

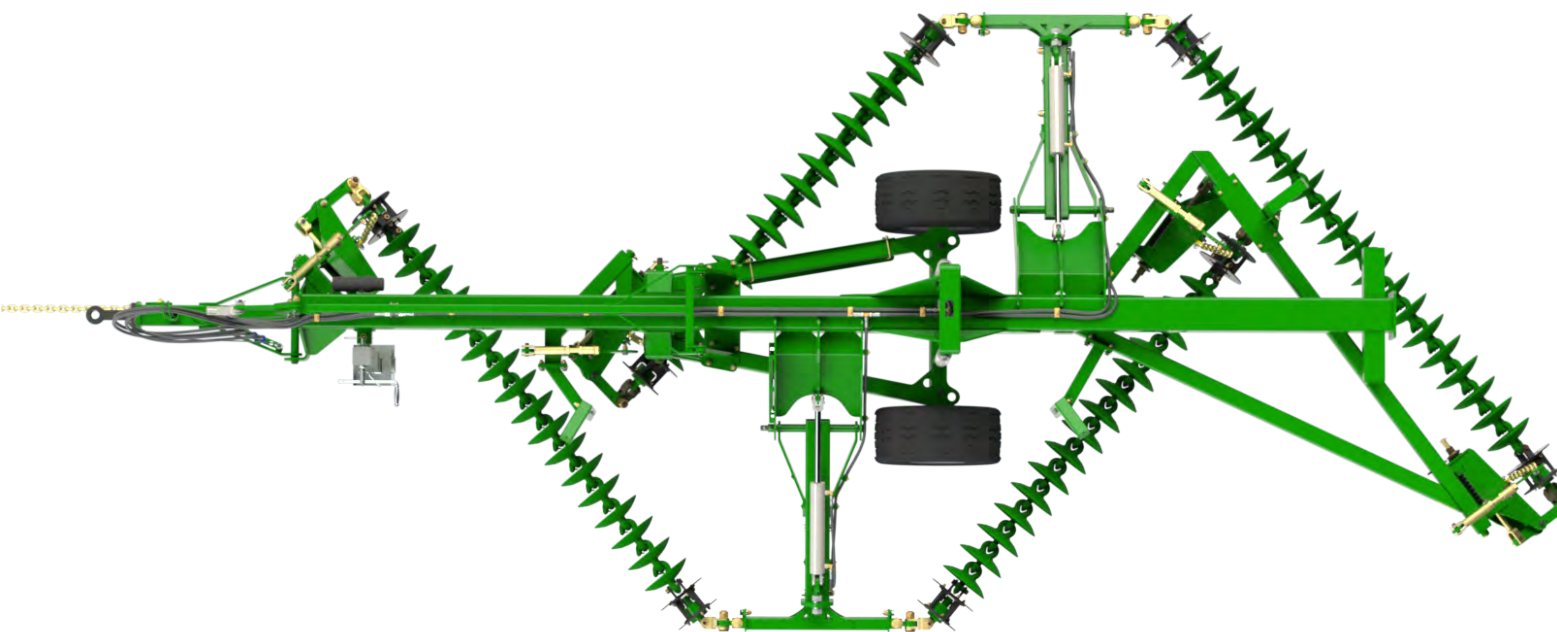


Better Tillage. Better Tomorrow.

# Assembly Manual

## KELLY TILLAGE SYSTEM 1204

KTAM-B-01012025



SERIAL NUMBER:



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Booleroo (Head Office)  
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# Thank you for choosing a KELLY 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 directly.

The KELLY team values your 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.

## Contact Us

### Australia

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#### Eastern Canada

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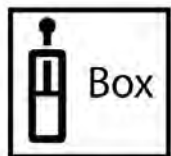
## Legend



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.

## Bolt torque settings

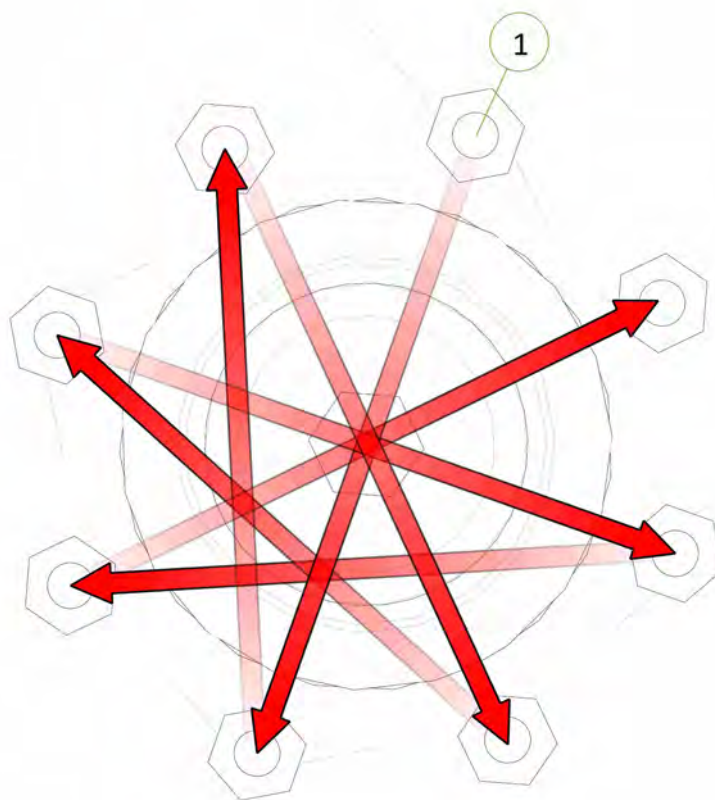
| Bolt Type | Wheel nut |     |      |       | U Bolt |     |     | Class 8.8 Bolt |     |     |     |     | Class 10.9 Bolt |     | Grade 8 Bolt |
|-----------|-----------|-----|------|-------|--------|-----|-----|----------------|-----|-----|-----|-----|-----------------|-----|--------------|
| Bolt 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 and tyre 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 and tighten and 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.

Verification and recording of the prescribed torque settings in the table above is the responsibility of the assembler and it shall be documented in accordance with their approved Quality Assurance system

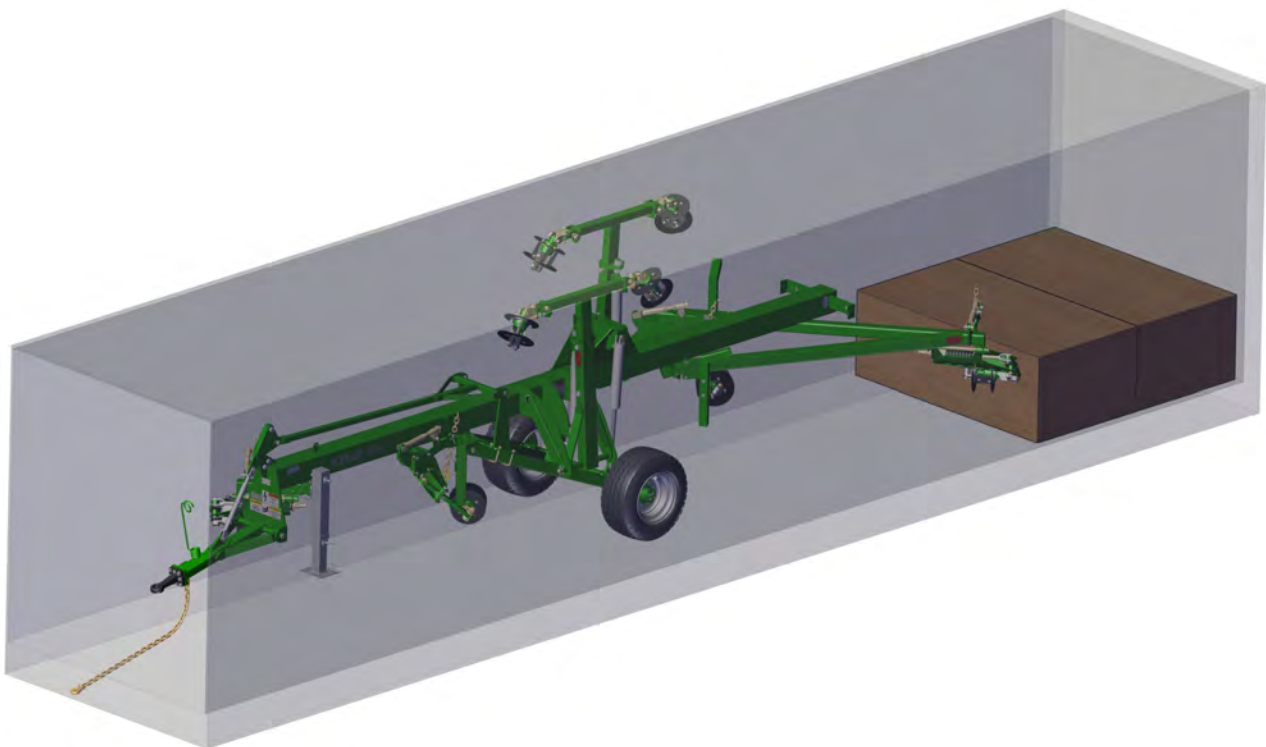




# Section 1 - Unpacking

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

This machine is sent partly assembled in a 40ft container as below





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



### CAUTION

Use personal protective protection (PPE) when releasing ratchet tie downs as may cause injury.

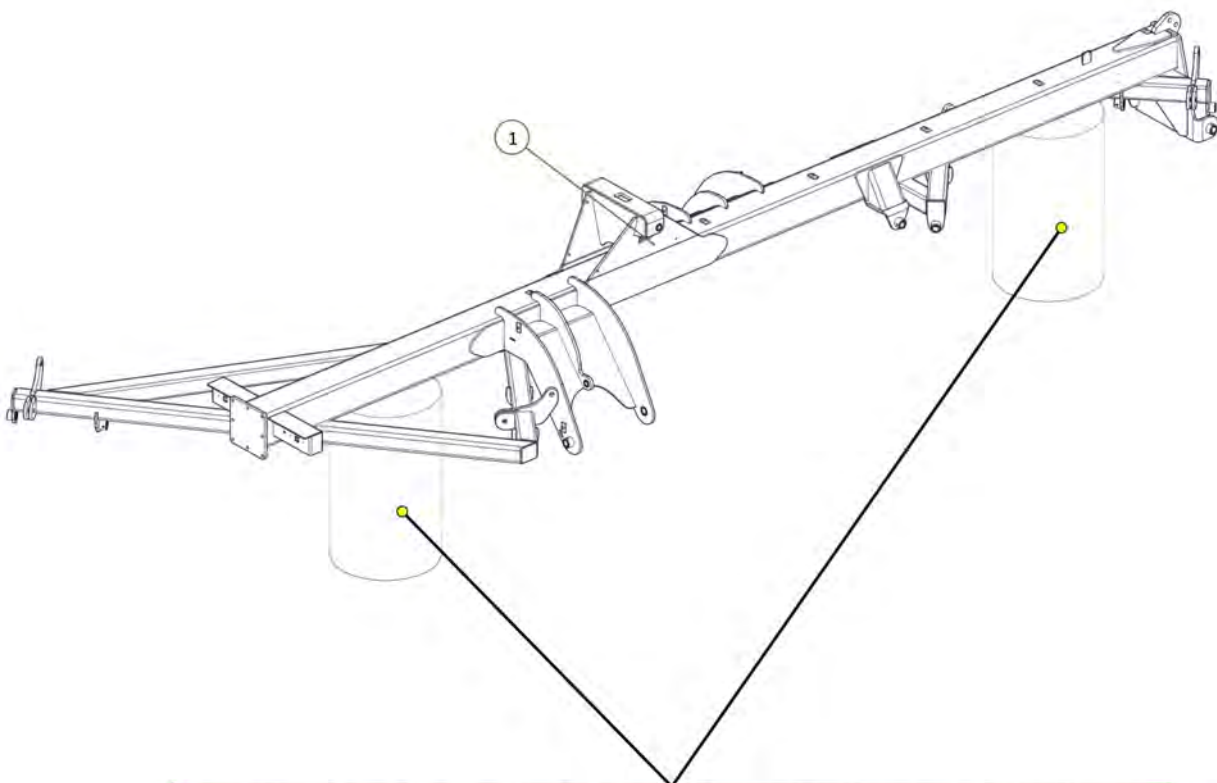


### CAUTION

- Release ratchet tie downs holding the machine and place it in assembly area
- Remove boxes from rear of container one at a time using a forklift truck. Each box weighs approximately 5512 lbs (2500 kg)
- Once all parts have been identified, the chain set 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.

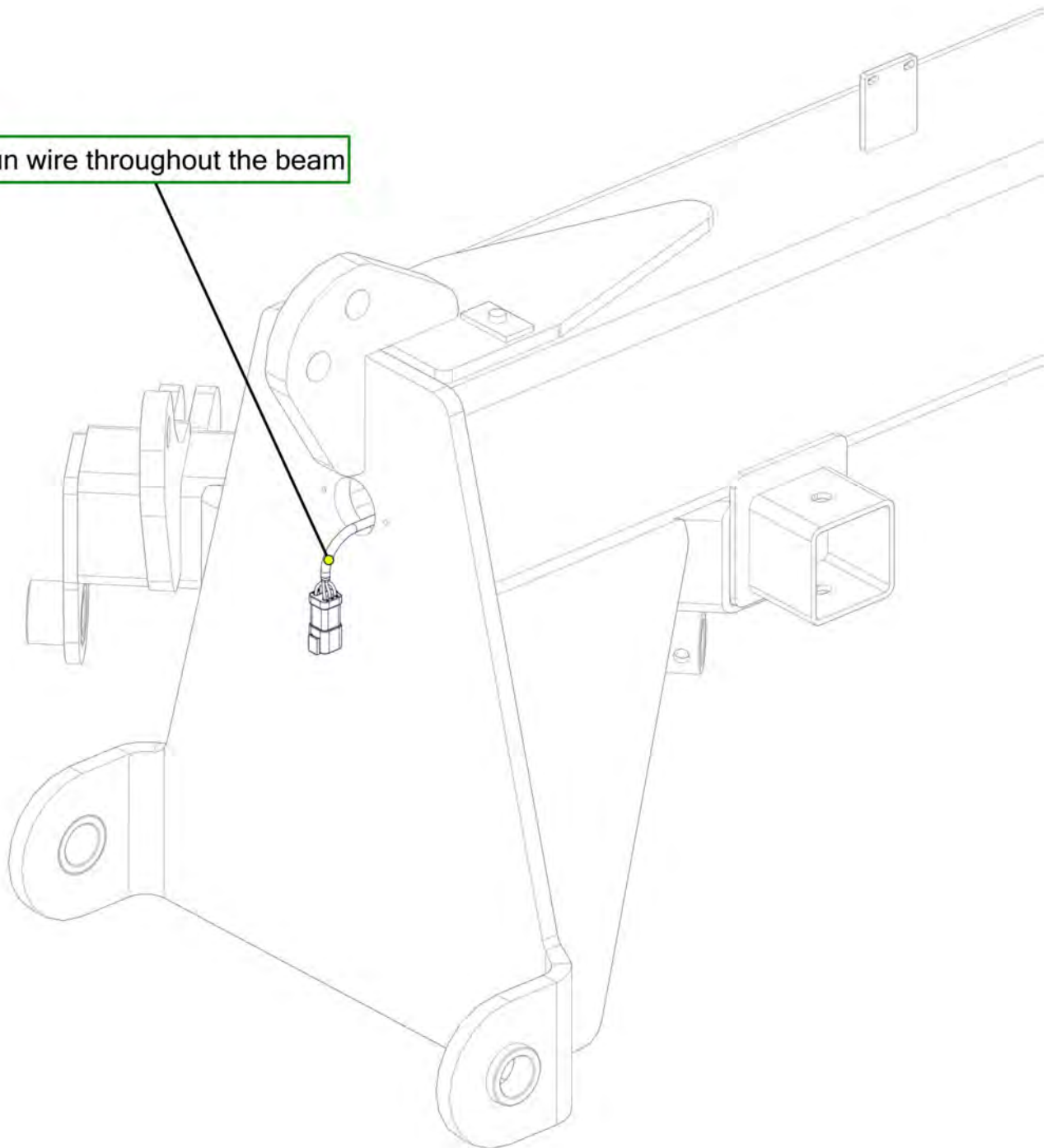
## Section 2 - Light Kit

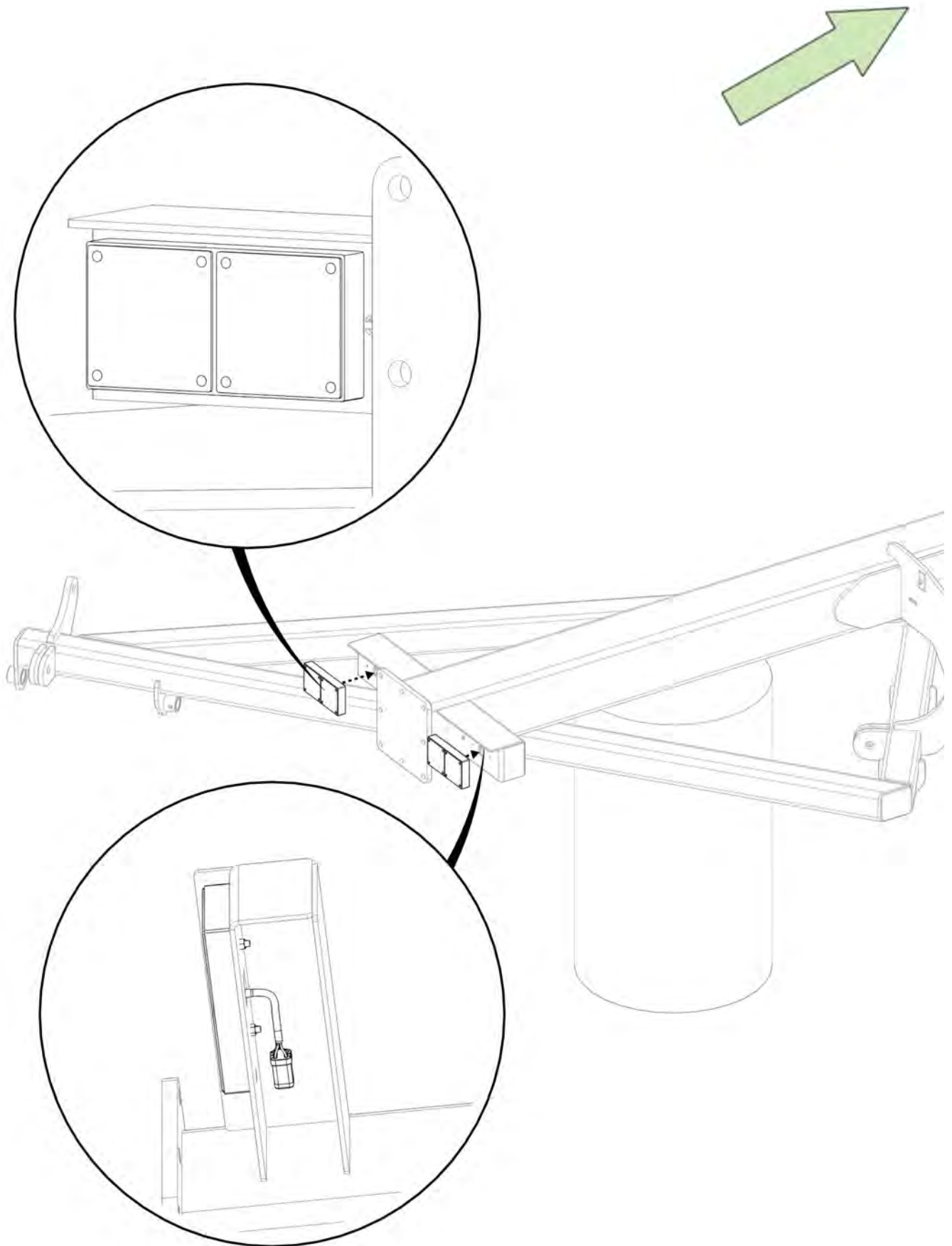
| Item No. | Description               | Number  | Qty |
|----------|---------------------------|---------|-----|
| 1        | 3.5-4.5m KDH Centre Frame | 1512-01 | 1   |

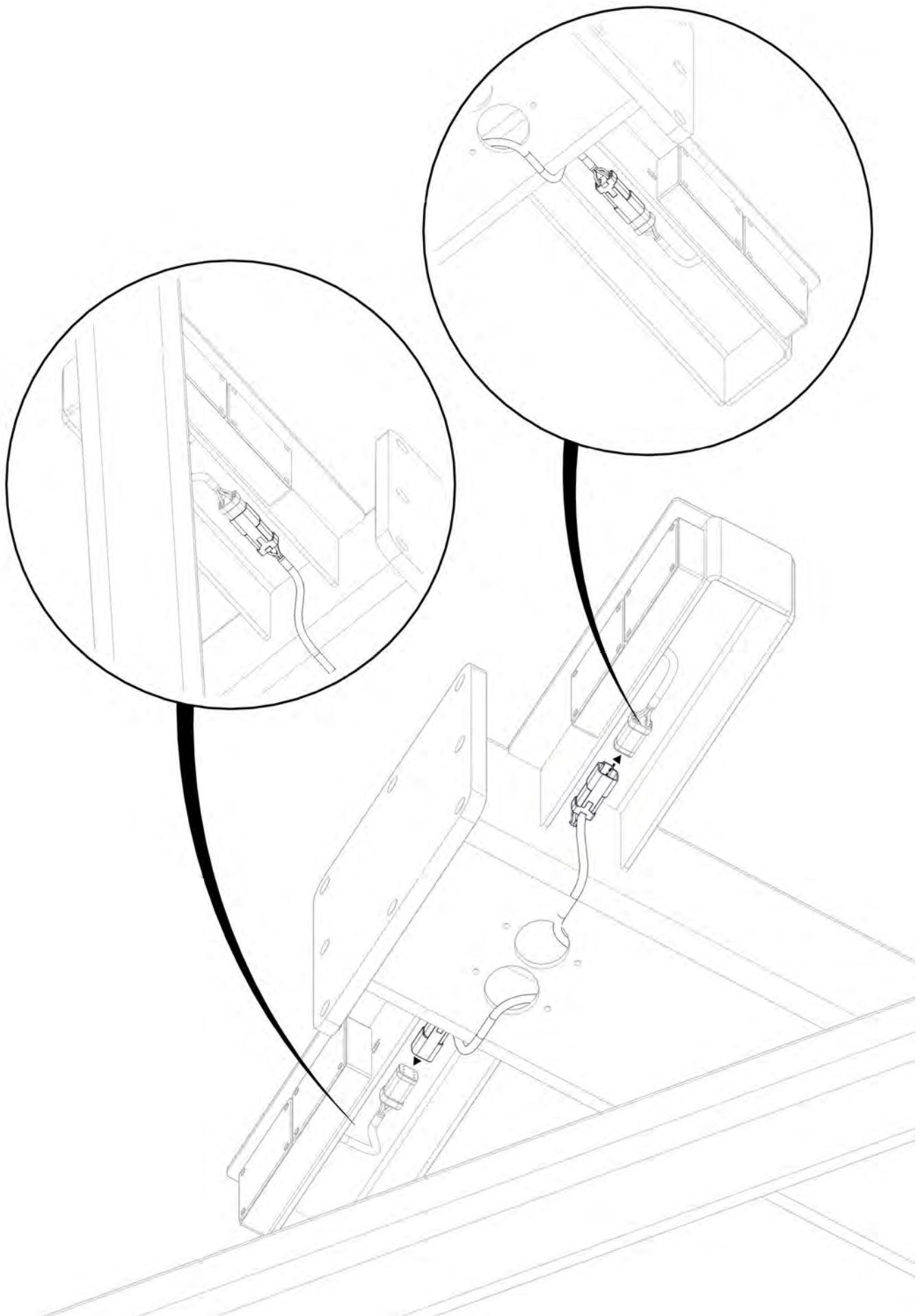


Support frame with blocks or stands during initial assembly. Approximately 1m clearance.

Run wire throughout the beam



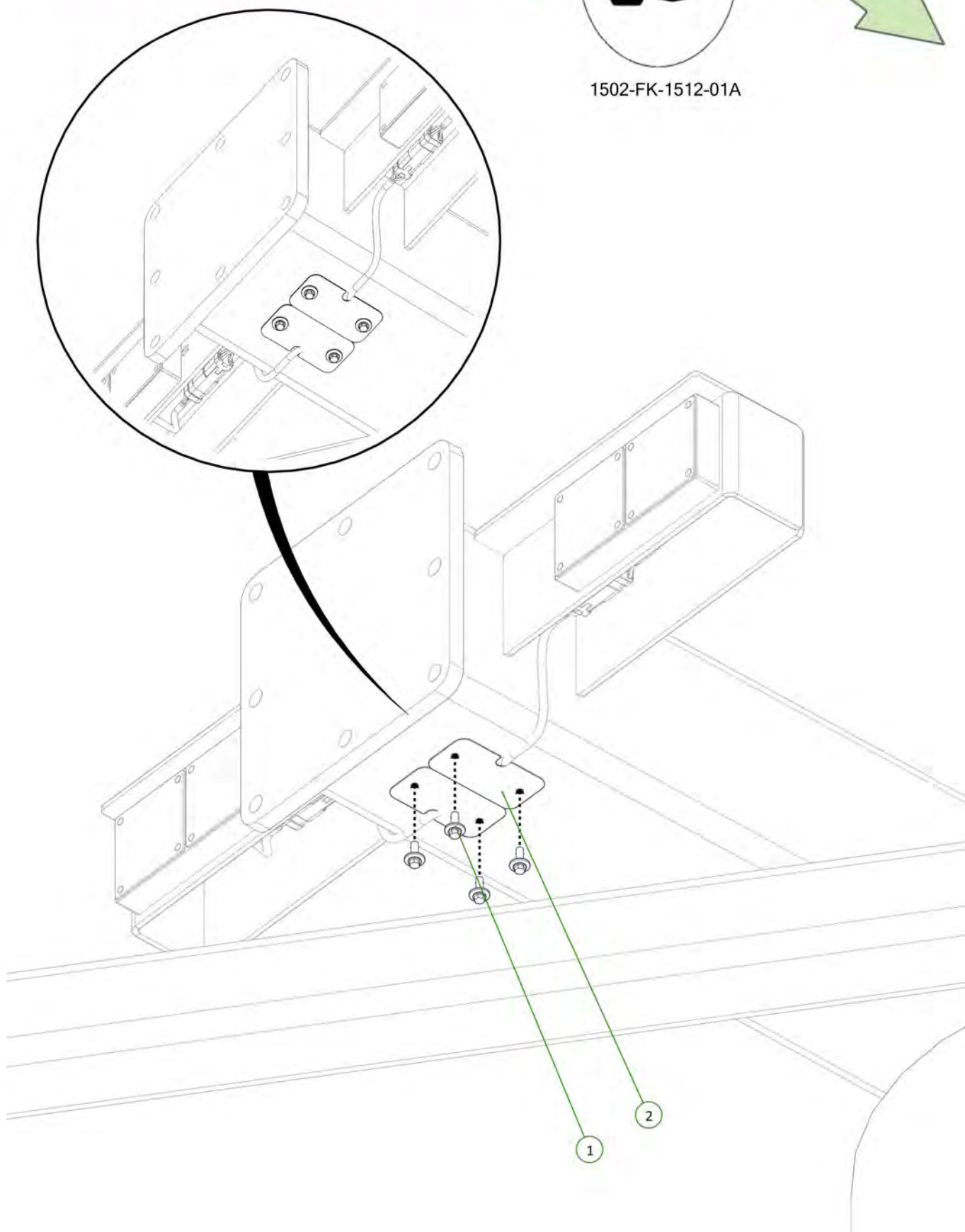




| Item No. | Description             | Number          | Qty |
|----------|-------------------------|-----------------|-----|
| 1        | M6 x 20mm Trilobe Screw | 0211-M620MZPHTF | 4   |
| 2        | Wiring capping plate    | 1500-122        | 2   |



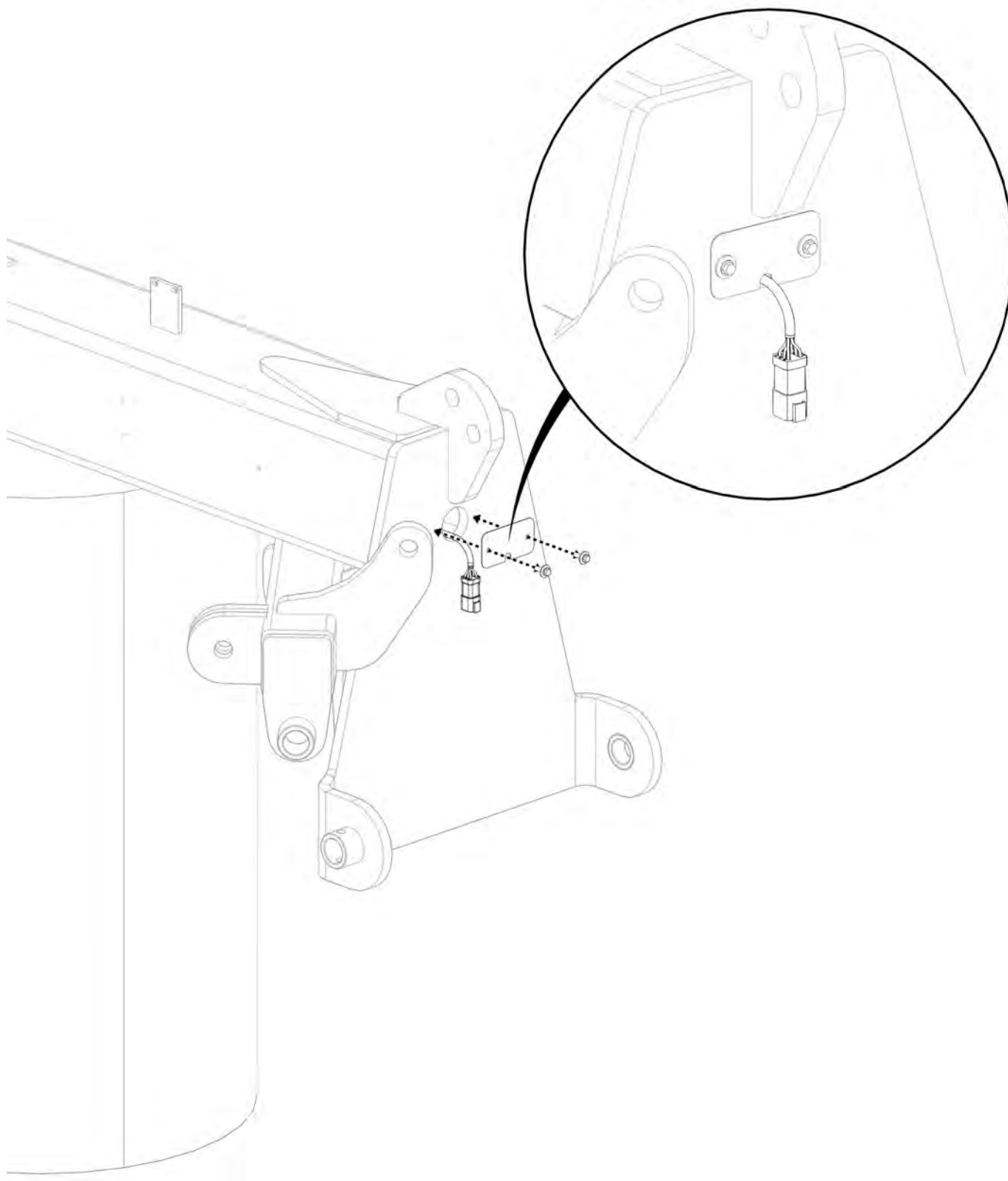
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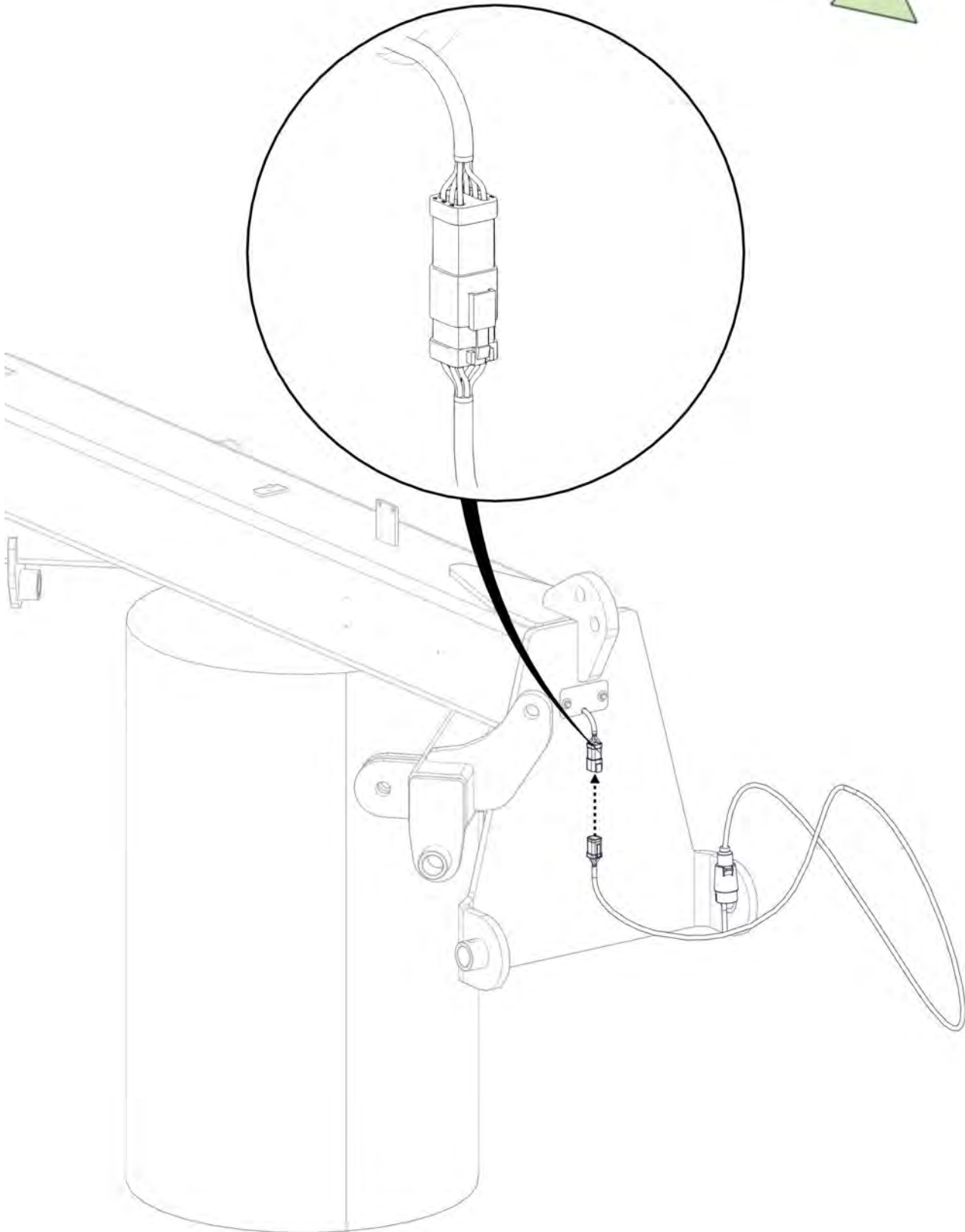
| Item No. | Description             | Number          | Qty |
|----------|-------------------------|-----------------|-----|
| 1        | M6 x 20mm Trilobe Screw | 0211-M620MZPHTF | 2   |
| 2        | Wiring capping plate    | 1500-122        | 1   |



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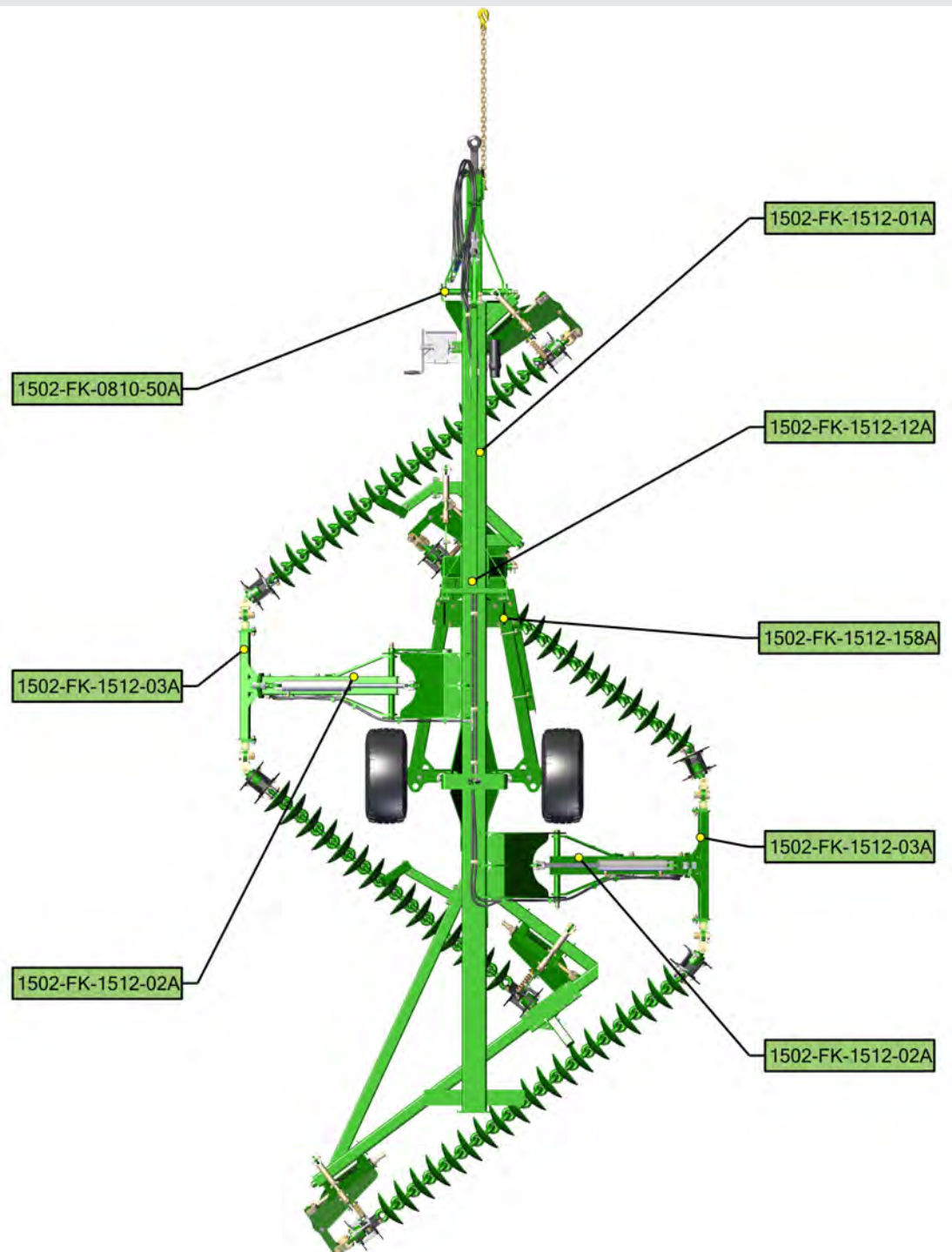


| Item No. | Description                | Number     | Qty |
|----------|----------------------------|------------|-----|
| 1        | Orchard Leveller Light Kit | 1502-LK-OL | 1   |

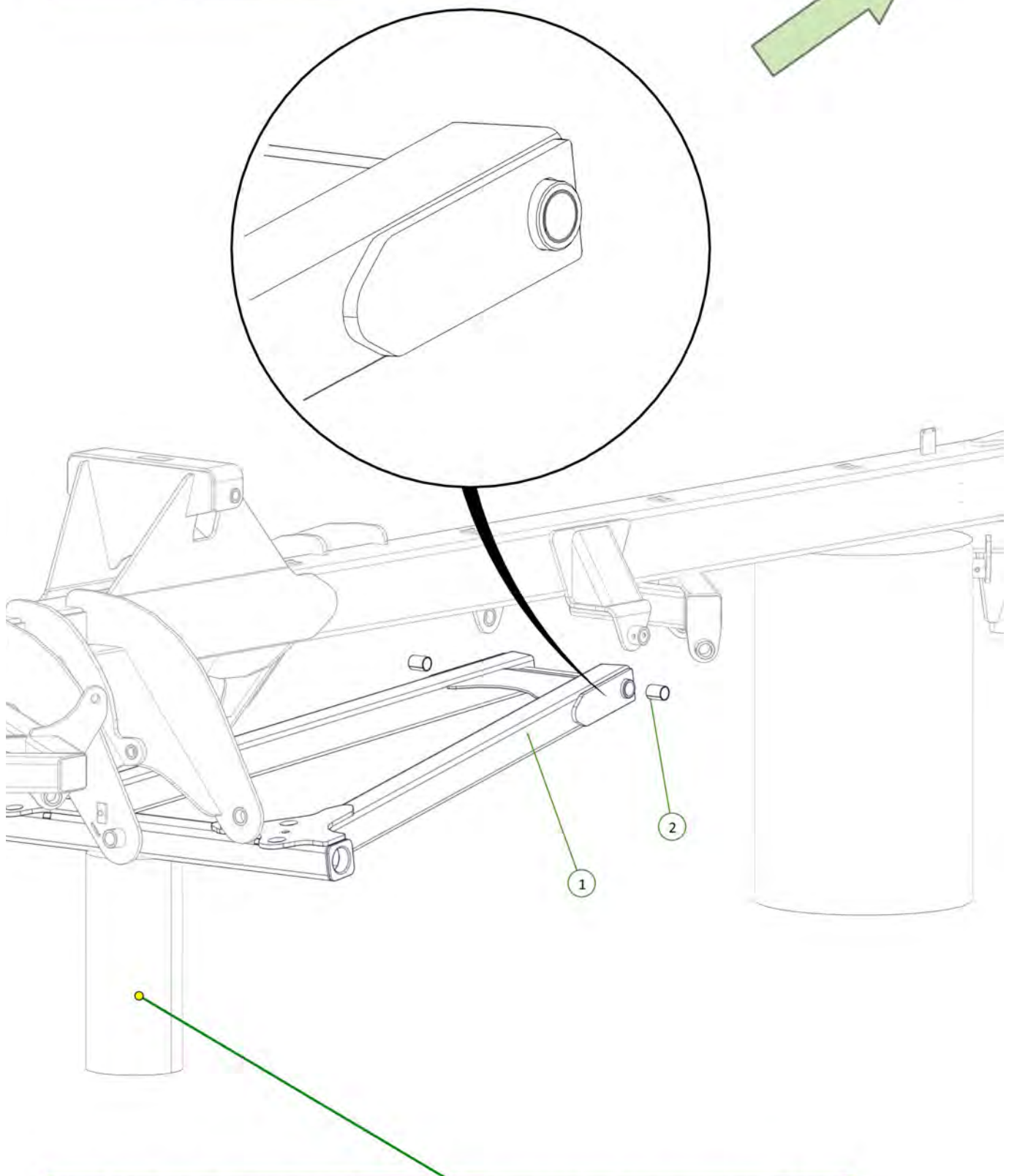




# Section 3 - Assembly



| Item No. | Description          | Number        | Qty |
|----------|----------------------|---------------|-----|
| 1        | Wheel Arm Frame      | 0810-158      | 1   |
| 2        | 35 ID x 50mm DU Bush | 0113-MB3550DU | 2   |

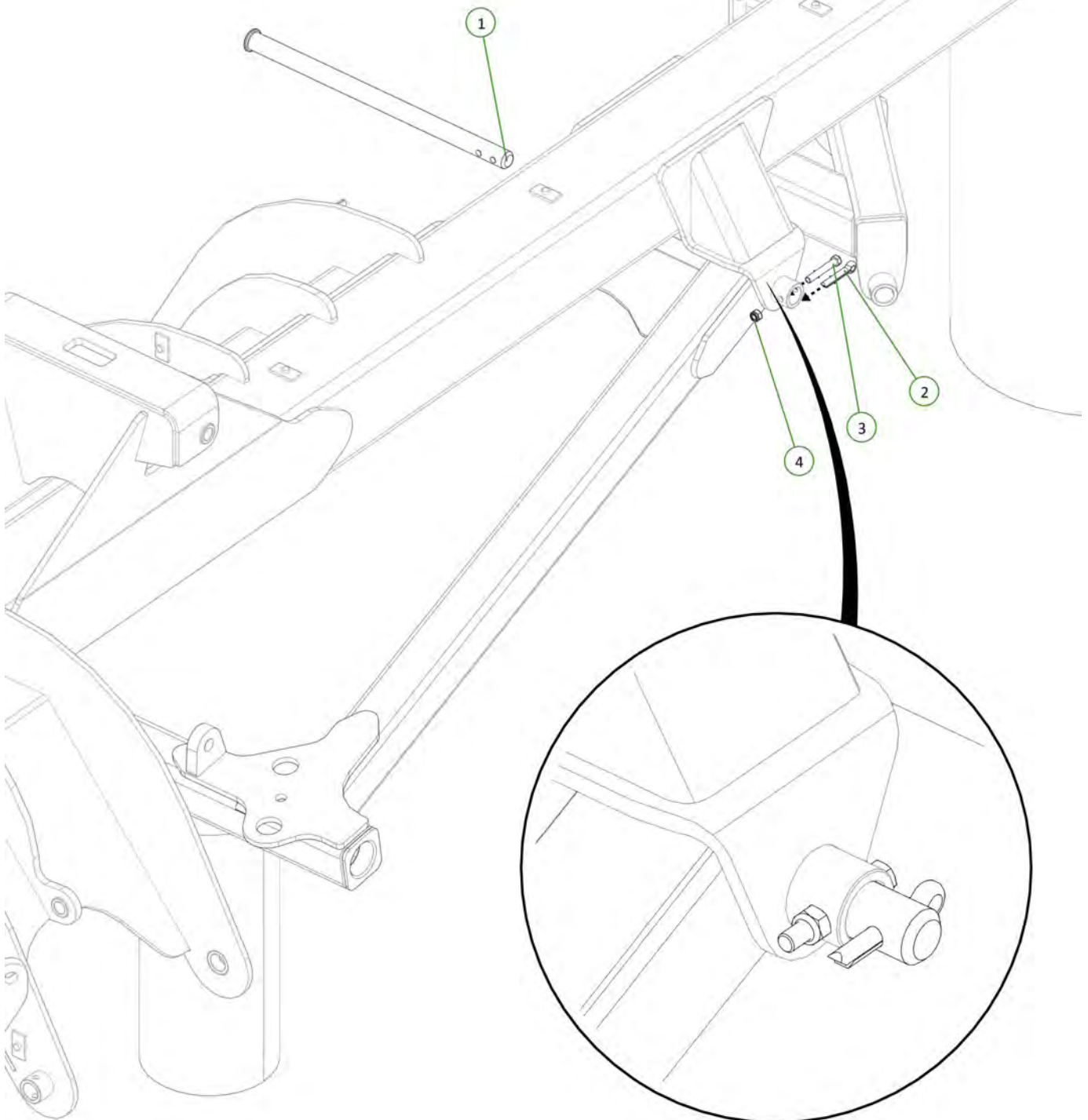


Use forklift to lift arm, insert bushes, and support wheel arm with a block

| Item No. | Description                | Number        | Qty |
|----------|----------------------------|---------------|-----|
| 1        | Long Pivot Pin             | 1501-35615    | 1   |
| 2        | Cotter Pin M13 x 63        | 0261-PINC1363 | 1   |
| 3        | M12 x 80 Class 8.8 ZP Bolt | 0211-1280     | 1   |
| 4        | Nyloc Nut M12              | 0221-NYL12    | 1   |



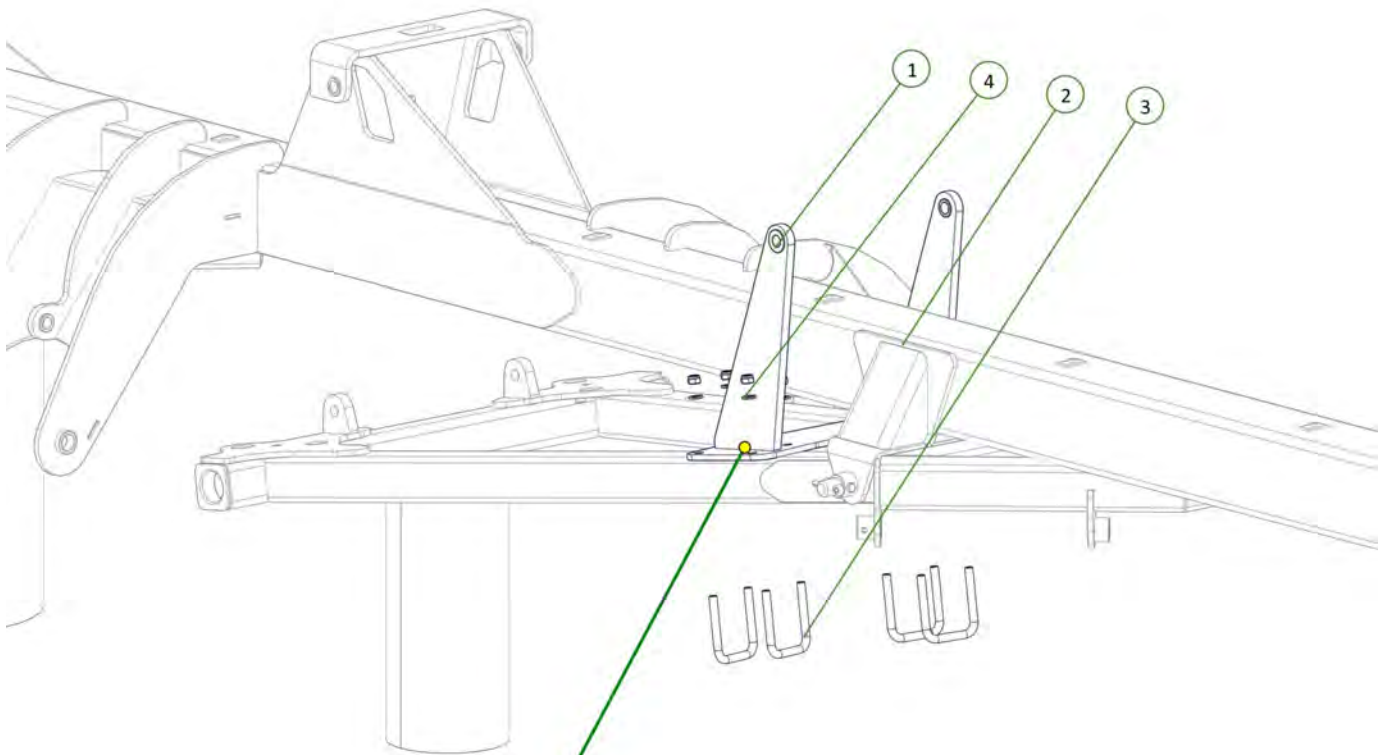
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| Item No. | Description                      | Number        | Qty |
|----------|----------------------------------|---------------|-----|
| 1        | Level Lift Mount                 | 1510-261      | 1   |
| 2        | Nyloc Nut M16                    | 0221-NYL16    | 8   |
| 3        | U-Bolt M16 x 135 Deep x 104 Wide | 0271-16135104 | 4   |
| 4        | Washer Flat M16                  | 0231-F16      | 8   |

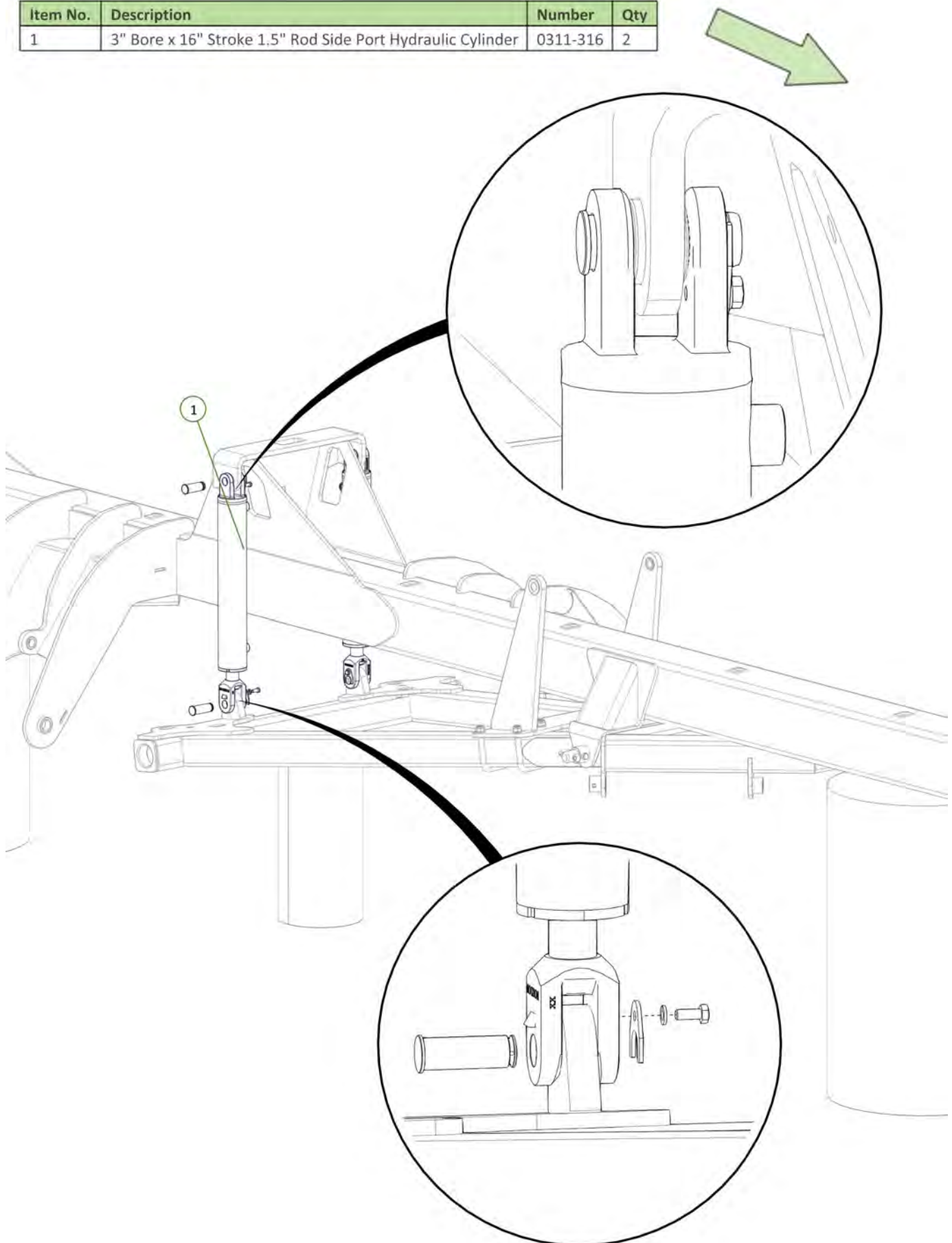


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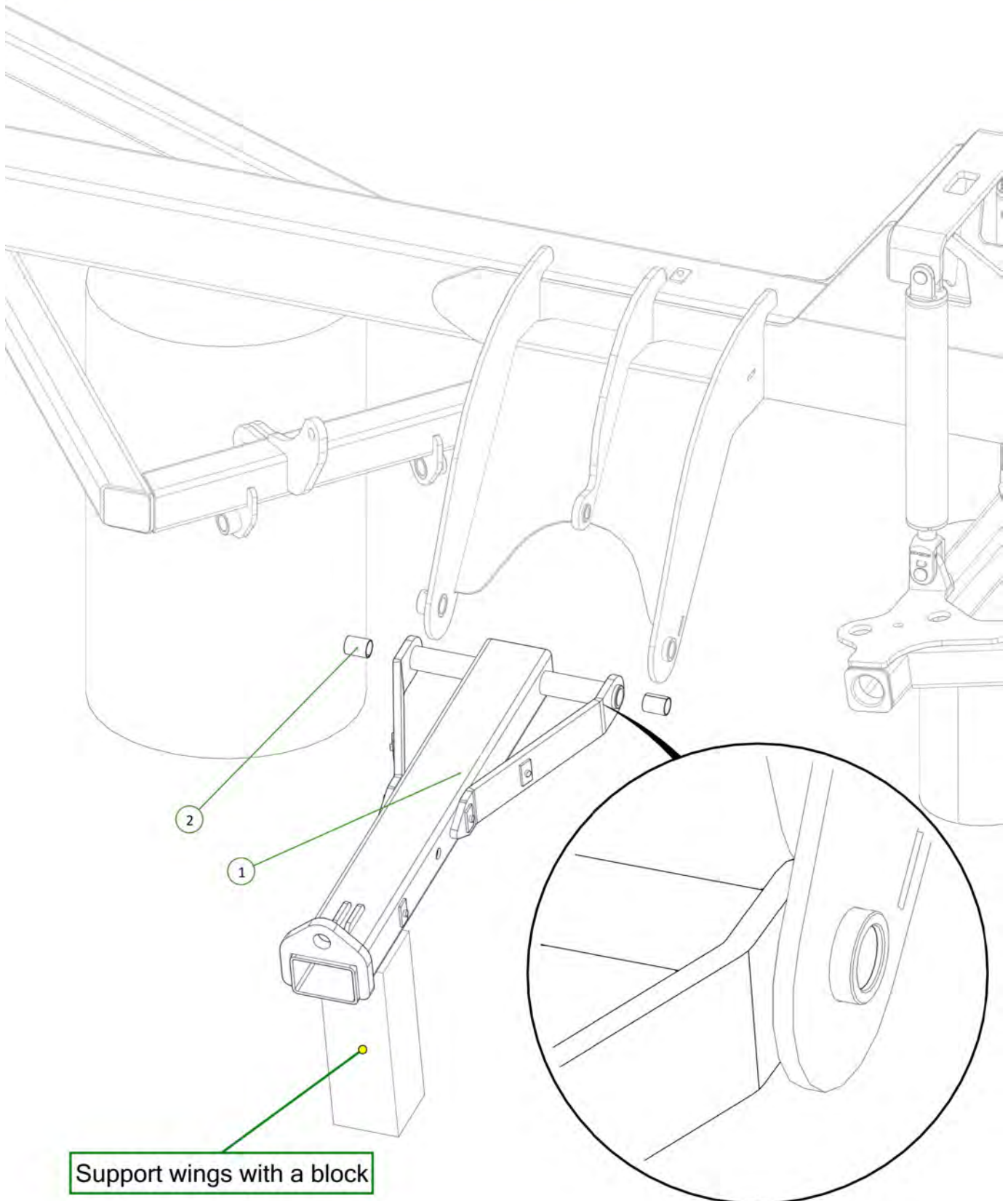


Do not tight nuts at this stage

| Item No. | Description                                                | Number   | Qty |
|----------|------------------------------------------------------------|----------|-----|
| 1        | 3" Bore x 16" Stroke 1.5" Rod Side Port Hydraulic Cylinder | 0311-316 | 2   |



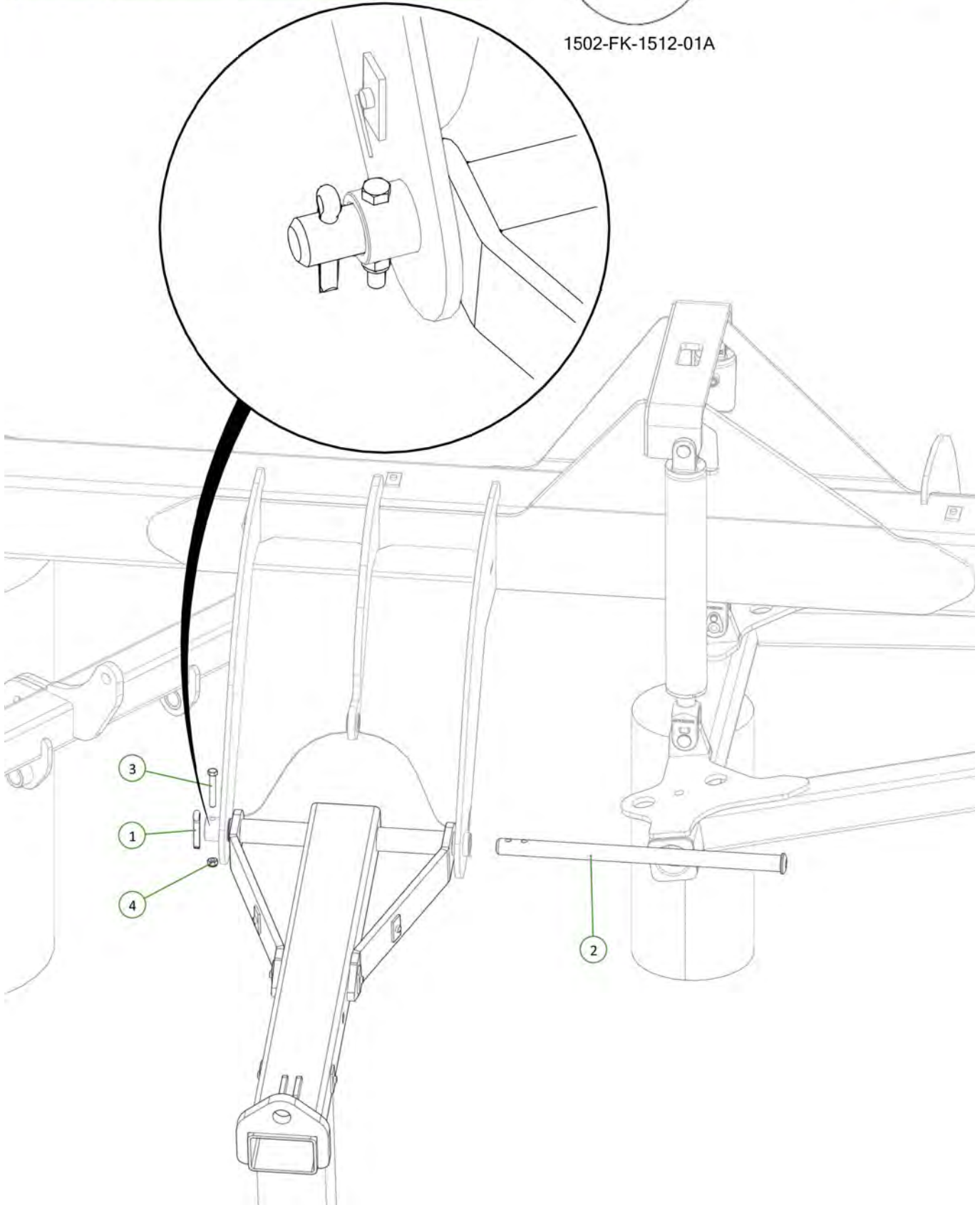
| Item No. | Description                   | Number        | Qty |
|----------|-------------------------------|---------------|-----|
| 1        | 3.5-4.5m KDH Inner Wing Frame | 1512-02       | 1   |
| 2        | 35 ID x 50mm DU Bush          | 0113-MB3550DU | 2   |



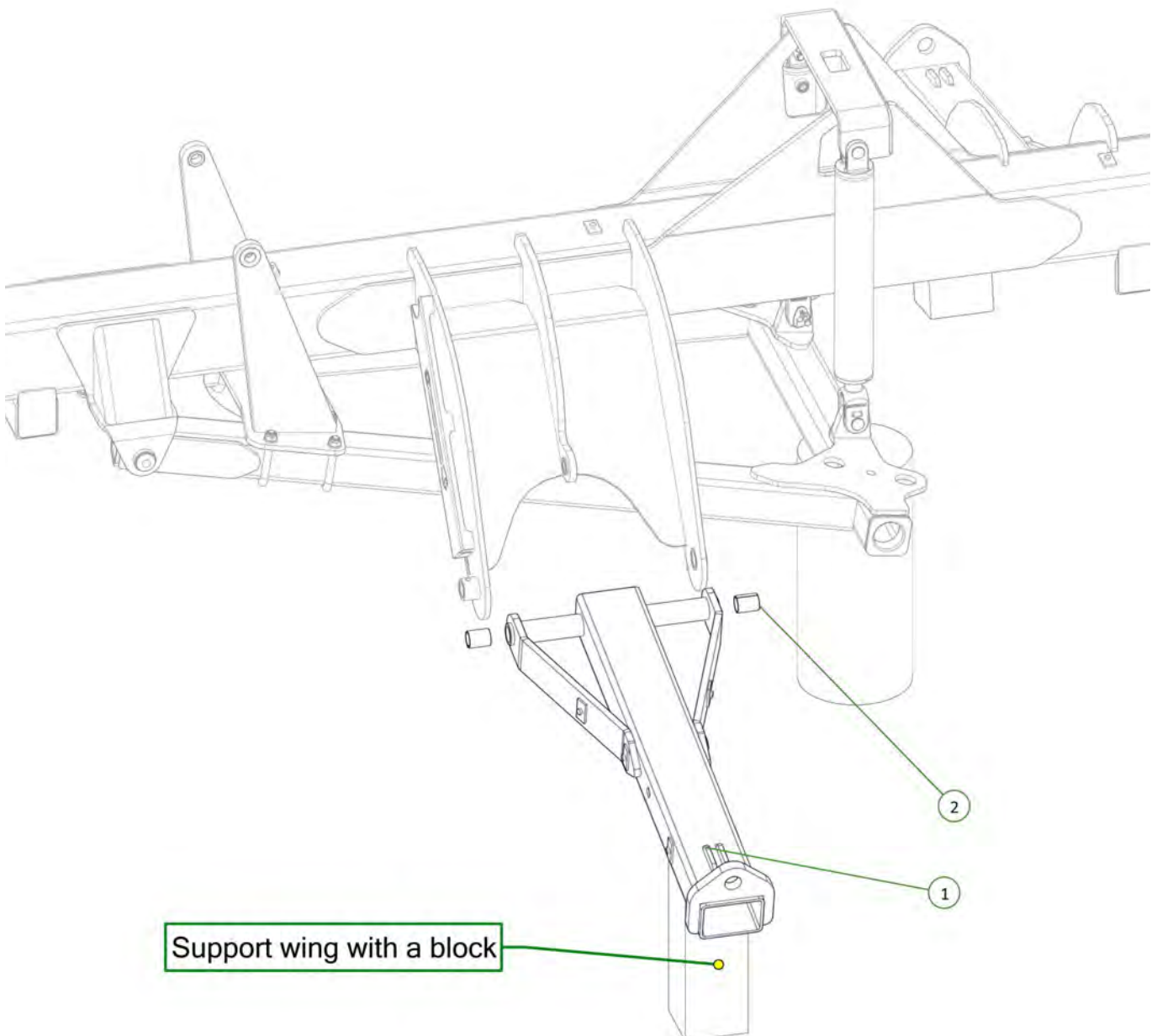
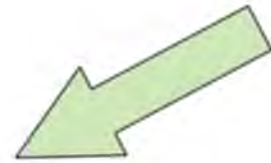
| Item No. | Description                | Number        | Qty |
|----------|----------------------------|---------------|-----|
| 1        | Cotter Pin M13 x 63        | 0261-PINC1363 | 1   |
| 2        | Long Pivot Pin             | 1501-35615    | 1   |
| 3        | M12 x 80 Class 8.8 ZP Bolt | 0211-1280     | 1   |
| 4        | Nyloc Nut M12              | 0221-NYL12    | 1   |



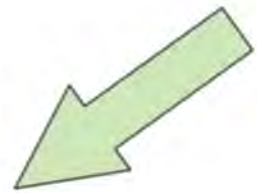
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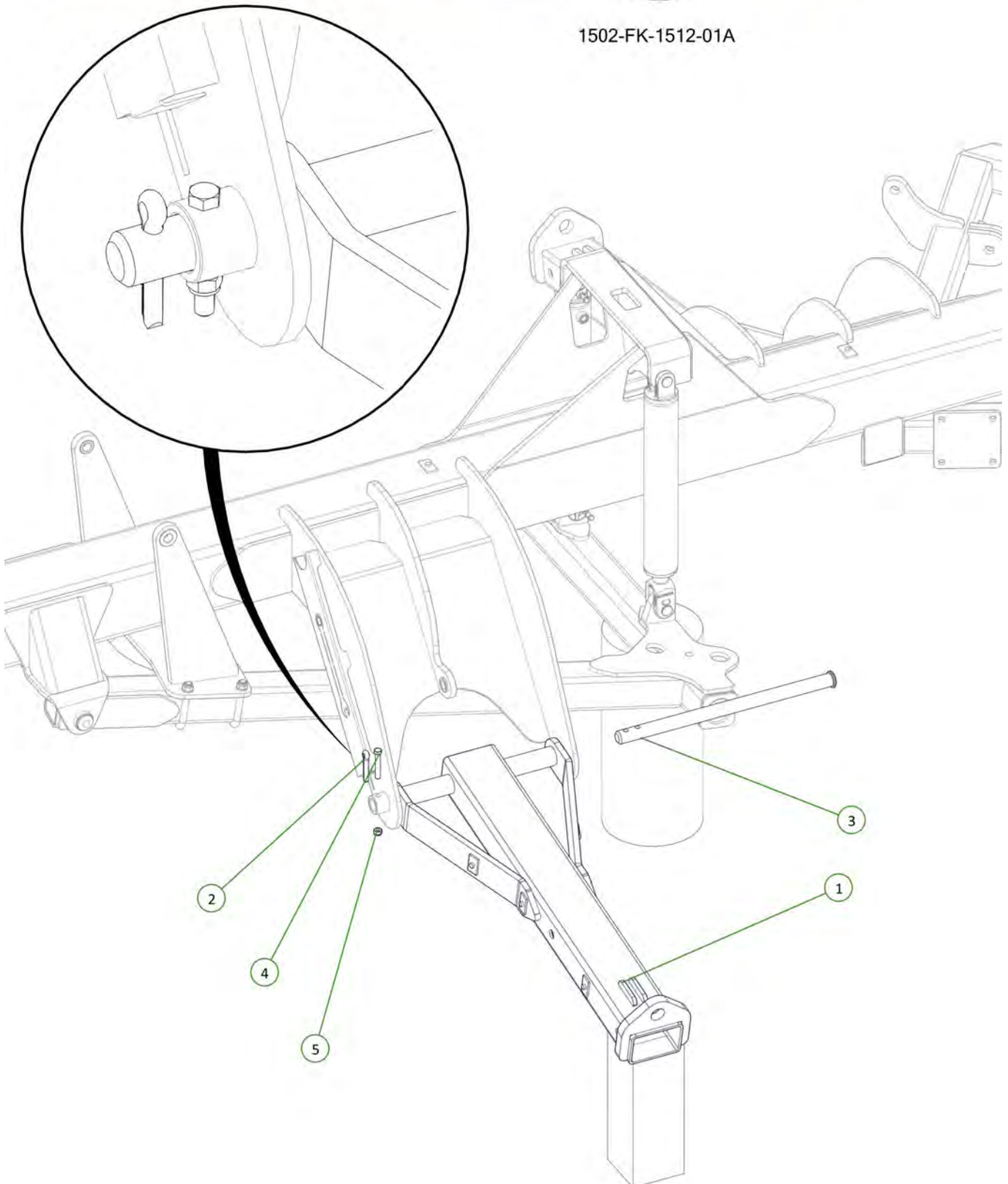
| Item No. | Description                   | Number        | Qty |
|----------|-------------------------------|---------------|-----|
| 1        | 3.5-4.5m KDH Inner Wing Frame | 1512-02       | 1   |
| 2        | 35 ID x 50mm DU Bush          | 0113-MB3550DU | 2   |



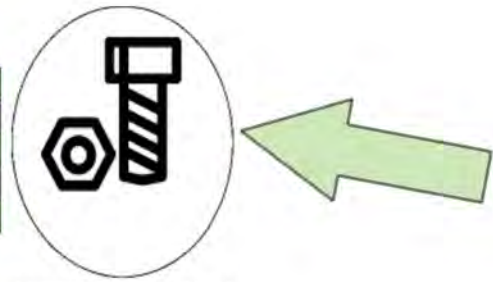
| Item No. | Description                   | Number        | Qty |
|----------|-------------------------------|---------------|-----|
| 1        | 3.5-4.5m KDH Inner Wing Frame | 1512-02       | 1   |
| 2        | Cotter Pin M13 x 63           | 0261-PINC1363 | 1   |
| 3        | Long Pivot Pin                | 1501-35615    | 1   |
| 4        | M12 x 80 Class 8.8 ZP Bolt    | 0211-1280     | 1   |
| 5        | Nyloc Nut M12                 | 0221-NYL12    | 1   |



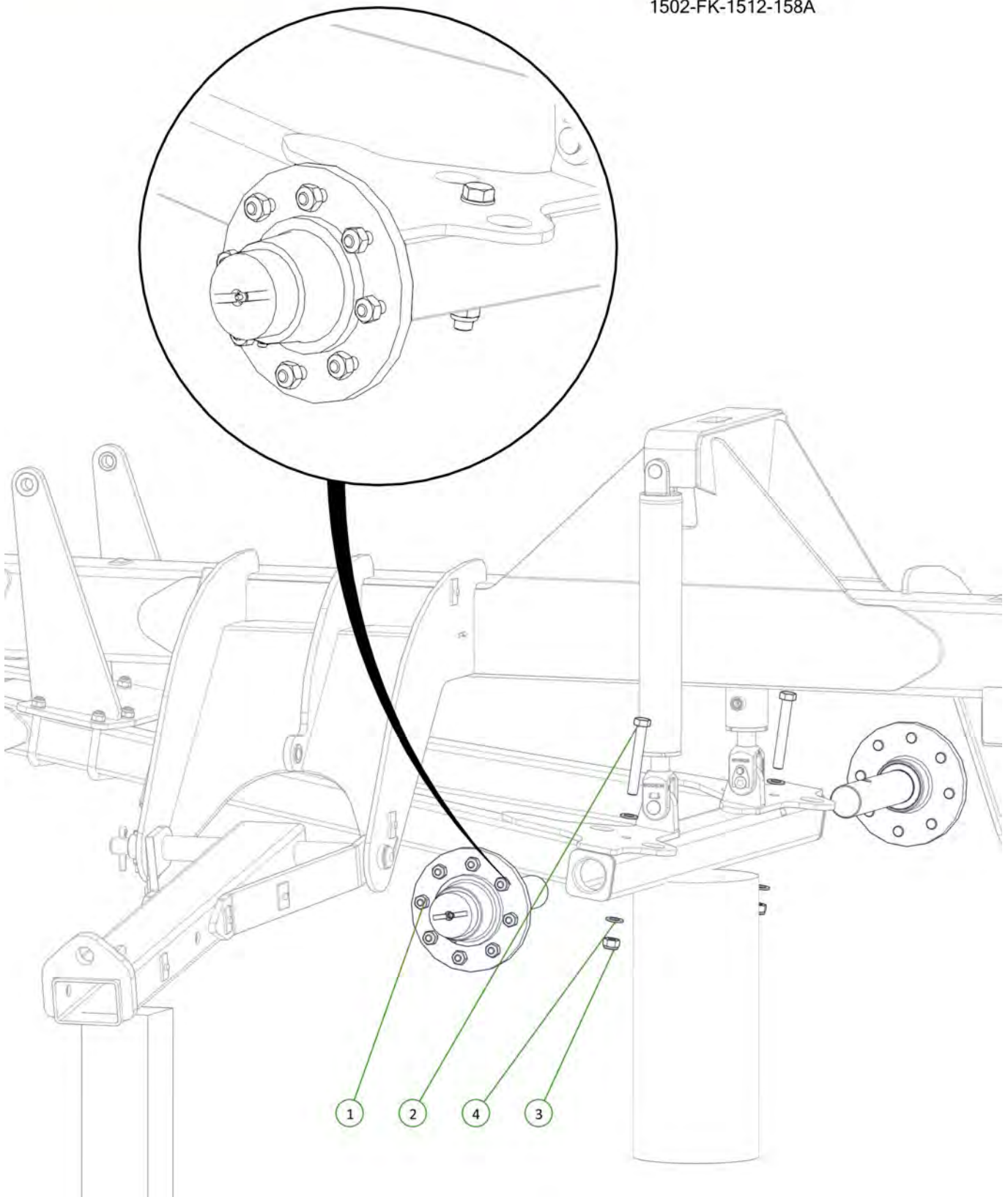
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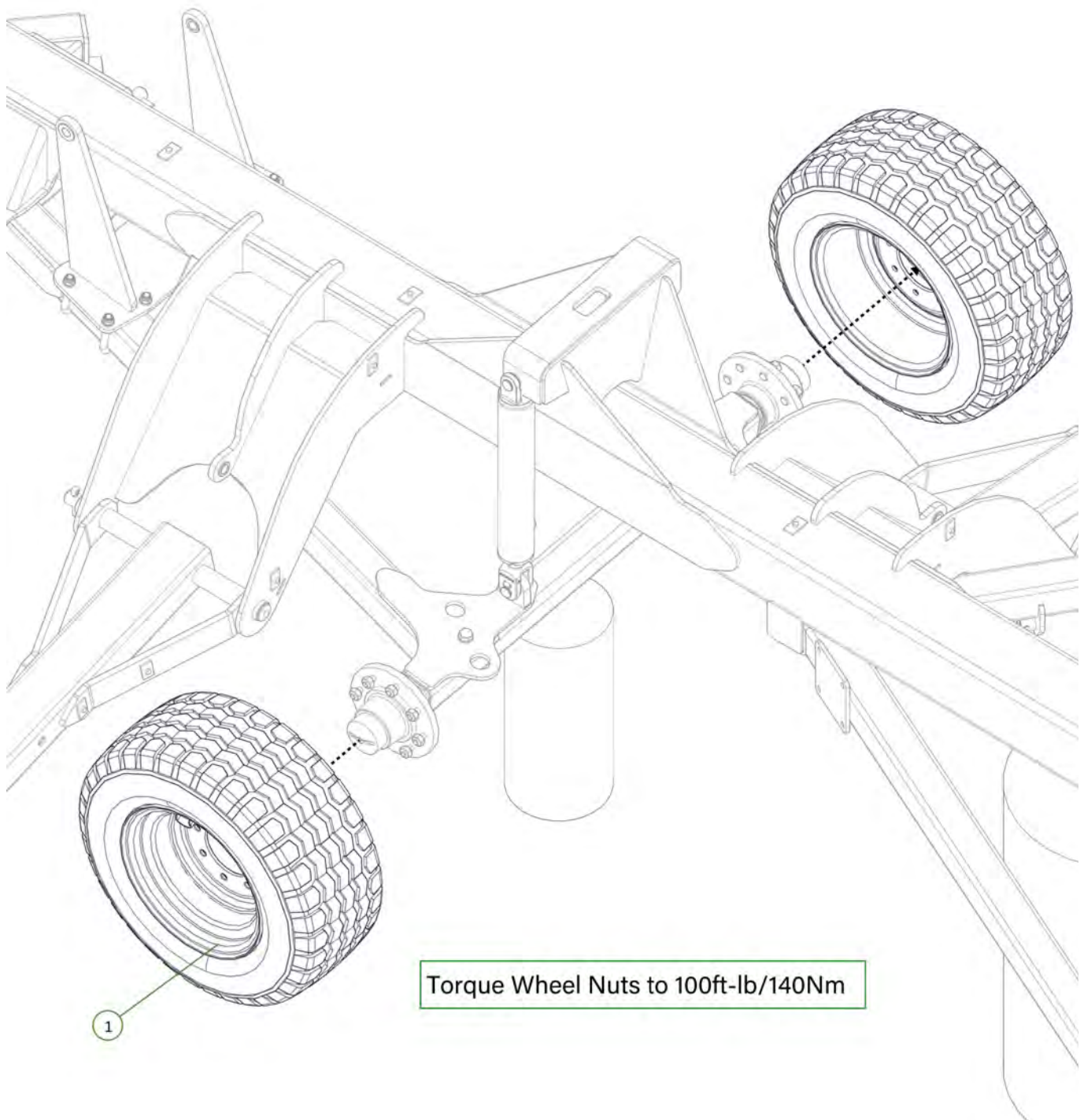
| Item No. | Description                                    | Number          | Qty |
|----------|------------------------------------------------|-----------------|-----|
| 1        | 2.75"R 6 Tonne 8 on 8" PCD Hub & Stub Complete | 0733-SH27596880 | 2   |
| 2        | M20 x 150 Class 8.8 ZP Bolt                    | 0211-20150      | 2   |
| 3        | Nyloc Nut M20                                  | 0221-NYL20      | 2   |
| 4        | Washer Flat M20                                | 0231-F20        | 4   |



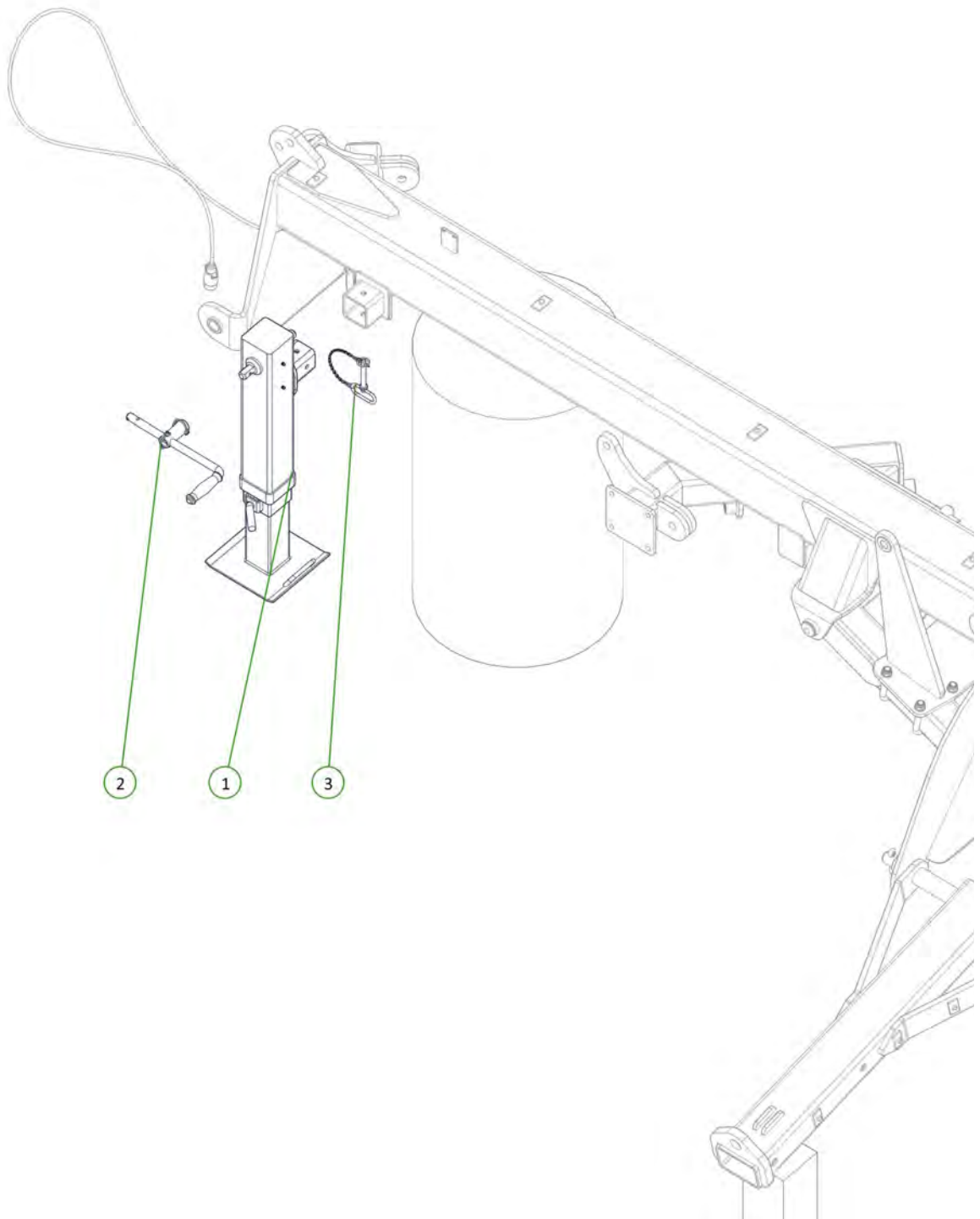
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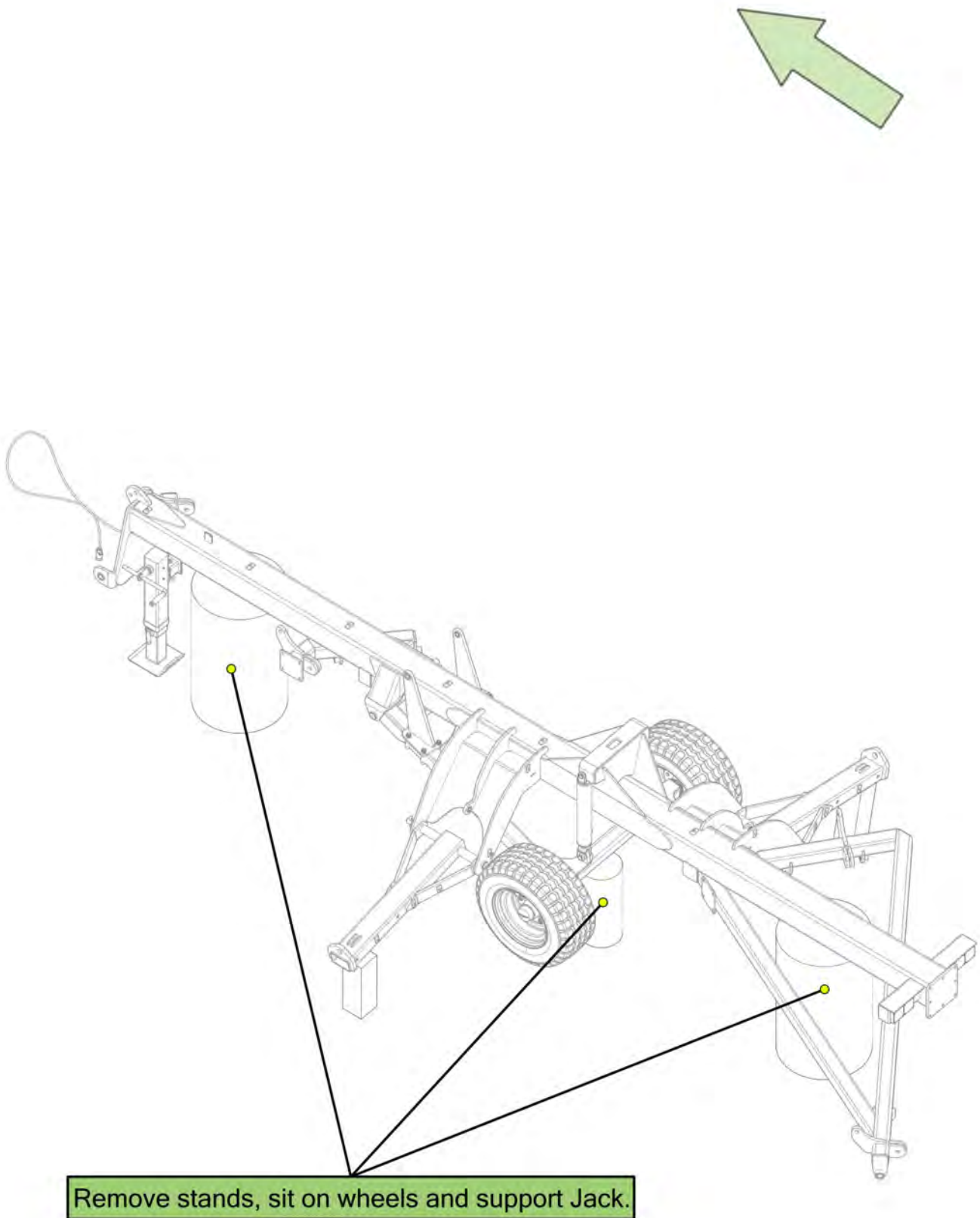


| Item No. | Description                               | Number          | Qty |
|----------|-------------------------------------------|-----------------|-----|
| 1        | 13.0/55-16 Tyre on 8 on 8 Zero Offset Rim | 0751-13.0-55-16 | 2   |



| Item No. | Description                  | Number        | Qty |
|----------|------------------------------|---------------|-----|
| 1        | Parking Jack 4500kg          | 0801-SAK45B   | 1   |
| 2        | Jack Handle Assembly 4 Tonne | 0801-622110HA | 1   |
| 3        | Jack Pin                     | 0801-B3077    | 1   |

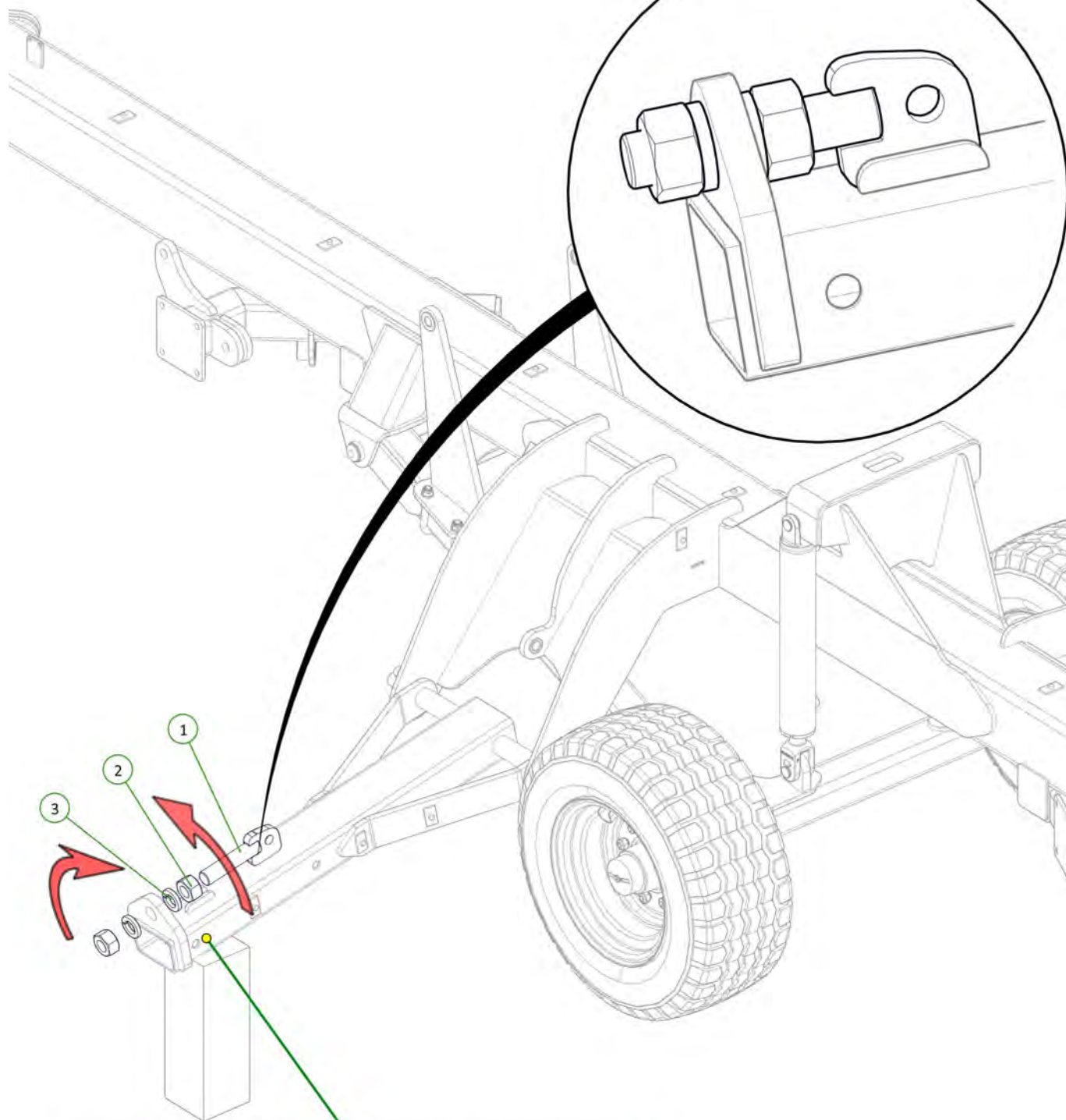




| Item No. | Description            | Number     | Qty |
|----------|------------------------|------------|-----|
| 1        | Wing Height Adjust Rod | 0810-157   | 1   |
| 2        | 1-1/2" ZP UNC Hex Nut  | 0222-112   | 2   |
| 3        | Spring Washer 1 1/2"   | 0232-S11-2 | 2   |



1502-FK-1512-02A

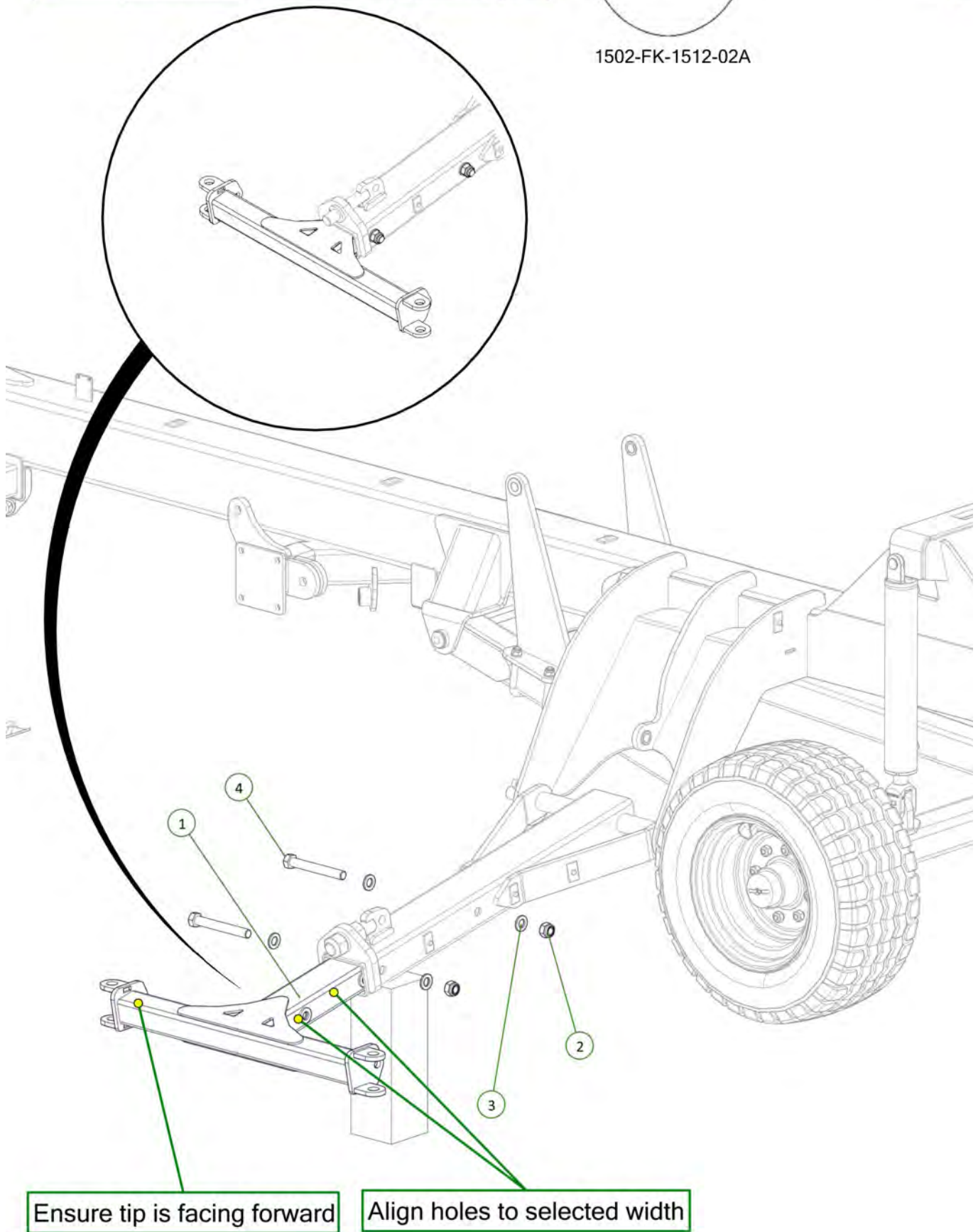


Raise wing approximately 190mm off the ground

| Item No. | Description                   | Number     | Qty |
|----------|-------------------------------|------------|-----|
| 1        | 3.5-4.5m KDH Outer Wing Frame | 1512-03    | 1   |
| 2        | Nyloc Nut M24                 | 0221-NYL24 | 2   |
| 3        | Washer Flat M24               | 0231-F24   | 4   |
| 4        | M24 x 190 Class 8.8 ZP Bolt   | 0211-24190 | 2   |



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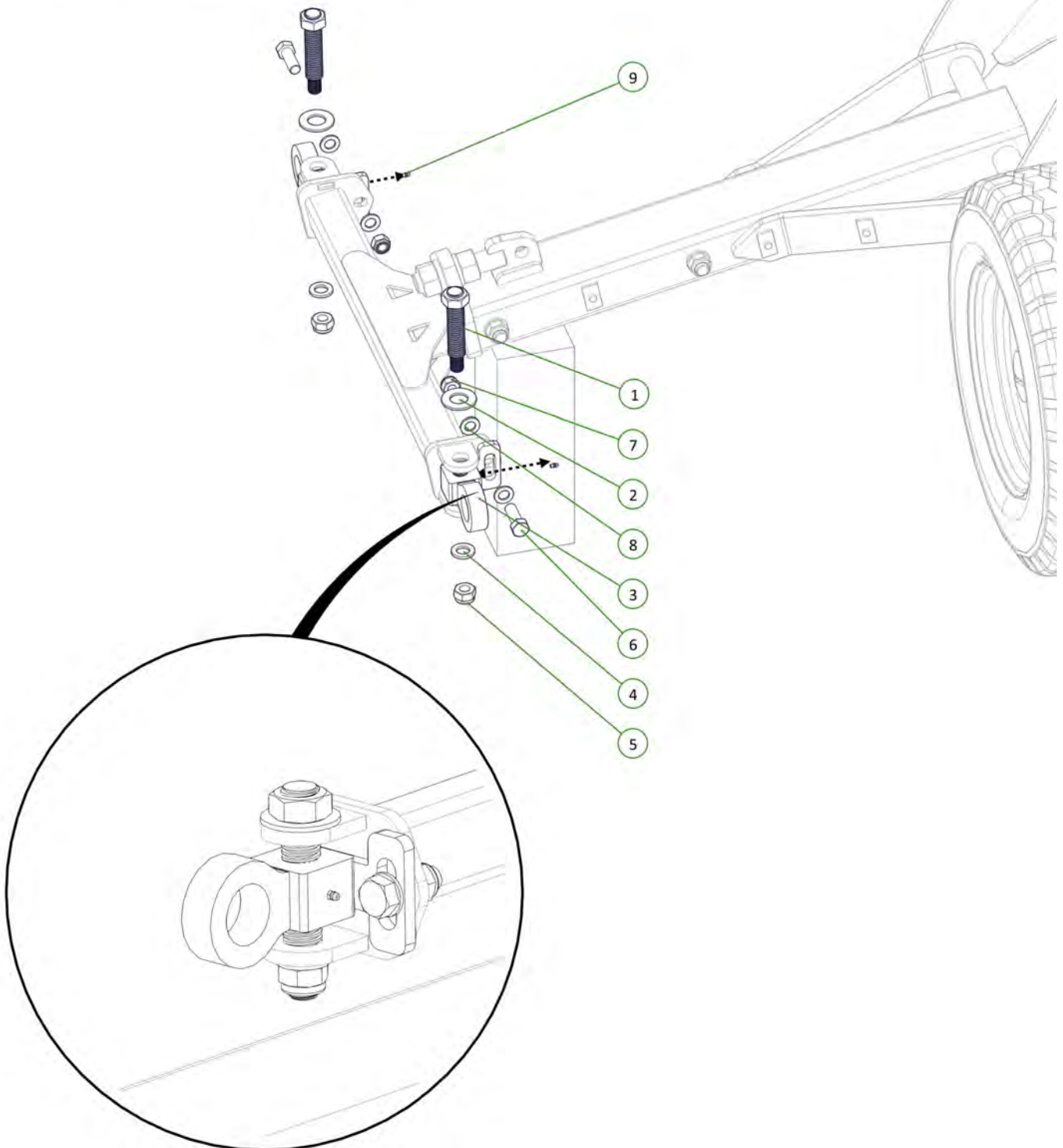


| Item No. | Description                | Number      | Qty |
|----------|----------------------------|-------------|-----|
| 1        | Adjusting Clevis Bolt      | 0810-156    | 2   |
| 2        | Washer High Tensile 1 1/4" | 0232-HT11-4 | 2   |
| 3        | Adjusting Clevis           | 0810-155    | 2   |
| 4        | Washer Flat M24            | 0231-F24    | 2   |
| 5        | Nyloc Nut M24              | 0221-NYL24  | 2   |
| 6        | M20 x 60 Class 8.8 ZP Bolt | 0211-2060   | 2   |
| 7        | Nyloc Nut M20              | 0221-NYL20  | 2   |
| 8        | Washer Flat M20            | 0231-F20    | 4   |
| 9        | Grease Nipple 1/4" UNF     | 0181-GN1-4  | 2   |

Note: Grease Nipples before fitting them



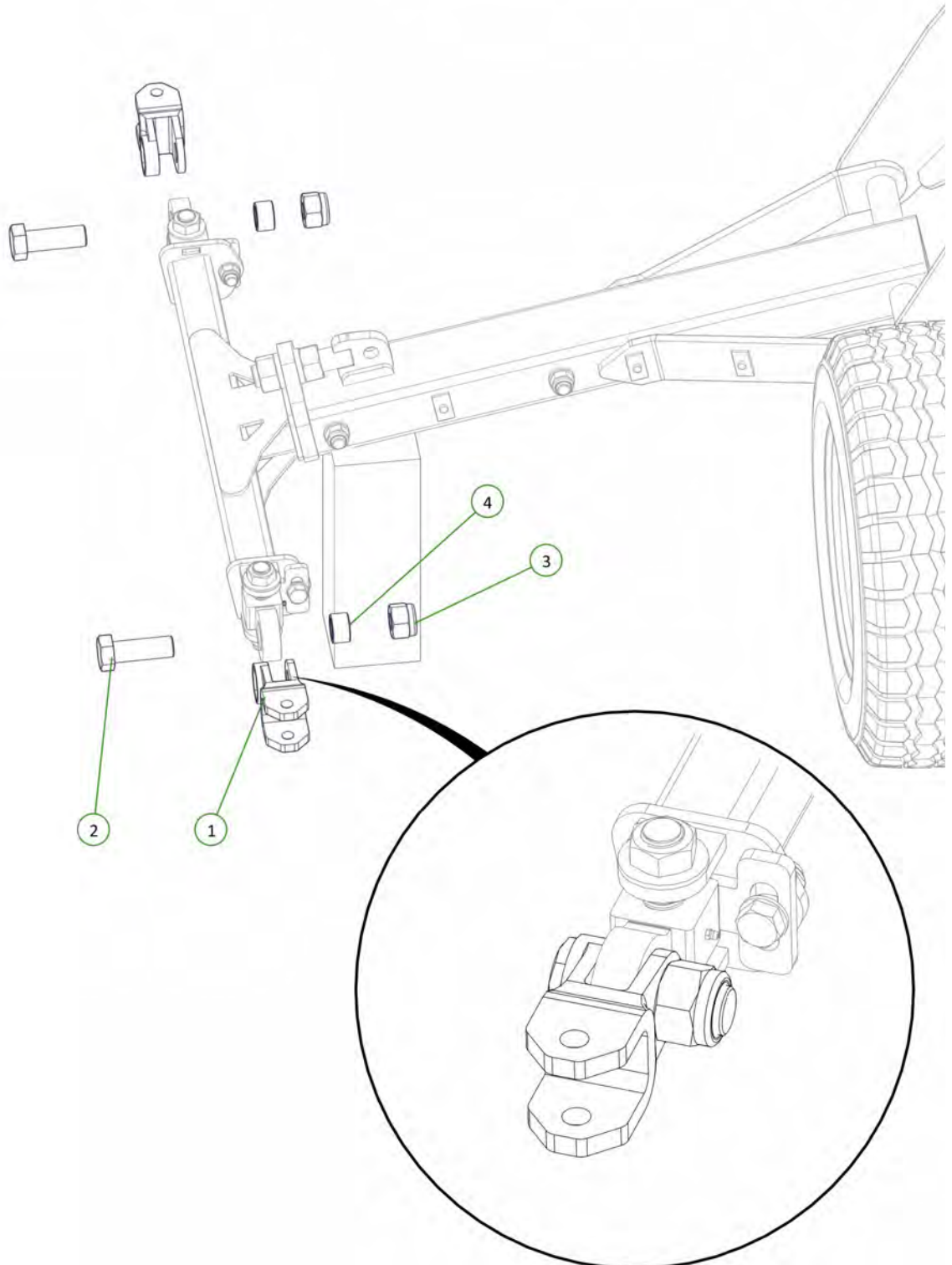
1502-FK-1512-03A



| Item No. | Description                  | Number         | Qty |
|----------|------------------------------|----------------|-----|
| 1        | Forged Clevis 21mm Bolt Hole | 0801-FC21      | 2   |
| 2        | M36 x 105 Class 8.8 ZP Bolt  | 0211-36105     | 2   |
| 3        | Nyloc Nut M36                | 0221-NYL36     | 2   |
| 4        | Wear Bush                    | 1501-365033-SS | 2   |



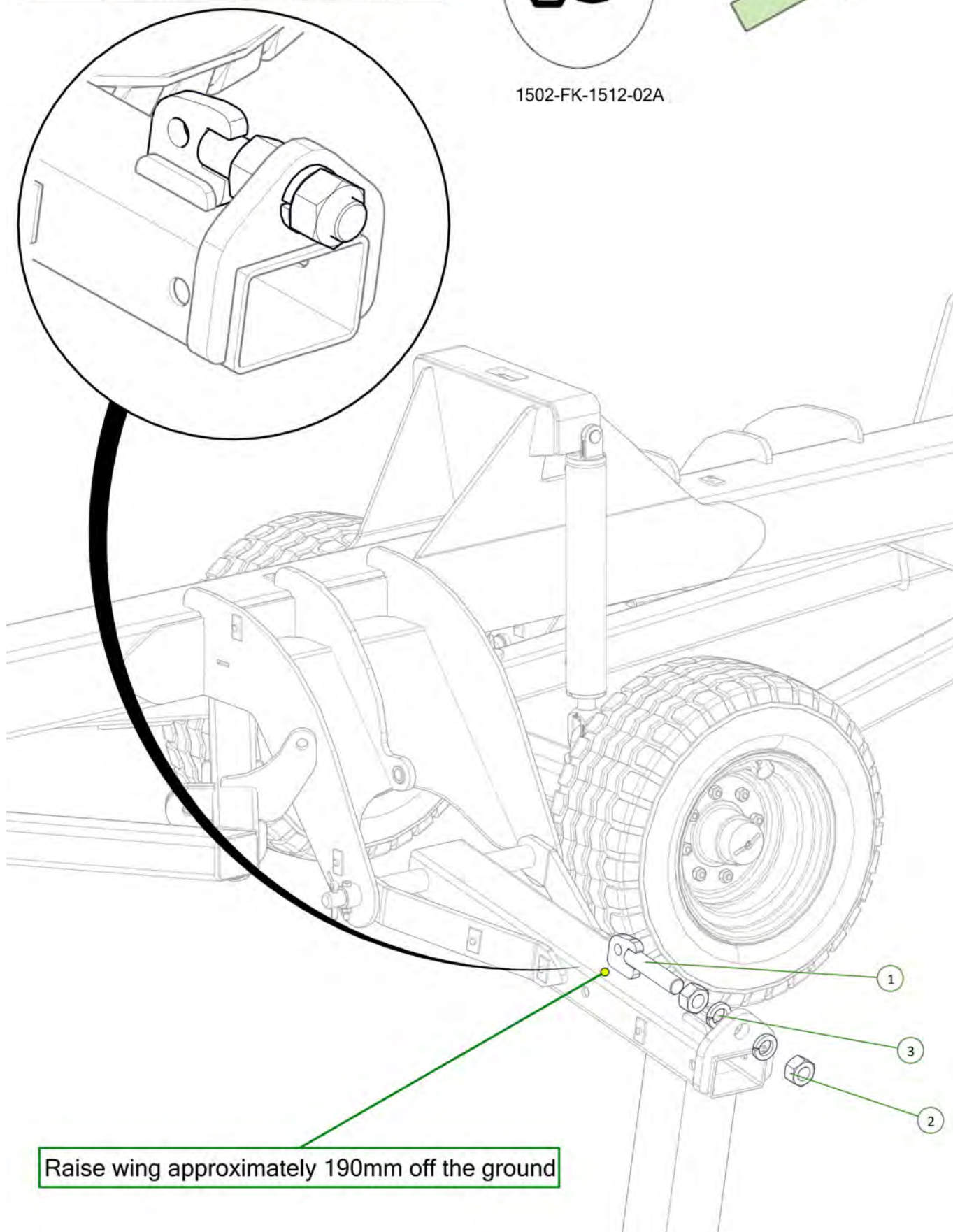
1502-FK-1512-03A



| Item No. | Description            | Number     | Qty |
|----------|------------------------|------------|-----|
| 1        | Wing Height Adjust Rod | 0810-157   | 1   |
| 2        | 1-1/2" ZP UNC Hex Nut  | 0222-112   | 2   |
| 3        | Spring Washer 1 1/2"   | 0232-S11-2 | 2   |



1502-FK-1512-02A

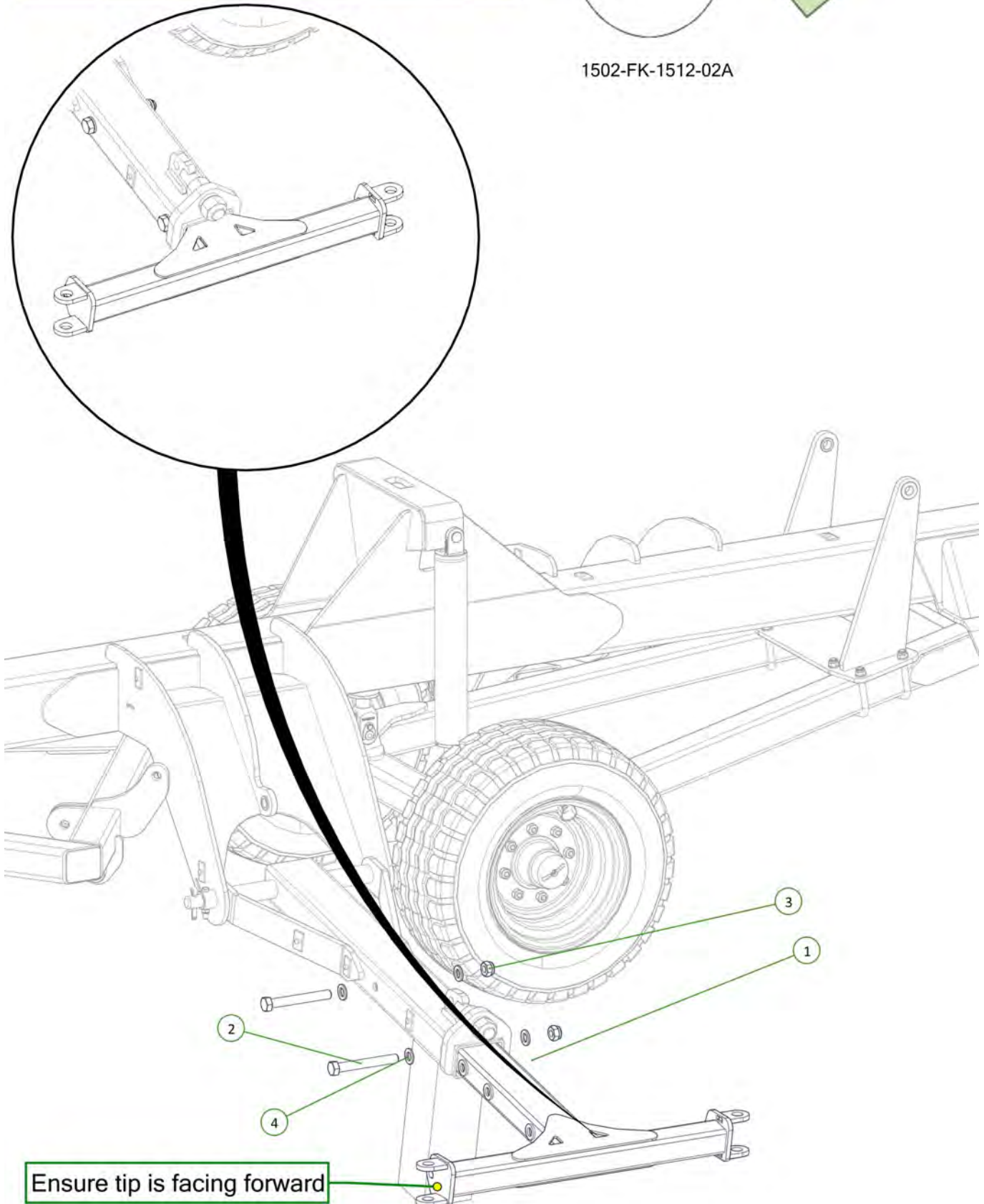


Raise wing approximately 190mm off the ground

| Item No. | Description                   | Number     | Qty |
|----------|-------------------------------|------------|-----|
| 1        | 3.5-4.5m KDH Outer Wing Frame | 1512-03    | 1   |
| 2        | M24 x 190 Class 8.8 ZP Bolt   | 0211-24190 | 2   |
| 3        | Nyloc Nut M24                 | 0221-NYL24 | 2   |
| 4        | Washer Flat M24               | 0231-F24   | 4   |



1502-FK-1512-02A

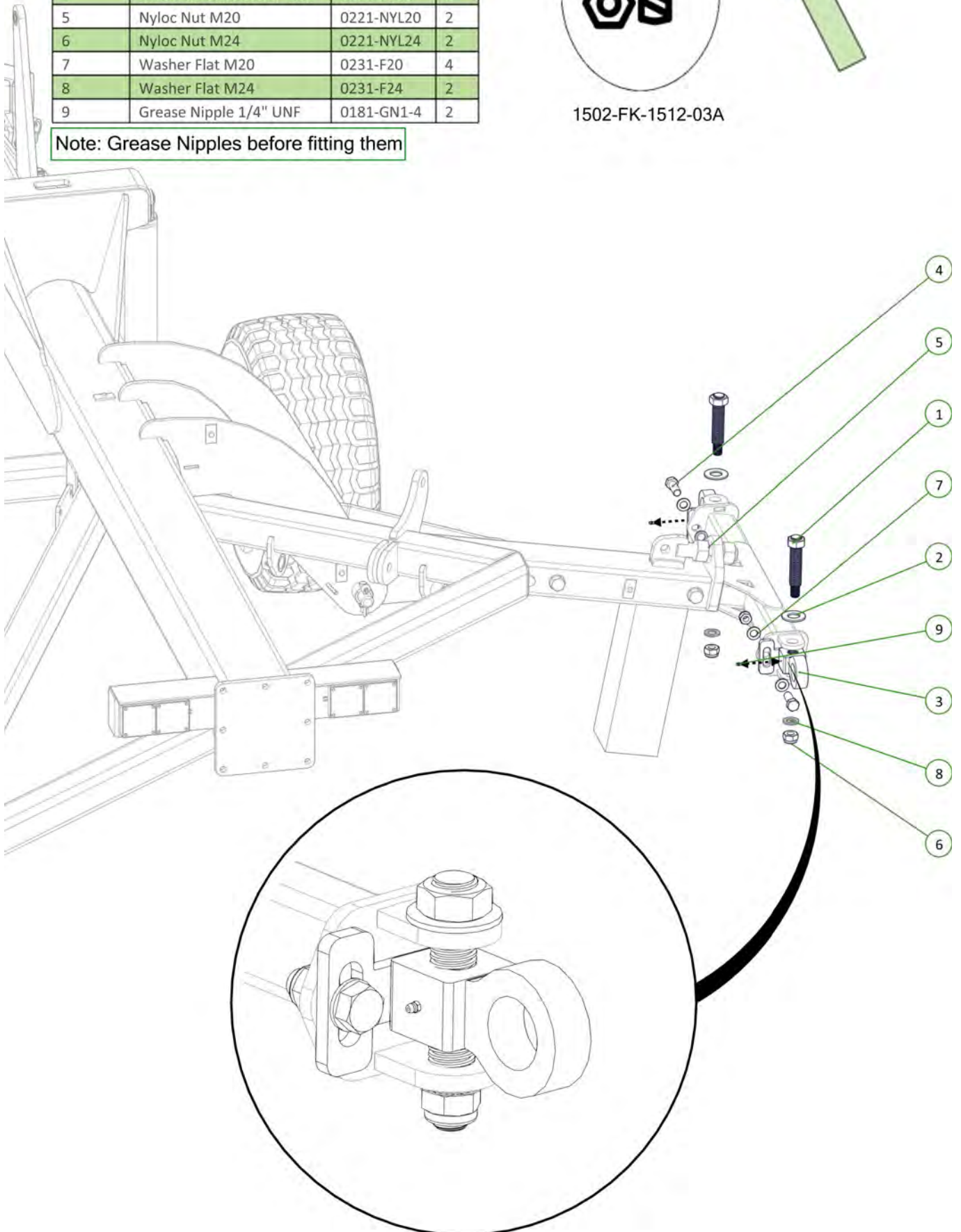


| Item No. | Description                | Number      | Qty |
|----------|----------------------------|-------------|-----|
| 1        | Adjusting Clevis Bolt      | 0810-156    | 2   |
| 2        | Washer High Tensile 1 1/4" | 0232-HT11-4 | 2   |
| 3        | Adjusting Clevis           | 0810-155    | 2   |
| 4        | M20 x 60 Class 8.8 ZP Bolt | 0211-2060   | 2   |
| 5        | Nyloc Nut M20              | 0221-NYL20  | 2   |
| 6        | Nyloc Nut M24              | 0221-NYL24  | 2   |
| 7        | Washer Flat M20            | 0231-F20    | 4   |
| 8        | Washer Flat M24            | 0231-F24    | 2   |
| 9        | Grease Nipple 1/4" UNF     | 0181-GN1-4  | 2   |

**Note:** Grease Nipples before fitting them



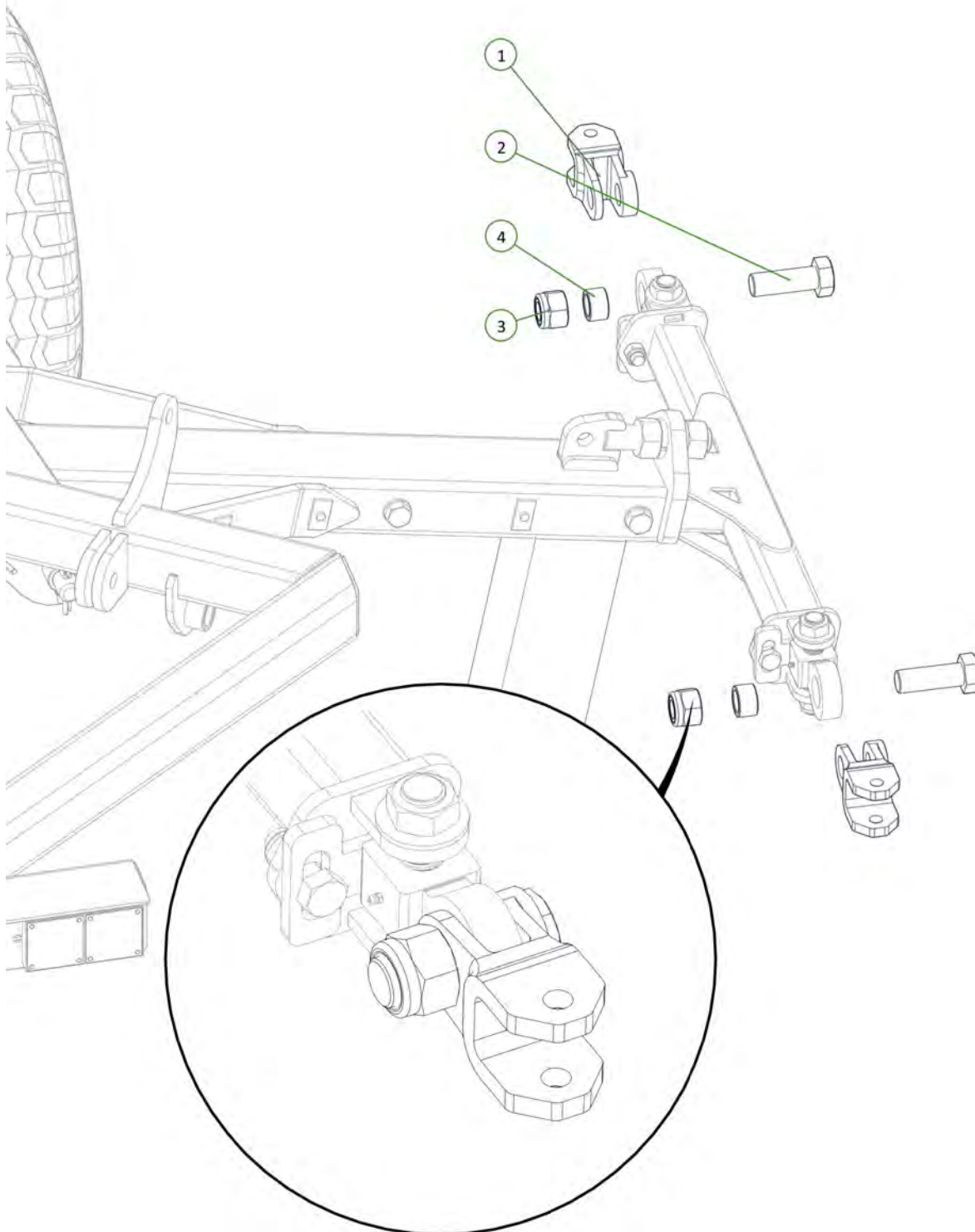
1502-FK-1512-03A



| Item No. | Description                  | Number         | Qty |
|----------|------------------------------|----------------|-----|
| 1        | Forged Clevis 21mm Bolt Hole | 0801-FC21      | 2   |
| 2        | M36 x 105 Class 8.8 ZP Bolt  | 0211-36105     | 2   |
| 3        | Nyloc Nut M36                | 0221-NYL36     | 2   |
| 4        | Wear Bush                    | 1501-365033-SS | 2   |



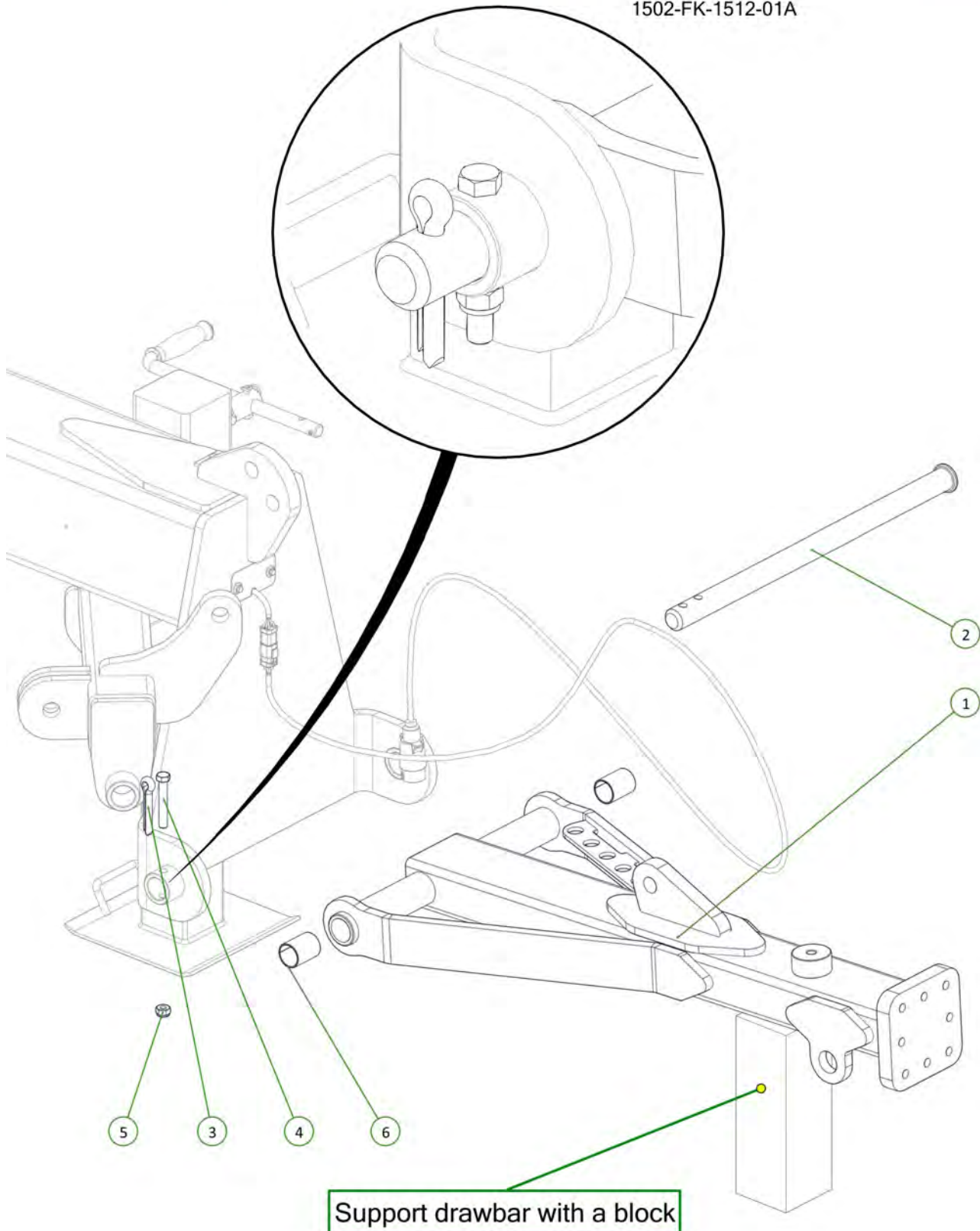
1502-FK-1512-03A



| Item No. | Description                | Number        | Qty |
|----------|----------------------------|---------------|-----|
| 1        | Small Drawbar Frame        | 0810-50       | 1   |
| 2        | Long Pivot Pin             | 1501-35615    | 1   |
| 3        | Cotter Pin M13 x 63        | 0261-PINC1363 | 1   |
| 4        | M12 x 80 Class 8.8 ZP Bolt | 0211-1280     | 2   |
| 5        | Nyloc Nut M12              | 0221-NYL12    | 2   |
| 6        | 35 ID x 50mm DU Bush       | 0113-MB3550DU | 2   |



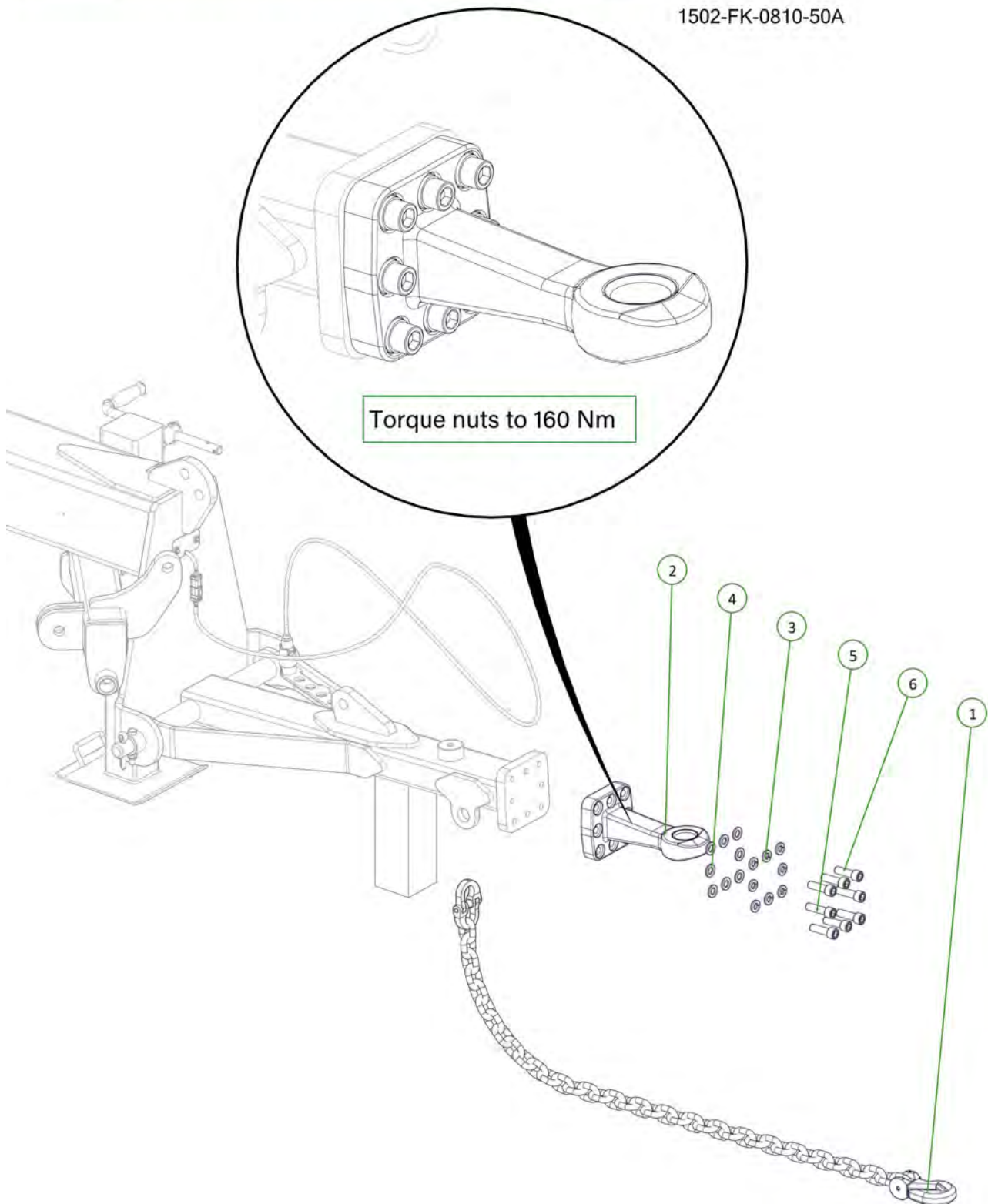
1502-FK-1512-01A



| Item No. | Description                          | Number        | Qty |
|----------|--------------------------------------|---------------|-----|
| 1        | Safety Chain Assembly                | 0810-16       | 1   |
| 2        | 50mm Flanged Drawbar Eye             | 1501-RCBO50MM | 1   |
| 3        | Washer Spring M16                    | 0231-S16      | 8   |
| 4        | Washer Flat M16                      | 0231-F16      | 8   |
| 5        | Socket Head Bolt M16 x 60 Class 10.9 | 0211-SH1660   | 2   |
| 6        | Socket Head Bolt M16 x 55 Class 10.9 | 0211-SH1655   | 6   |



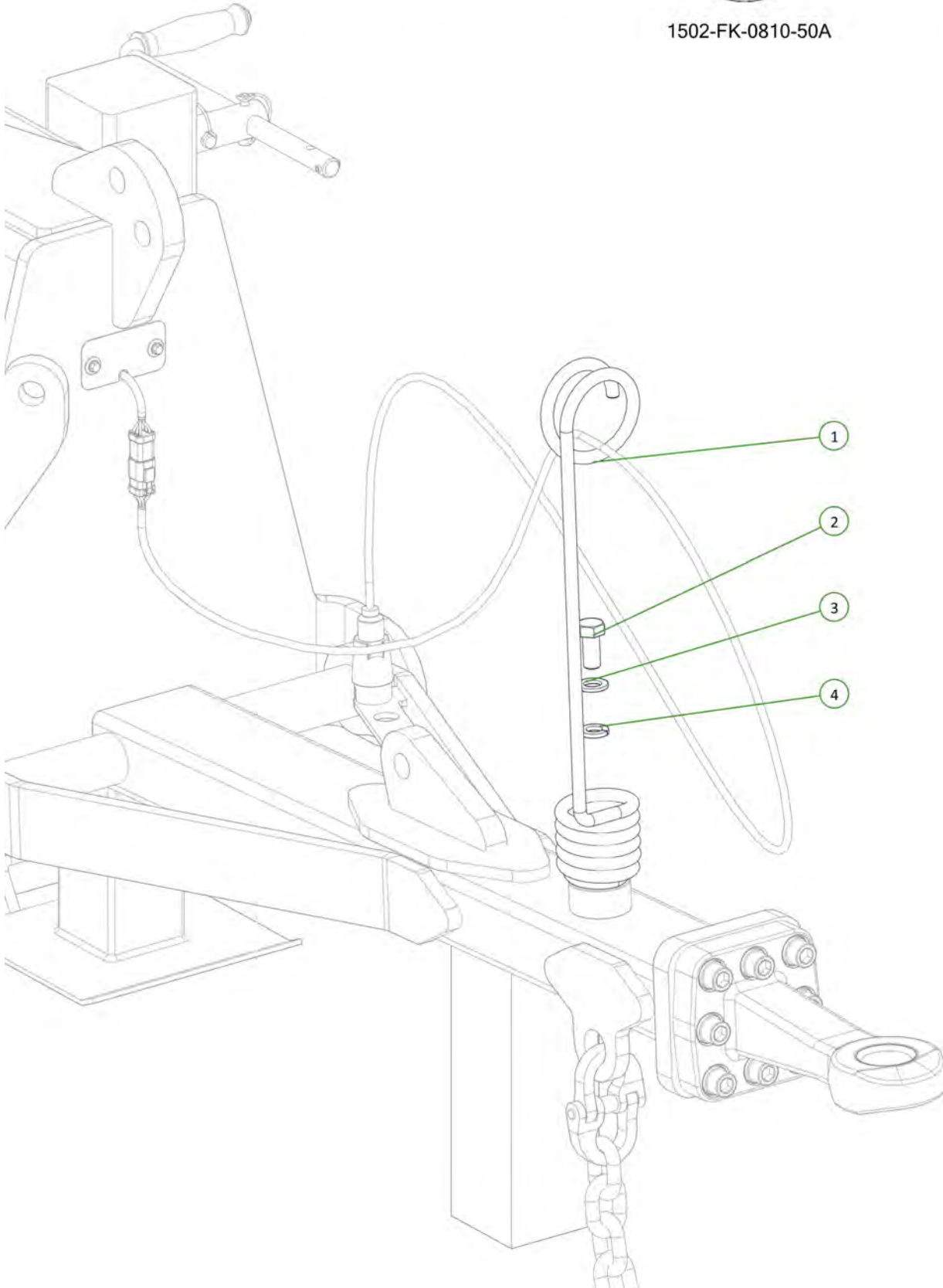
1502-FK-0810-50A



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



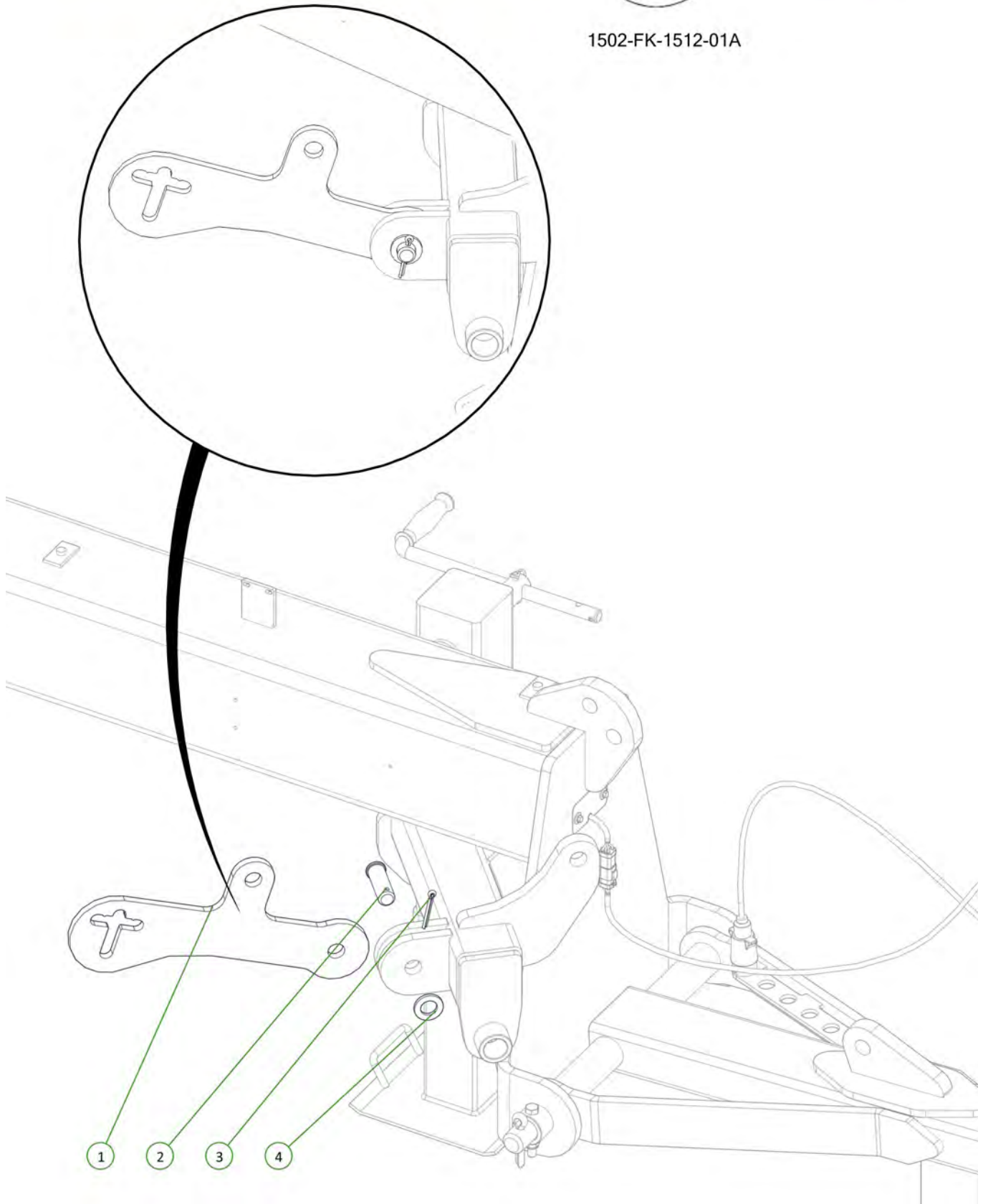
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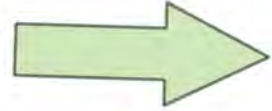
| Item No. | Description               | Number        | Qty |
|----------|---------------------------|---------------|-----|
| 1        | Chain Height Adjustor Arm | 1500-532      | 1   |
| 2        | Clevis Pin 25mm x 75mm    | 0801-KE0307-1 | 1   |
| 3        | Cotter Pin M6 x 50mm      | 0261-PINC650  | 1   |
| 4        | Washer Flat M24           | 0231-F24      | 1   |



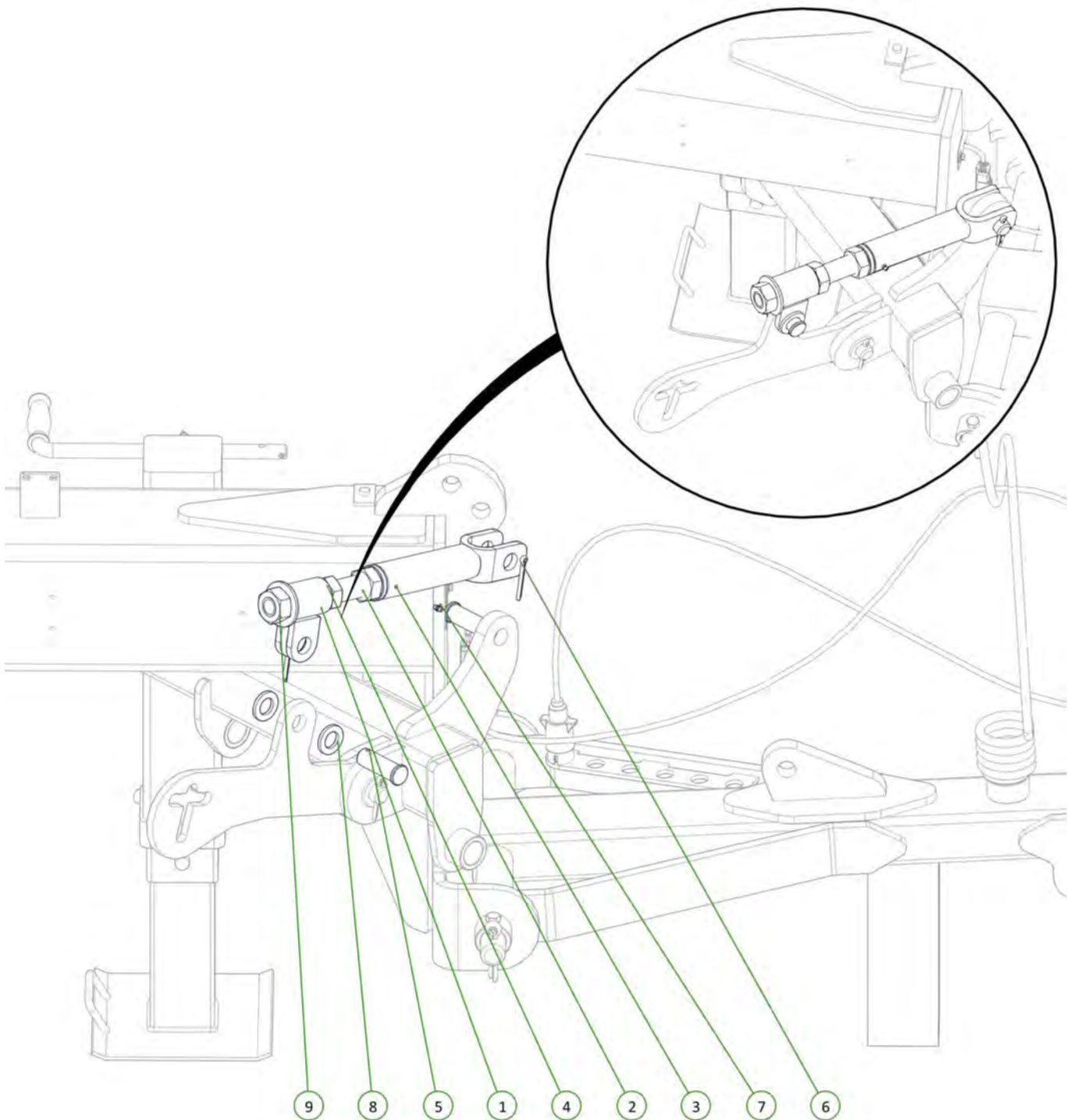
1502-FK-1512-01A



| Item No. | Description                    | Number        | Qty |
|----------|--------------------------------|---------------|-----|
| 1        | Adjuster Mount                 | 0810-161      | 1   |
| 2        | Height Adjuster Rod Bolt       | 0810-163      | 1   |
| 3        | Tension Adjuster Body          | 0810-164      | 1   |
| 4        | ACME Lock Nut 1 1/4 - 5NA - 2G | 0801-PCHTA-5N | 2   |
| 5        | Clevis Pin 25mm x 75mm         | 0801-KE0307-1 | 2   |
| 6        | Cotter Pin M6 x 50mm           | 0261-PINC650  | 2   |
| 7        | Grease Nipple 1/4" UNF         | 0181-GN1-4    | 1   |
| 8        | Washer Flat M24                | 0231-F24      | 2   |
| 9        | Washer High Tensile 1 1/4"     | 0232-HT11-4   | 1   |

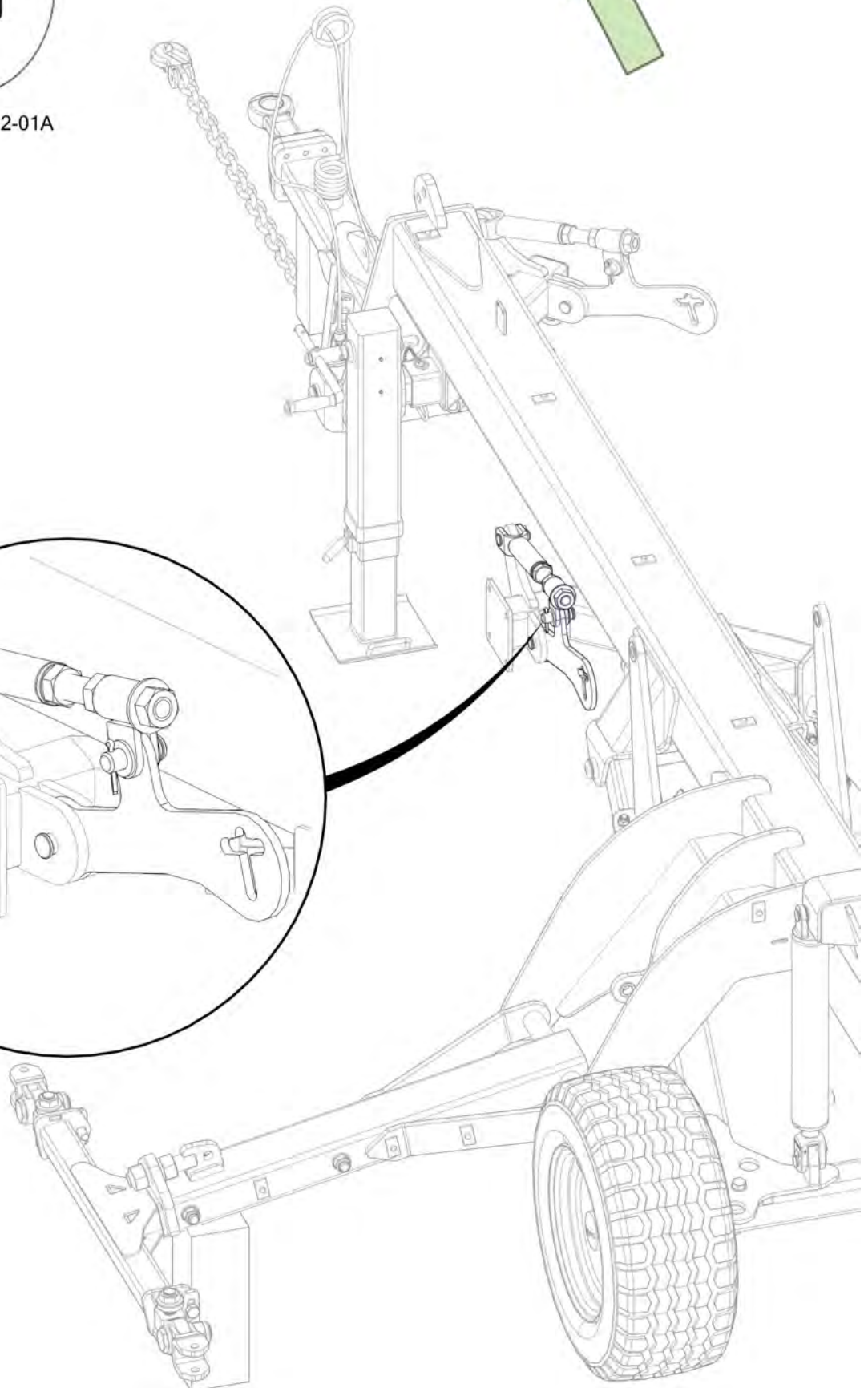
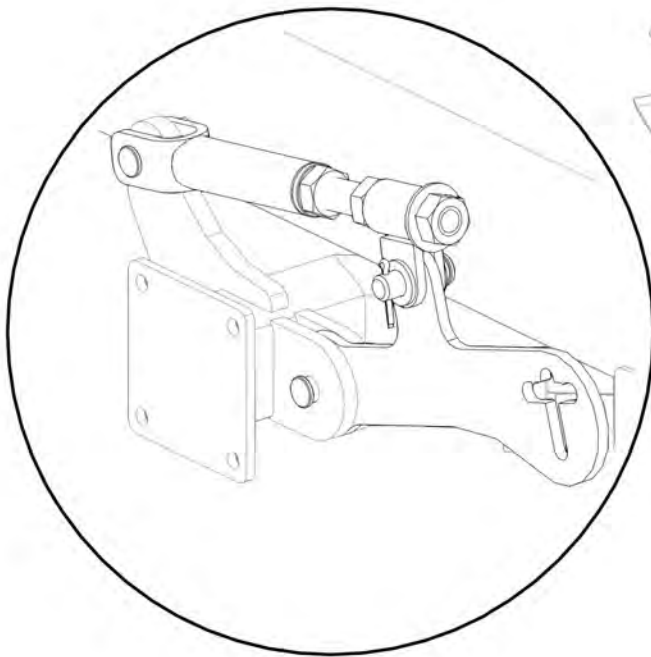


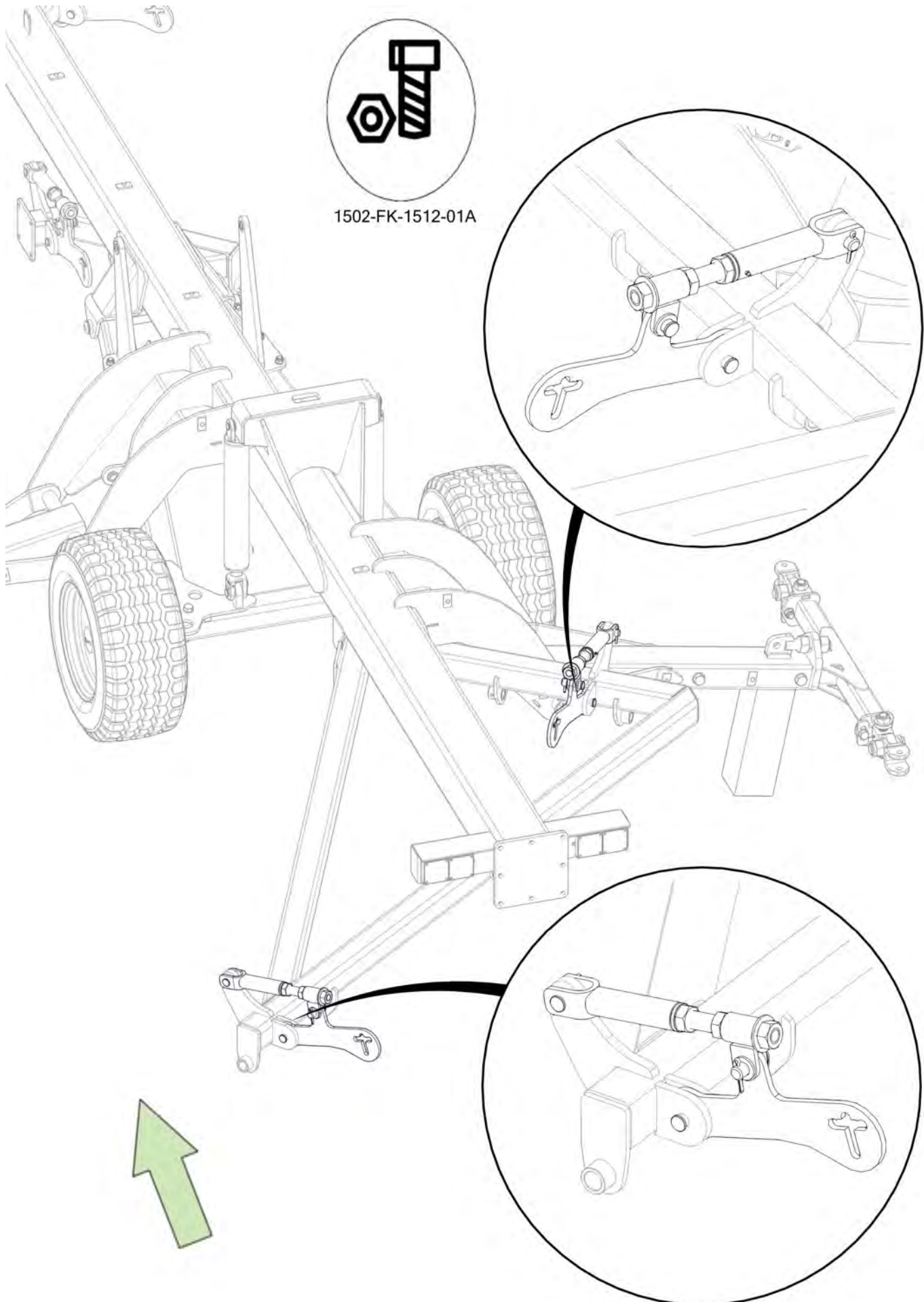
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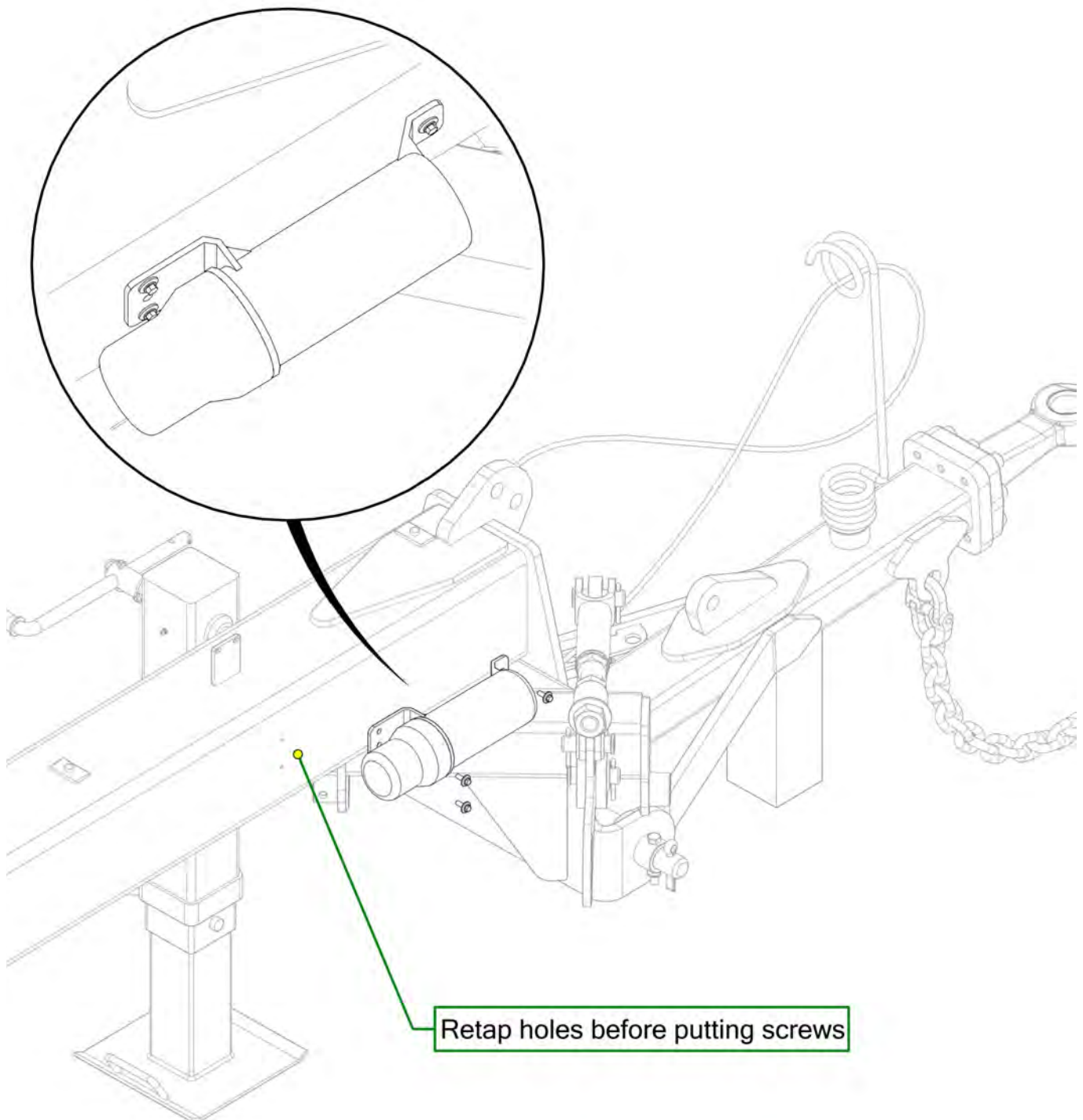




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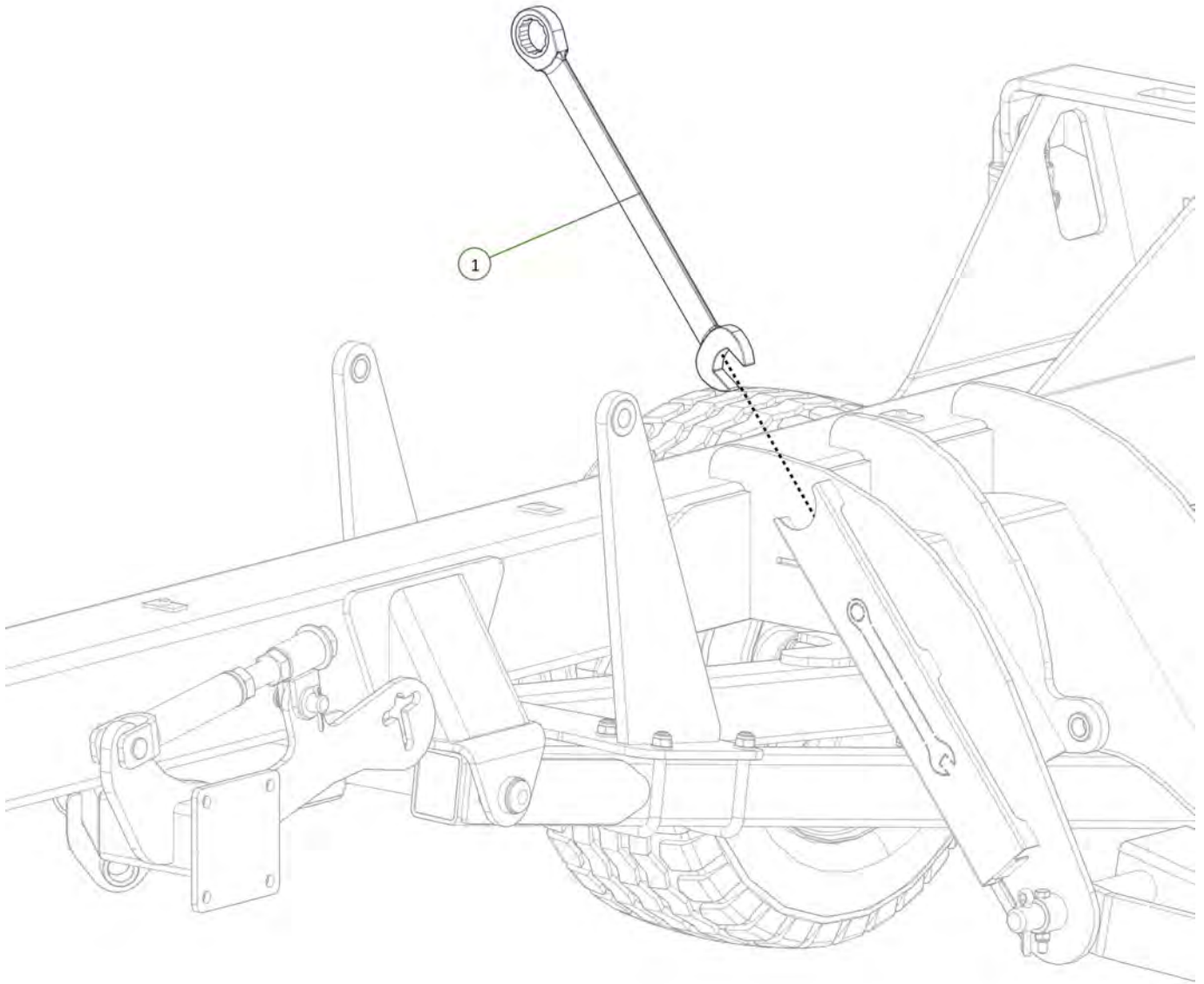


| Item No. | Description               | Number          | Qty |
|----------|---------------------------|-----------------|-----|
| 1        | Operator Manual Cannister | 0801-OMC-1      | 1   |
| 2        | M6 x 20mm Trilobe Screw   | 0211-M620MZPHTF | 3   |



1502-FK-1512-01A





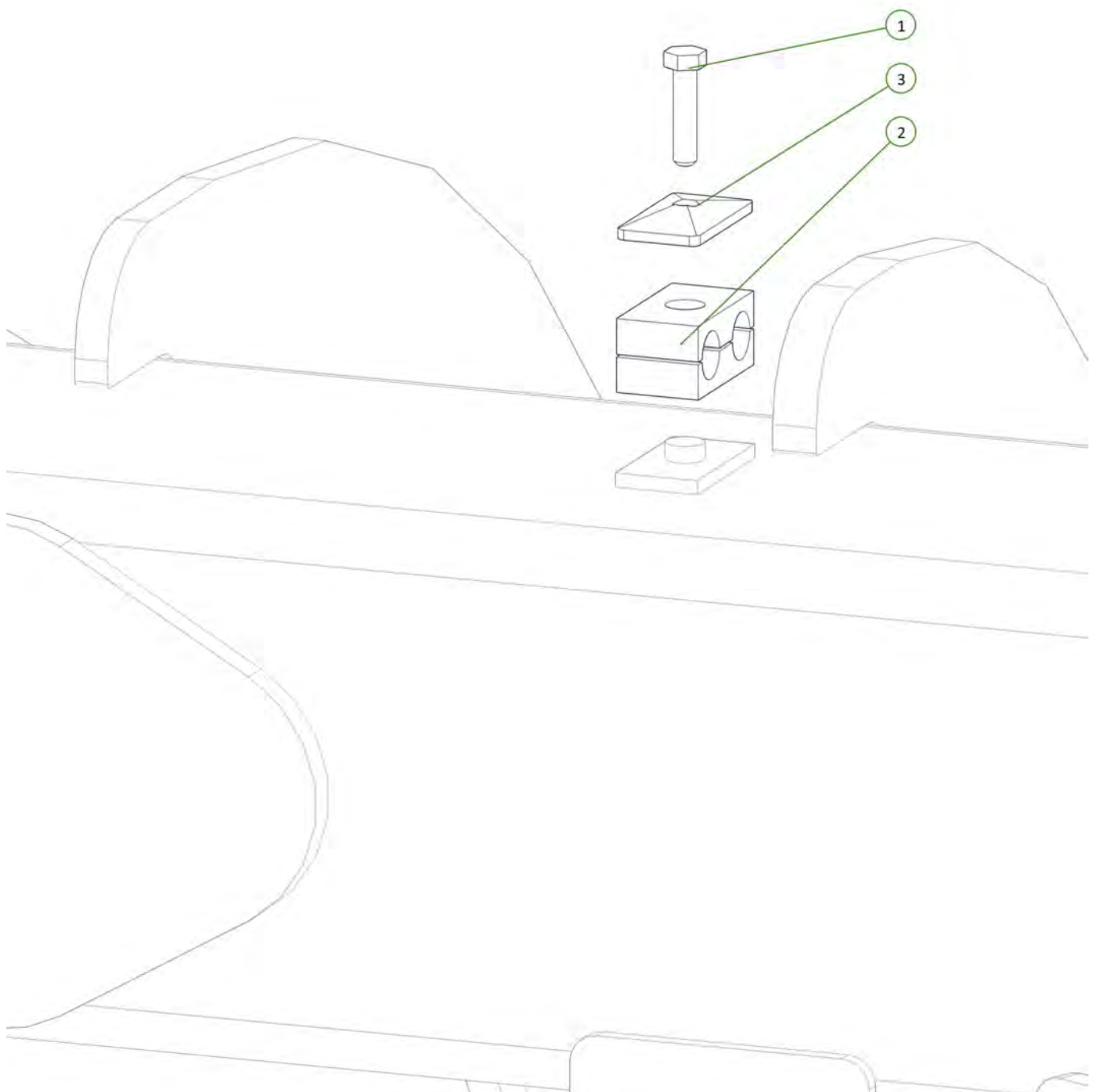
| Item No. | Description                   | Number       | Qty |
|----------|-------------------------------|--------------|-----|
| 1        | Ratcheting Gear Wrench 1 3/4" | 0802-GW1 3-4 | 1   |



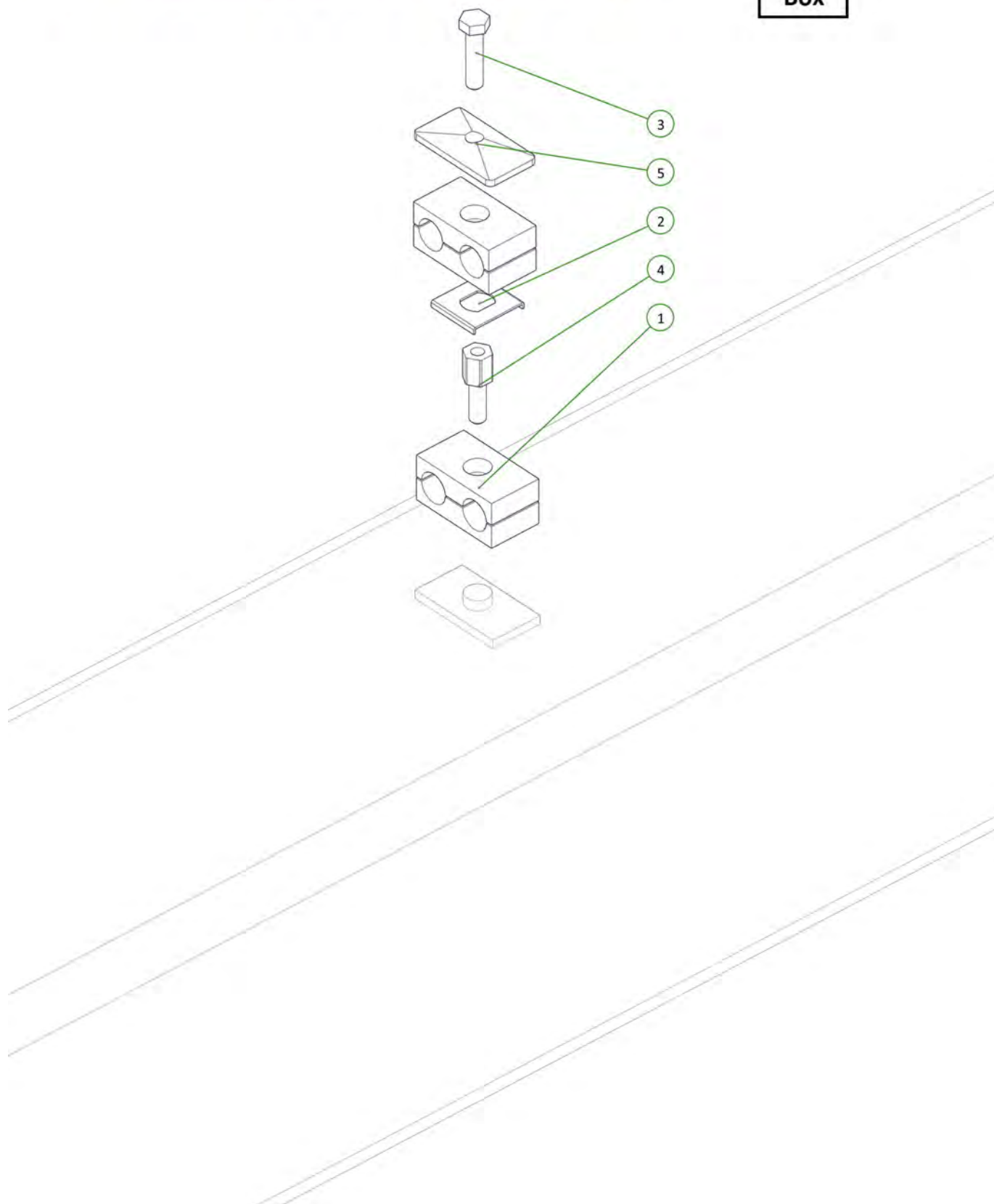
1502-FK-1512-01A



| Item No. | Description                     | Number       | Qty |
|----------|---------------------------------|--------------|-----|
| 1        | RCD Double Clamp Bolt No 2      | 0325-RCD-2BH | 1   |
| 2        | RCD Double Clamp Jaws 17mm      | 0325-RCD-17J | 1   |
| 3        | RCD Double Clamp Top Plate No 2 | 0325-RCD-2PT | 1   |



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



| Item No. | Description               | Number           | Qty |
|----------|---------------------------|------------------|-----|
| 1        | Ball Valve BSPP 1/2"      | 0341-RL20SH-0808 | 2   |
| 2        | M6 x 85 Class 8.8 ZP Bolt | 0211-685         | 2   |
| 3        | Nyloc Nut M6              | 0221-NYL6        | 2   |



1502-FK-1512-01A

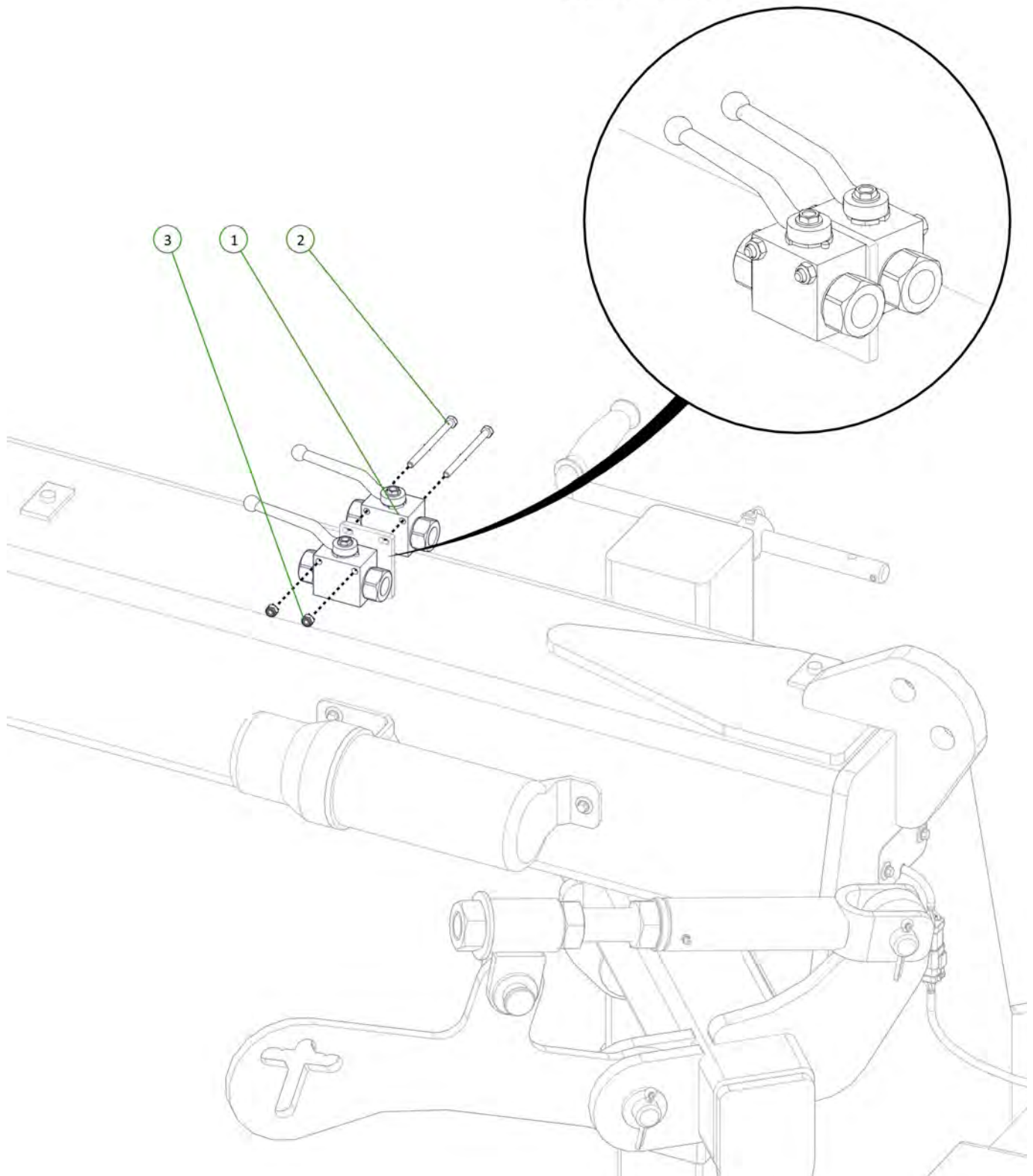
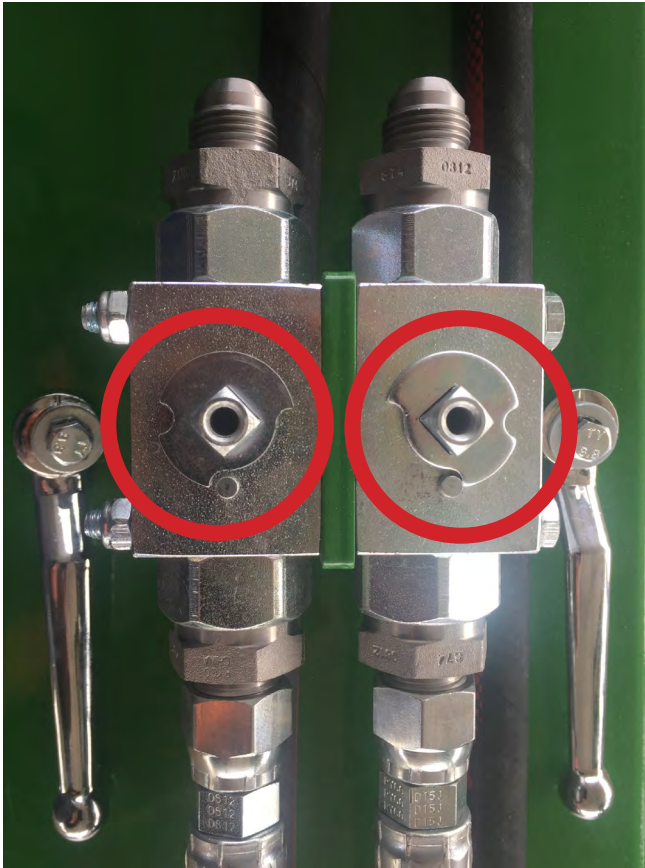


Image 1



## Instructions

1. Unbolt tap handle from tap (as seen in image 1).
2. Flip one plate over so they are a mirror image (as seen in image 1).
3. Bolt tap handle back in original position (as seen in image 2)
4. Correct fitment will ensure taps are closed when both facing outwards on the machine (as seen in image 3).

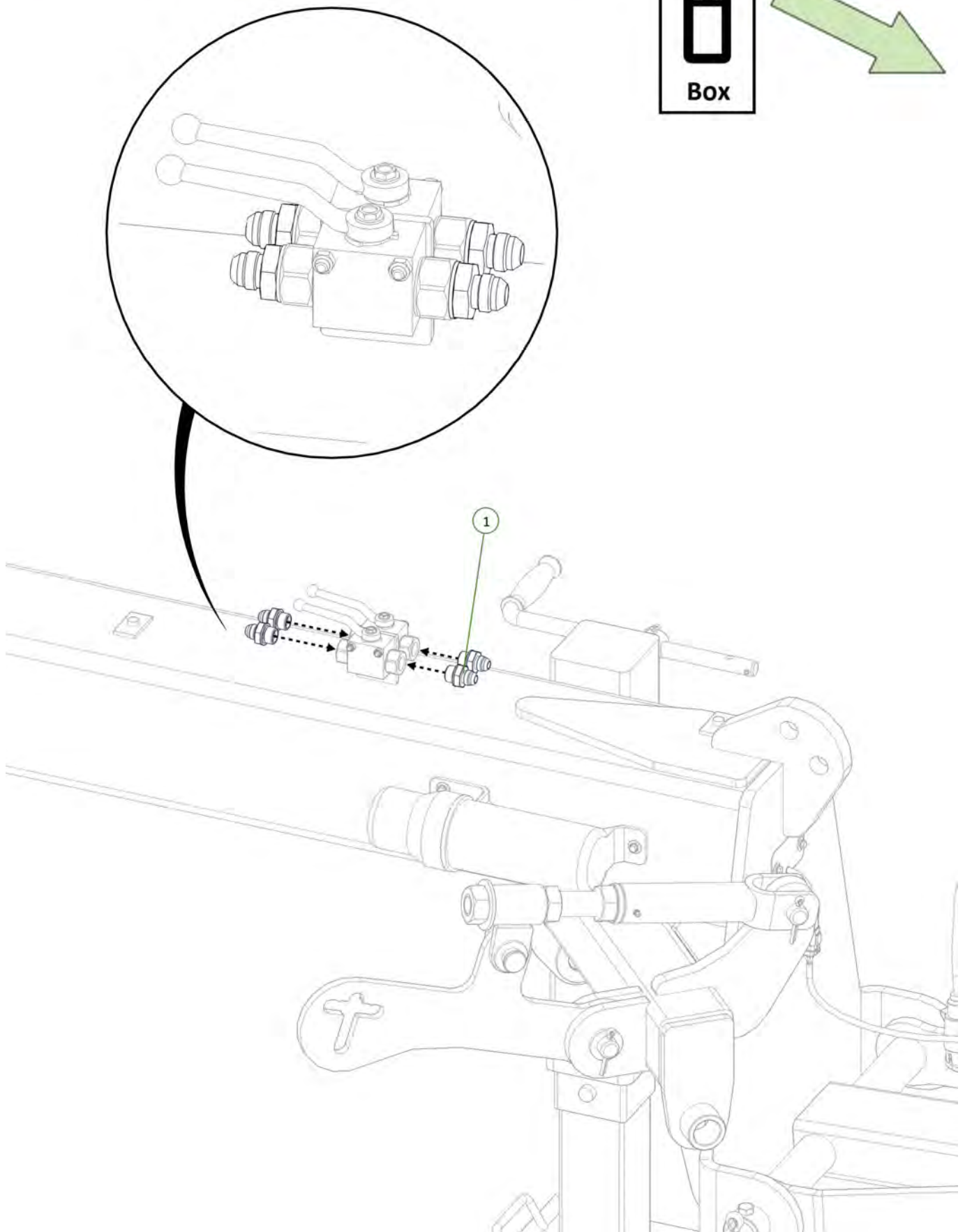
Image 2



Image 3

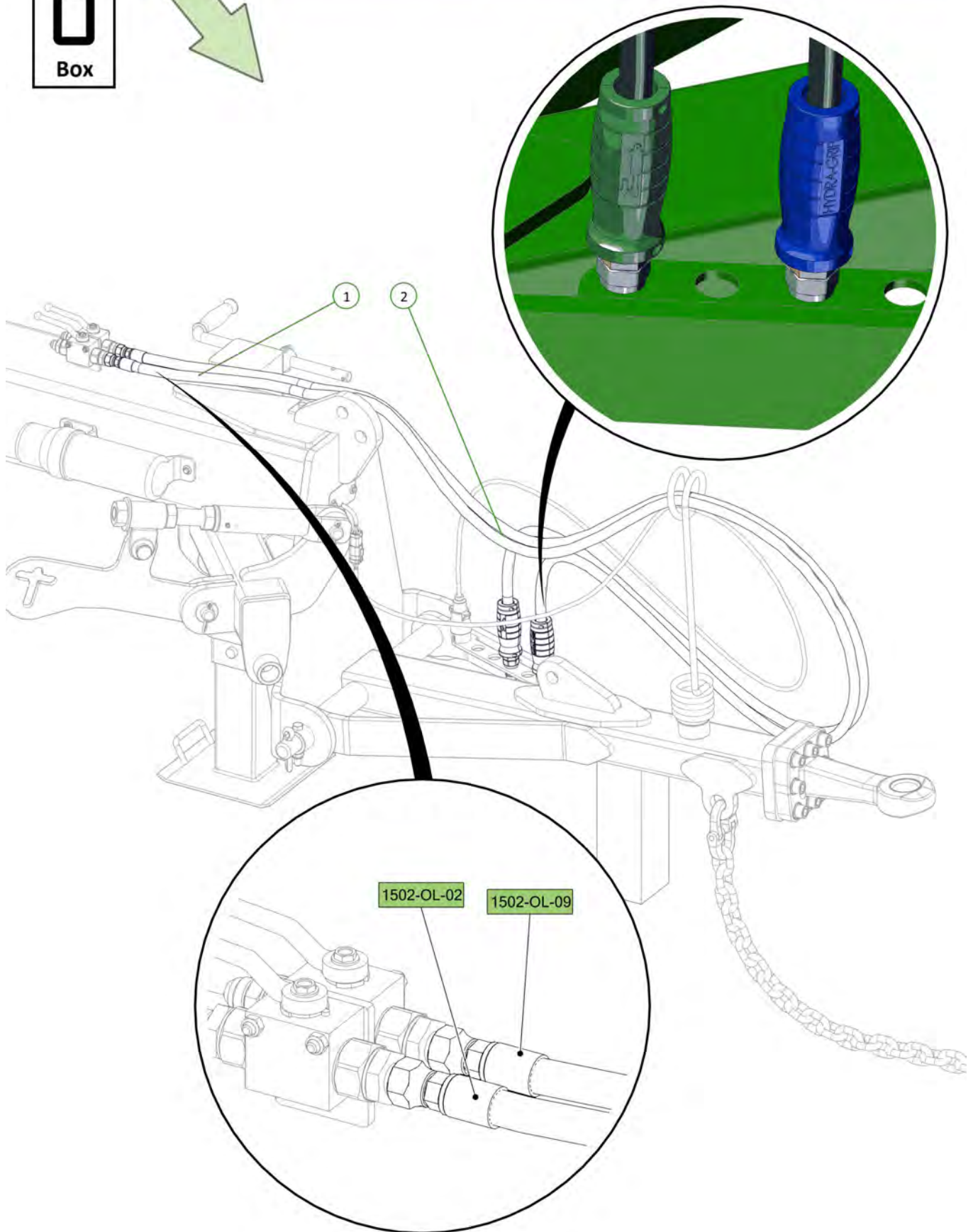


| Item No. | Description                                 | Number        | Qty |
|----------|---------------------------------------------|---------------|-----|
| 1        | 1/2" BSPP Encapt Male 3/4" JIC Male Adaptor | 0323-S74-0812 | 4   |



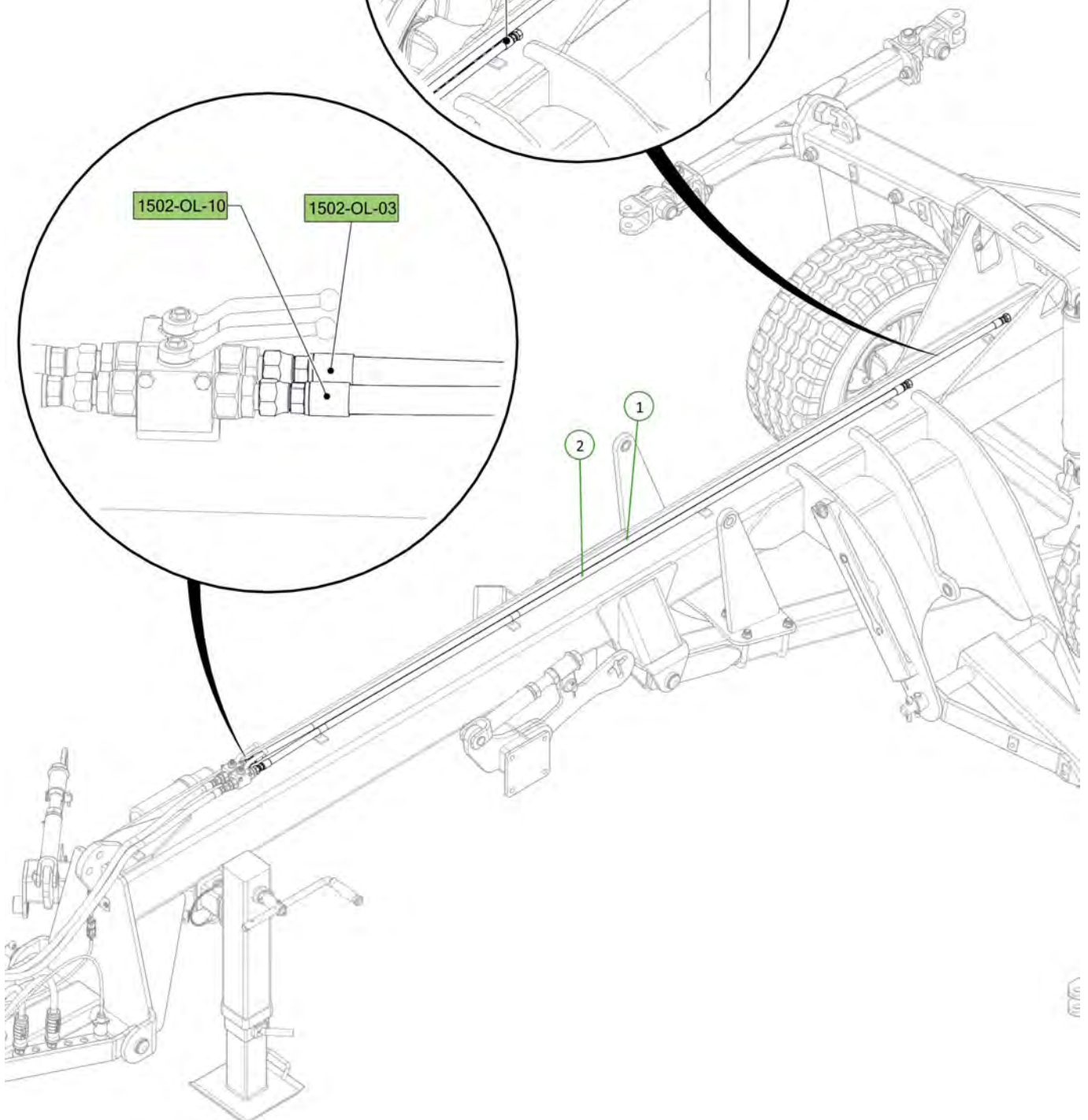
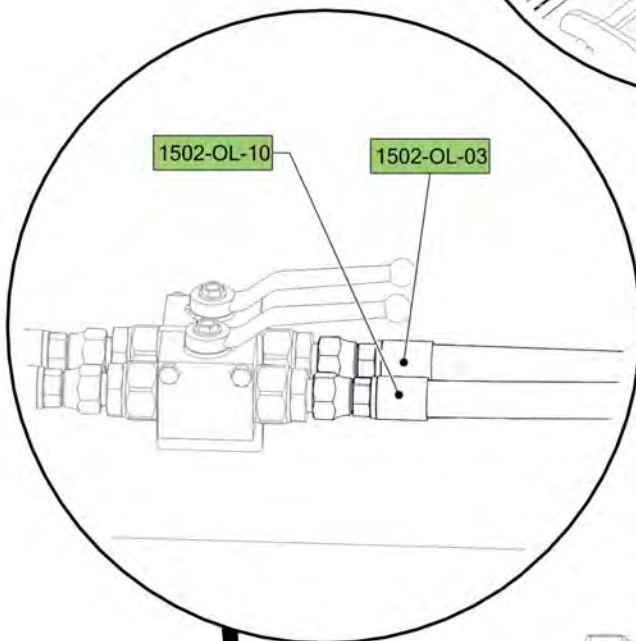
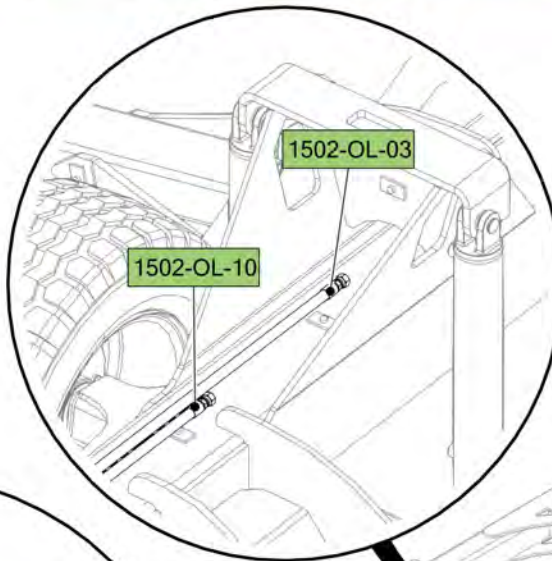


| Item No. | Description                                               | Number     | Qty |
|----------|-----------------------------------------------------------|------------|-----|
| 1        | Tractor to Wheel Lift Valve Fitted with Green Extend Grip | 1502-OL-02 | 1   |
| 2        | Tractor to Wing Fold Valve Fitted with Blue Retract Grip  | 1502-OL-09 | 1   |



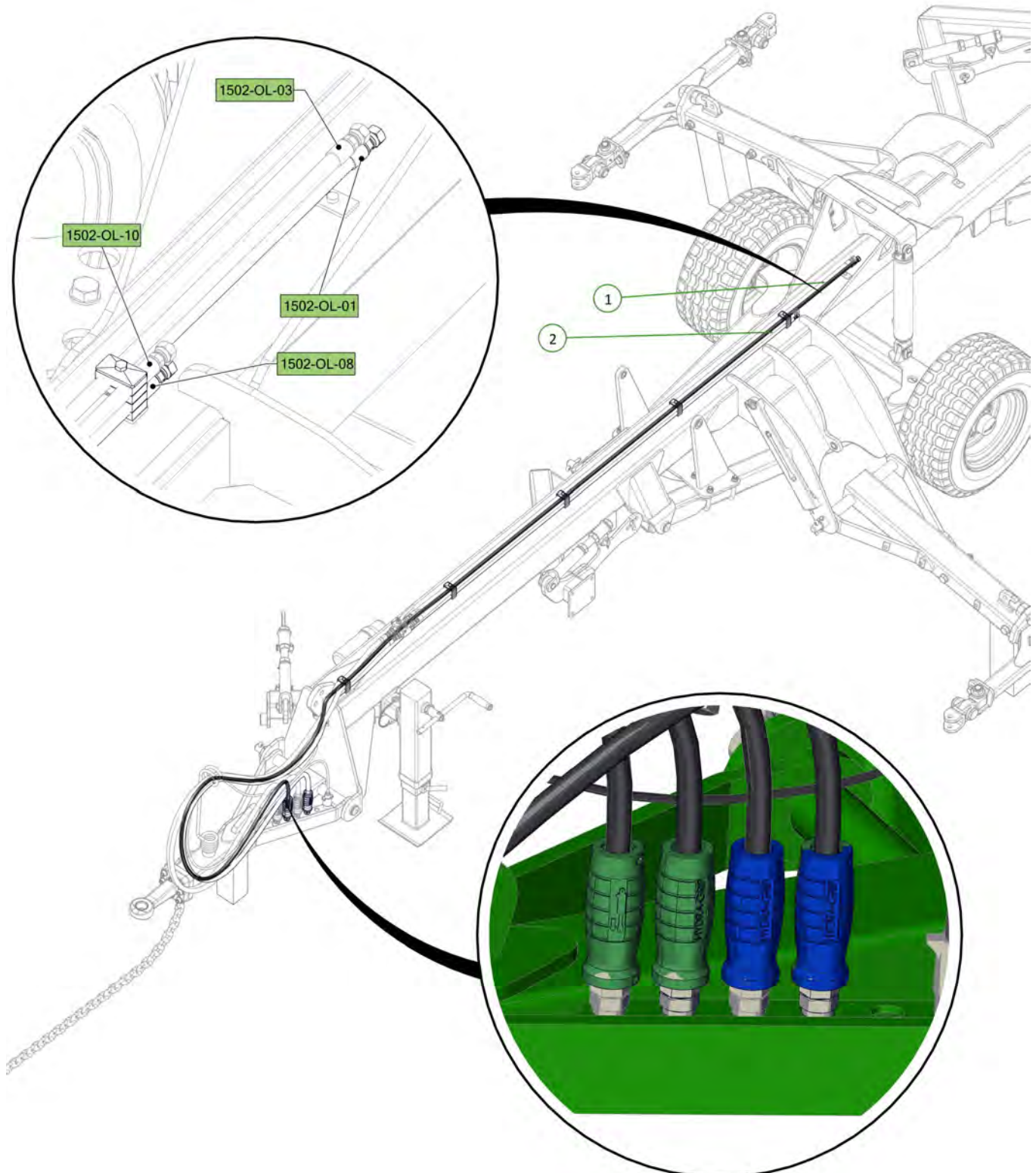


| Item No. | Description                               | Number     | Qty |
|----------|-------------------------------------------|------------|-----|
| 1        | Wheel Lift Valve to Wheel Lift Extend Tee | 1502-OL-03 | 1   |
| 2        | Wing Fold Valve to Wing Fold Tee          | 1502-OL-10 | 1   |



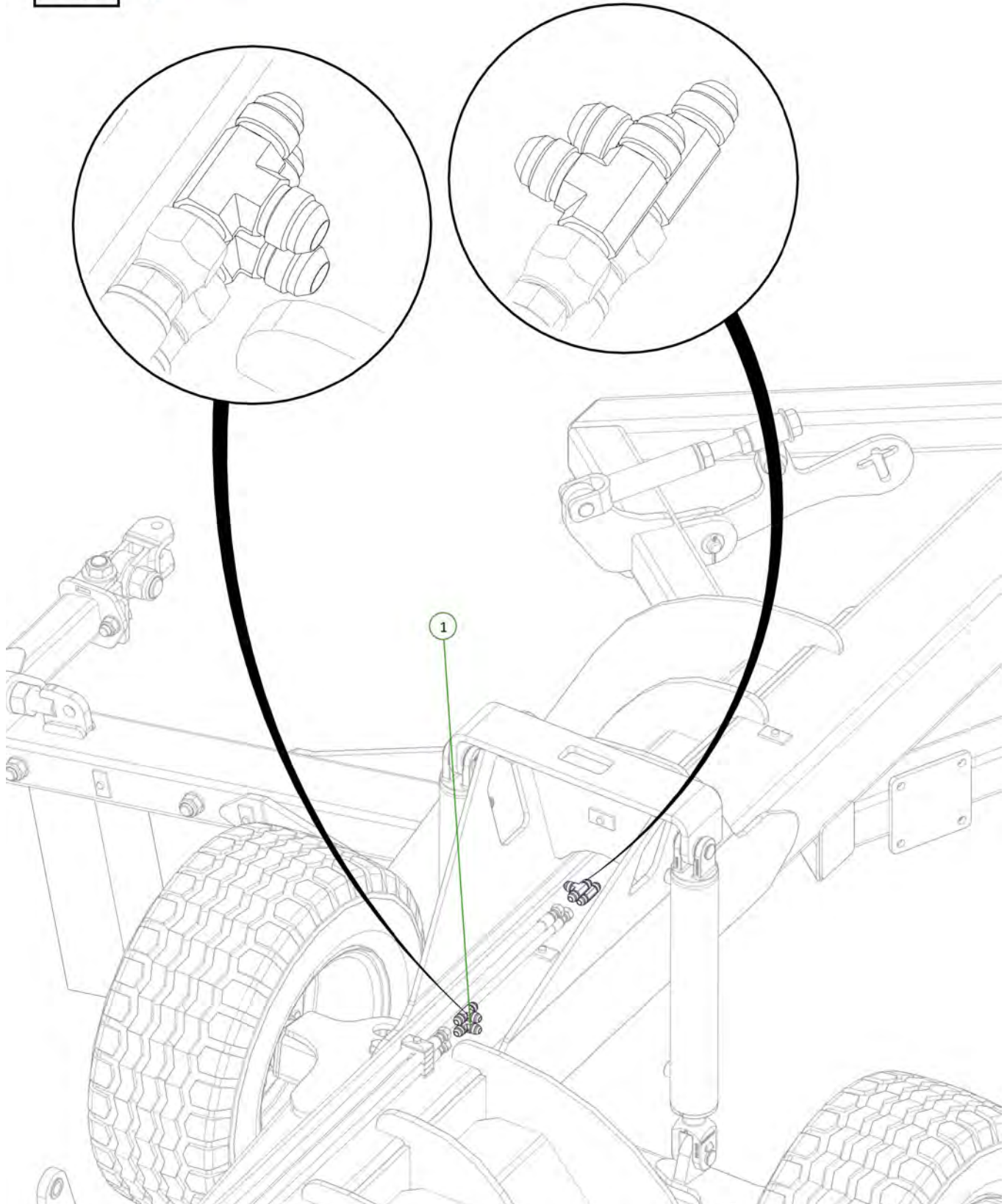


| Item No. | Description                                                      | Number     | Qty |
|----------|------------------------------------------------------------------|------------|-----|
| 1        | Tractor to Wheel Lift Retract Tee Fitted with Green Retract Grip | 1502-OL-01 | 1   |
| 2        | Tractor to Wing Unfold Tee Fitted with Blue Extend Grip          | 1502-OL-08 | 1   |



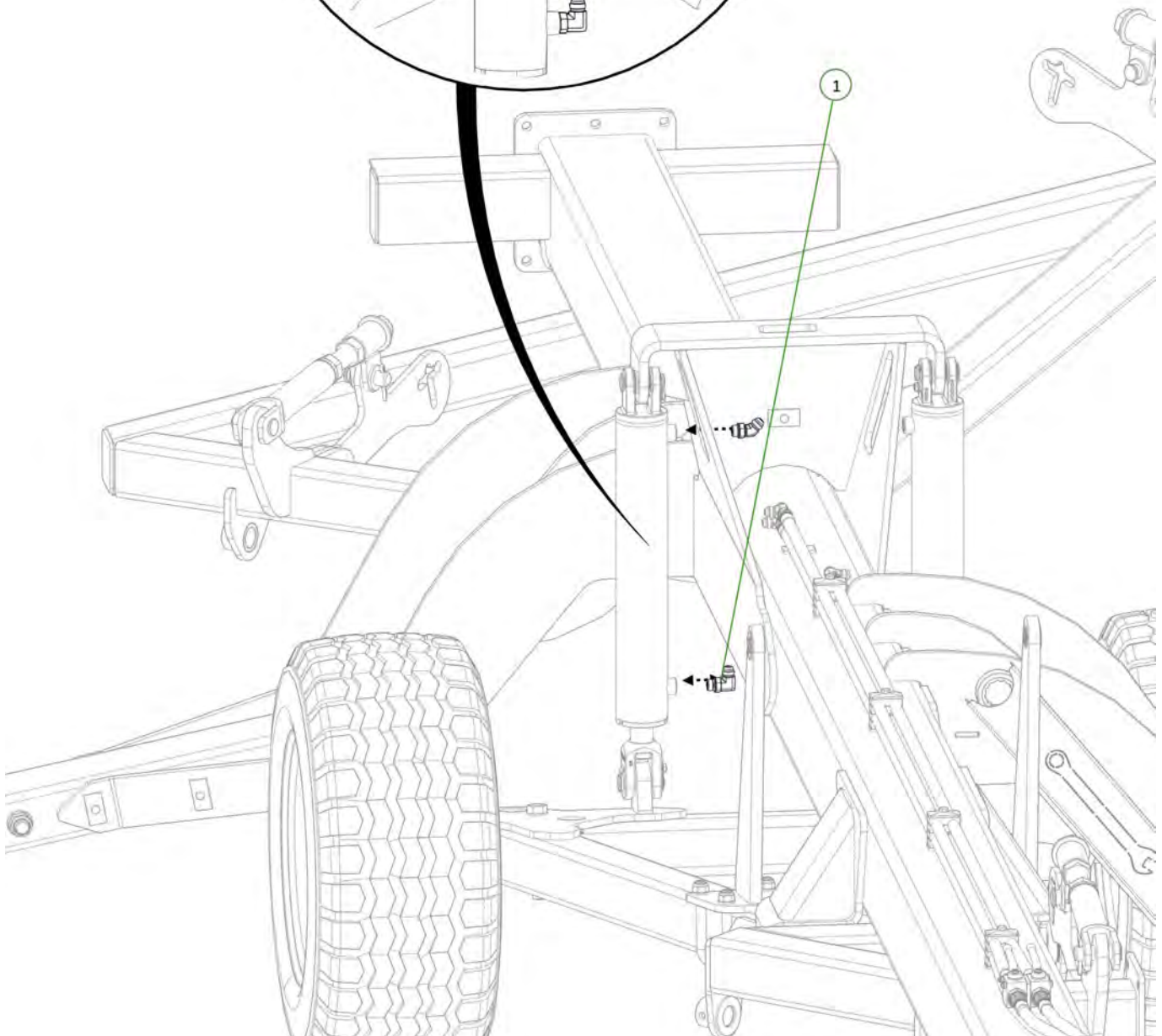
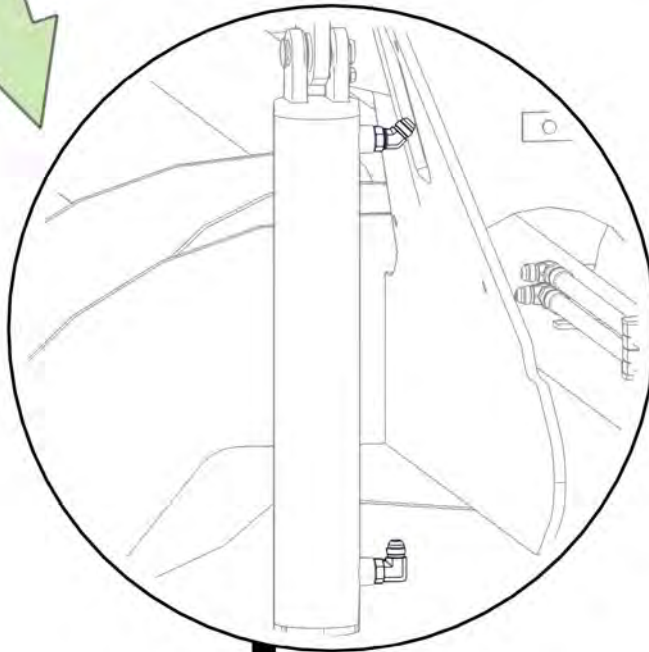


| Item No. | Description                                           | Number          | Qty |
|----------|-------------------------------------------------------|-----------------|-----|
| 1        | 3/4" JIC Male Tee 3/4" JIC Male Tee 3/4" JIC Male Tee | 0324-S19-121212 | 4   |



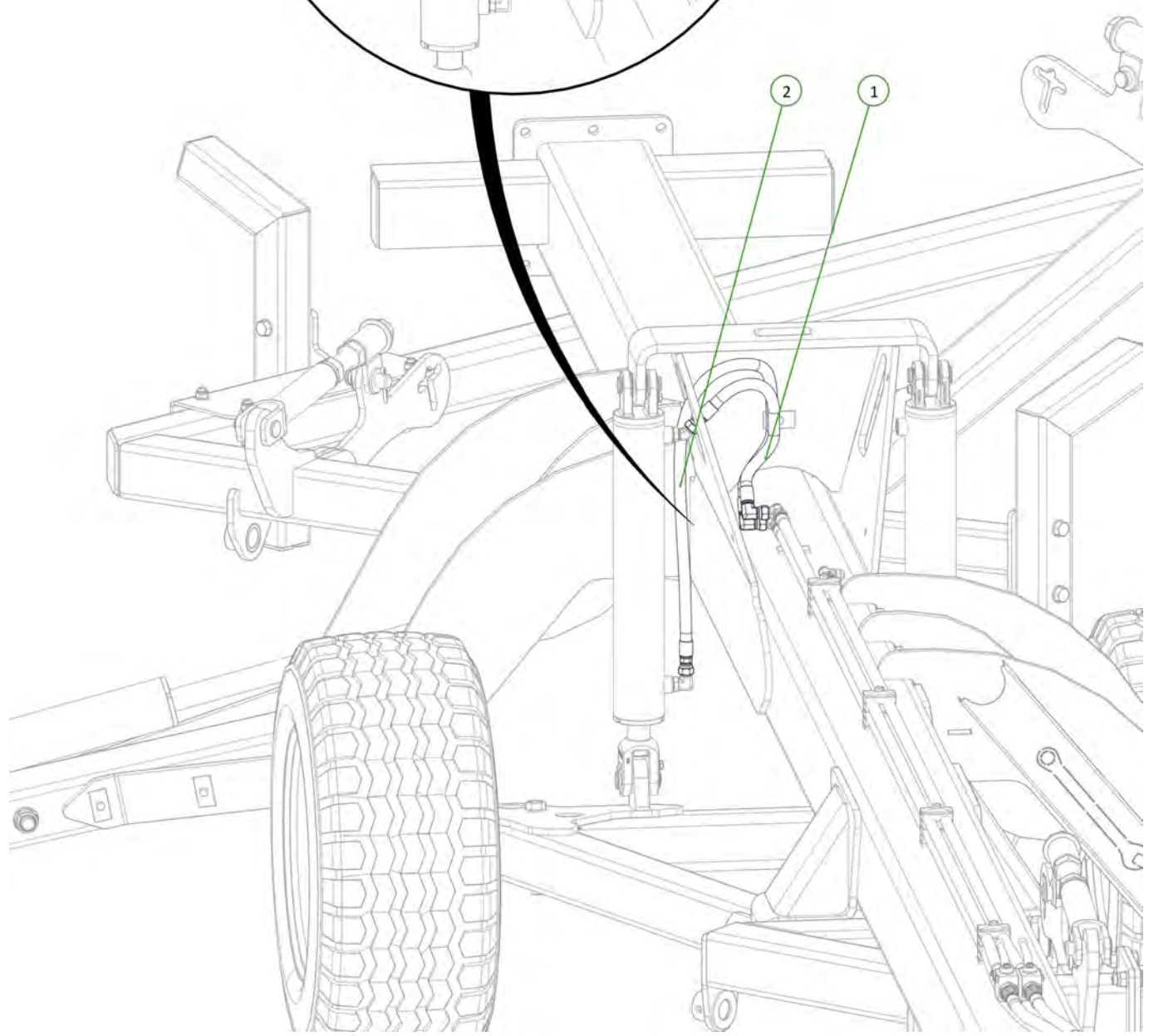
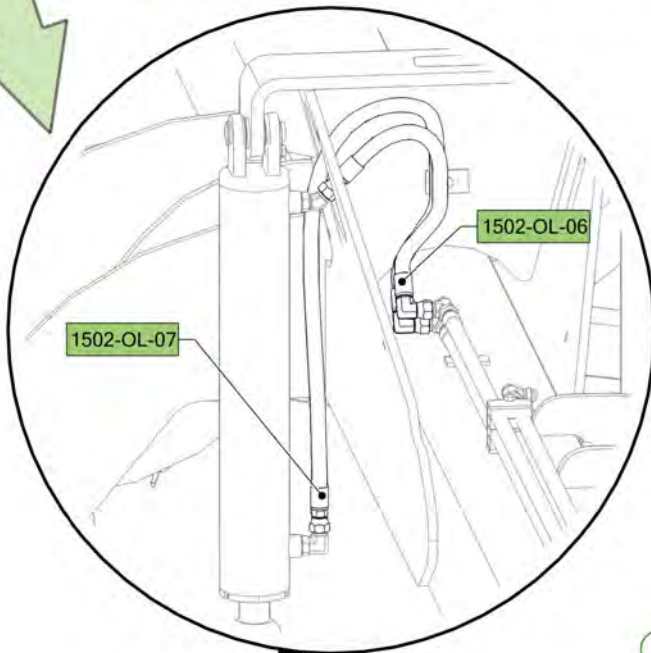


| Item No. | Description                                 | Number        | Qty |
|----------|---------------------------------------------|---------------|-----|
| 1        | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 1   |



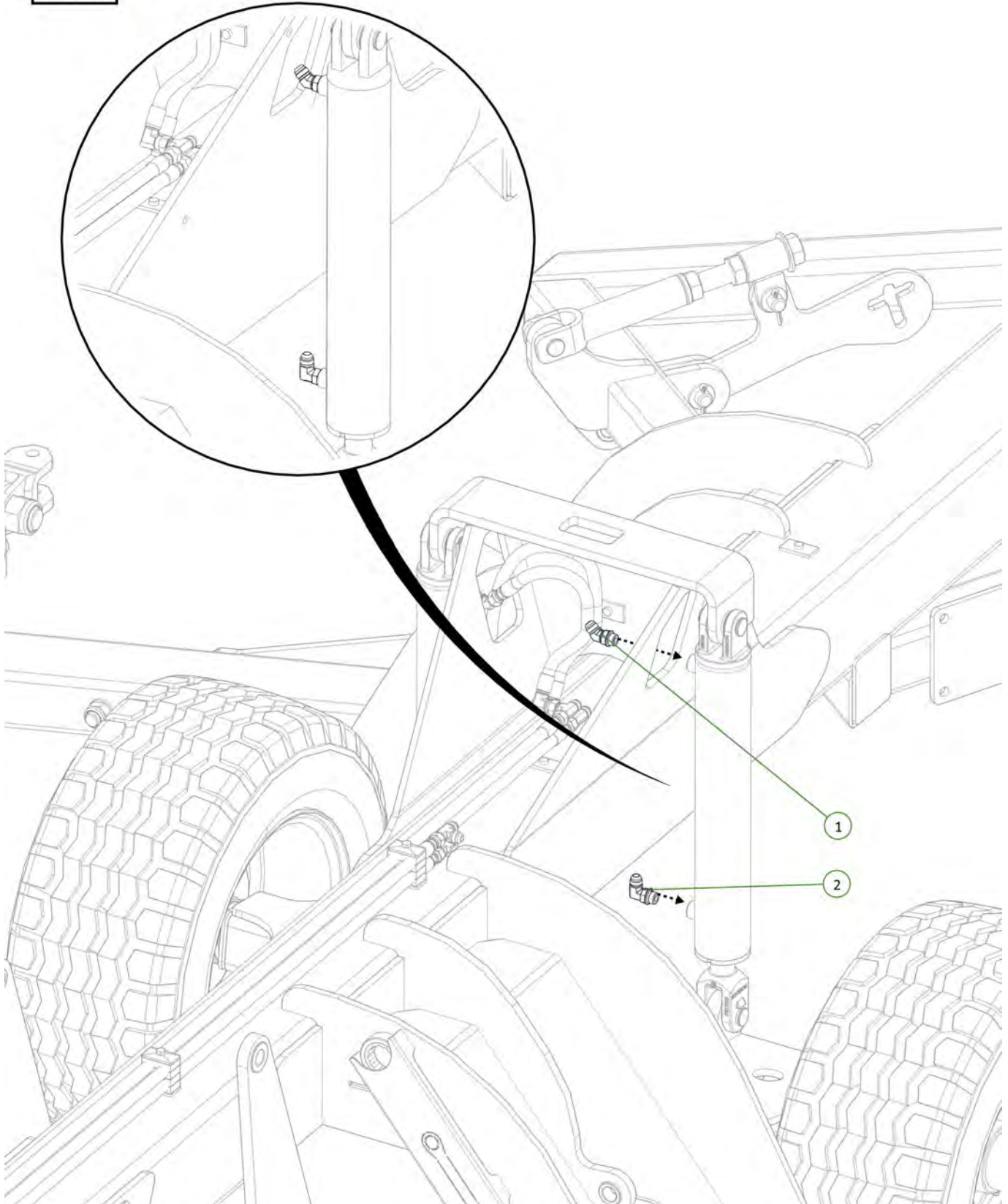


| Item No. | Description                                                     | Number     | Qty |
|----------|-----------------------------------------------------------------|------------|-----|
| 1        | Wheel Lift Extend Tee to Right Hand Lift Cylinder Extend Port   | 1502-OL-06 | 1   |
| 2        | Wheel Lift Retract Tee to Right Hand Lift Cylinder Retract Port | 1502-OL-07 | 1   |



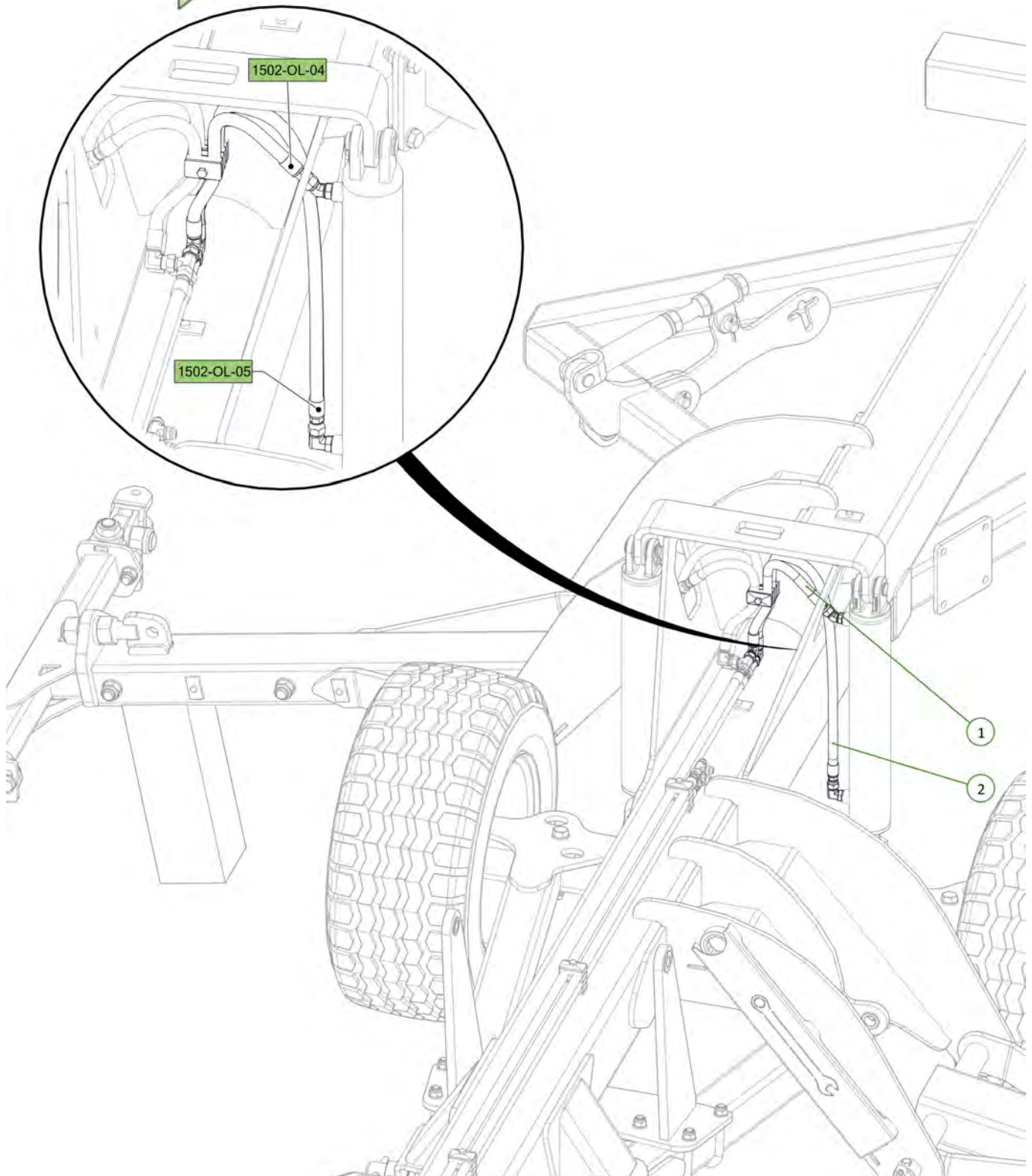


| Item No. | Description                                 | Number        | Qty |
|----------|---------------------------------------------|---------------|-----|
| 1        | 3/4" JIC Male 3/4" UN O Ring Male 45° Elbow | 0323-S88-1212 | 1   |
| 2        | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow |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

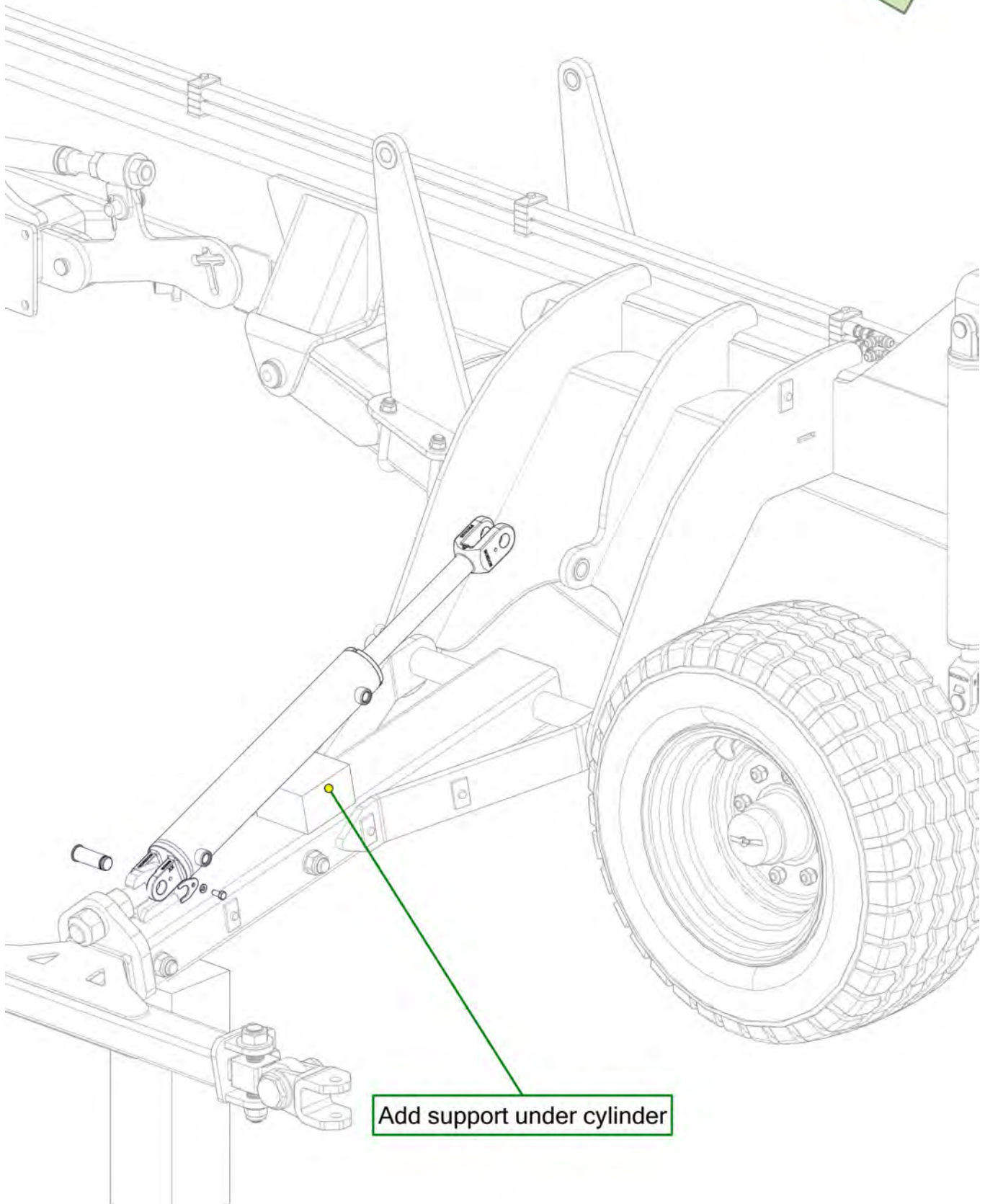




| Item No. | Description                                                    | Number     | Qty |
|----------|----------------------------------------------------------------|------------|-----|
| 1        | Wheel Lift Extend Tee to Left Hand Lift Cylinder Extend Port   | 1502-OL-04 | 1   |
| 2        | Wheel Lift Retract Tee to Left Hand Lift Cylinder Retract Port | 1502-OL-05 | 1   |

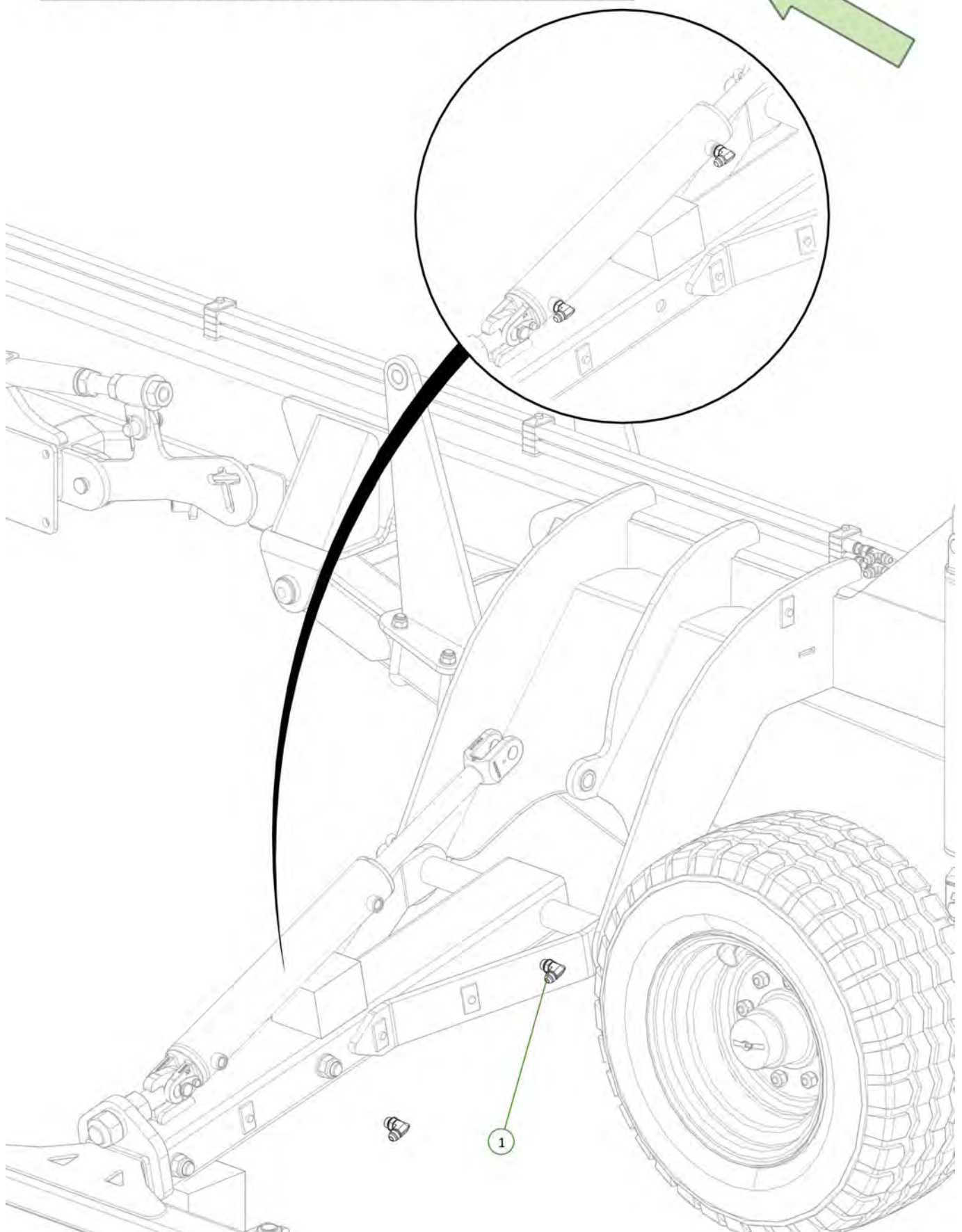


| Item No. | Description                                                | Number   | Qty |
|----------|------------------------------------------------------------|----------|-----|
| 1        | 3" Bore x 16" Stroke 1.5" Rod Side Port Hydraulic Cylinder | 0311-316 | 1   |

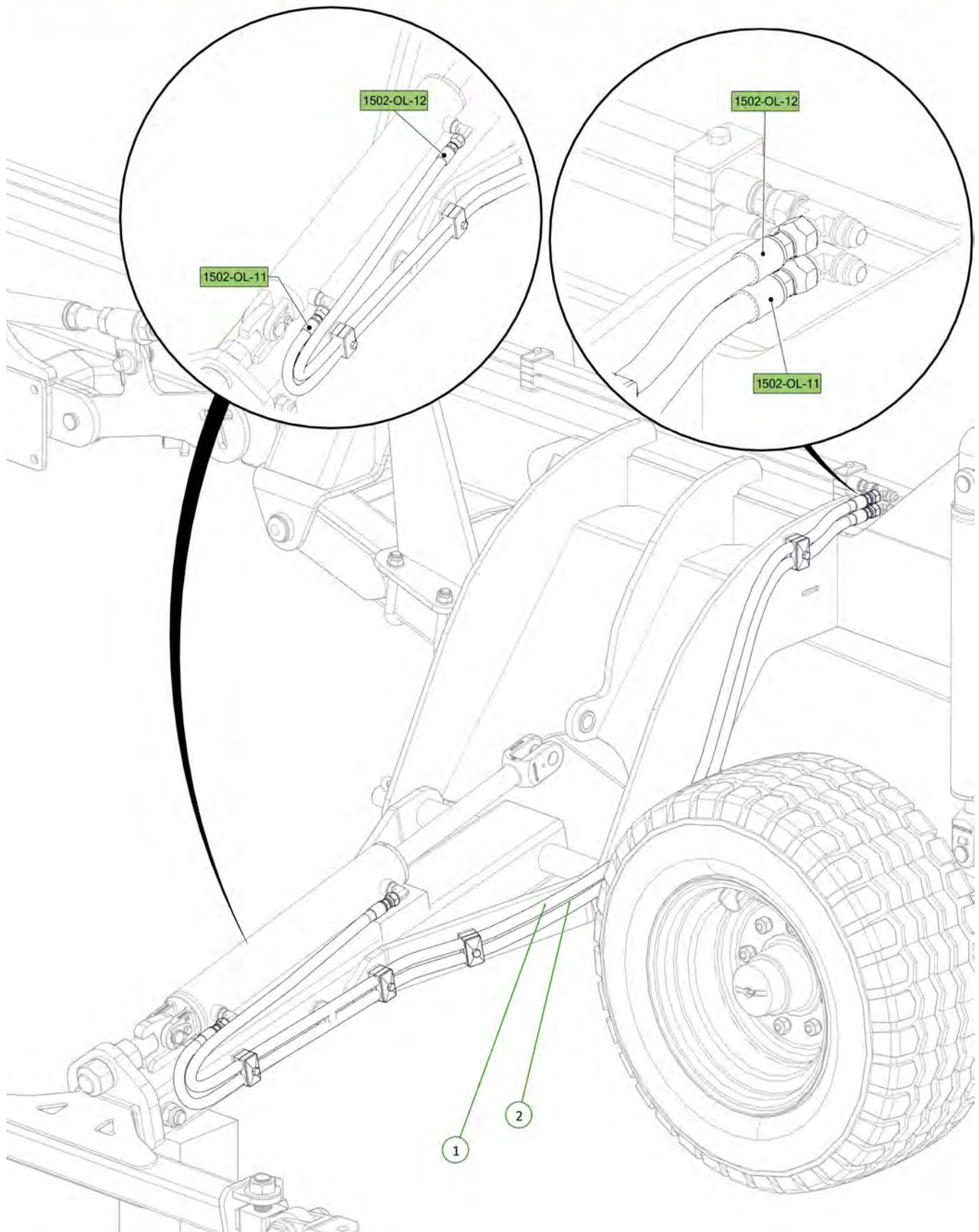
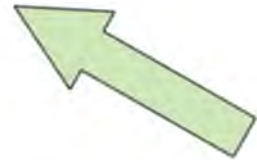


Add support under cylinder

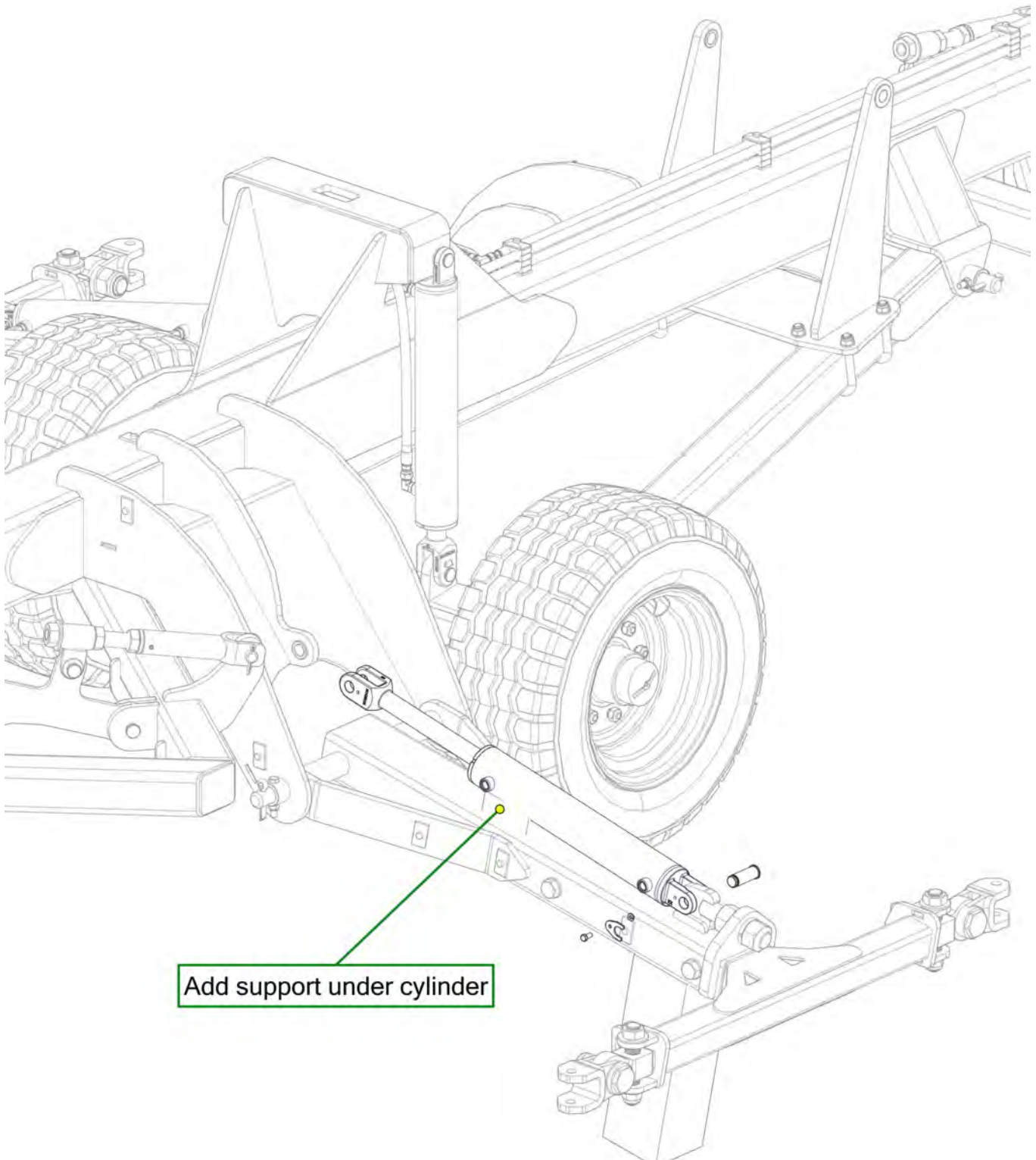
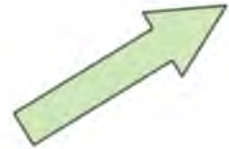
| Item No. | Description                                 | Number        | Qty |
|----------|---------------------------------------------|---------------|-----|
| 1        | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2   |



| Item No. | Description                                            | Number     | Qty |
|----------|--------------------------------------------------------|------------|-----|
| 1        | Wing Fold Tee to Left Hand Wing Cylinder Retract Port  | 1502-OL-12 | 1   |
| 2        | Wing Unfold Tee to Left Hand Wing Cylinder Extend Port | 1502-OL-11 | 1   |



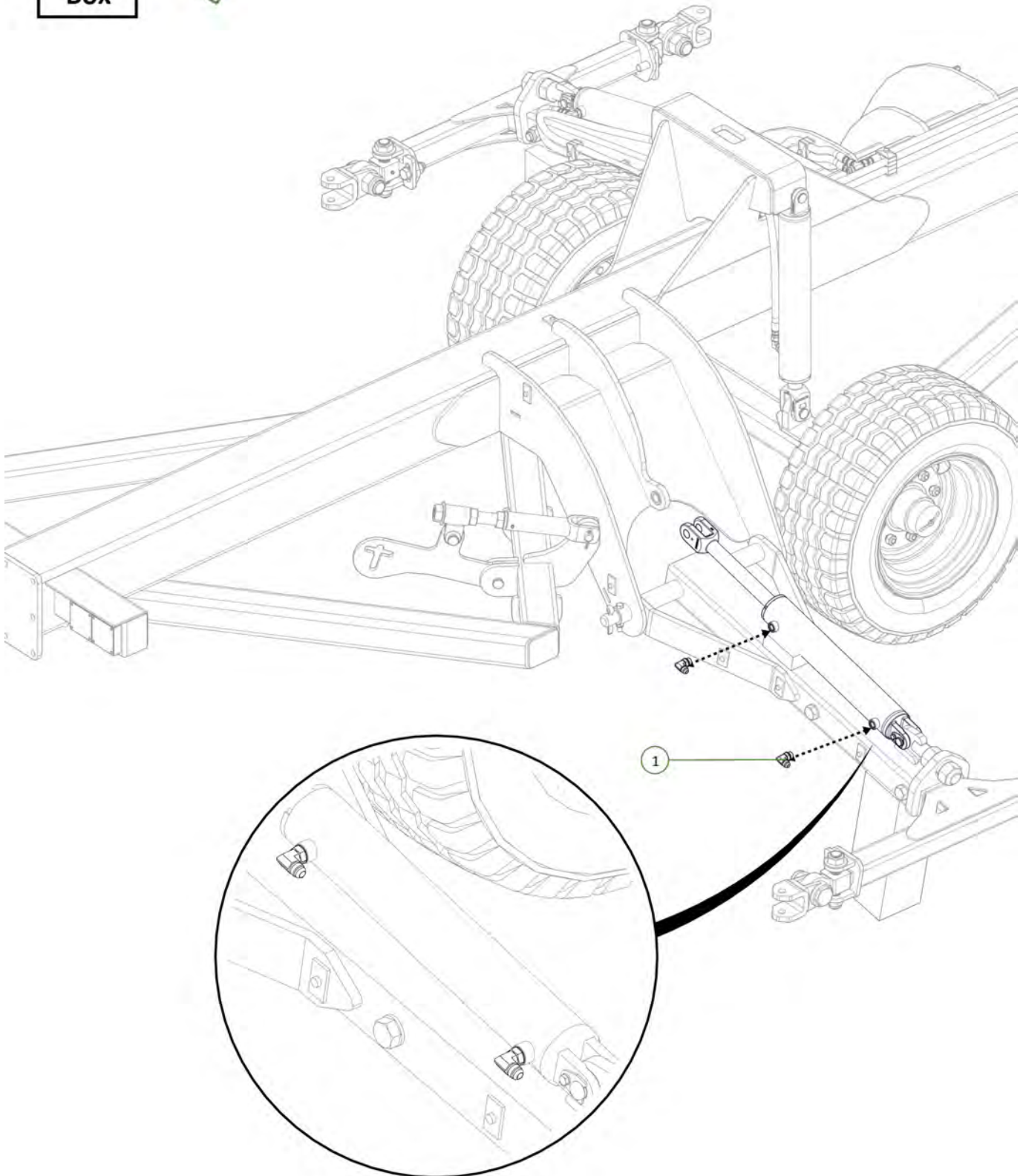
| Item No. | Description                                                | Number   | Qty |
|----------|------------------------------------------------------------|----------|-----|
| 1        | 3" Bore x 16" Stroke 1.5" Rod Side Port Hydraulic Cylinder | 0311-316 | 1   |



Add support under cylinder

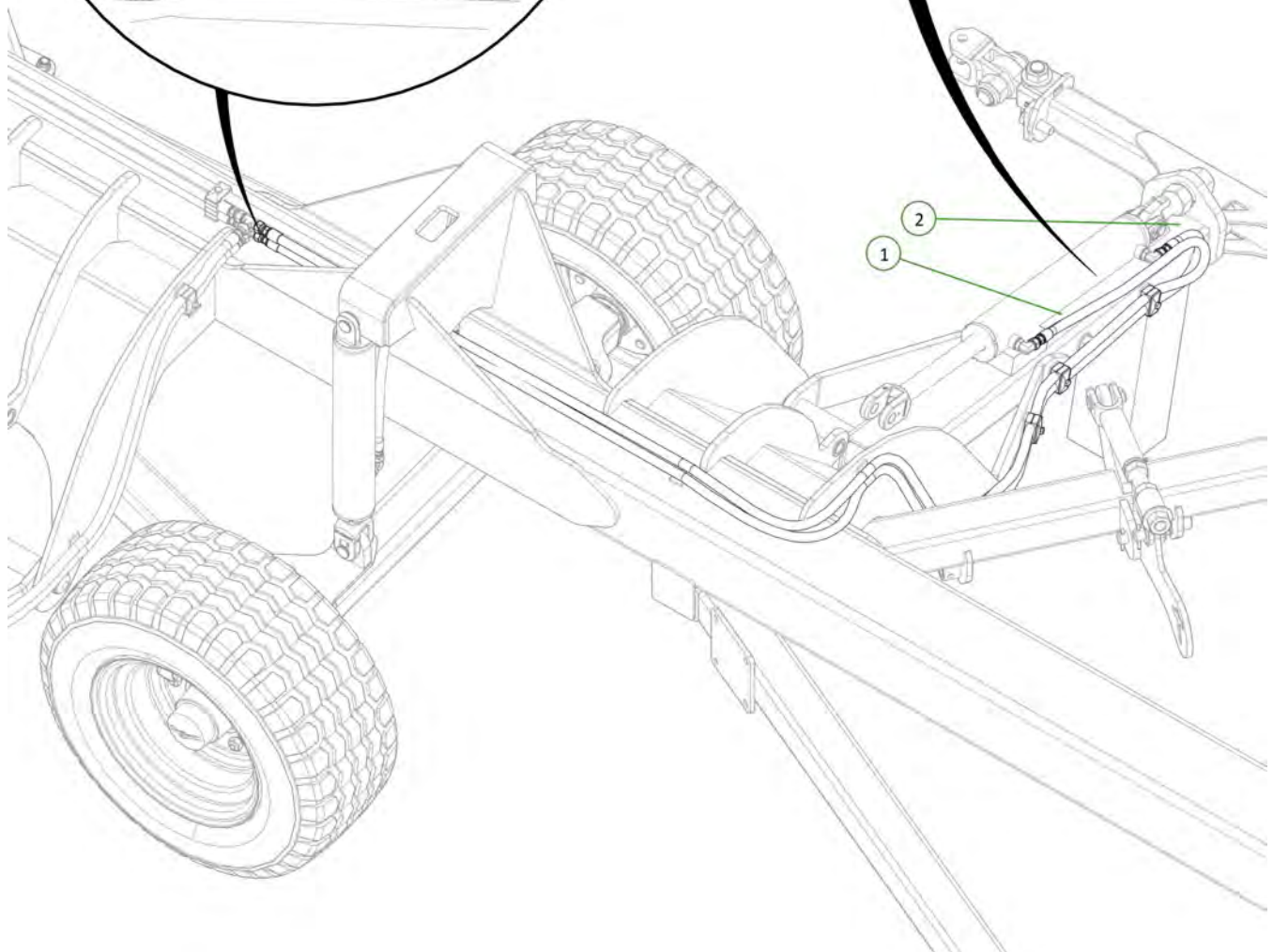
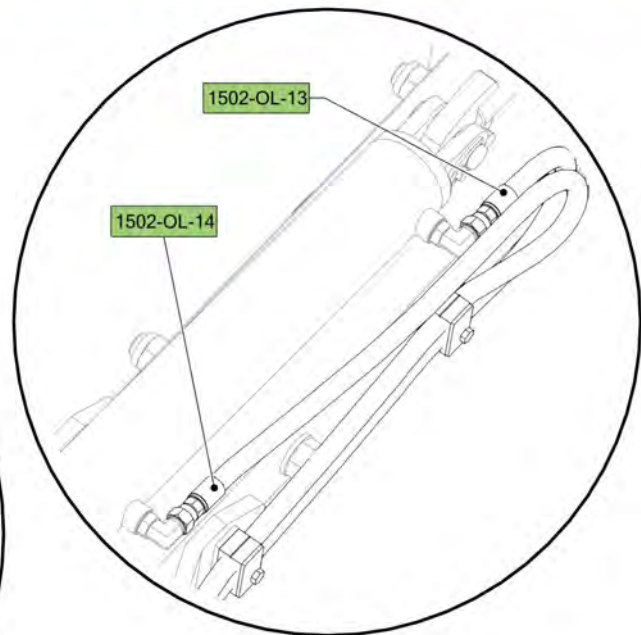
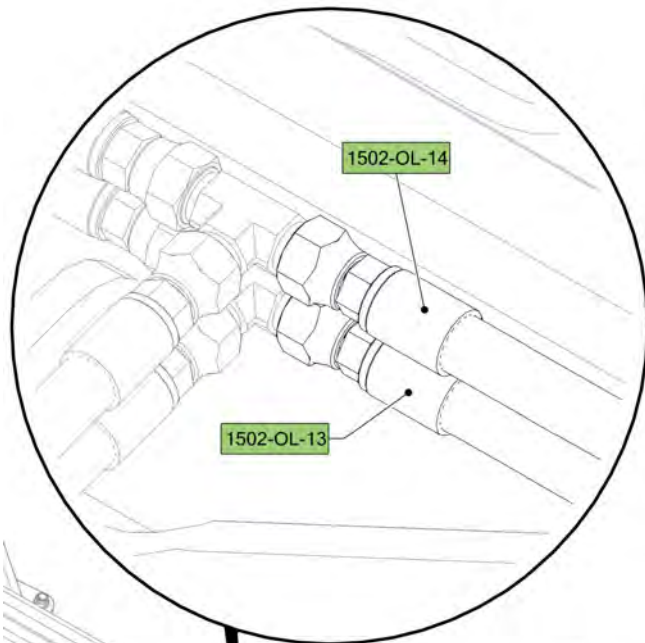


| Item No. | Description                                 | Number        | Qty |
|----------|---------------------------------------------|---------------|-----|
| 1        | 3/4" JIC Male 3/4" UN O Ring Male 90° Elbow | 0323-S91-1212 | 2   |





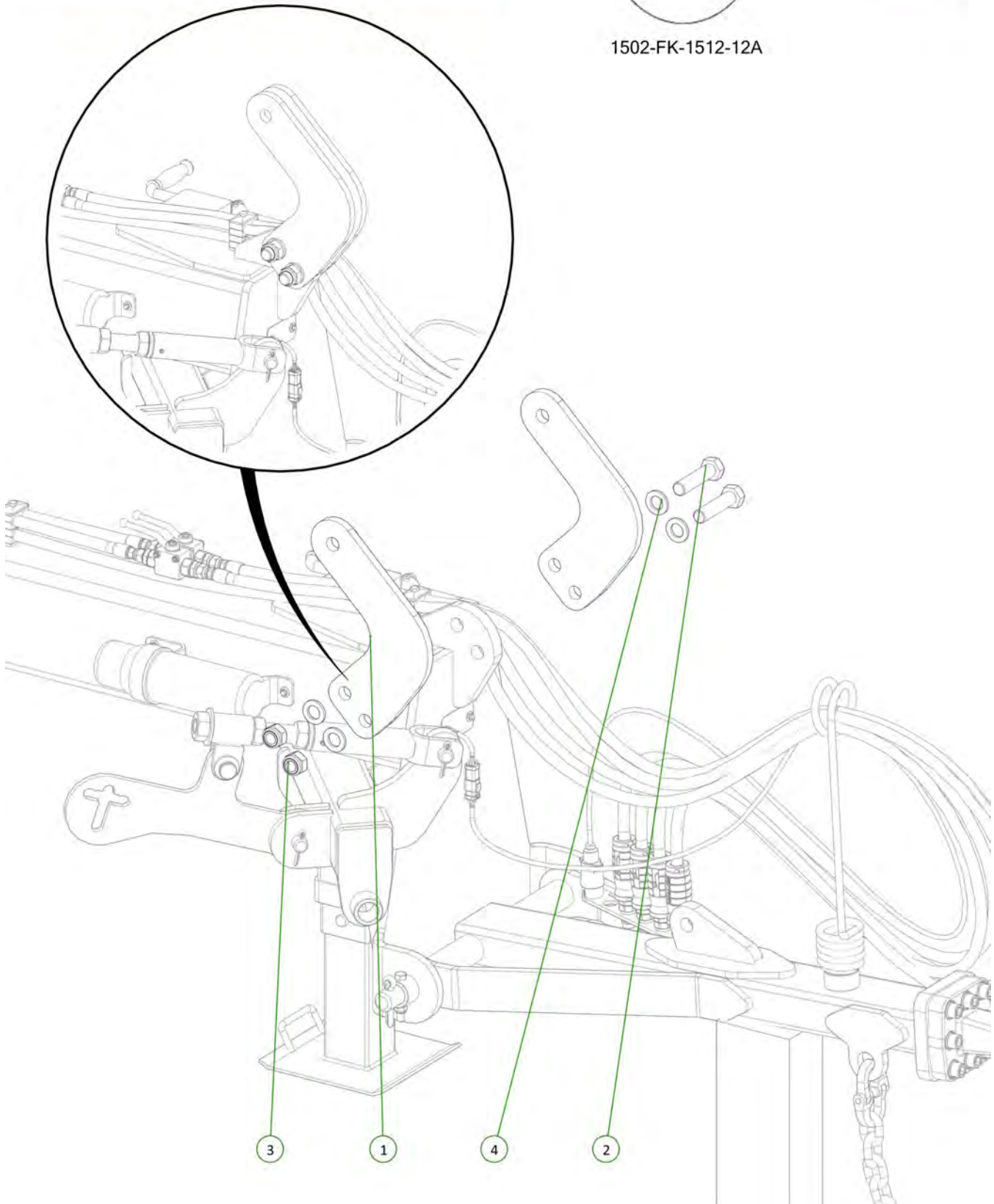
| Item No. | Description                                             | Number     | Qty |
|----------|---------------------------------------------------------|------------|-----|
| 1        | Wing Fold Tee to Right Hand Wing Cylinder Retract Port  | 1502-OL-14 | 1   |
| 2        | Wing Unfold Tee to Right Hand Wing Cylinder Extend Port | 1502-OL-13 | 1   |



| Item No. | Description                 | Number     | Qty |
|----------|-----------------------------|------------|-----|
| 1        | Front Lift Link Plate       | 1500-766   | 2   |
| 2        | M24 x 100 Class 8.8 ZP Bolt | 0211-24100 | 2   |
| 3        | Nyloc Nut M24               | 0221-NYL24 | 2   |
| 4        | Washer Flat M24             | 0231-F24   | 4   |



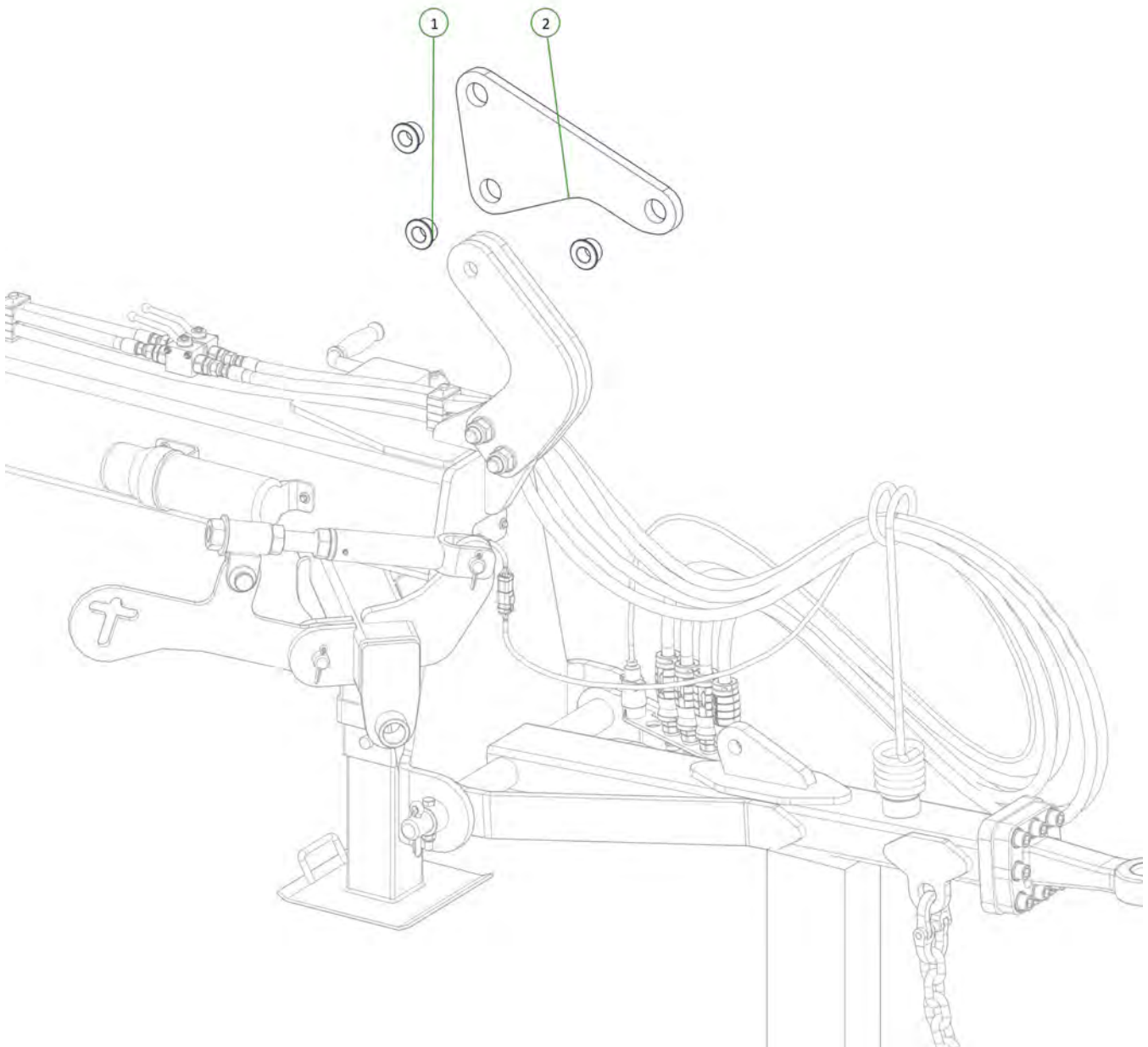
1502-FK-1512-12A



| Item No. | Description                  | Number      | Qty |
|----------|------------------------------|-------------|-----|
| 1        | Bush 51 OD x 26 ID x 25 Long | 0801-512625 | 3   |
| 2        | Front Angle Link Plate       | 1500-613    | 1   |



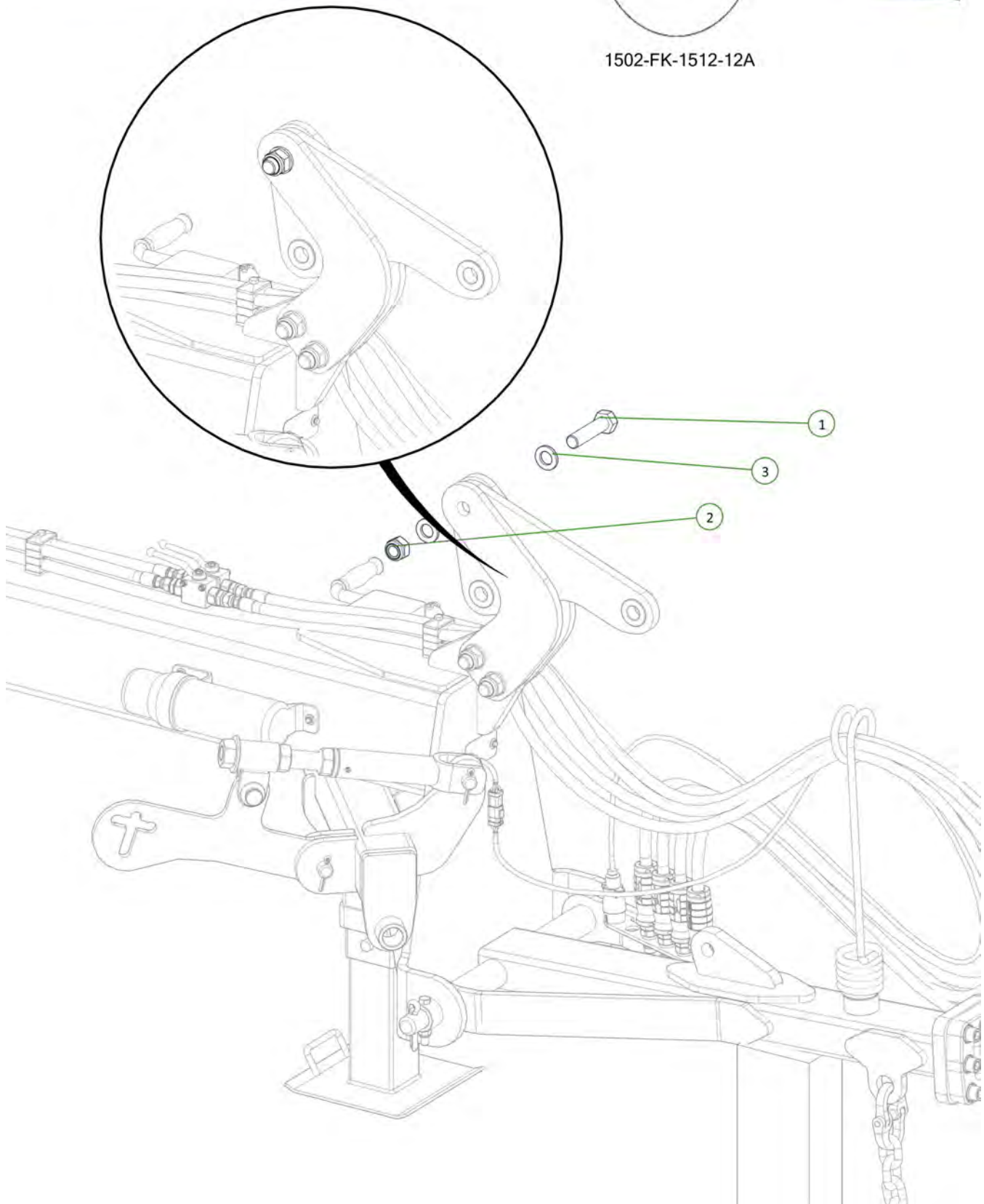
1502-FK-1512-12A



| Item No. | Description                 | Number     | Qty |
|----------|-----------------------------|------------|-----|
| 1        | M24 x 100 Class 8.8 ZP Bolt | 0211-24100 | 1   |
| 2        | Nyloc Nut M24               | 0221-NYL24 | 1   |
| 3        | Washer Flat M24             | 0231-F24   | 2   |



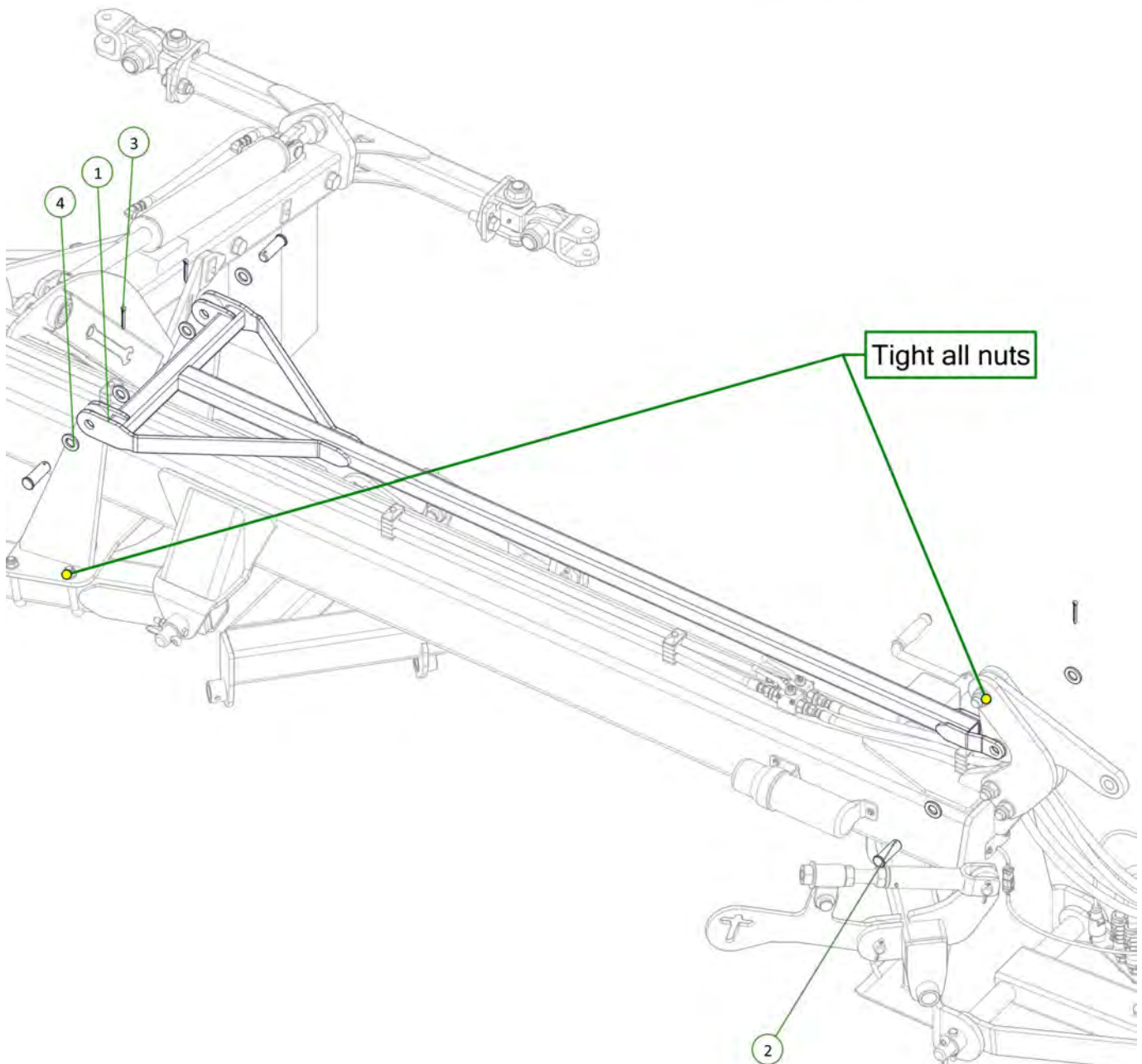
1502-FK-1512-12A



| Item No. | Description            | Number        | Qty |
|----------|------------------------|---------------|-----|
| 1        | Main Level Lift        | 1510-316      | 1   |
| 2        | Clevis Pin 25mm x 75mm | 0801-KE0307-1 | 3   |
| 3        | Cotter Pin M6 x 50mm   | 0261-PINC650  | 3   |
| 4        | Washer Flat M24        | 0231-F24      | 6   |



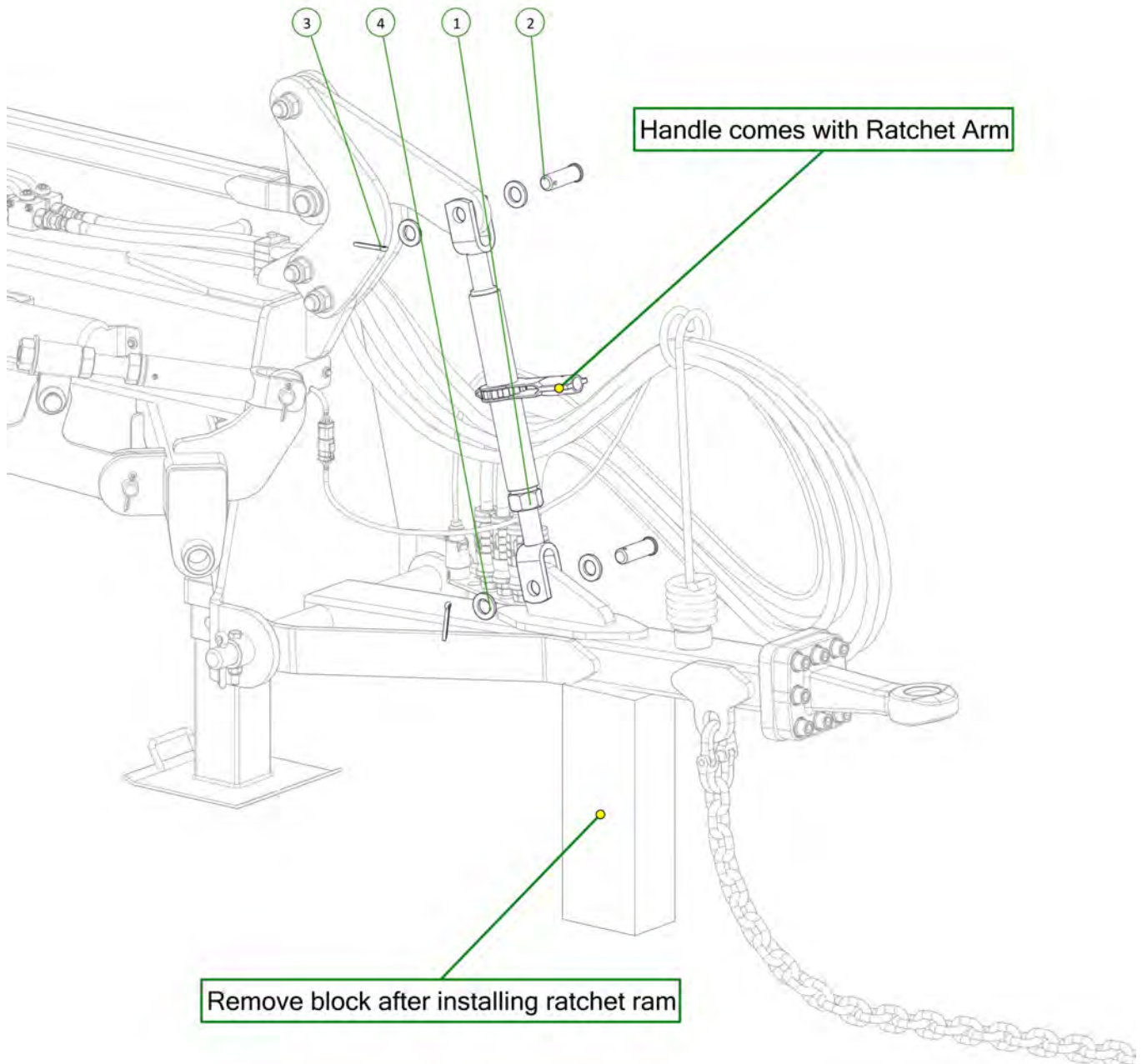
1502-FK-1512-12A



| Item No. | Description            | Number        | Qty |
|----------|------------------------|---------------|-----|
| 1        | Heavy Duty Ratchet Ram | 0801-19RAJ013 | 1   |
| 2        | Clevis Pin 25mm x 75mm | 0801-KE0307-1 | 2   |
| 3        | Cotter Pin M6 x 50mm   | 0261-PINC650  | 2   |
| 4        | Washer Flat M24        | 0231-F24      | 4   |



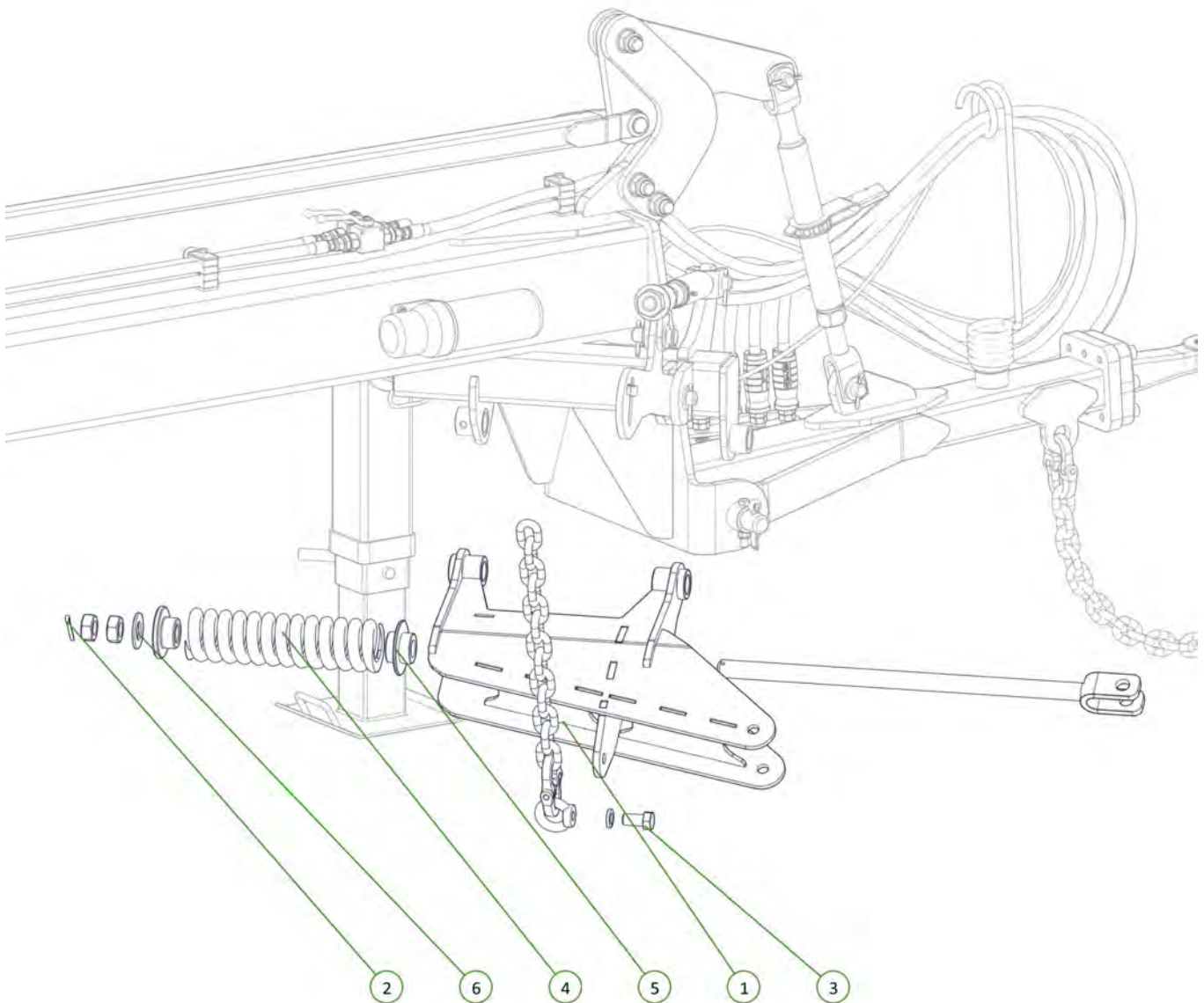
1502-FK-0810-50A



| Item No. | Description                             | Number       | Qty |
|----------|-----------------------------------------|--------------|-----|
| 1        | Tension Box                             | 0810-57      | 1   |
| 2        | Module Tension Rod Assembly             | 0810-105A    | 1   |
| 3        | Height Adjusting Chain Assembly 13 Link | 0801-20MCA   | 1   |
| 4        | 20mm Compression Spring                 | 0801-XK9261S | 1   |
| 5        | Rigid Spring Locator                    | 0801-10-S2L  | 1   |
| 6        | Washer High Tensile 1 1/4"              | 0232-HT11-4  | 1   |



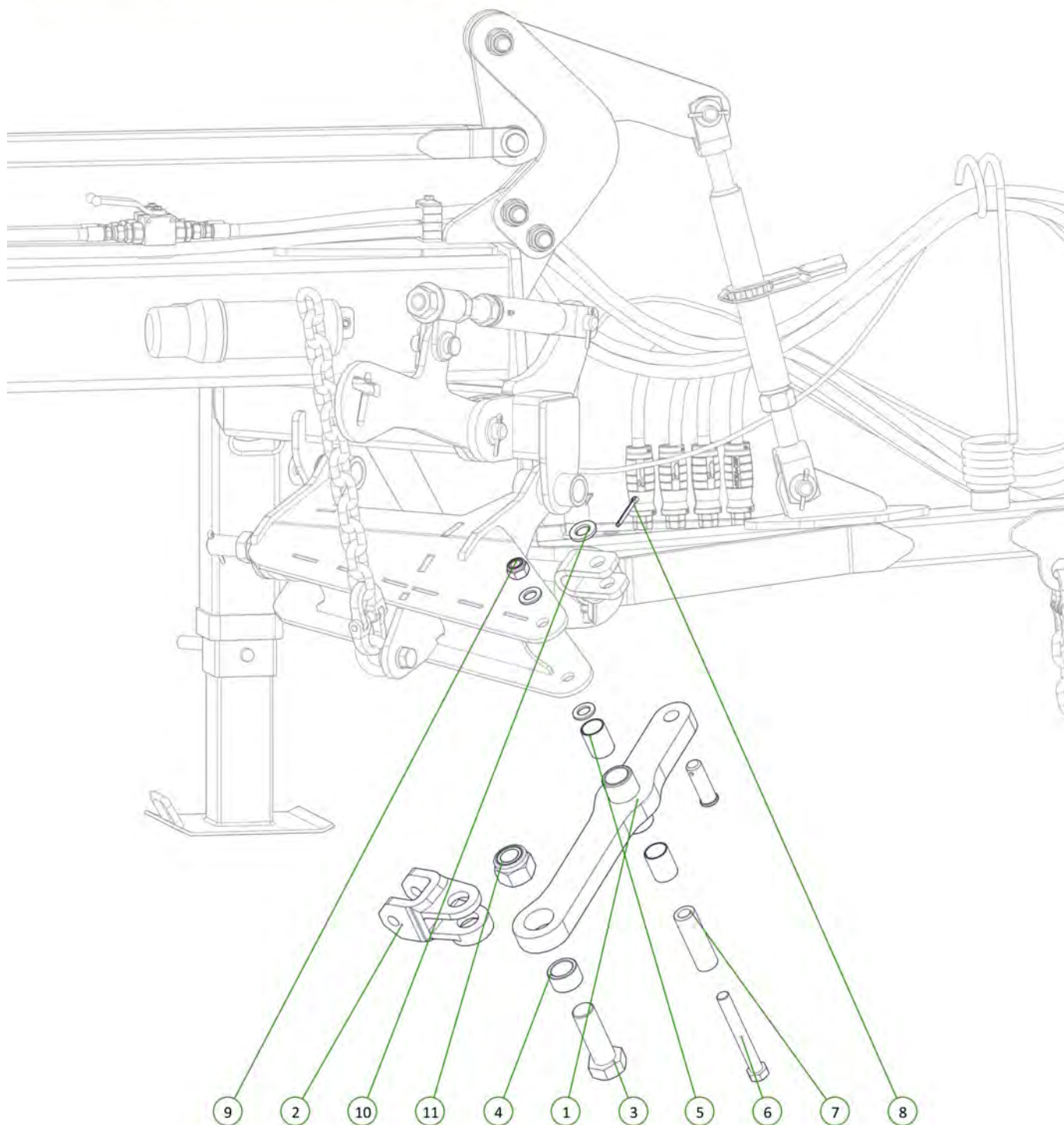
1502-FK-1512-01A



| Item No. | Description                  | Number         | Qty |
|----------|------------------------------|----------------|-----|
| 1        | Chain Tension Arm            | 0810-104-3.5   | 1   |
| 2        | Forged Clevis 21mm Bolt Hole | 0801-FC21      | 1   |
| 3        | M36 Grade 8.8 ZP Bolt        | 0211-36105     | 1   |
| 4        | Wear Bush                    | 1501-365033-SS | 1   |
| 5        | 35 ID x 50mm DU Bush         | 0113-MB3550DU  | 2   |
| 6        | M20 x 160 Class 8.8 ZP Bolt  | 0211-20160     | 1   |
| 7        | Module Pivot Arm Bush        | 0801-10-110    | 1   |
| 8        | Cotter Pin M6 x 50mm         | 0261-PINC650   | 1   |
| 9        | Nyloc Nut M20                | 0221-NYL20     | 1   |
| 10       | Washer Flat M2               | 0231-F24       | 2   |
| 11       | Nyloc Nut M36                | 0221-NYL36     | 1   |



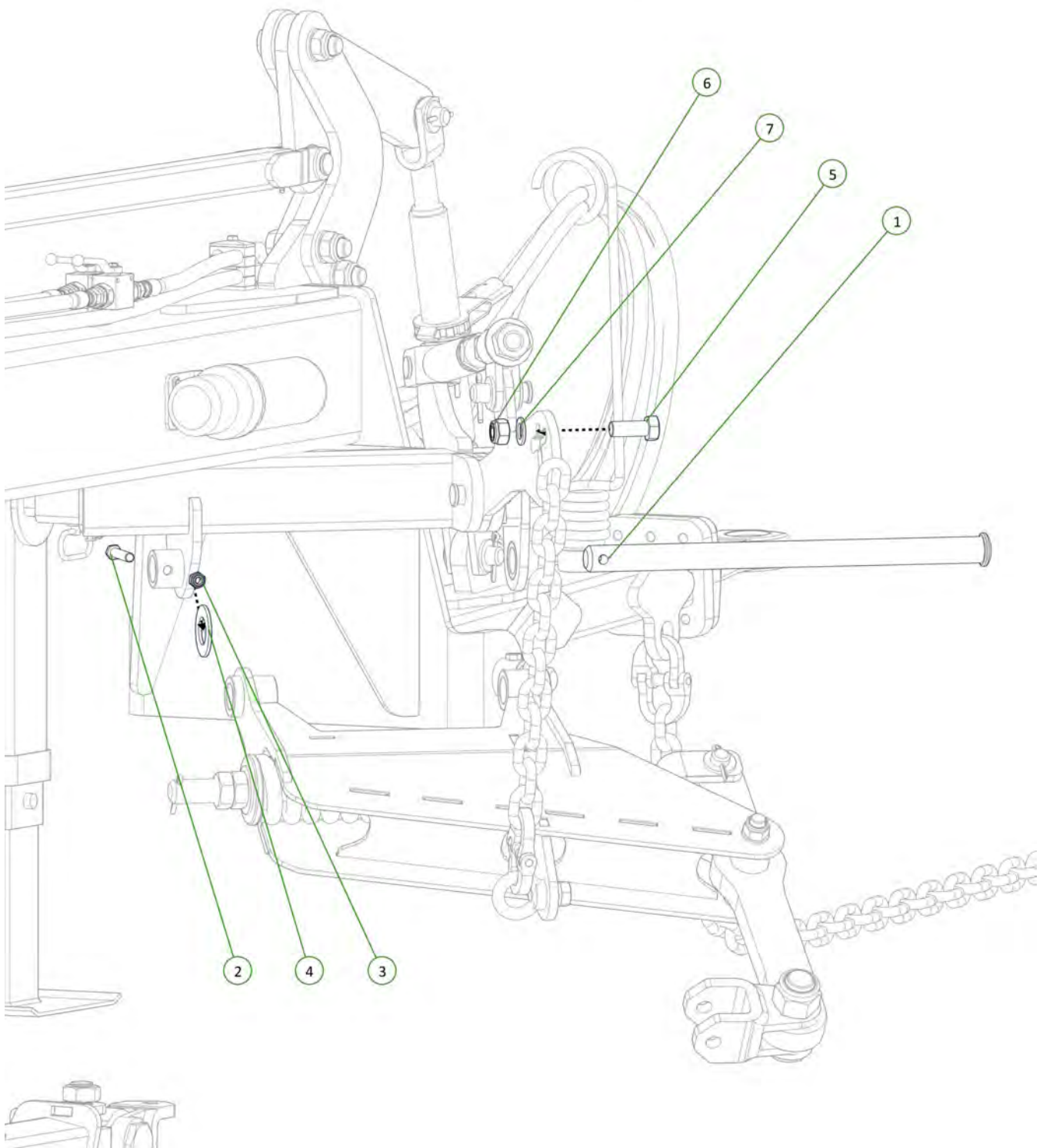
1502-FK-1512-01A



| Item No. | Description                | Number      | Qty |
|----------|----------------------------|-------------|-----|
| 1        | Chain Mount Pivot Pin      | 0801-10-51  | 1   |
| 2        | M12 x 80 Class 8.8 ZP Bolt | 0211-1280   | 1   |
| 3        | Nyloc Nut M12              | 0221-NYL12  | 1   |
| 4        | Washer High Tensile 1 3/8" | 0232-HT13-8 | 1   |
| 5        | M20 x 50 Class 8.8 ZP Bolt | 0211-2050   | 1   |
| 6        | Nyloc Nut M20              | 0221-NYL20  | 1   |
| 7        | Washer Flat M20            | 0231-F20    | 1   |

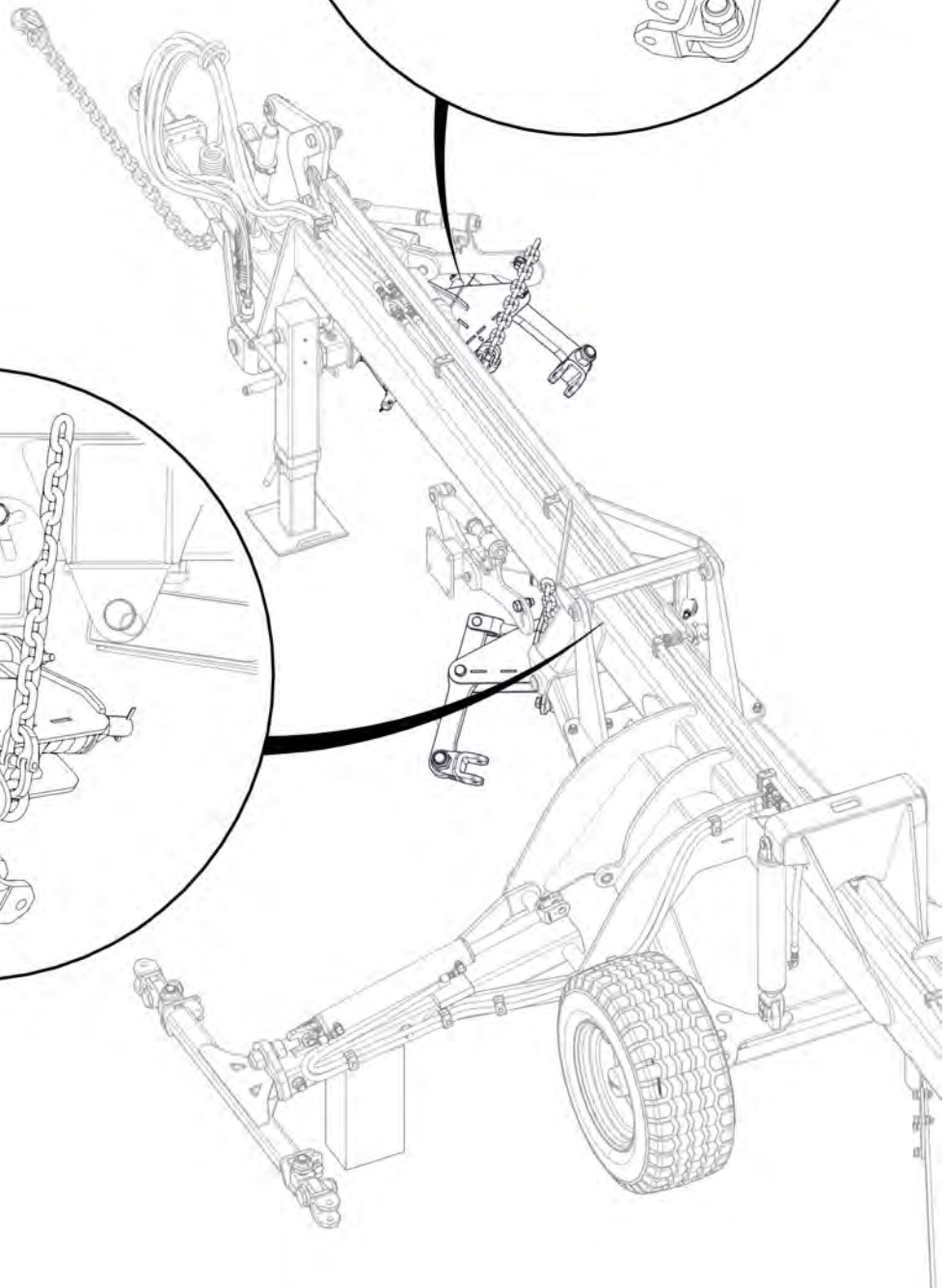
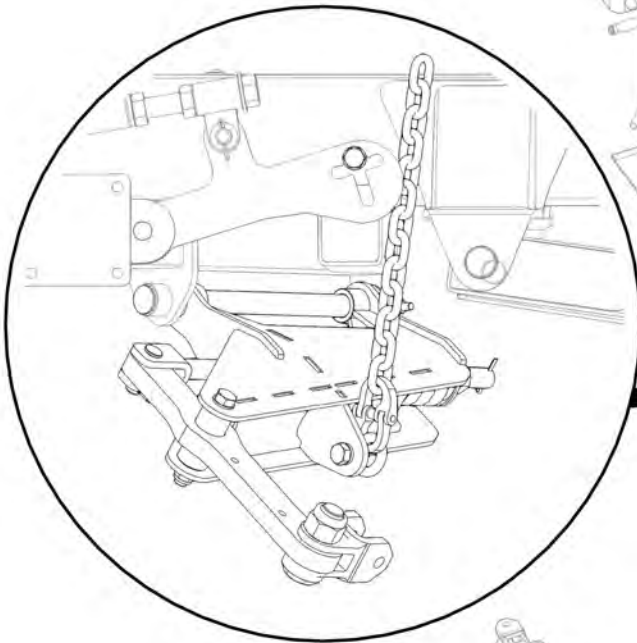
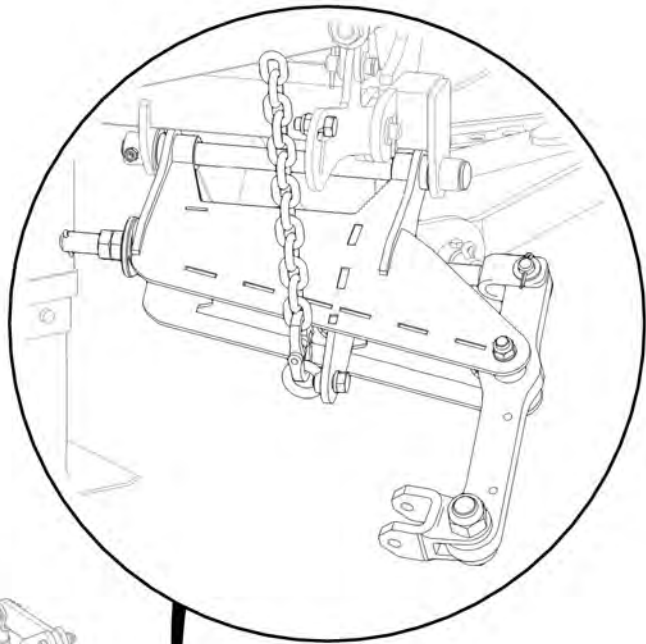


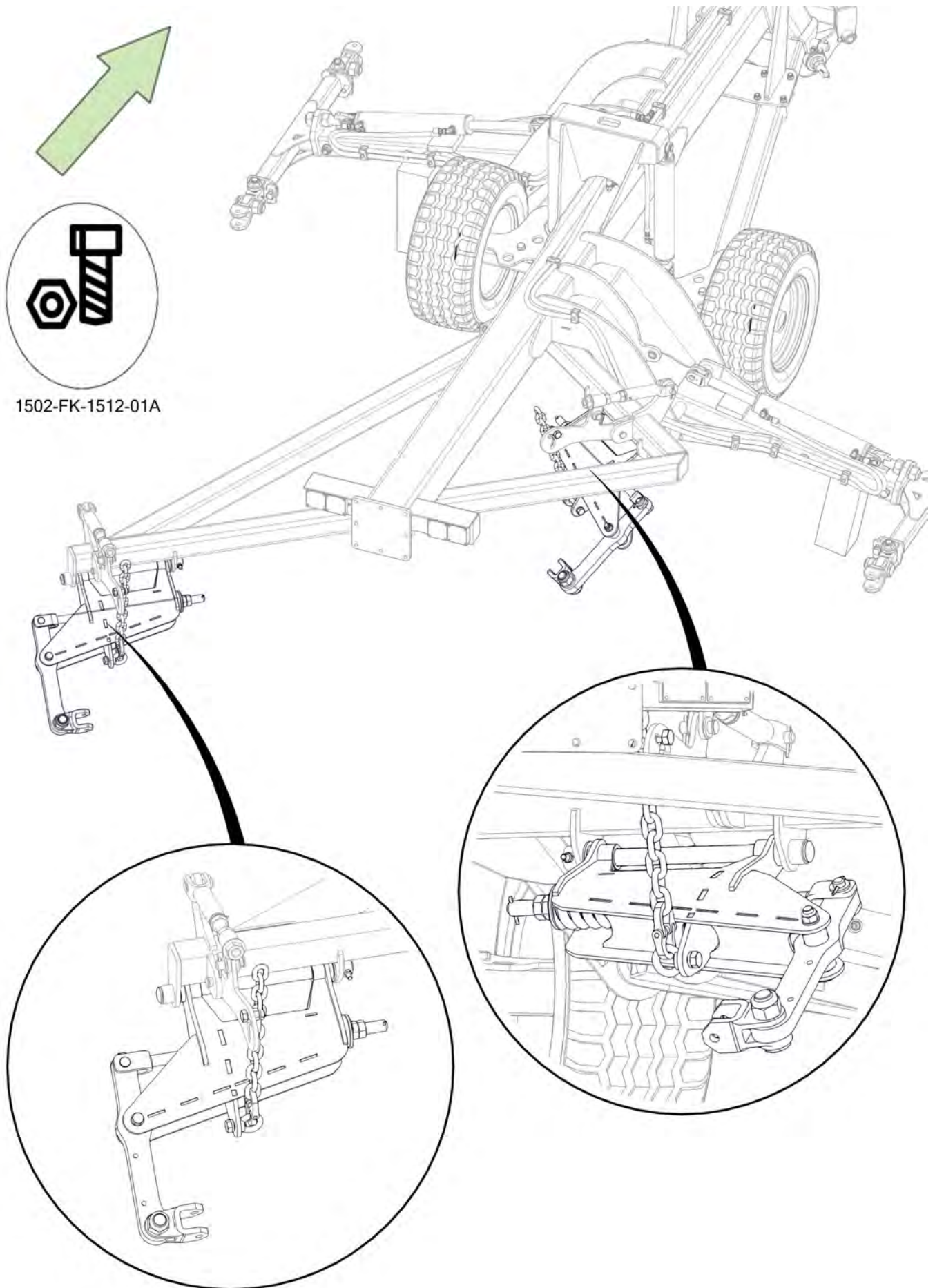
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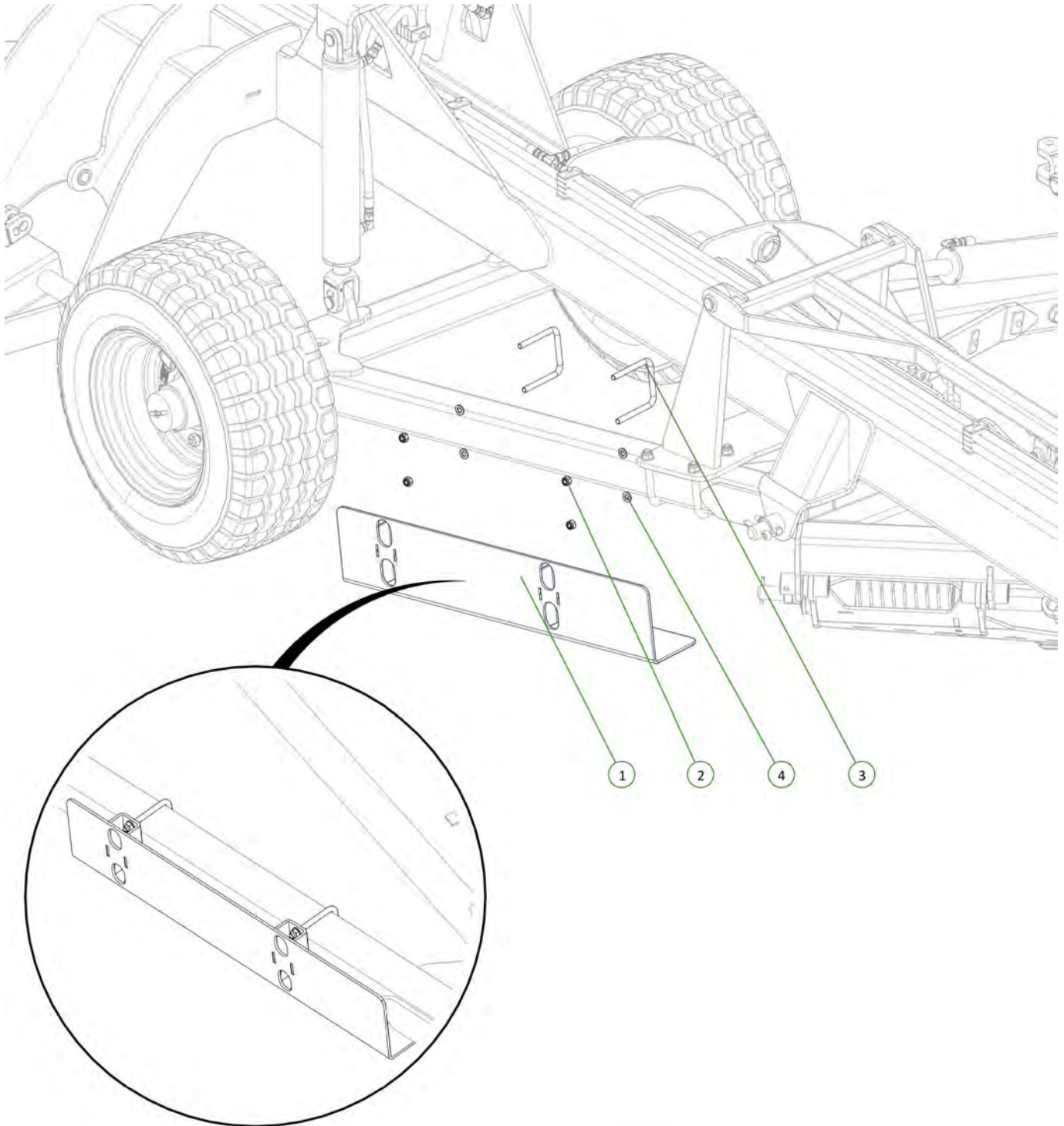




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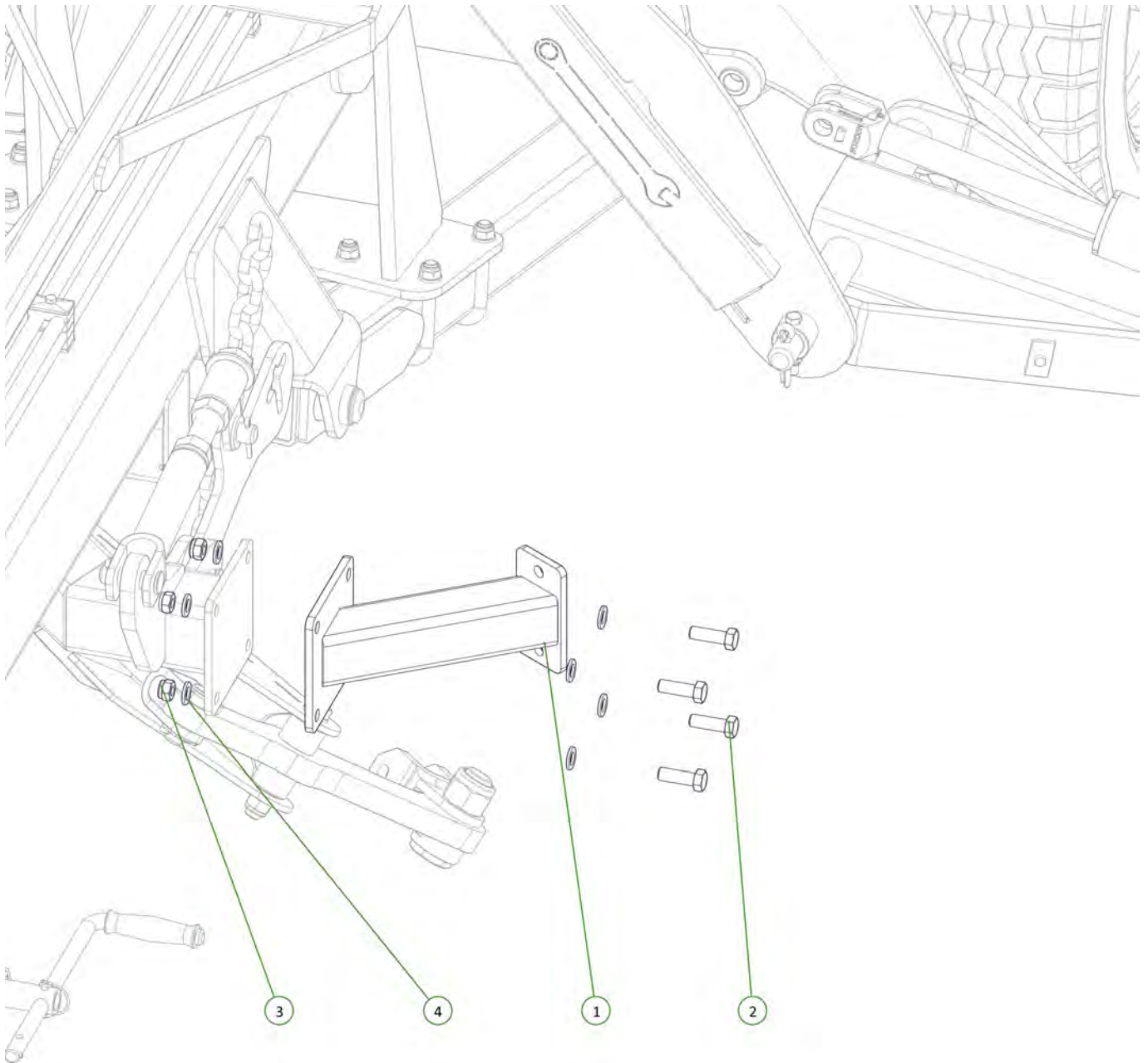




| Item No. | Description                      | Number        | Qty |
|----------|----------------------------------|---------------|-----|
| 1        | Guard                            | 1510-70       | 1   |
| 2        | Nyloc Nut M12                    | 0221-NYL12    | 4   |
| 3        | U-Bolt M12 x 125 Deep x 102 Wide | 0271-12125102 | 2   |
| 4        | Washer Flat M12                  | 0231-F12      | 4   |



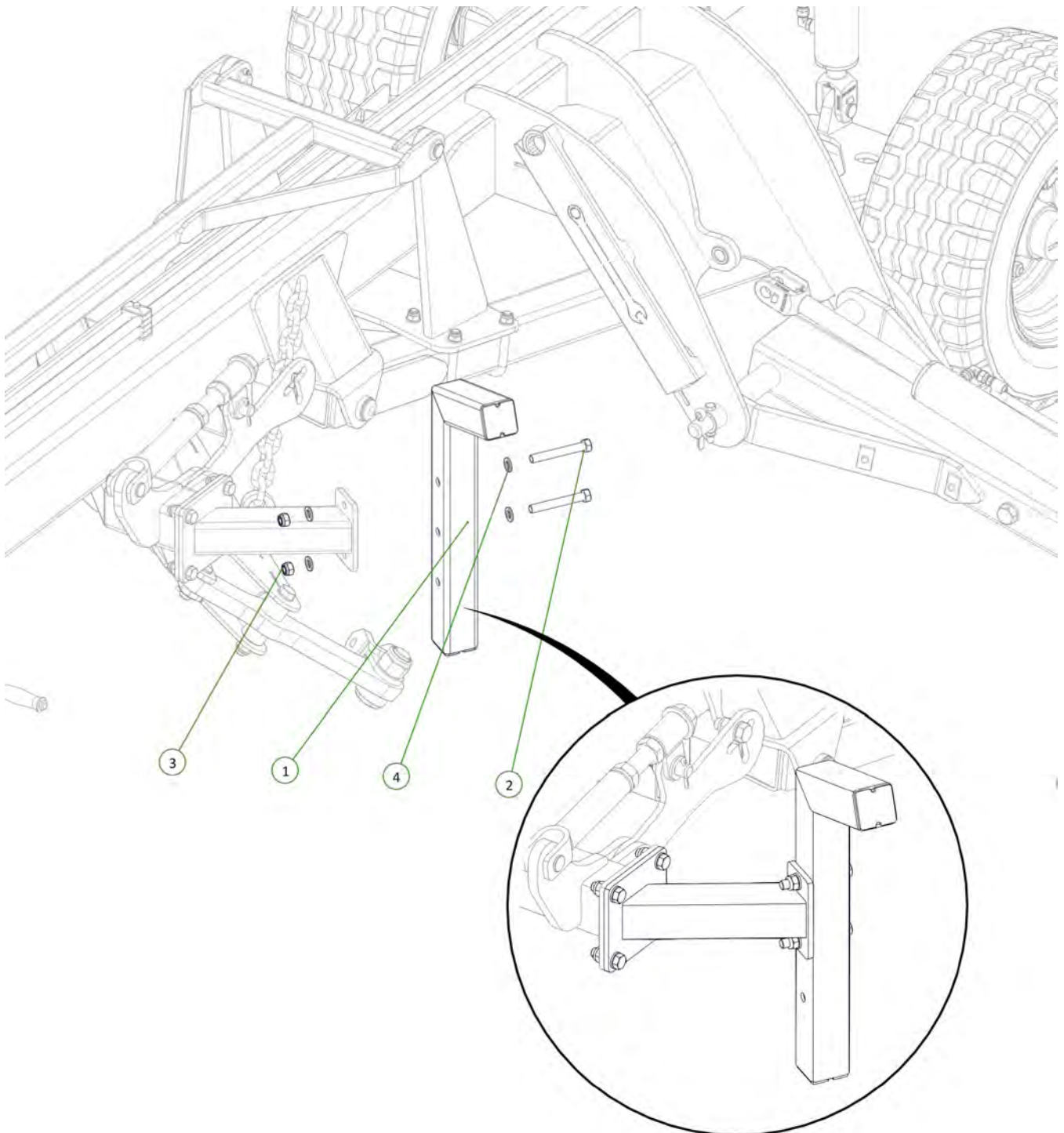
1502-FK-1512-158A



| Item No. | Description                | Number     | Qty |
|----------|----------------------------|------------|-----|
| 1        | Front Outrigger            | 1510-64    | 1   |
| 2        | M16 x 50 Class 8.8 ZP Bolt | 0211-1650  | 4   |
| 3        | Nyloc Nut M16              | 0221-NYL16 | 4   |
| 4        | Washer Flat M16            | 0231-F16   | 8   |



1502-FK-1512-01A



| Item No. | Description                 | Number     | Qty |
|----------|-----------------------------|------------|-----|
| 1        | Outrigger                   | 1510-62    | 1   |
| 2        | M16 x 120 Class 8.8 ZP Bolt | 0211-16120 | 2   |
| 3        | Nyloc Nut M16               | 0221-NYL16 | 2   |
| 4        | Washer Flat M16             | 0231-F16   | 4   |



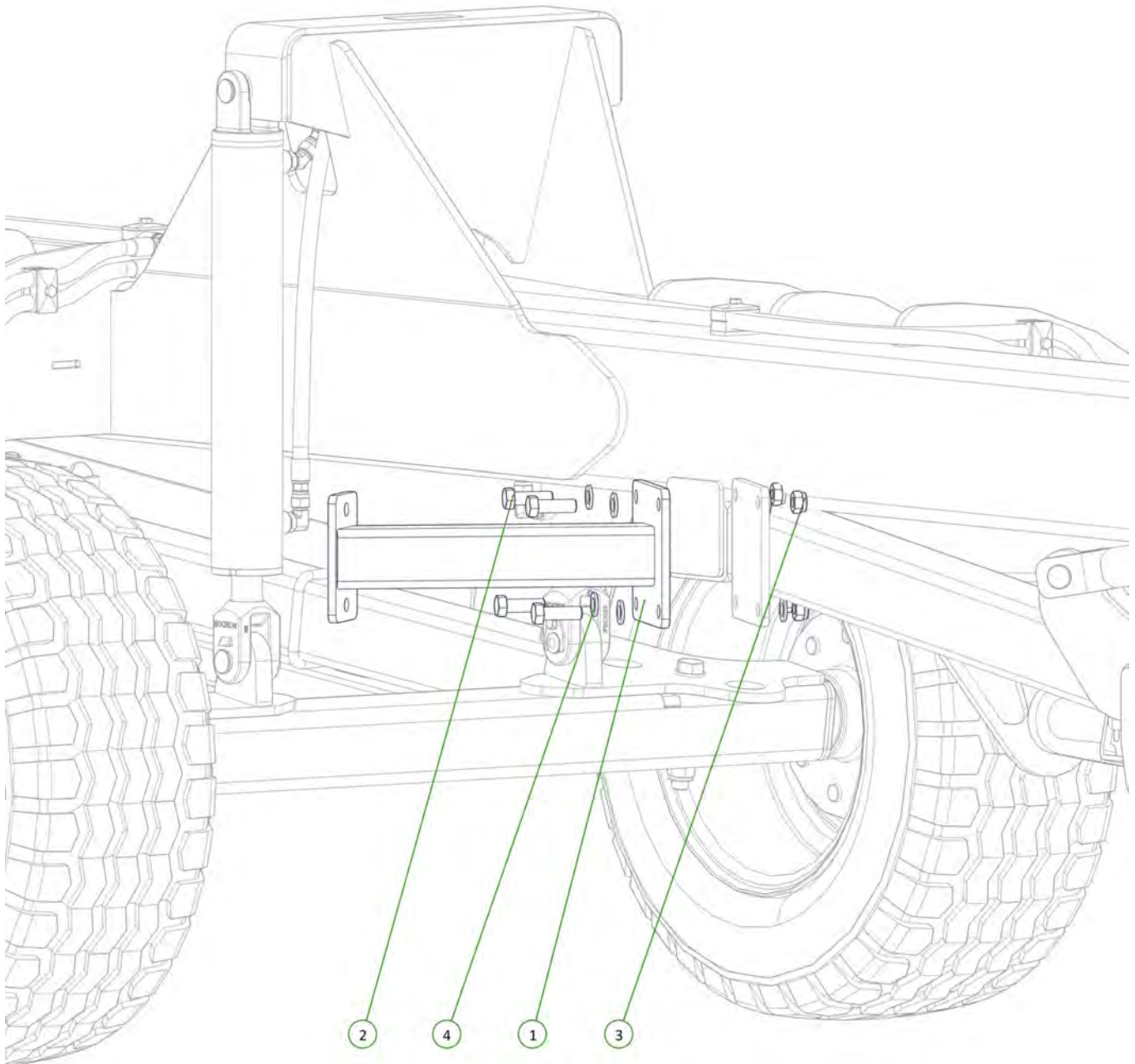
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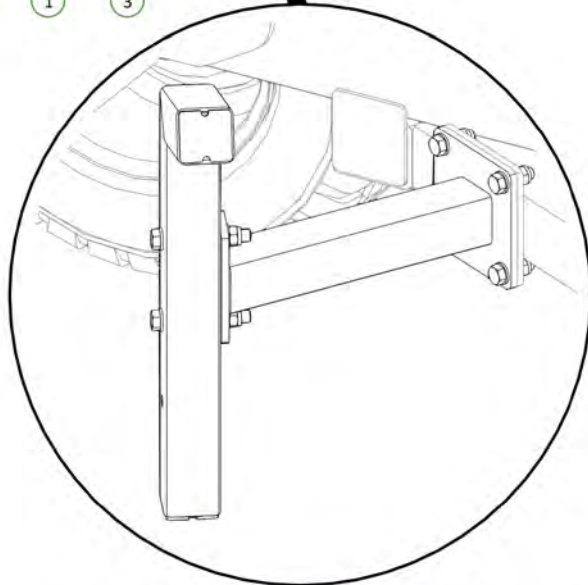
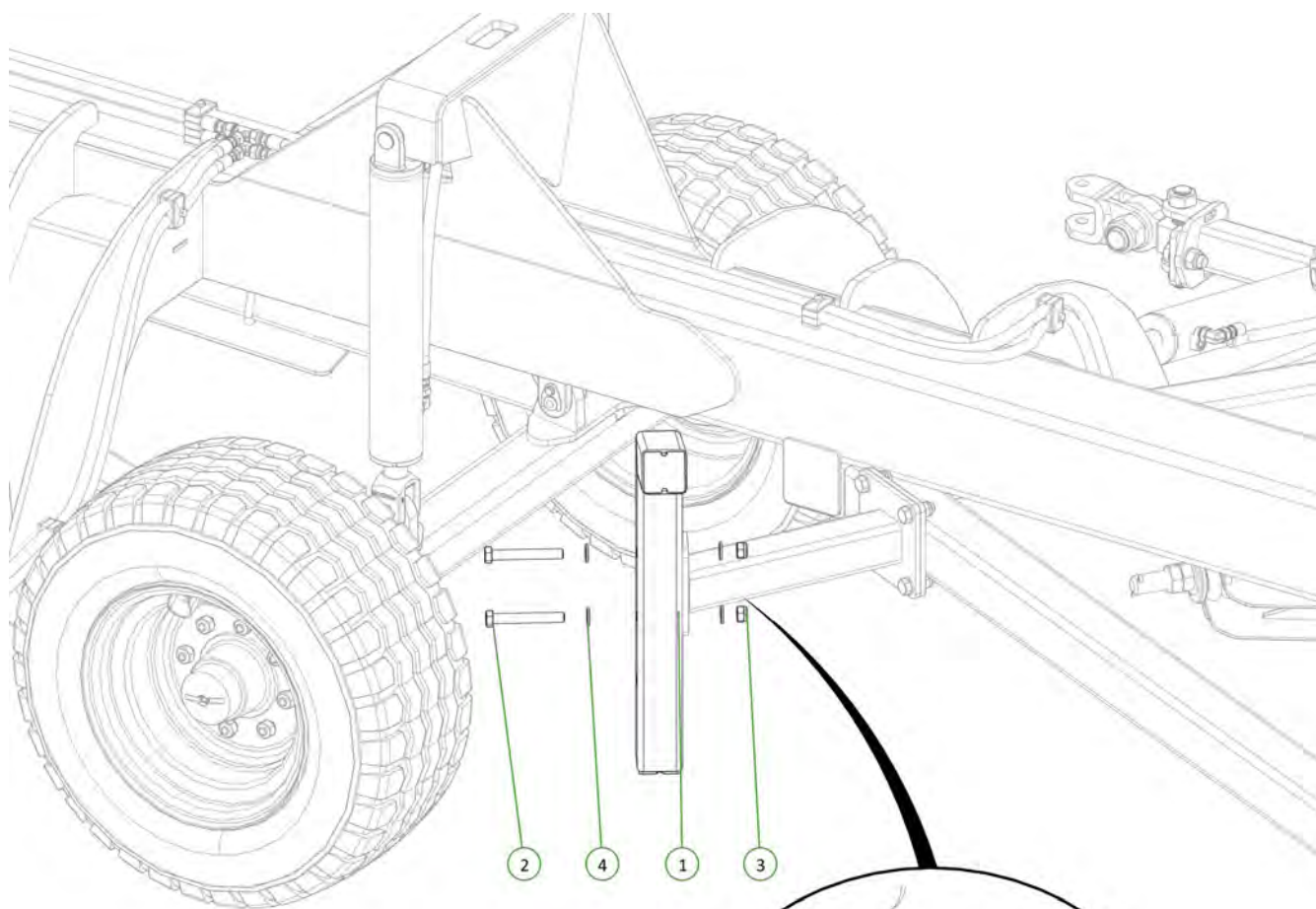


| Item No. | Description                | Number     | Qty |
|----------|----------------------------|------------|-----|
| 1        | Rear Outrigger             | 1510-63    | 1   |
| 2        | M16 x 50 Class 8.8 ZP Bolt | 0211-1650  | 4   |
| 3        | Nyloc Nut M16              | 0221-NYL16 | 4   |
| 4        | Washer Flat M16            | 0231-F16   | 8   |



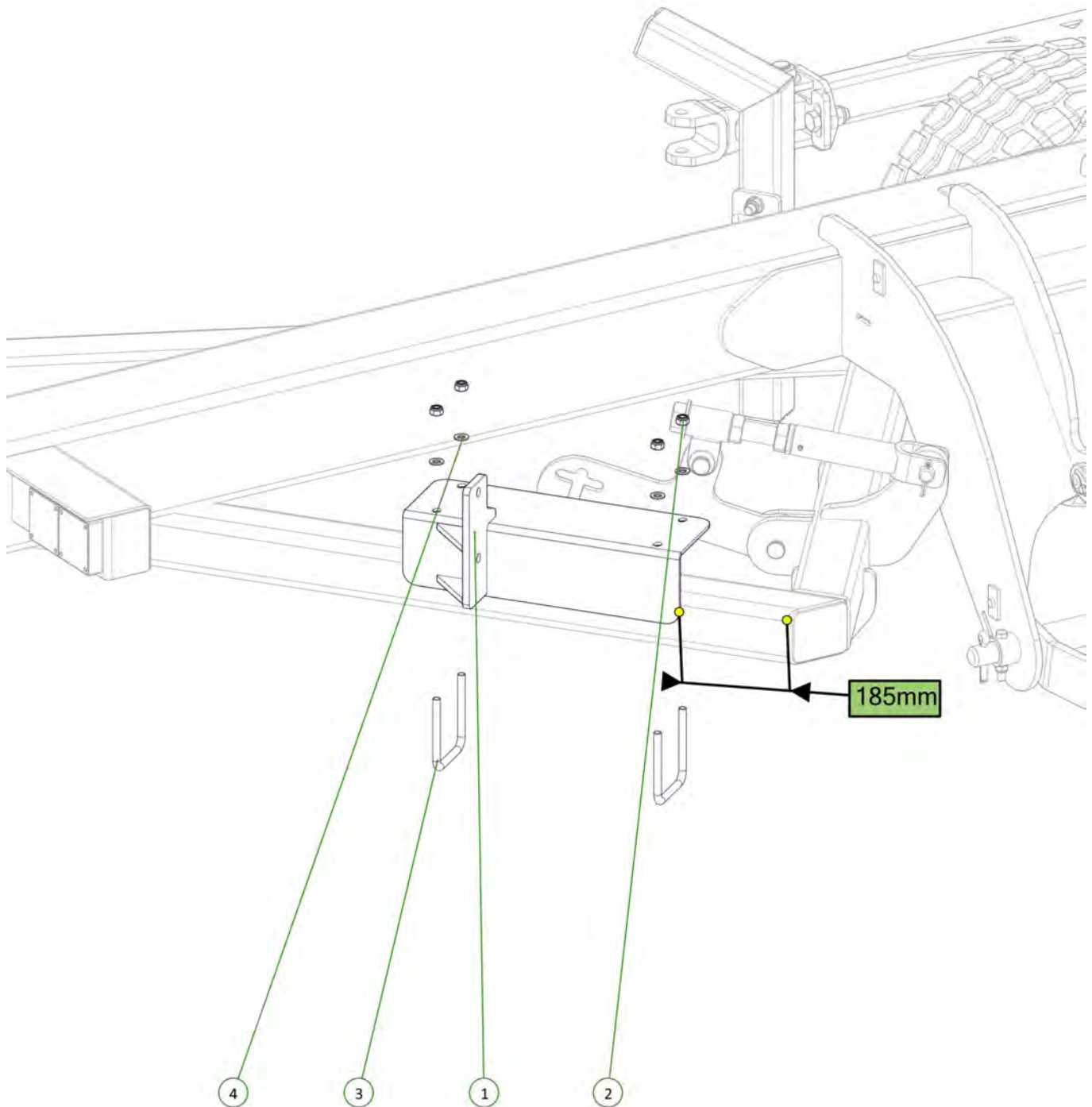
1502-FK-1512-01A





1502-FK-1512-01A

| Item No. | Description                 | Number     | Qty |
|----------|-----------------------------|------------|-----|
| 1        | Outrigger                   | 1510-62    | 1   |
| 2        | M16 x 120 Class 8.8 ZP Bolt | 0211-16120 | 2   |
| 3        | Nyloc Nut M16               | 0221-NYL16 | 2   |
| 4        | Washer Flat M16             | 0231-F16   | 4   |

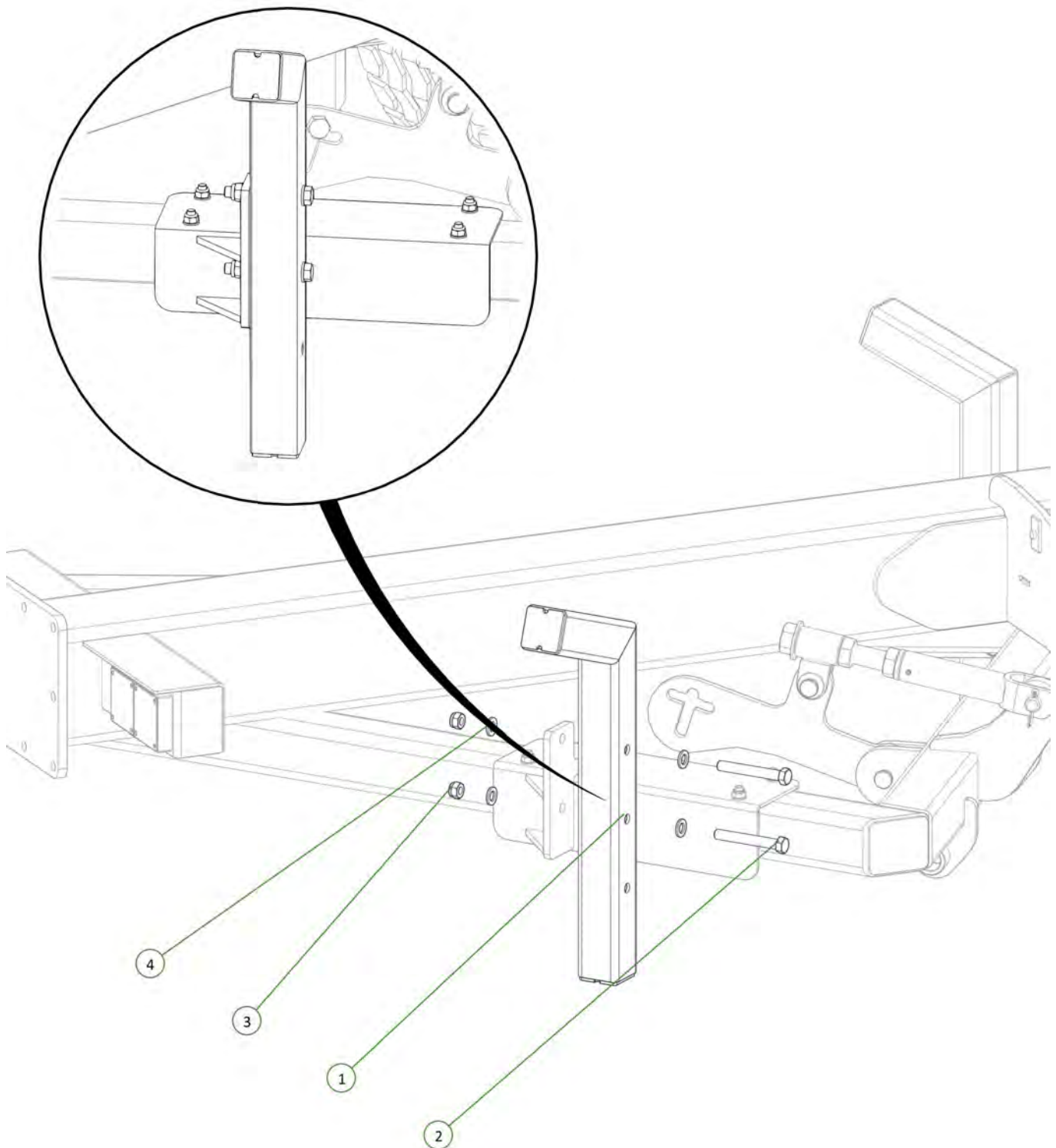


| Item No. | Description                      | Number        | Qty |
|----------|----------------------------------|---------------|-----|
| 1        | Guard                            | 1510-65       | 1   |
| 2        | Nyloc Nut M12                    | 0221-NYL12    | 4   |
| 3        | U-Bolt M12 x 125 Deep x 102 Wide | 0271-12125102 | 2   |
| 4        | Washer Flat M12                  | 0231-F12      | 4   |



1502-FK-1512-01A



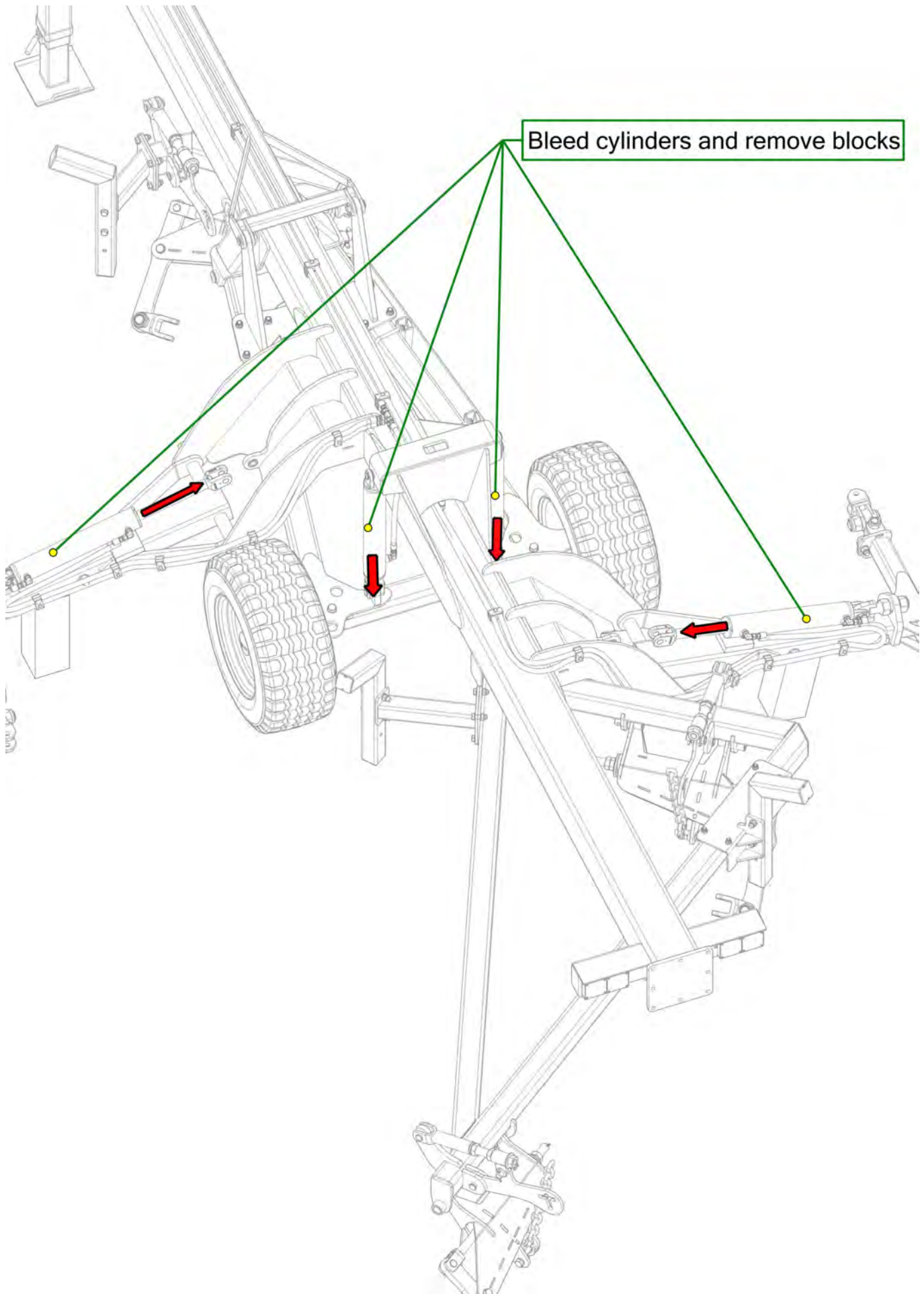


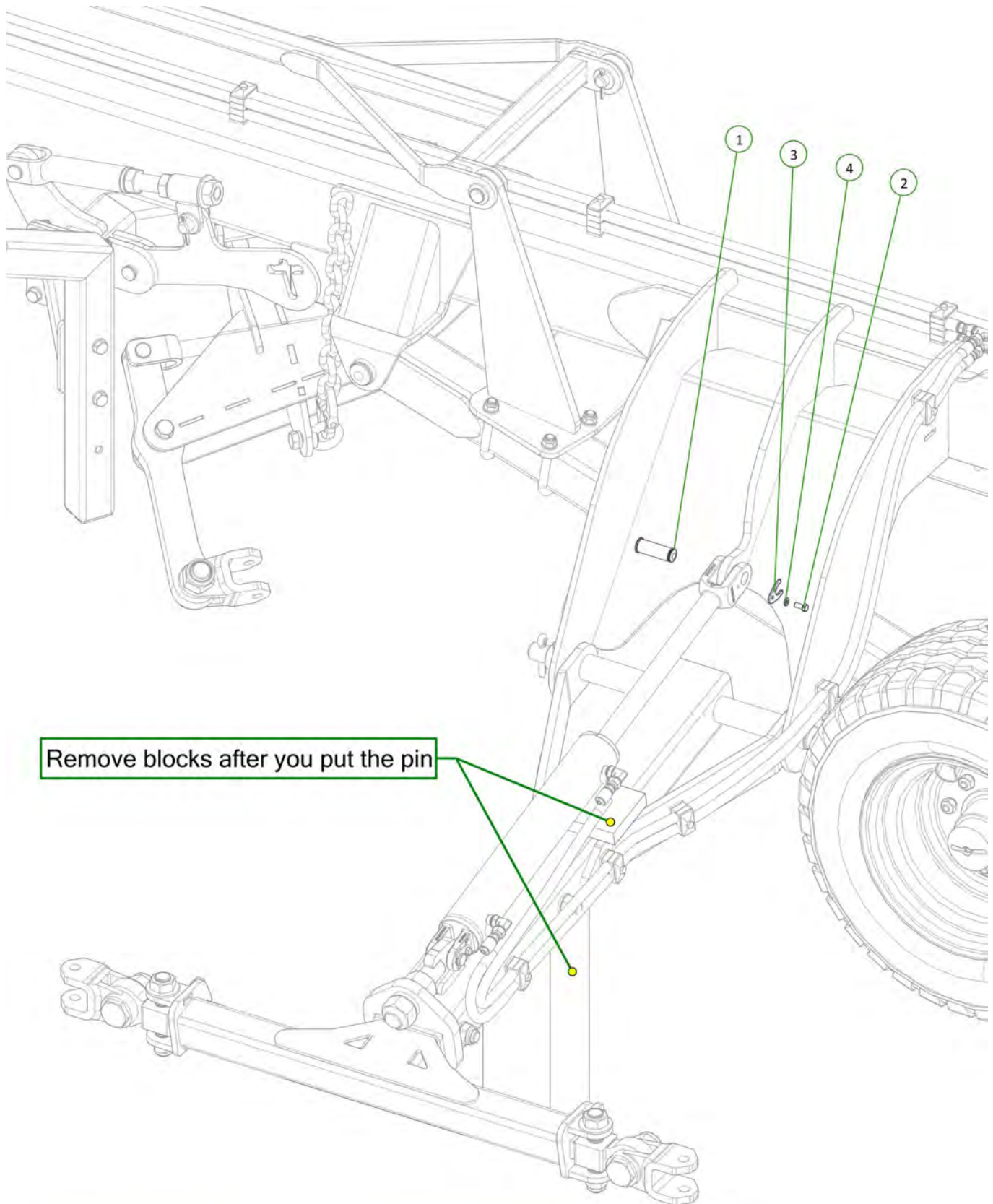
| Item No. | Description                 | Number     | Qty |
|----------|-----------------------------|------------|-----|
| 1        | Outrigger                   | 1510-62    | 1   |
| 2        | M16 x 120 Class 8.8 ZP Bolt | 0211-16120 | 2   |
| 3        | Nyloc Nut M16               | 0221-NYL16 | 2   |
| 4        | Washer Flat M16             | 0231-F16   | 4   |



1502-FK-1512-01A

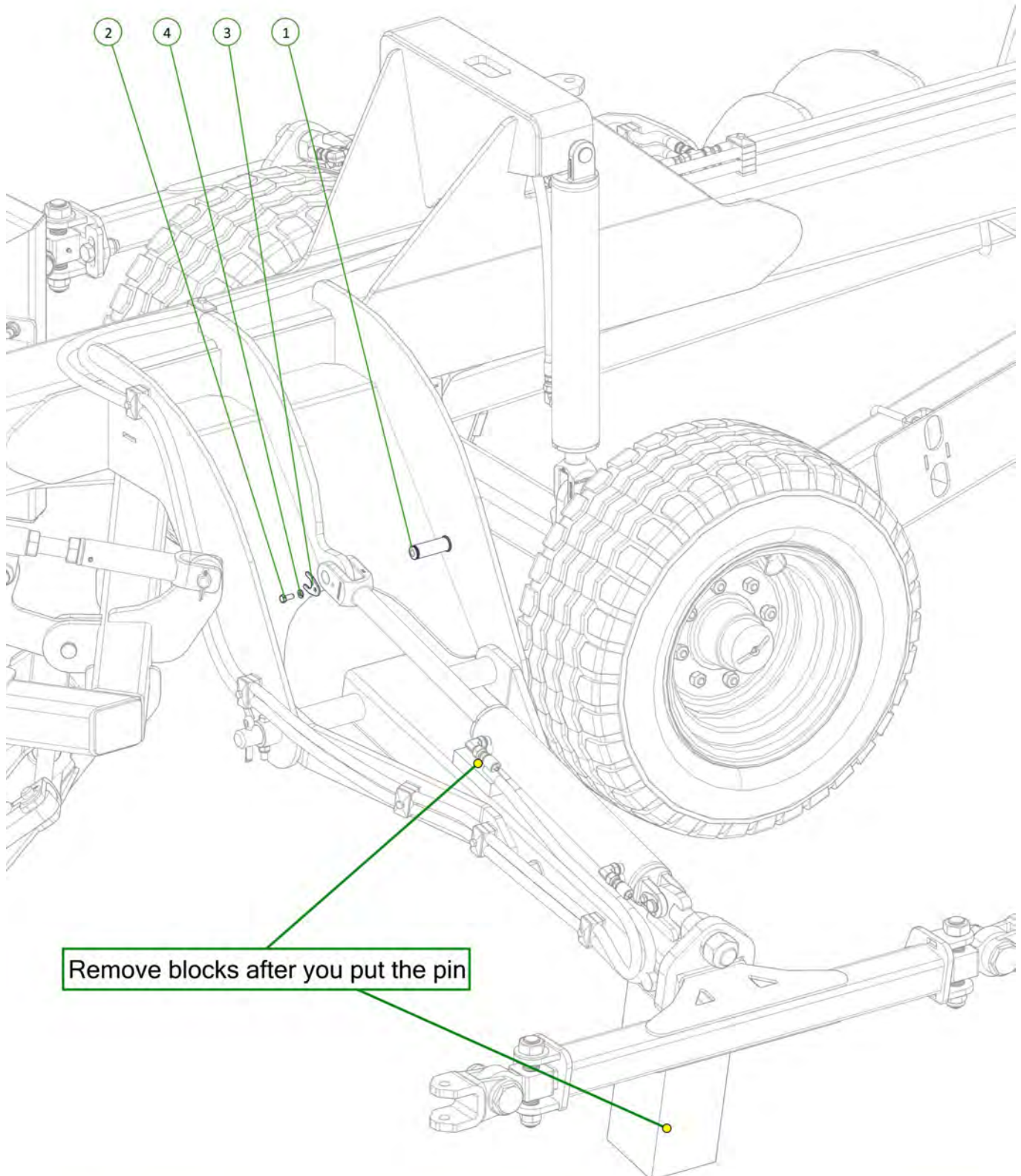






| Item No. | Description                      | Number         | Qty |
|----------|----------------------------------|----------------|-----|
| 1        | Hydraulic Cylinder Pin 1" x 68mm | 0313-NCP1X68DS | 1   |
| 2        | M8 x 20 Class 8.8 ZP Bolt        | 0211-820       | 1   |
| 3        | Retaining Lug                    | 0313-10I23M3   | 1   |
| 4        | Washer Spring M8                 | 0231-S8        | 1   |





| Item No. | Description                      | Number         | Qty |
|----------|----------------------------------|----------------|-----|
| 1        | Hydraulic Cylinder Pin 1" x 68mm | 0313-NCP1X68DS | 1   |
| 2        | M8 x 20 Class 8.8 ZP Bolt        | 0211-820       | 1   |
| 3        | Retaining Lug                    | 0313-10I23M3   | 1   |
| 4        | Washer Spring M8                 | 0231-S8        | 1   |

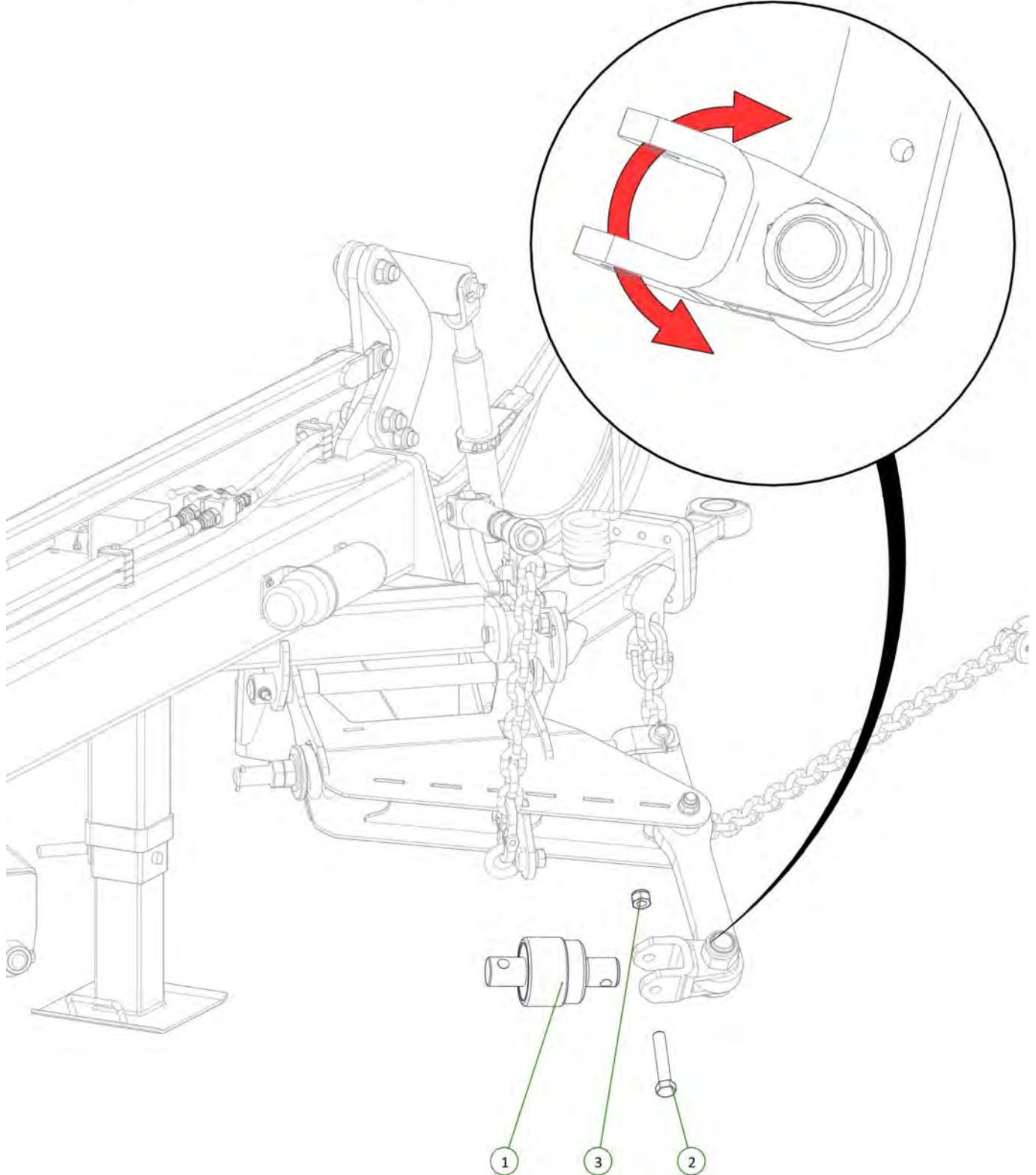


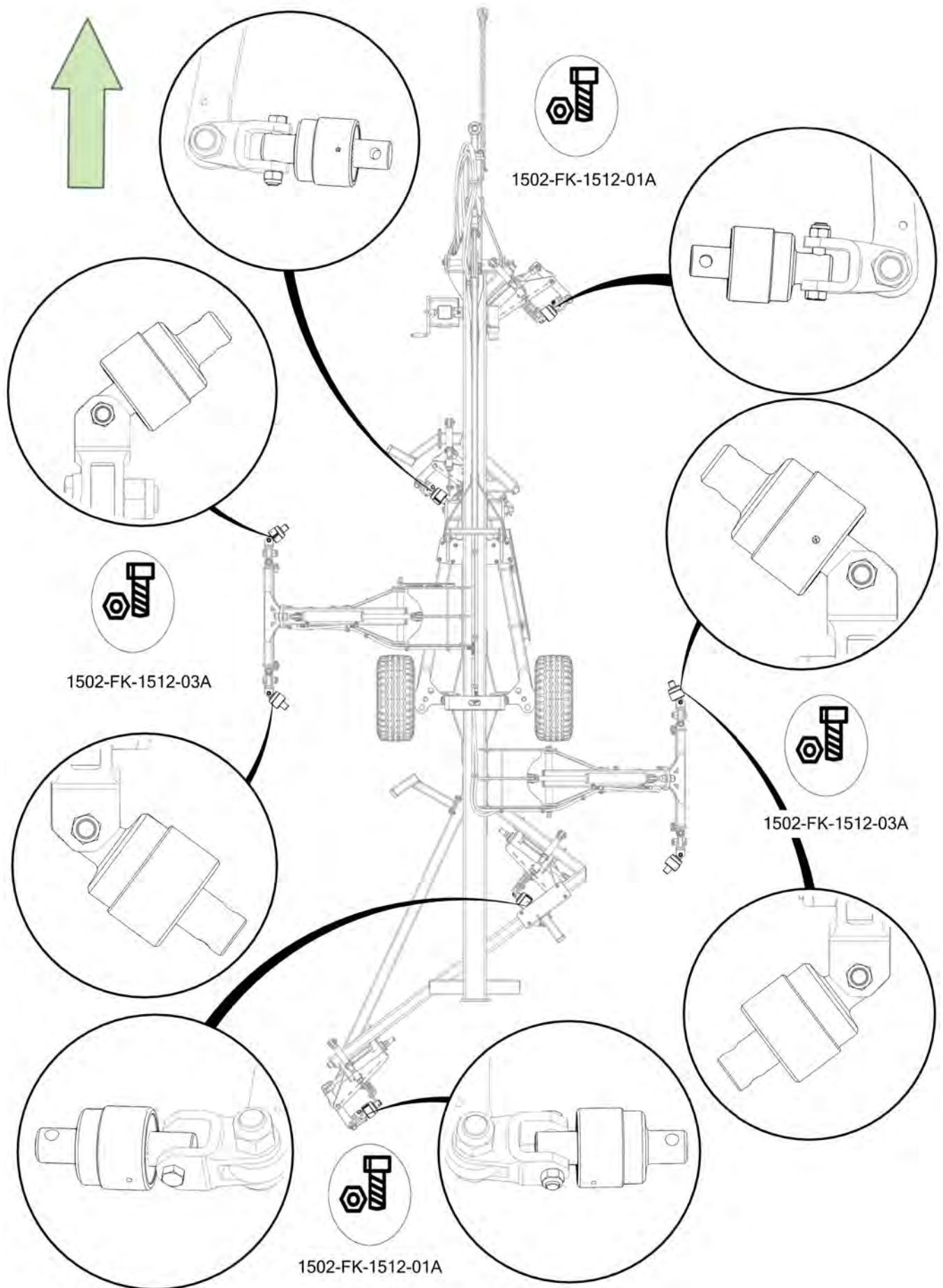
| Item No. | Description                               | Number       | Qty |
|----------|-------------------------------------------|--------------|-----|
| 1        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  | 1   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST | 1   |
| 3        | Nyloc Nut M20                             | 0221-NYL20   | 1   |

Ensure ALL clevis can pivot after installation



1502-FK-1512-01A

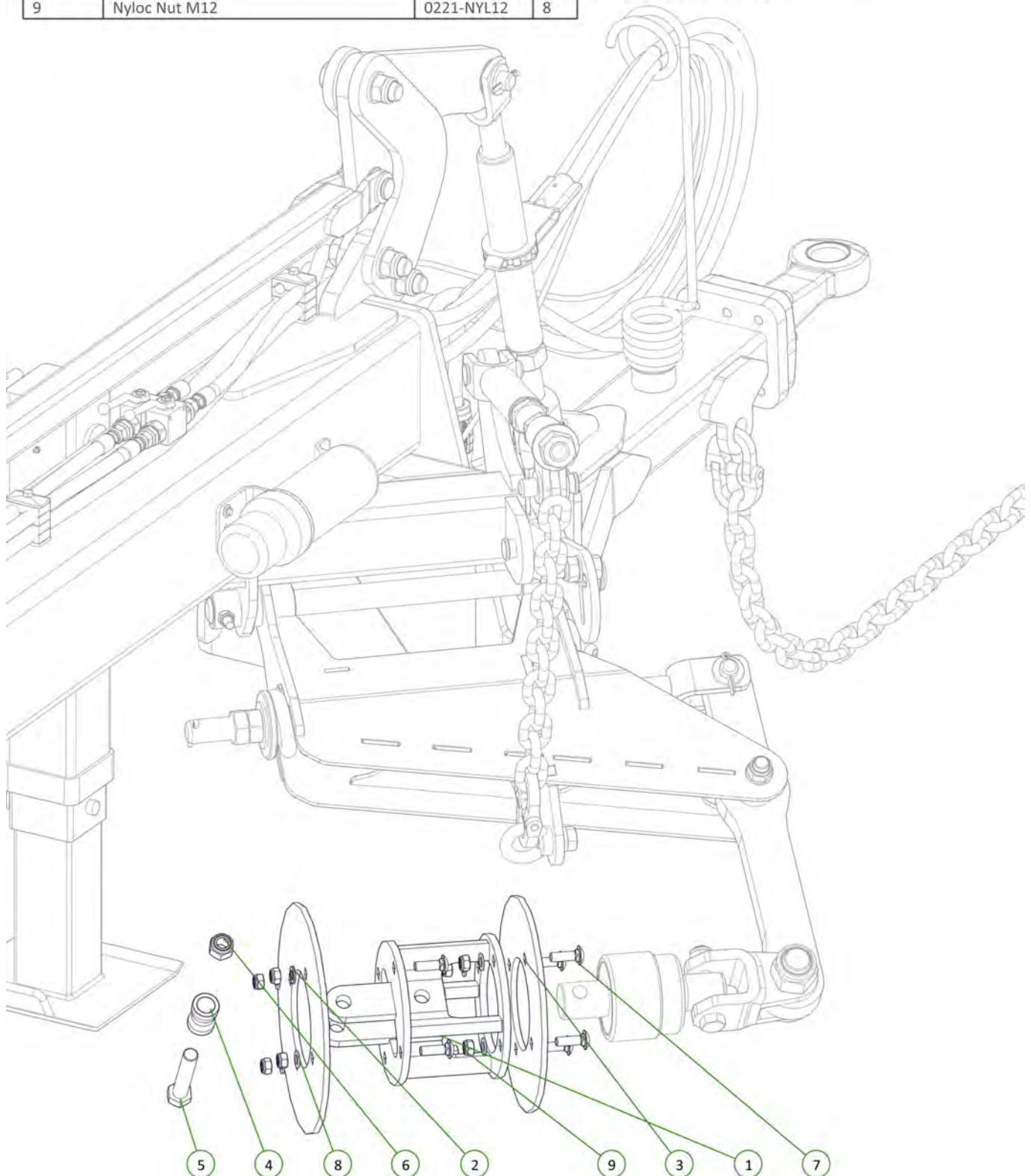




| Item No. | Description                               | Number       | Qty |
|----------|-------------------------------------------|--------------|-----|
| 1        | Tapered Chain End Hub                     | 0810-45-6    | 1   |
| 2        | TCE Blade Large                           | 0800-767     | 1   |
| 3        | TCE Blade Small                           | 0800-766     | 1   |
| 4        | Disc Chain Spacer                         | 0801-253755  | 1   |
| 5        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST | 1   |
| 6        | Nyloc Nut M20                             | 0221-NYL20   | 1   |
| 7        | M12 x 40 Coach Head Bolt                  | 0215-CH1240  | 8   |
| 8        | Washer Flat M12                           | 0231-F12     | 8   |
| 9        | Nyloc Nut M12                             | 0221-NYL12   | 8   |



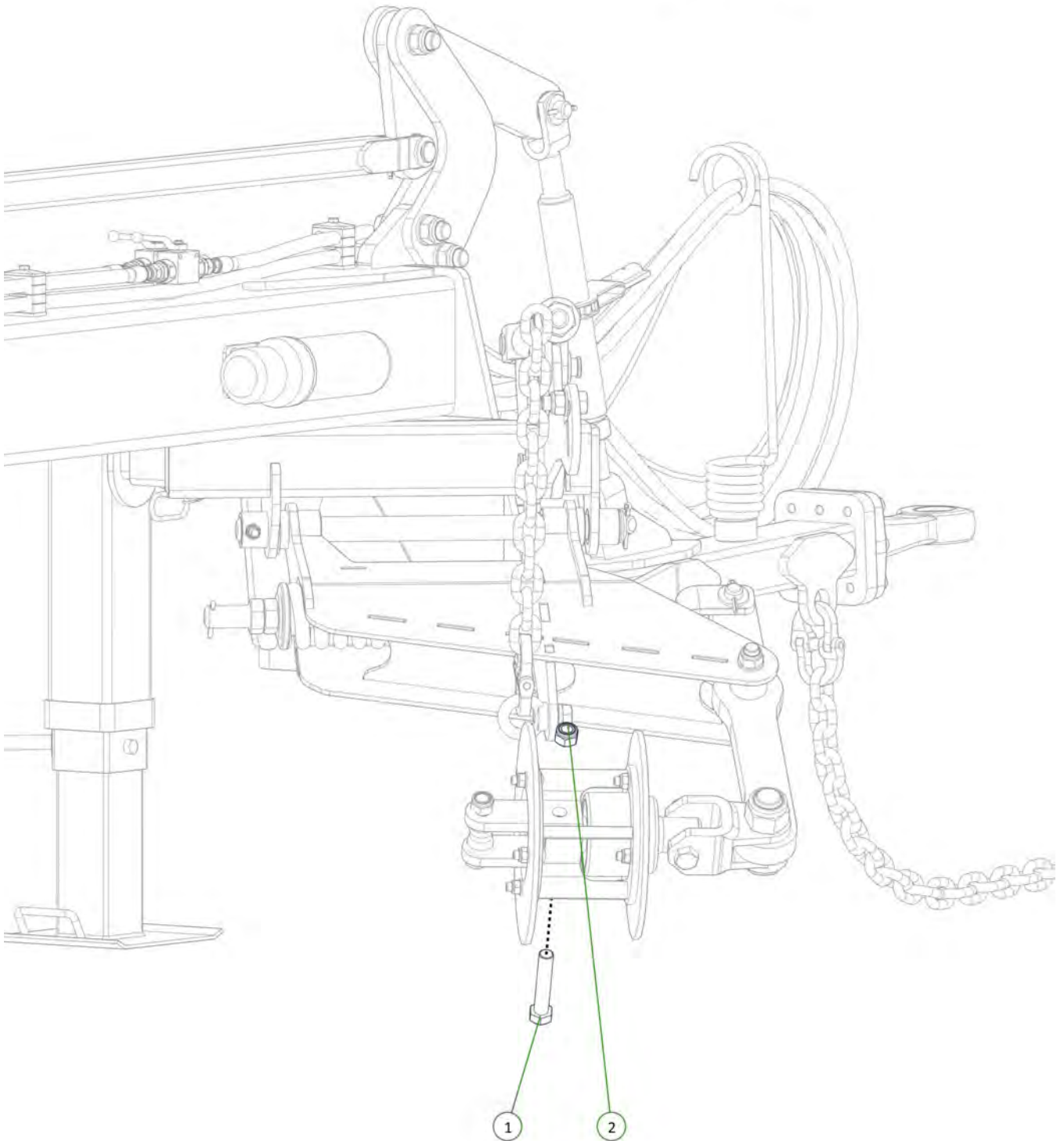
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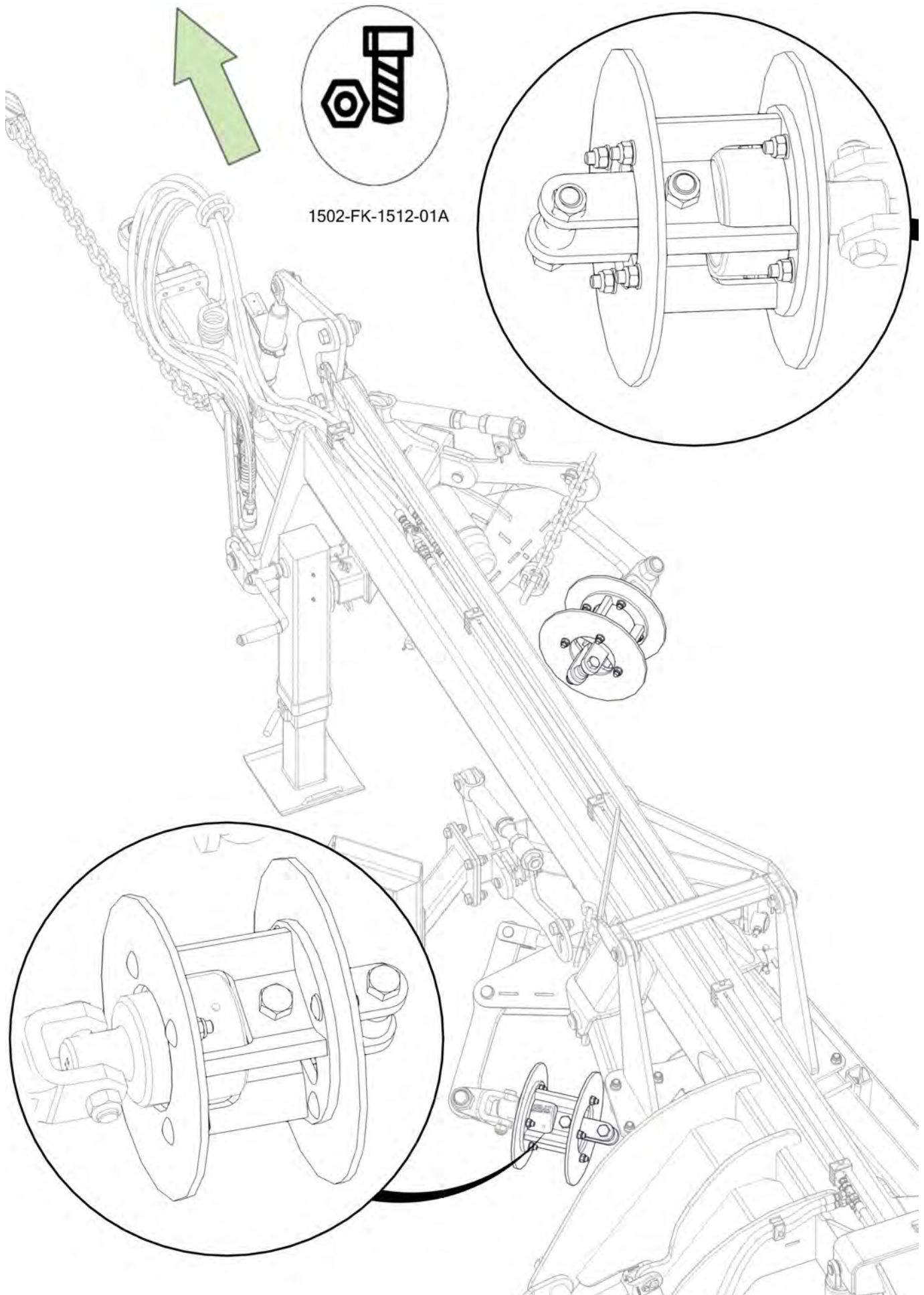


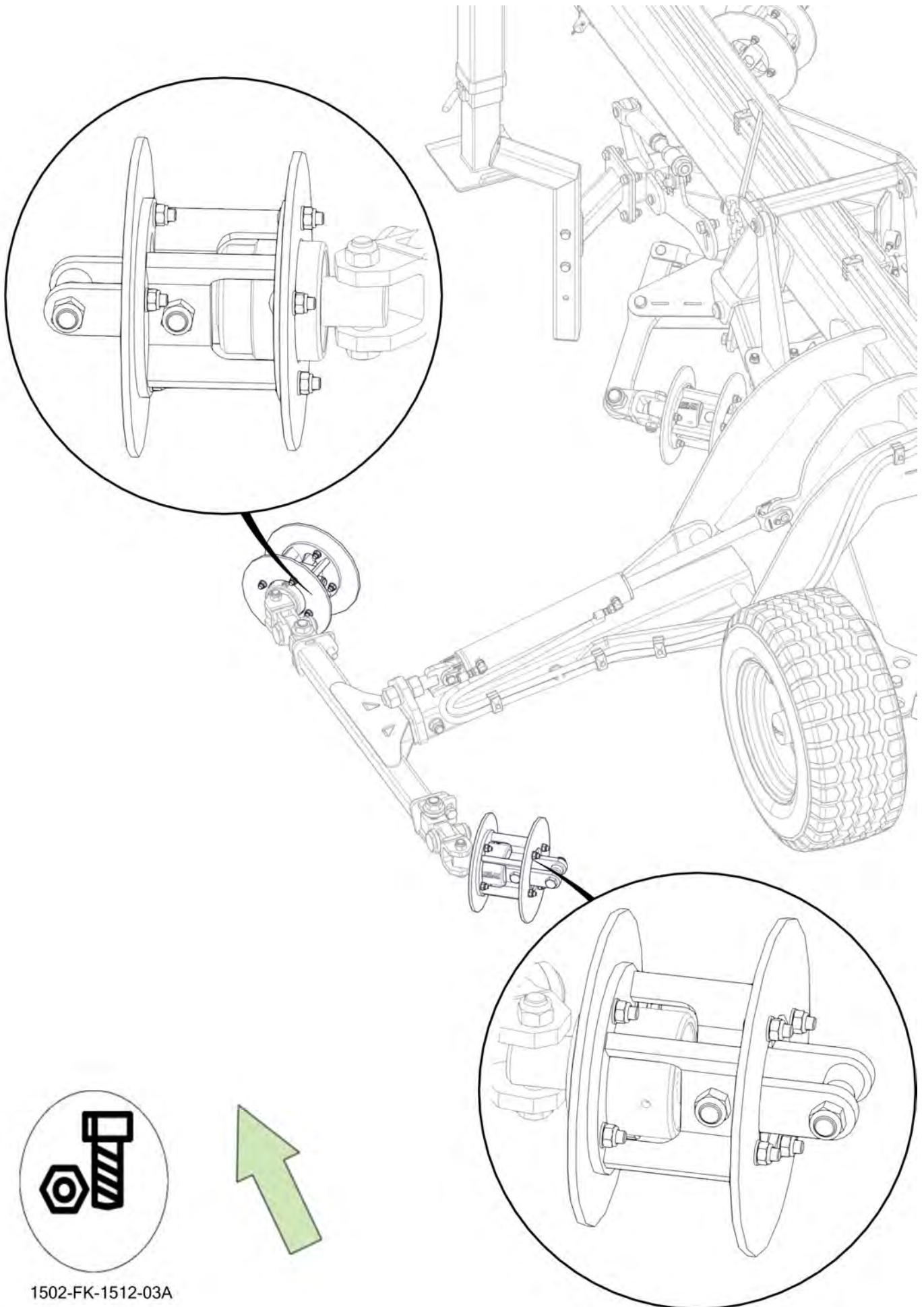
| Item No. | Description                               | Number       | Qty |
|----------|-------------------------------------------|--------------|-----|
| 1        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST | 1   |
| 2        | Nyloc Nut M20                             | 0221-NYL20   | 1   |

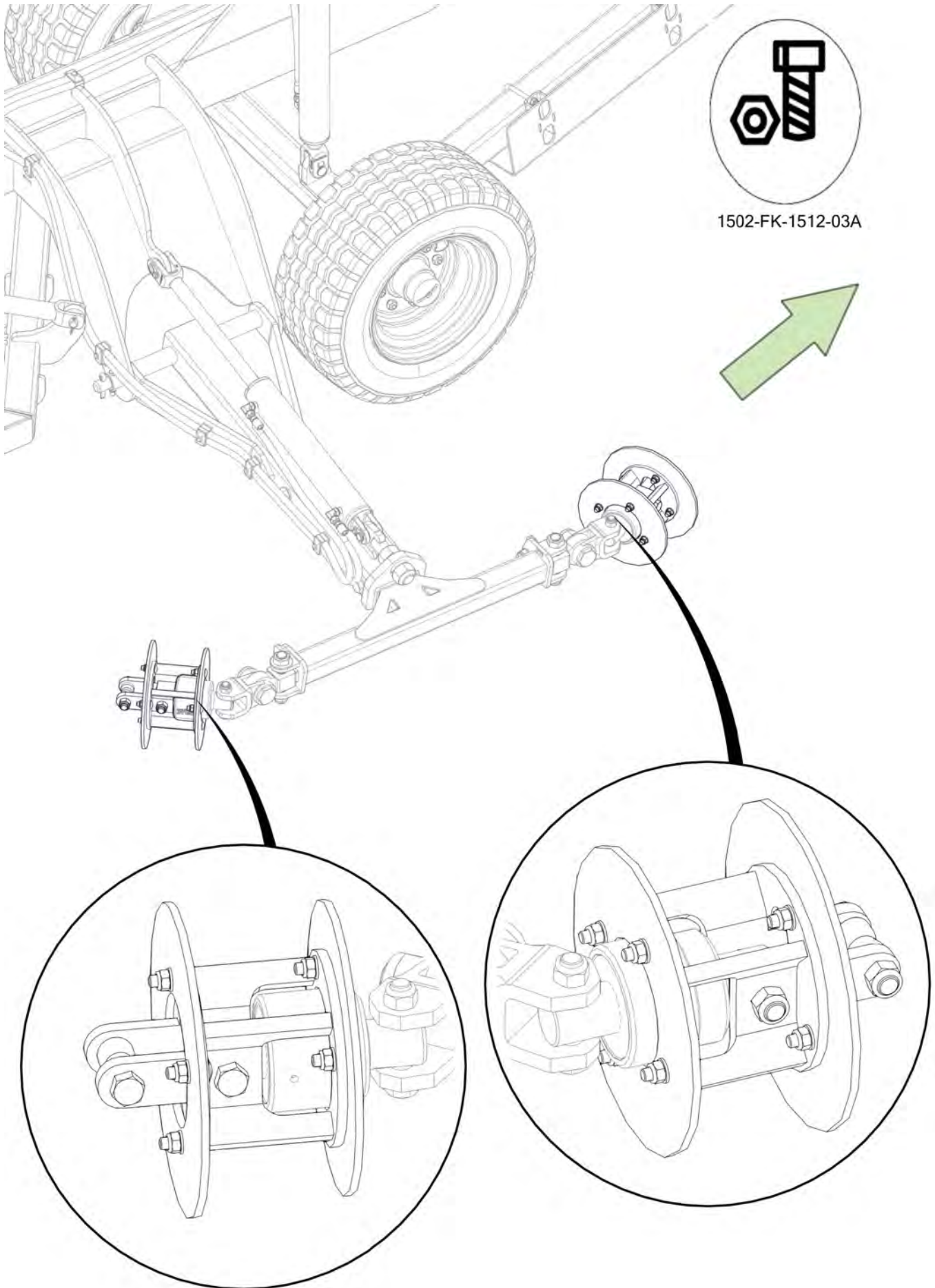


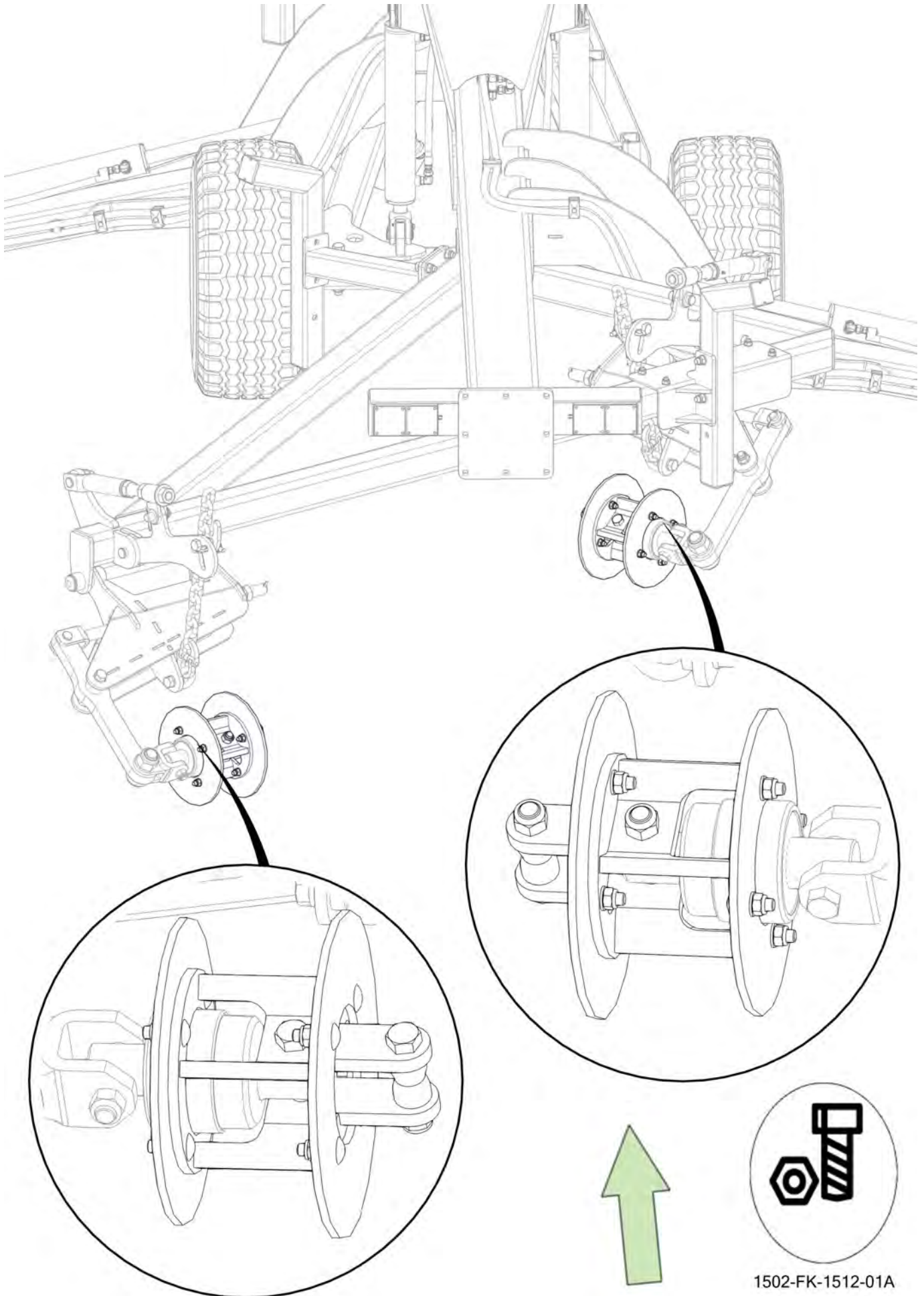
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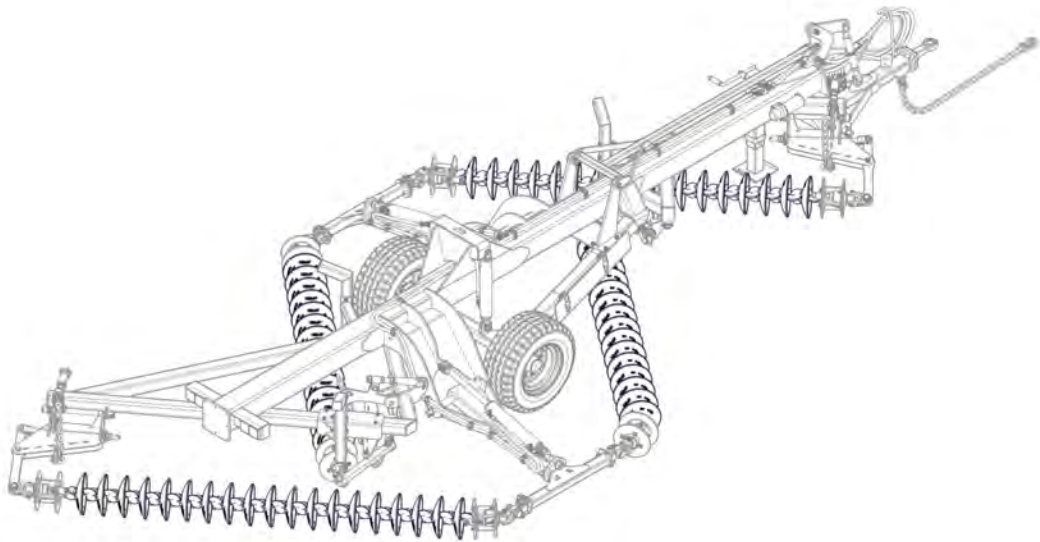








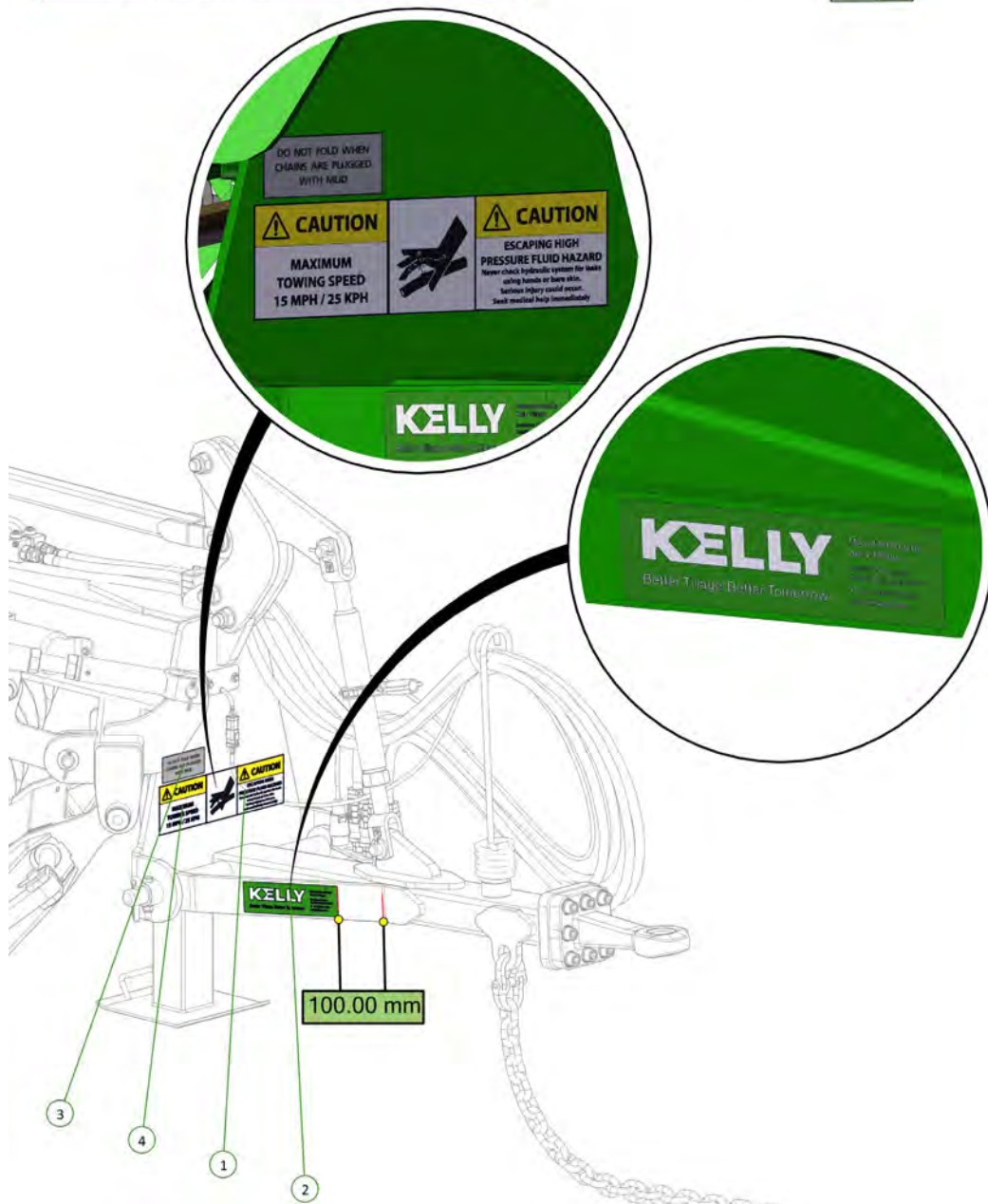




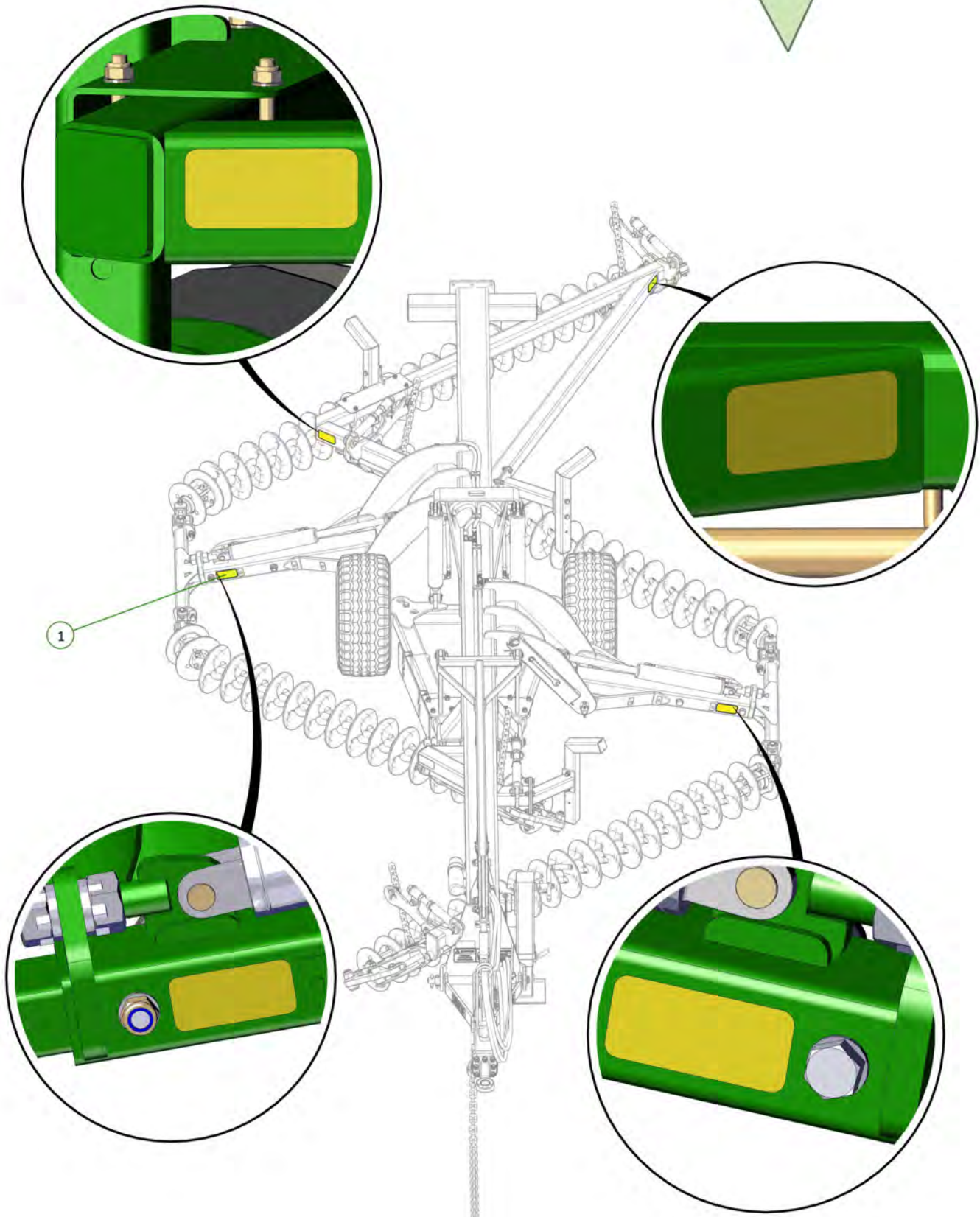
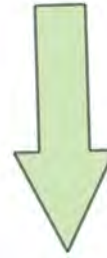


# Section 4 - Decal Application

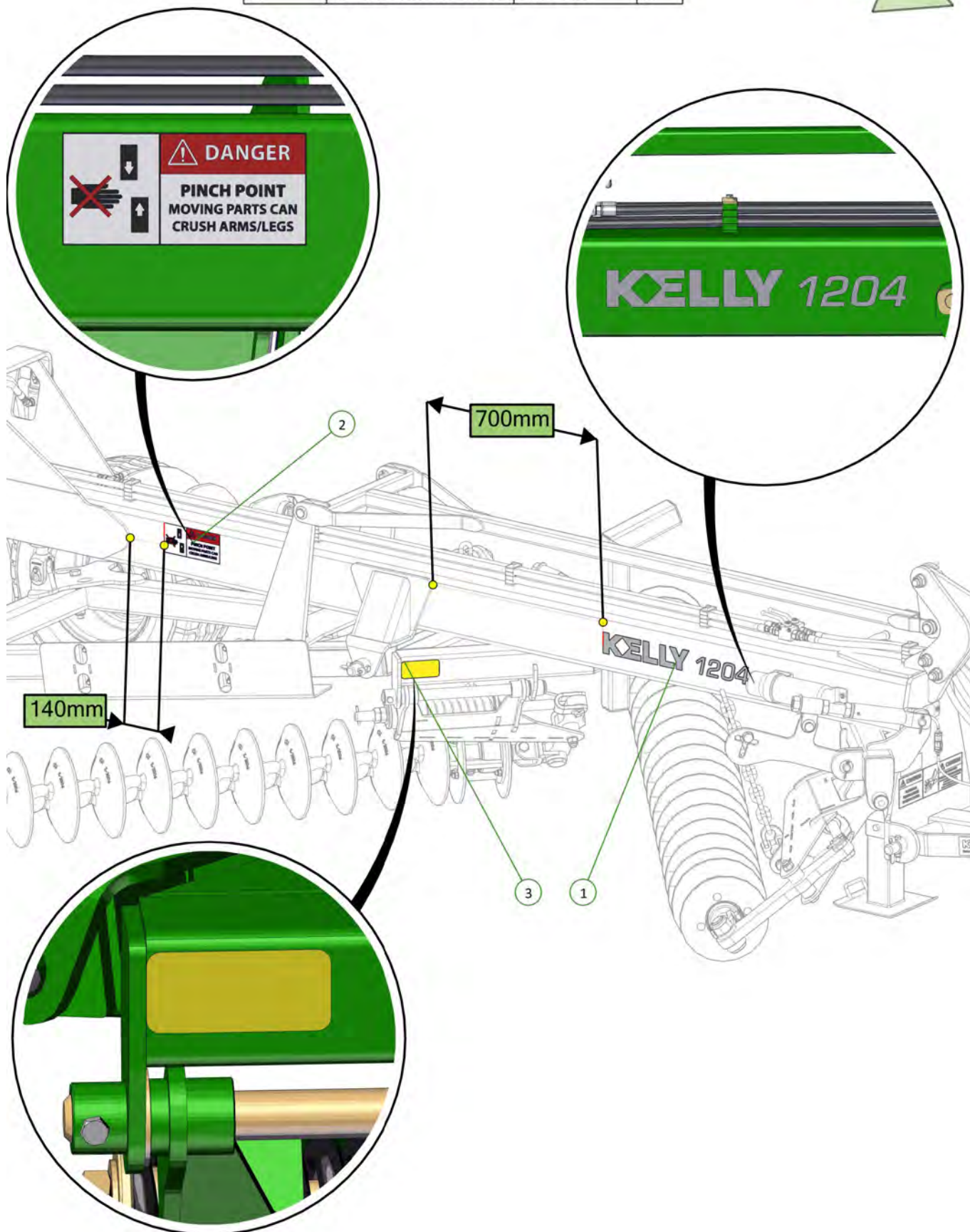
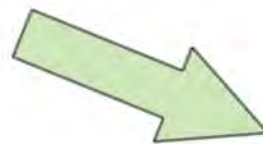
| Item No. | Description                      | Number   | Qty |
|----------|----------------------------------|----------|-----|
| 1        | Hydraulic Pressure Caution Decal | 0801-S4  | 1   |
| 2        | Kelly Tillage Decal              | 0801-S24 | 1   |
| 3        | Mud Folding Warning Decal        | 0801-S22 | 1   |
| 4        | Towing Speed Decal               | 0801-S5  | 1   |



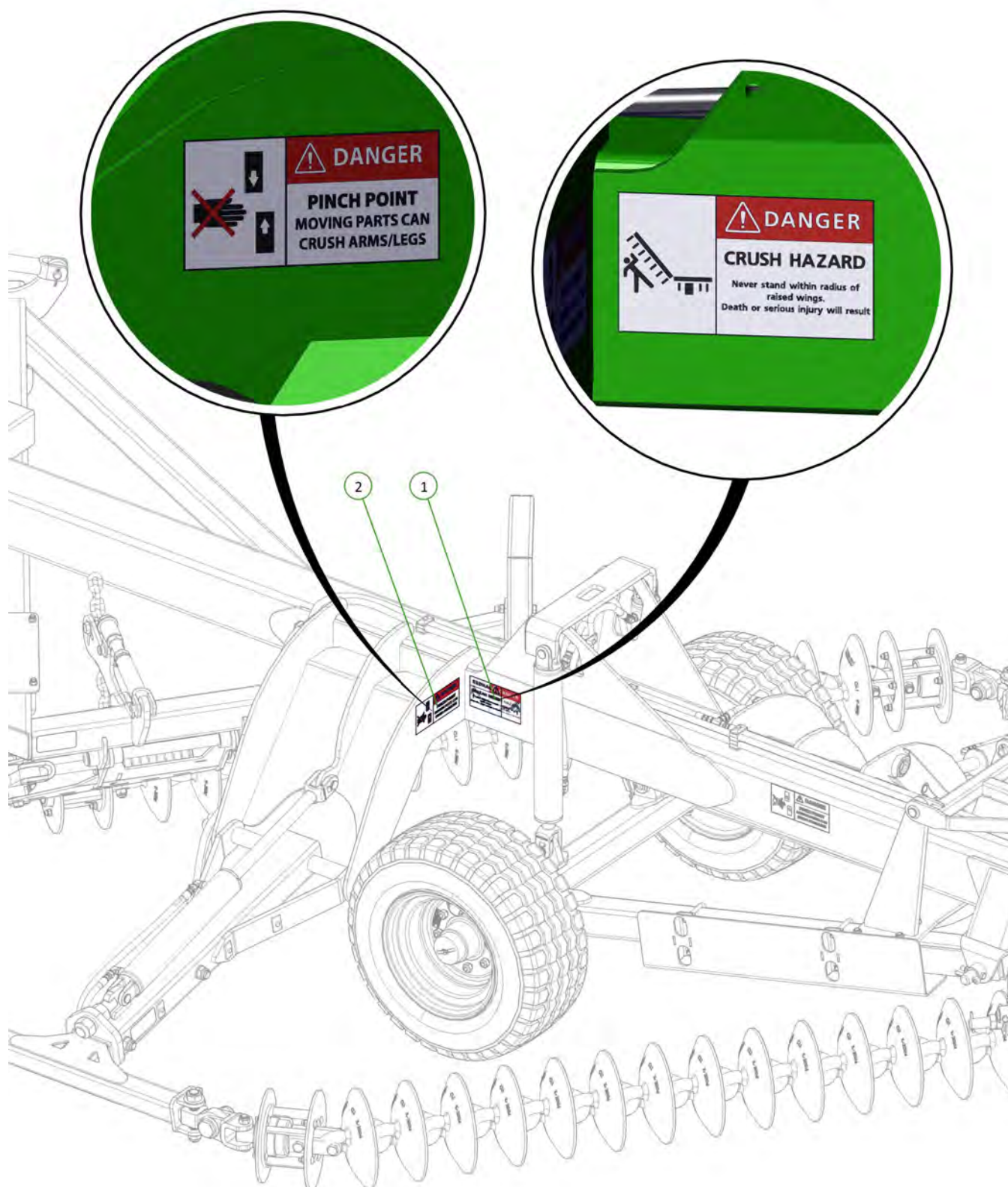
| Item No. | Description             | Number    | Qty |
|----------|-------------------------|-----------|-----|
| 1        | Yellow Reflective Decal | 0801-SYRF | 4   |



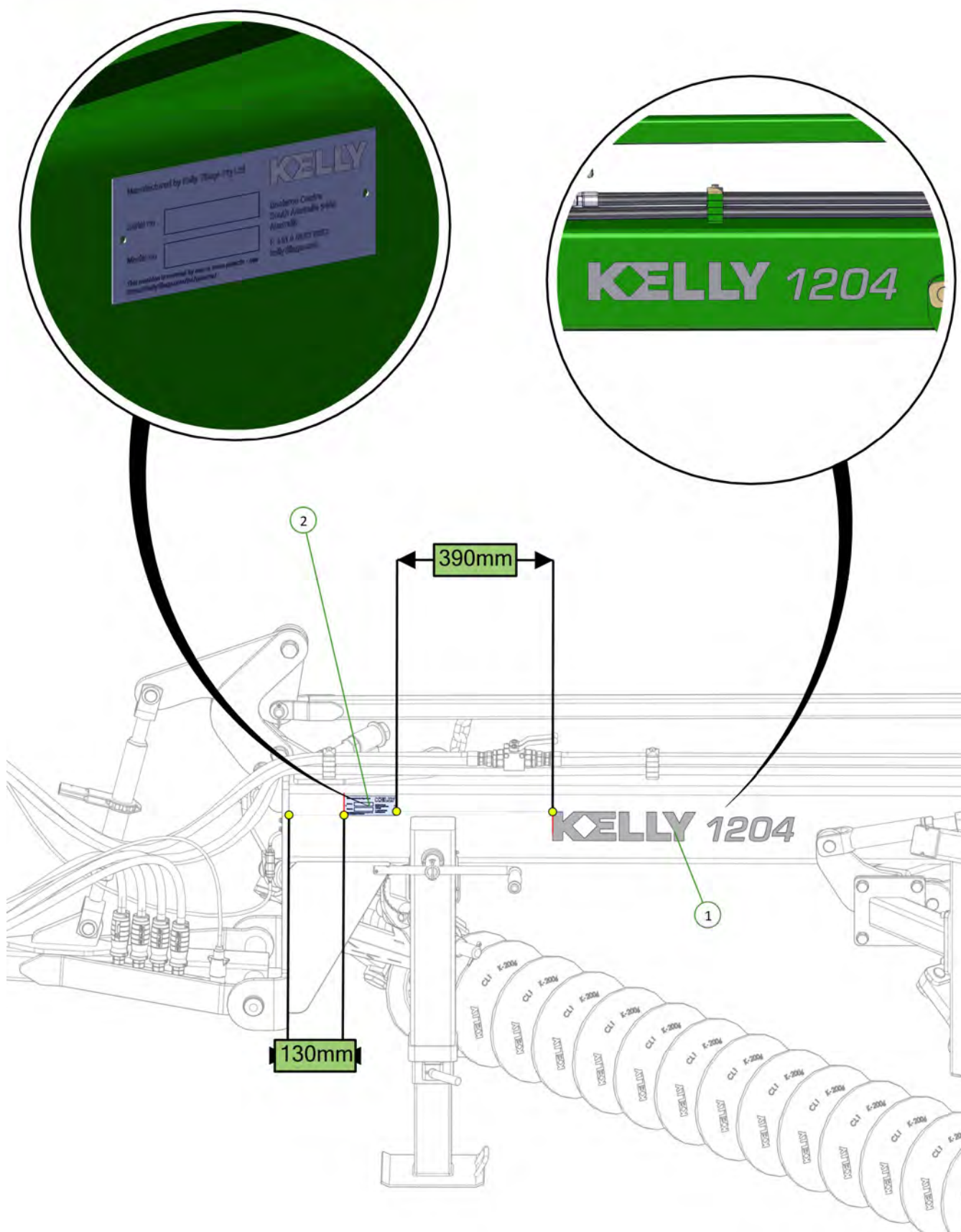
| Item No. | Description              | Number       | Qty |
|----------|--------------------------|--------------|-----|
| 1        | Kelly Tillage 1204 Decal | 0801-SKT1204 | 1   |
| 2        | Pinch Point Decal        | 0801-S17     | 1   |
| 3        | Yellow Reflective Decal  | 0801-SYRF    | 1   |



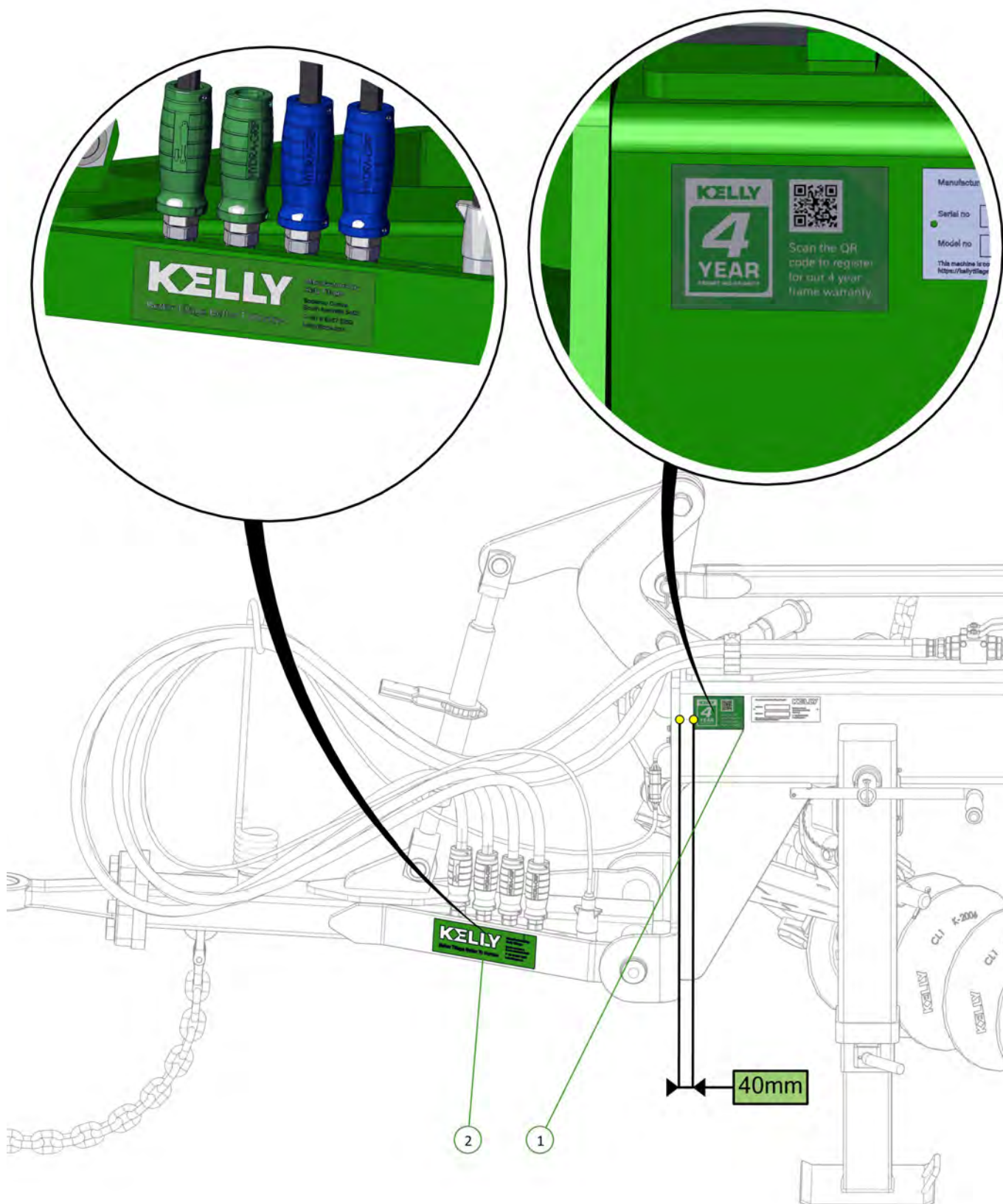
| Item No. | Description               | Number   | Qty |
|----------|---------------------------|----------|-----|
| 1        | Danger Crush Hazard Decal | 0801-S3  | 1   |
| 2        | Pinch Point Decal         | 0801-S17 | 1   |



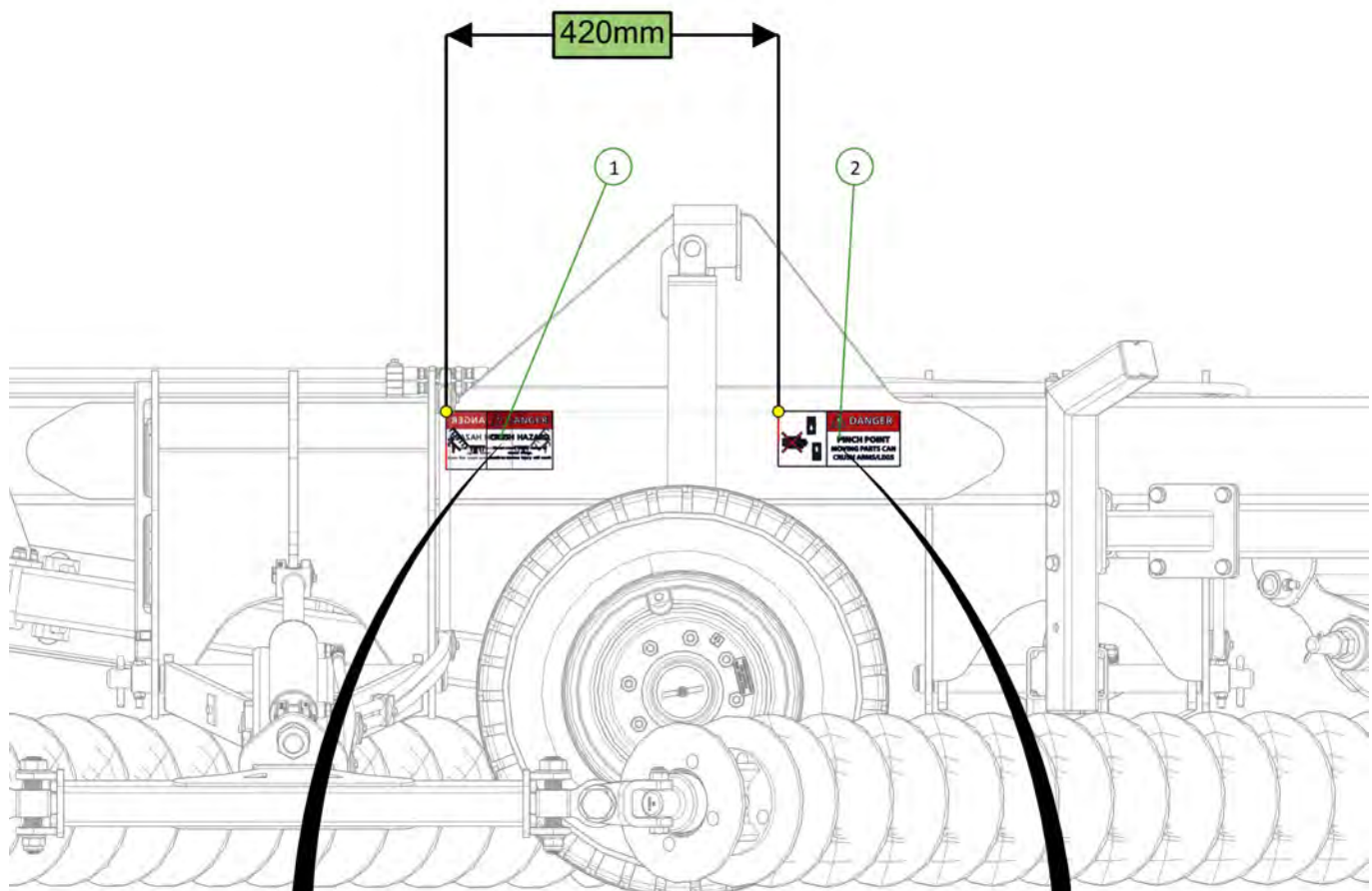
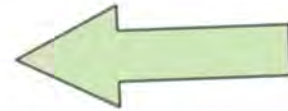
| Item No. | Description              | Number       | Qty |
|----------|--------------------------|--------------|-----|
| 1        | Kelly Tillage 1204 Decal | 0801-SKT1204 | 1   |
| 2        | Kelly Tillage Data Plate | 0801-SKTDTP  | 1   |



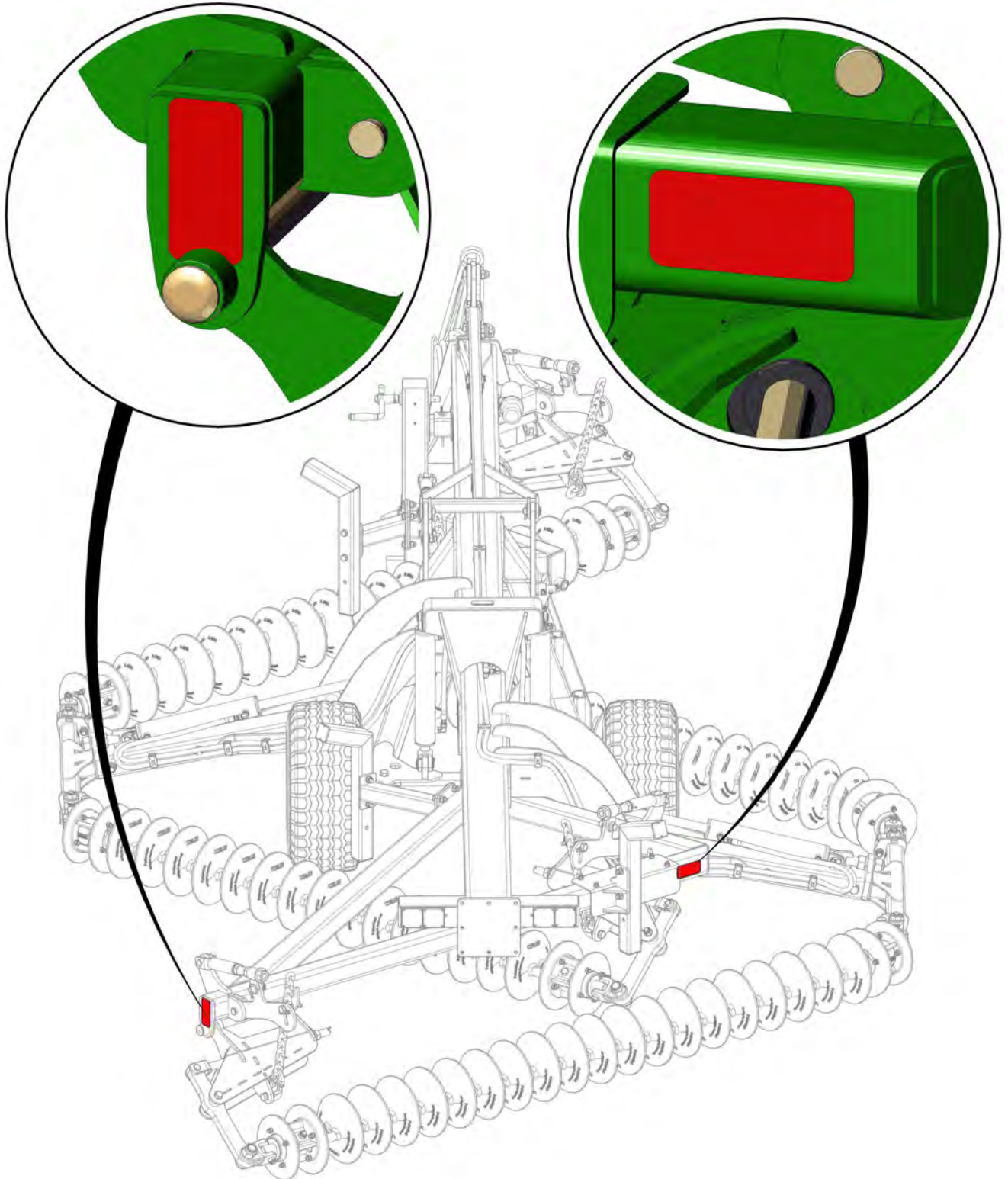
| Item No. | Description                    | Number     | Qty |
|----------|--------------------------------|------------|-----|
| 1        | 4 Year Frame Warranty Decal AU | 2001-00001 | 1   |
| 2        | Kelly Tillage Decal            | 0801-S24   | 1   |



| Item No. | Description               | Number   | Qty |
|----------|---------------------------|----------|-----|
| 1        | Danger Crush Hazard Decal | 0801-S3  | 1   |
| 2        | Pinch Point Decal         | 0801-S17 | 1   |

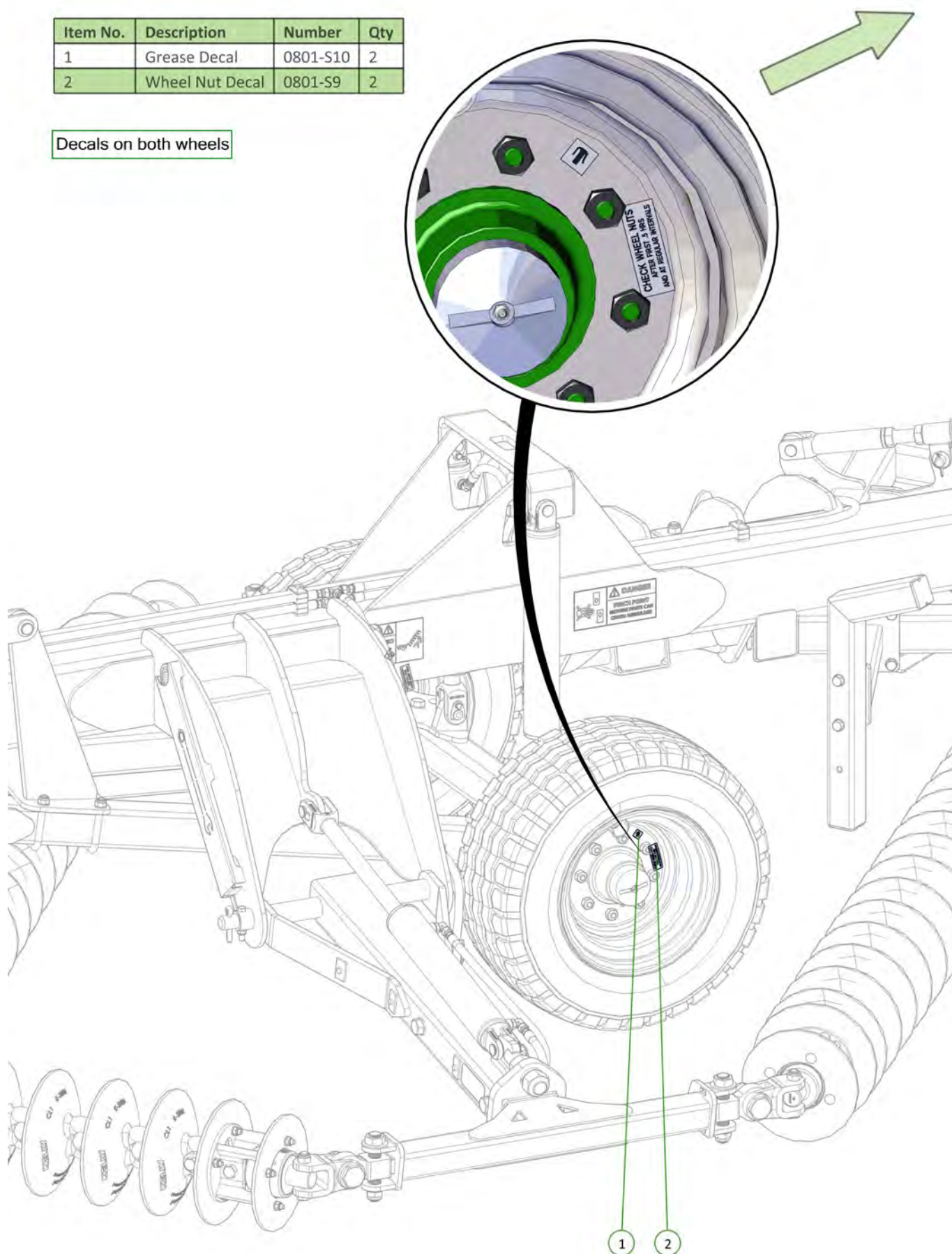


| Item No. | Description          | Number    | Qty |
|----------|----------------------|-----------|-----|
| 1        | Red Reflective Decal | 0801-SRRF | 2   |



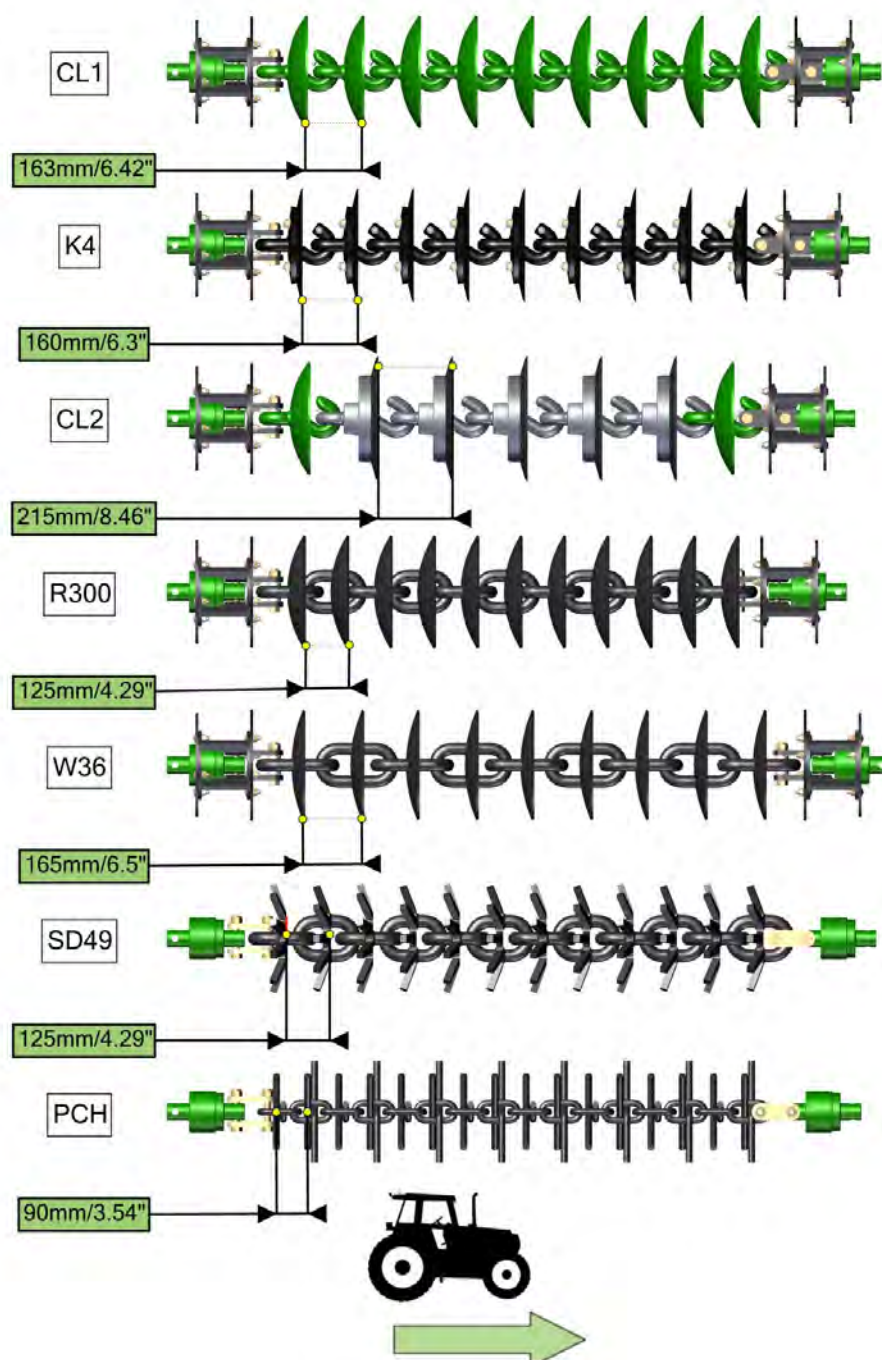
| Item No. | Description     | Number   | Qty |
|----------|-----------------|----------|-----|
| 1        | Grease Decal    | 0801-S10 | 2   |
| 2        | Wheel Nut Decal | 0801-S9  | 2   |

Decals on both wheels



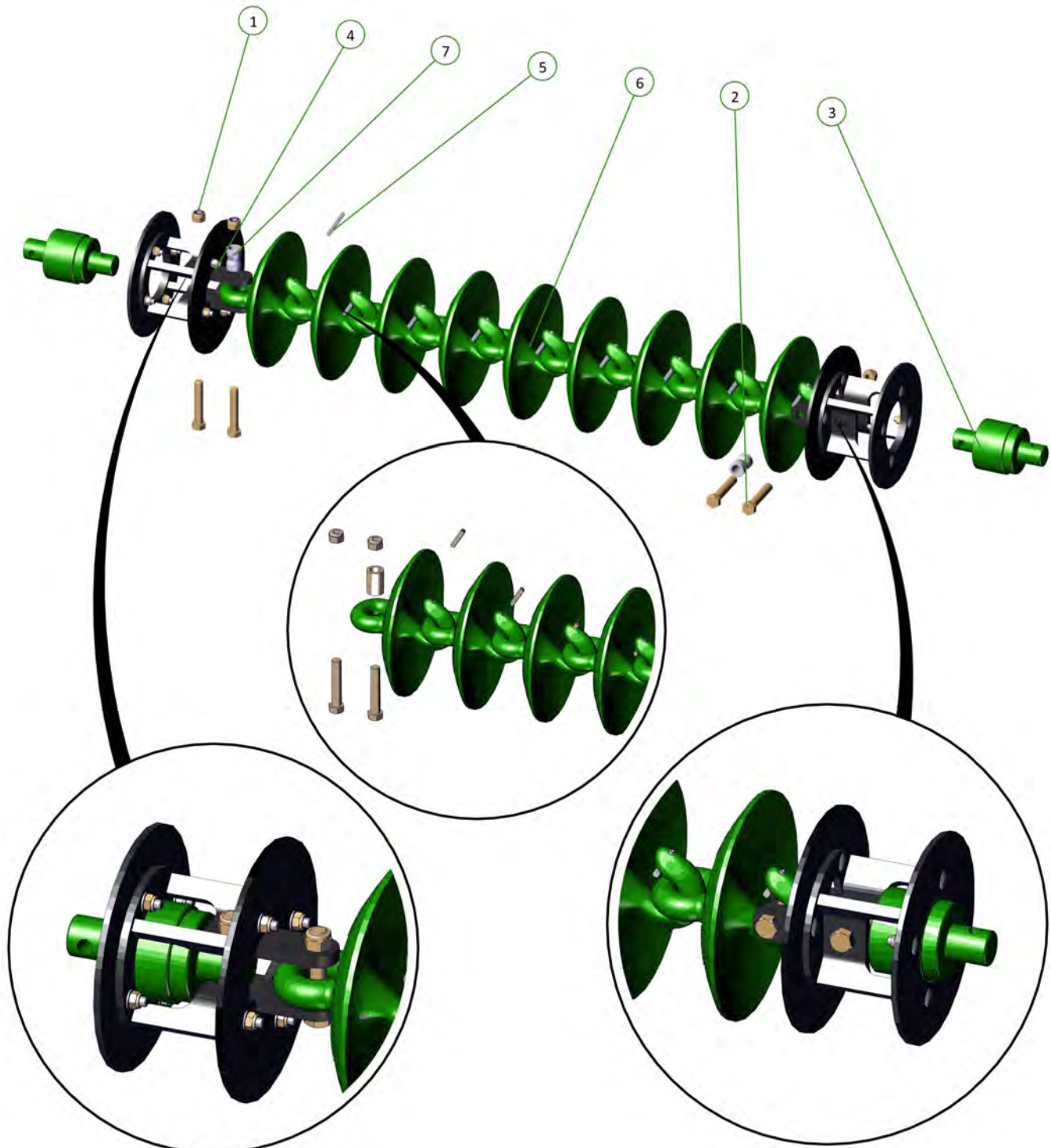
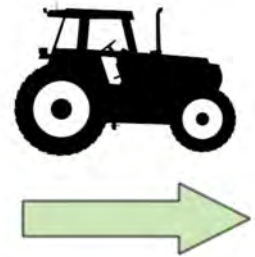


# Section 5 - Chain Assembly



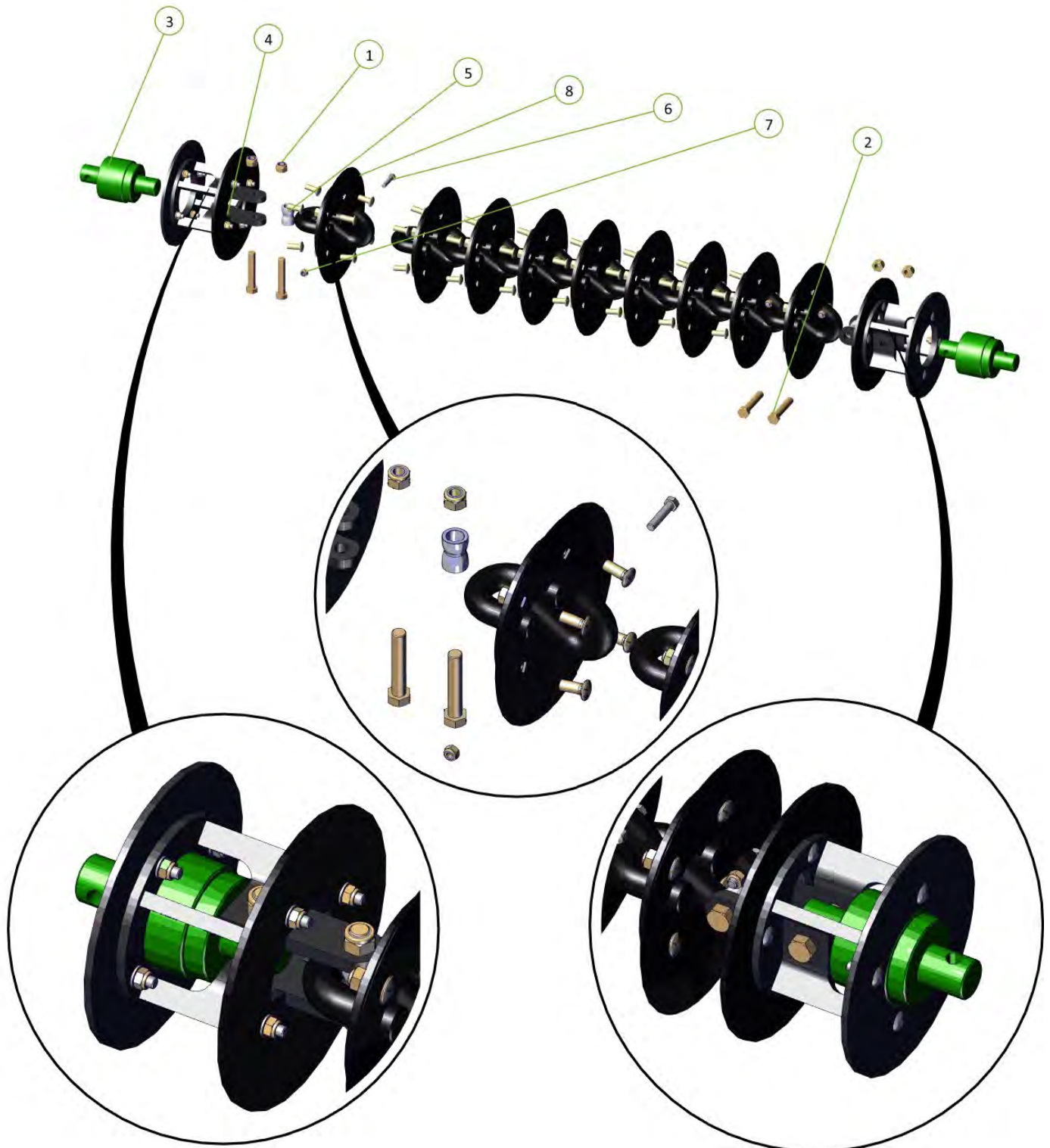
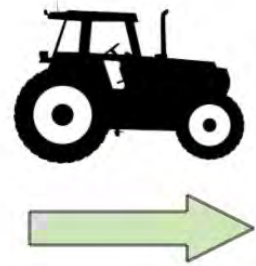
# CL1 Disc Chain

| Item No. | Description                               | Number       |
|----------|-------------------------------------------|--------------|
| 1        | Nyloc Nut M20                             | 0221-NYL20   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST |
| 3        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  |
| 4        | Tapered Chain End Assembly                | 0810-45A     |
| 5        | Roll Pin Zinc Plated 3/8" x 3"            | 0262-3-8X3   |
| 6        | CL1 Disc Chain Link                       | 0803-CL1     |
| 7        | Disc Chain Spacer                         | 0801-253755  |



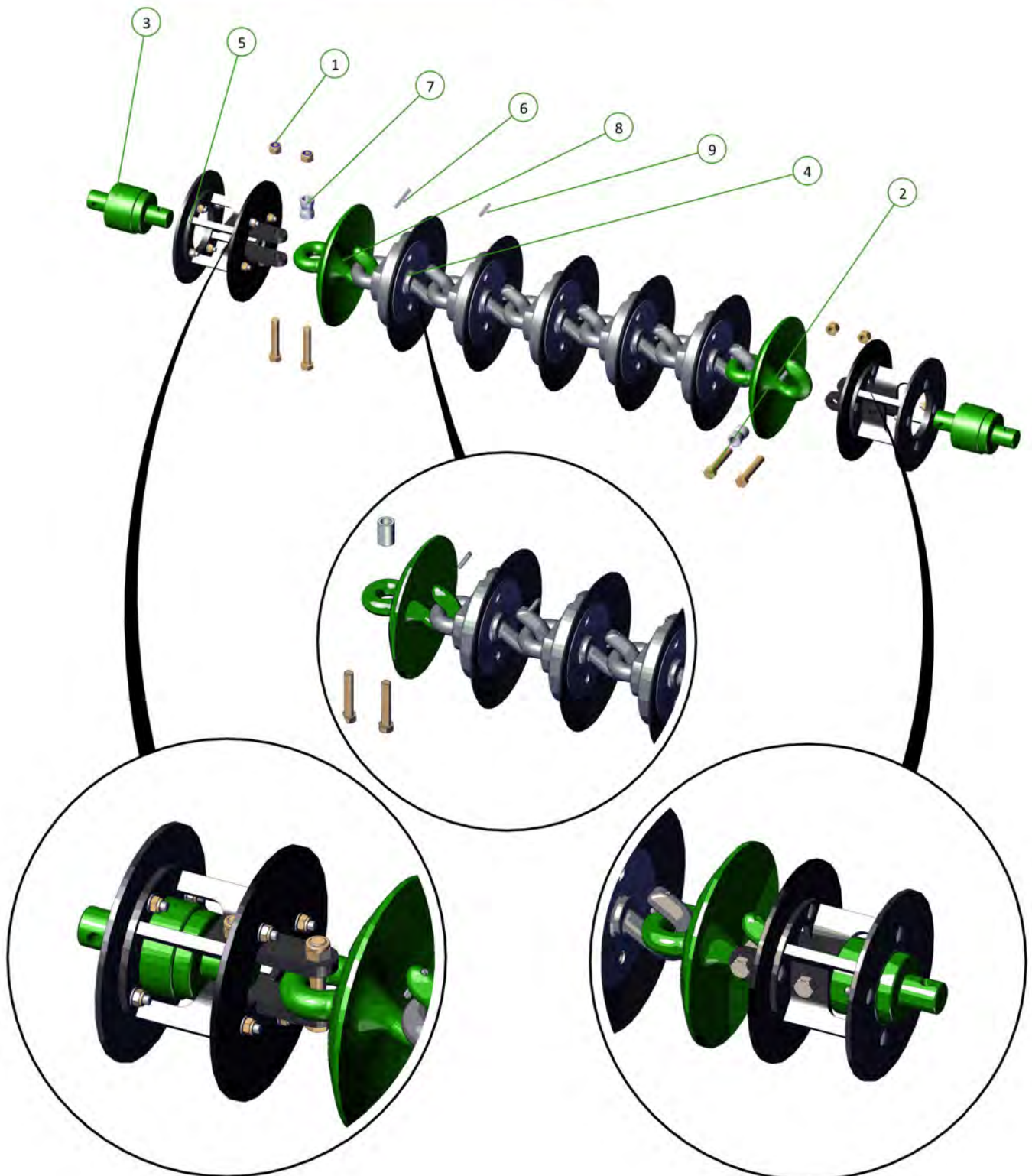
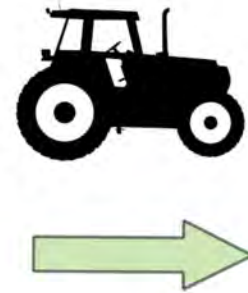
# K4 Disc Chain

| Item No. | Description                               | Number       |
|----------|-------------------------------------------|--------------|
| 1        | Nyloc Nut M20                             | 0221-NYL20   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST |
| 3        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  |
| 4        | Tapered Chain End Assembly                | 0810-45A     |
| 5        | Disc Chain Spacer                         | 0801-253755  |
| 6        | M12 x 55 Class 8.8 ZP Bolt                | 0211-1255    |
| 7        | Nyloc Nut M12                             | 0221-NYL12   |
| 8        | K4 Disc Assembly                          | 0803-K4      |



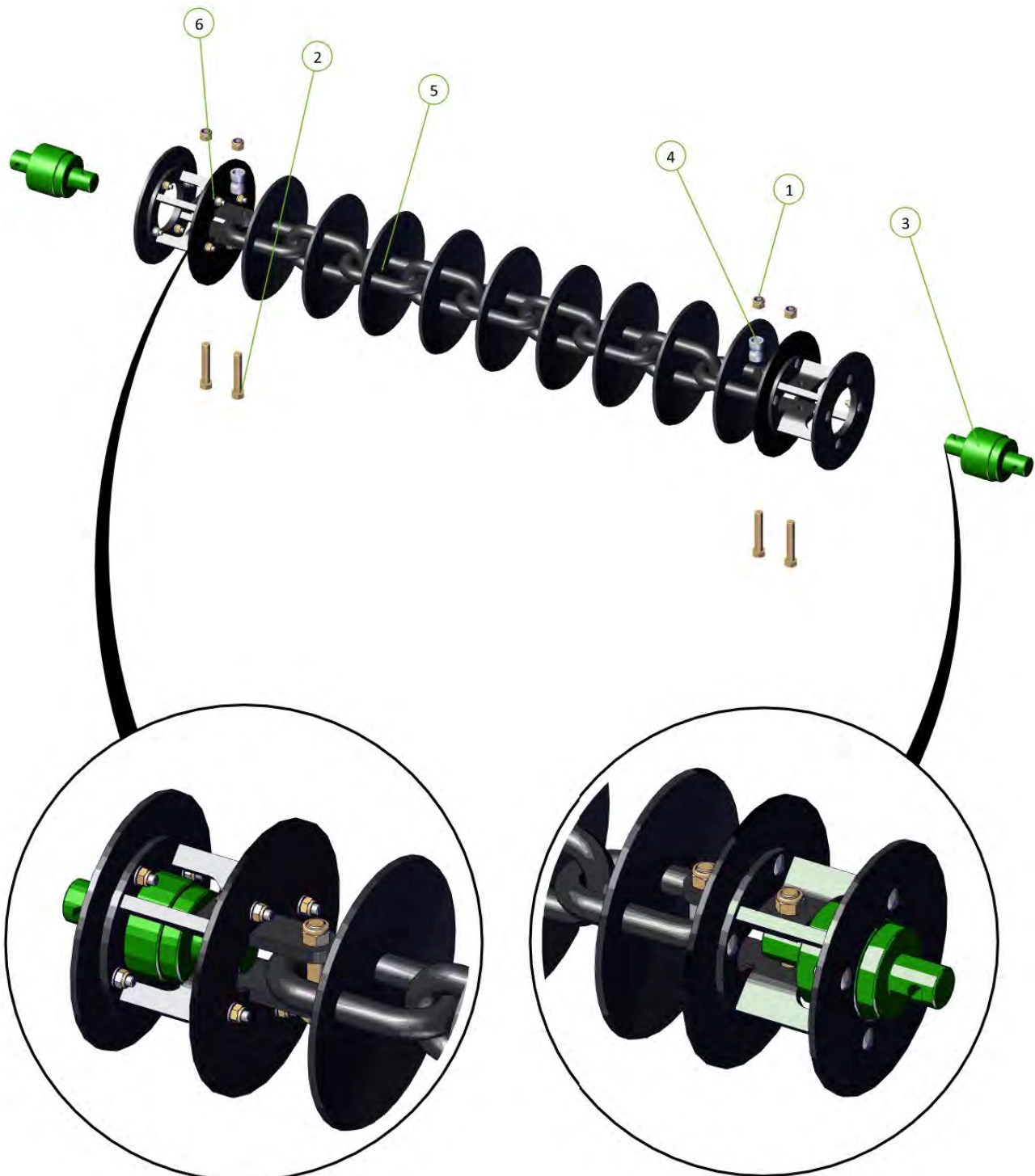
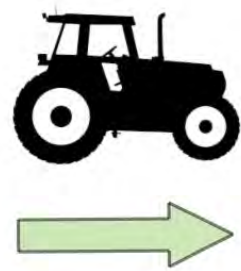
# CL2 Disc Chain

| Item No. | Description                               | Number       |
|----------|-------------------------------------------|--------------|
| 1        | Nyloc Nut M20                             | 0221-NYL20   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST |
| 3        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  |
| 4        | CL2-Link Assembly                         | 0803-CL2     |
| 5        | Tapered Chain End Assembly                | 0810-45A     |
| 6        | Roll Pin Zinc Plated 3/8" x 3"            | 0262-3-8X3   |
| 7        | Disc Chain Spacer                         | 0801-253755  |
| 8        | CL1 Disc Chain Link                       | 0803-CL1     |
| 9        | Roll Pin Zinc Plated 3/8" x 2"            | 0262-3-8X2   |



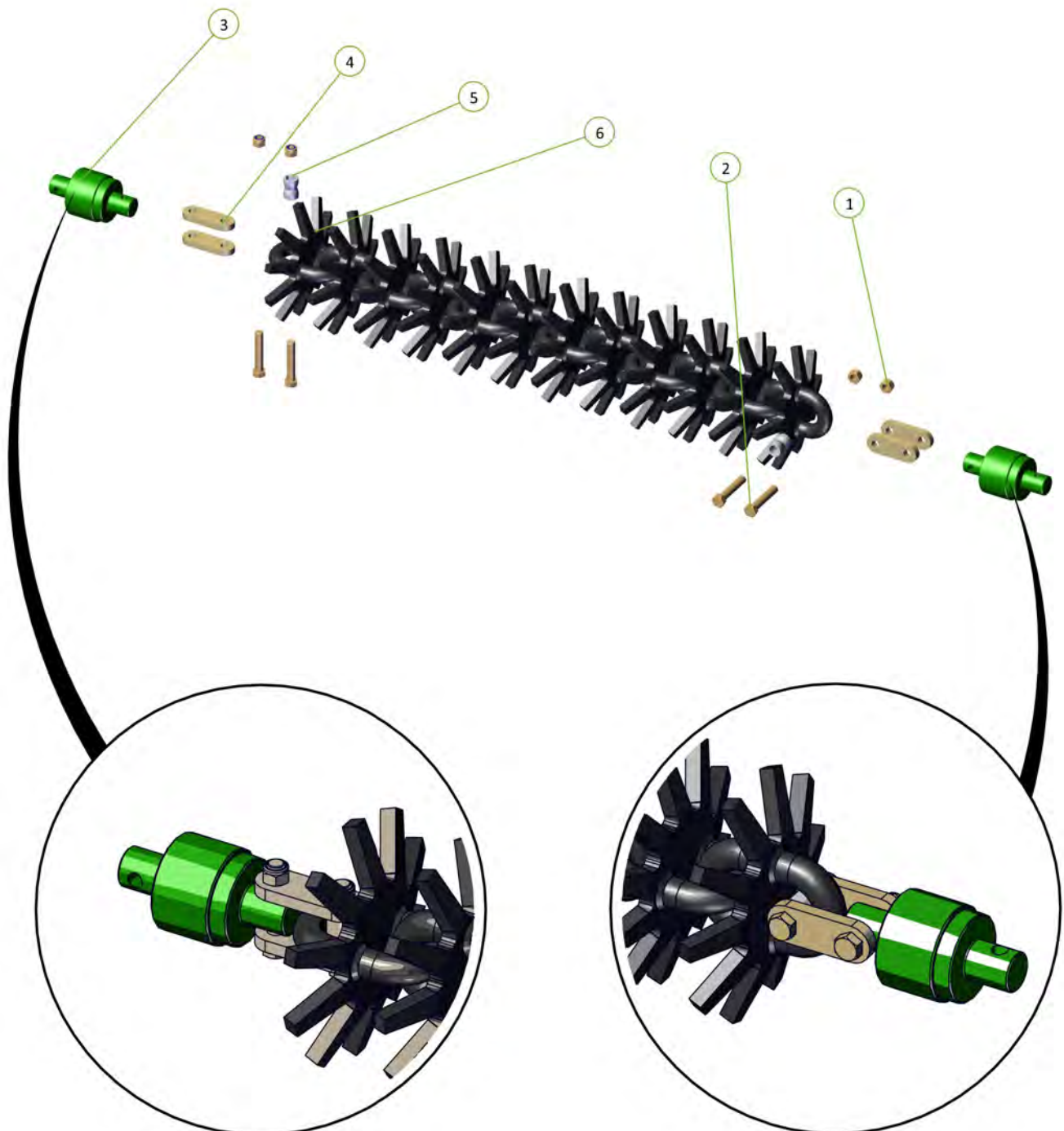
## W36 Disc Chain

| Item No. | Description                               | Number       |
|----------|-------------------------------------------|--------------|
| 1        | Nyloc Nut M20                             | 0221-NYL20   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST |
| 3        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  |
| 4        | Disc Chain Spacer                         | 0801-253755  |
| 5        | W36/25 Chain Link                         | 0803-W36     |
| 6        | Tapered Chain End Assembly                | 0810-45A     |



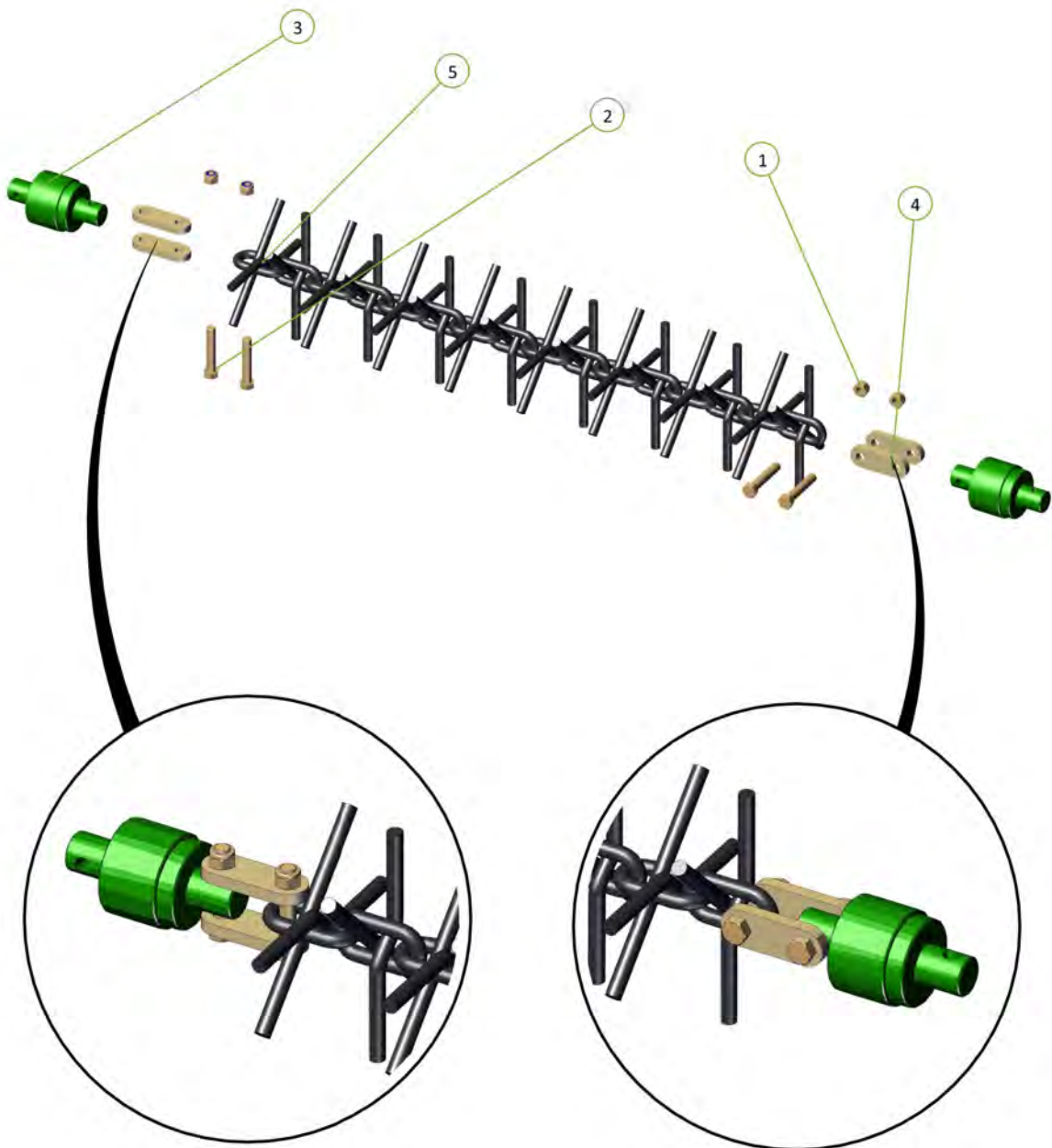
# Spike Disc Chain

| Item No. | Description                               | Number       |
|----------|-------------------------------------------|--------------|
| 1        | Nyloc Nut M20                             | 0221-NYL20   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST |
| 3        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  |
| 4        | Tie Plate For 20mm Bolt                   | 0800-83.2    |
| 5        | Disc Chain Spacer                         | 0801-253755  |
| 6        | 10 Spike Disc Chain 49/27/5               | 0803-SD49    |



# Prickle Chain

| Item No. | Description                               | Number       |
|----------|-------------------------------------------|--------------|
| 1        | Nyloc Nut M20                             | 0221-NYL20   |
| 2        | M20 x 110 Class 10.9 ZP Short Thread Bolt | 0211-20110ST |
| 3        | 20mm Bolt Swivel Unit                     | 0802-PCHB55  |
| 4        | 0800-83.2                                 | 0800-83.2    |
| 5        | Prickle Chain                             | 0803-PCH     |





# Section 6 - Chain Operation and Correct Setup

## Importance of good chain setup

### Operational

Chain tension is critical to achieve a smooth and level seedbed. A correctly tensioned, monitored and maintained chain will deliver the results you need. Incorrect chain tension can lead to:

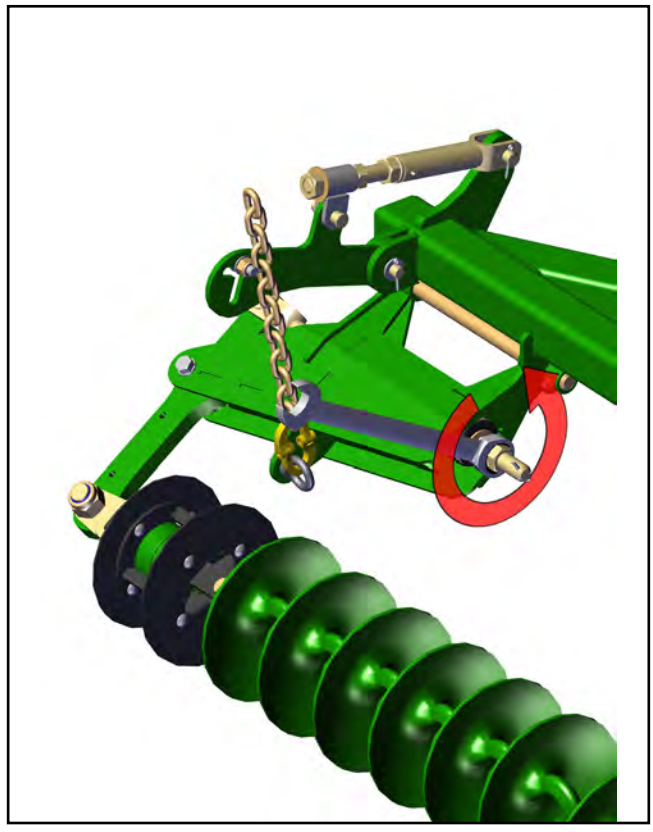
- Uneven results across the cut width of the machine
- Uneven ridges and furrows being created
- Uneven weed control
- Uneven residue incorporation
- Premature chain link wear

**A correctly adjusted machine will not cause this phenomenon.**

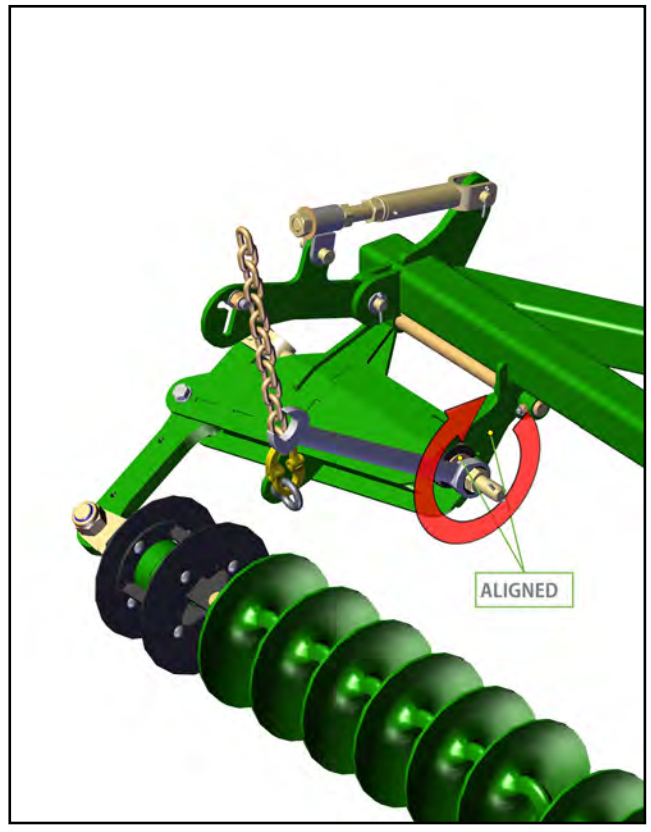
## Chain tension

1. Loosen the lock nut on the module tension rod.
2. For correct chain tension, tighten the adjusting nuts clockwise until the outside face of the spring retaining washer is flushed with the face of the tension body. Spring length of 330mm / 1' 1".
3. If more than 150mm / 5-29/32 "of tensioner thread is visible, then remove one link from the chain set to maintain correct chain tension.
4. Retighten the lock nut.

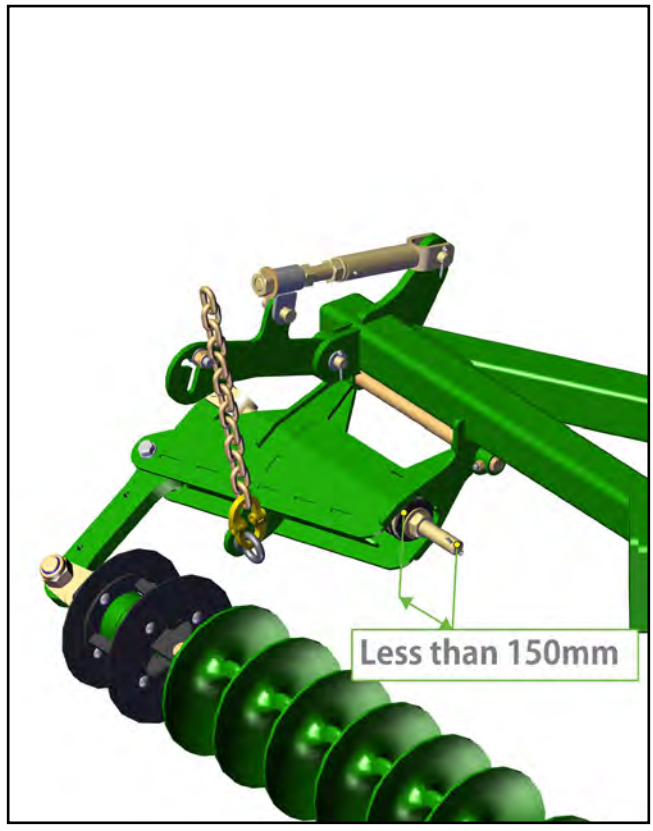
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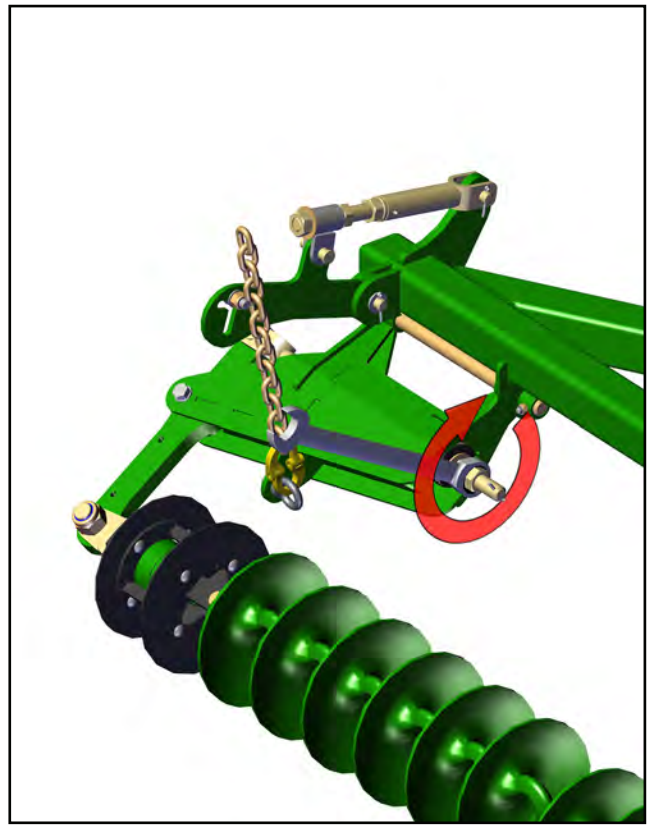
2



3



4

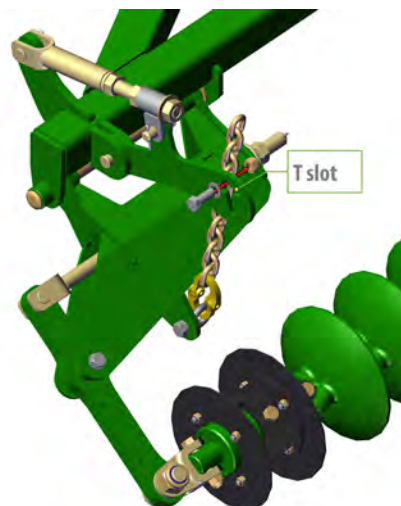


## Chain height adjustment

### Chain Tensioners

1. Where a large amount of adjustment is required remove the locking bolt and slide the chain through the T slot then replace locking bolt and fine tune height with threaded adjustor.
2. Using the supplied spanner, loosen the lock nut on the height adjustor thread.
3. Using the supplied spanner, adjust the height.
4. Tighten the lock nut.

1



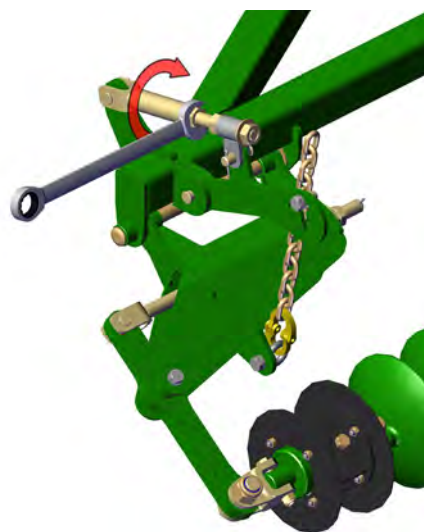
2



3



4





# Section 7 - Specifications

## Operating speed

| Recommended operating speeds in normal conditions with all chain types |                         |
|------------------------------------------------------------------------|-------------------------|
| Operating / working speed                                              | (5-8 mph) / (8-12 km/h) |
| Transporting / towing speed                                            | (16 mph) / (25 km/h)    |

## Tyre pressure

| Tyre size  | Ply | KPA | PSI |
|------------|-----|-----|-----|
| 13.0/55-16 | 14  | 250 | 36  |

## 1204 specifications

|                          |                                |
|--------------------------|--------------------------------|
| <b>Model 1204 Set at</b> | <b>3.5m/11' 5-25/32"</b>       |
| Operating width          | 3.79m / 12' 5-7/32"            |
| Transport width          | 2.31m / 7' 6-15/16"            |
| Transport height         | 2.17m / 7' 1-7/16"             |
| Transport length         | 8.98m / 29' 5-17/32"           |
| <b>Model 1204 Set at</b> | <b>4m/13' 1-15/32"</b>         |
| Operating width          | 4.29m / 14' 29/32"             |
| Transport width          | 2.31m / 7' 6-15/16"            |
| Transport height         | 2.42m / 7' 11-9/32"            |
| Transport length         | 8.98m / 29' 5-17/32"           |
| <b>Model 1204 Set at</b> | <b>1204 - 4.5m/14' 9-5/32"</b> |
| Operating width          | 4.80m / 15' 8-31/32"           |
| Transport width          | 2.34m / 7' 8-1/8"              |
| Transport height         | 2.66m / 8' 8-23/32"            |
| Transport length         | 8.95m / 29' 4-3/8"             |

## Disc chain lengths and Quantities

| 1204 Model |             | Length                | K4 | CL1 | W36 | R300 | SD49 | PCH |
|------------|-------------|-----------------------|----|-----|-----|------|------|-----|
| 3.5m       | Front Left  | 2.760m / 9' 21/32"    | 17 | 17  | 16  | 22   | 22   | 31  |
|            | Front Right | 2.373m / 7' 9-7/16"   | 15 | 14  | 14  | 19   | 19   | 26  |
|            | Rear Right  | 3.124m / 10' 3"       | 20 | 19  | 18  | 25   | 25   | 35  |
|            | Rear Left   | 2.472m / 8' 1-5/16"   | 15 | 15  | 14  | 20   | 20   | 27  |
| 4m         | Front Left  | 2.998m / 9' 10-1/32"  | 19 | 18  | 17  | 24   | 24   | 33  |
|            | Front Right | 2.609m / 8' 6-23/32"  | 16 | 16  | 15  | 21   | 21   | 29  |
|            | Rear Right  | 3.361m / 11' 5/16"    | 21 | 20  | 20  | 27   | 27   | 37  |
|            | Rear Left   | 2.710m / 8' 10-11/16" | 17 | 16  | 16  | 22   | 22   | 30  |
| 4.5m       | Front Left  | 3.205m / 10' 6-3/16"  | 20 | 20  | 19  | 25   | 25   | 35  |
|            | Front Right | 2.815m / 9' 2-13/16"  | 18 | 17  | 16  | 22   | 22   | 31  |
|            | Rear Right  | 3.568m / 11' 8-15/32" | 22 | 22  | 21  | 28   | 28   | 39  |
|            | Rear Left   | 2.920m / 9' 6-31/32"  | 18 | 18  | 17  | 23   | 23   | 32  |

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

K4 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

W36 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

Spiked 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

**Scan the following QR code to open the removing a welded disc chain video.**



# Notes

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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