | 1 |
| 2 | Tractor to Sequence Valve TAIL RET Port fitted with Yellow Retract Decal | PH30S-01-YR-TAIL RCT | 1 |



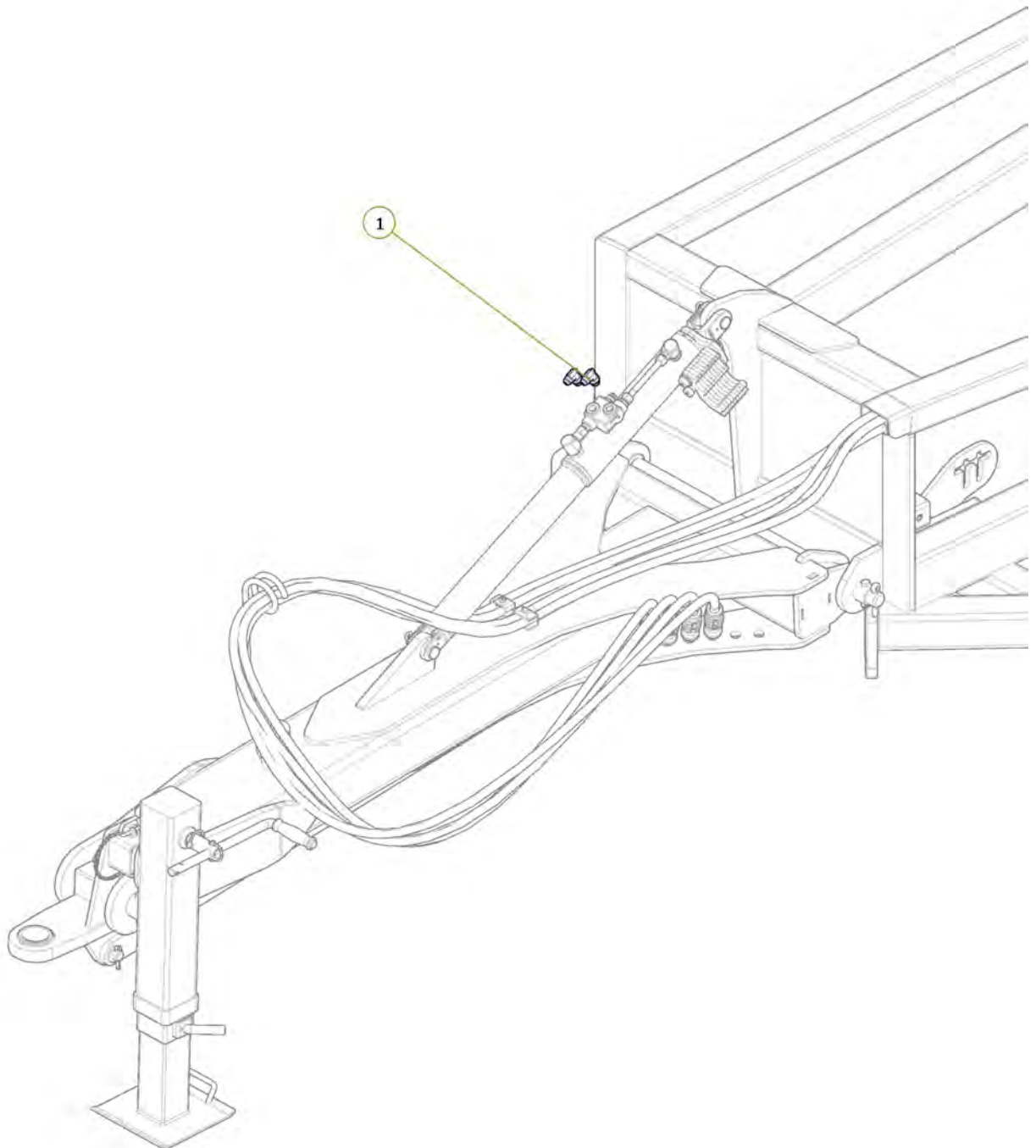
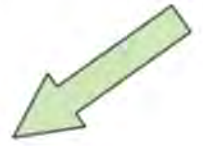


Hose grip handles fitted as per stickers on hoses

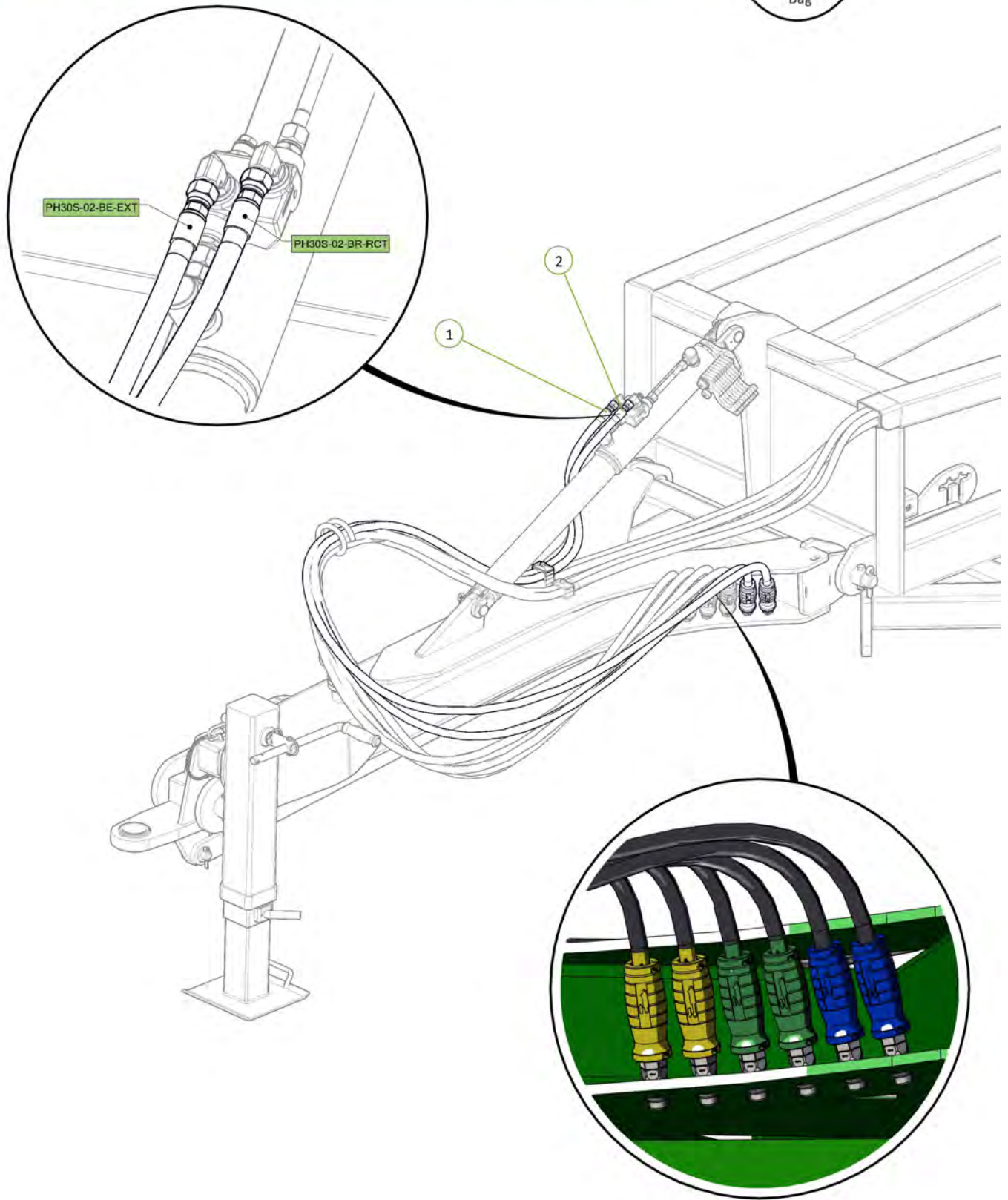
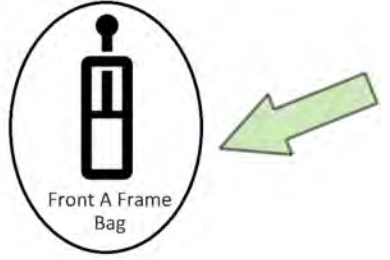


Signed _____ Date ____/____/____
 Unit Serial Number _____

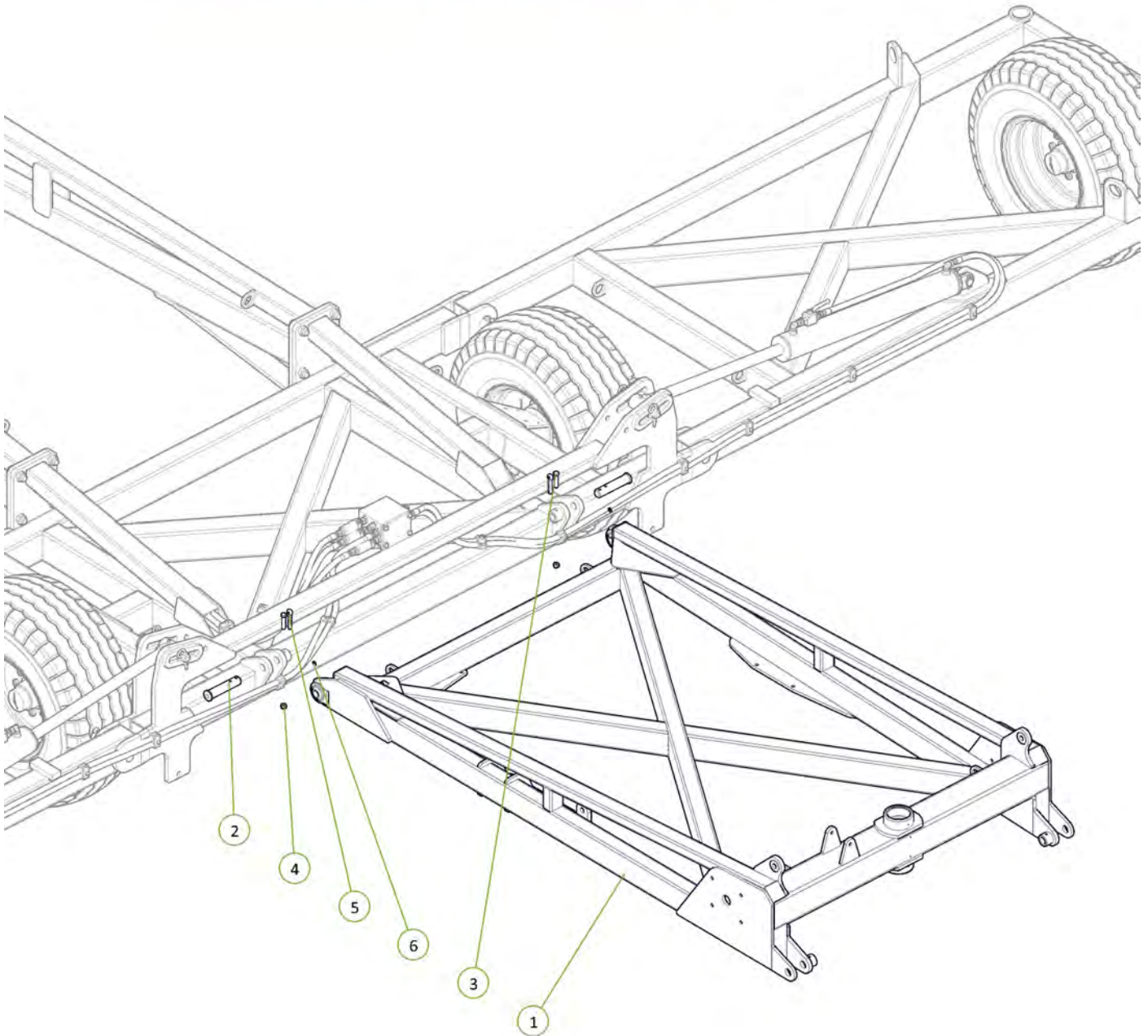
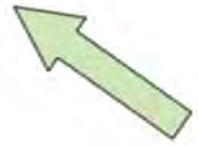
| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2 |



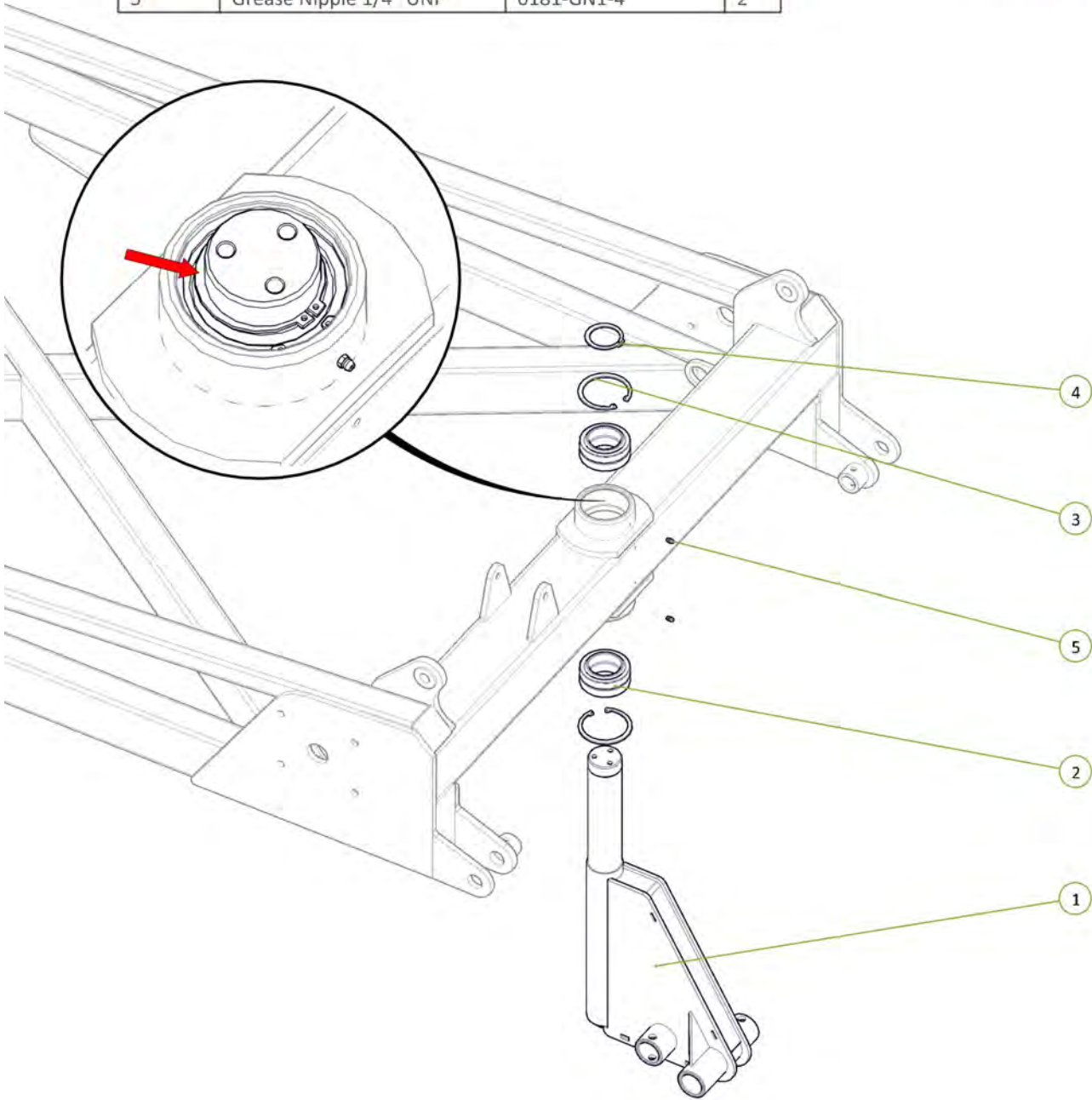
| Item No. | Description | Number | Qty |
|----------|---|-----------------|-----|
| 1 | Tractor to Front Lift Cylinder Extend Port fitted with Blue Extend Grip | PH30S-02-BE-EXT | 1 |
| 2 | Tractor to Front Lift Cylinder Retract Port fitted with Blue Retract Grip | PH30S-02-BR-RCT | 1 |



| Item No. | Description | Number | Qty |
|----------|----------------------------|----------------|-----|
| 1 | 30' Rear A-Frame | 0830-03 | 1 |
| 2 | Tail Frame Pivot pin | 0801-10-08-175 | 2 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 2 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 2 |
| 5 | Cotter Pin M13 x 63 | 0261-PINC1363 | 2 |
| 6 | Grease Nipple 1/4" UNF | 0181-GN1-4 | 2 |



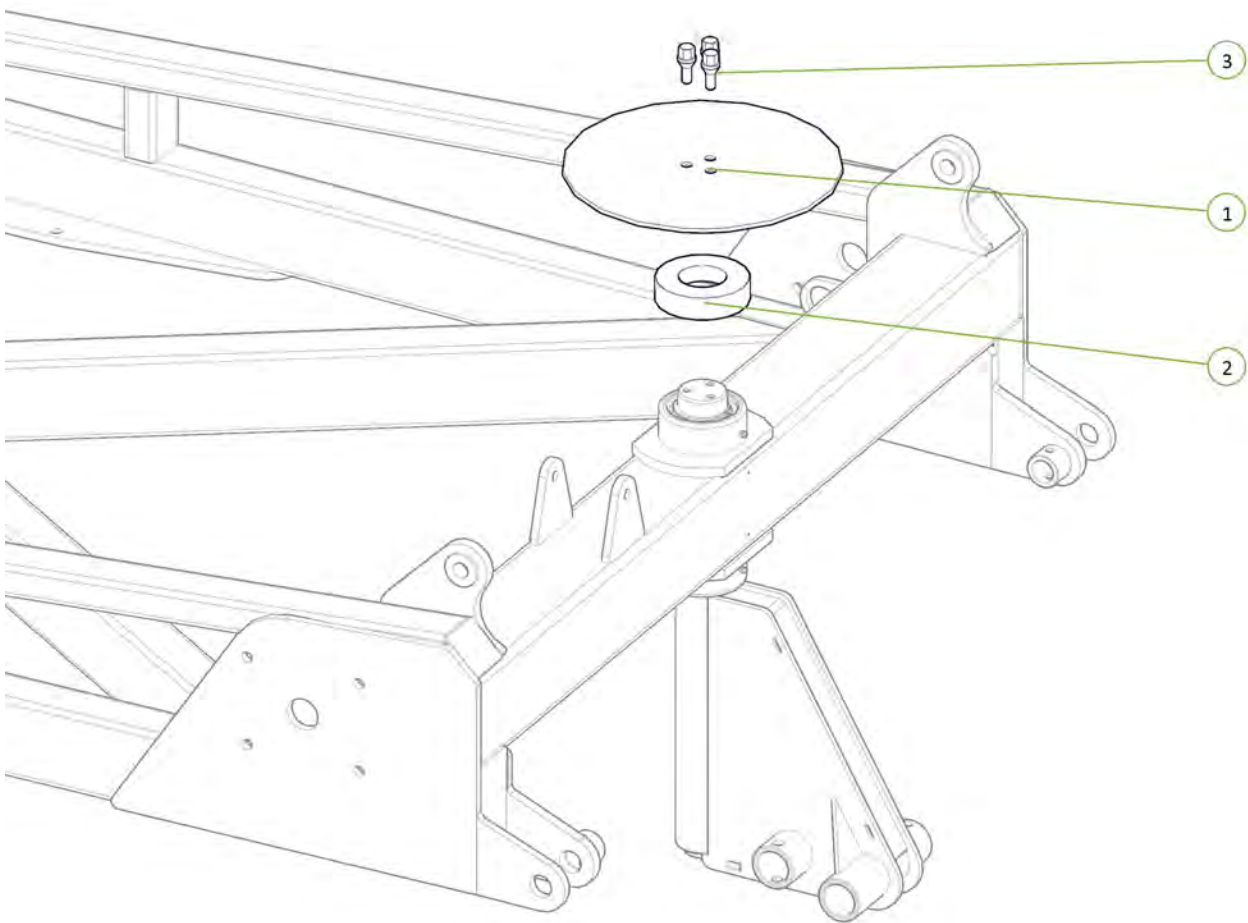
| Item No. | Description | Number | Qty |
|----------|------------------------------|--------------------|-----|
| 1 | 70mm Jockey Wheel | 0810-11-70 | 1 |
| 2 | Plain Spherical Bearing 70mm | 0113-GE70DO-2RS | 2 |
| 3 | Circlip Internal 105mm | 0171-J105 | 2 |
| 4 | Circlip External 70mm | 0172-D1400-0700AAP | 1 |
| 5 | Grease Nipple 1/4" UNF | 0181-GN1-4 | 2 |




Circlip fitted to Jockey Wheel shaft 

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

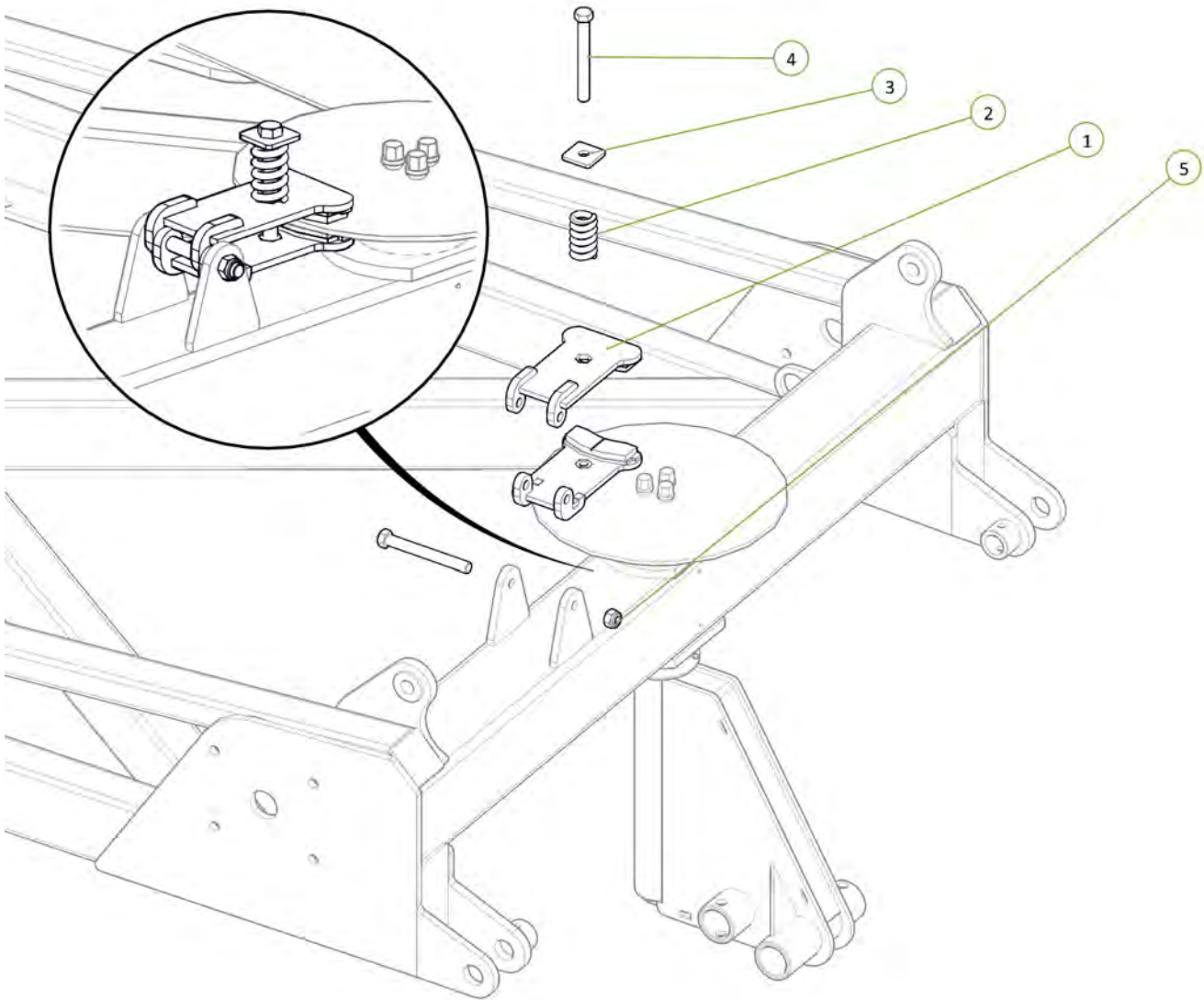
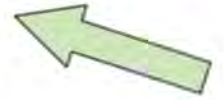
| Item No. | Description | Number | Qty |
|----------|---|----------------|-----|
| 1 | Brake Disc | 1600-405 | 1 |
| 2 | Bolt on Brake Disc Dust Cap 70 ID x 135 OD x 35 | 1601-DC7013535 | 1 |
| 3 | M12 x 24 Wheel Bolt | 0216-WB1224 | 3 |



Wheel bolts torqued to 65fl-lb / 88Nm 

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

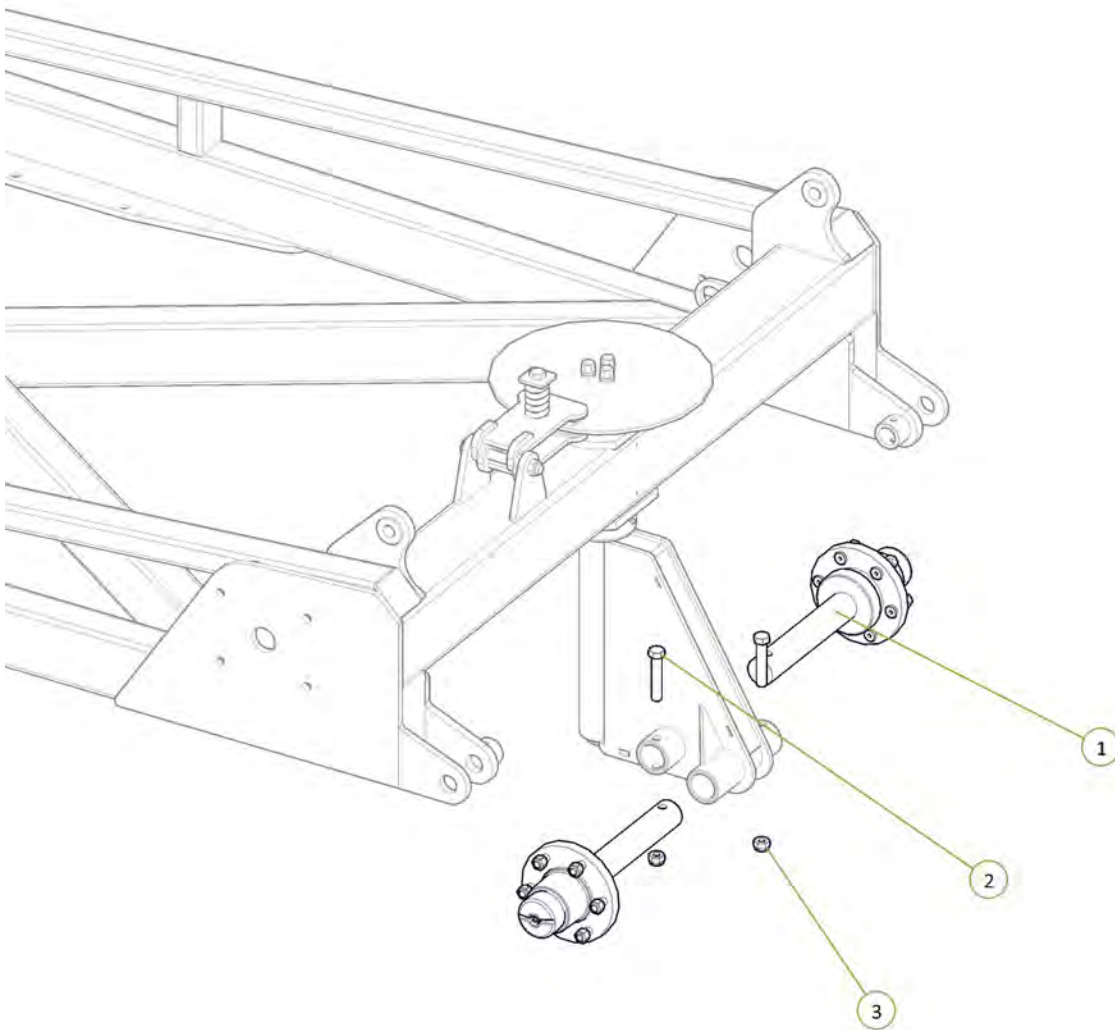
| Item No. | Description | Number | Qty |
|----------|-----------------------------|--------------|-----|
| 1 | Jockey Wheel Brake Caliper | 0810-12CAL | 1 |
| 2 | Brake Compression Spring | 0801-KE009 | 1 |
| 3 | Washer Square M16 x 50 x 5 | 0231-SQ16505 | 1 |
| 4 | M16 x 150 grade 8.8 zp Bolt | 0211-16150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

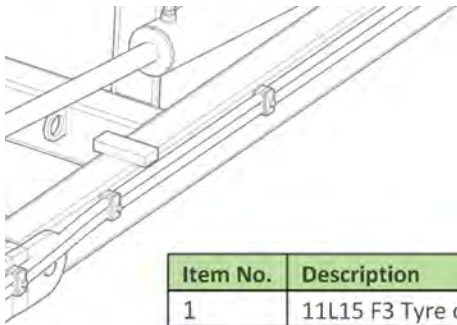


Check tension of brake caliper spring (50-63mm road transport) ○

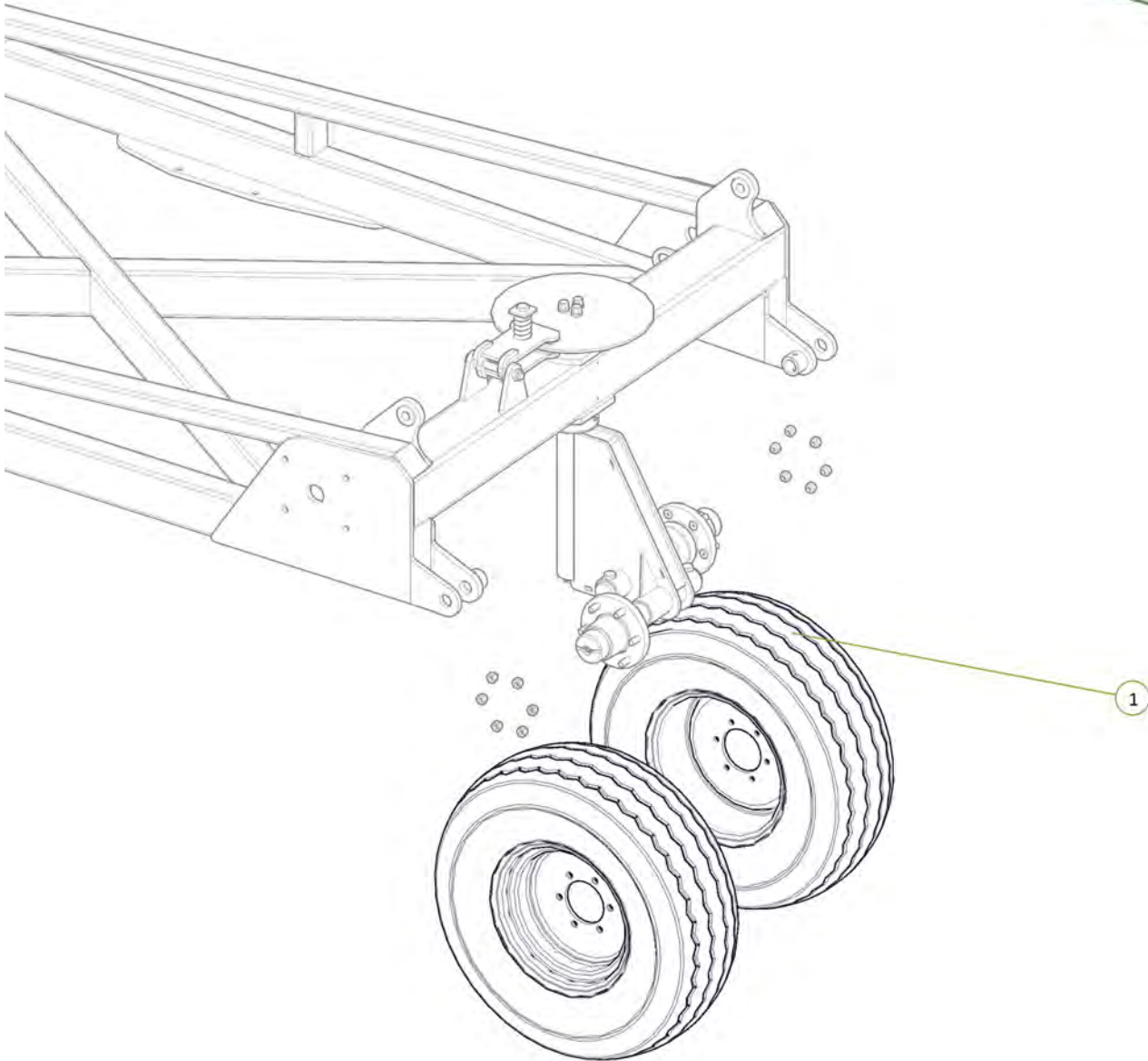
Signed _____ Date ____/____/____
 Unit Serial Number: _____

| Item No. | Description | Number | Qty |
|----------|---------------------------------|----------------|-----|
| 1 | Axle 2"R 3T 6 on 6" PCD 330 OHF | 0733-K5083T66S | 2 |
| 2 | M16 x 90 grade 8.8 zp Bolt | 0211-1690 | 2 |
| 3 | Nyloc Nut M16 | 0221-NYL16 | 2 |





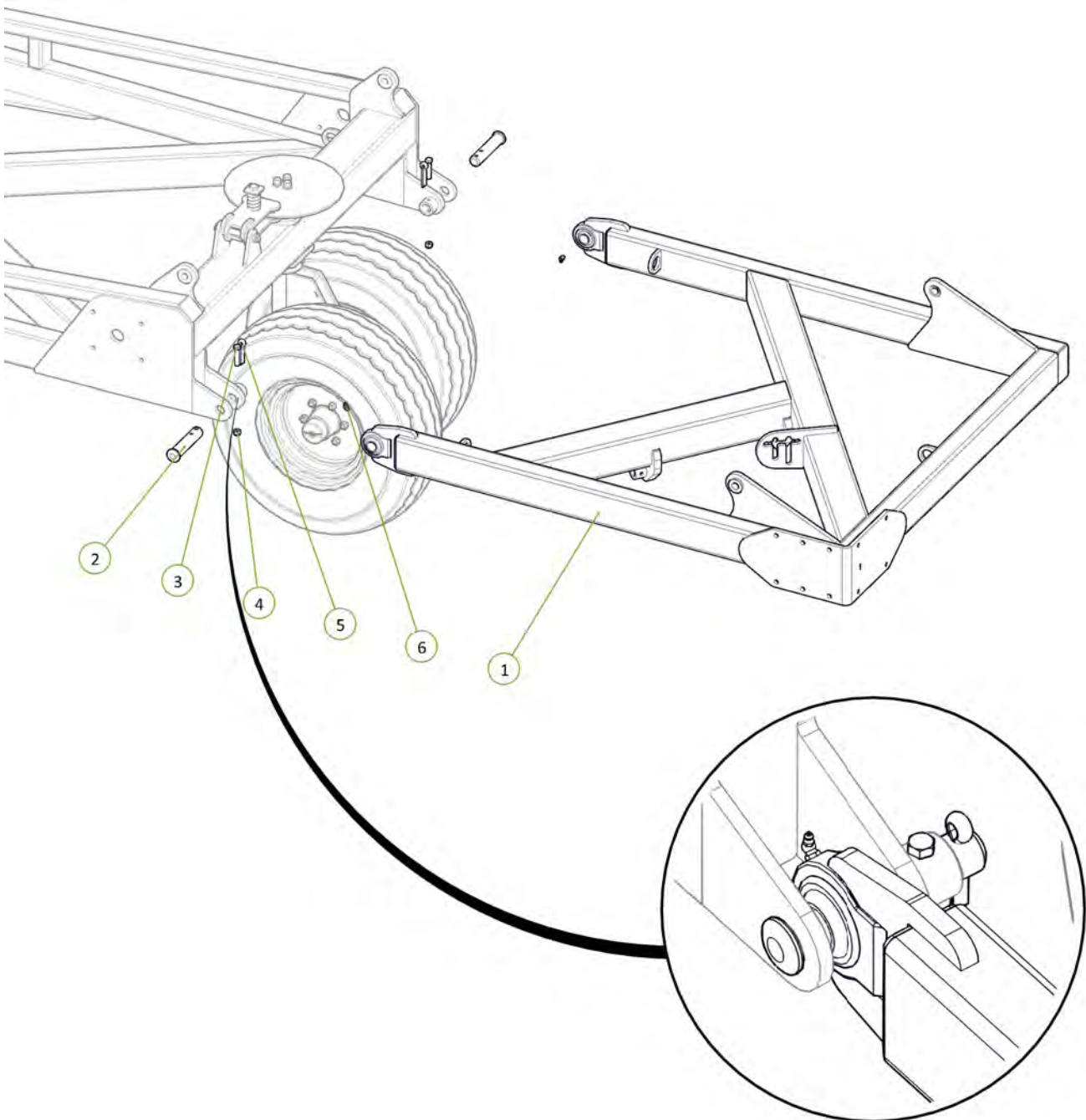
| Item No. | Description | Number | Qty |
|----------|-----------------------------------|------------|-----|
| 1 | 11L15 F3 Tyre on 6 on 6" Stud Rim | 0751-11L15 | 2 |



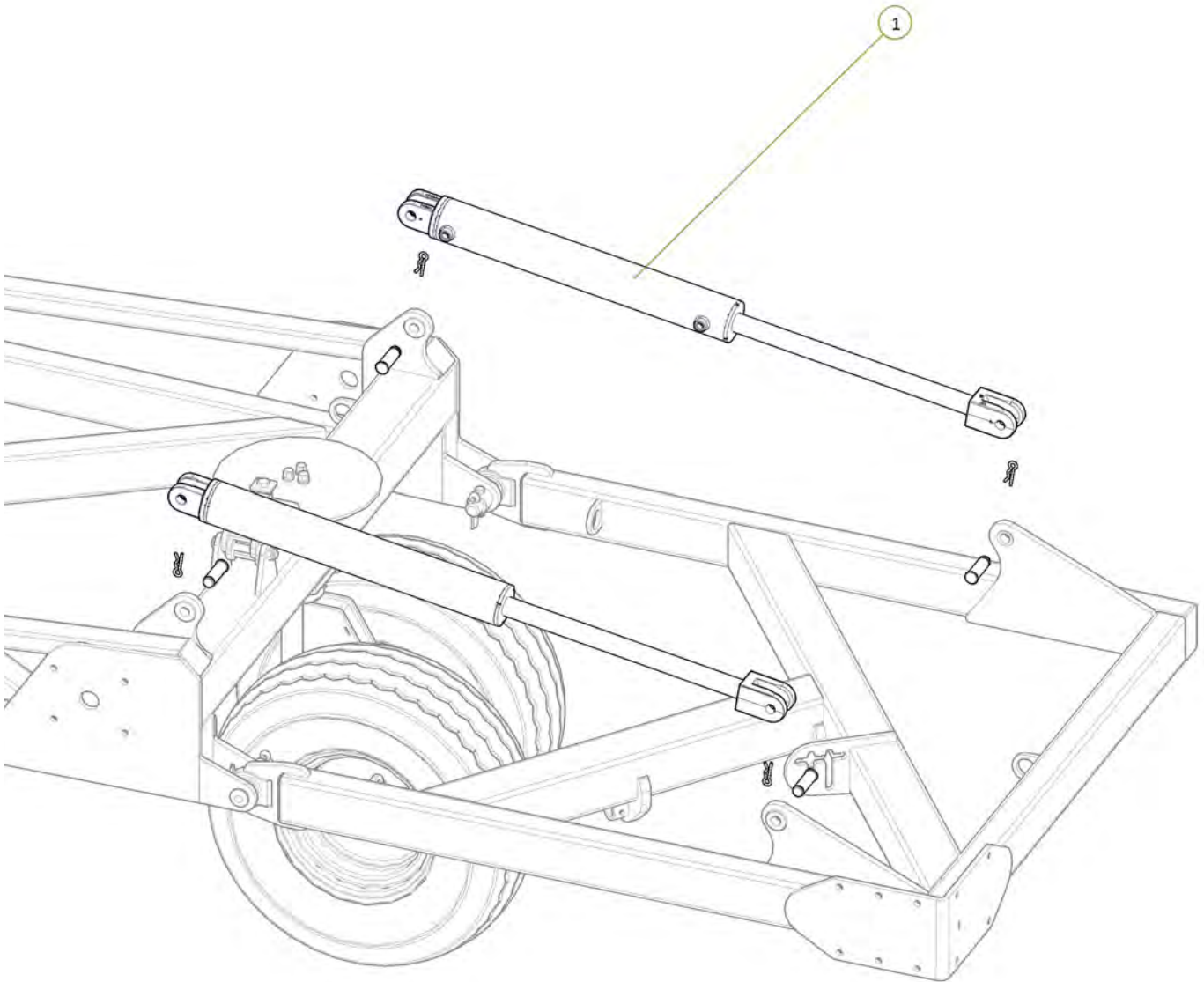
All wheel nuts tightened to 90ft-lb / 125Nm

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

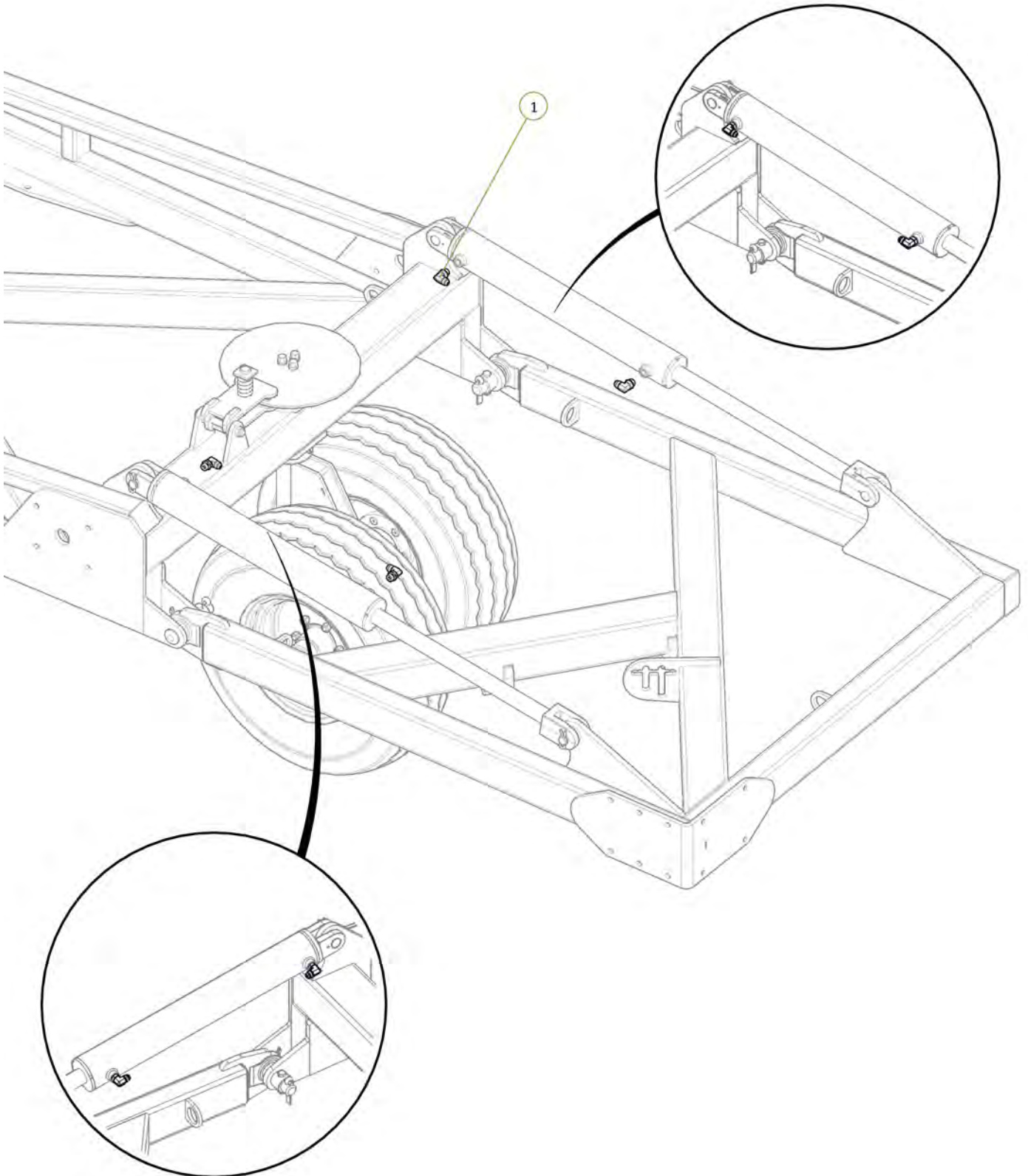
| Item No. | Description | Number | Qty |
|----------|----------------------------|----------------|-----|
| 1 | Extended Tip Rear Tail | 0810-10E | 1 |
| 2 | Tail Frame Pivot pin | 0801-10-08-175 | 2 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 2 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 2 |
| 5 | Cotter Pin M13 x 63 | 0261-PINC1363 | 2 |
| 6 | Grease Nipple 1/4" UNF 45° | 0181-GN1/445 | 2 |



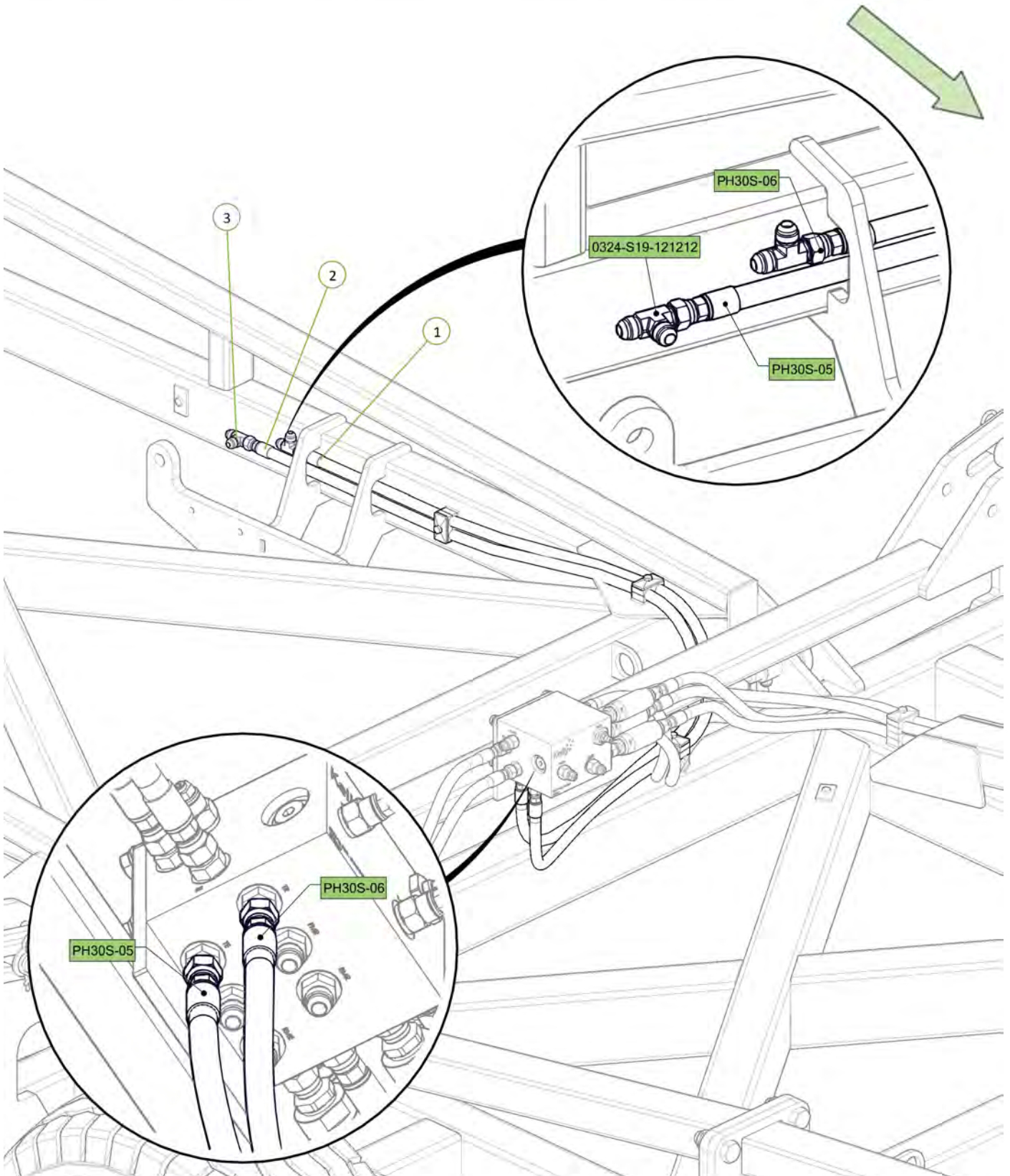
| Item No. | Description | Number | Qty |
|----------|---|-------------|-----|
| 1 | 3.5" Bore 24" Stroke 1.75" Rod Hydraulic Cylinder | 0311-3524SP | 2 |



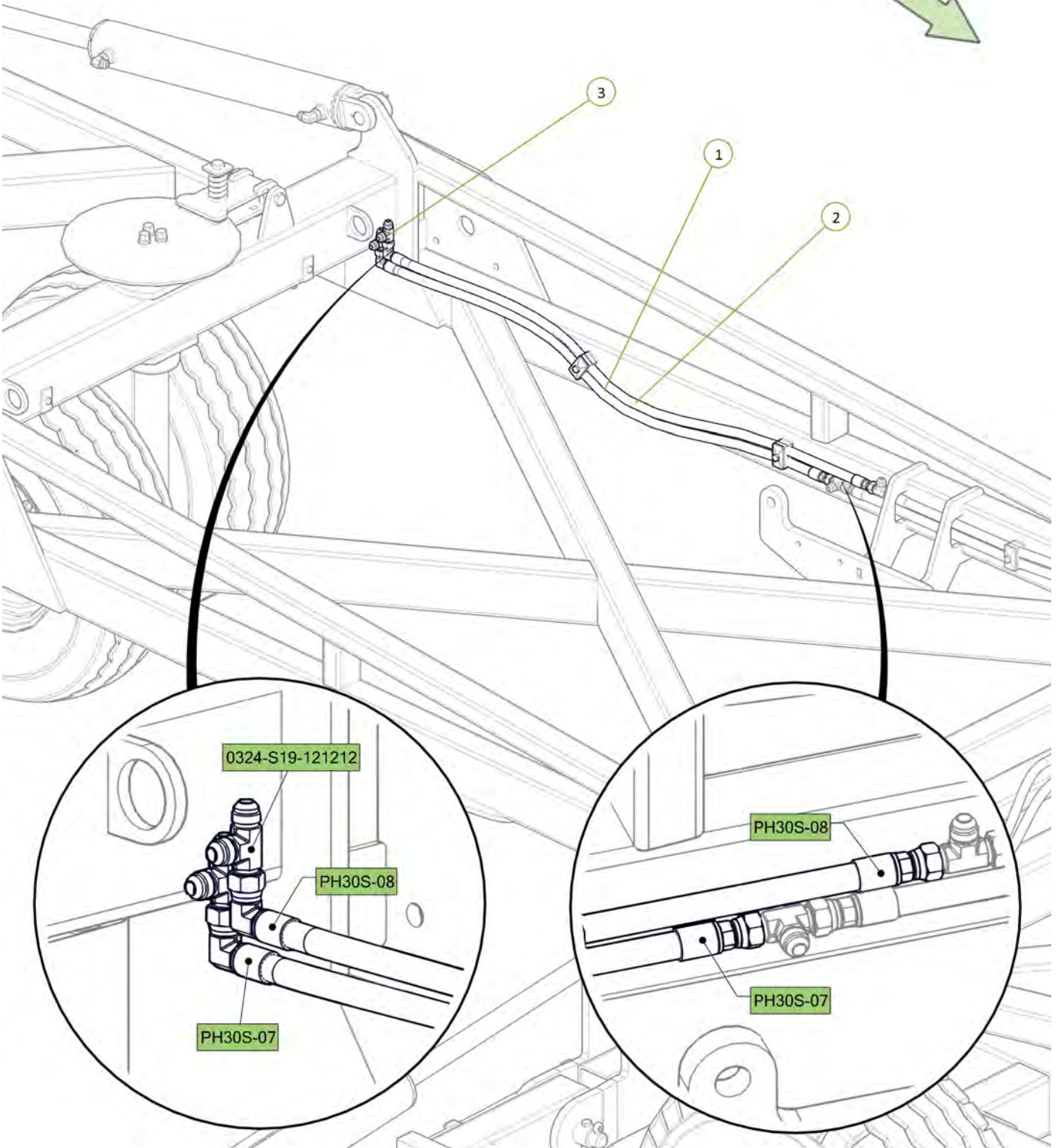
| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 4 |



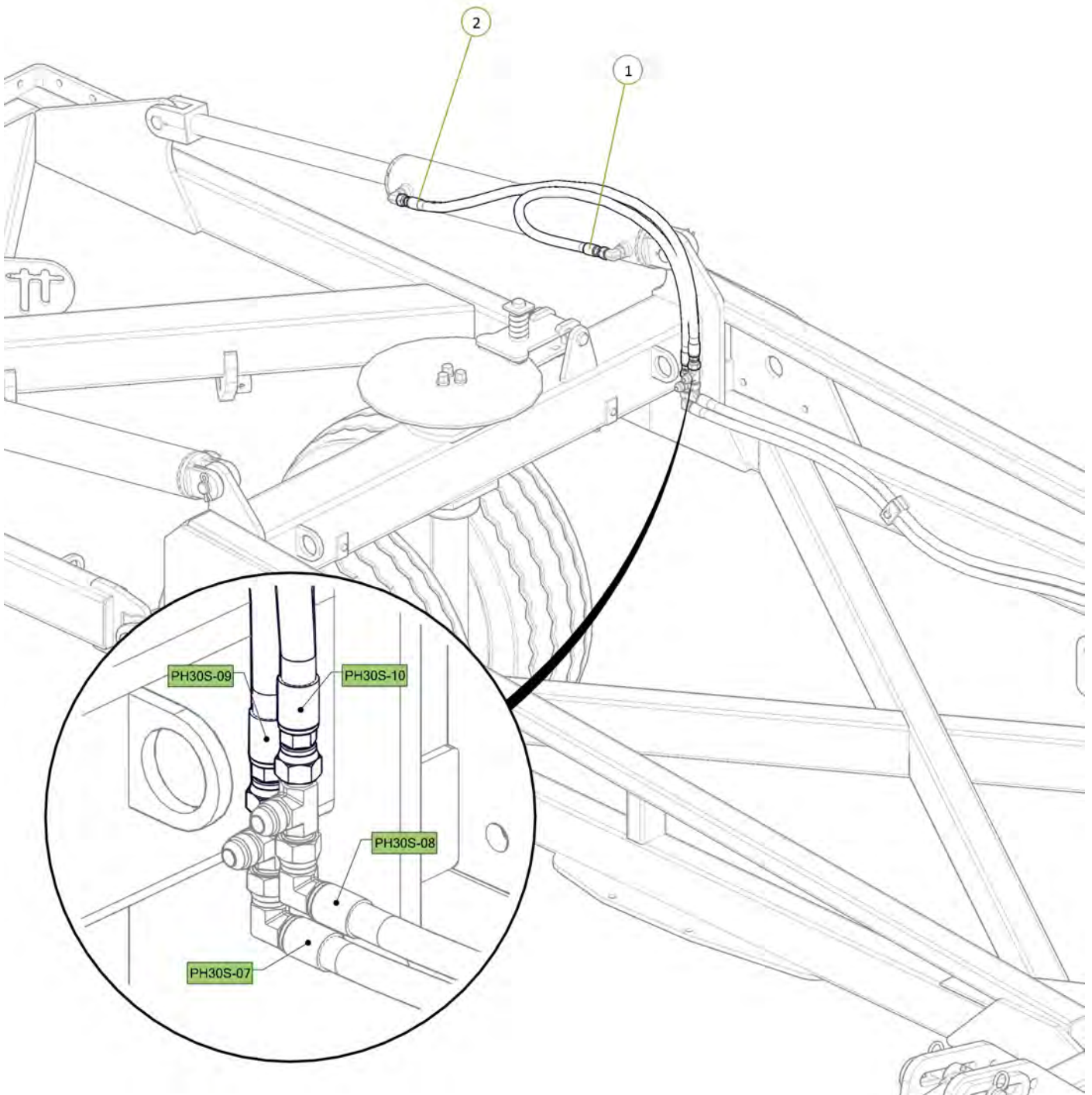
| Item No. | Description | Number | Qty |
|----------|---|-----------------|-----|
| 1 | Valve TE Port to Tail Extend Tee | PH30S-05 | 1 |
| 2 | Valve TR Port to Tail Retract Tee | PH30S-06 | 1 |
| 3 | 3/4" JIC Male Tee 3/4" JIC Male Tee 3/4" JIC Male Tee | 0324-S19-121212 | 2 |



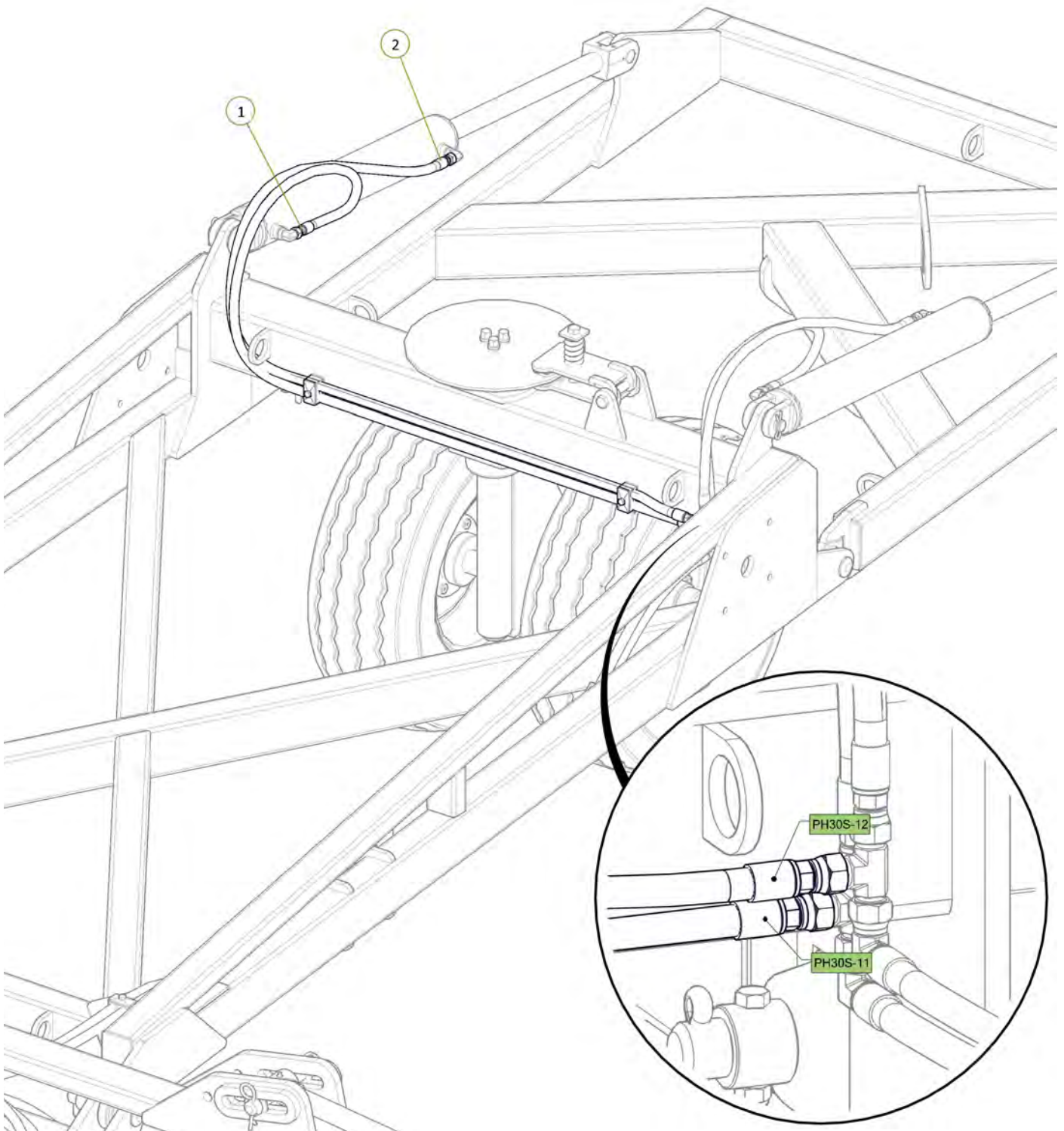
| Item No. | Description | Number | Qty |
|----------|---|-----------------|-----|
| 1 | Tail Extend Tee to Rear Extend Tee | PH30S-07 | 1 |
| 2 | Tail Retract Tee to Rear Retract Tee | PH30S-08 | 1 |
| 3 | 3/4" JIC Male Tee 3/4" JIC Male Tee 3/4" JIC Male Tee | 0324-S19-121212 | 2 |

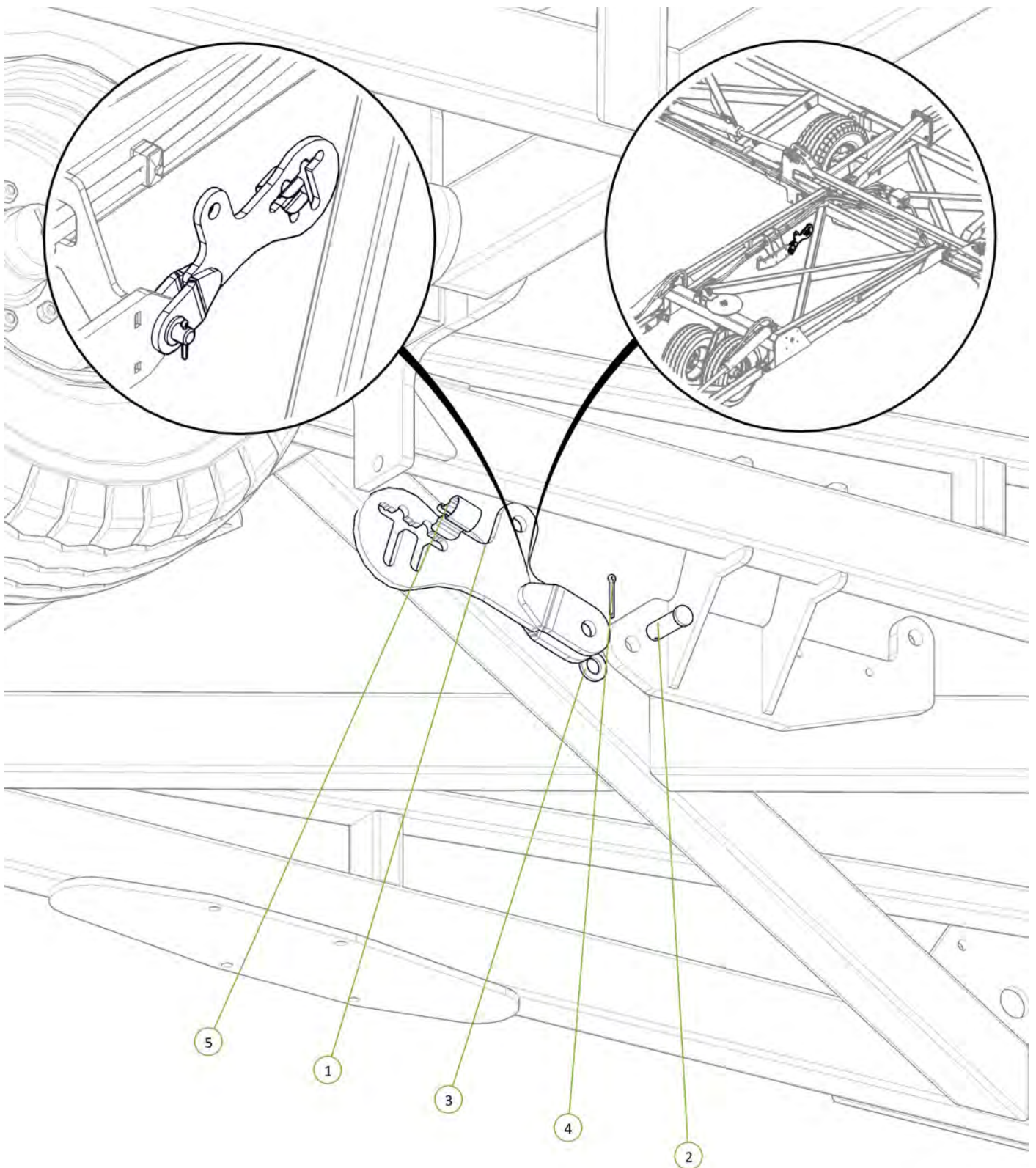


| Item No. | Description | Number | Qty |
|----------|---|----------|-----|
| 1 | Rear Extend Tee to Rear Port LH Tail Cylinder | PH30S-09 | 1 |
| 2 | Rear Retract Tee to Rod Port Tail LH Cylinder | PH30S-10 | 1 |



| Item No. | Description | Number | Qty |
|----------|---|----------|-----|
| 1 | Rear Extend Tee to Rear Port RH Tail Cylinder | PH30S-11 | 1 |
| 2 | Rear Retract Tee to Rod Port RH Tail Cylinder | PH30S-12 | 1 |

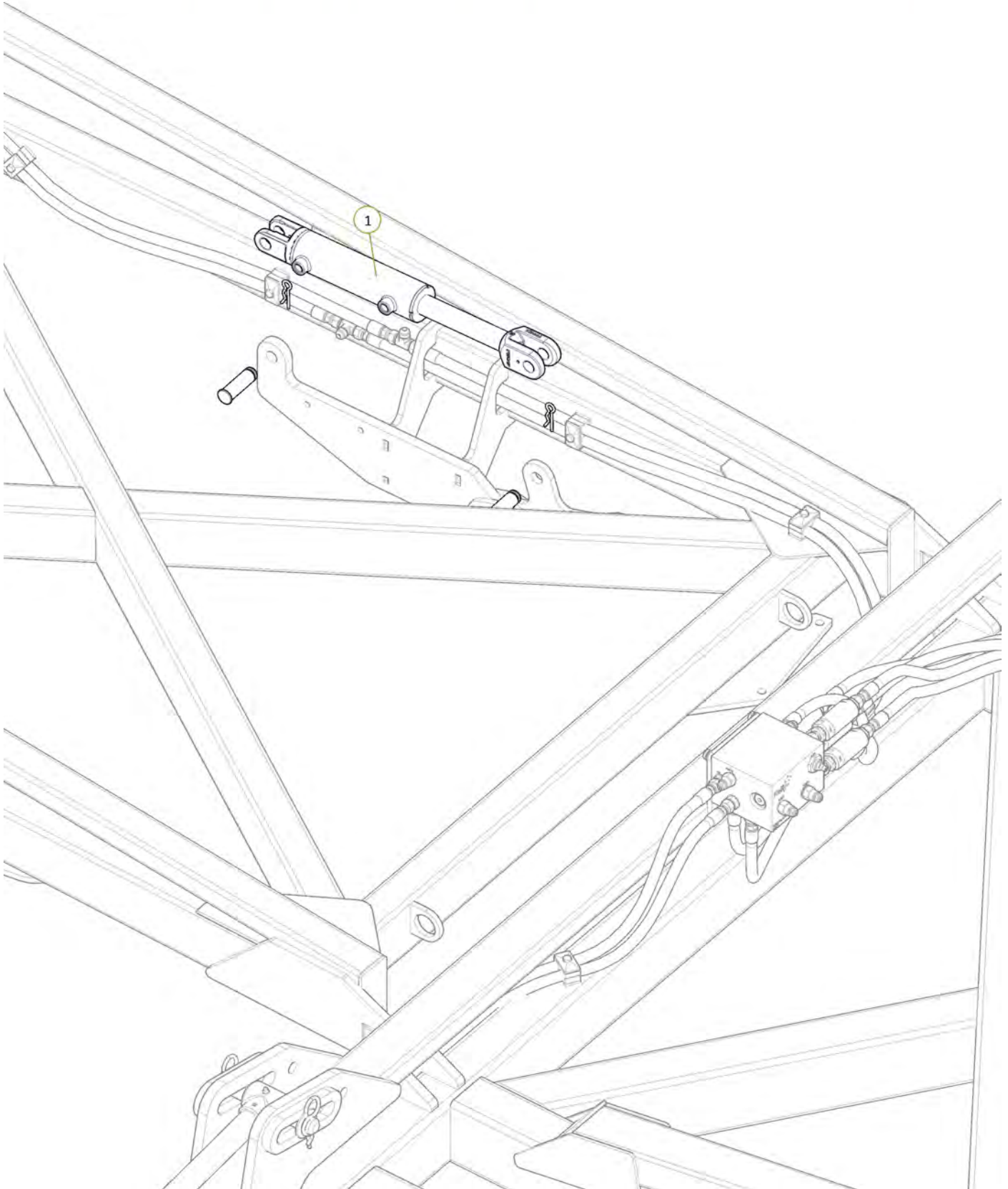




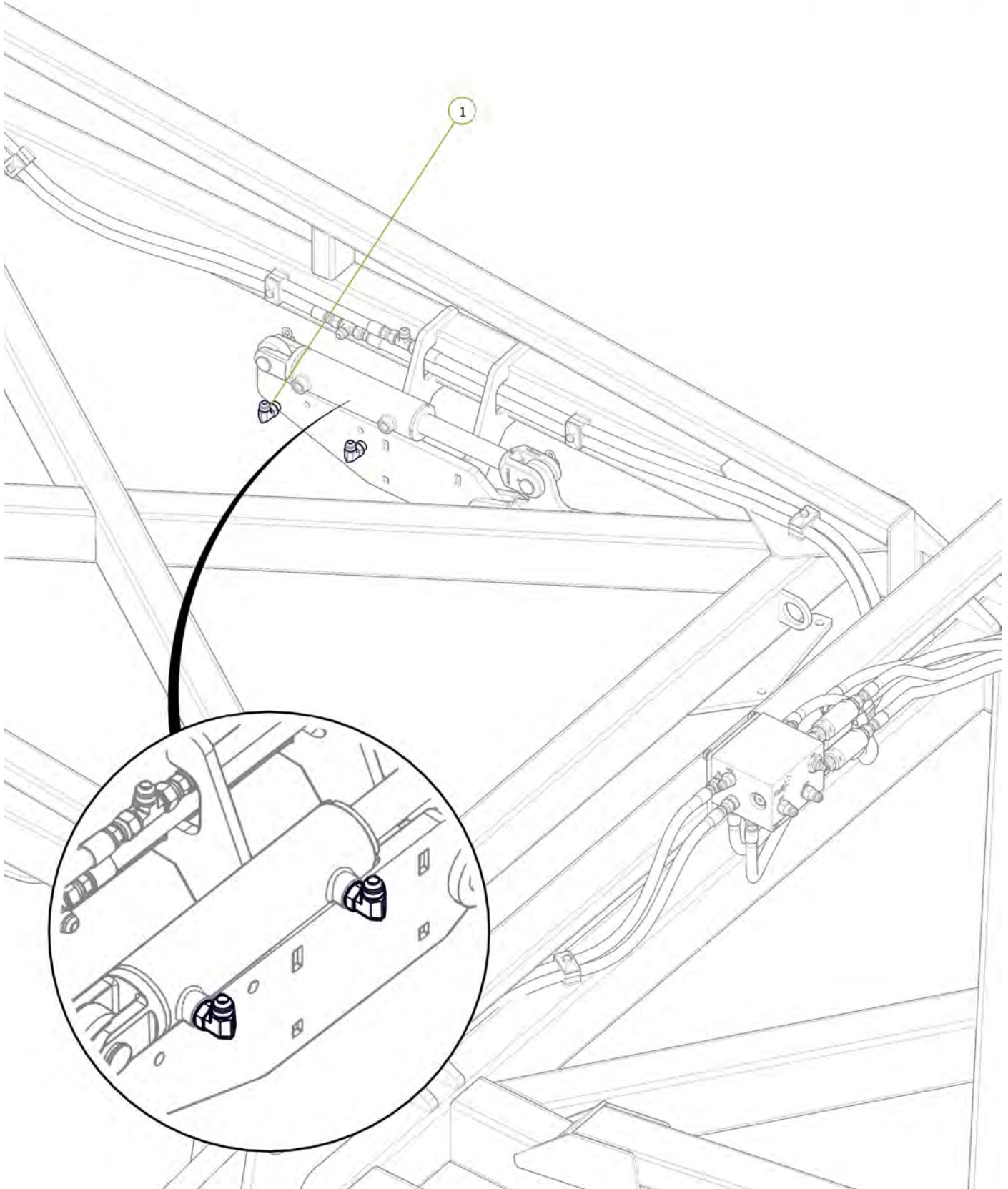
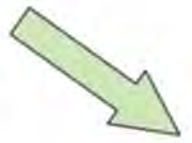
| Item No. | Description | Number | Qty |
|----------|--------------------------------|---------------|-----|
| 1 | 30' Short Module Lift Arm | 0810-107 | 1 |
| 2 | Clevis Pin 25mm x 75mm | 0801-KE0307-1 | 1 |
| 3 | Washer Flat M24 | 0231-F24 | 1 |
| 4 | Cotter Pin M5 x 50 | 0261-PINC550 | 1 |
| 5 | Height Adjustor Retaining Clip | 0801-KE014 | 1 |



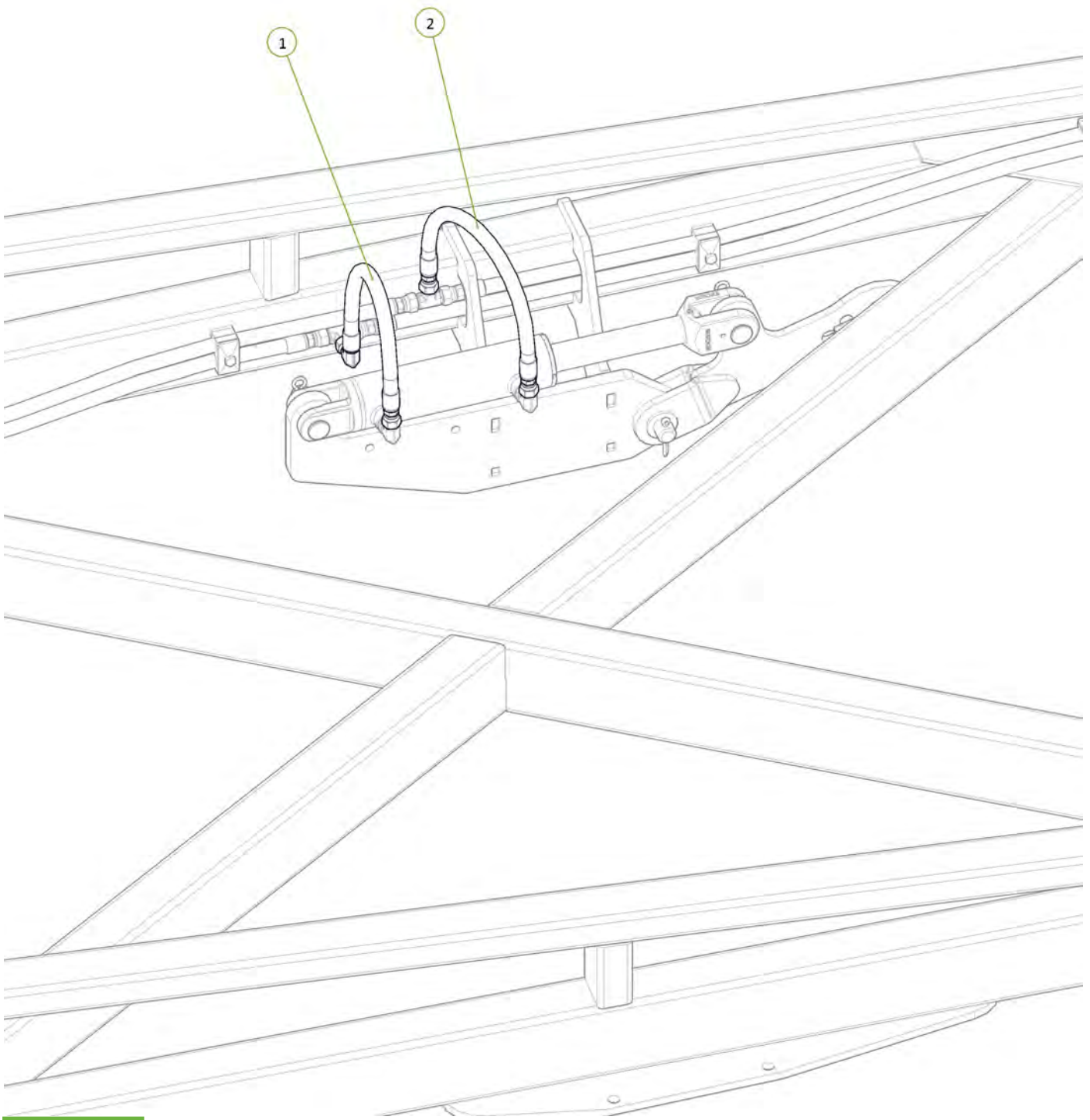
| Item No. | Description | Number | Qty |
|----------|---|------------|-----|
| 1 | 2.5" Bore x 6" Stroke 1.5" Rod Side Port Cylinder | 0311-256SP | 1 |



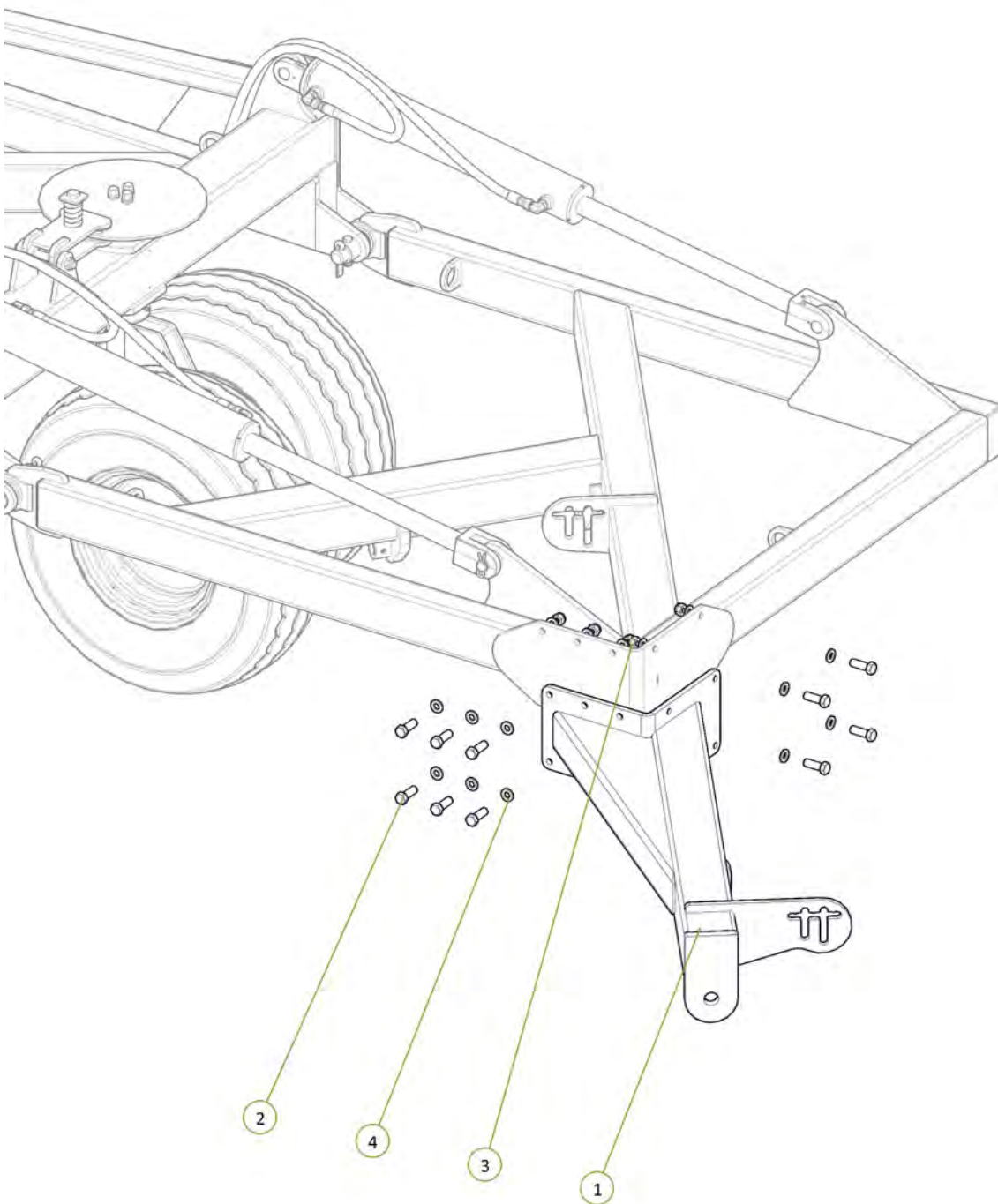
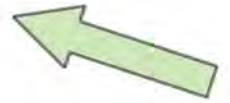
| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2 |



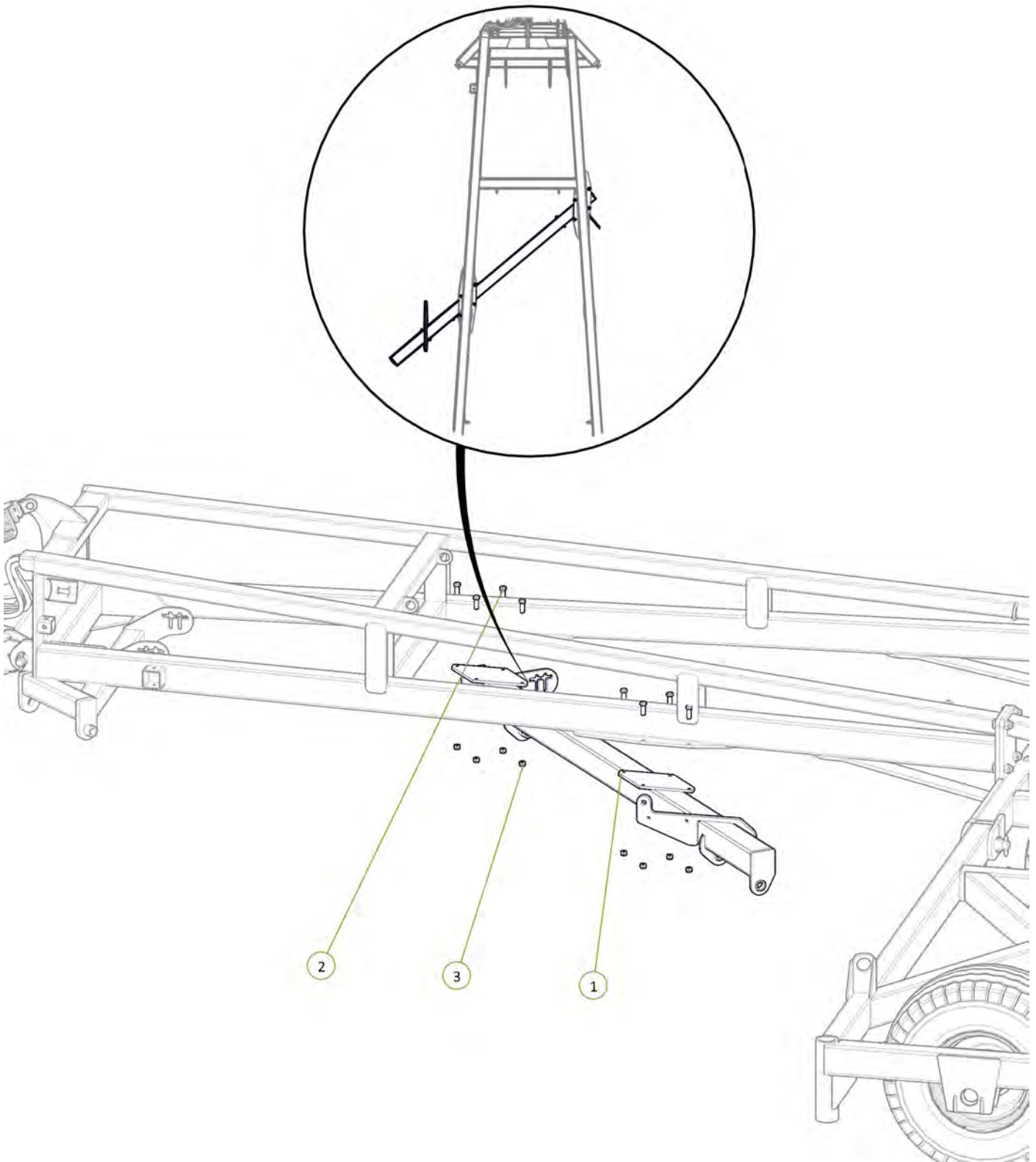
| Item No. | Description | Number | Qty |
|----------|--|----------|-----|
| 1 | Tail Extend Tee to Rear Port Left Rear Module Cylinder | PH30S-13 | 1 |
| 2 | Tail Retract Tee to Rod Port Left Rear Module Cylinder | PH30S-14 | 1 |



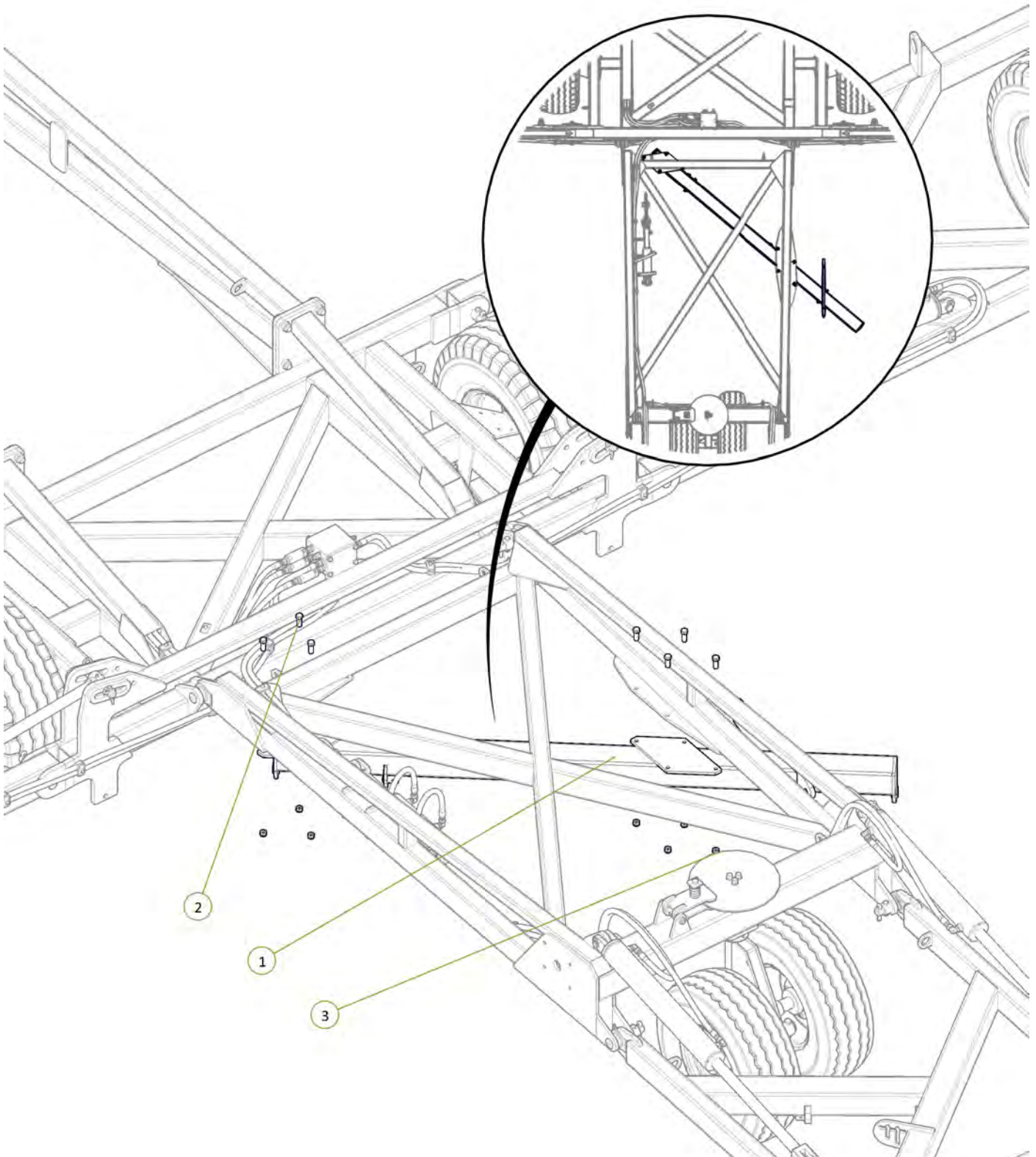
| Item No. | Description | Number | Qty |
|----------|-------------------------------|------------|-----|
| 1 | Extended Tip Tail Bolt On Tip | 0810-10ET | 1 |
| 2 | M16 x 50 grade 8.8 zp Bolt | 0211-1650 | 10 |
| 3 | Nyloc Nut M16 | 0221-NYL16 | 10 |
| 4 | Washer Flat M16 | 0231-F16 | 20 |



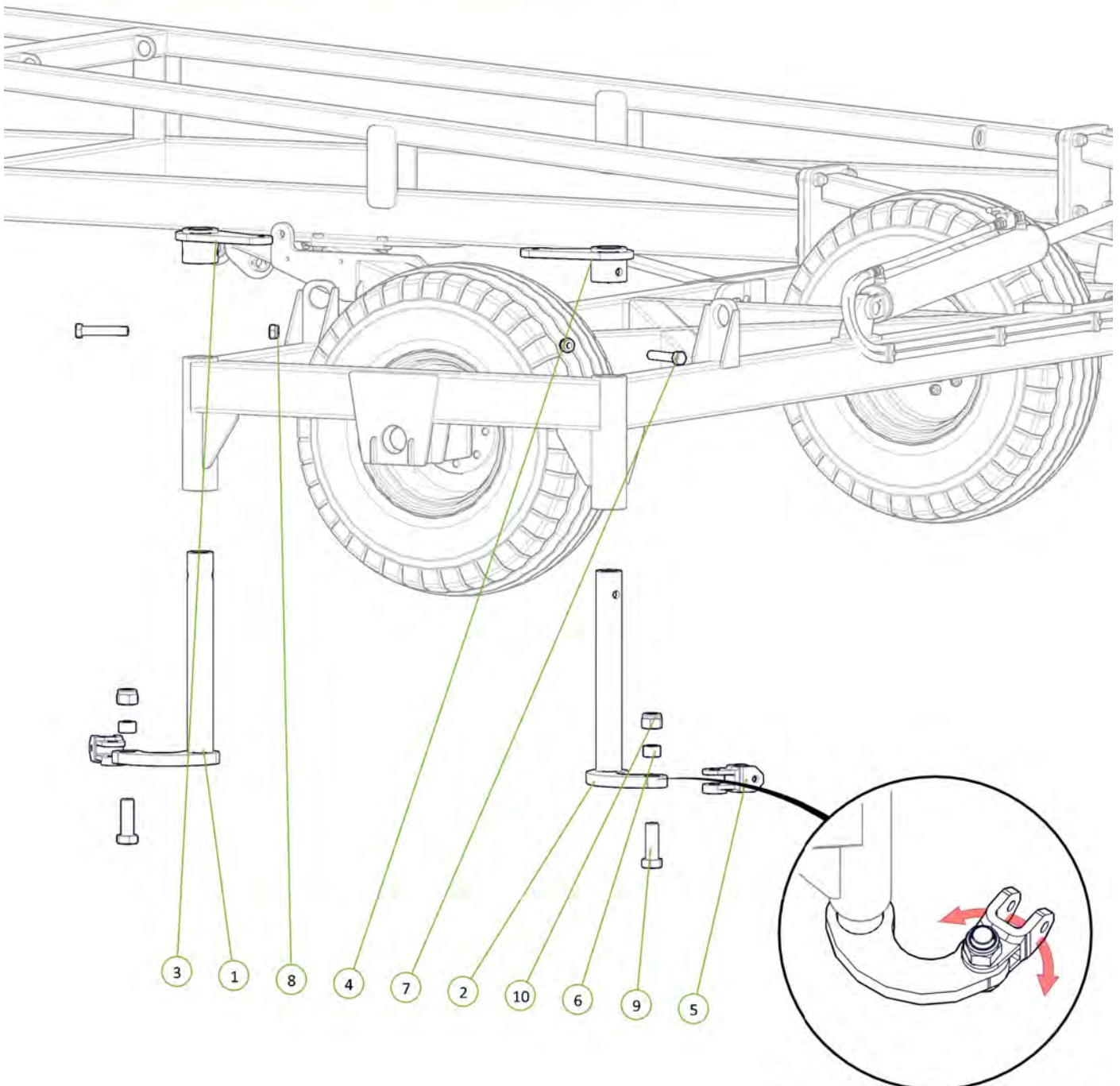
| Item No. | Description | Number | Qty |
|----------|----------------------------|-----------------------|-----|
| 1 | 30' Front Module | fromparent+0800-125.3 | 1 |
| 2 | M16 x 50 grade 8.8 zp Bolt | 0211-1650 | 8 |
| 3 | Nyloc Nut M16 | 0221-NYL16 | 8 |



| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | 30' Front Module | 0810-29-30 | 1 |
| 2 | M16 x 50 grade 8.8 zp Bolt | 0211-1650 | 7 |
| 3 | Nyloc Nut M16 | 0221-NYL16 | 7 |

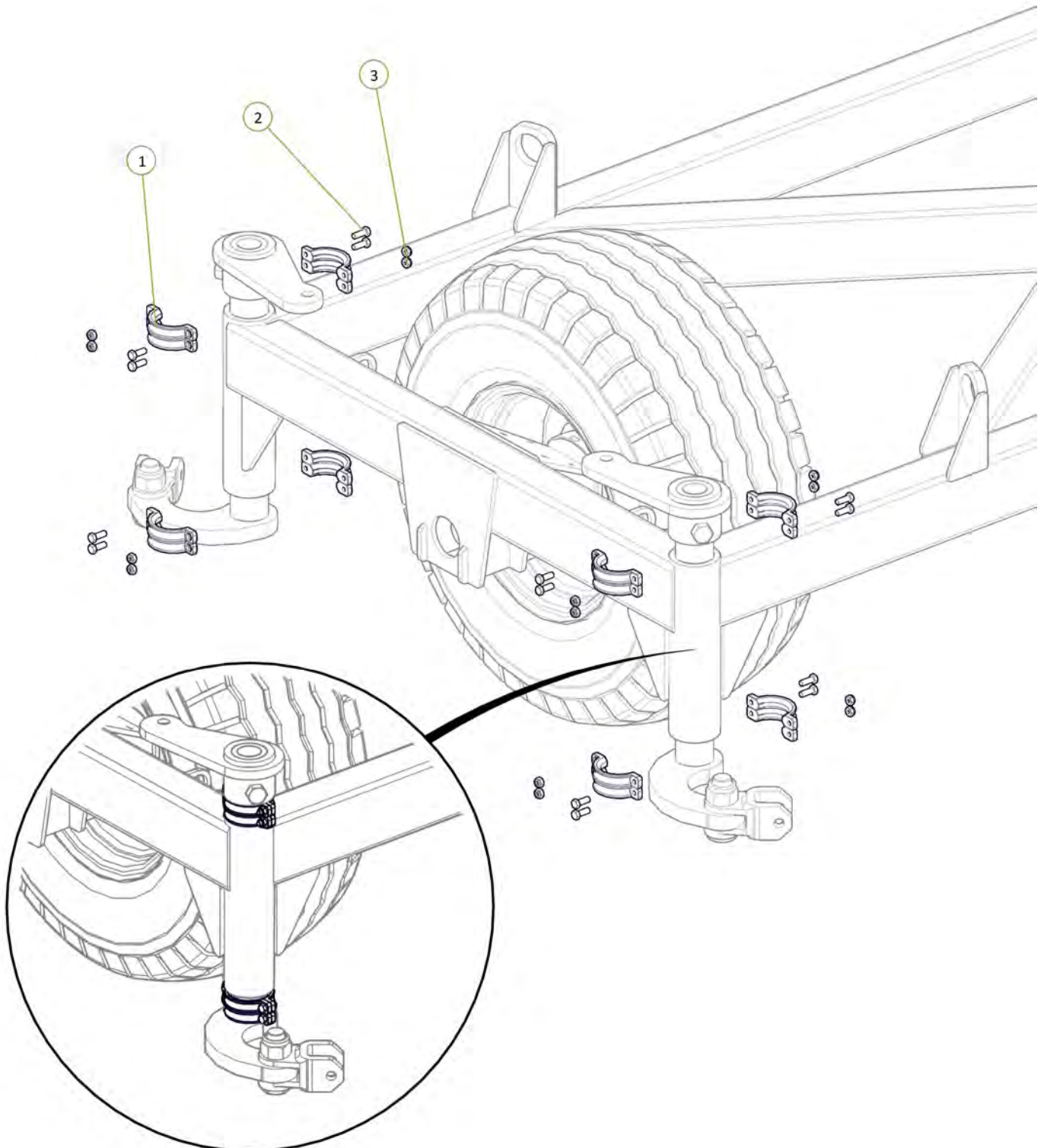


| Item No. | Description | Number | Qty |
|----------|------------------------------|----------------|-----|
| 1 | LH Dropleg No Clevis | 0810-24F | 1 |
| 2 | RH Dropleg No Clevis | 0810-25F | 1 |
| 3 | LH Chain Adjusting Lug | 0810-26 | 1 |
| 4 | RH Chain Adjusting Lug | 0810-27 | 1 |
| 5 | Forged Clevis 21mm Bolt Hole | 0801-FC21 | 2 |
| 6 | Stainless Steel Wear Bush | 1501-365033-SS | 2 |
| 7 | M24 x 140 grade 8.8 zp Bolt | 0211-24140 | 2 |
| 8 | Nyloc Nut M24 | 0221-NYL24 | 2 |
| 9 | M36 x 110 grade 8.8 zp Bolt | 0211-36110 | 2 |
| 10 | Nyloc Nut M36 | 0221-NYL36 | 2 |

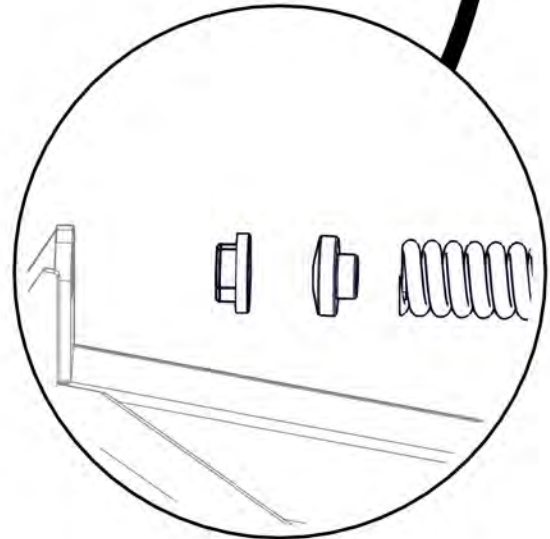
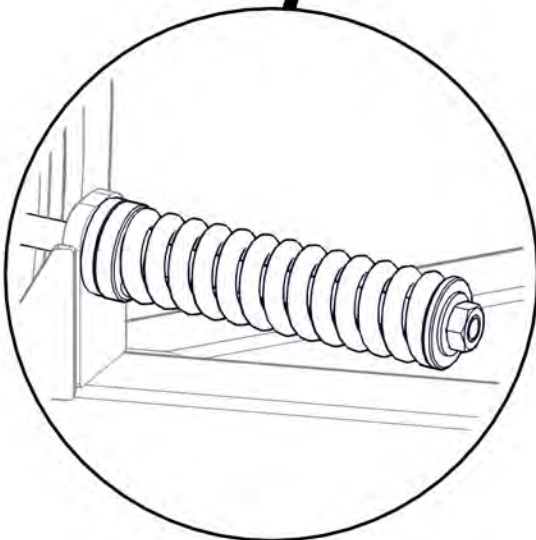
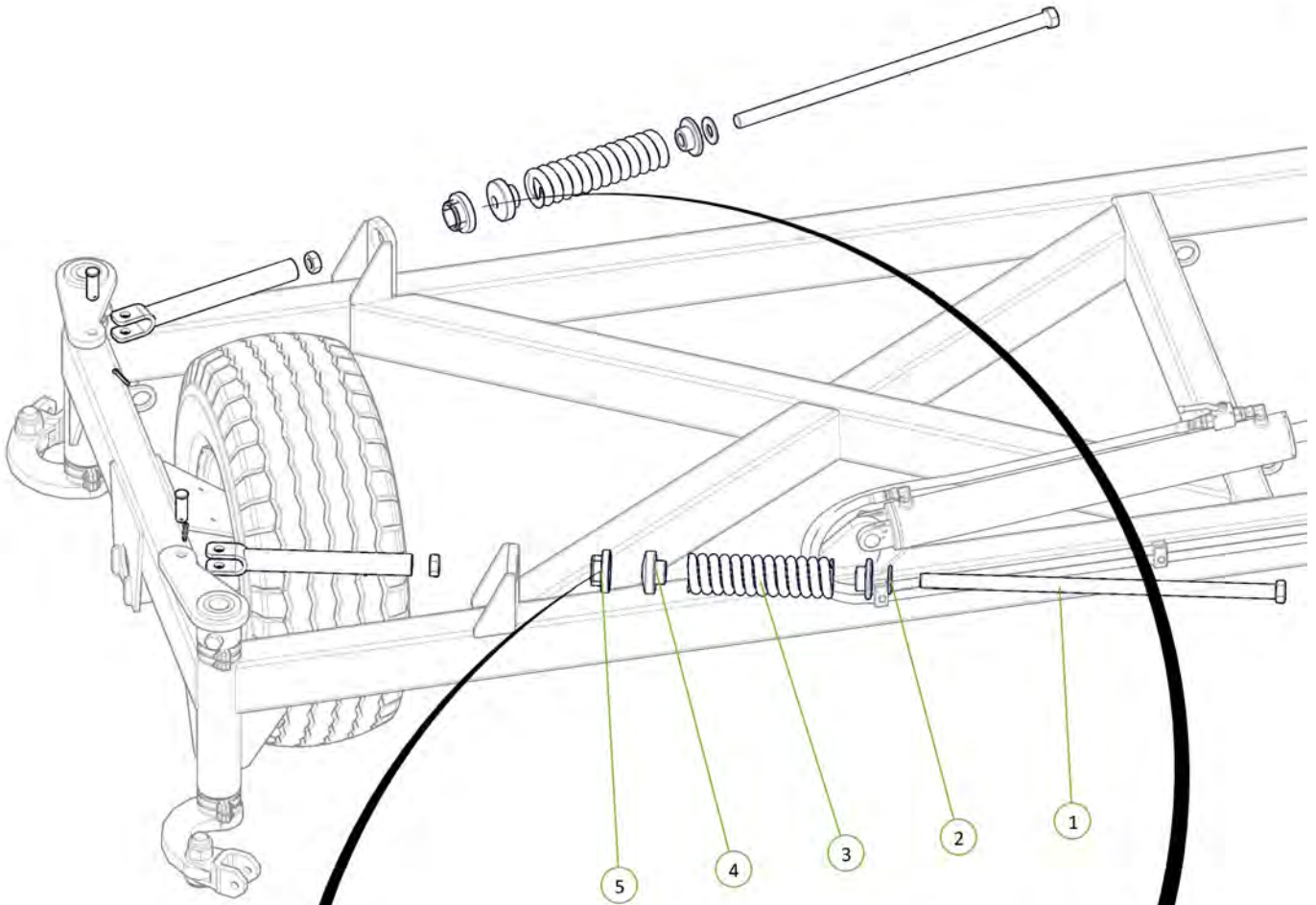


Ensure ALL clevis's can pivot after installation

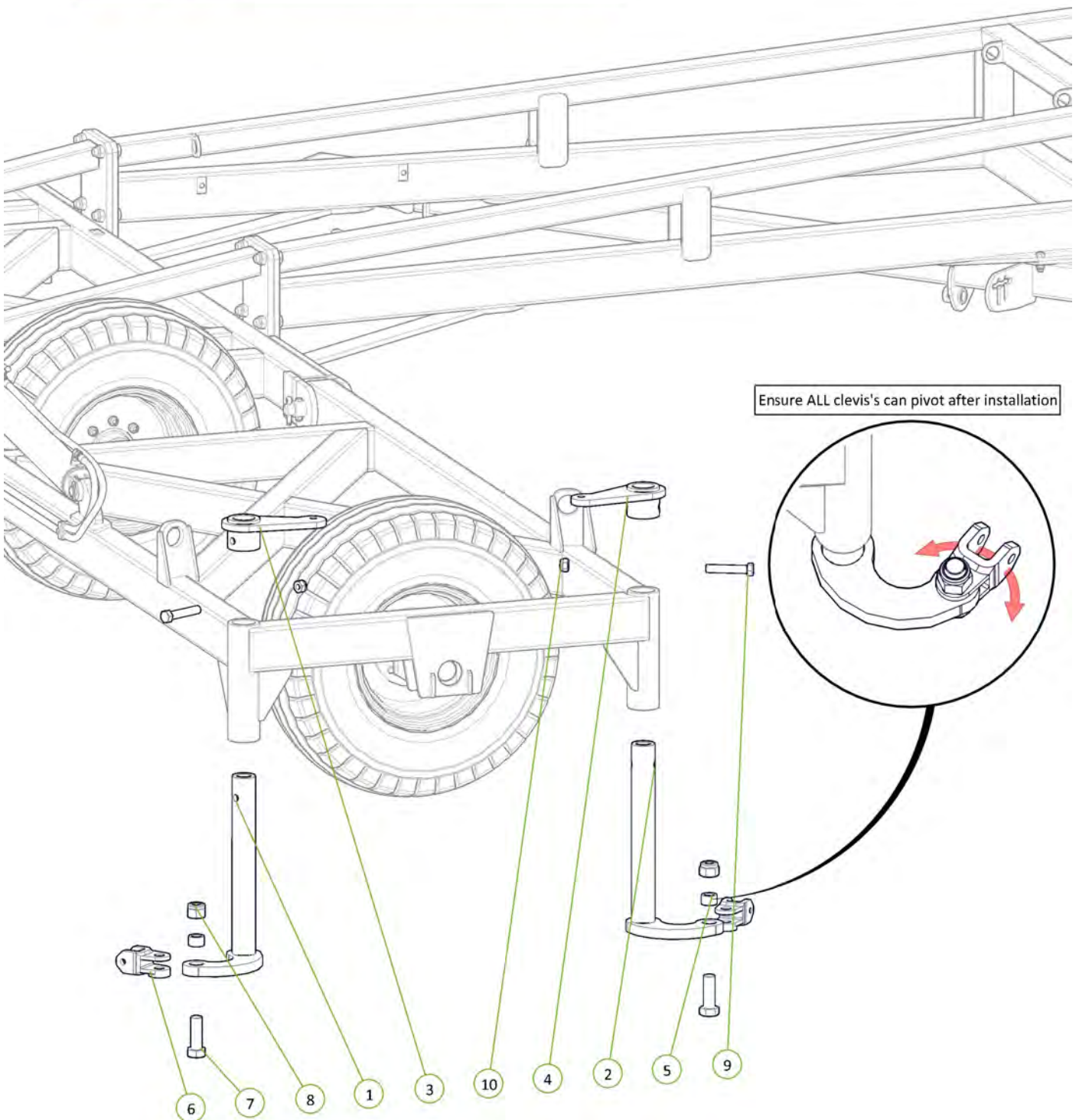
| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | Cast 25mm Spacing | 0801-CS25 | 16 |
| 2 | M10 x 30 grade 8.8 ZP Bolt | 0211-1030 | 16 |
| 3 | Nyloc Nut M10 | 0221-NYL10 | 16 |



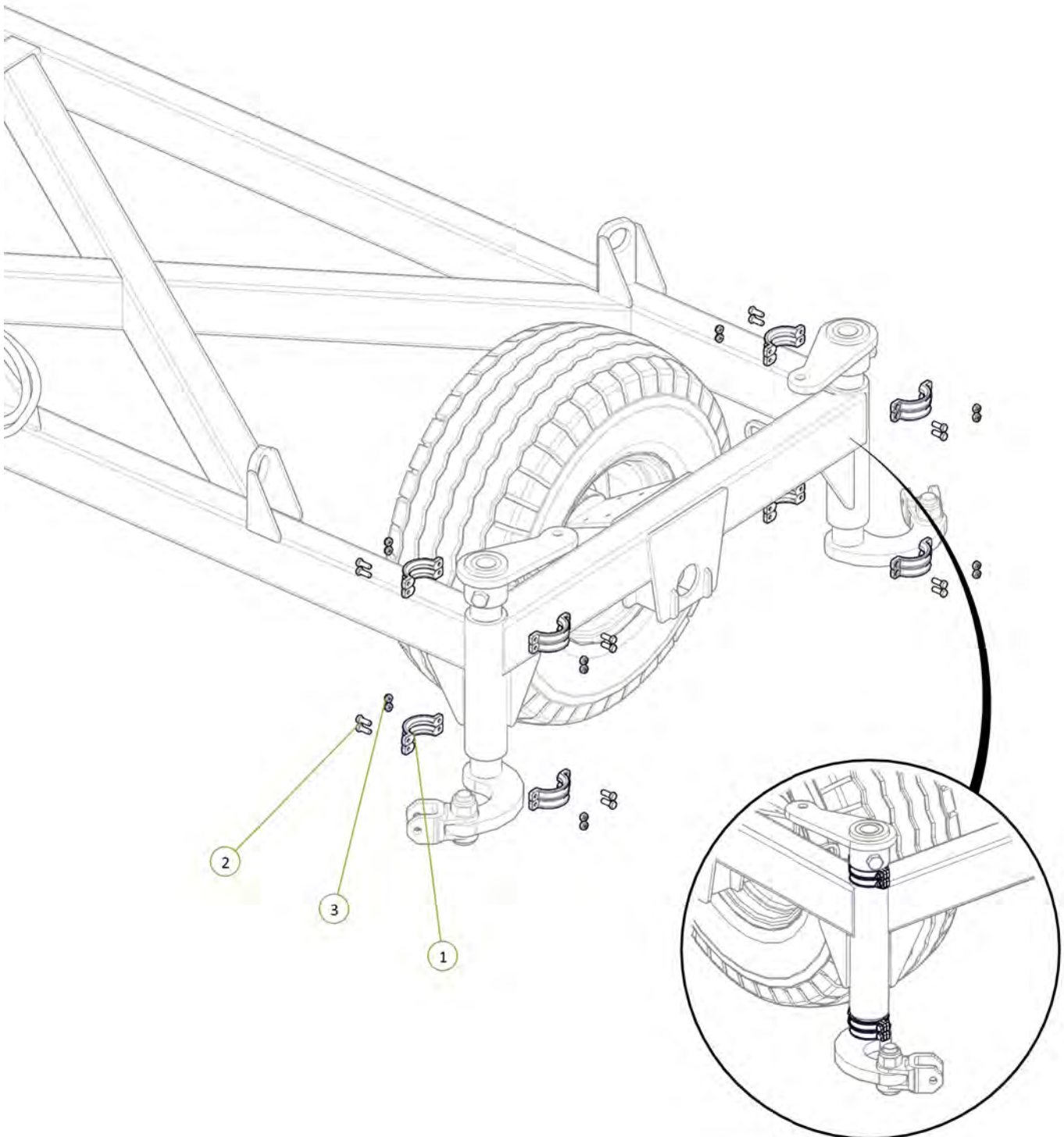
| Item No. | Description | Number | Qty |
|----------|----------------------------|---------------|-----|
| 1 | Chain Tension Adjustor | 0802-PCHTA | 2 |
| 2 | Washer High Tensile 1 1/4" | 0232-HT11-4 | 2 |
| 3 | 20mm Compression Spring | 0801-XK9261S | 2 |
| 4 | Tensioner Cup - Male | 0801-KE0805-3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



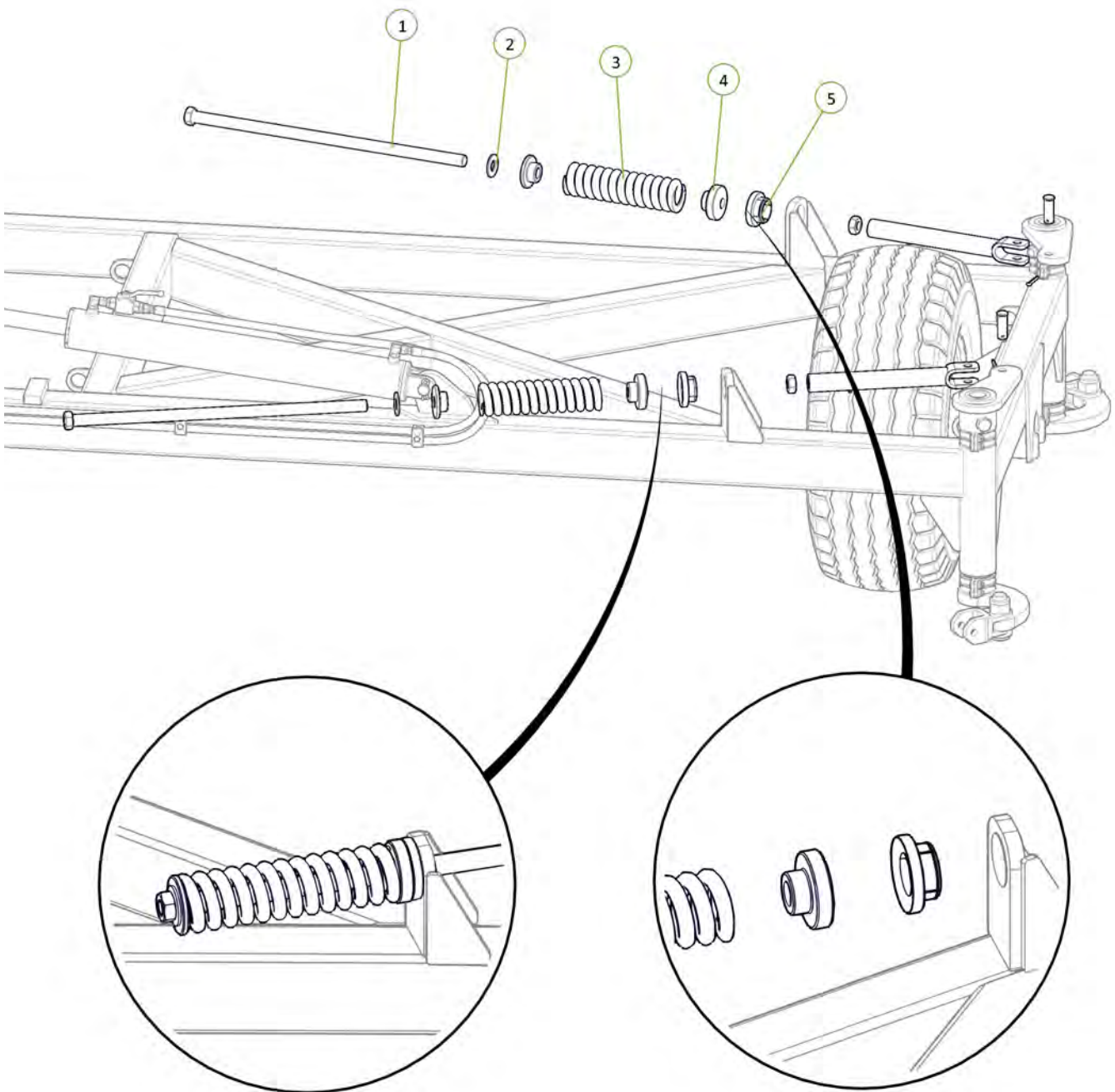
| Item No. | Description | Number | Qty |
|----------|------------------------------|----------------|-----|
| 1 | LH Dropleg No Clevis | 0810-24F | 1 |
| 2 | RH Dropleg No Clevis | 0810-25F | 1 |
| 3 | LH Chain Adjusting Lug | 0810-26 | 1 |
| 4 | RH Chain Adjusting Lug | 0810-27 | 1 |
| 5 | Stainless Steel Wear Bush | 1501-365033-SS | 2 |
| 6 | Forged Clevis 21mm Bolt Hole | 0801-FC21 | 2 |
| 7 | M36 x 110 grade 8.8 zp Bolt | 0211-36110 | 2 |
| 8 | Nyloc Nut M36 | 0221-NYL36 | 2 |
| 9 | M24 x 140 grade 8.8 zp Bolt | 0211-24140 | 2 |
| 10 | Nyloc Nut M24 | 0221-NYL24 | 2 |

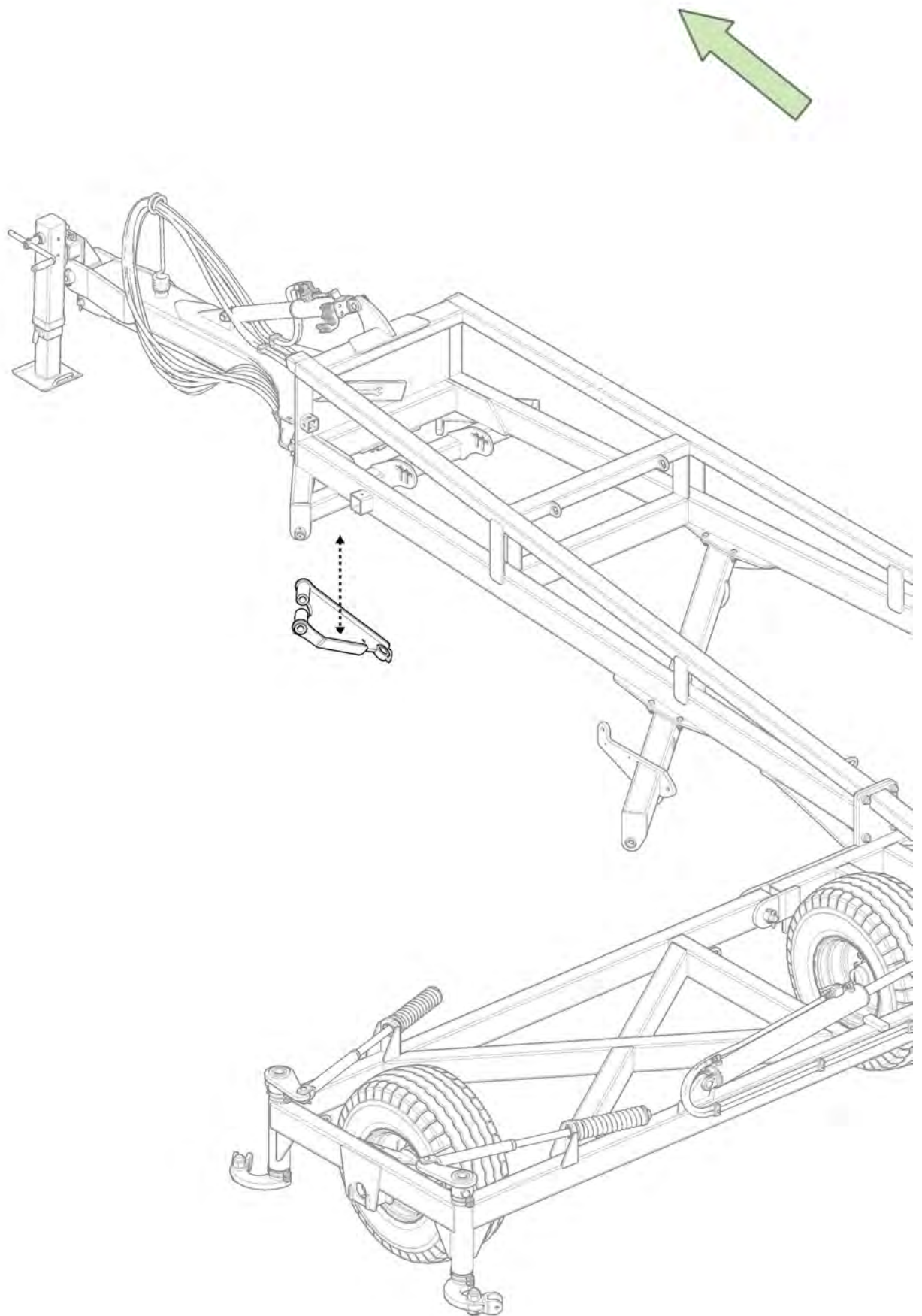


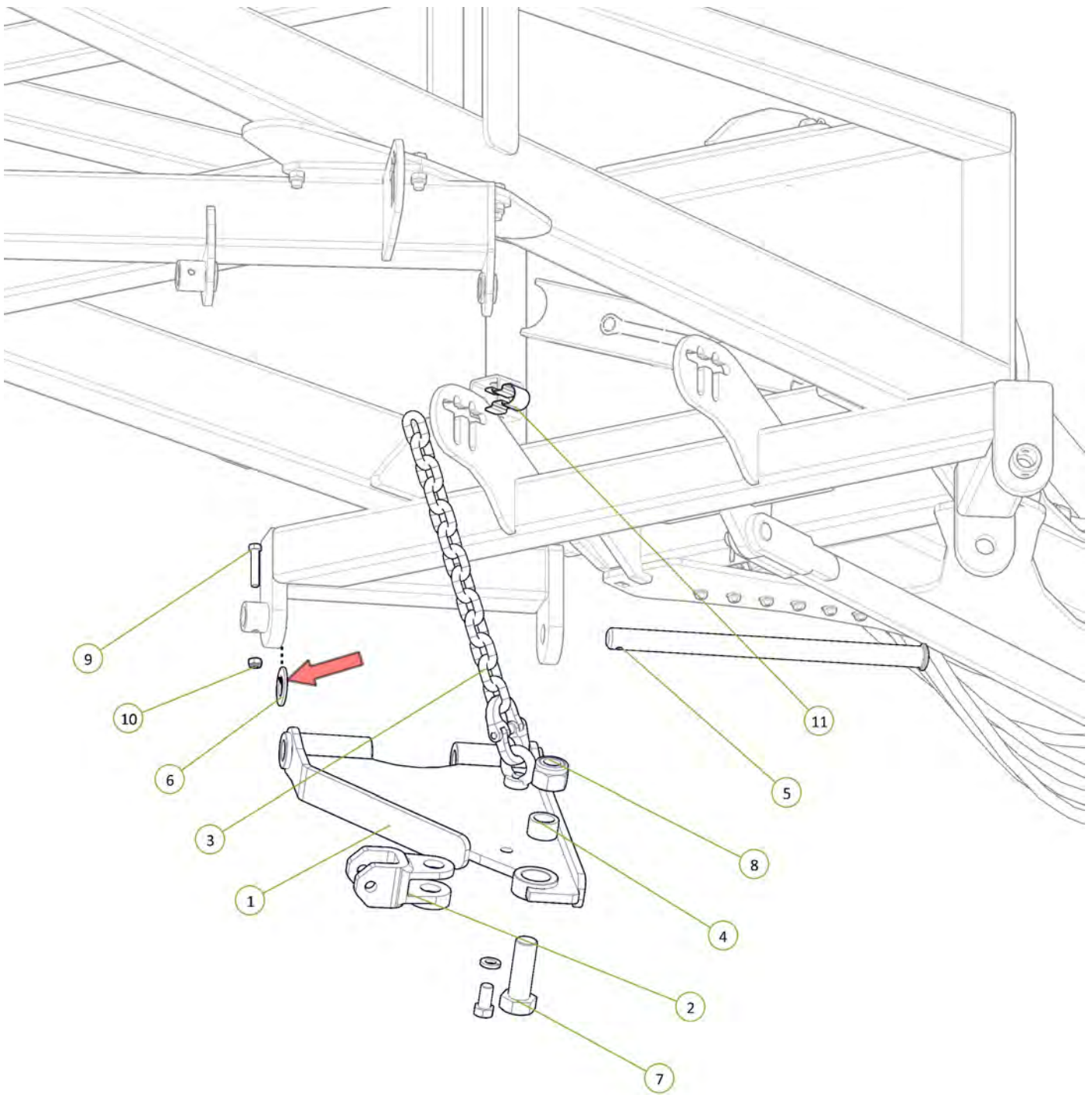
| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | Cast 25mm Spacing | 0801-CS25 | 16 |
| 2 | M10 x 30 grade 8.8 ZP Bolt | 0211-1030 | 16 |
| 3 | Nyloc Nut M10 | 0221-NYL10 | 16 |



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

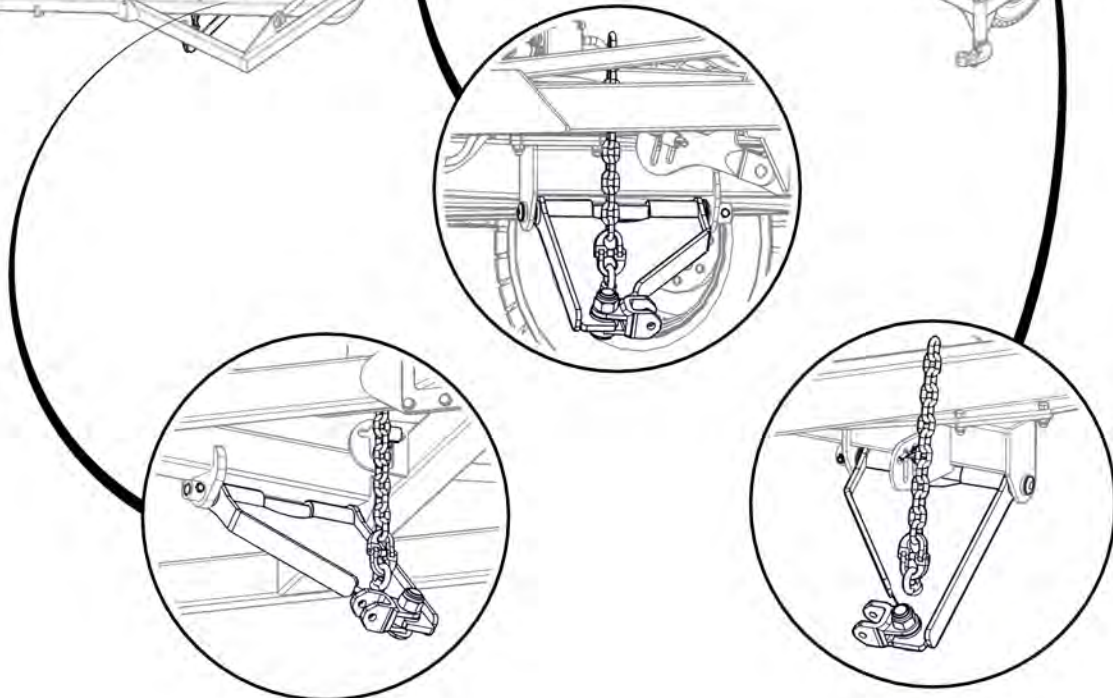
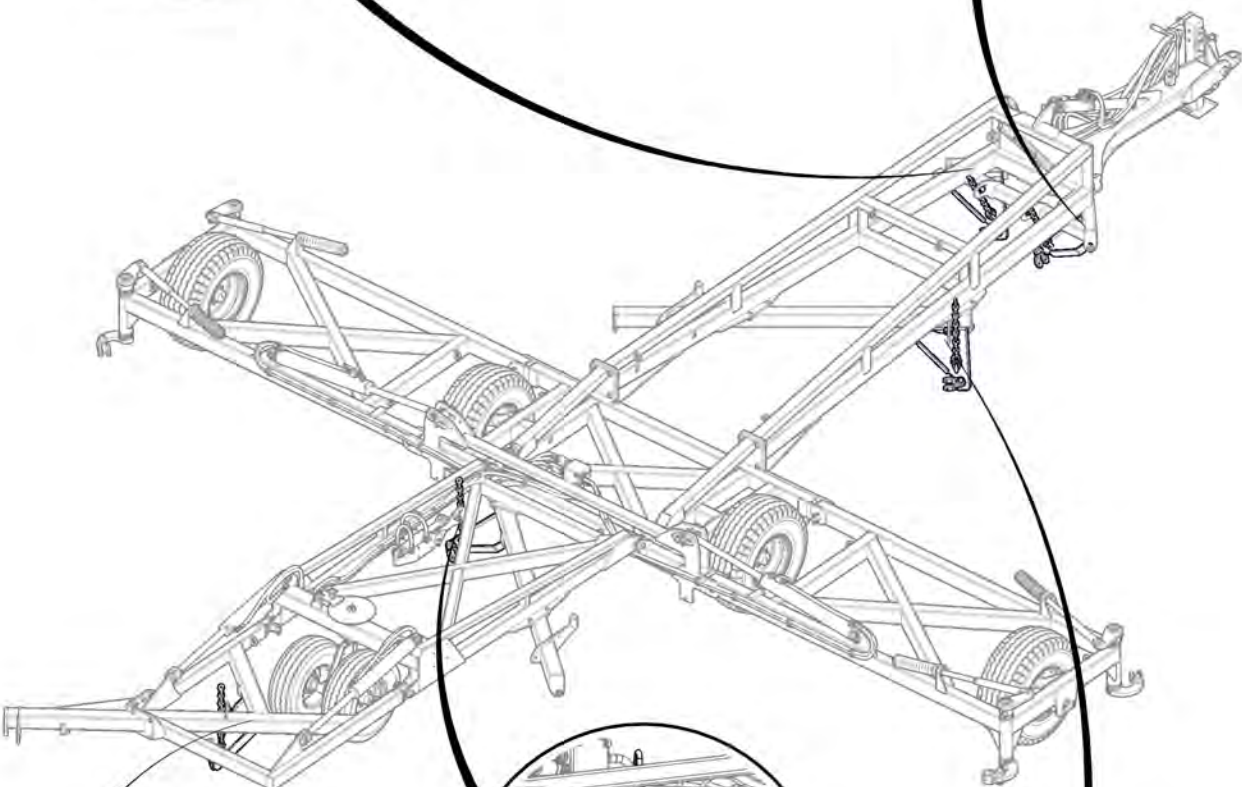




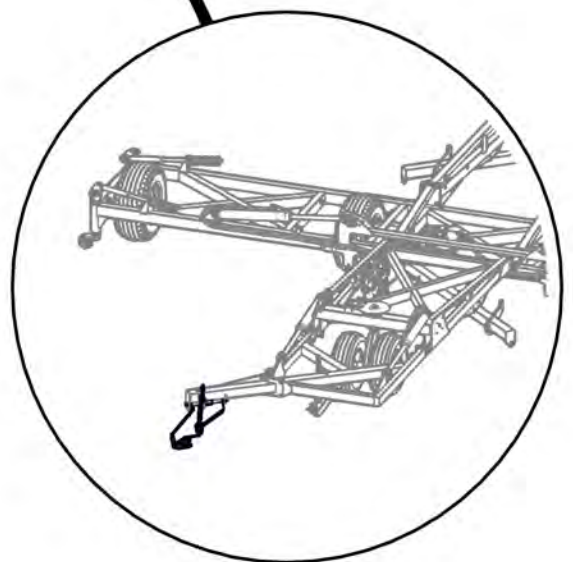
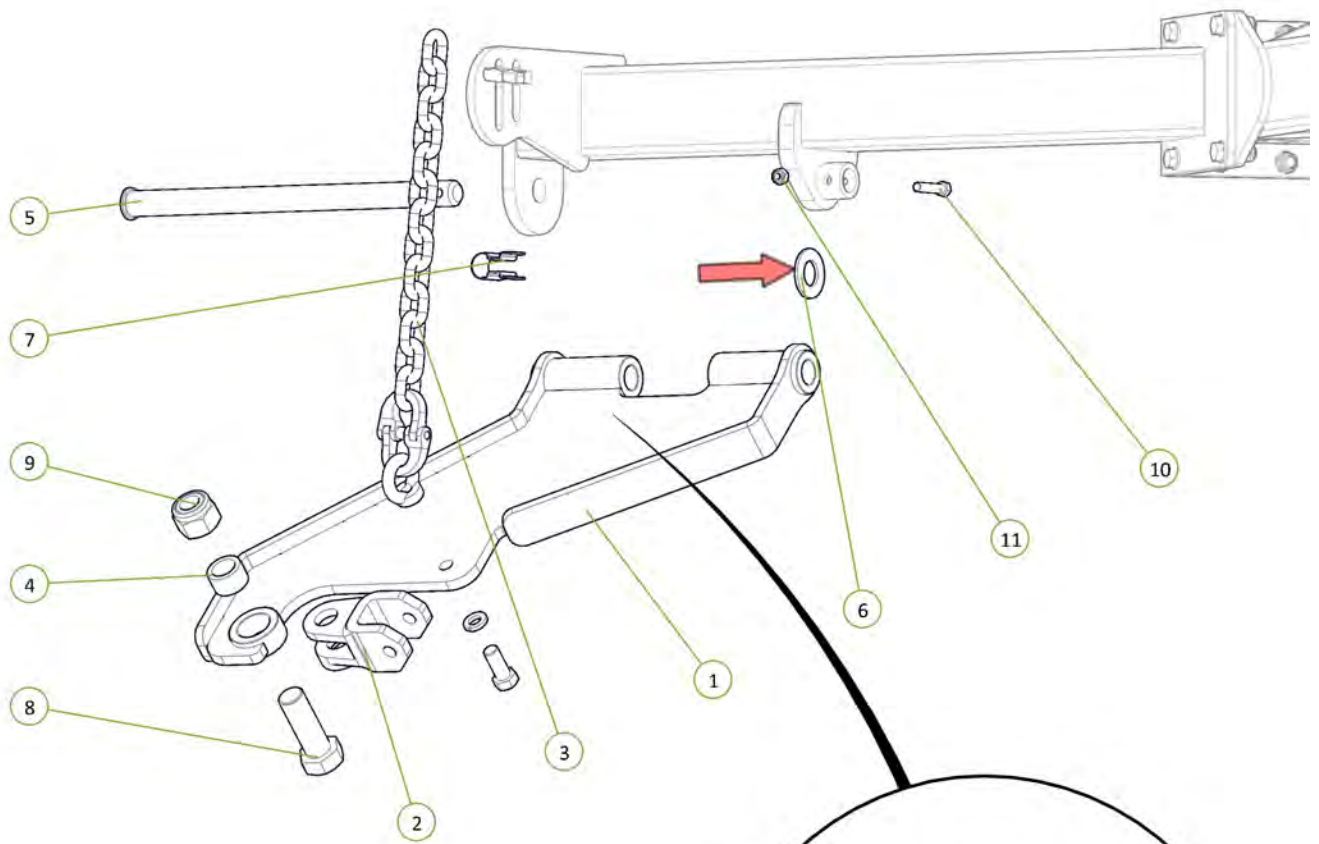
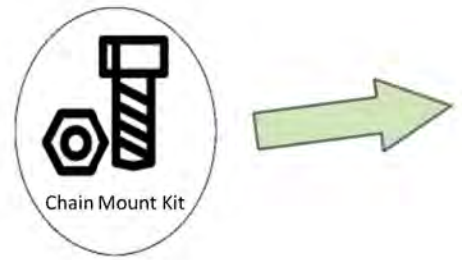


| Item No. | Description | Number | Qty |
|----------|---|----------------|-----|
| 1 | Standard Chain Mount Plate | 0810-20 | 1 |
| 2 | Forged Clevis 21mm Bolt Hole | 0801-FC21 | 1 |
| 3 | Height Adjusting Chain Assembly 13 Link | 0801-20MCA | 1 |
| 4 | Stainless Steel Wear Bush | 1501-365033-SS | 1 |
| 5 | Chain Mount Pivot Pin | 0801-10-51 | 1 |
| 6 | Washer High Tensile 1 1/4" | 0232-HT11-4 | 1 |
| 7 | M36 x 105 grade 8.8 zp Bolt | 0211-36105 | 1 |
| 8 | Nyloc Nut M36 | 0221-NYL36 | 1 |
| 9 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 1 |
| 10 | Nyloc Nut M12 | 0221-NYL12 | 1 |
| 11 | Height Adjustor Retaining Clip | 0801-KE014 | 1 |

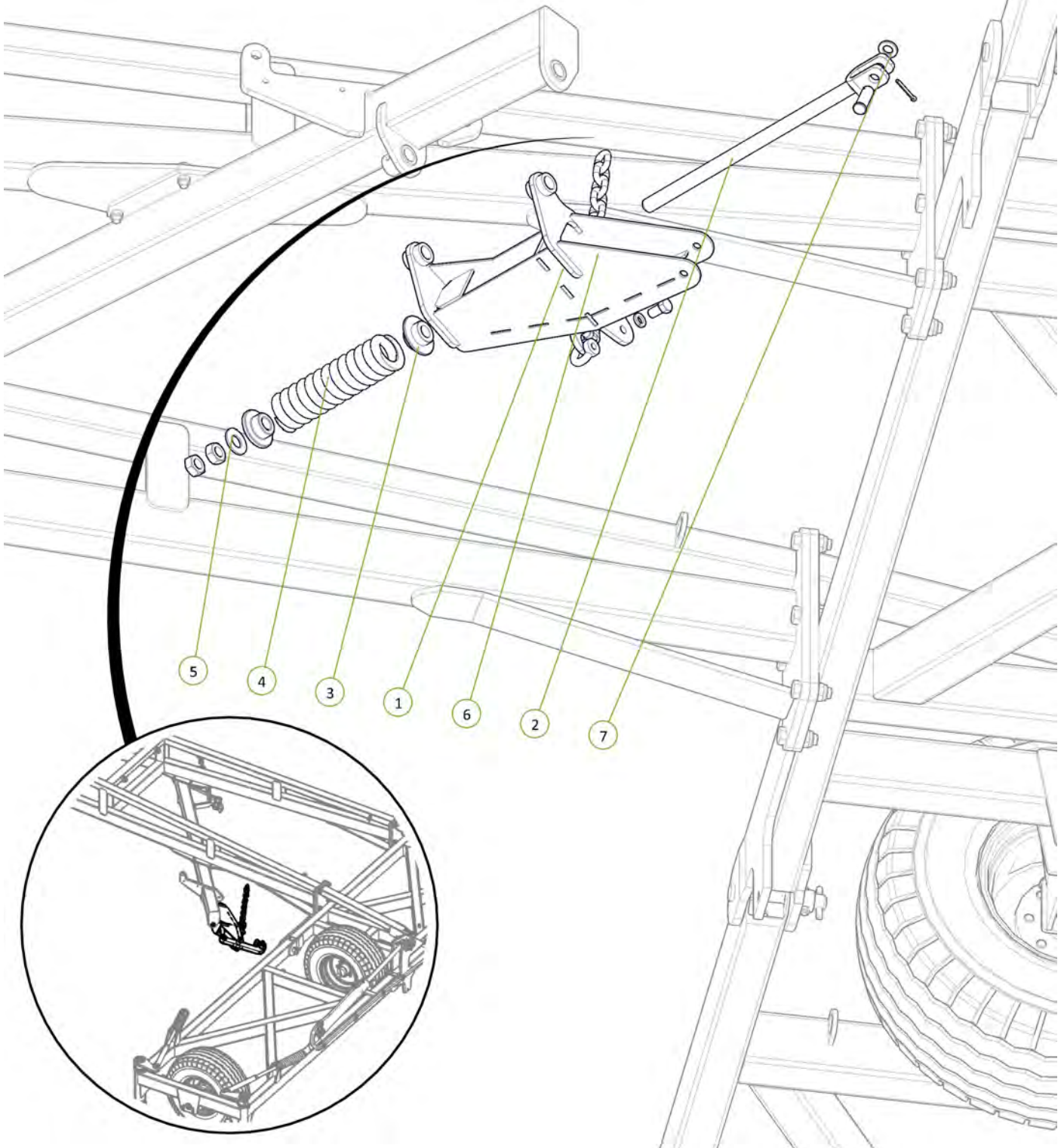
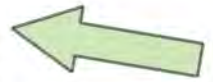


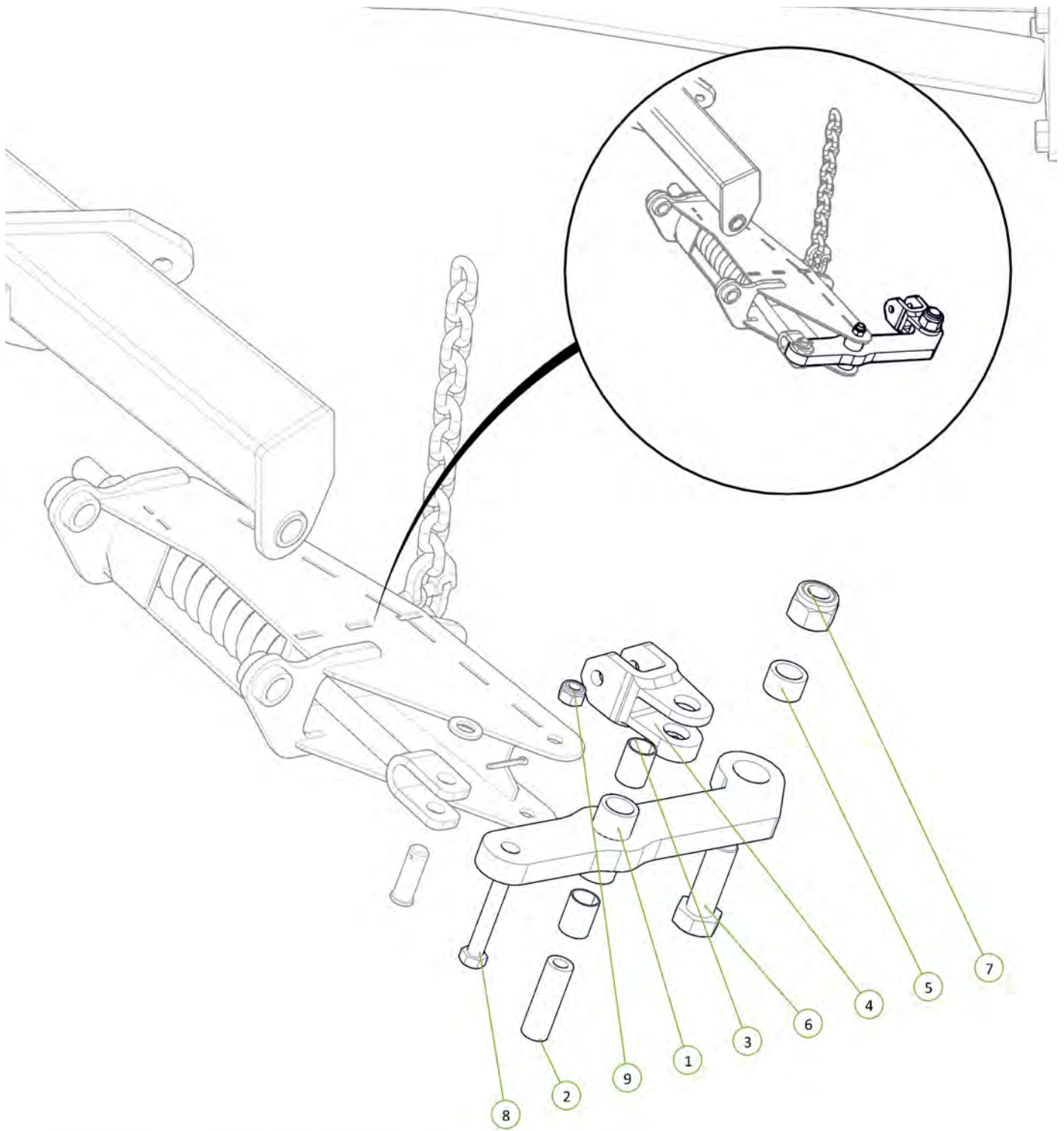


| Item No. | Description | Number | Qty |
|----------|---|----------------|-----|
| 1 | Extended Chain Mount Plate | 0810-21 | 1 |
| 2 | Forged Clevis 21mm Bolt Hole | 0801-FC21 | 1 |
| 3 | Height Adjusting Chain Assembly 13 Link | 0801-20MCA | 1 |
| 4 | Stainless Steel Wear Bush | 1501-365033-SS | 1 |
| 5 | Chain Mount Pivot Pin | 0801-10-51 | 1 |
| 6 | Washer High Tensile 1 3/8" | 0232-HT13-8 | 1 |
| 7 | Height Adjustor Retaining Clip | 0801-KE014 | 1 |
| 8 | M36 x 105 grade 8.8 zp Bolt | 0211-36105 | 1 |
| 9 | Nyloc Nut M36 | 0221-NYL36 | 1 |
| 10 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 1 |
| 11 | Nyloc Nut M12 | 0221-NYL12 | 1 |



| Item No. | Description | Number | Qty |
|----------|---|--------------|-----|
| 1 | Front Module Tension Body | 0810-103F | 1 |
| 2 | Module Tension Rod Assembly | 0810-105A | 1 |
| 3 | Rigid Spring Locator | 0801-10-S2L | 1 |
| 4 | 20mm Compression Spring | 0801-XK9261S | 1 |
| 5 | Washer High Tensile 1 1/4" | 0232-HT11-4 | 1 |
| 6 | Height Adjusting Chain Assembly 13 Link | 0801-20MCA | 1 |
| 7 | Washer Flat M24 | 0231-F24 | 1 |

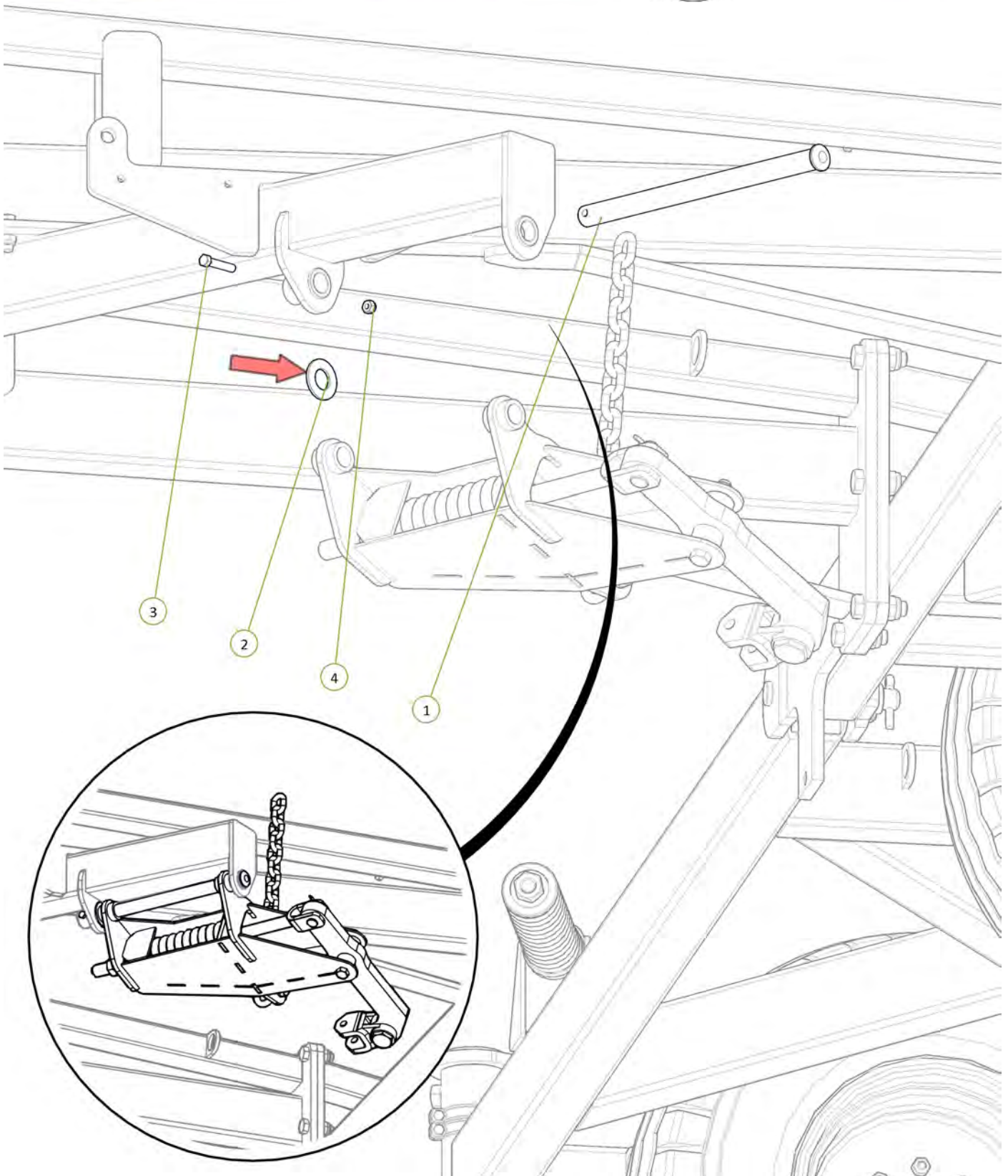


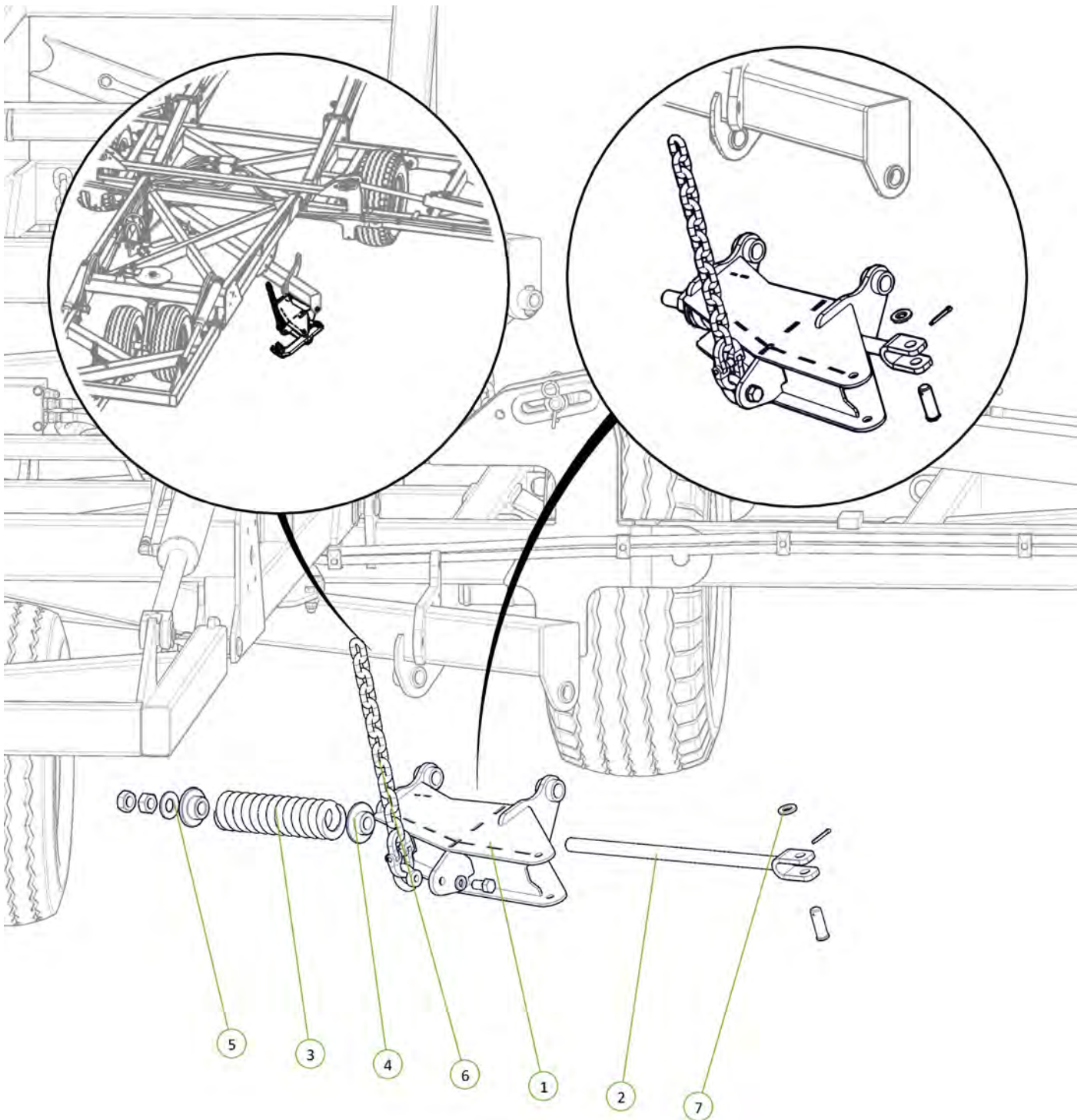


| Item No. | Description | Number | Qty |
|----------|------------------------------|----------------|-----|
| 1 | Module Tension Arm | 0810-104 | 1 |
| 2 | Module Pivot Arm Bush | 0801-10-110 | 1 |
| 3 | 35 ID x 50mm DU Bush | 0113-MB 3550DU | 2 |
| 4 | Forged Clevis 21mm Bolt Hole | 0801-FC21 | 1 |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



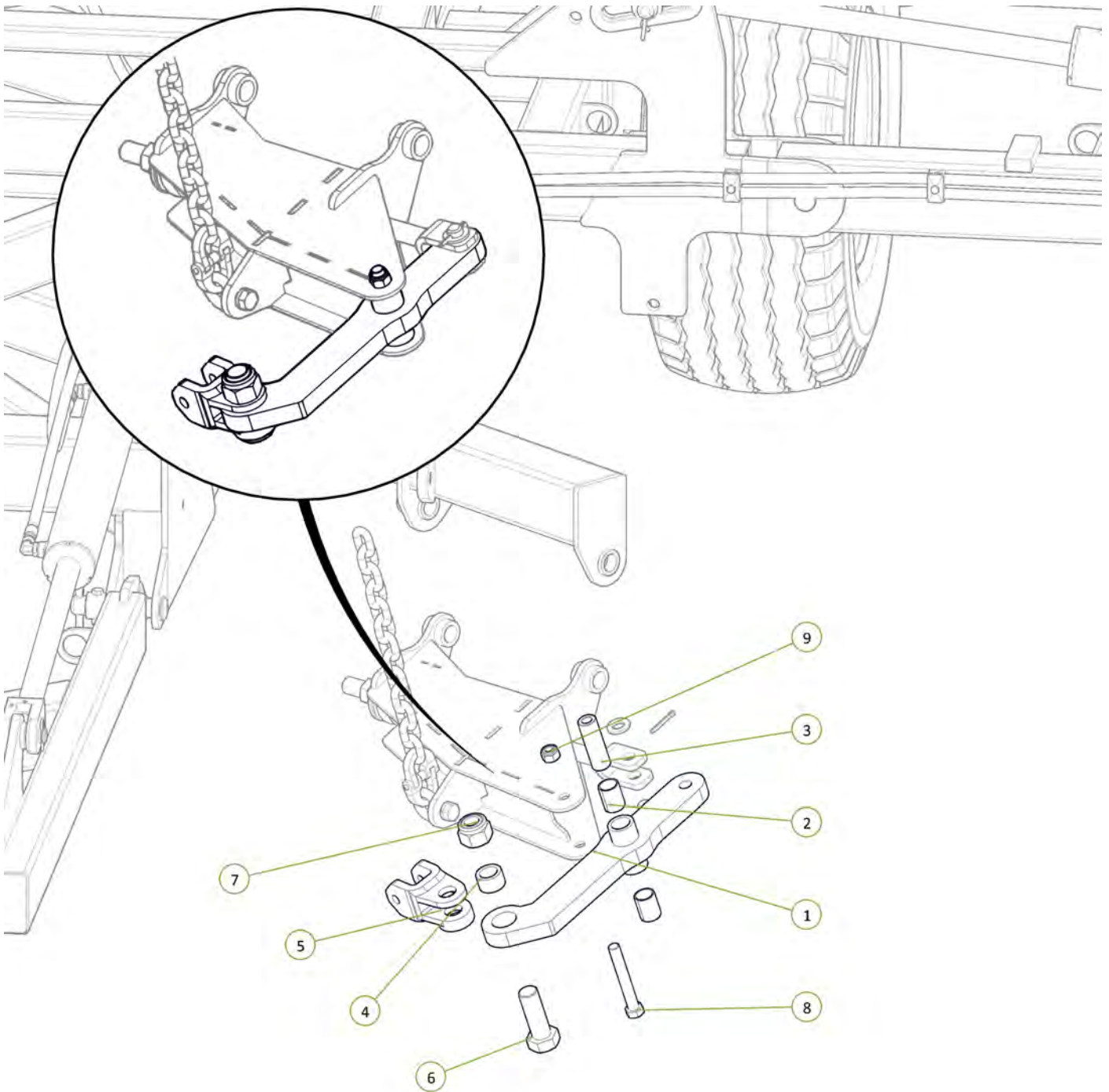
| Item No. | Description | Number | Qty |
|----------|----------------------------|-------------|-----|
| 1 | Chain Mount Pivot Pin | 0801-10-51 | 1 |
| 2 | Washer High Tensile 1 3/8" | 0232-HT13-8 | 1 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 1 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 1 |





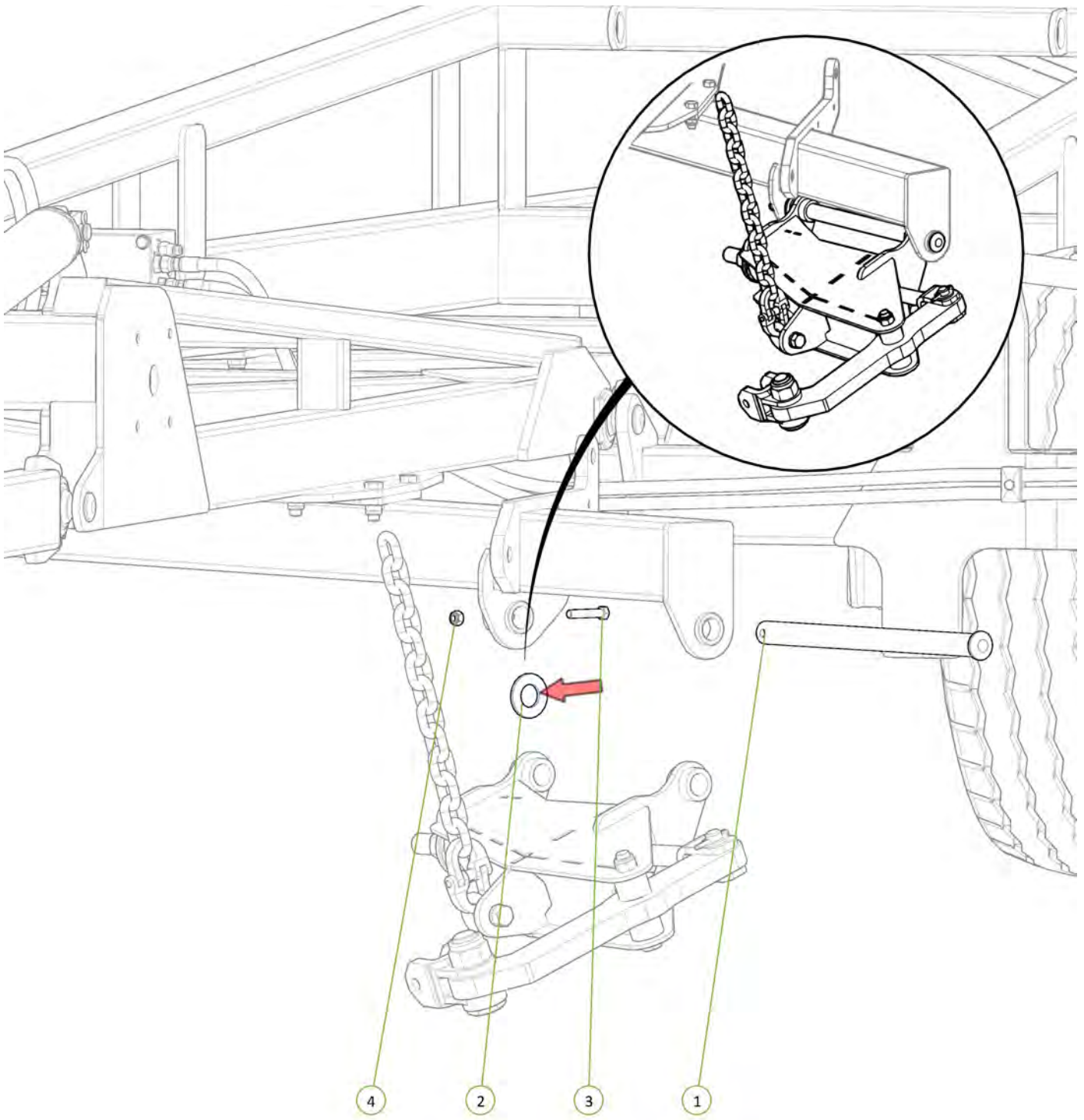
| Item No. | Description | Number | Qty |
|----------|---|--------------|-----|
| 1 | Rear Module Tension Body | 0810-103R | 1 |
| 2 | Module Tension Rod Assembly | 0810-105A | 1 |
| 3 | 20mm Compression Spring | 0801-XK9261S | 1 |
| 4 | Rigid Spring Locator | 0801-10-S2L | 1 |
| 5 | Washer High Tensile 1 1/4" | 0232-HT11-4 | 1 |
| 6 | Height Adjusting Chain Assembly 13 Link | 0801-20MCA | 1 |
| 7 | Washer Flat M24 | 0231-F24 | 1 |





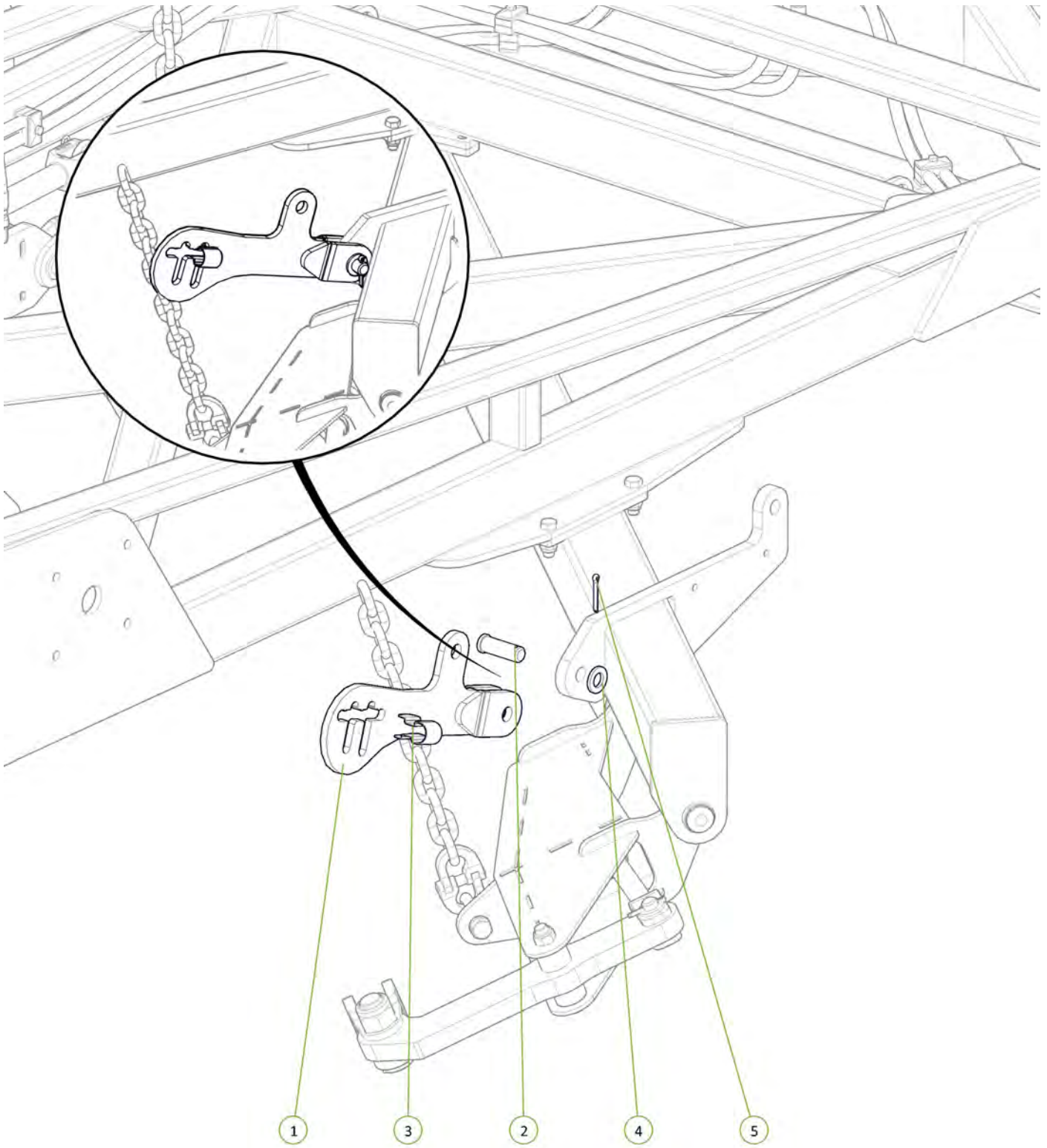
| Item No. | Description | Number | Qty |
|----------|------------------------------|----------------|-----|
| 1 | Module Tension Arm | 0810-104 | 1 |
| 2 | 35 ID x 50mm DU Bush | 0113-MB 3550DU | 2 |
| 3 | Module Pivot Arm Bush | 0801-10-110 | 1 |
| 4 | Stainless Steel Wear Bush | 1501-365033-SS | 1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





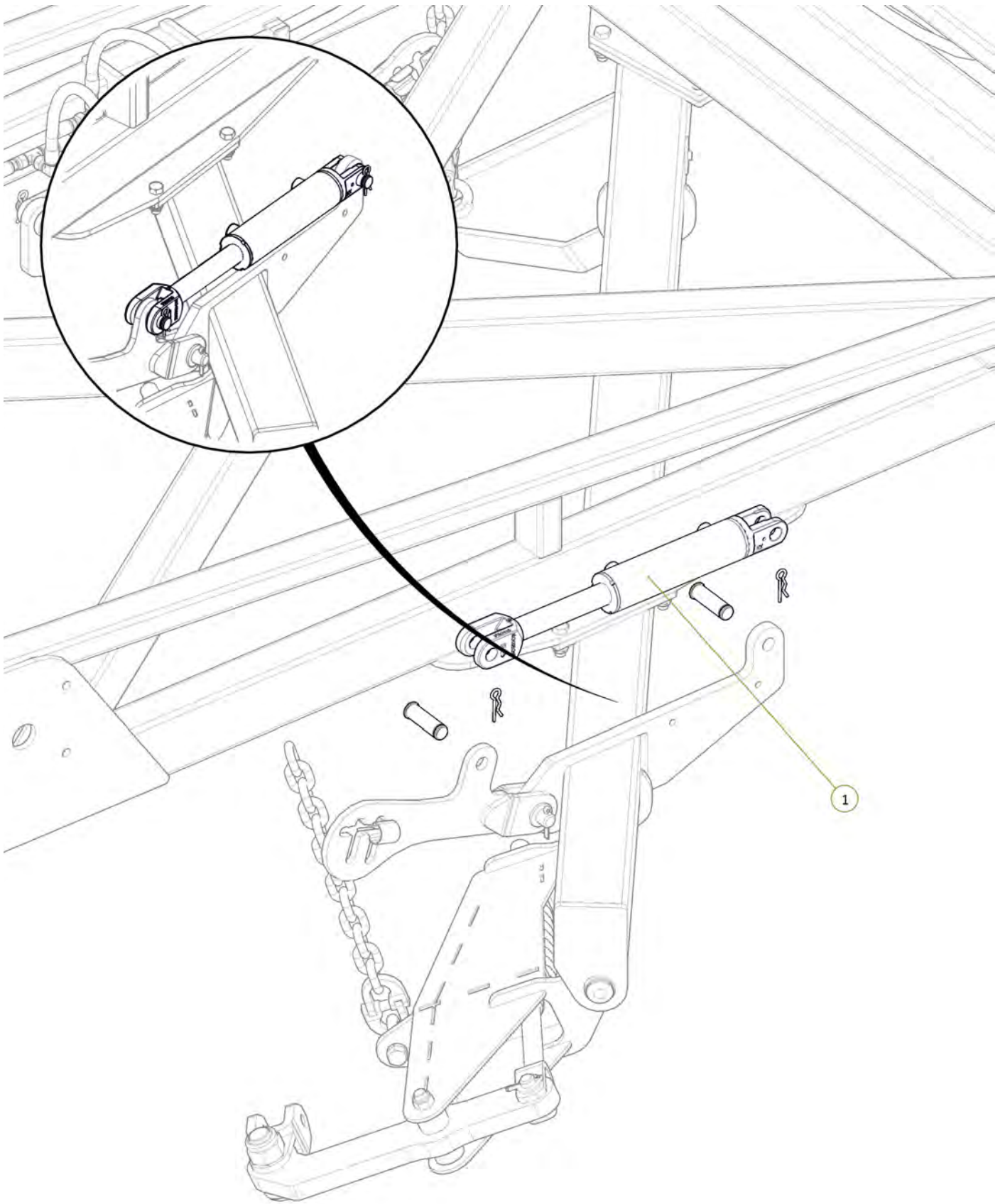
| Item No. | Description | Number | Qty |
|----------|----------------------------|-------------|-----|
| 1 | Chain Mount Pivot Pin | 0801-10-51 | 1 |
| 2 | Washer High Tensile 1 3/8" | 0232-HT13-8 | 1 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 0211-1265 | 1 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 1 |



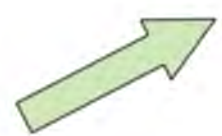


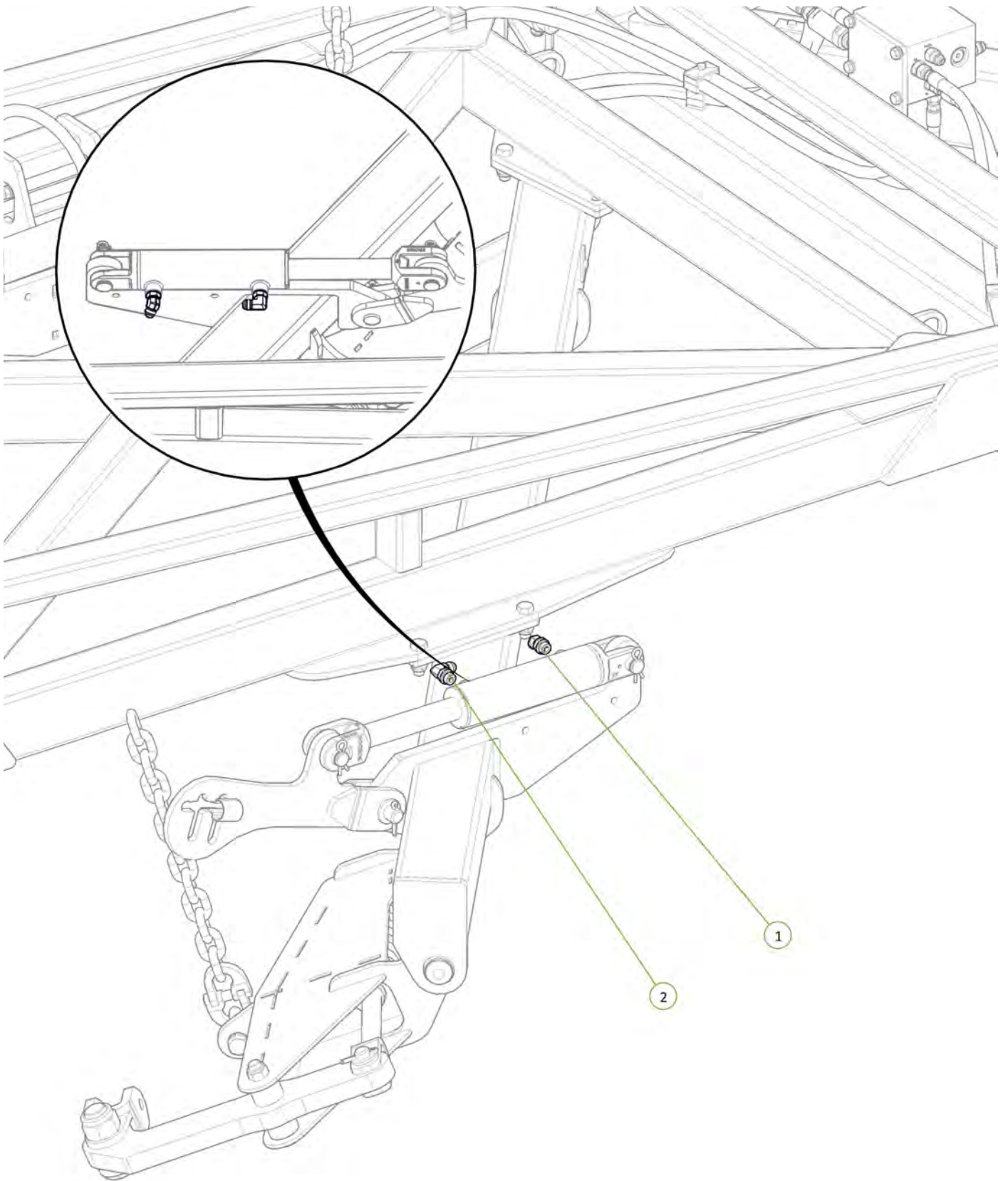
| Item No. | Description | Number | Qty |
|----------|--------------------------------|---------------|-----|
| 1 | 30' Module Lift Plate | 0810-106 | 1 |
| 2 | Clevis Pin 25mm x 75mm | 0801-KE0307-1 | 1 |
| 3 | Height Adjustor Retaining Clip | 0801-KE014 | 1 |
| 4 | Washer Flat M24 | 0231-F24 | 1 |
| 5 | Cotter Pin M5 x 50 | 0261-PINC550 | 1 |





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

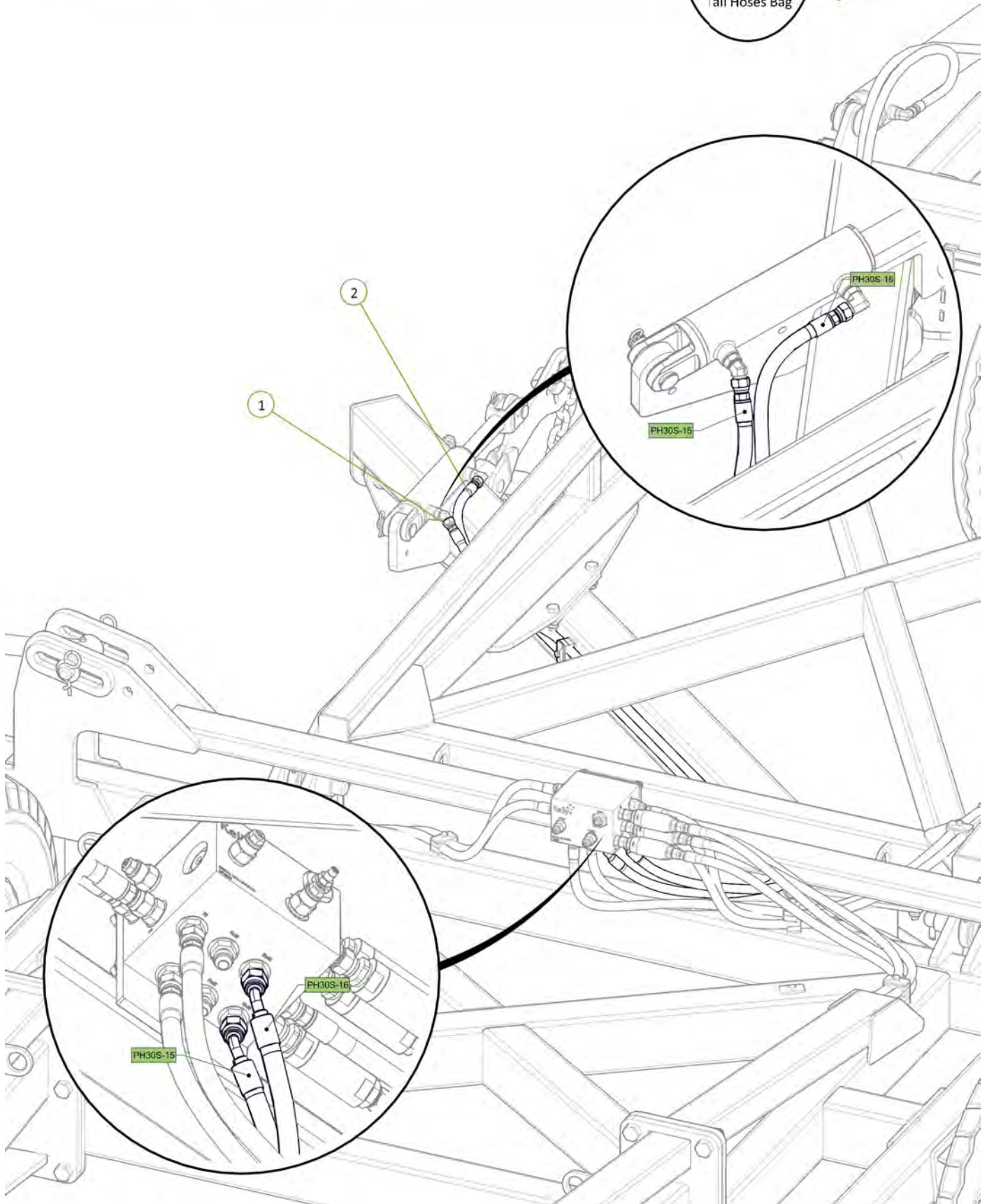


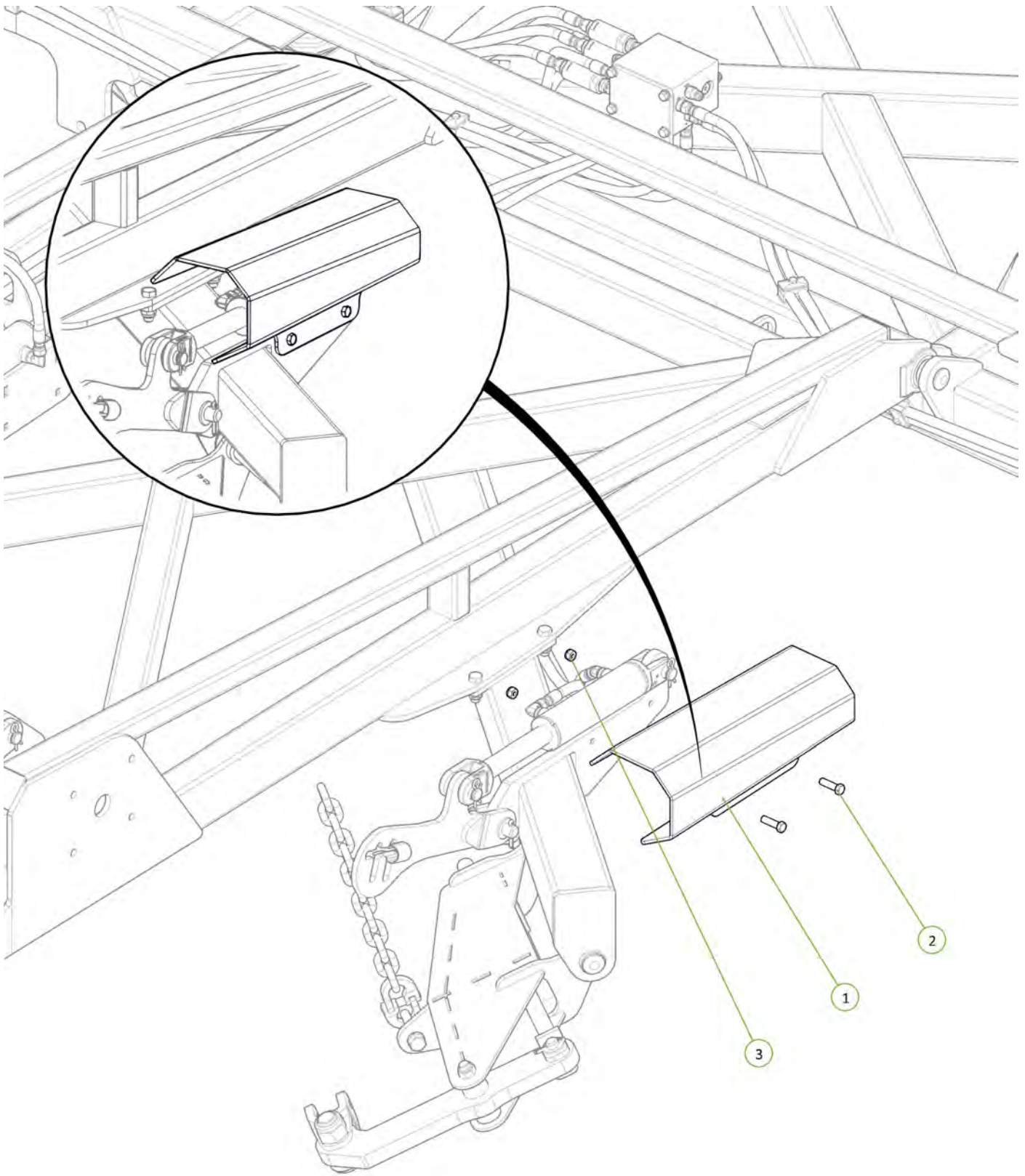


| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 45° Elbow | 0323-S88-1212 | 1 |
| 2 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 1 |

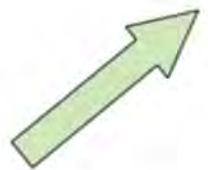


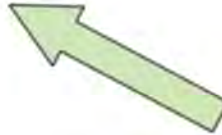
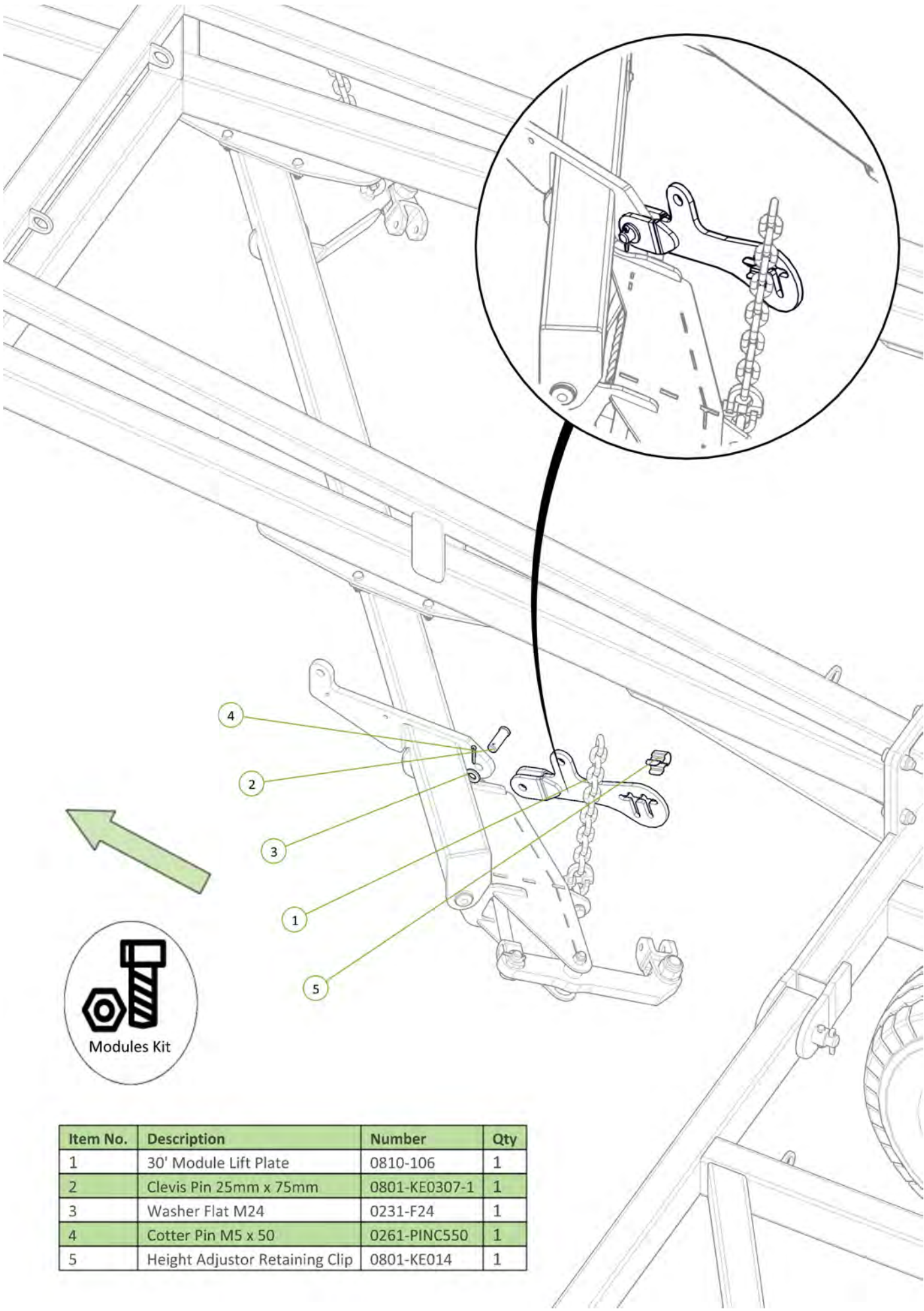
| Item No. | Description | Number | Qty |
|----------|---|----------|-----|
| 1 | Valve RME Port to Right Rear Module Rear Port | PH30S-15 | 1 |
| 2 | Valve RMR Port to Right Rear Module Rod Port | PH30S-16 | 1 |



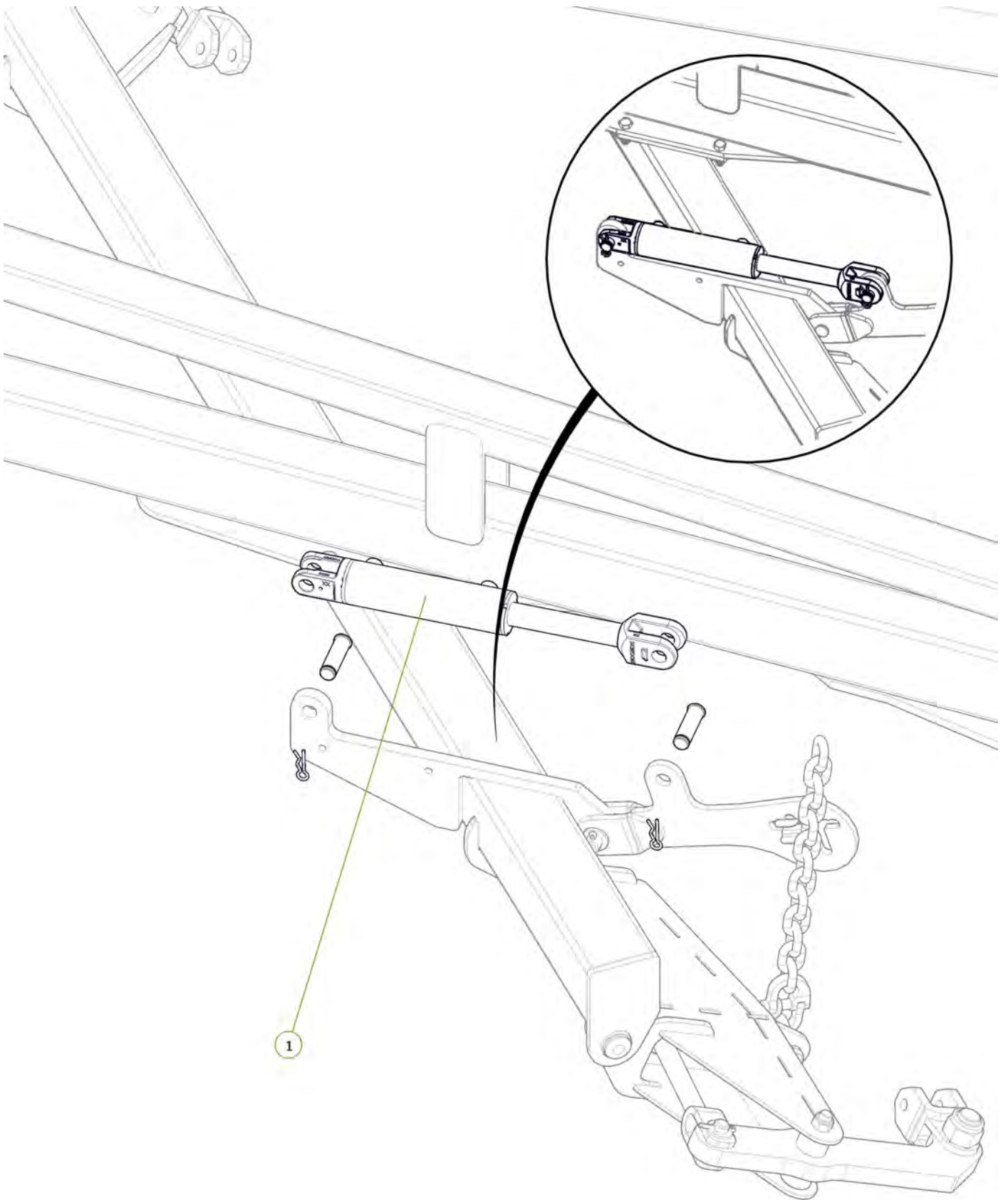


| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | Module Cylinder Guard | 0800-167.3 | 1 |
| 2 | M12 x 45 grade 8.8 ZP Bolt | 0211-1245 | 2 |
| 3 | Nyloc Nut M12 | 0221-NYL12 | 2 |

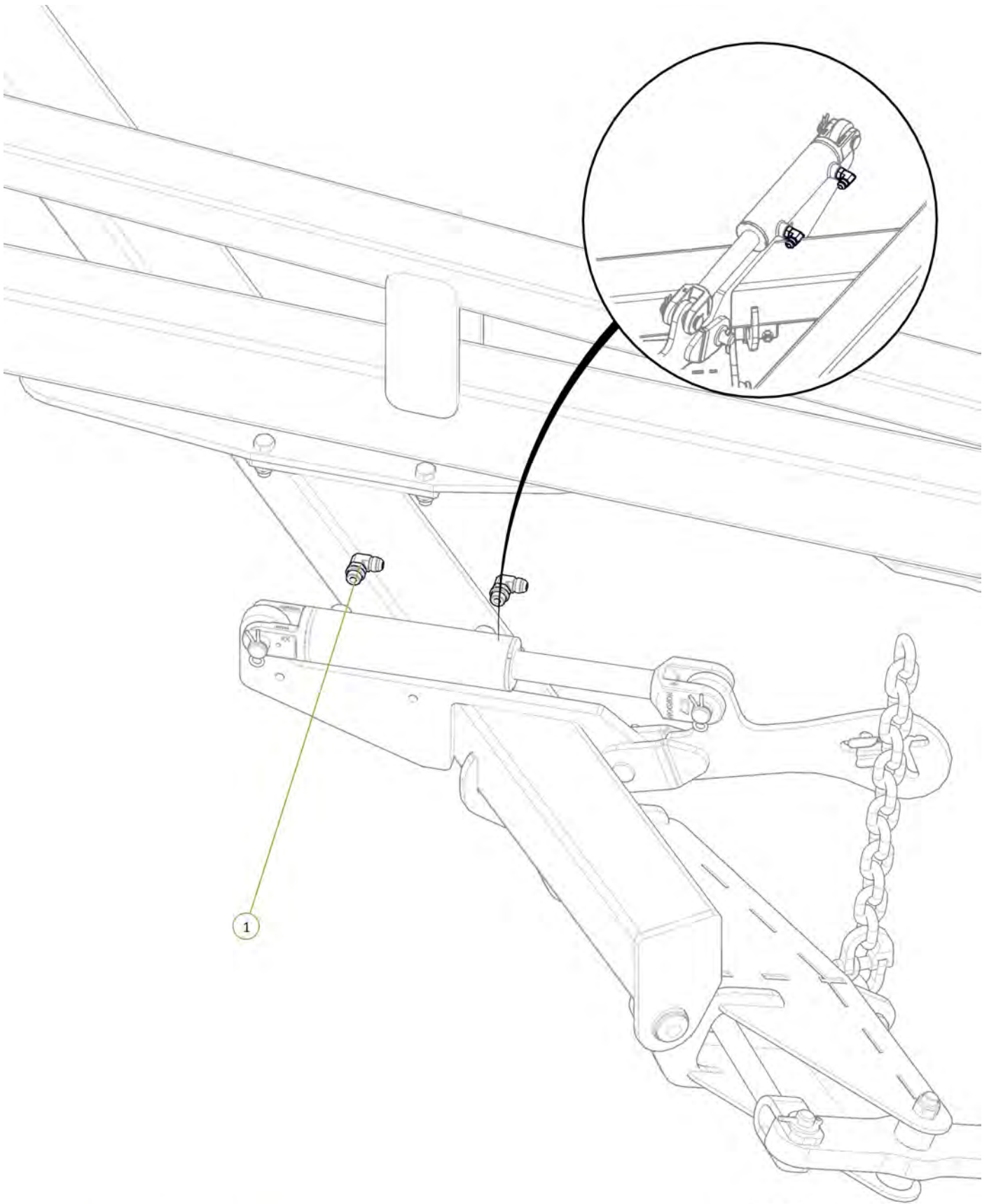




| Item No. | Description | Number | Qty |
|----------|--------------------------------|---------------|-----|
| 1 | 30' Module Lift Plate | 0810-106 | 1 |
| 2 | Clevis Pin 25mm x 75mm | 0801-KE0307-1 | 1 |
| 3 | Washer Flat M24 | 0231-F24 | 1 |
| 4 | Cotter Pin M5 x 50 | 0261-PINC550 | 1 |
| 5 | Height Adjustor Retaining Clip | 0801-KE014 | 1 |



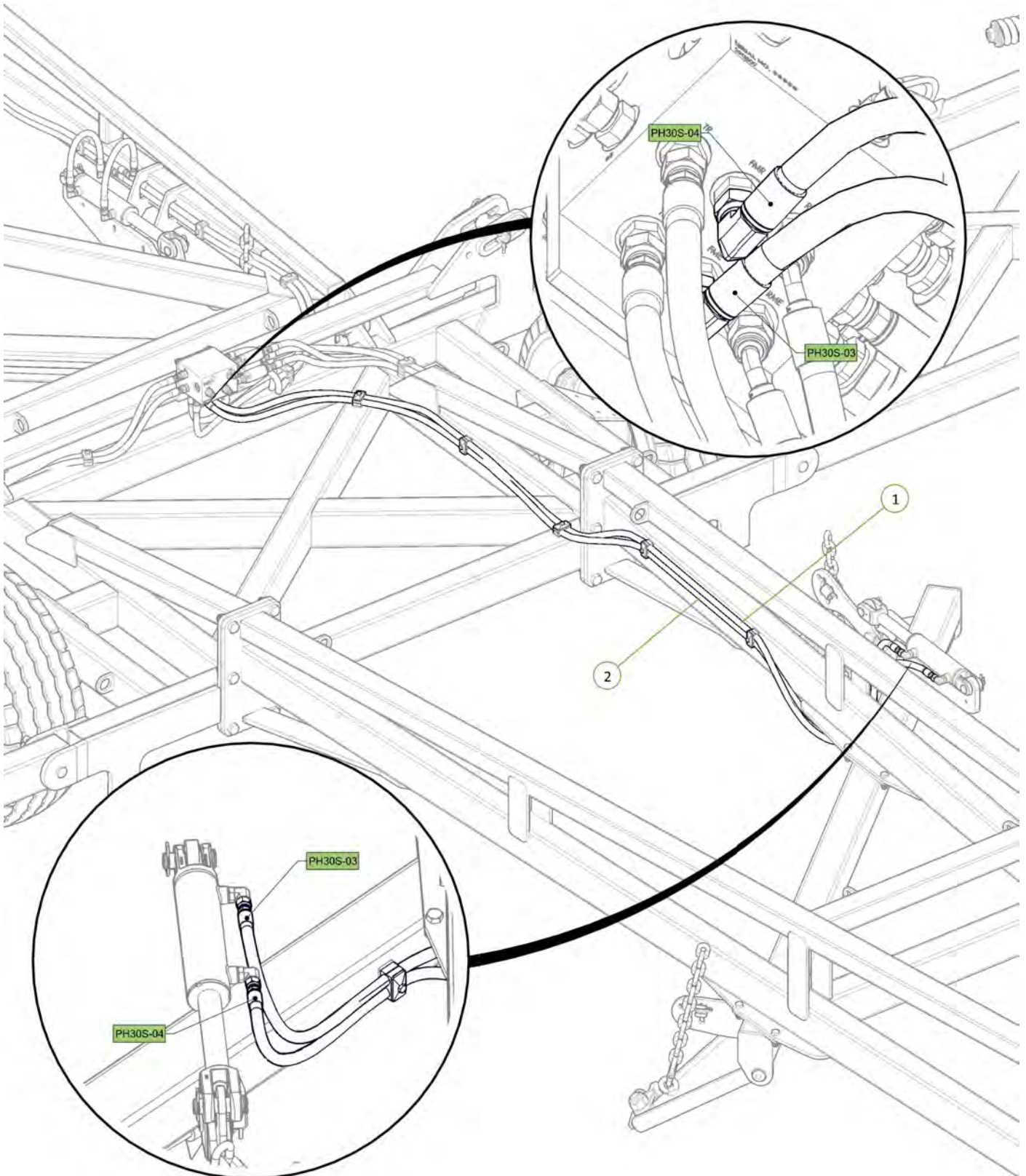
| Item No. | Description | Number | Qty |
|----------|---|------------|-----|
| 1 | 2.5" Bore x 6" Stroke 1.5" Rod Side Port Cylinder | 0311-256SP | 1 |



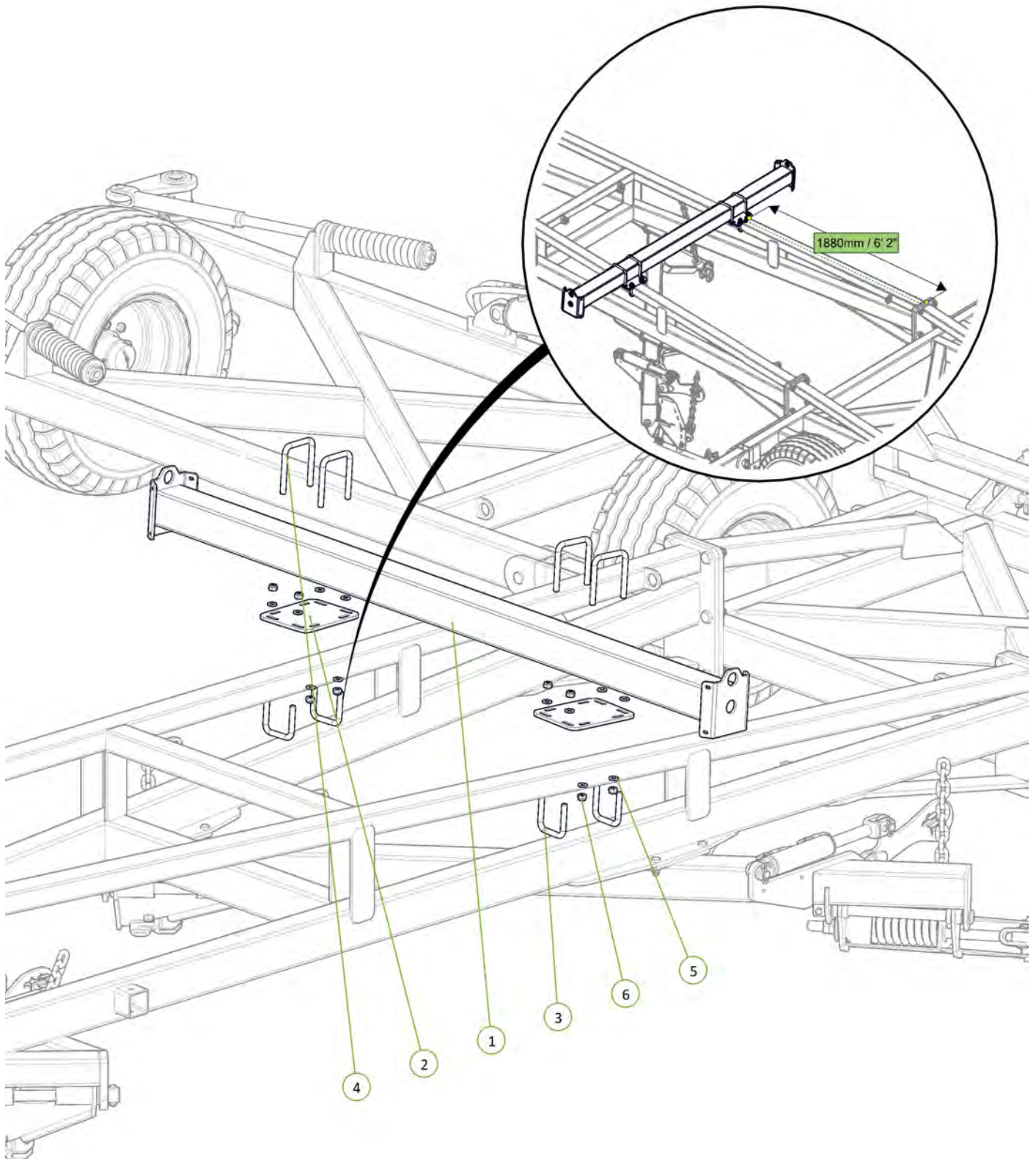
| Item No. | Description | Number | Qty |
|----------|---|---------------|-----|
| 1 | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2 |



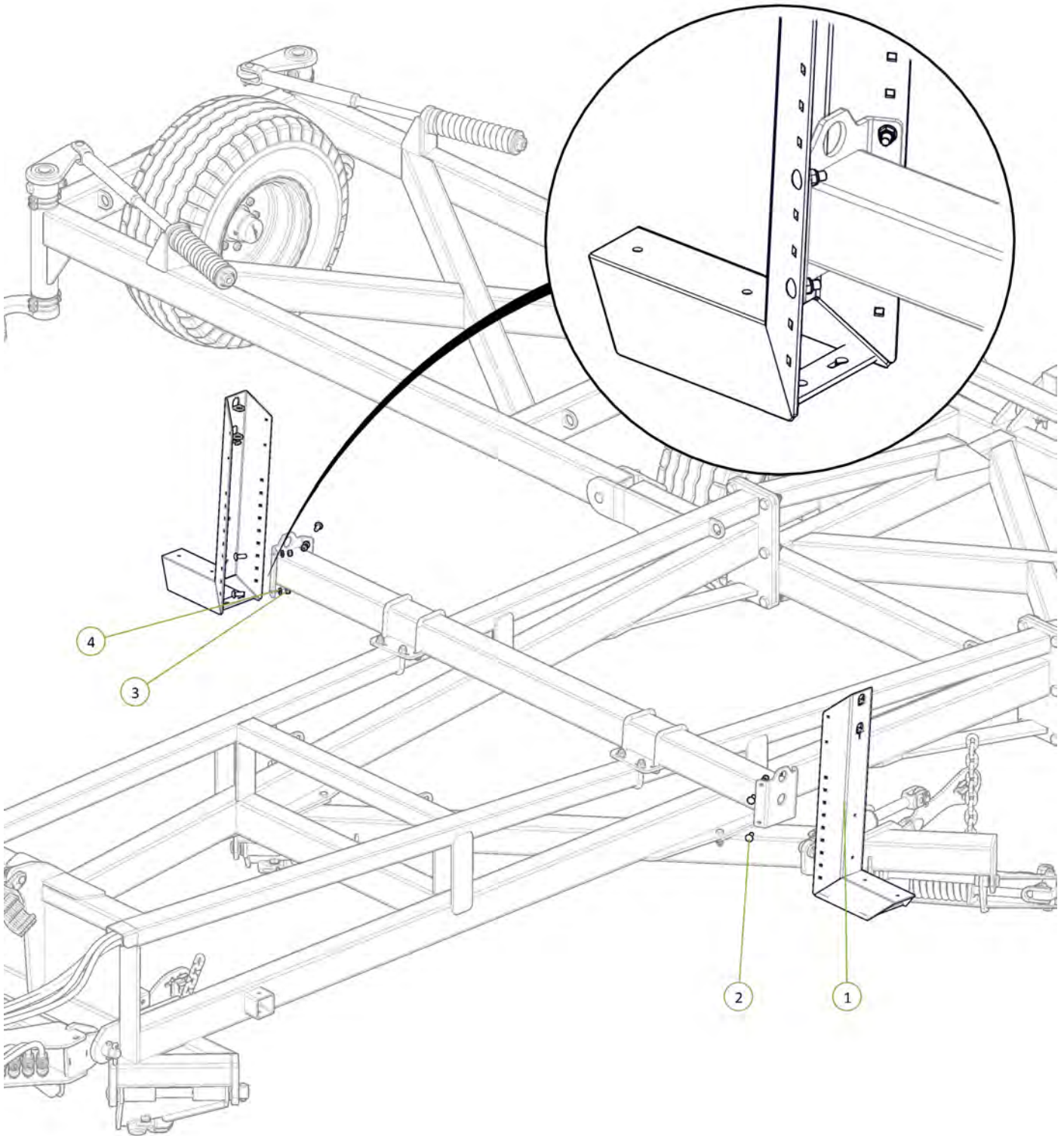
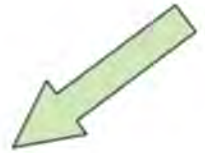
| Item No. | Description | Number | Qty |
|----------|---|----------|-----|
| 1 | Front Module EXT Port to Valve FME Port | PH30S-03 | 1 |
| 2 | Front Module Rod Port to Valve FMR Port | PH30S-04 | 1 |



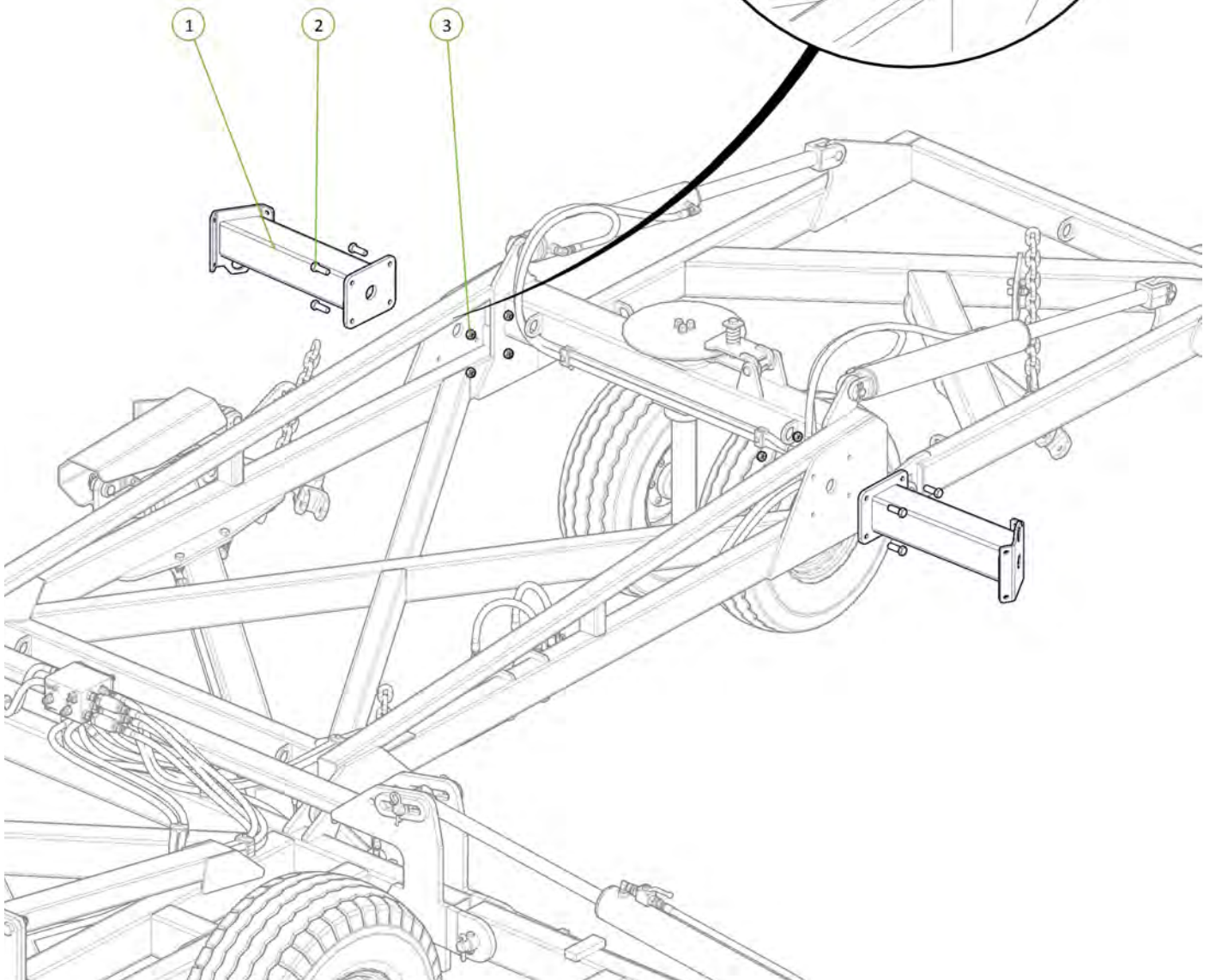
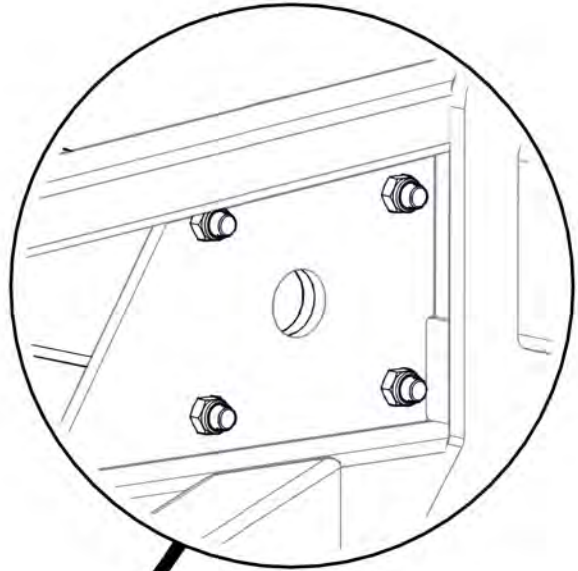
| Item No. | Description | Number | Qty |
|----------|----------------------------------|---------------|-----|
| 1 | 30' Chain Carrier Beam | 0810-17-30 | 1 |
| 2 | Chain Carrier Mount Plate | 0800-139.1 | 2 |
| 3 | U-Bolt M16 x 114 Deep x 106 Wide | 0271-16112104 | 4 |
| 4 | U-Bolt M16 x 162 Deep x 129 Wide | 0271-16160127 | 4 |
| 5 | Washer Flat M16 | 0231-F16 | 16 |
| 6 | Nyloc Nut M16 | 0221-NYL16 | 16 |



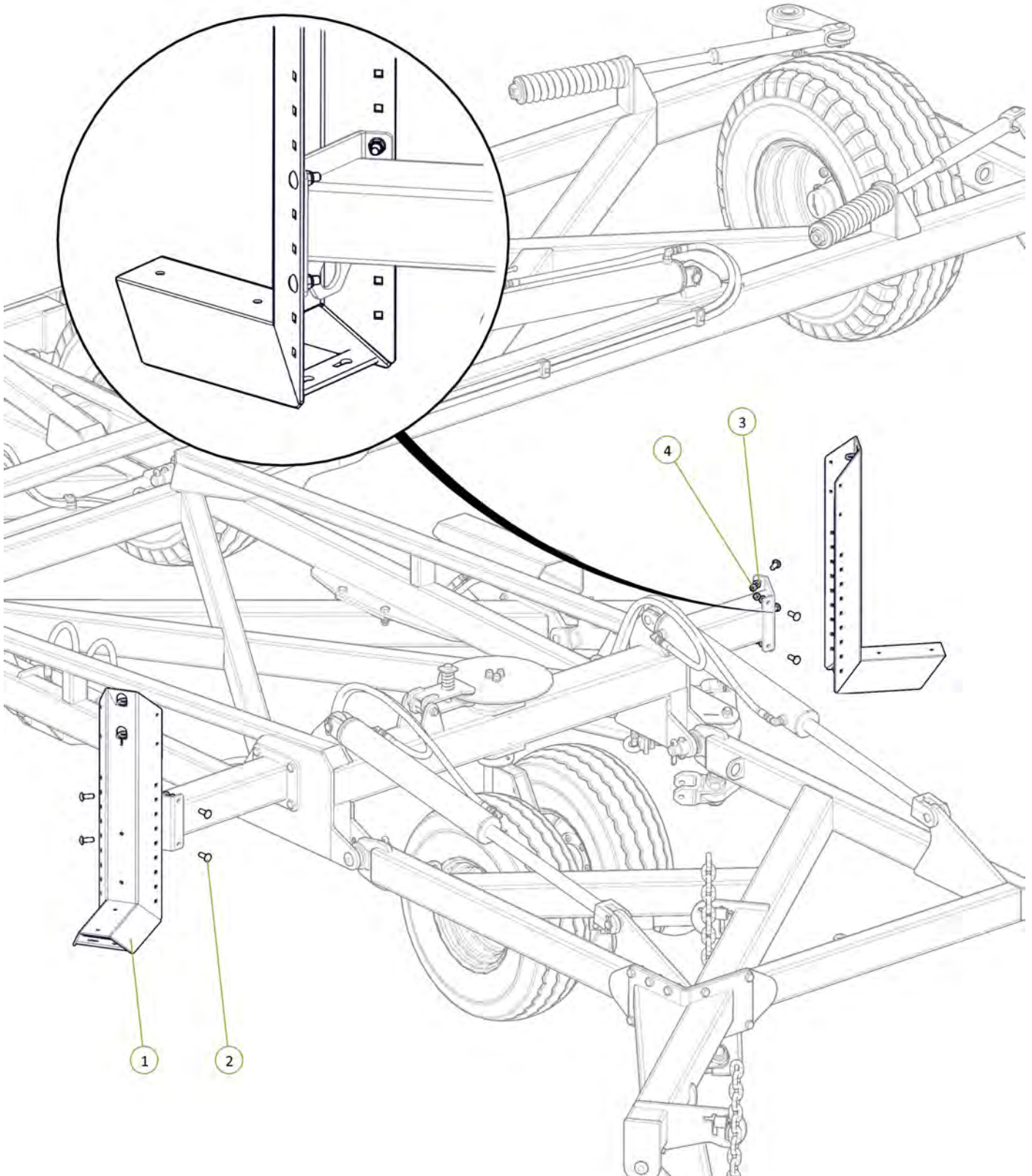
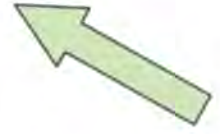
| Item No. | Description | Number | Qty |
|----------|---------------------------|-------------|-----|
| 1 | Chain Carrier Bolt on End | 0810-17L | 2 |
| 2 | M12 x 40 Coach Head Bolt | 0215-CH1240 | 8 |
| 3 | Nyloc Nut M12 | 0221-NYL12 | 8 |
| 4 | Washer Flat M12 | 0231-F12 | 8 |



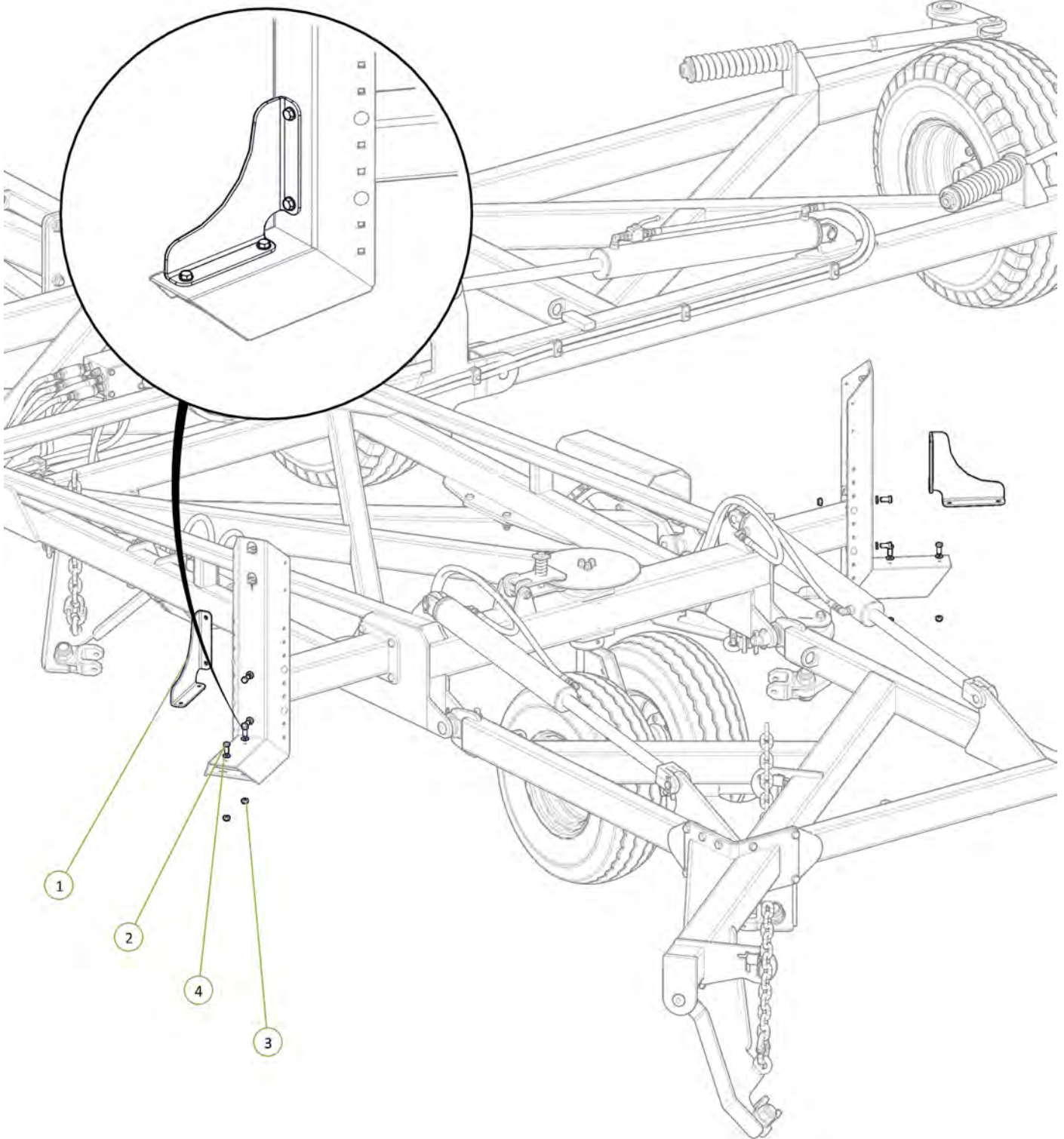
| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | Outrigger | 0810-109 | 2 |
| 2 | M16 x 50 grade 8.8 zp Bolt | 0211-1650 | 8 |
| 3 | Nyloc Nut M16 | 0221-NYL16 | 8 |



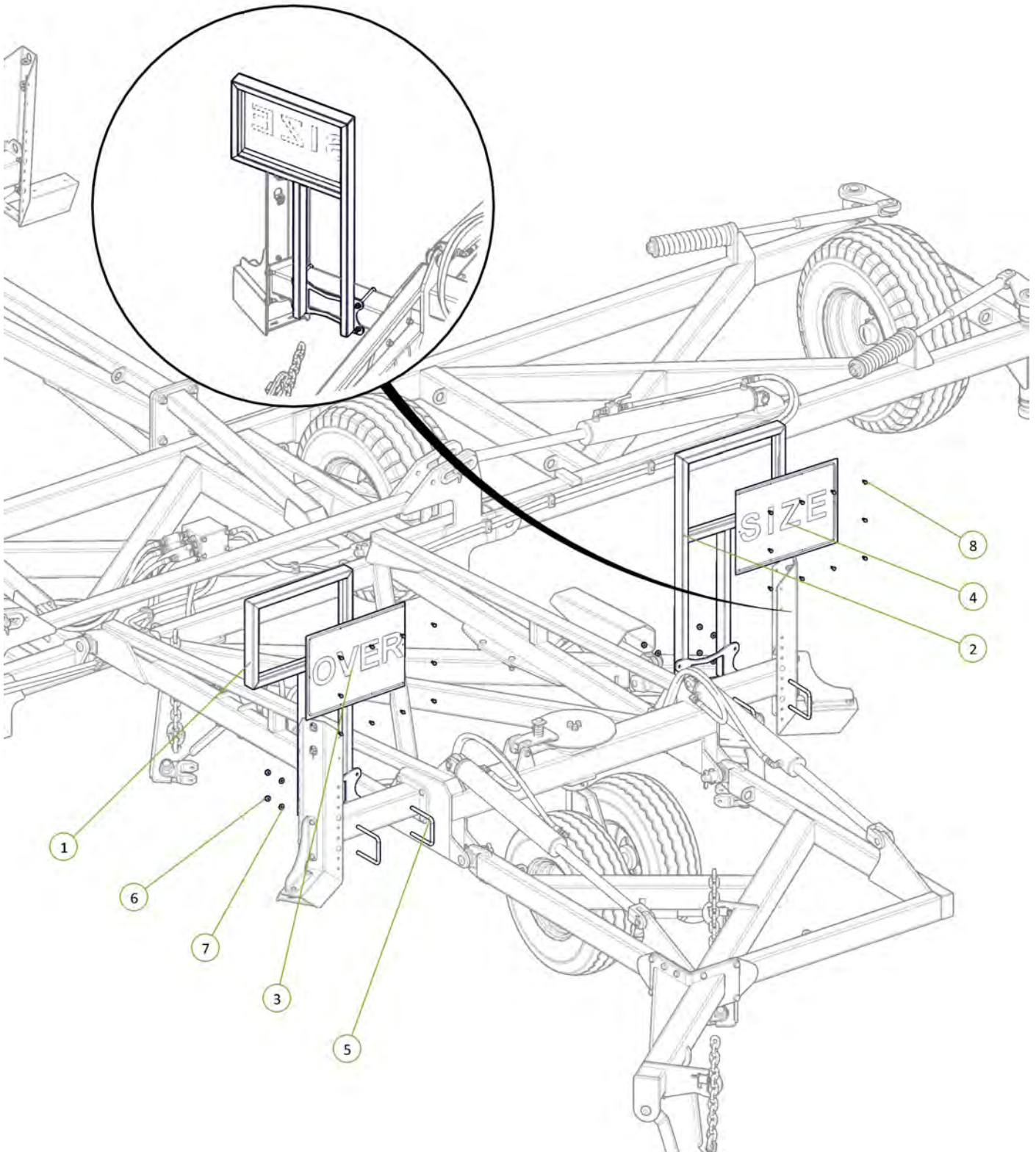
| Item No. | Description | Number | Qty |
|----------|---------------------------|-------------|-----|
| 1 | Chain Carrier Bolt on End | 0810-17L | 2 |
| 2 | M12 x 40 Coach Head Bolt | 0215-CH1240 | 8 |
| 3 | Washer Flat M12 | 0231-F12 | 8 |
| 4 | Nyloc Nut M12 | 0221-NYL12 | 8 |

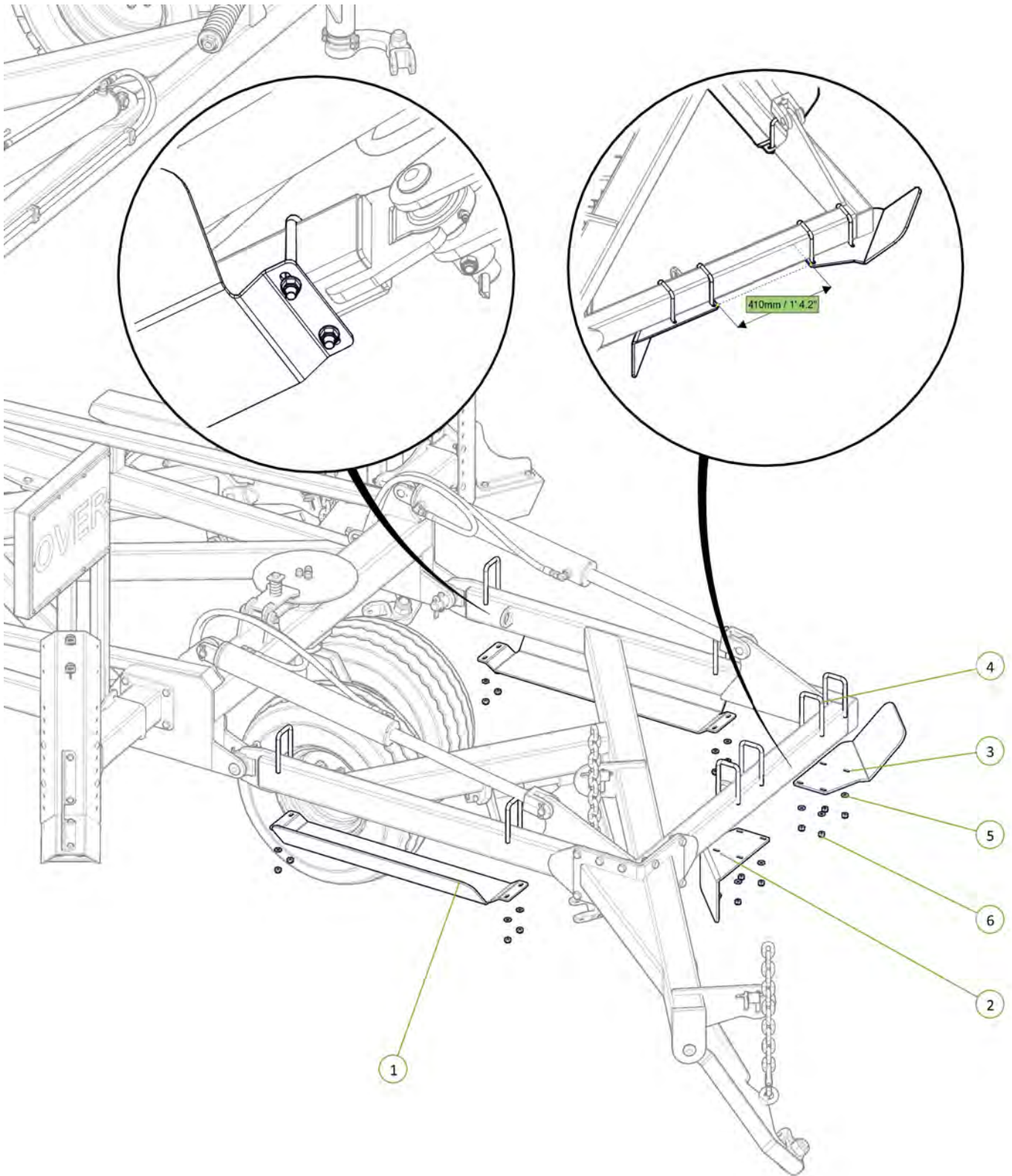


| Item No. | Description | Number | Qty |
|----------|----------------------------|------------|-----|
| 1 | 30' Chain Retainer Plate | 0800-360 | 2 |
| 2 | M12 x 30 grade 8.8 ZP Bolt | 0211-1230 | 8 |
| 3 | Nyloc Nut M12 | 0221-NYL12 | 8 |
| 4 | Washer Flat M12 | 0231-F12 | 8 |



| Item No. | Description | Number | Qty |
|----------|----------------------------------|-----------------|-----|
| 1 | LH Oversize Sign Frame | 0810-110 | 1 |
| 2 | RH Oversize Sign Frame | 0810-111 | 1 |
| 3 | Oversize Sign Left Hand | 0801-SIGNOSL | 1 |
| 4 | Oversize Sign Right Hand | 0801-SIGNOSR | 1 |
| 5 | U-Bolt M12 x 157 Deep x 129 Wide | 0271-12155127 | 4 |
| 6 | Nyloc Nut M12 | 0221-NYL12 | 8 |
| 7 | Washer Flat M12 | 0231-F12 | 8 |
| 8 | TEK Screw 10g 16 x 16 | 0241-TEK10-1616 | 20 |

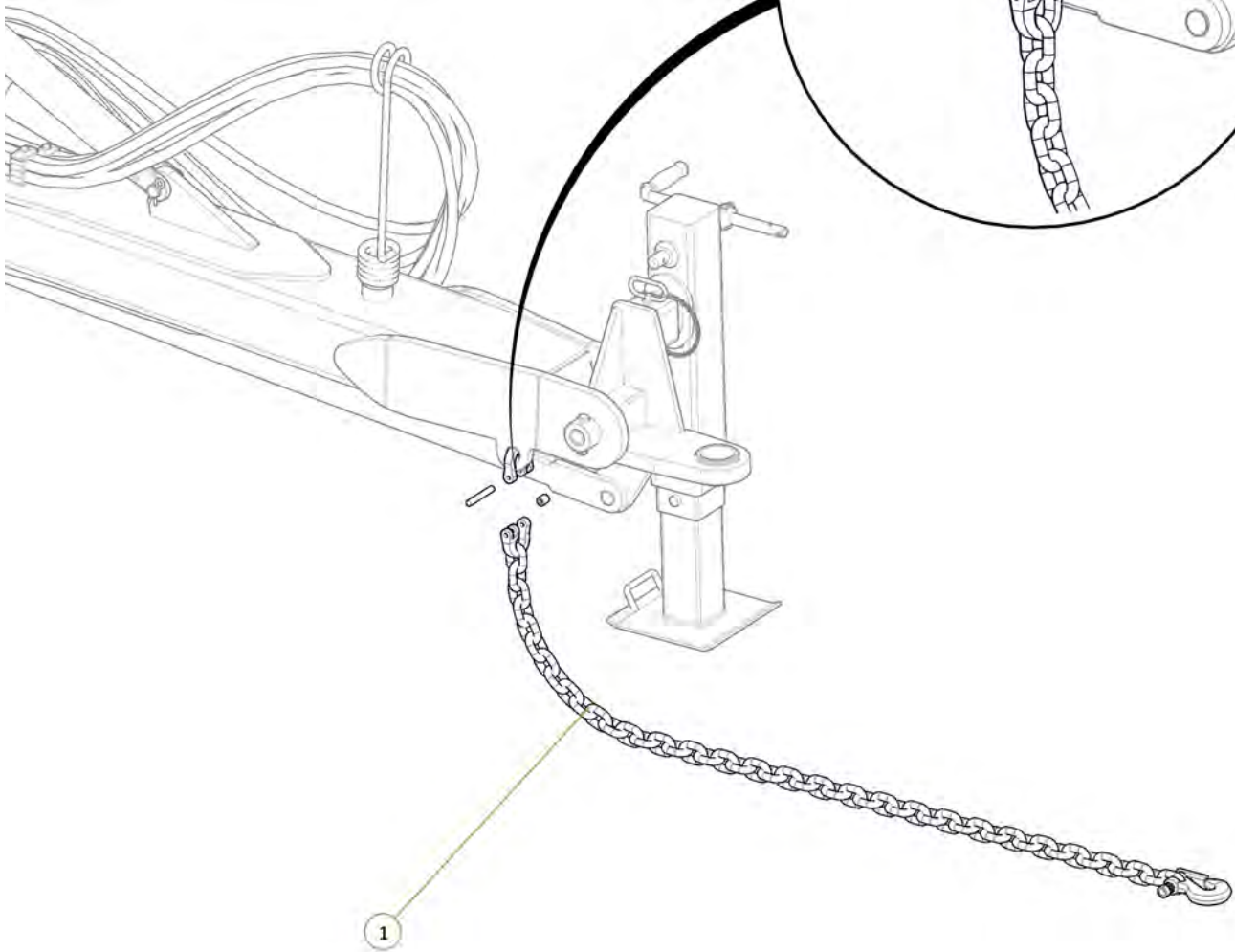




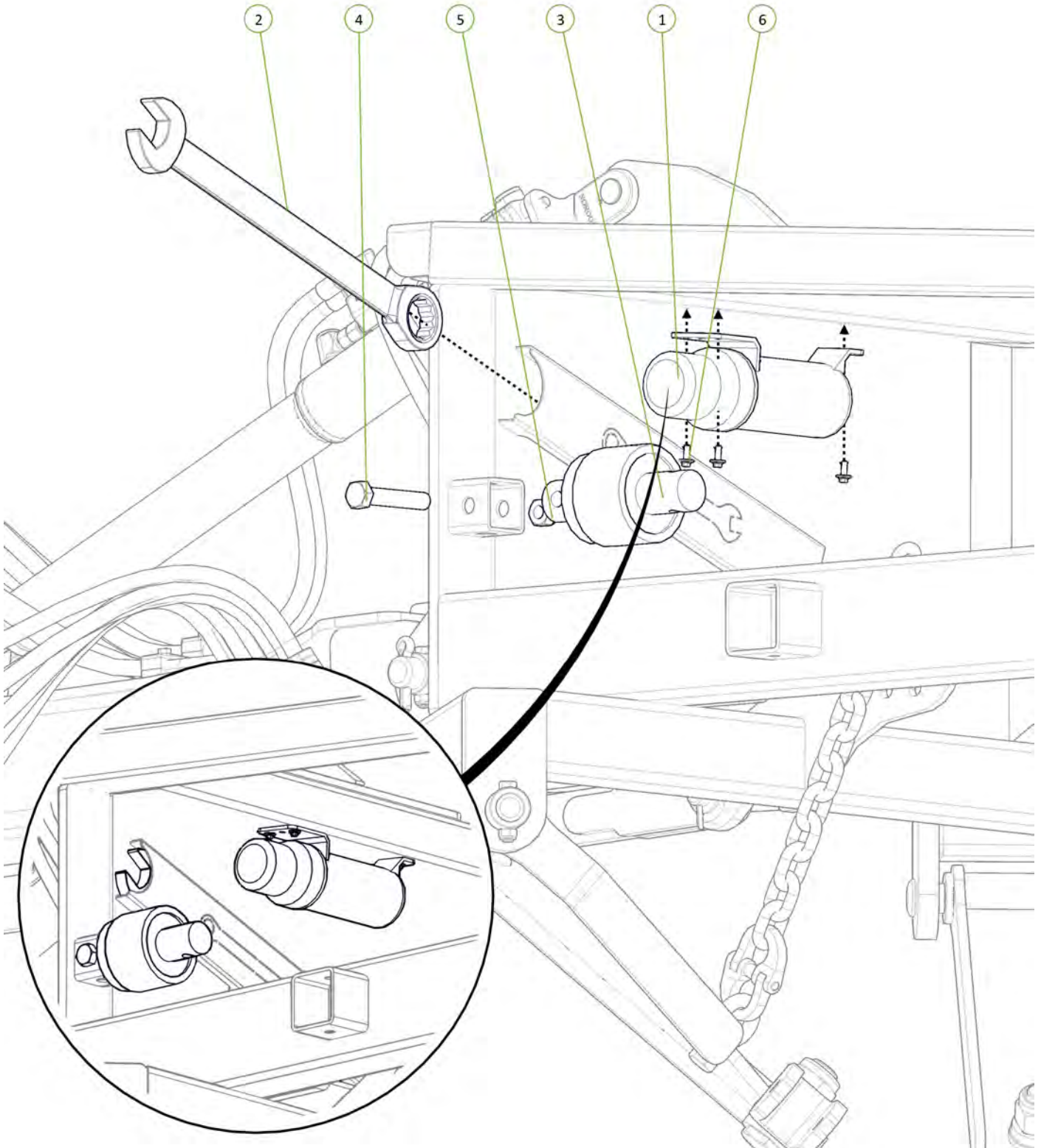
| Item No. | Description | Number | Qty |
|----------|---------------------------------|--------------|-----|
| 1 | Rear Tail Guard | 0800-235 | 2 |
| 2 | Tail Chain Stop Guard | 0800-220.1 | 1 |
| 3 | Angled Chain Gaurd | 0800-498 | 1 |
| 4 | U-Bolt M12 x 155 Deep x 77 Wide | 0271-1215577 | 8 |
| 5 | Washer Flat M12 | 0231-F12 | 16 |
| 6 | Nyloc Nut M12 | 0221-NYL12 | 16 |



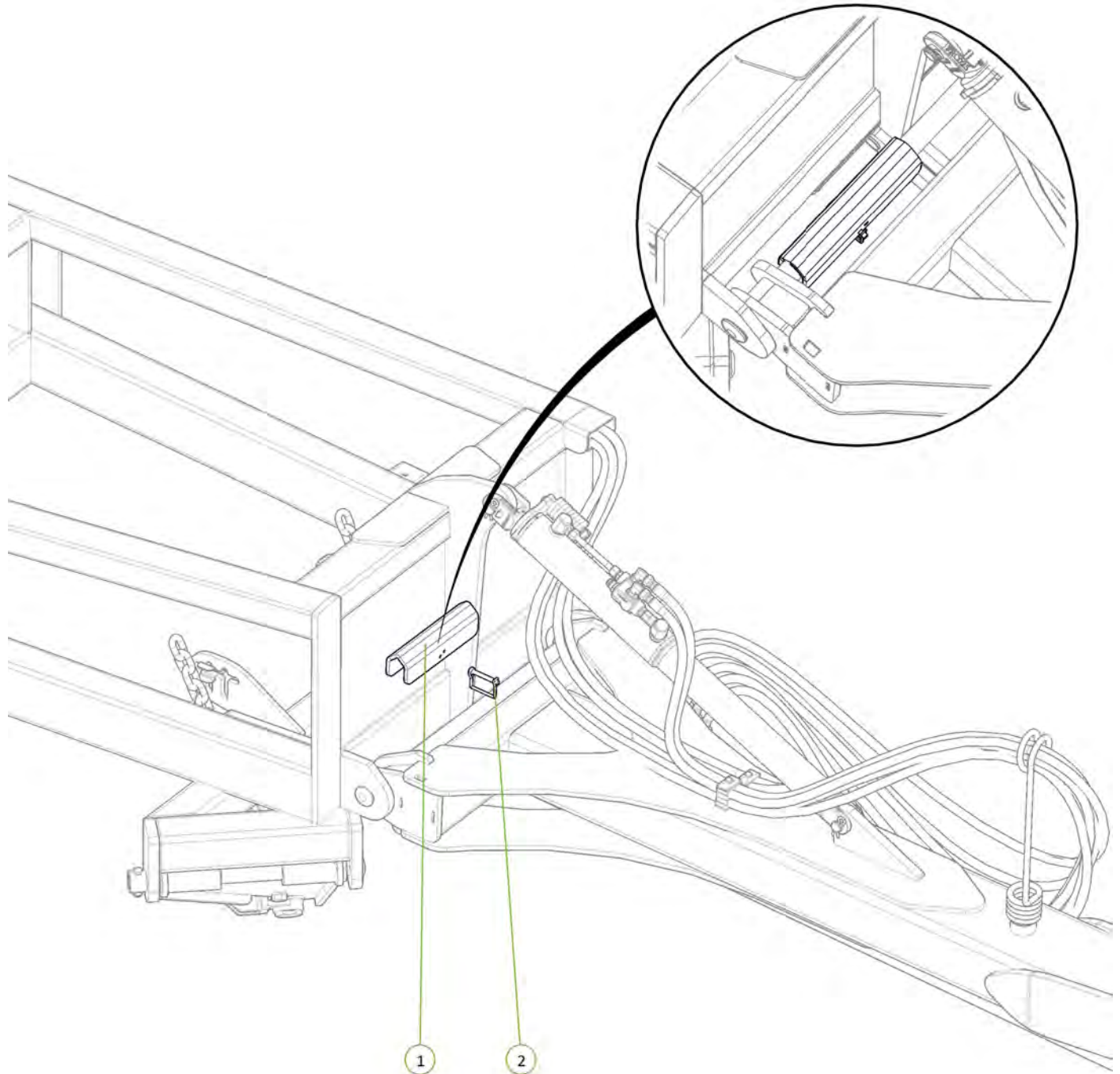
| Item No. | Description | Number | Qty |
|----------|-----------------------|---------|-----|
| 1 | Safety Chain Assembly | 0810-16 | 1 |

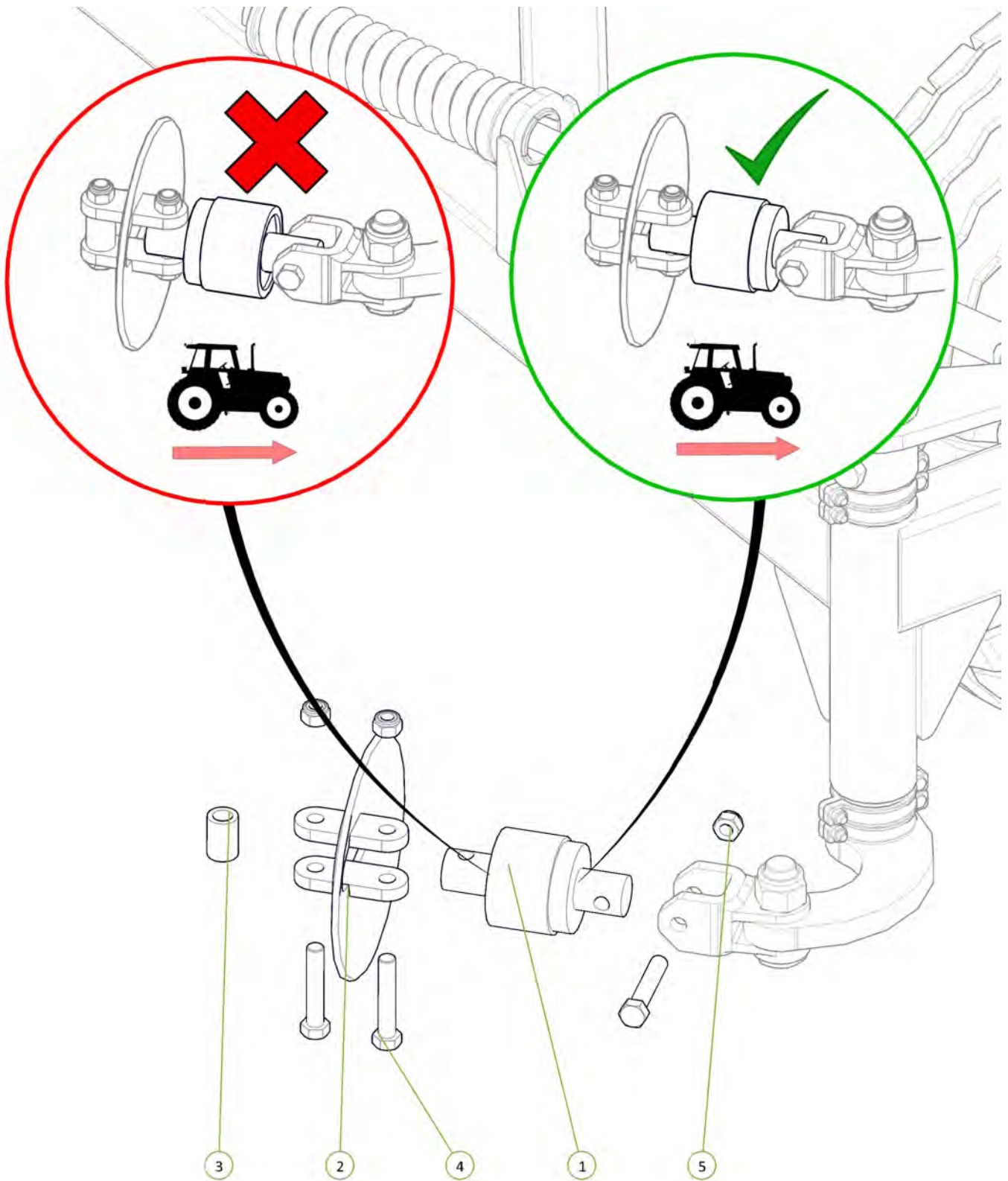


| Item No. | Description | Number | Qty |
|----------|---|-----------------|-----|
| 1 | Operator Manual Cannister | 0801-OMC-1 | 1 |
| 2 | Ratcheting Gear Wrench 1 3/4" | 0802-GW1 3-4 | 1 |
| 3 | 20mm Bolt Swivel Unit | 0802-PCHB55 | 1 |
| 4 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 0211-20110ST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



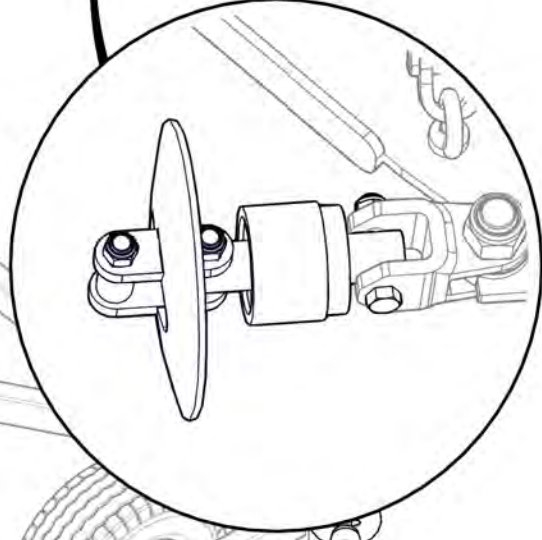
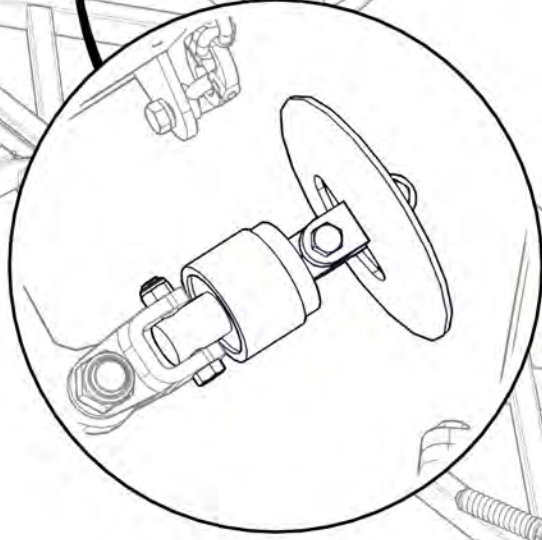
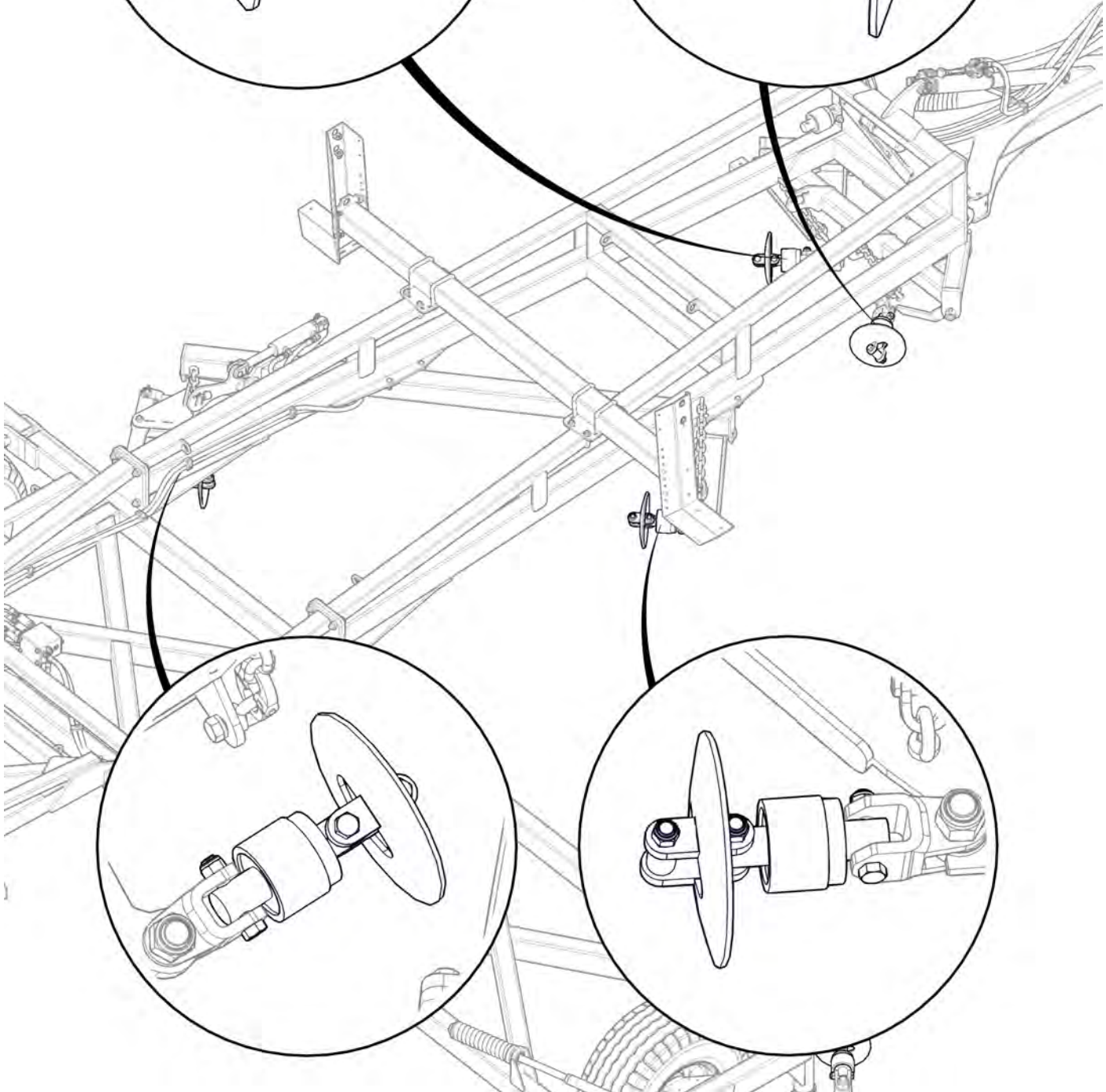
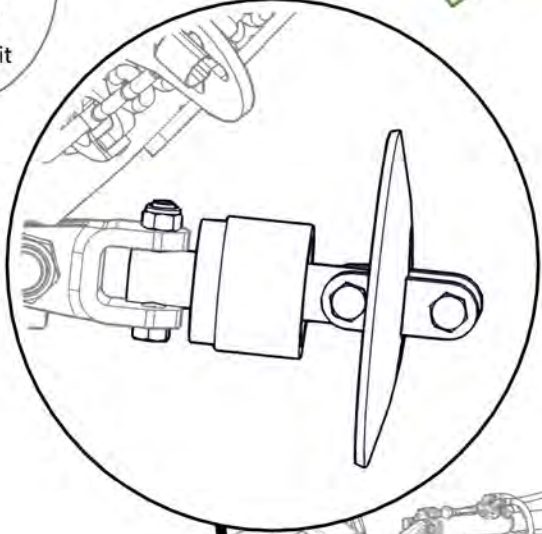
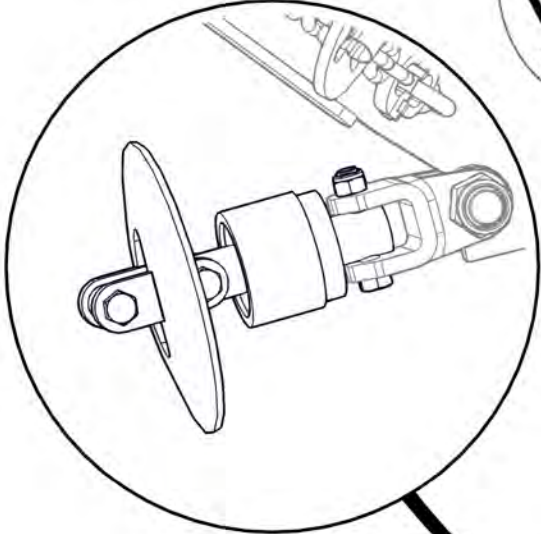
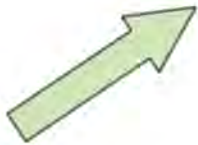
| Item No. | Description | Number | Qty |
|----------|-------------------------|-------------------|-----|
| 1 | Cylinder Safety Stop | 0800-212.1 | 1 |
| 2 | Square Loop Pin M8 x 63 | 0511-PINLOOPSQ863 | 1 |

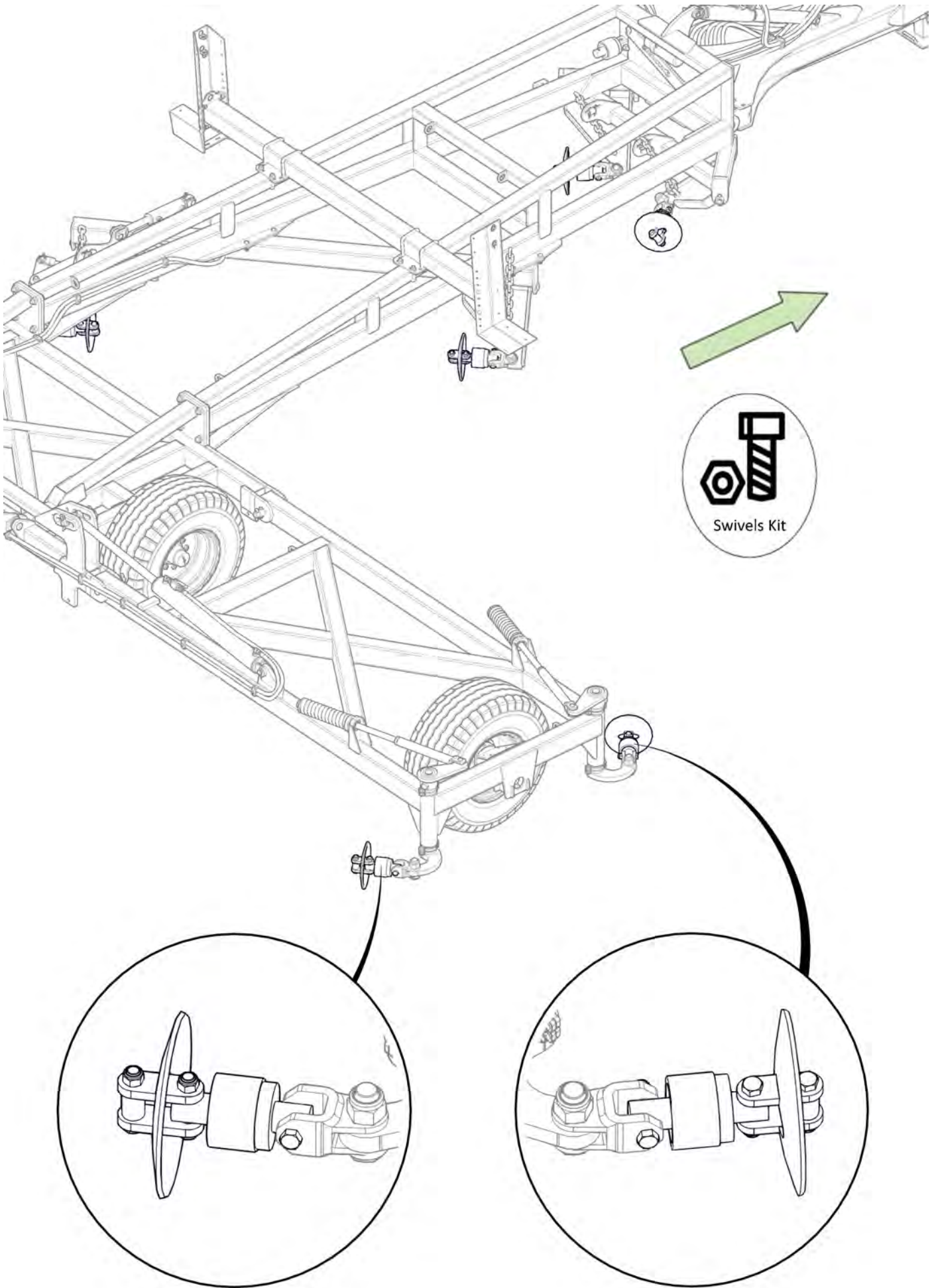


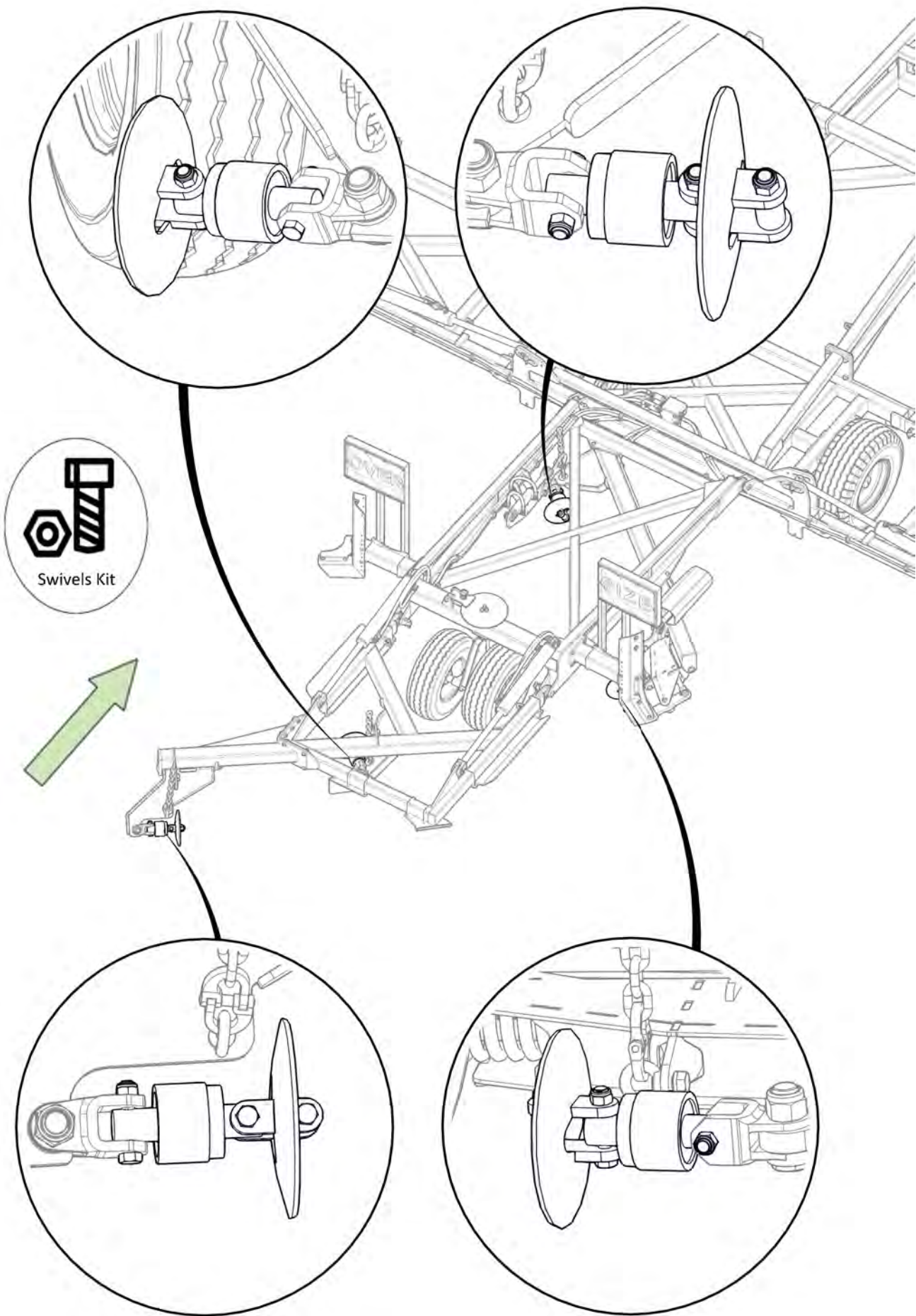


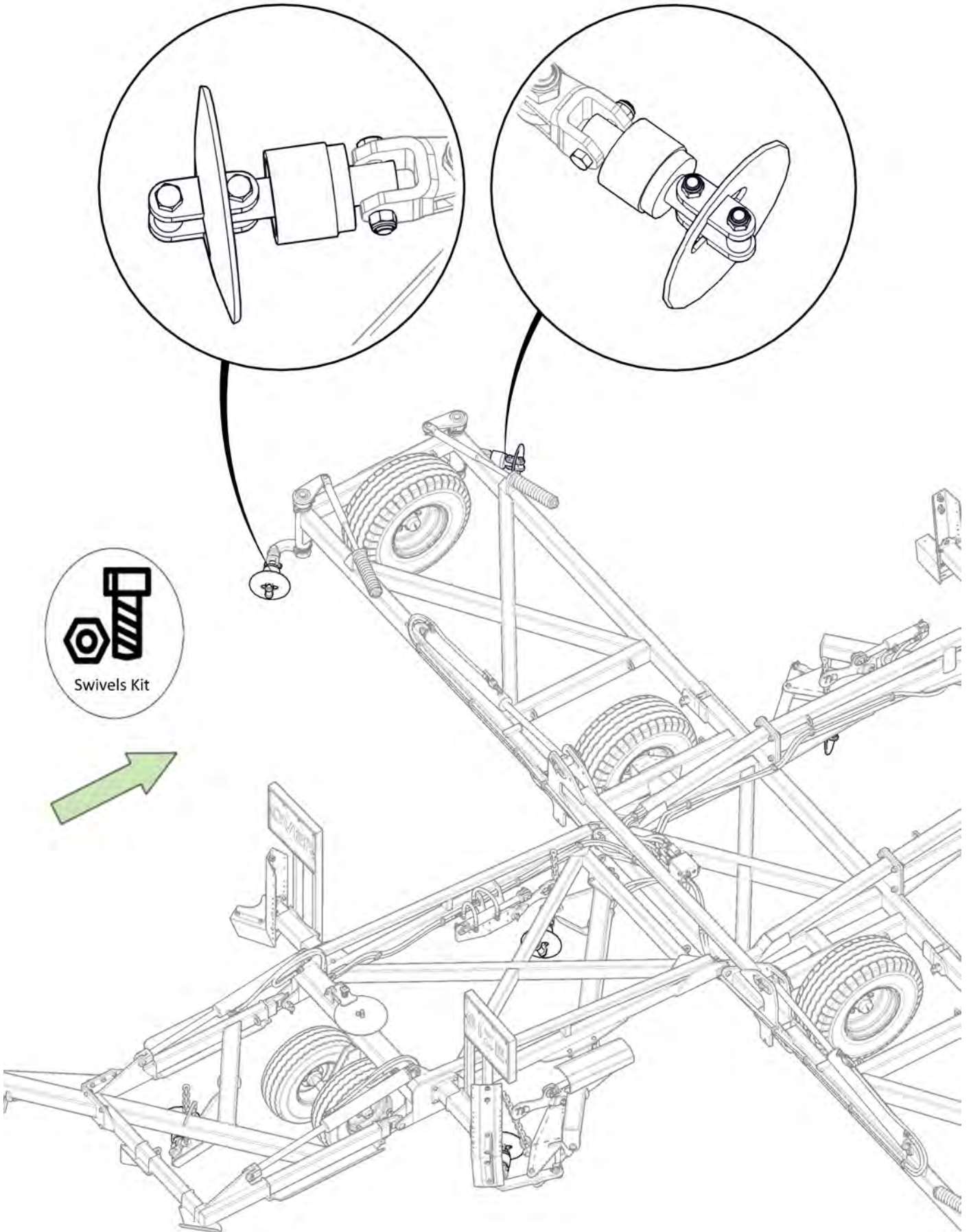
| Item No. | Description | Number | Qty |
|----------|---|--------------|-----|
| 1 | 20mm Bolt Swivel Unit | 0802-PCHB55 | 1 |
| 2 | Disc Chain Tie Plate Link 20mm | 0802-DCTP-20 | 1 |
| 3 | Tie Plate Bush | 0801-PCDCS55 | 1 |
| 4 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 0211-20110ST | 3 |
| 5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



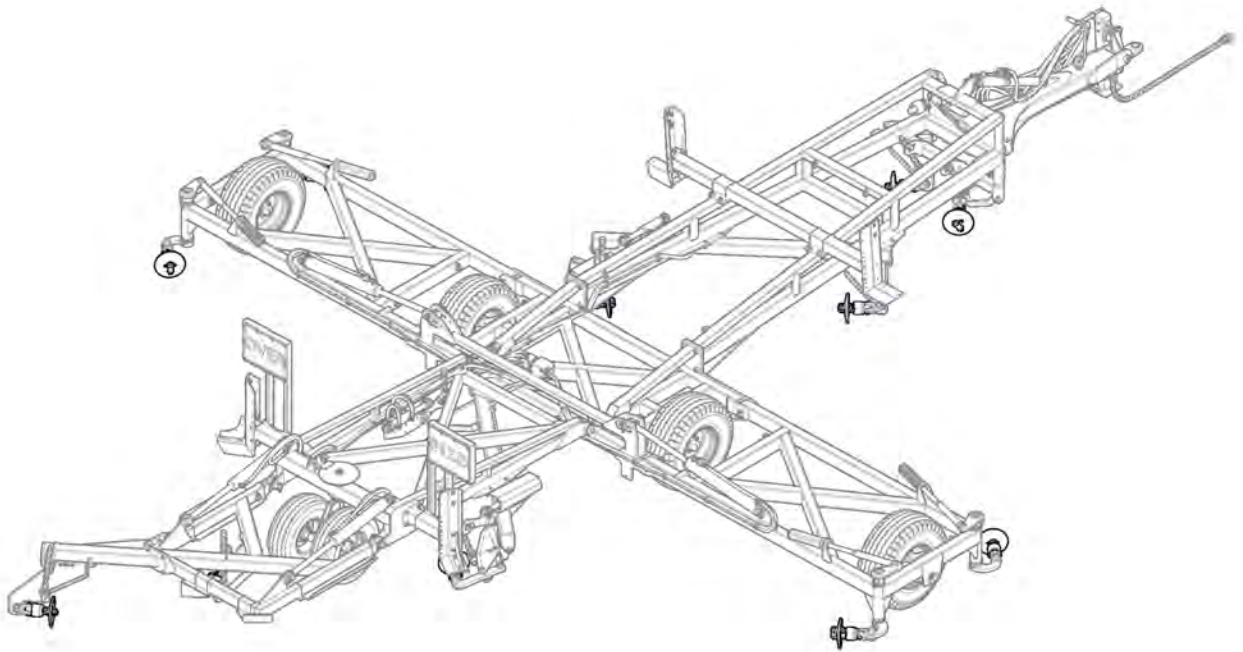








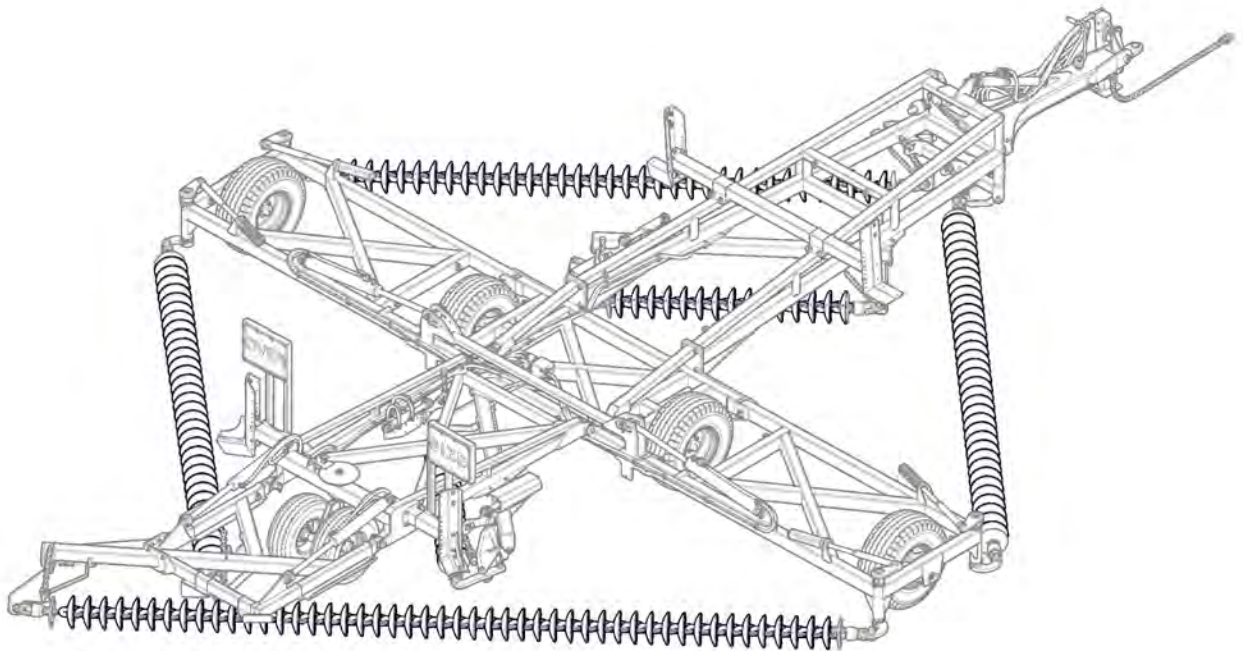
Swivels Kit



All bearings correctly orientated with seal facing rear of the machine

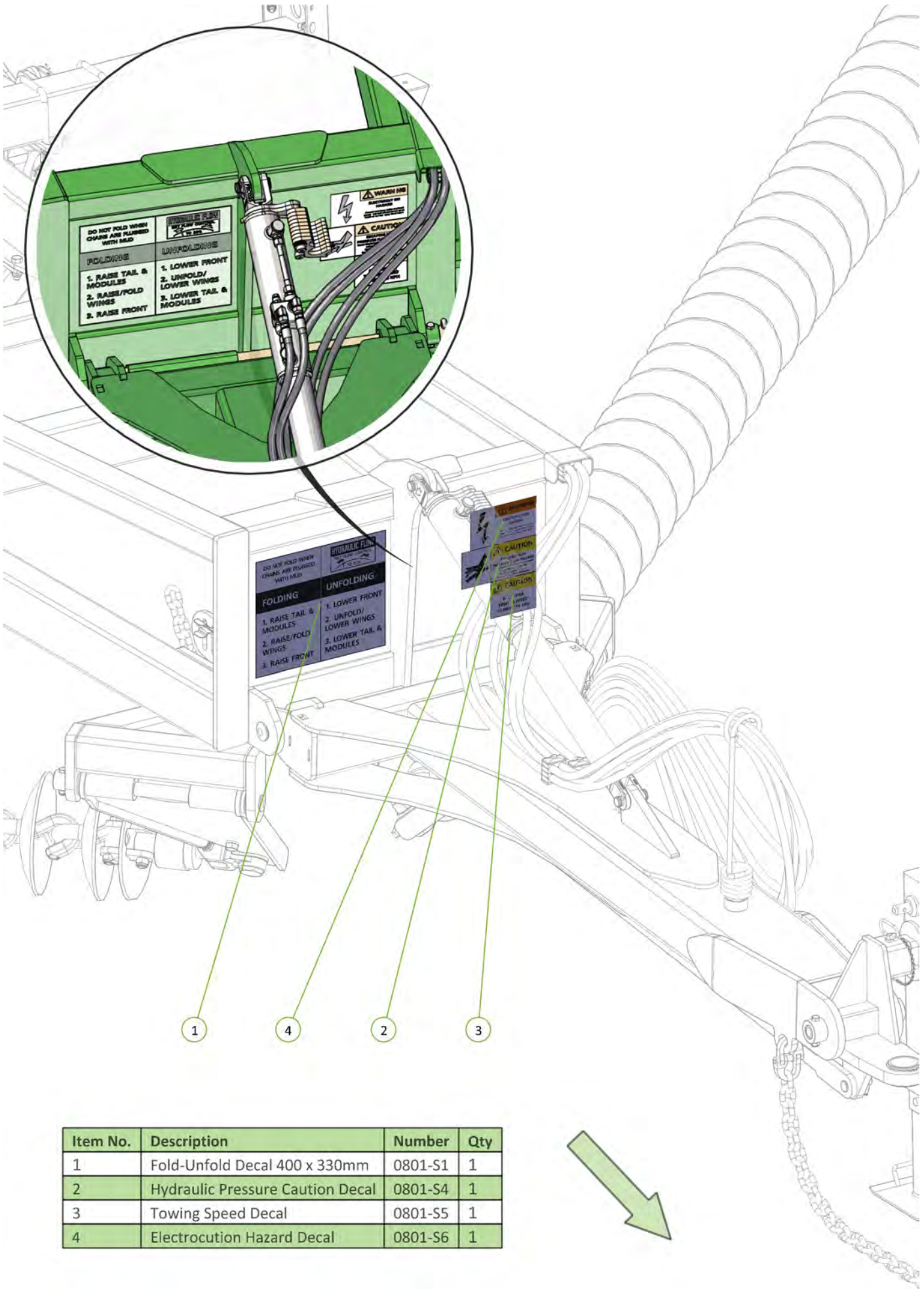


Signed _____ Date ____/____/____
Unit Serial Number: _____



Section 3

Decal Placement

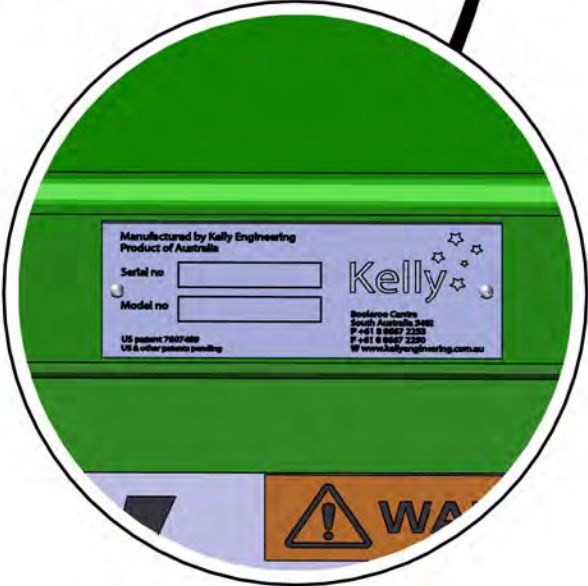
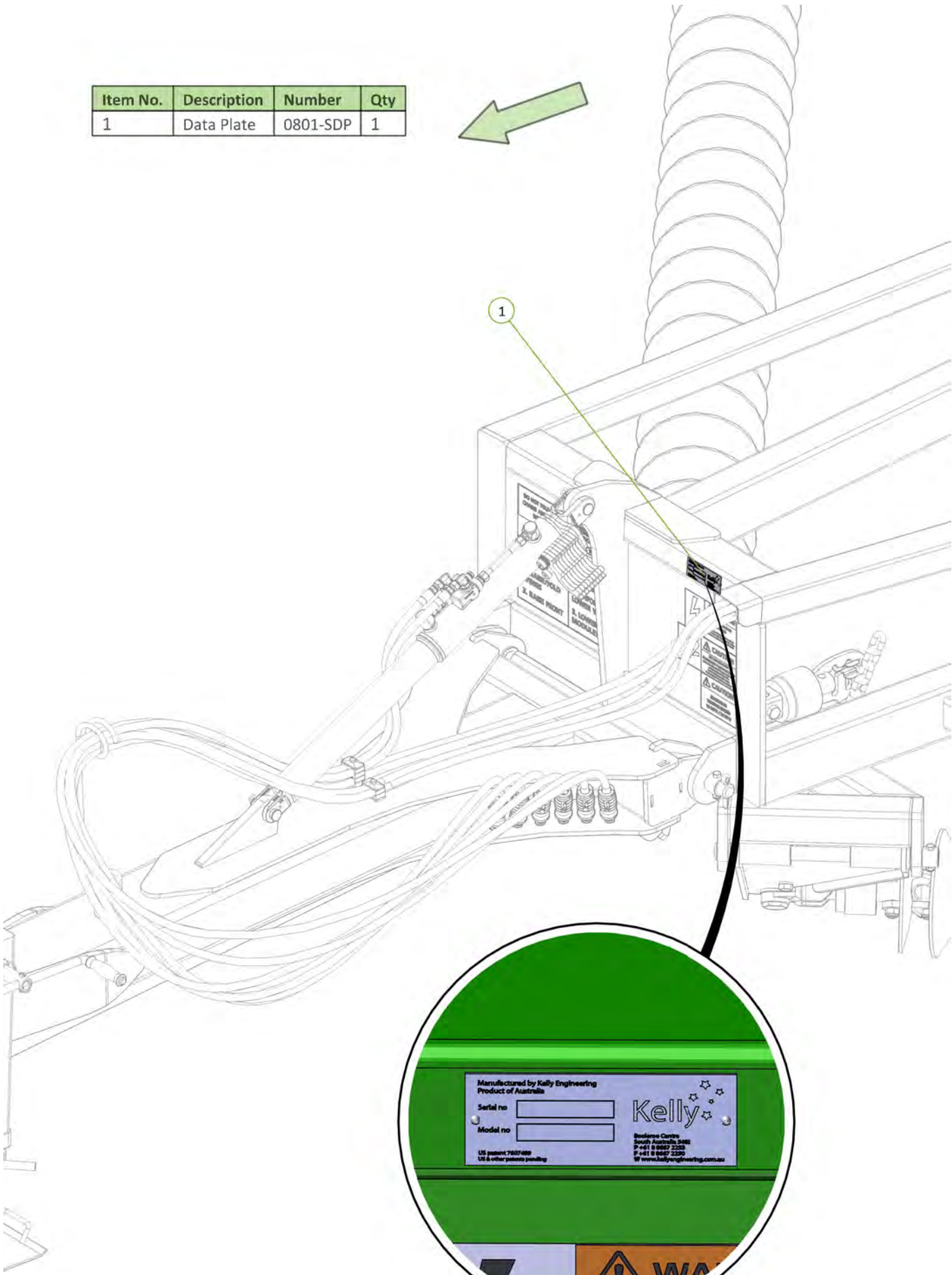


| Item No. | Description | Number | Qty |
|----------|----------------------------------|---------|-----|
| 1 | Fold-Unfold Decal 400 x 330mm | 0801-S1 | 1 |
| 2 | Hydraulic Pressure Caution Decal | 0801-S4 | 1 |
| 3 | Towing Speed Decal | 0801-S5 | 1 |
| 4 | Electrocution Hazard Decal | 0801-S6 | 1 |

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



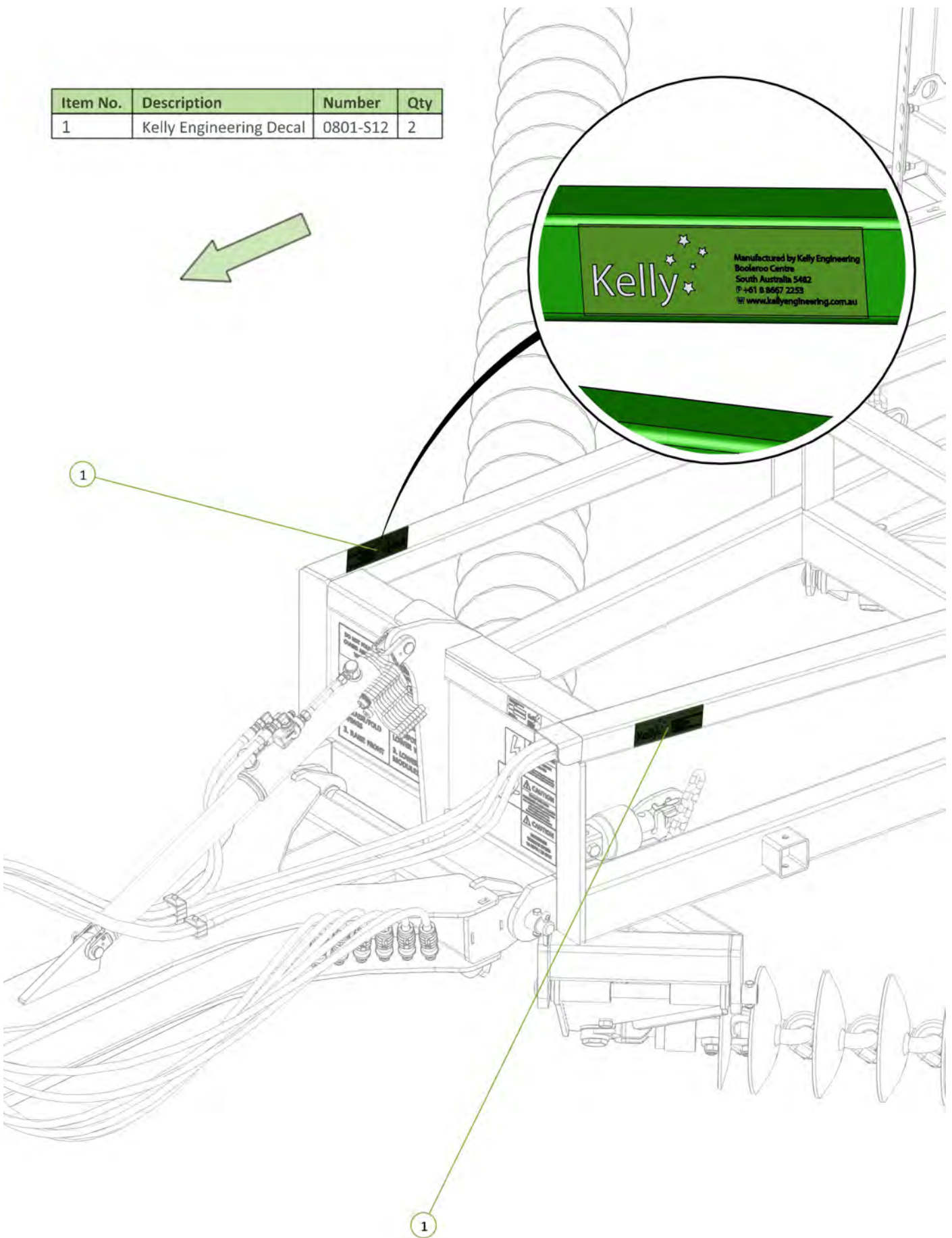
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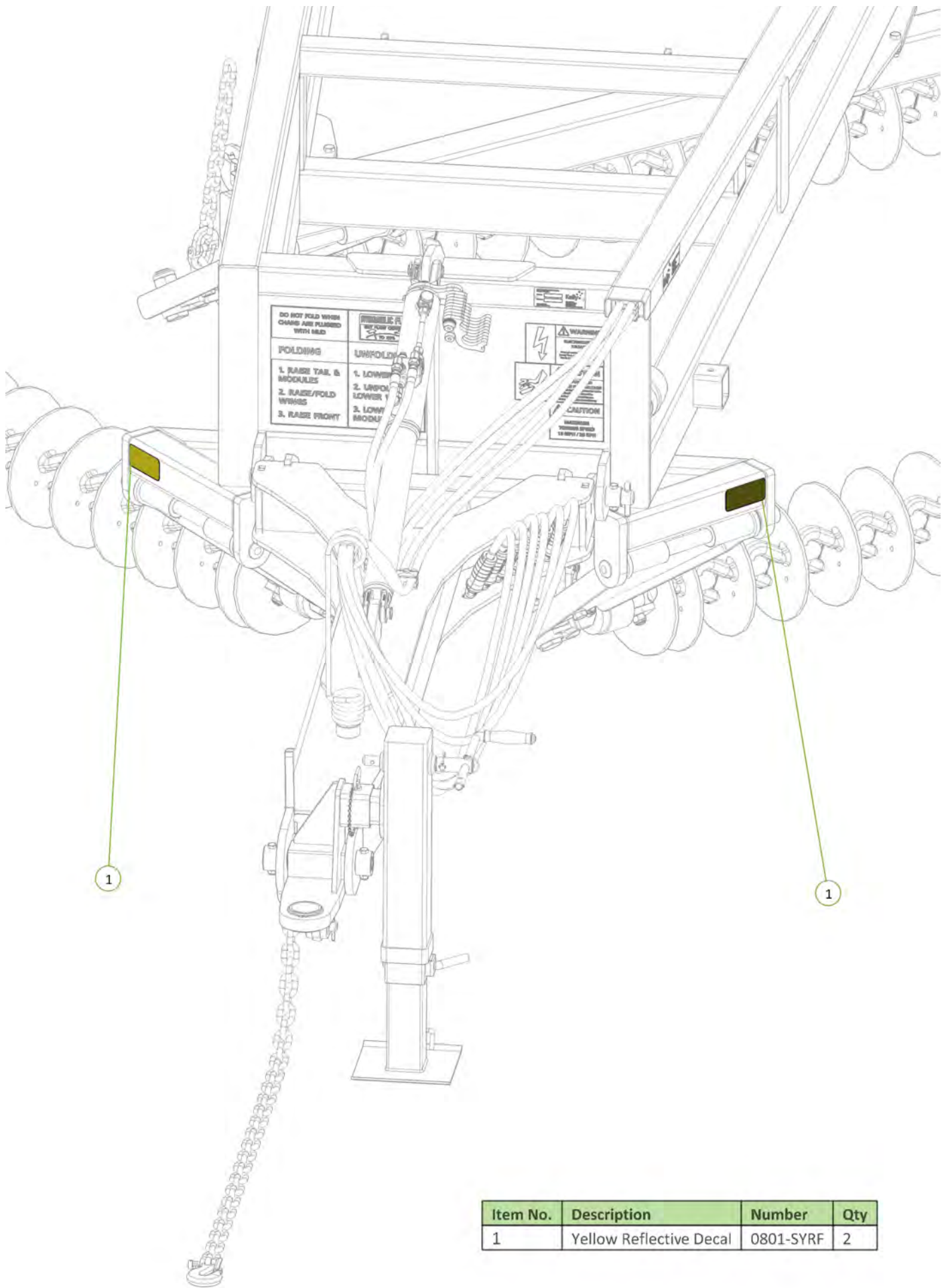
| Item No. | Description | Number | Qty |
|----------|-------------------------|----------|-----|
| 1 | Kelly Engineering Decal | 0801-S12 | 2 |



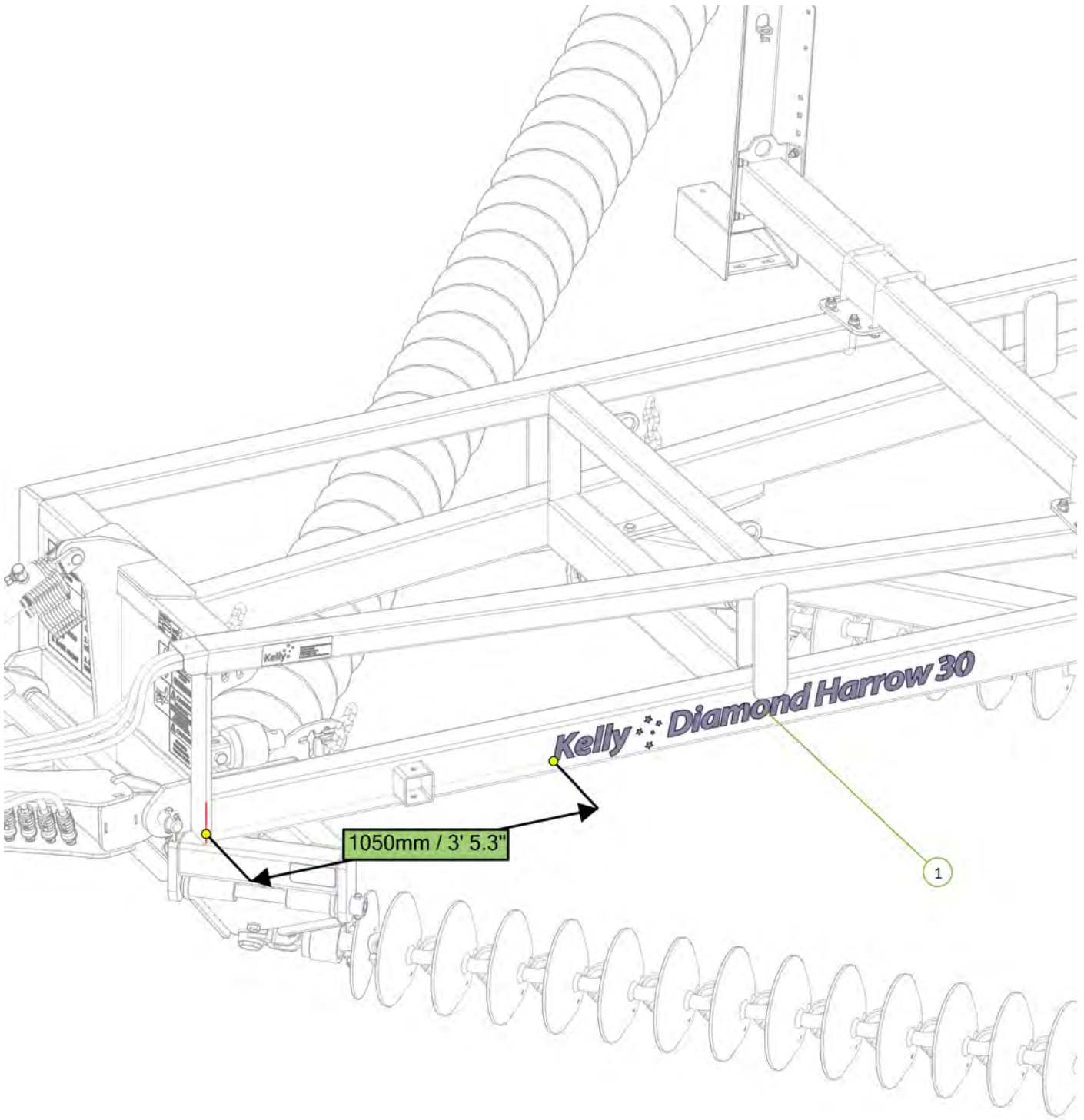
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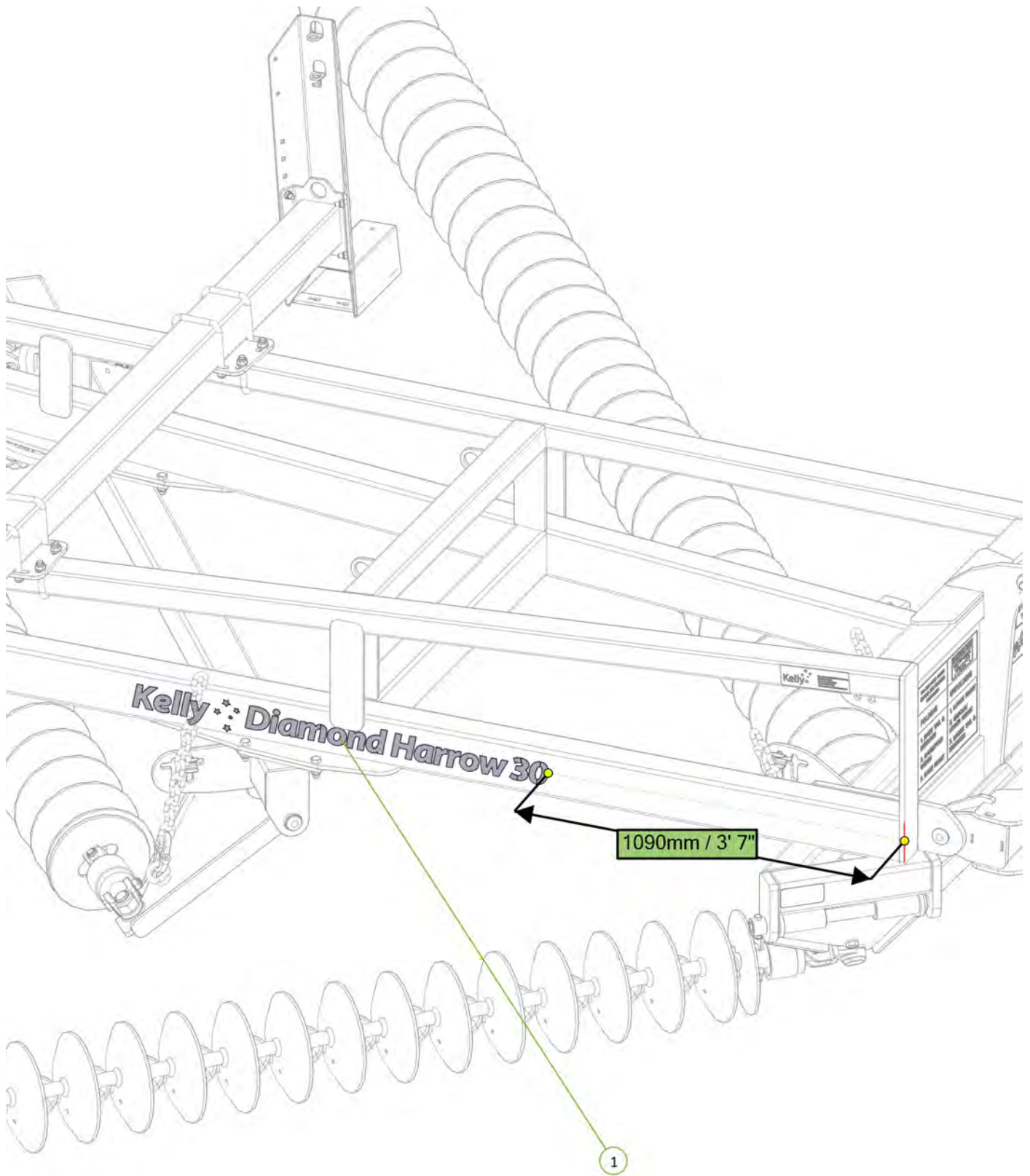


| Item No. | Description | Number | Qty |
|----------|-------------------------|-----------|-----|
| 1 | Yellow Reflective Decal | 0801-SYRF | 2 |



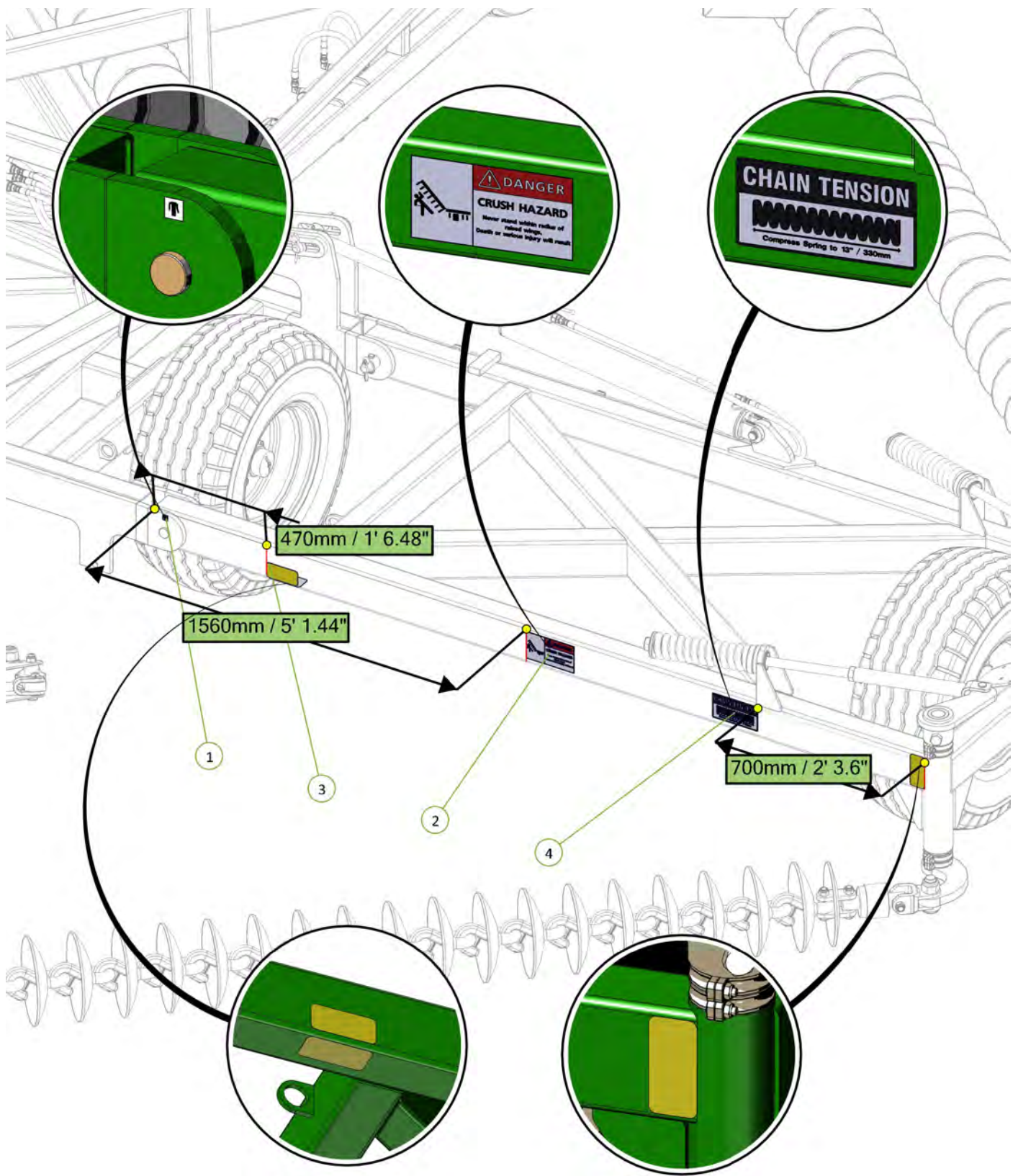
| Item No. | Description | Number | Qty |
|----------|-------------------------|------------|-----|
| 1 | Diamond Harrow 30 Decal | 0801-SKD30 | 1 |





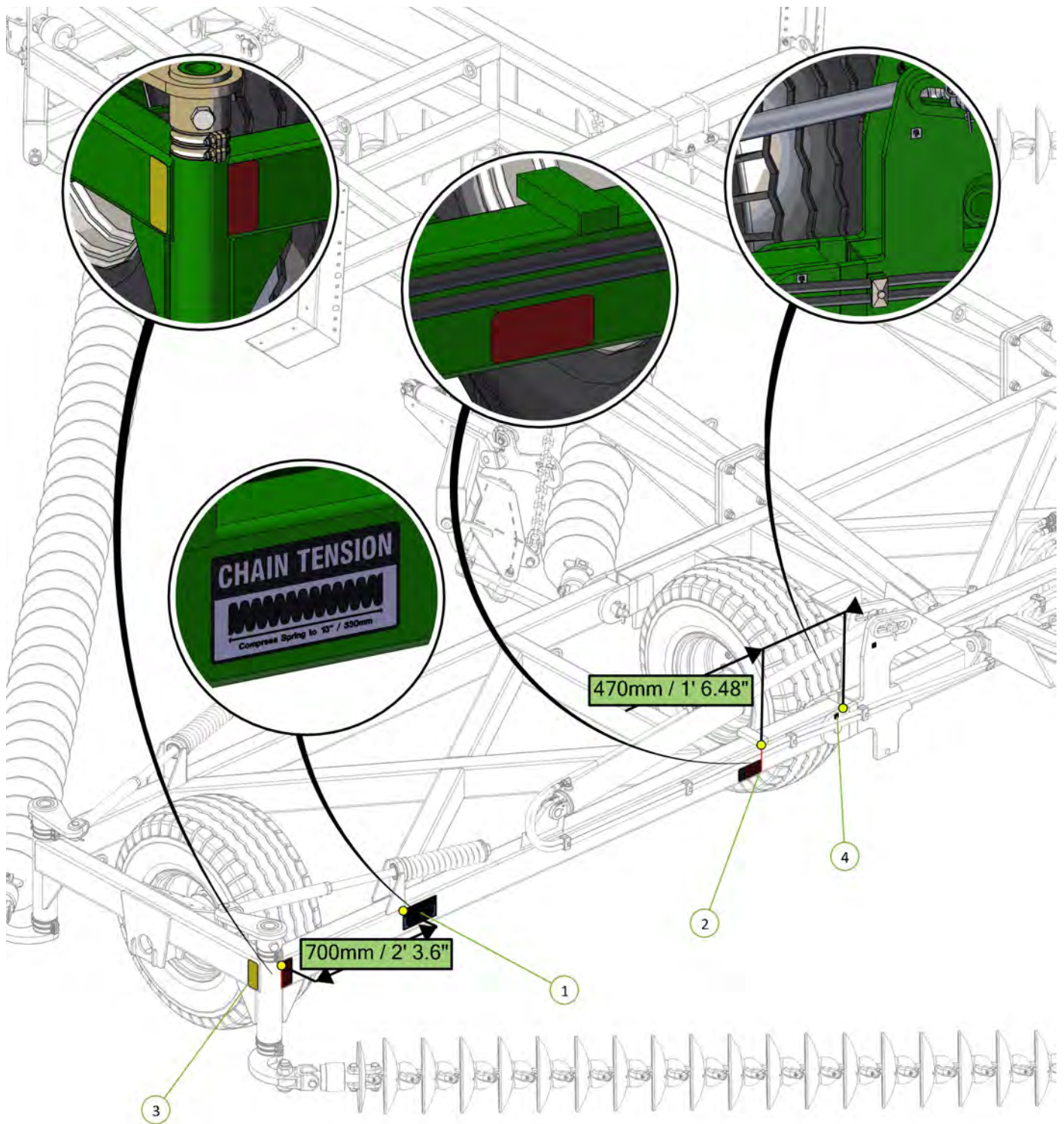
| Item No. | Description | Number | Qty |
|----------|-------------------------|-------------|-----|
| 1 | Diamond Harrow 30 Decal | 0801-SKDH30 | 1 |





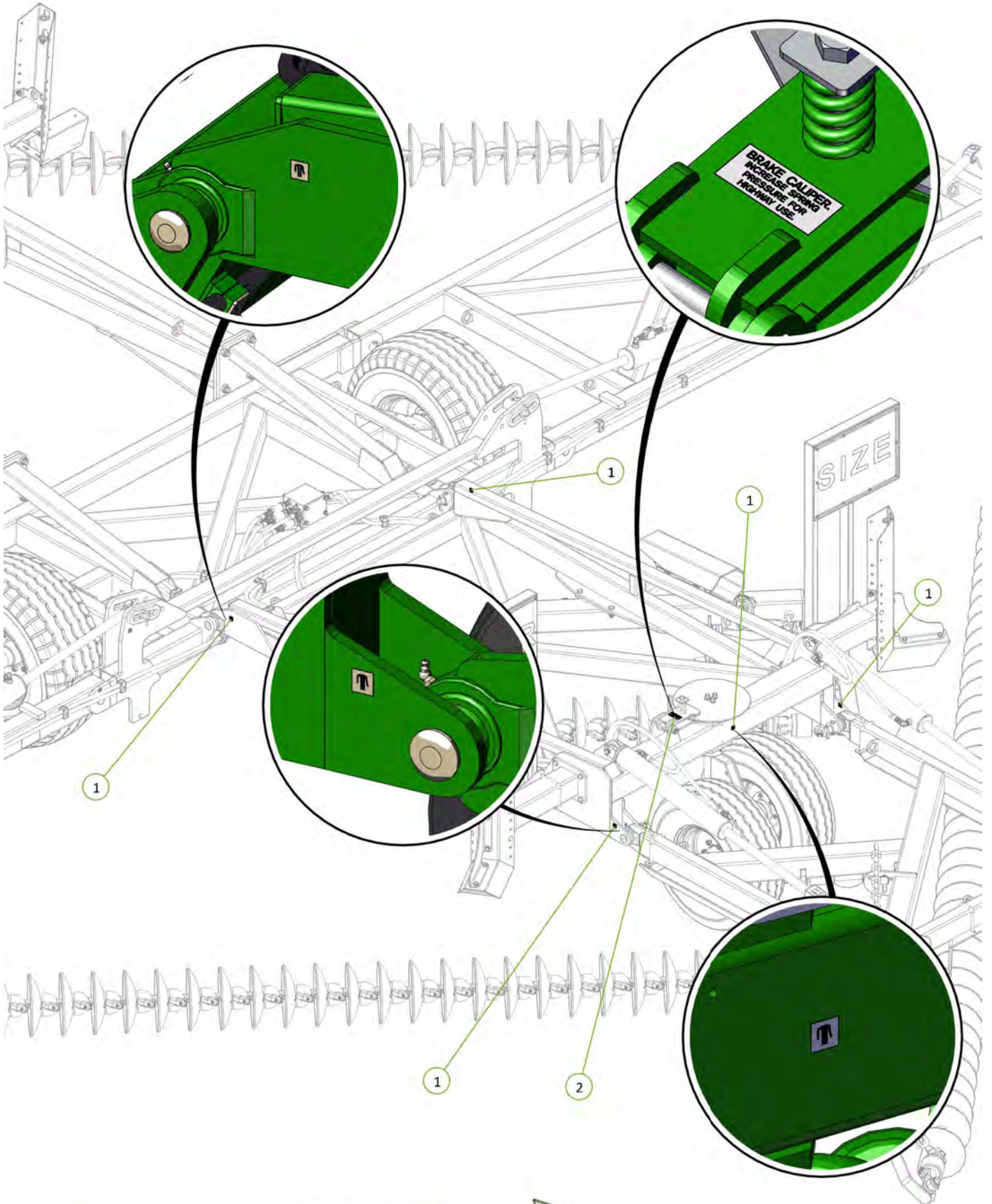
| Item No. | Description | Number | Qty |
|----------|---------------------------|-----------|-----|
| 1 | Grease Decal | 0801-S10 | 1 |
| 2 | Danger Crush Hazard Decal | 0801-S3 | 1 |
| 3 | Yellow Reflective Decal | 0801-SYRF | 3 |
| 4 | Chain Tension 330mm Decal | 0801-S15 | 1 |





| Item No. | Description | Number | Qty |
|----------|---------------------------|-----------|-----|
| 1 | Chain Tension 330mm Decal | 0801-S15 | 1 |
| 2 | Red Reflective Decal | 0801-SRRF | 2 |
| 3 | Yellow Reflective Decal | 0801-SYRF | 1 |
| 4 | Grease Decal | 0801-S10 | 2 |

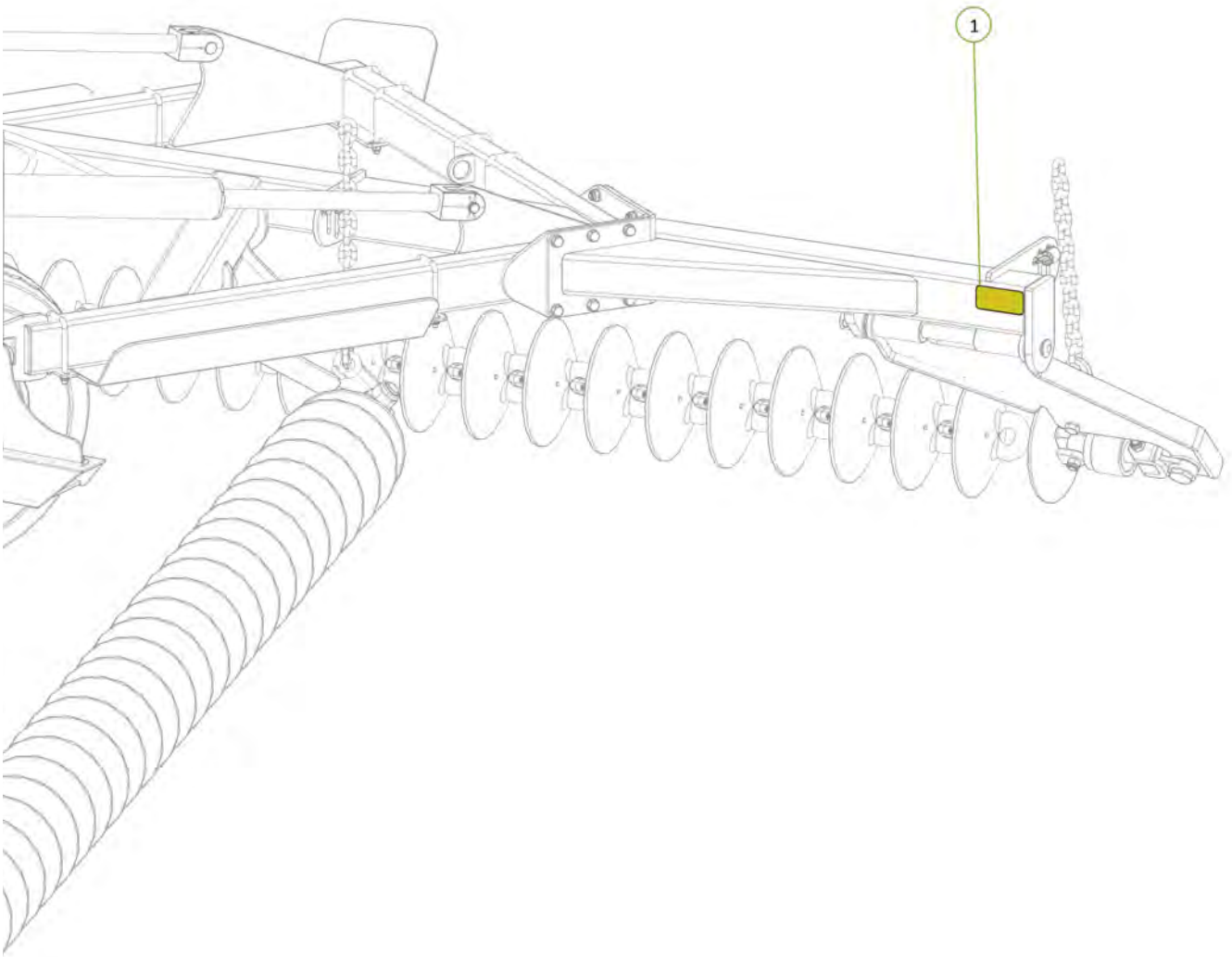




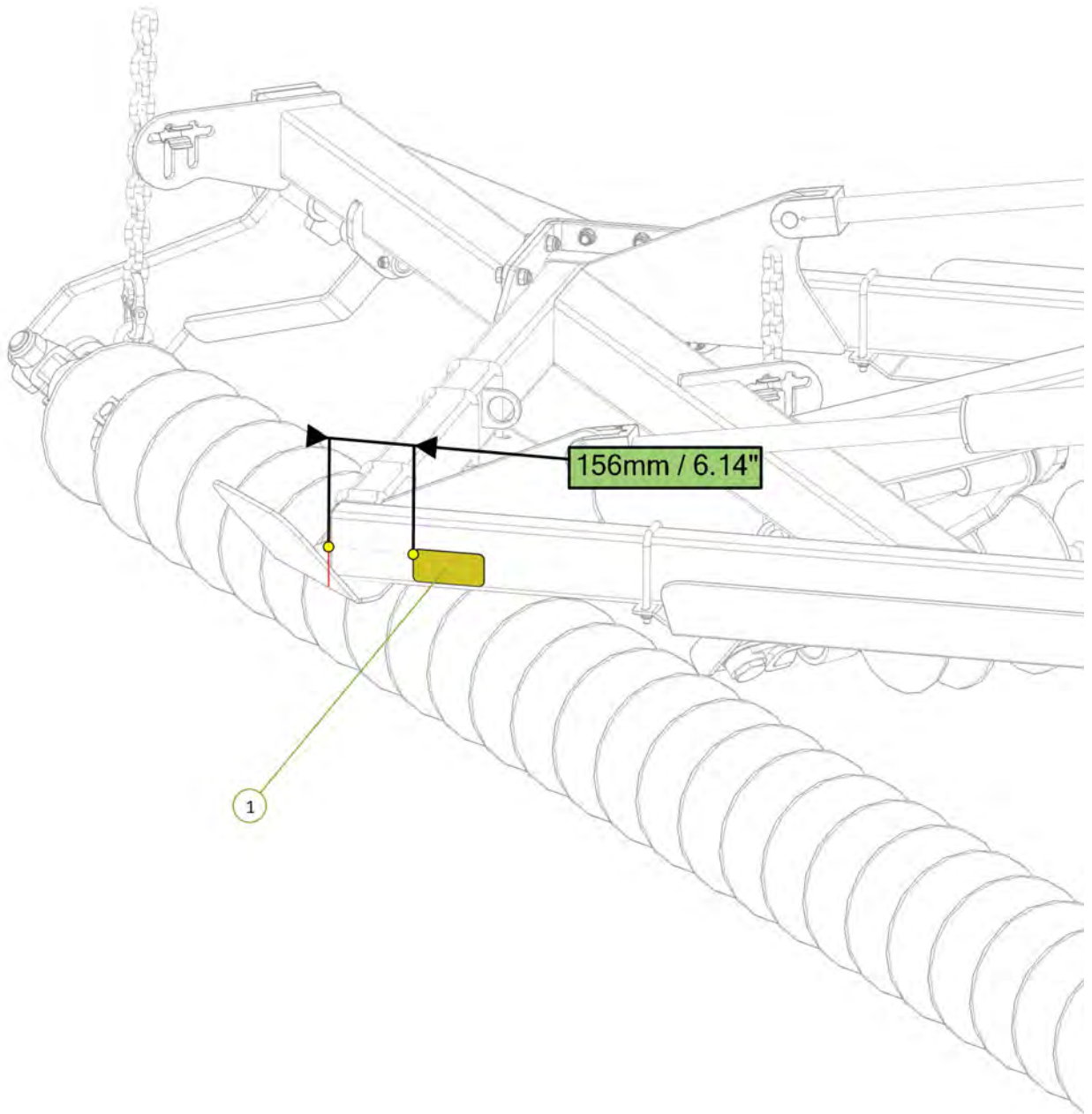
| Item No. | Description | Number | Qty |
|----------|---------------------|----------|-----|
| 1 | Grease Decal | 0801-S10 | 5 |
| 2 | Brake Caliper Decal | 0801-S11 | 1 |

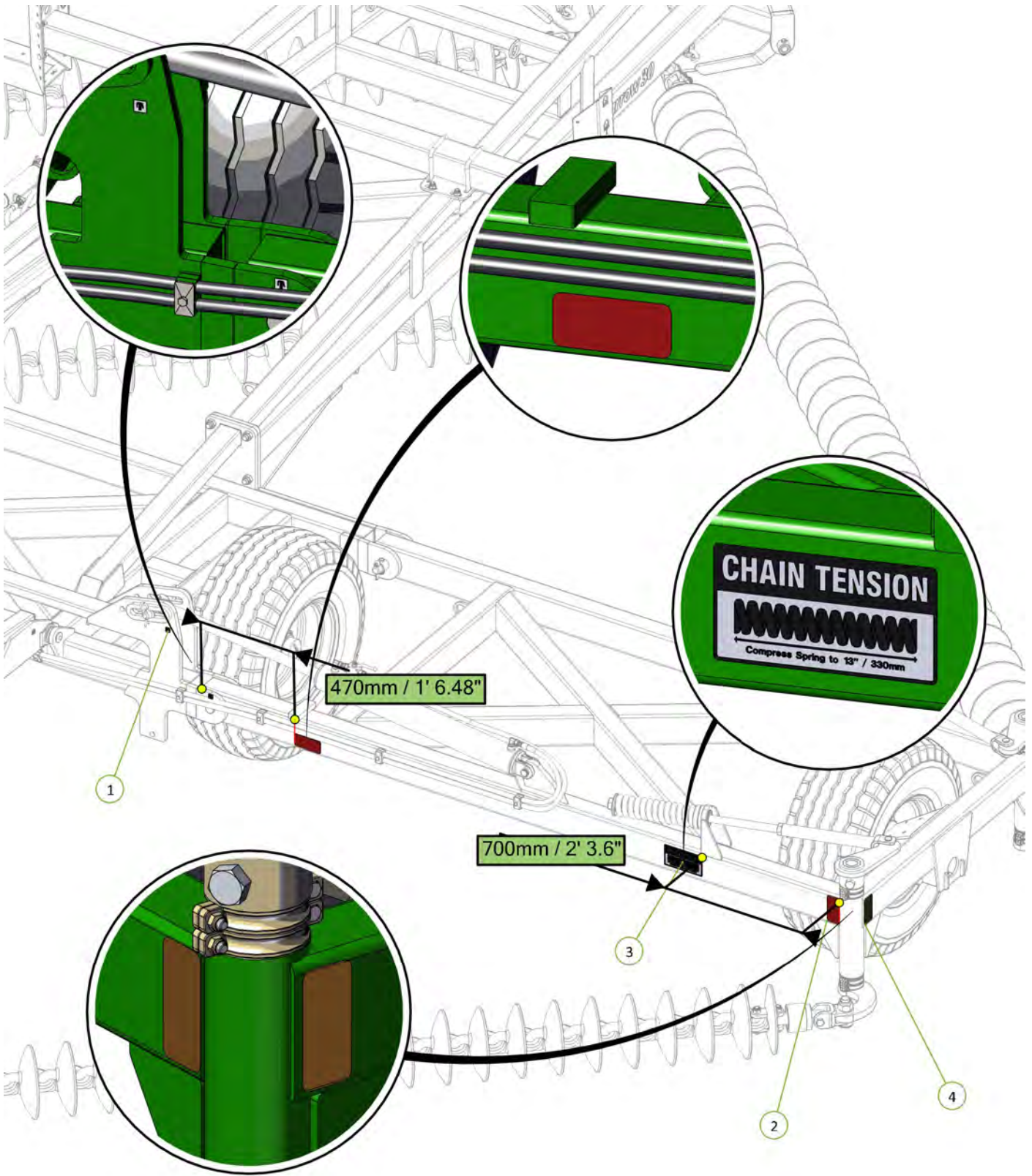


| Item No. | Description | Number | Qty |
|----------|-------------------------|-----------|-----|
| 1 | Yellow Reflective Decal | 0801-SYRF | 1 |



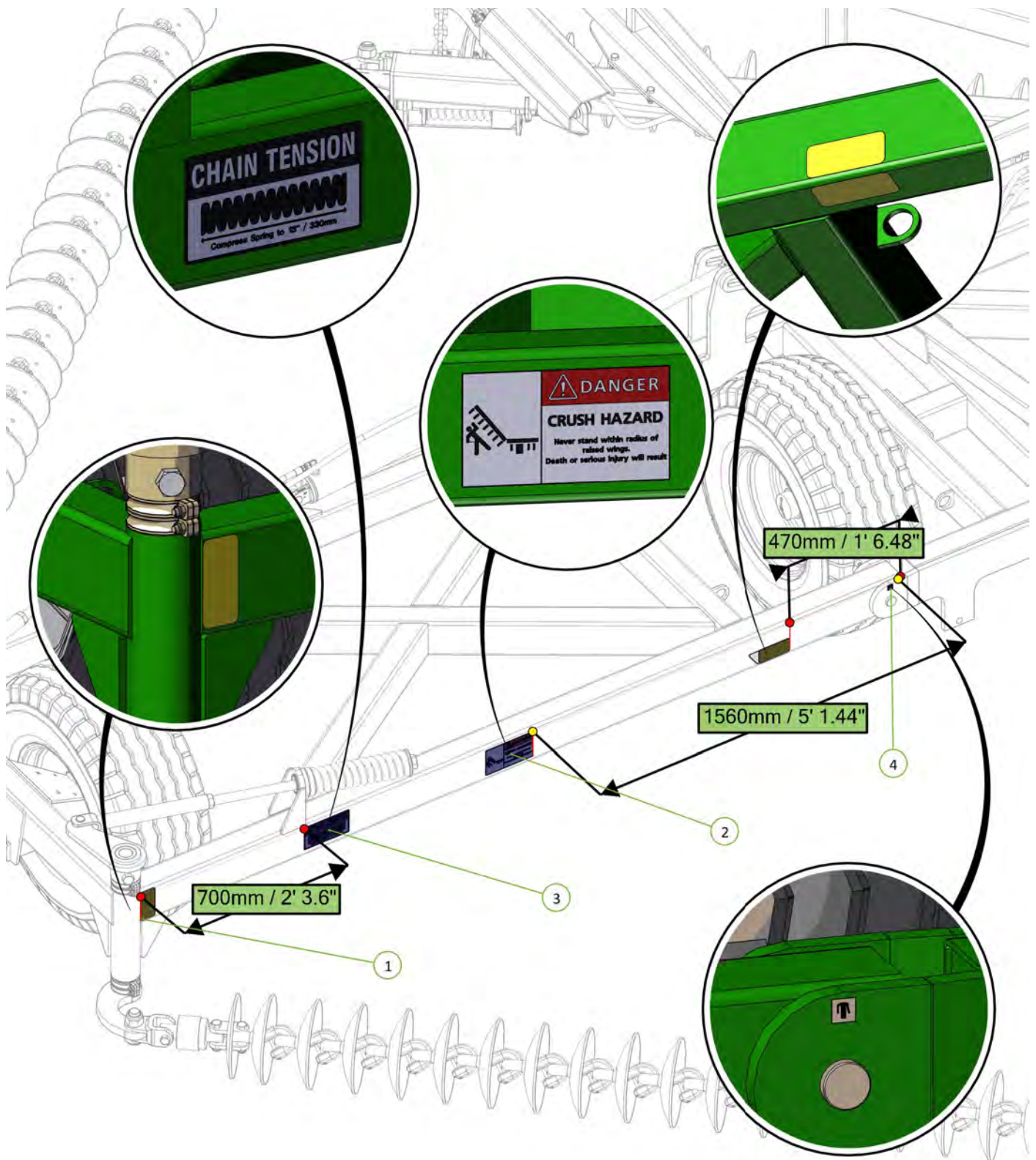
| Item No. | Description | Number | Qty |
|----------|-------------------------|-----------|-----|
| 1 | Yellow Reflective Decal | 0801-SYRF | 1 |





| Item No. | Description | Number | Qty |
|----------|---------------------------|-----------|-----|
| 1 | Grease Decal | 0801-S10 | 2 |
| 2 | Red Reflective Decal | 0801-SRRF | 2 |
| 3 | Chain Tension 330mm Decal | 0801-S15 | 1 |
| 4 | Yellow Reflective Decal | 0801-SYRF | 1 |

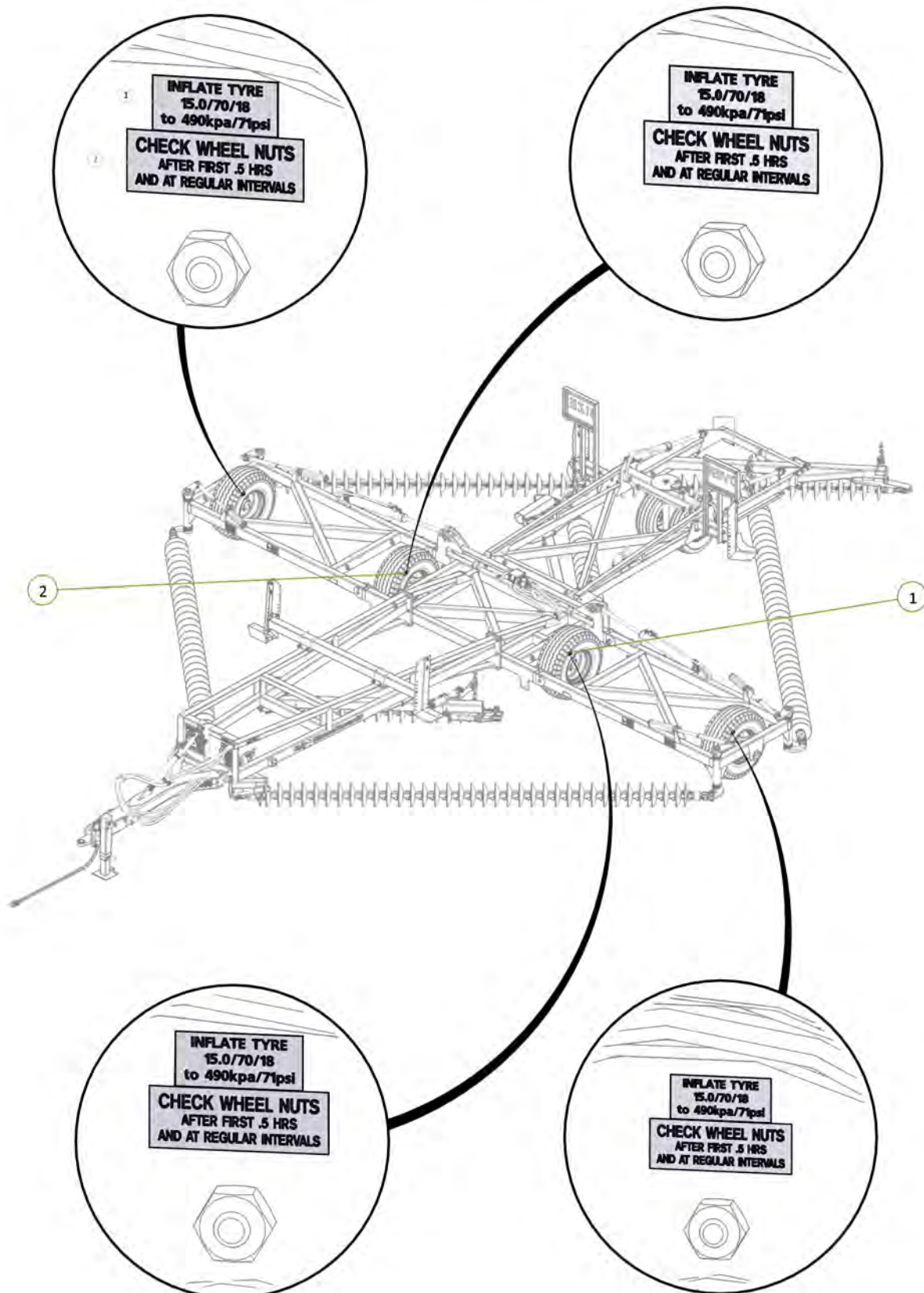




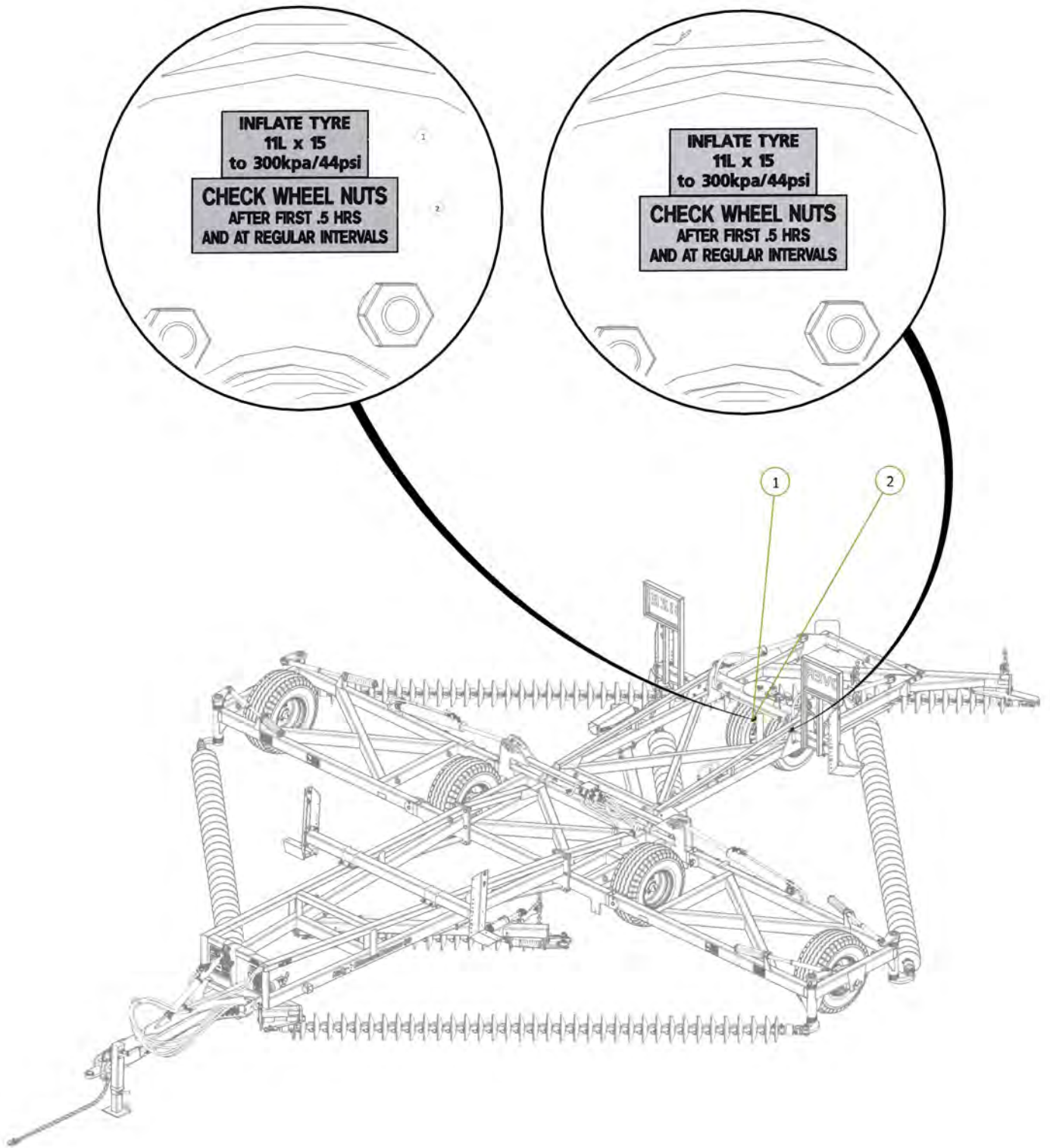
| Item No. | Description | Number | Qty |
|----------|---------------------------|-----------|-----|
| 1 | Yellow Reflective Decal | 0801-SYRF | 3 |
| 2 | Danger Crush Hazard Decal | 0801-S3 | 1 |
| 3 | Chain Tension 330mm Decal | 0801-S15 | 1 |
| 4 | Grease Decal | 0801-S10 | 1 |

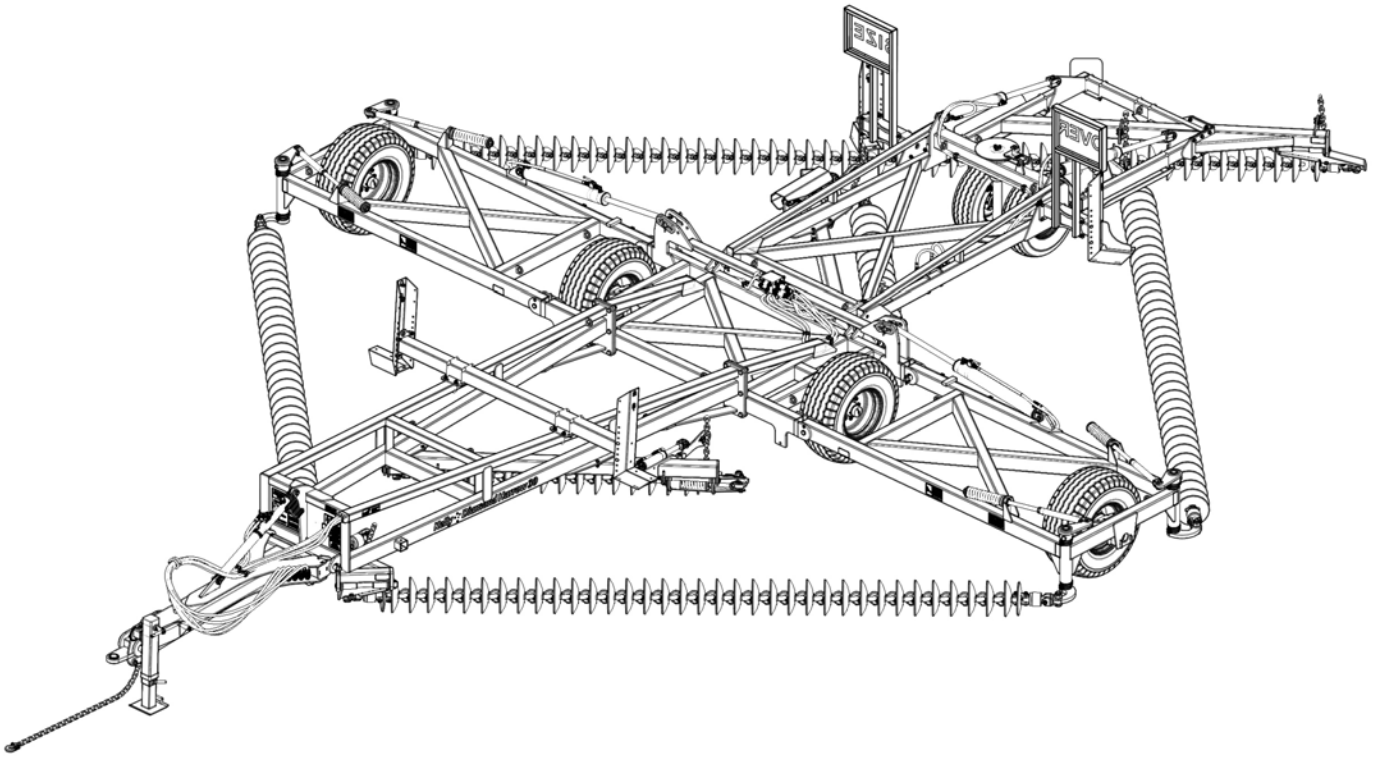


| Item No. | Description | Number | Qty |
|----------|----------------------------------|--------------------|-----|
| 1 | Decal, 15.0/70/18 Tyre Inflation | 0801-S8-15.5-70-18 | 4 |
| 2 | Wheel Nut Decal | 0801-S9 | 4 |



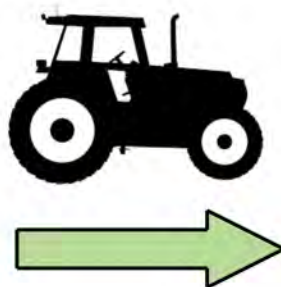
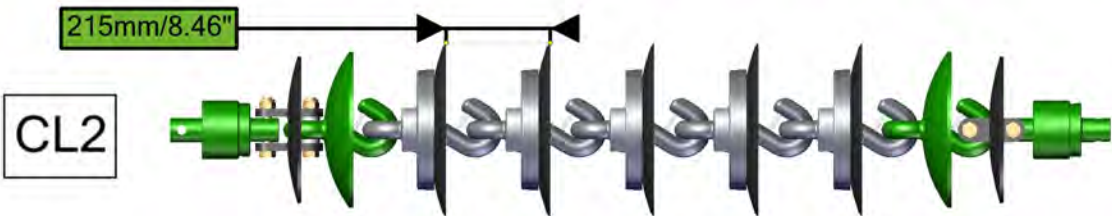
| Item No. | Description | Number | Qty |
|----------|------------------------------|--------------------|-----|
| 1 | Decal, 11L-15 Tyre Inflation | 0801-S8-11L-15.JPG | 2 |
| 2 | Wheel Nut Decal | 0801-S9 | 2 |





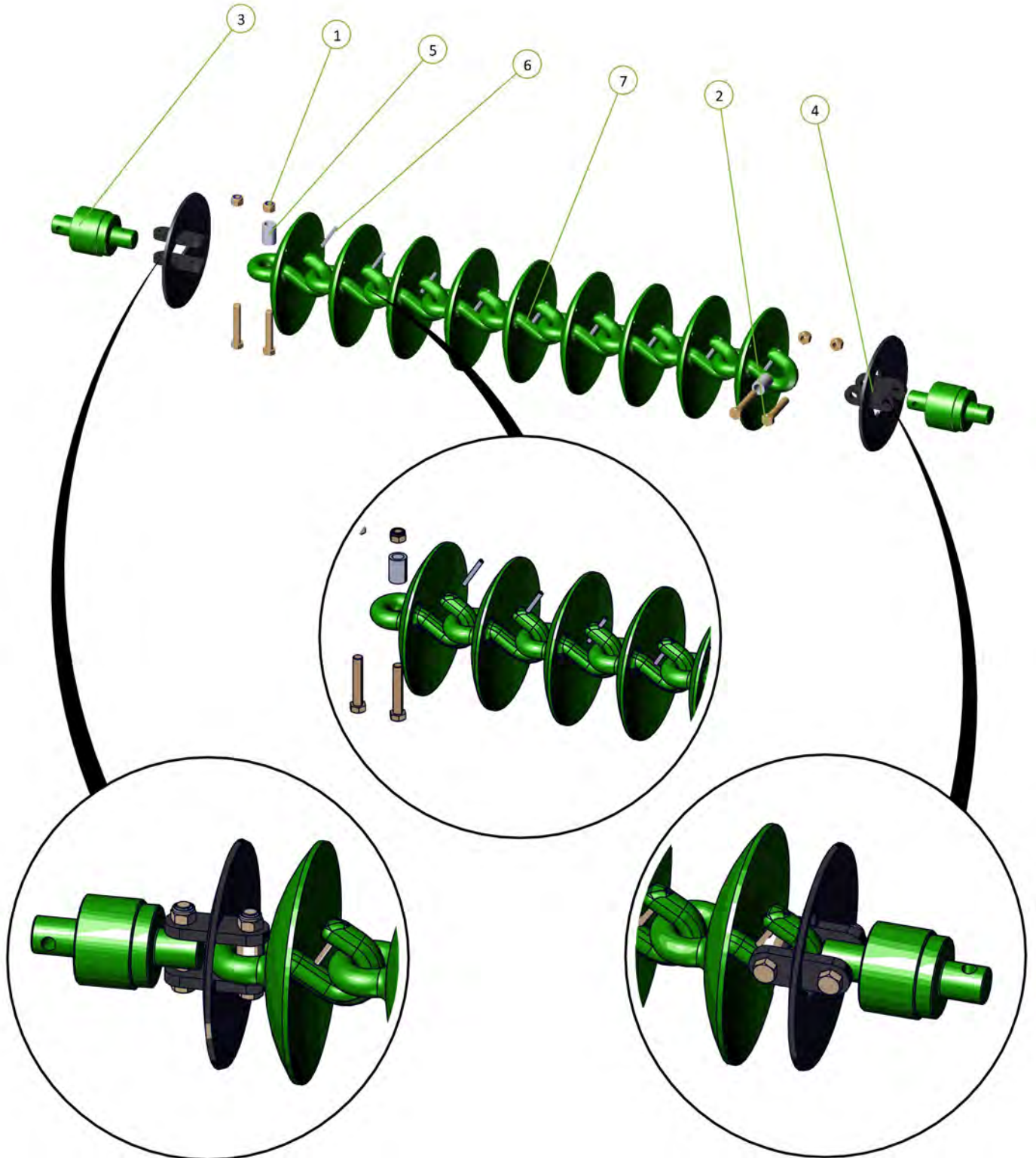
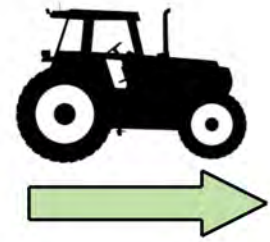
Section 4

Chain Assembly



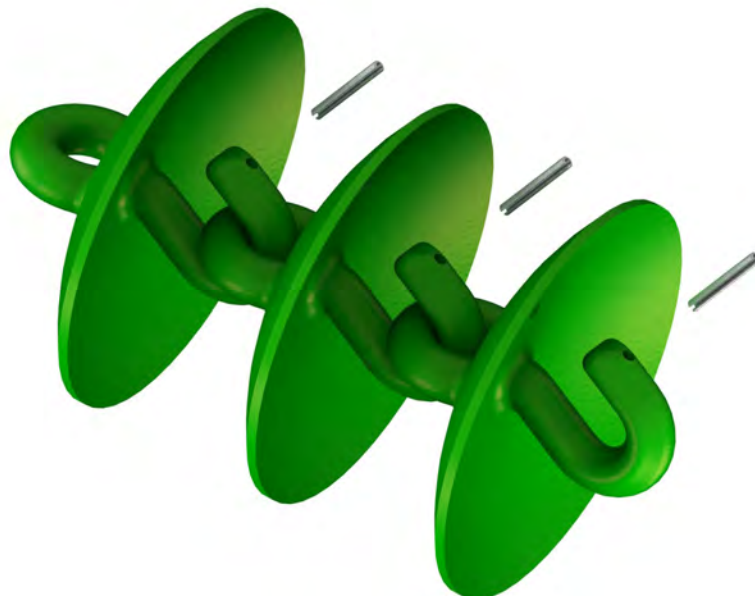
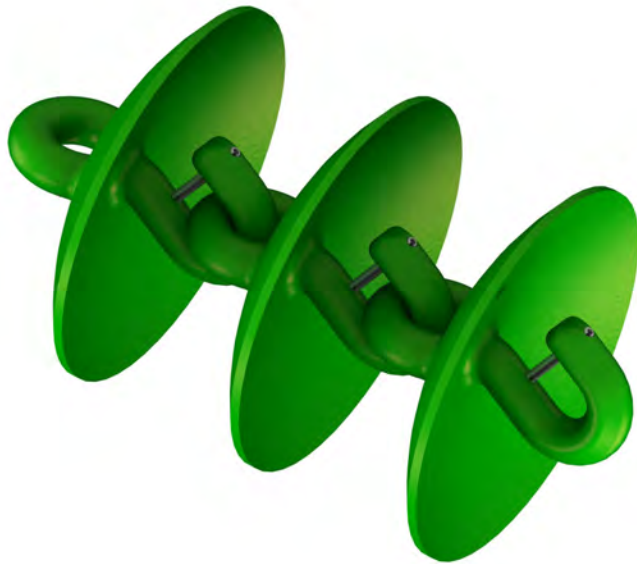
CL1 Disc Chain

| 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 |



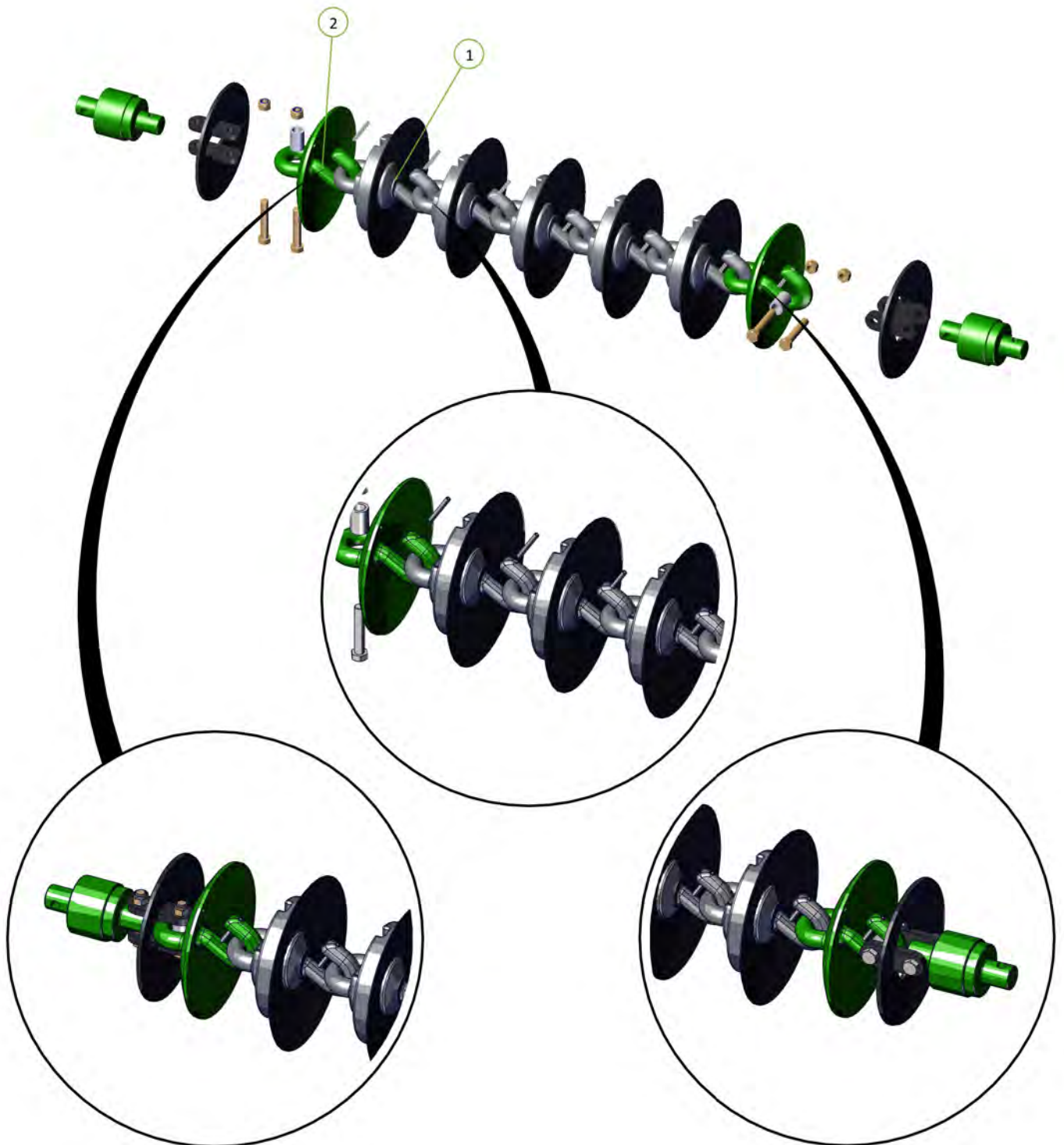
Fitting Cast Link Pins

Please install cast link retaining Pins (3/8" x 3" Roll Pin, part number 0262-3-8X3) on all cast disc links. Failure to do this could lead to the discs becoming dislodged during transport causing severe damage or injury.



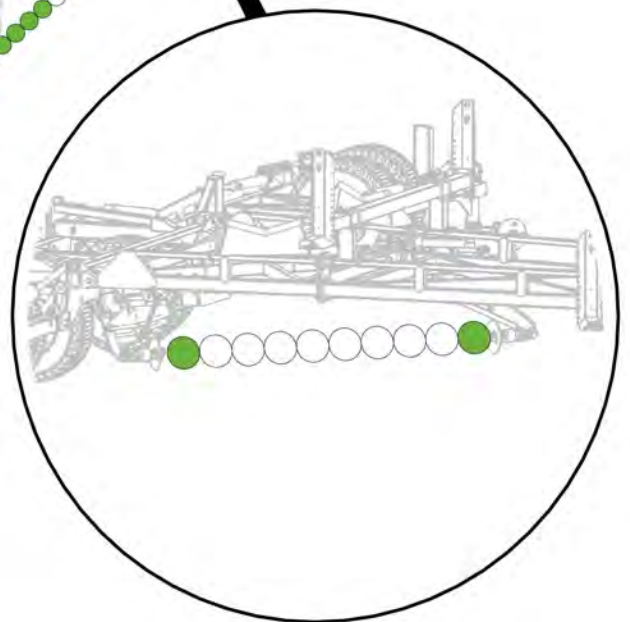
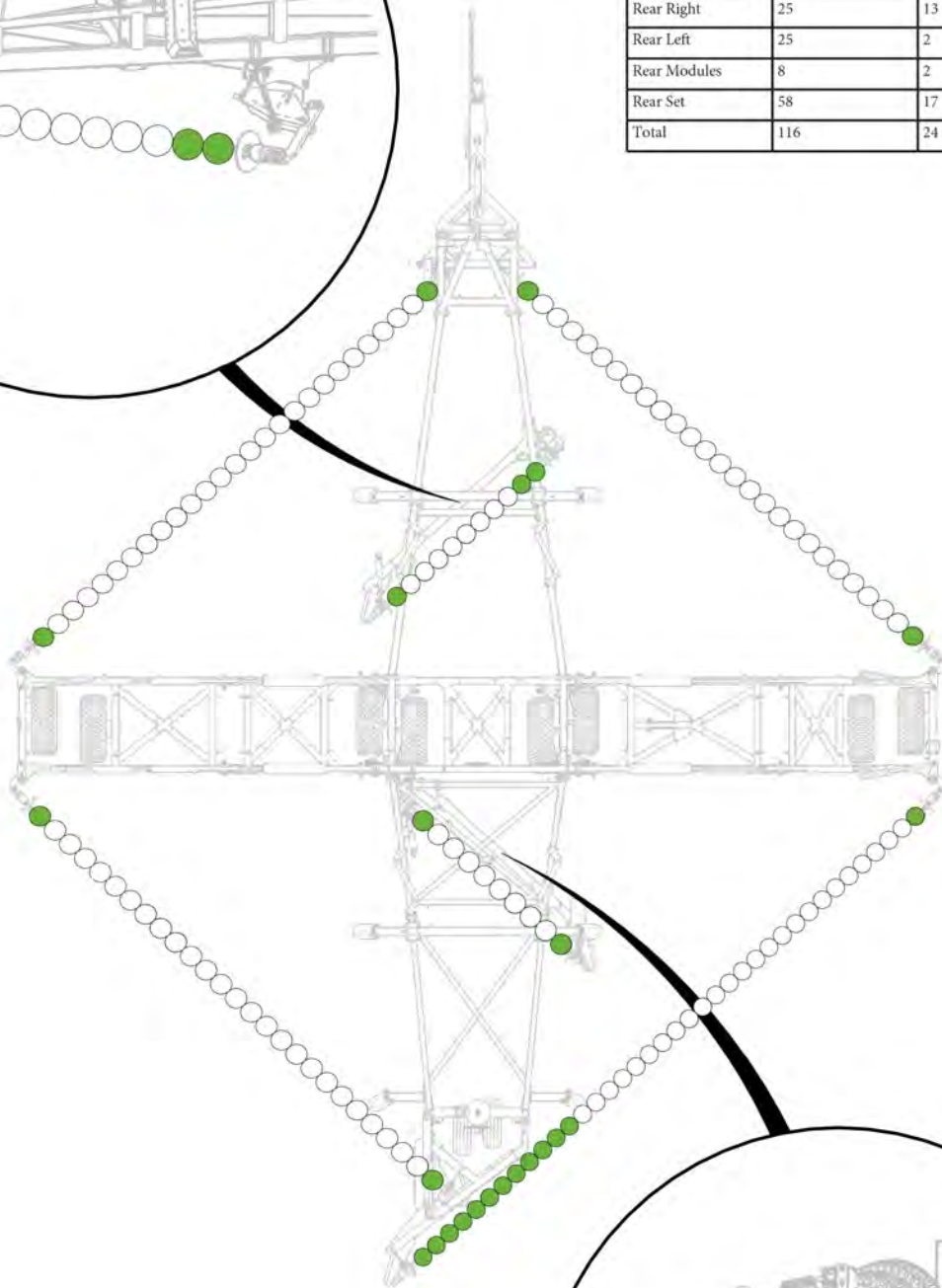
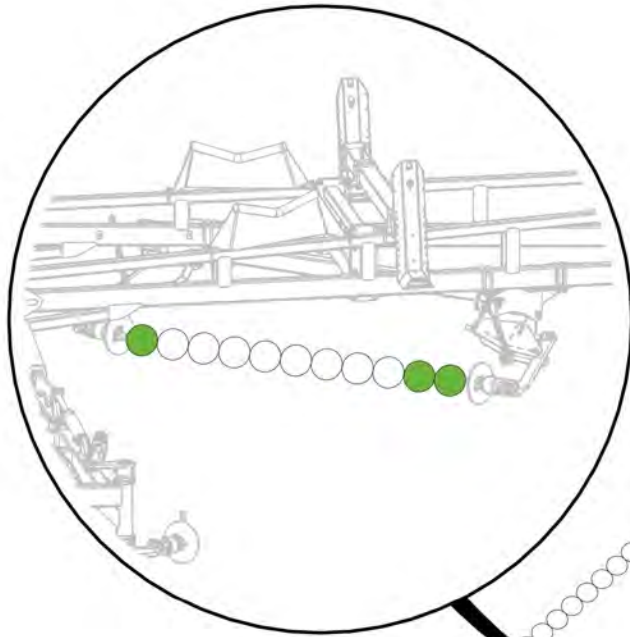
CL2 Disc Chain

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



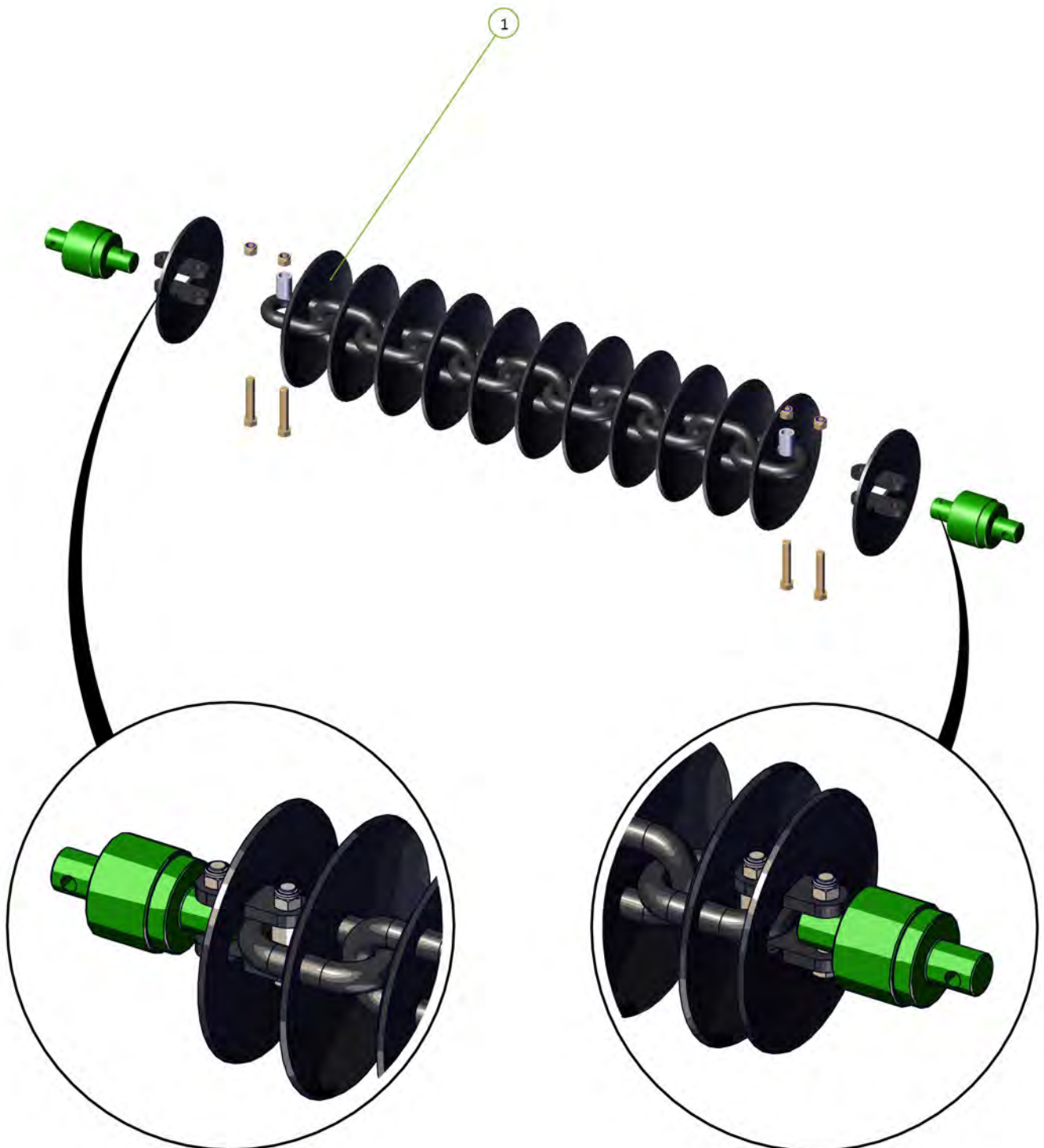
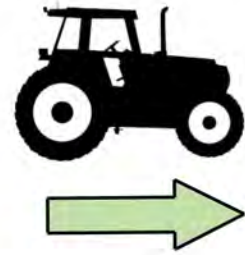
CL2 Chain Layout

| Set | CL2 | CL1 |
|---------------|-----|-----|
| Front Left | 25 | 2 |
| Front Right | 25 | 2 |
| Front Modules | 8 | 3 |
| Front Set | 58 | 7 |
| Rear Right | 25 | 13 |
| Rear Left | 25 | 2 |
| Rear Modules | 8 | 2 |
| Rear Set | 58 | 17 |
| Total | 116 | 24 |



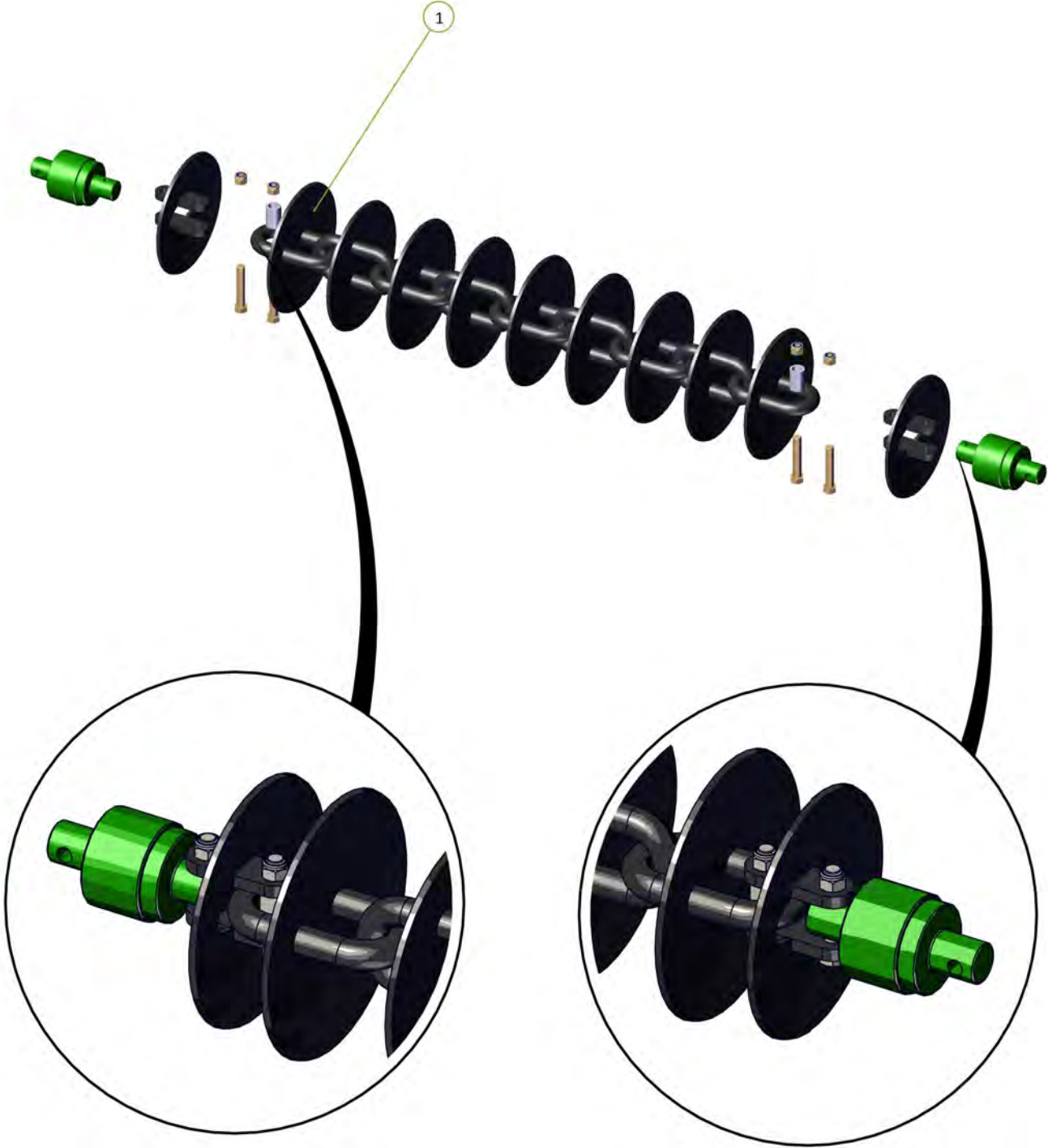
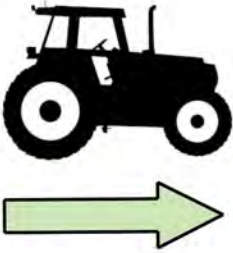
R300 Disc Chain

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



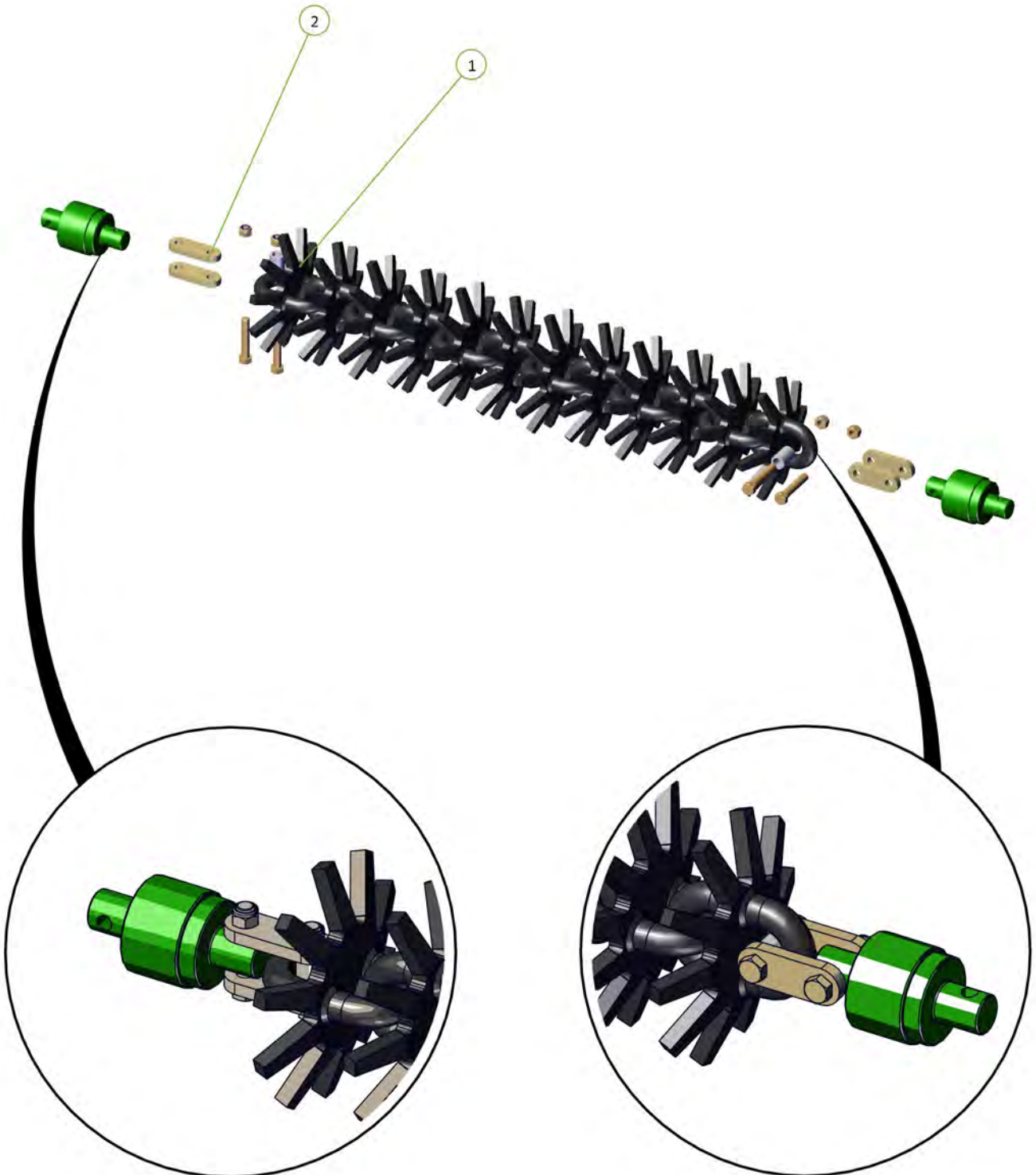
W36 Disc Chain

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



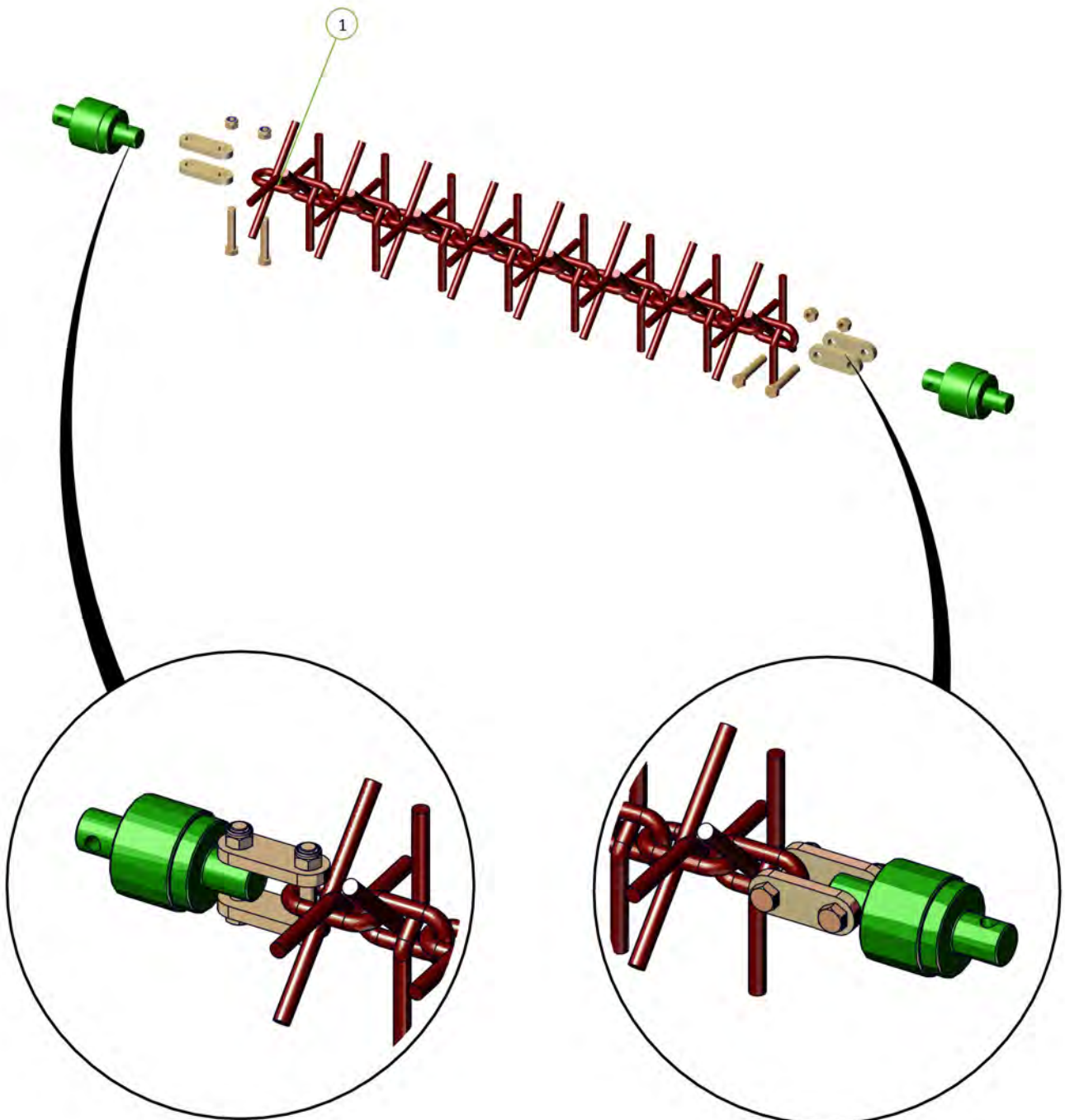
Spike Disc Chain

| 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 |



Prickle Chain

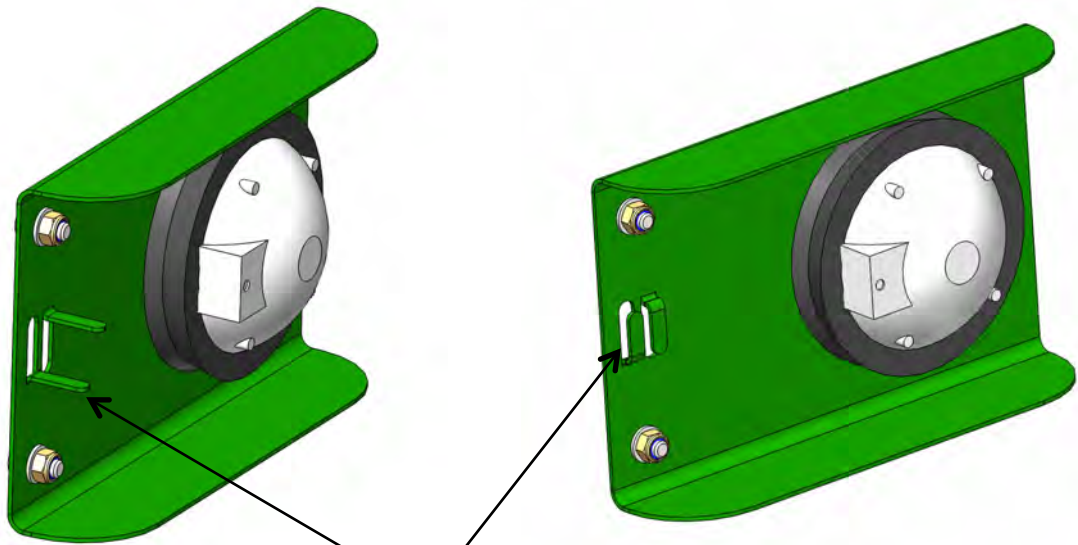
| Item No. | Description | Number | Qty |
|----------|--------------------|----------|-----|
| 1 | Prickle Chain Link | 0803-PCH | 1 |



Section 5

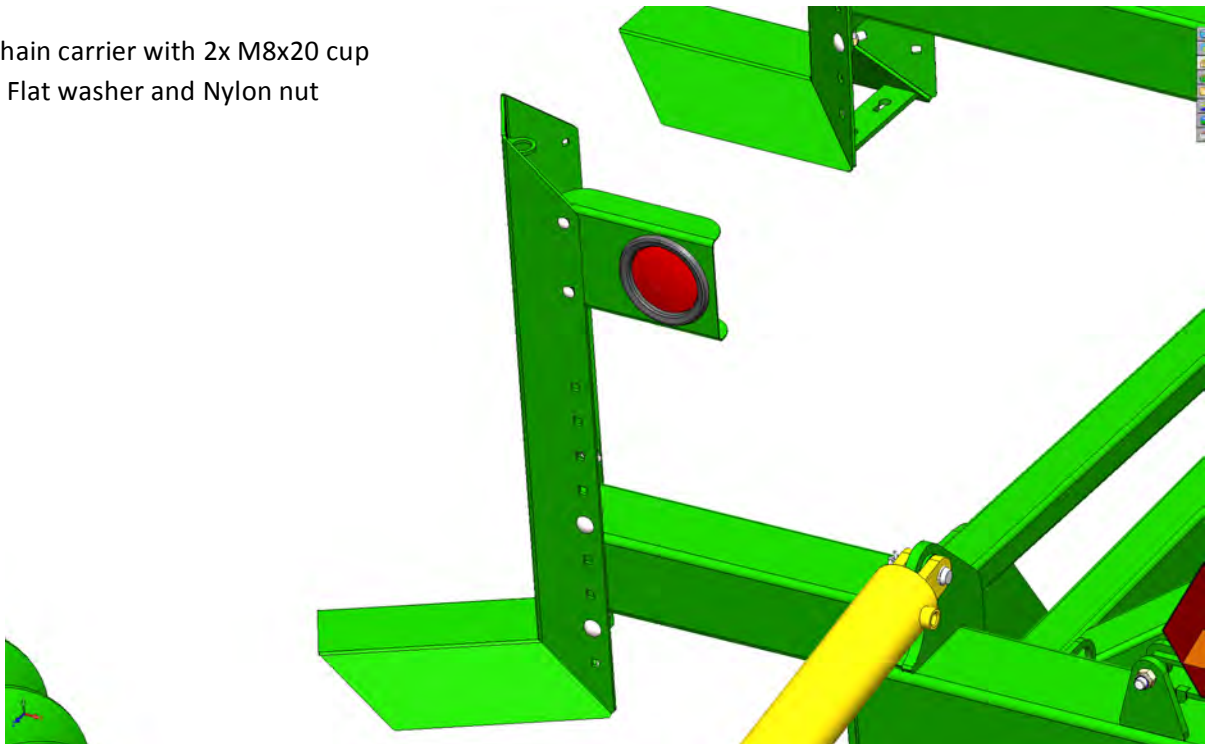
Diagrams and Charts

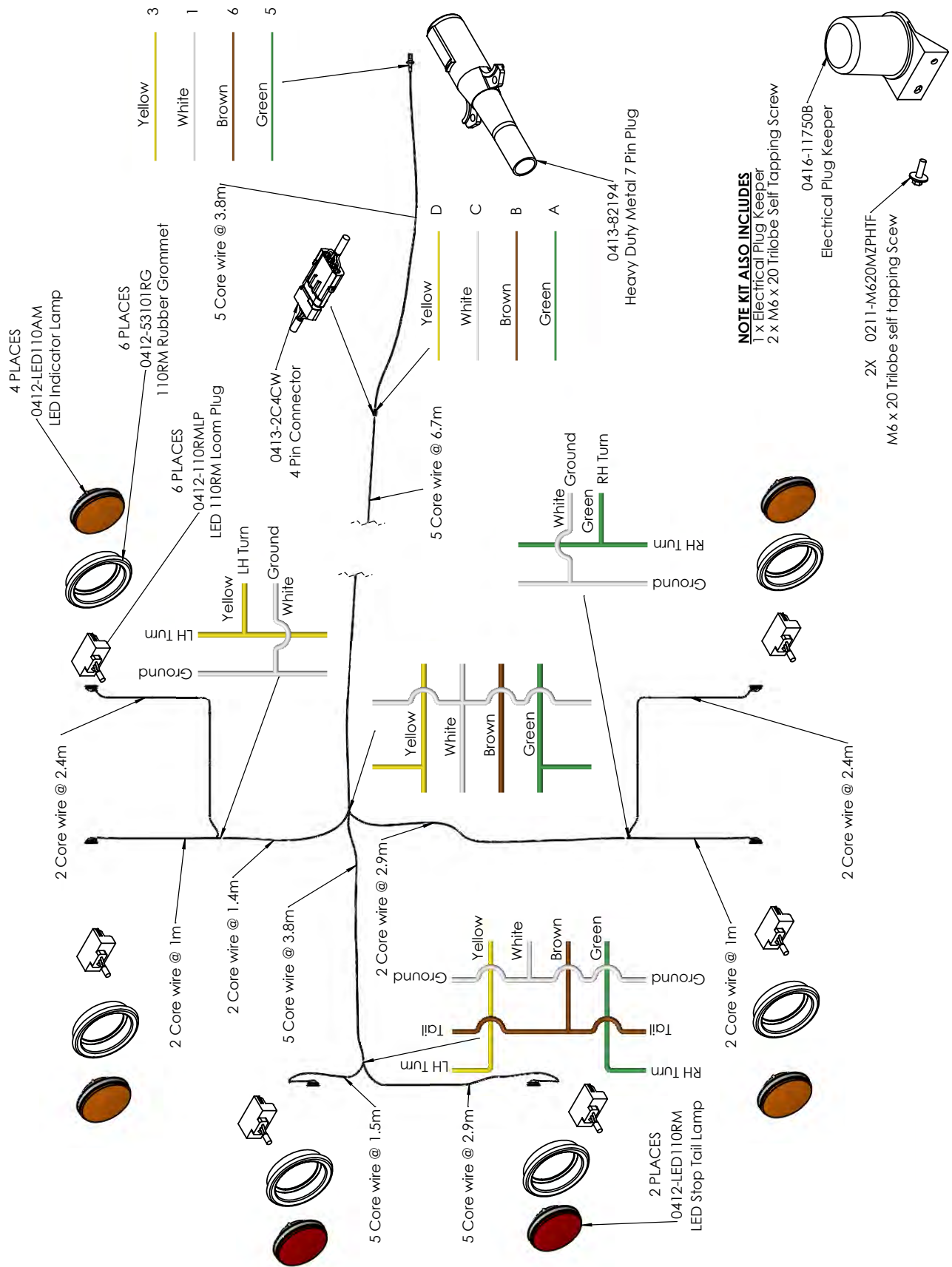
Rear Light Brackets



Please ensure to bend tabs up and feed wire through, so the light cable is secure

Mount to chain carrier with 2x M8x20 cup head bolts, Flat washer and Nylon nut





Operating speeds

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

Tire pressure

| Tire size | Ply | PSI | KPA |
|---------------|-----|-----|-----|
| 16.5L x 16.1 | 14 | 36 | 250 |
| H40 x 14.5-19 | 26 | 60 | 410 |
| 11L - 15 | 10 | 44 | 300 |
| 15.5/80/24 | 16 | 58 | 400 |
| 16.5/85/24 | 16 | 55 | 380 |
| 550/60/22.5 | 16 | 40 | 280 |
| 400/60/22.5 | 16 | 50 | 350 |
| 12.5/80/18 | 14 | 85 | 590 |
| 15.0/70/18 | 14 | 71 | 490 |

Chain Harrow specifications

| Model | 30'/9m |
|------------------|-------------|
| Working width | 29.79'/9.0m |
| Transport width | 11.5'/3.5m |
| Transport height | 13'/4.0m |
| Transport length | 40.7'/12.4m |

Disc Chain lengths

| Model 30 | | Length | CL2 | CL1 | W36 | R300 | SD49 | Prickle chain |
|------------|---------------|------------|---|-----|-----|------|------|---------------|
| | | | CL2 disc chain also requires CL1 disc chain | | | | | |
| 30' | Front right | 19'/5.8m | CL2 - 25 CL1 - 2 | 35 | 35 | 46 | 46 | 64 |
| | Front left | 19'/5.8m | CL2 - 25 CL1 - 2 | 35 | 35 | 46 | 46 | 64 |
| | Rear right | 25.6'/7.8m | CL2 - 25 CL1 - 13 | 48 | 47 | 63 | 63 | 87 |
| | Rear left | 19'/5.8m | CL2 - 25 CL1 - 2 | 36 | 35 | 46 | 46 | 64 |
| | Modules front | 7.5'/2.3m | CL2 - 8 CL1 - 3 | 14 | 14 | 19 | 19 | 26 |
| | Modules rear | 6.6'/2m | CL2 - 8 CL1 - 2 | 12 | 12 | 16 | 16 | 22 |

Section 6

Operation

Basic Operation

Unfolding:

1. Walk around and inspect the machine.
 - a. Check that chains are not hooked on framework
 - b. Check swivel bolts are in place and not broken
 - c. Check th at height adjusting chains have not fallen out of their slotted plates during transport.
 - d. Ensure front lift cylinder depth stops are fully engaged on cylinder shaft.
2. Lower front A frame to working height.
3. Unfold wings holding the hydraulic lever until both the main center cylinder pins have centered in their slots. (If chain pulls tight during unfold, stop and inspect if chain is hooked)
4. Lower rear tail by holding hydraulic lever until tail and modules are completely lowered to working position.
5. Walk around and check that all chain links are straight and that working height of all swivels is correct for field conditions. Adjust if necessary.
6. Move off with all chains in working position. If necessary it is acceptable to raise front A pull to transport height. This will lift the front chains off the ground and reduce the load on the tractor. Lower the front A pull once moving satisfactorily.

Folding:

1. Lower the front A frame to working height. (This is important to ensure that all chains locate correctly in their transport rests).
2. Raise the Rear Tail and modules by holding the hydraulic lever until they come to a complete stop.
3. Fold the wings. They should move as follows; main center cylinders will retract, one or both, until the wings stand vertically. The left outer wing then the right outer wing will fold down.
4. Raise front A frame to transport height.
5. Walk around and check that chains have located correctly in transport rests.
(30' only, close wing transport lock valves).

Setting for correct chain tension

Wings

Use the spanner supplied. Loosen the lock nut adjacent to the tensioner assembly body. Turn the tension bolt clockwise to compress the coil spring. Correct tension is achieved when spring retains its set length when operator rolls the chain fore and aft on the ground. Retighten the lock nut.

See table below

Spring Compression Length

| Model | inches | mm |
|-------|--------|-----|
| 30 | 12.9 | 330 |

When less than 4" (100mm) of thread remains visible on the adjustor bolt then a link must be removed from the chain



Modules

Loosen the lock nut on the draw bolt.

Tighten the adjusting nut clockwise until the outer face of the spring retaining washer is flush with the body of the module tensioning unit.

Retighten the lock nut.

If more than 8" (200mm) of thread is exposed then a link should be removed to maintain correct adjustment.



Importance of chain tension

Operational

It is imperative that the correct adjustment be maintained. Only through correct adjustment can a smooth and level finish be achieved in field working.

Loose chains lead to :

- Uneven performance across the width of the machine
- Uneven weed control
- Unsatisfactory incorporation
- Ineffective levelling
- Accelerated or premature chain wear
- Chains failing to engage with transport locators when folded
- Machine damage when folding or unfolding
- Uneven field surface with ridges and furrows being created. The leading 1/3rd of a loose chain is much more aggressive than the trailing 1/3rd and the center. This will mean that middle of the machine's front pair of chains will aggressively move soil outwards. The machine's rear pair of chains, if loose, have their aggressive 1/3rd near the wing extremity. It follows then that as the front discs push soil outwards, the least aggressive portion of the rear chain follows them and does not balance the soil movement. This is exacerbated at the wings, effectively creating a broad ridge about halfway out each wing. It won't be evident in one pass, but is possible if care is not taken over time.

A correctly adjusted machine will not cause this phenomenon.

Settings for correct working height

To adjust the swivel height at the wings, relocate one of the polyurethane spacers either above or below the fixed mounting tube.

Adjustment

| | |
|---|---|
| 1 | Loosen chain tension completely |
| 2 | Undo 2 x M10 bolts from corresponding spacer set and take the two halves off of the drop leg tube |
| 3 | Replace it in the selected position after raising or lowering the drop leg |
| 4 | Reinstall the M10 bolts and re-tension the chain |

It is possible to install all spacers either above or below the mounting tube giving a maximum of 4" (100mm) of adjustment.

