

# 6m

Kelly 

## Tillage System 6m Assembly Manual

Revision A - August 2016

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.

## **Australia**

### **Kelly Engineering**

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**Phone:** + 61 8 8667 2253

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**Website:** [www.kellyengineering.com.au](http://www.kellyengineering.com.au)

## **United States**

### **Kelly Engineering**

Website: [www.kellyharrows.com](http://www.kellyharrows.com)

## **Spare Parts**

### **Hood & Company Inc**

**Spring field MO**

**Phone:** 417 865 2100

**Fax:** 417 865 2105

**Email:** [hoodco@hoodco.com](mailto:hoodco@hoodco.com)

# Contents

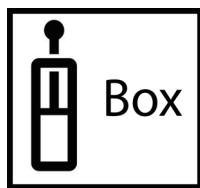
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This symbol indicates which bag the relevant fastners are in



This symbol indicates which bag the relevant hydraulics are in



This symbol indicates the hydraulics are in a box



This symbol indicates which way the machine is travelling

# **Section 1**

## Unpacking



# Unpacking

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



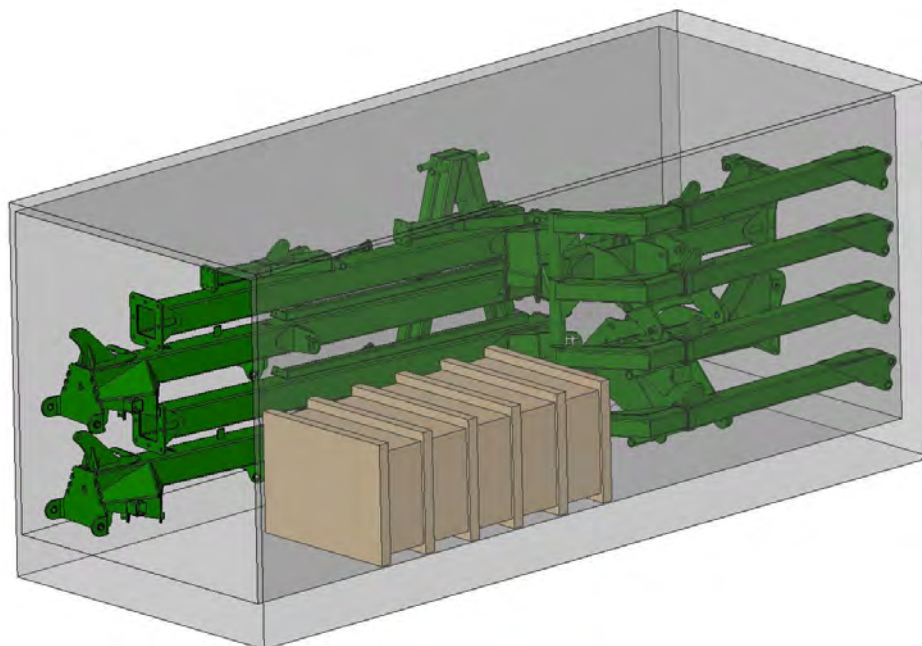
- Before unloading any loads please inspect exterior for damage

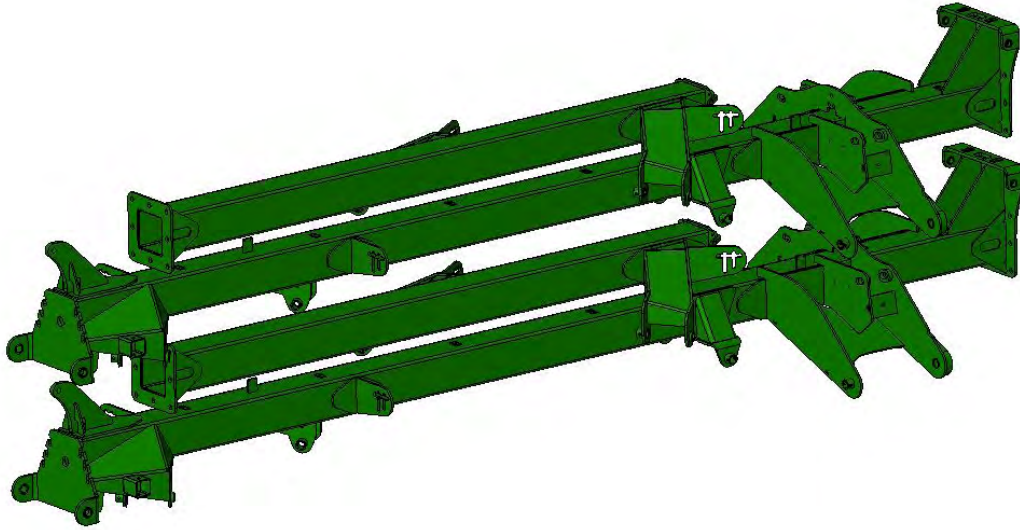


## CAUTION

**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).





### **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**

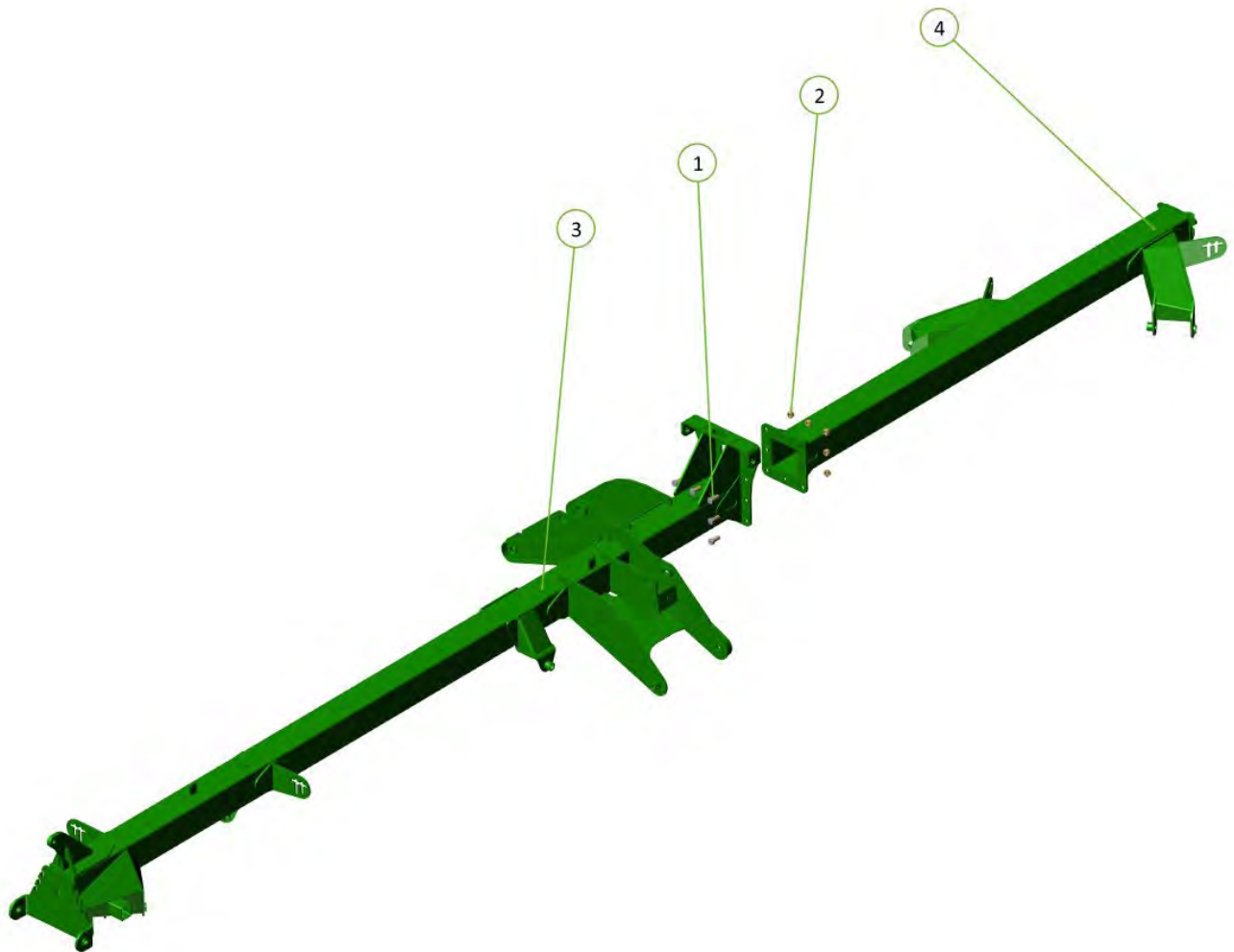
To avoid falling or moving components, before cutting straps attach slings or chains to individual pieces and only cut the straps holding the piece to be lifted.

- 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, the machine is ready for assembly
- Identify parts for each machine by serial no. or description and separate. Open parts box and check that all parts are accounted for against checklist
- Read assembly instructions before proceeding.

# Section 2

## Frame

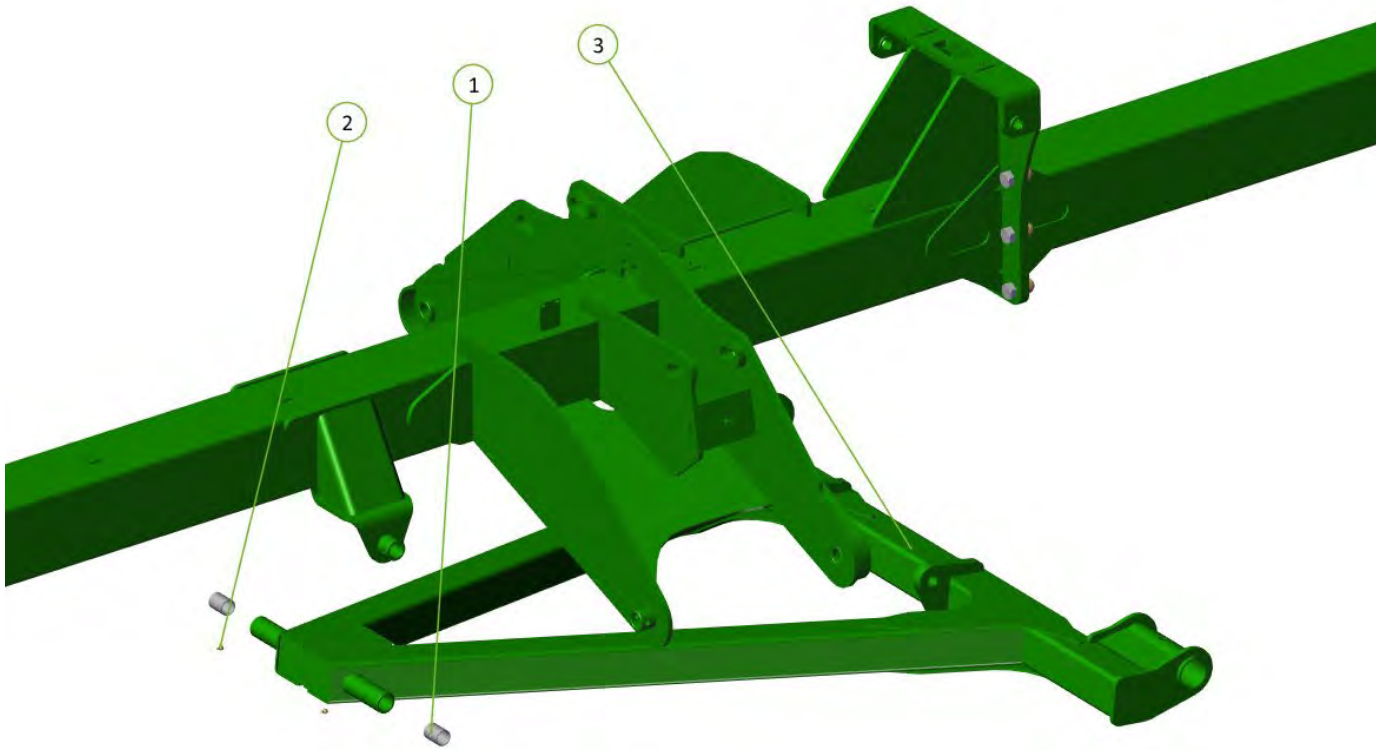
Item No.	Description	Qty	Number
1	M24 x 55 Grade 8.8 ZP Bolt	8	0211-2455
2	Nyloc Nut M24	8	0221-NYL24
3	6m Centre Section Frame	1	1520-01
4	6m Rear Section Frame	1	1520-03





Item No.	Description	Qty	Number
1	MB ID 35mm x 50mm DX Bush	2	0113-MB 3550DX
2	Grease Nipple 1/8" BSP	2	0181-GN1-8
3	6m Wheel Arm Frame	1	1520-10

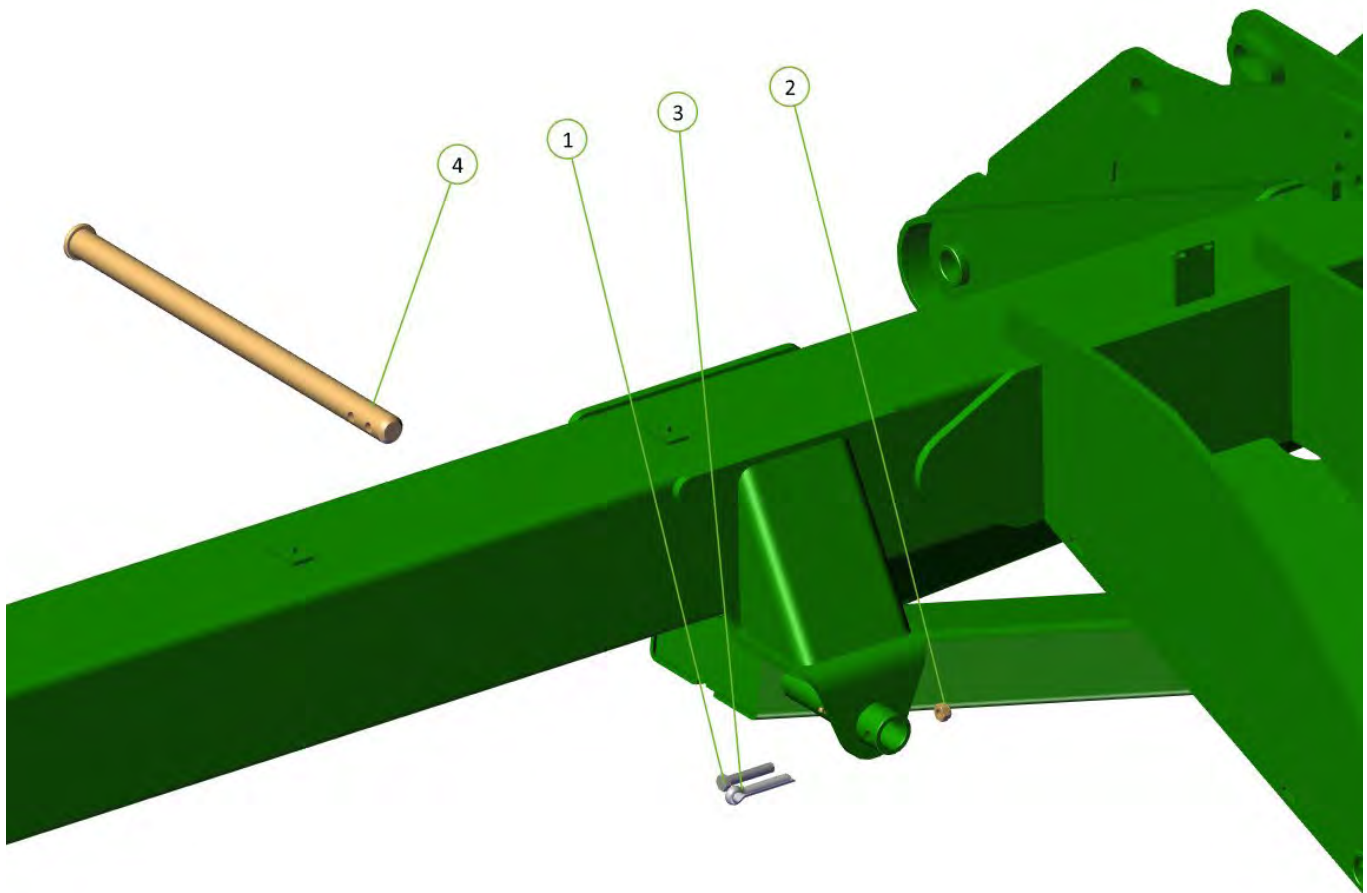
Please note the DX bushes are already preinserted for you by Kelly Engineering



Travelling



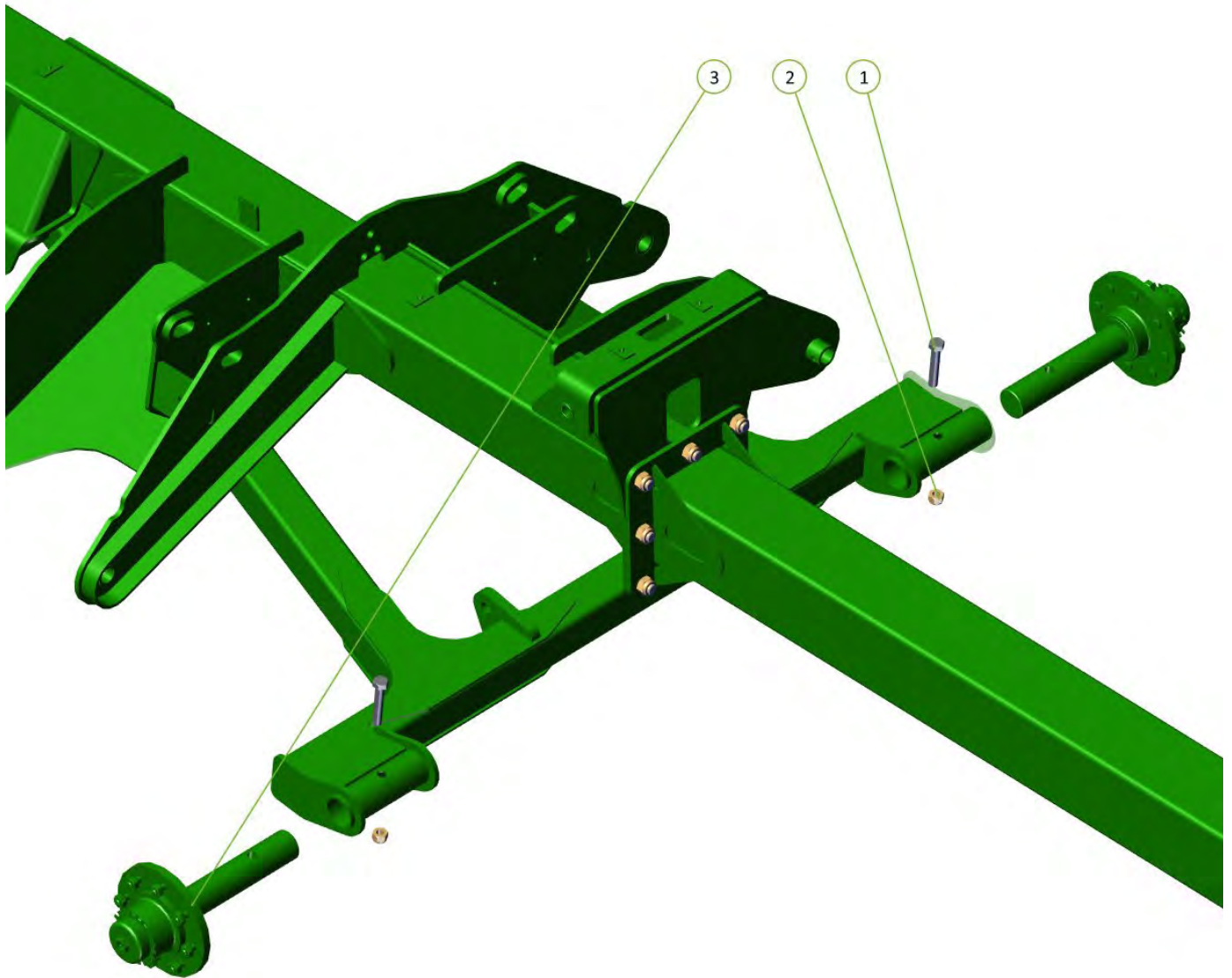
Item No.	Description	Qty	Number
1	M12 x 65 grade 8.8 ZP Bolt	1	0211-1265
2	Nyloc Nut M12	1	0221-NYL12
3	COTTER PIN M13 X 63mm	1	0261-PINC1363
4	Long Pivot Pin	1	1501-35615



Travelling

Item No.	Description	Qty	Number
1	M20 x 110 grade 8.8 ZP Bolt	2	0211-20##
2	Nyloc Nut M20	2	0221-NYL## (Nyloc Nut Metric)
3	2.75"R C/W 6 tonne 8 on 8" PCD Complete Assembly	2	0733-SH27596880

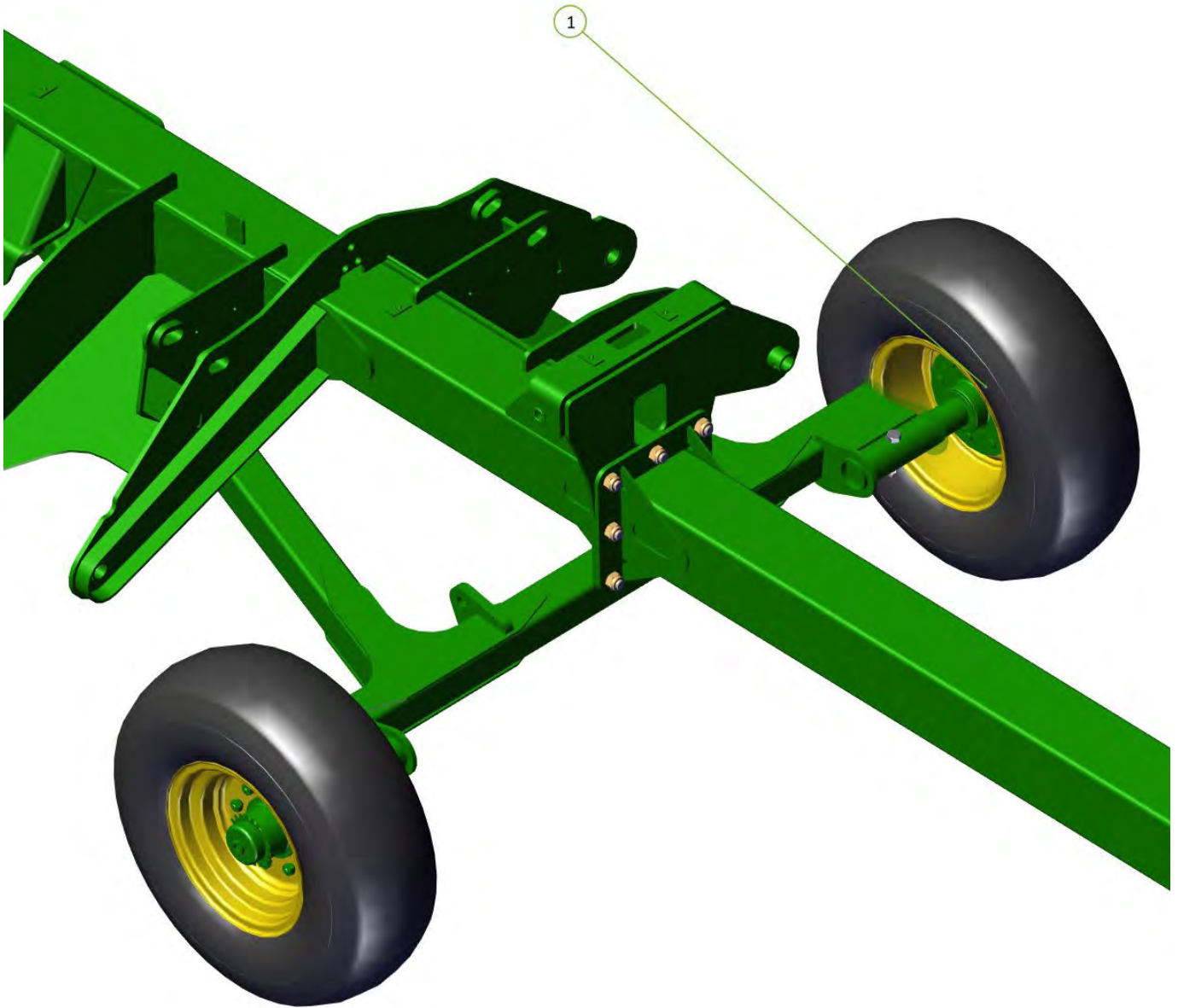
Please note this view is for Australian/USA models, European models require a braked axle



Travelling



Item No.	Description	Qty	Number
1	11.5/80-15.3 tyre, 9" rim 0 offset, 8 on 8" studs, 162 cntr	2	0711-11.5-80-15.3

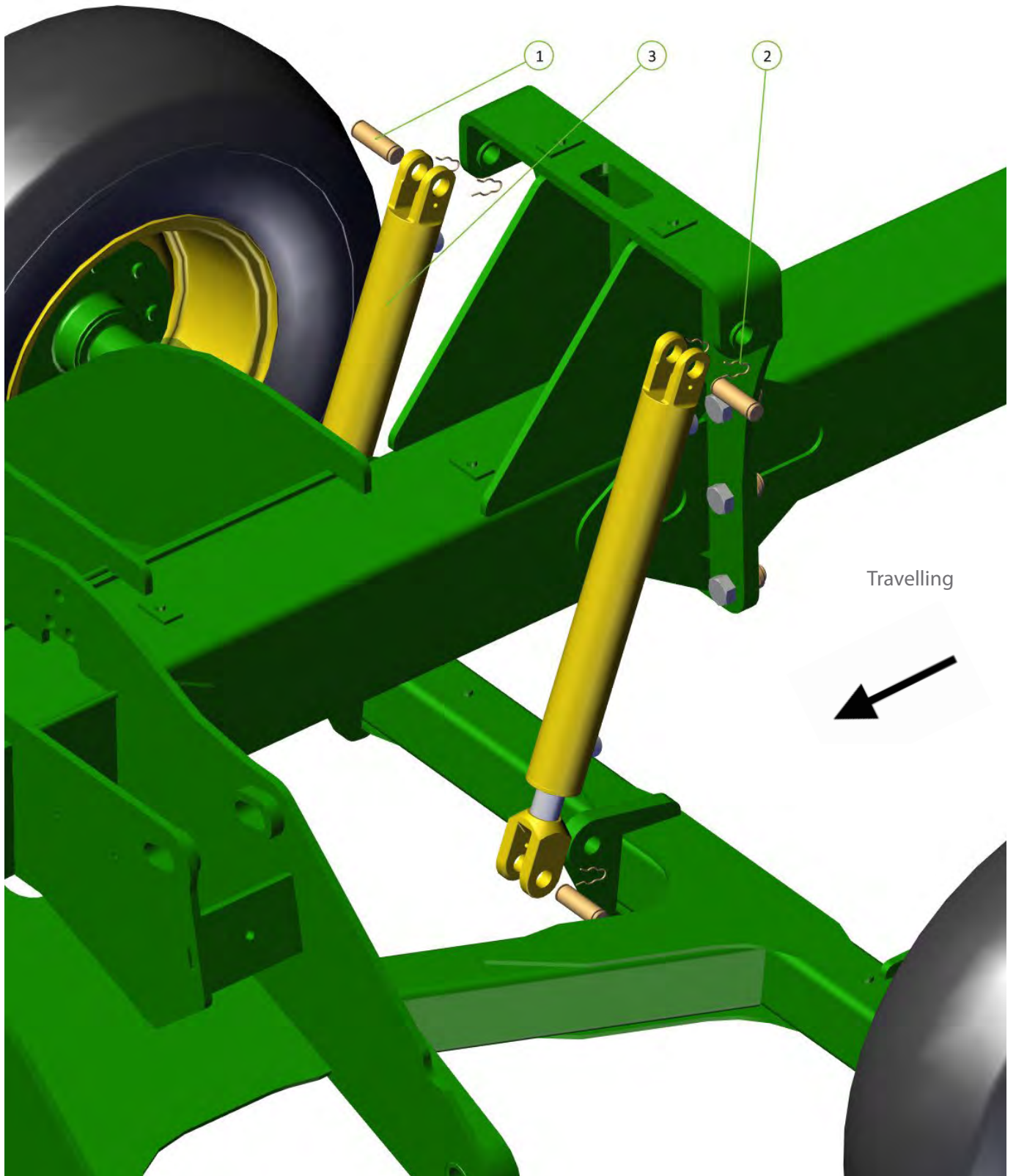


Travelling



Item No.	Description	Qty	Number
1	Nordon 1" x 80mm Cylinder Pin	4	0313-N1
2	Nordon 1" Cylinder Pin Clip	8	0313-N1C
3	2.5" Bore x 16" Stroke Hydraulic Cylinder	2	1520-KDH

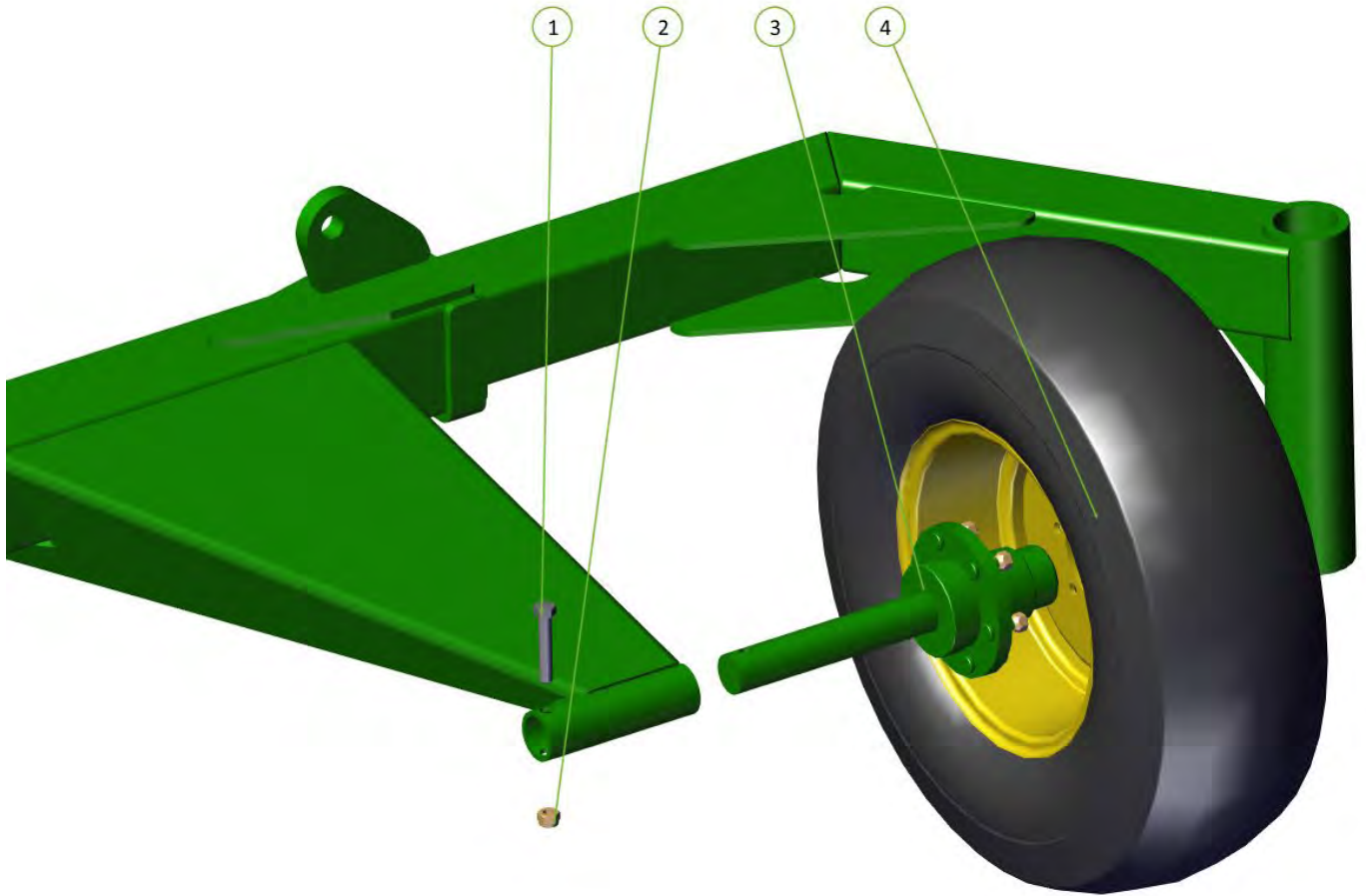
Please ensure cylinders are installed with ports facing rear of machine



Item No.	Description	Qty	Number
1	Grease Nipple 1/8" BSP	2	0181-GN1-8
2	M12 x 70 grade 8.8 ZP Bolt	1	0211-1270
3	M12 x 65 grade 8.8 ZP Bolt	1	0211-1265
4	Nyloc Nut M12	2	0221-NYL12
5	COTTER PIN M13 X 63mm	1	0261-PINC1363
6	Wing Tension Pin	1	1501-25214
7	Long Pivot Pin	1	1501-35615



Item No.	Description	Qty	Number
1	M16 x 90 grade 8.8 zp Bolt	1	0211-1690
2	Nyloc Nut M16	1	0221-NYL16
3	Axle 2"R 3T 6 on 6"PCD 330 OHF Complete Assembly	1	0733-K5083T66S
4	11L15F3 tyre On Rim	1	0721-15X8

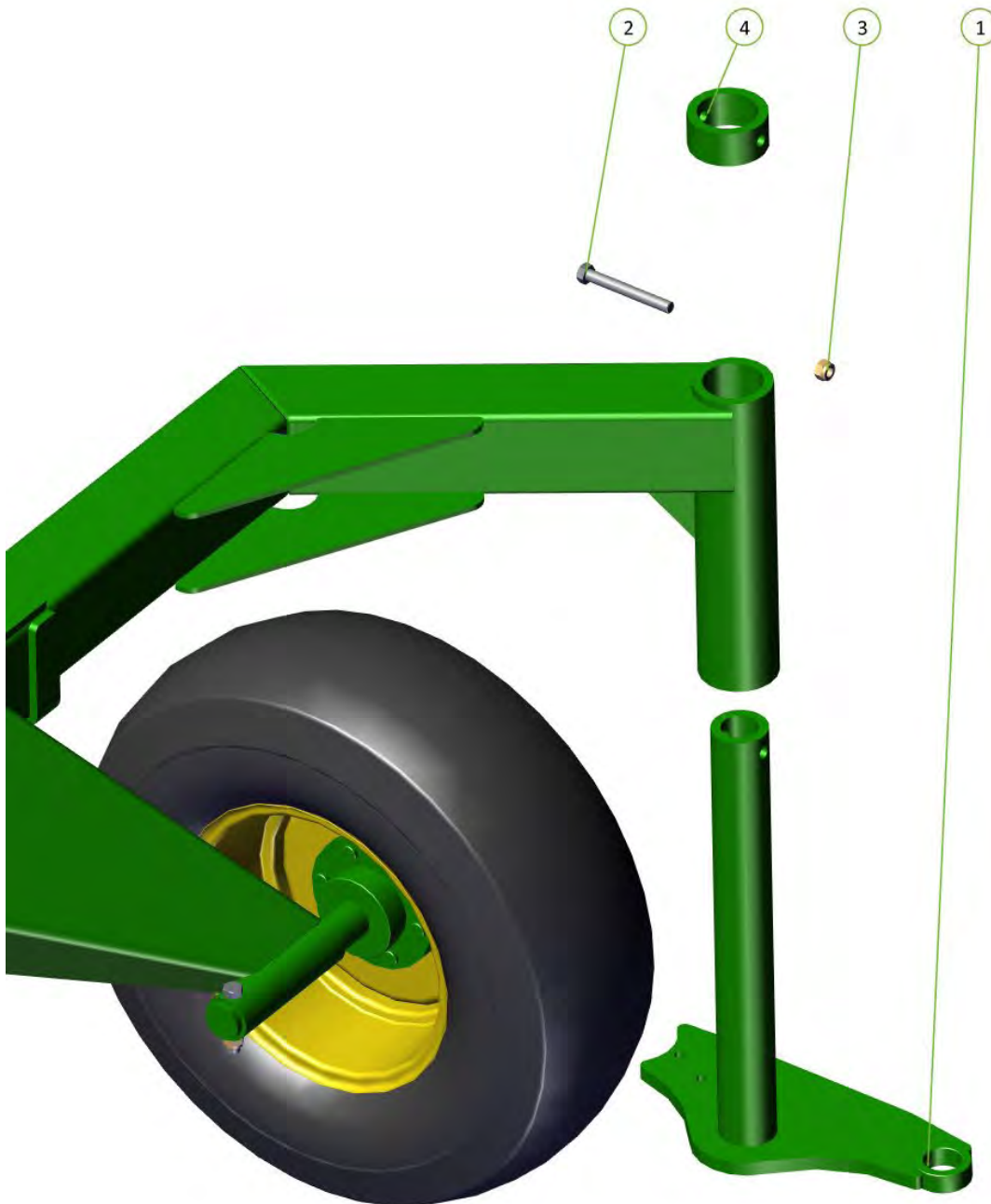


Travelling





Item No.	Description	Qty	Number
1	LH Drop Leg	1	1510-25
2	M16 x 130 grade 8.8 zp Bolt	1	0211-16130
3	Nyloc Nut M16	1	0221-NYL16
4	Drop Leg Retaining Bush	1	1520-KDH



Travelling





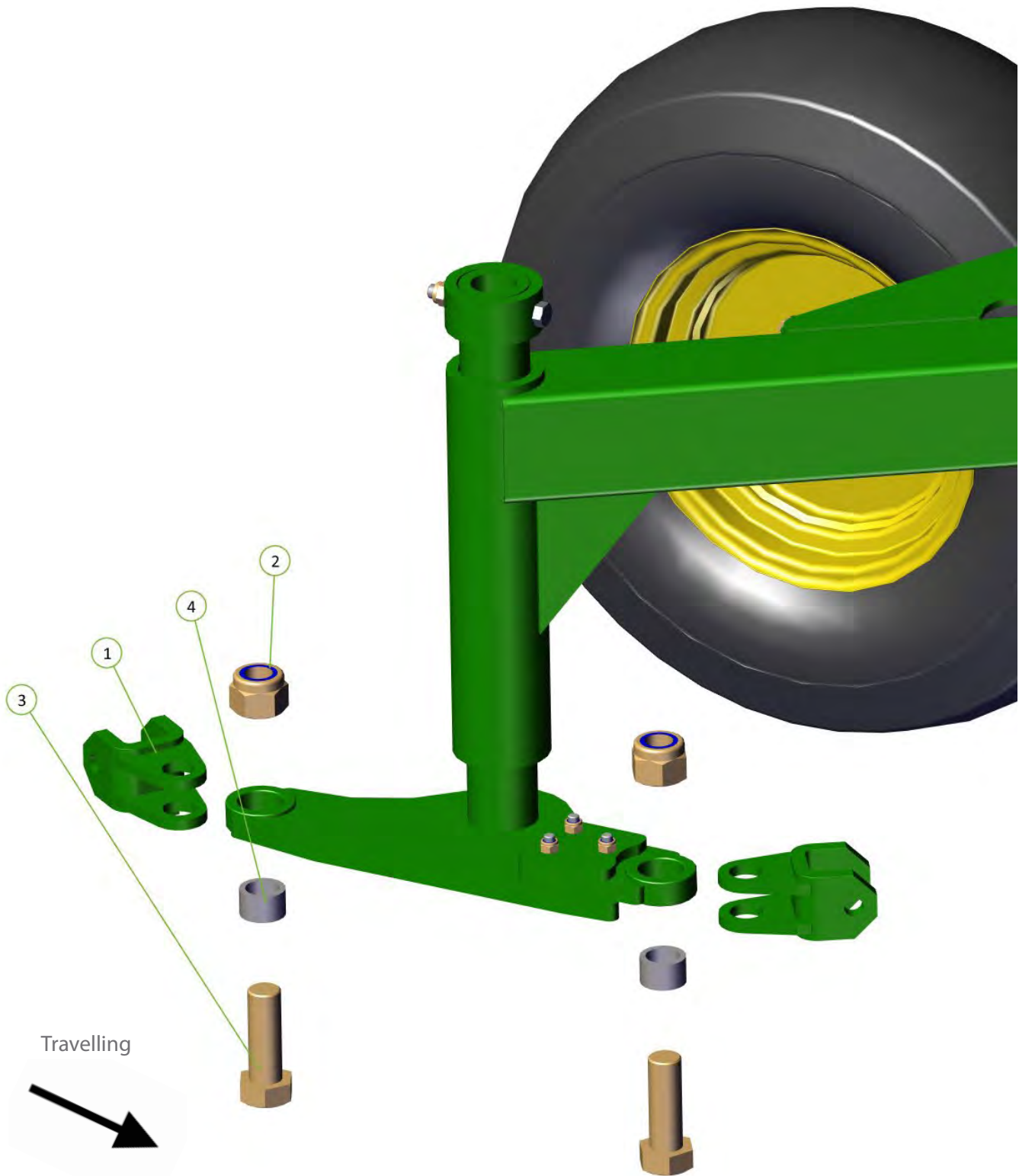
Item No.	Description	Qty	Number
1	Drop Leg Spacer Plate	1	1500-095
2	Drop Leg Bush Housing	1	1510-23
3	Nyloc Nut M12	3	0221-NYL12
4	M12 x 70 grade 8.8 ZP Bolt	3	0211-1270



Travelling



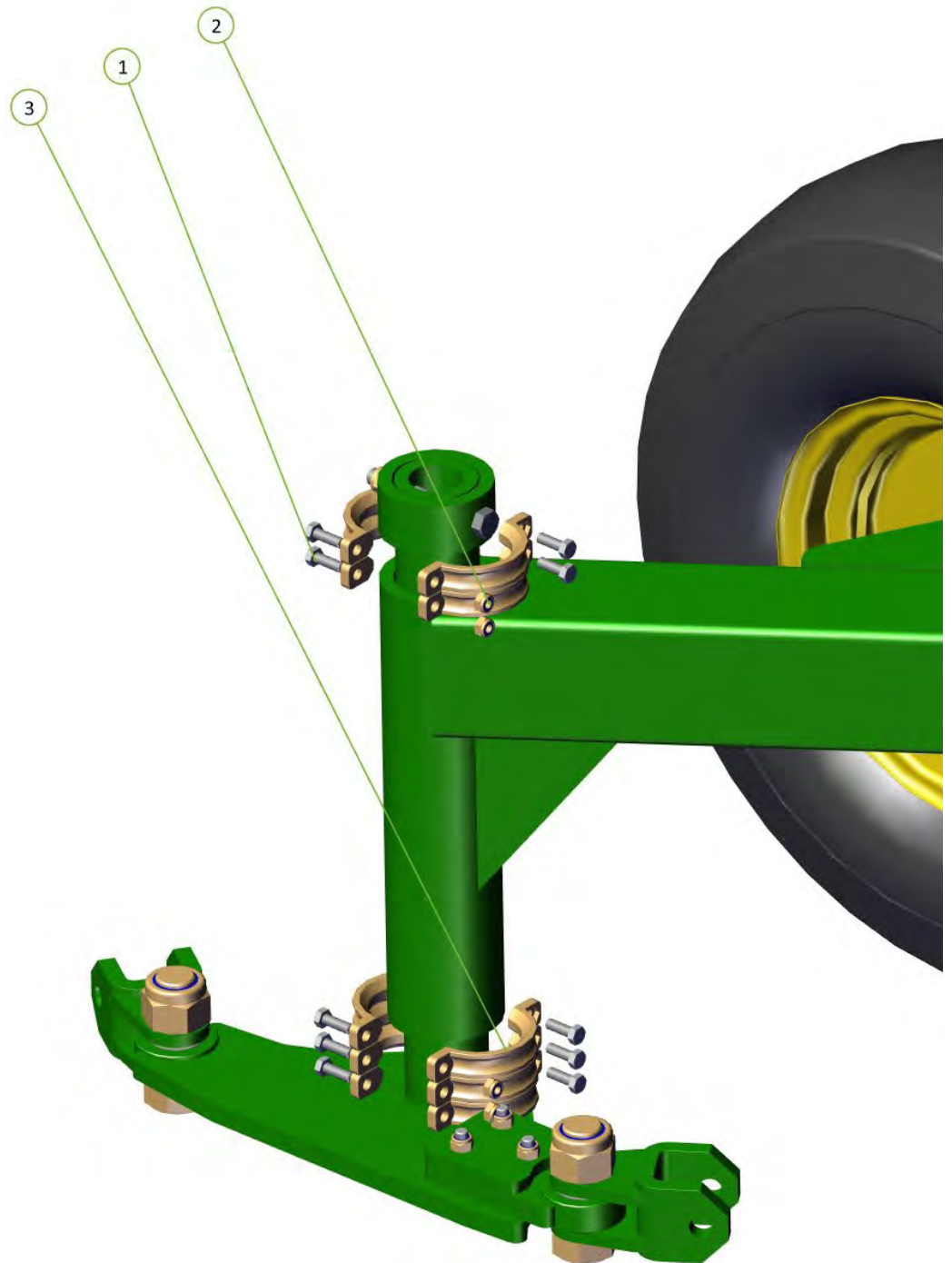
Item No.	Description	Qty	Number
1	21mm Welded Bolt on Clevis	2	0810-KE53
2	Nyloc Nut M36	2	0221-NYL36
3	M36 x 105 grade 8.8 ZP Bolt	2	0211-36105
4	Wear Bush	2	1501-365033-SS



Item No.	Description	Qty	Number
1	M10 x 30 grade 8.8 ZP Bolt	10	0211-1030
2	Nyloc Nut M10	10	0221-NYL10
3	25mm Drop Leg Spacer Half	10	0801-CS25



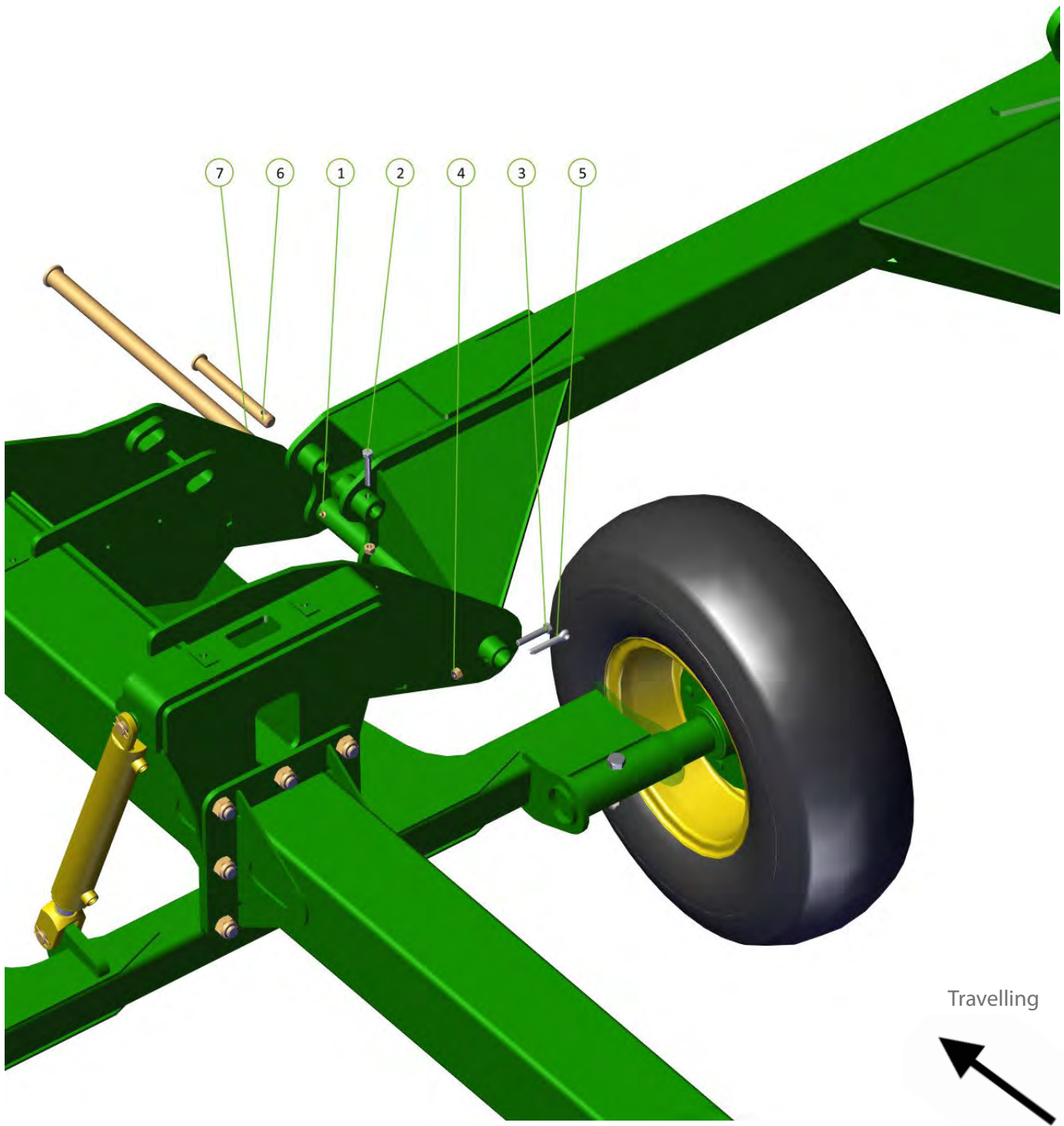
For ease of chain setup leave these spacer bolts loose and adjust as necessary when setting chain height.



Travelling

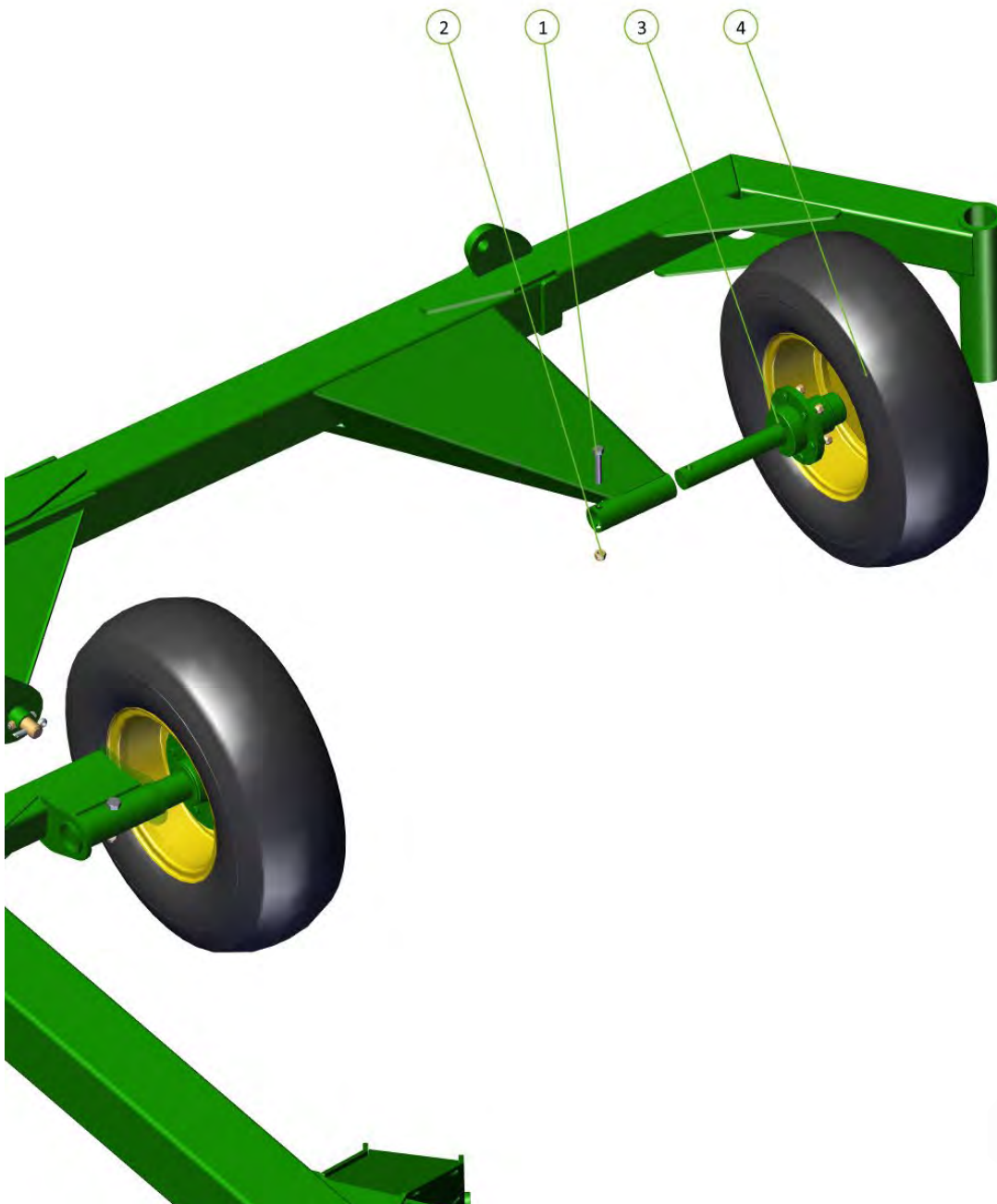


Item No.	Description	Qty	Number
1	Grease Nipple 1/8" BSP	2	0181-GN1-8
2	M12 x 70 grade 8.8 ZP Bolt	1	0211-1270
3	M12 x 65 grade 8.8 ZP Bolt	1	0211-1265
4	Nyloc Nut M12	2	0221-NYL12
5	COTTER PIN M13 X 63mm	1	0261-PINC1363
6	Wing Tension Pin	1	1501-25214
7	Long Pivot Pin	1	1501-35615





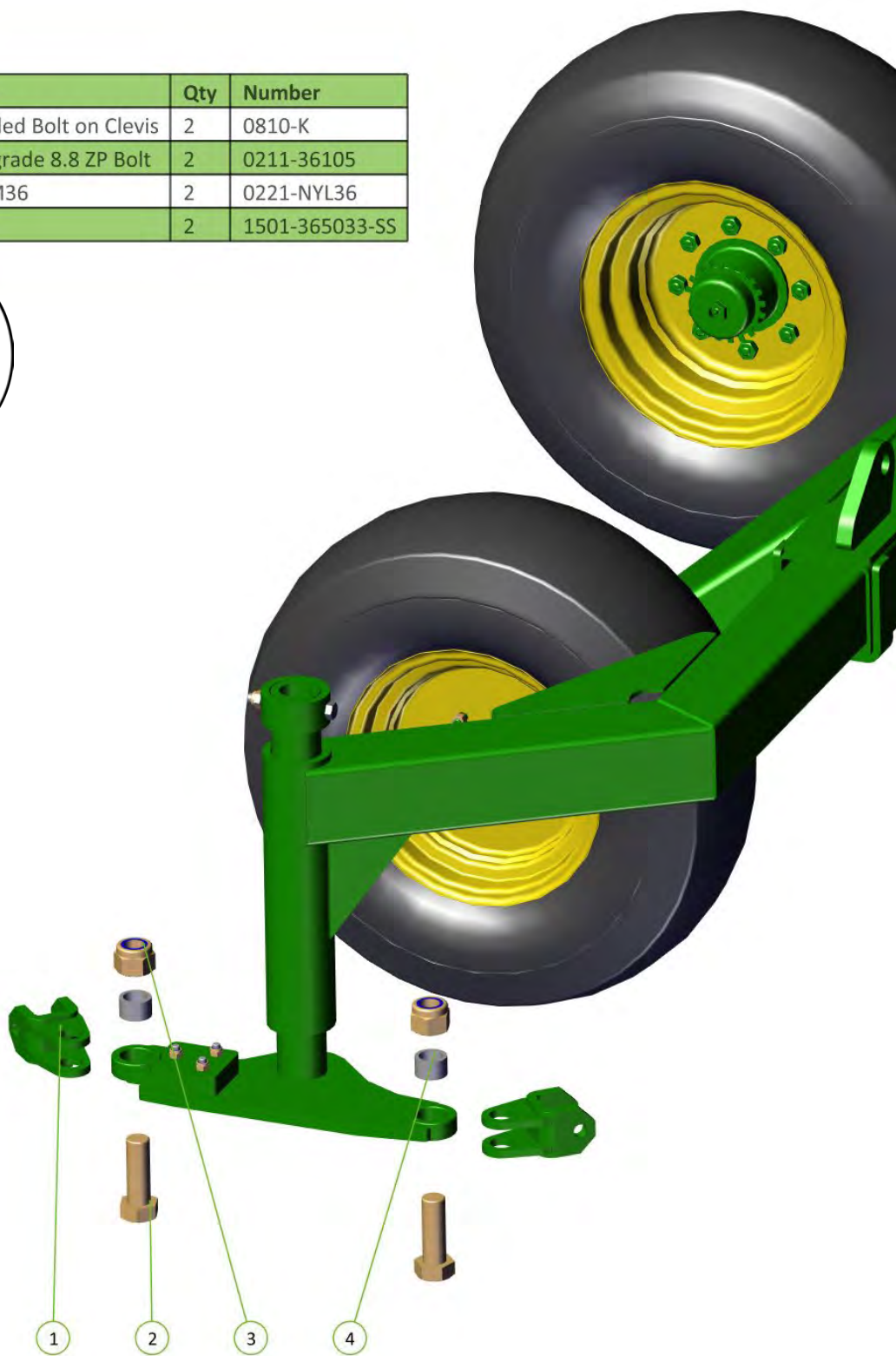
Item No.	Description	Qty	Number
1	M16 x 90 grade 8.8 zp Bolt	1	0211-1690
2	Nyloc Nut M16	1	0221-NYL16
3	Axle 2"R 3T 6 on 6"PCD 330 OHF Complete Assembly	1	0732-K5083TS
4	Rim Only 15" Diameter 8" Wide, 6 on 6" PCD, 118mm Bore, +30 Offset	1	0721-15X8



Item No.	Description	Qty	Number
1	M16 x 130 grade 8.8 zp Bolt	1	0211-16130
2	Nyloc Nut M16	1	0221-NYL16
3	Nyloc Nut M12	3	0221-NYL12
4	M12 x 70 grade 8.8 ZP Bolt	3	0211-1270
5	Drop Leg Spacer Plate	1	1500-095
6	Drop Leg Bush Housing	1	1510-23
7	Drop Leg Retaining Bush	1	1501-26
8	RH Drop Leg	1	1510-24



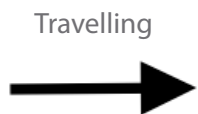
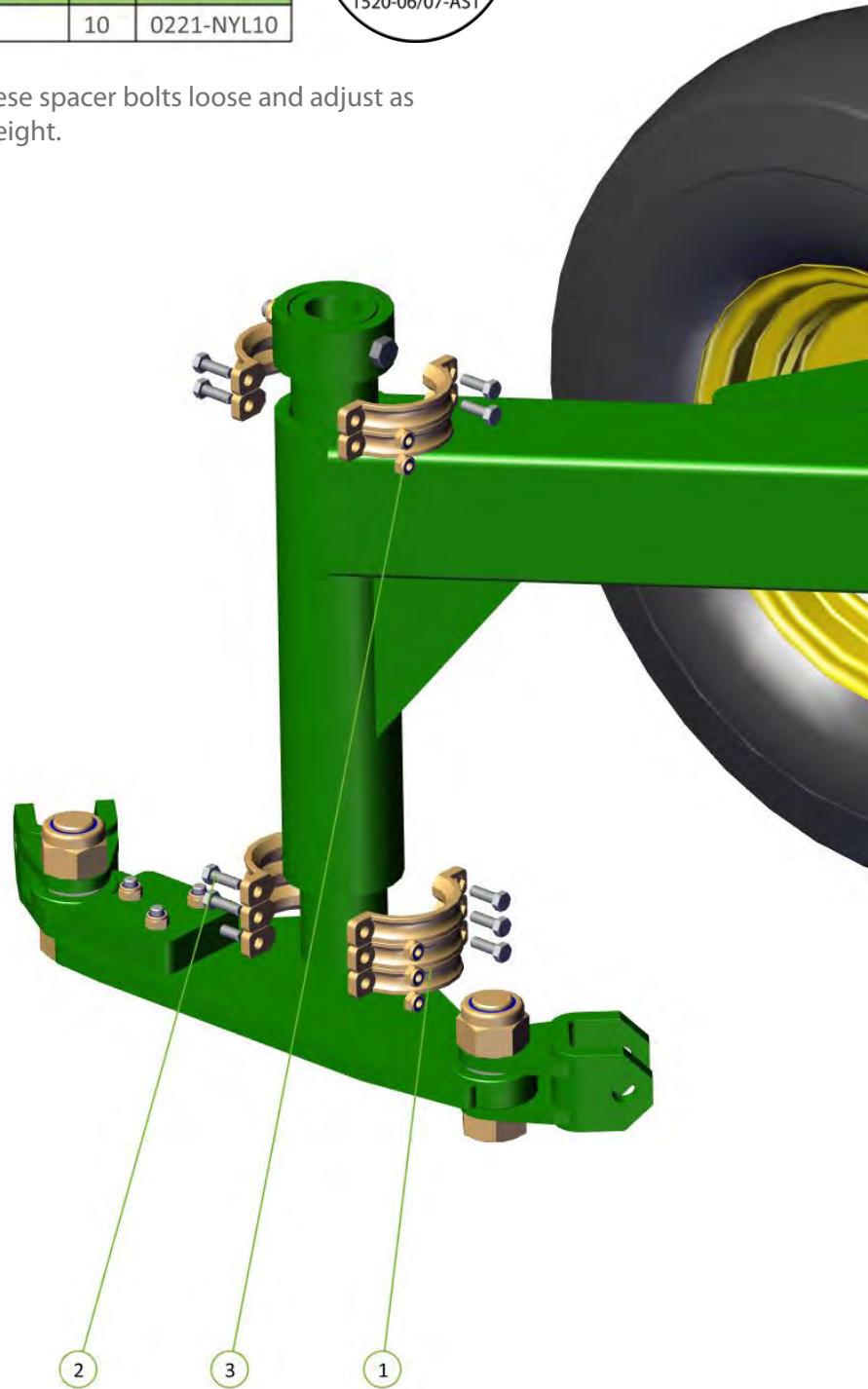
Item No.	Description	Qty	Number
1	21mm Welded Bolt on Clevis	2	0810-K
2	M36 x 105 grade 8.8 ZP Bolt	2	0211-36105
3	Nyloc Nut M36	2	0221-NYL36
4	Wear Bush	2	1501-365033-SS



Item No.	Description	Qty	Number
1	25mm Drop Leg Spacer Half	10	0801-CS25
2	M10 x 30 grade 8.8 ZP Bolt	10	0211-1030
3	Nyloc Nut M10	10	0221-NYL10

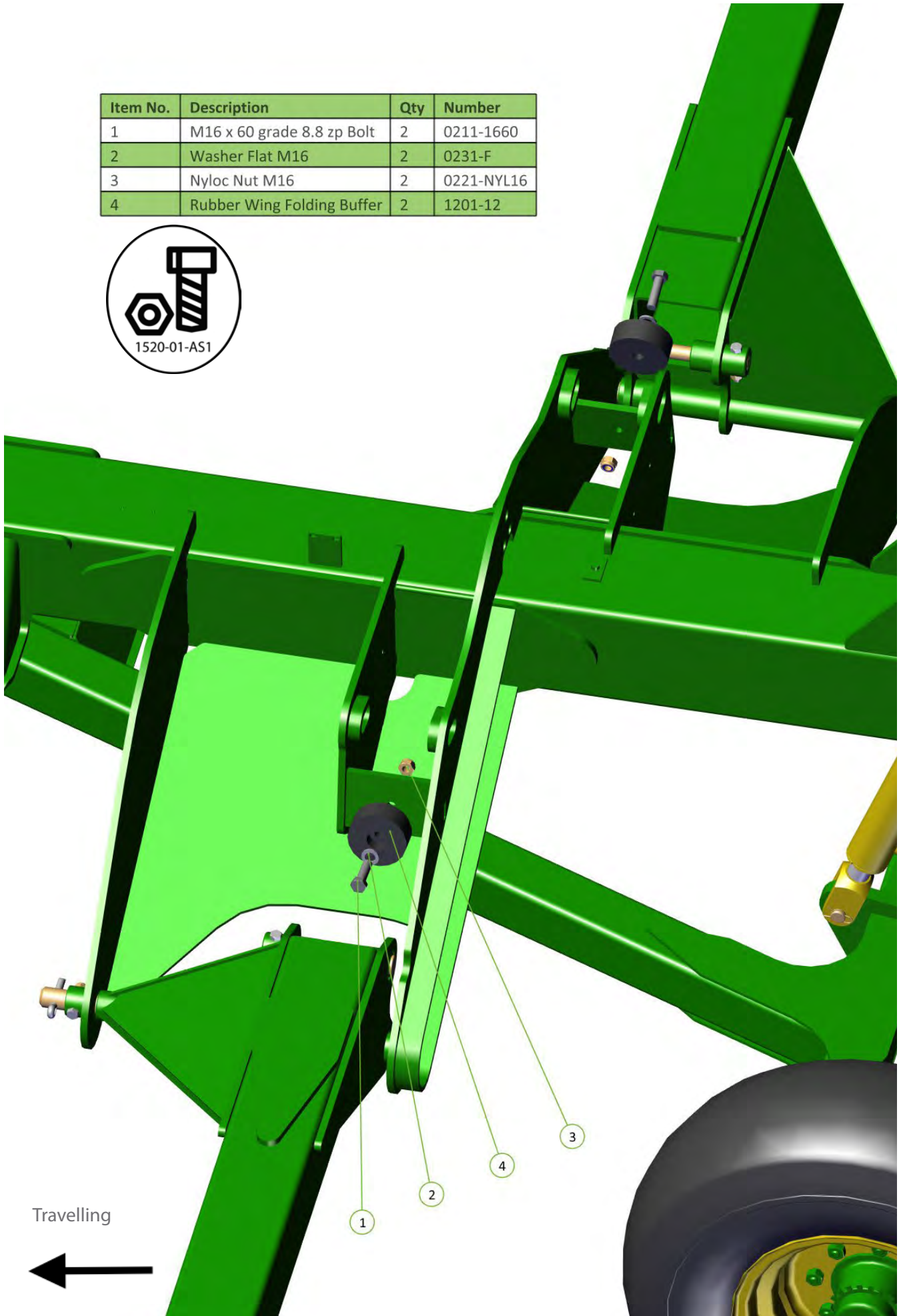


For ease of chain setup leave these spacer bolts loose and adjust as necessary when setting chain height.





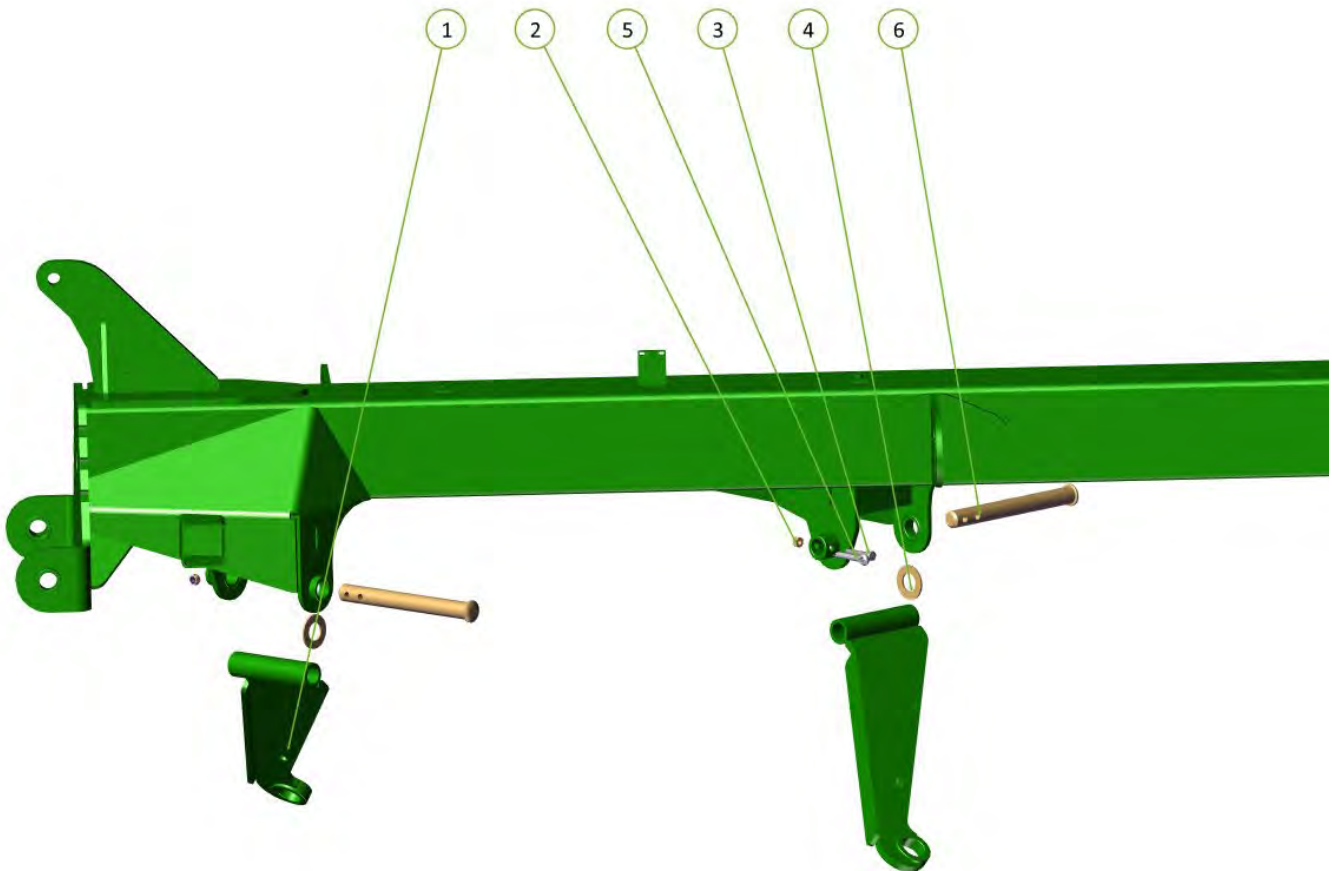
Item No.	Description	Qty	Number
1	M16 x 60 grade 8.8 zp Bolt	2	0211-1660
2	Washer Flat M16	2	0231-F
3	Nyloc Nut M16	2	0221-NYL16
4	Rubber Wing Folding Buffer	2	1201-12



Item No.	Description	Qty	Number
1	Chain Mount Plate	2	1510-20
2	Nyloc Nut M12	2	0221-NYL12
3	M12 x 65 grade 8.8 ZP Bolt	2	0211-1265
4	Washer High Tensile 1 3/8"	2	0232-HT13-8
5	Cotter Pin M13 X 63mm	2	0261-PINC1363
6	Short Pivot Pin	2	1501-35330



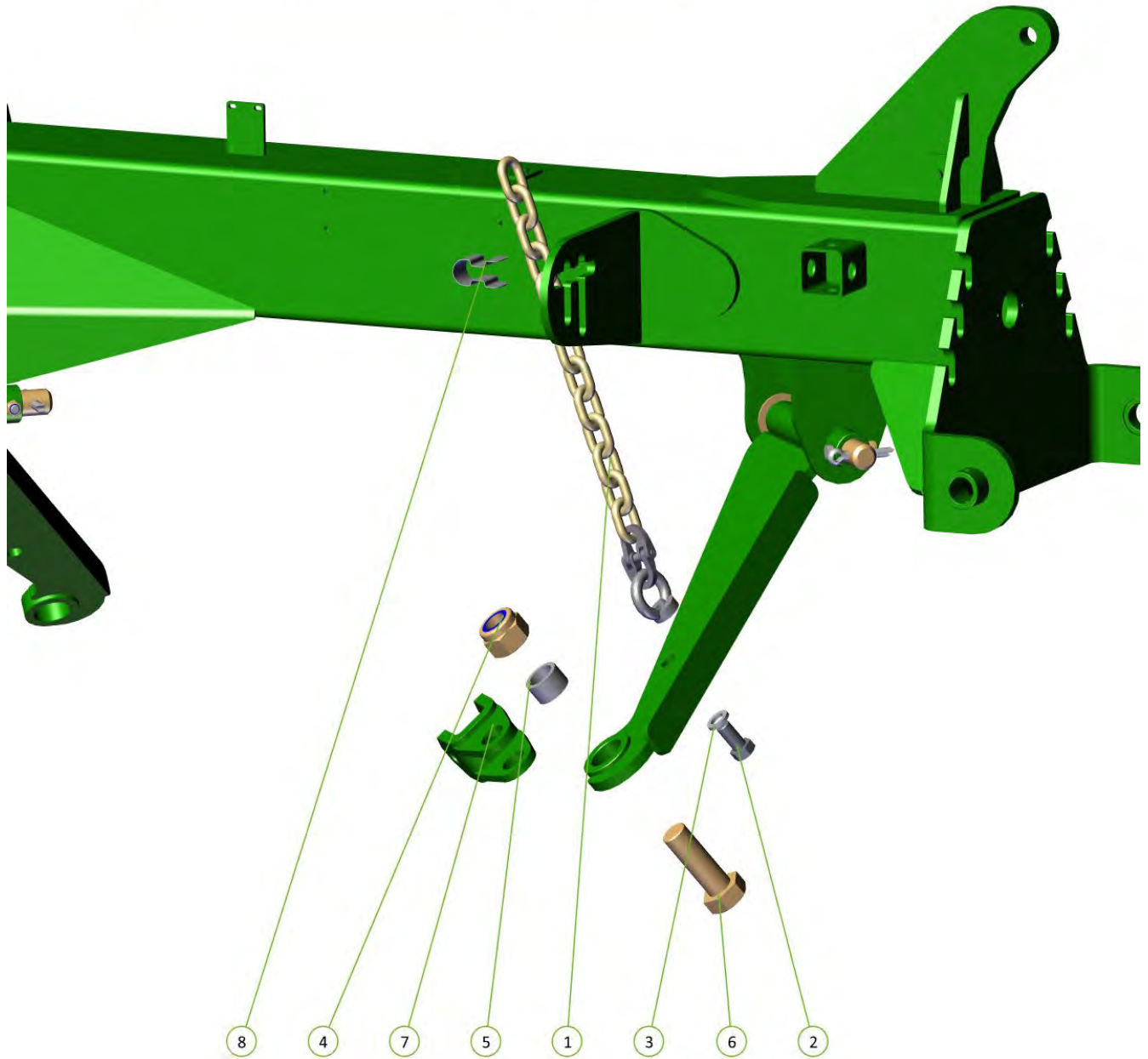
PLEASE NOTE INSERTING 1 3/8' WASHER IS A CRITICAL STEP



Travelling

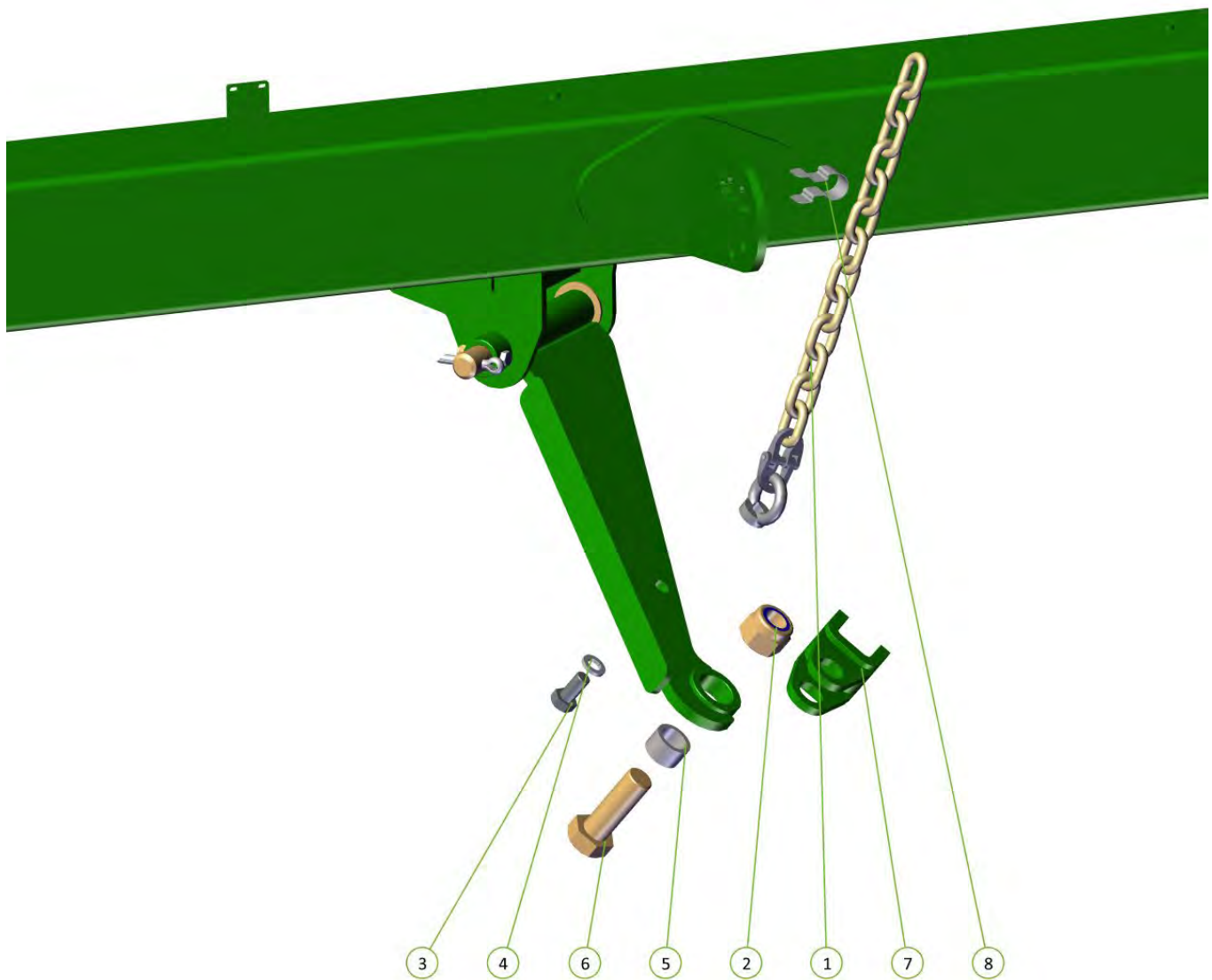


Item No.	Description	Qty	Number
1	M20 x 13mm Chain Assembly 13 Link	1	0801-20MCA
2	M20 x 40 grade 8.8 ZP Bolt	1	0211-2040
3	M20 Spring Washer	1	1520-KDH
4	Nyloc Nut M36	1	0221-NYL36
5	Wear Bush	1	1501-365033-SS
6	M36 x 105 grade 8.8 ZP Bolt	1	0211-36105
7	21mm Welded Bolt on Clevis	1	0810-KE53
8	Height Adjustor Retaining Clip	1	0801-KE014





Item No.	Description	Qty	Number
1	M20 x 13mm Chain Assembly 13 Link	1	0801-20MCA
2	Nyloc Nut M36	1	0221-NYL36
3	M20 x 40 grade 8.8 ZP Bolt	1	0211-2040
4	M20 Spring Washer	1	0231-S20
5	Wear Bush	1	1501-365033-SS
6	M36 x 105 grade 8.8 ZP Bolt	1	0211-36105
7	21mm Welded Bolt on Clevis	1	0810-KE53
8	Height Adjustor Retaining Clip	1	0801-KE014

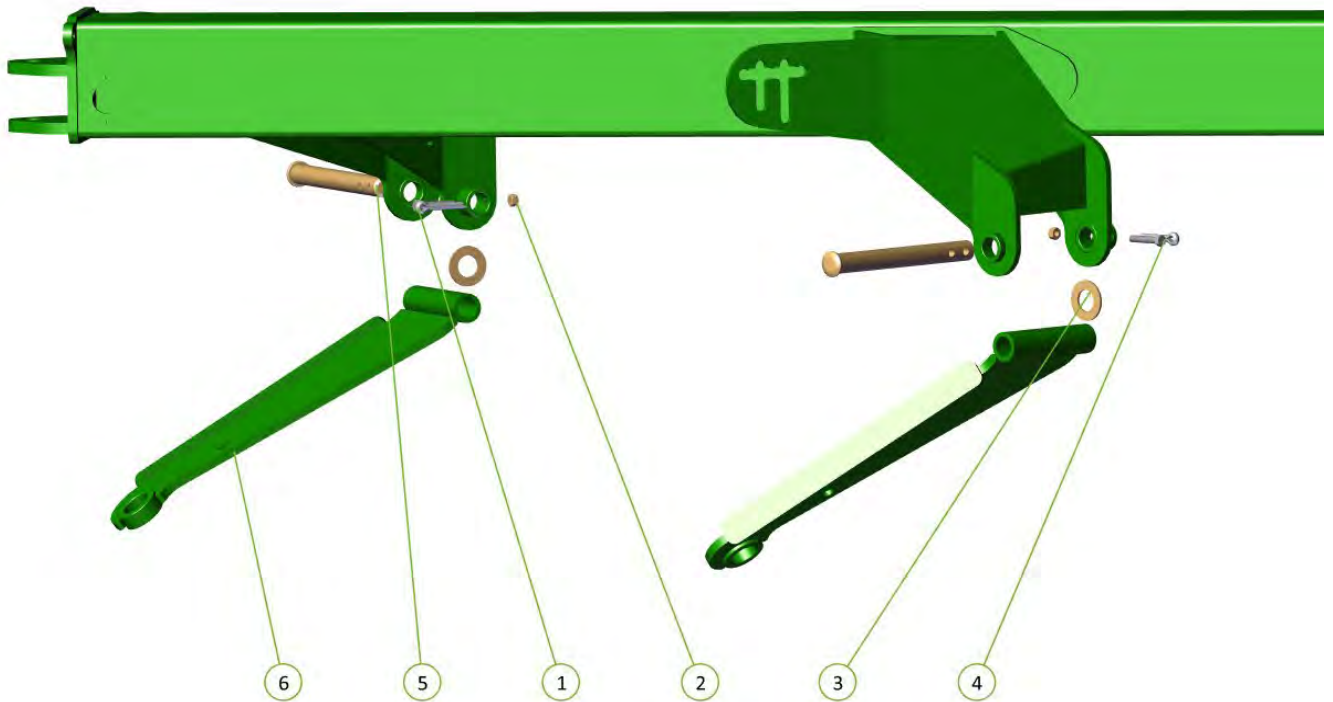


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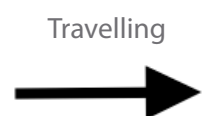




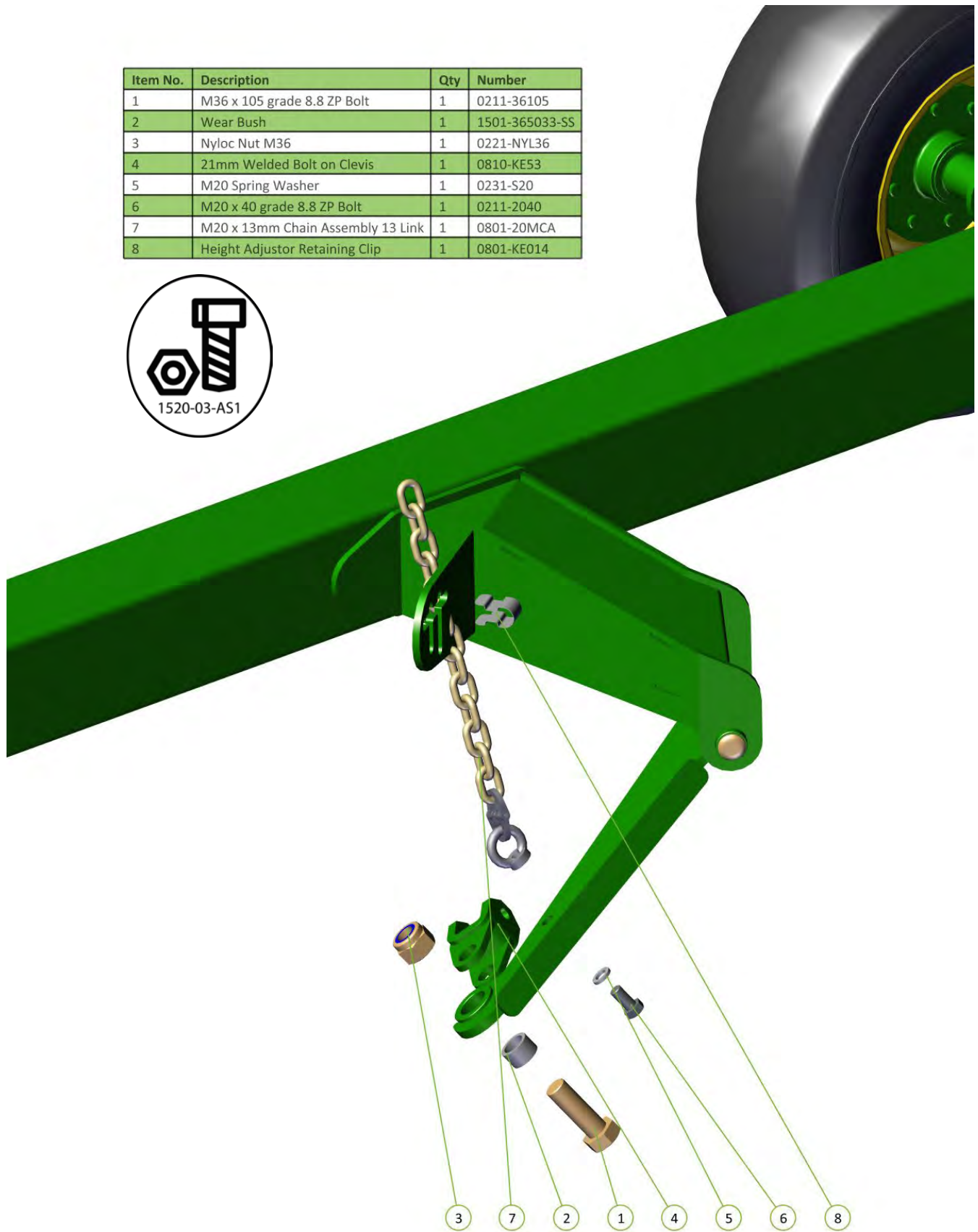
Item No.	Description	Qty	Number
1	M12 x 65 grade 8.8 ZP Bolt	2	0211-1265
2	Nyloc Nut M12	2	0221-NYL12
3	Washer High Tensile 1 3/8"	2	0232-HT13-8
4	Cotter Pin M13 X 63mm	2	0261-PINC1363
5	Short Pivot Pin	2	1501-35330
6	Chain Mount Plate	2	1510-20



PLEASE NOTE INSERTING 1 3/8" WASHER IS A CRITICAL STEP



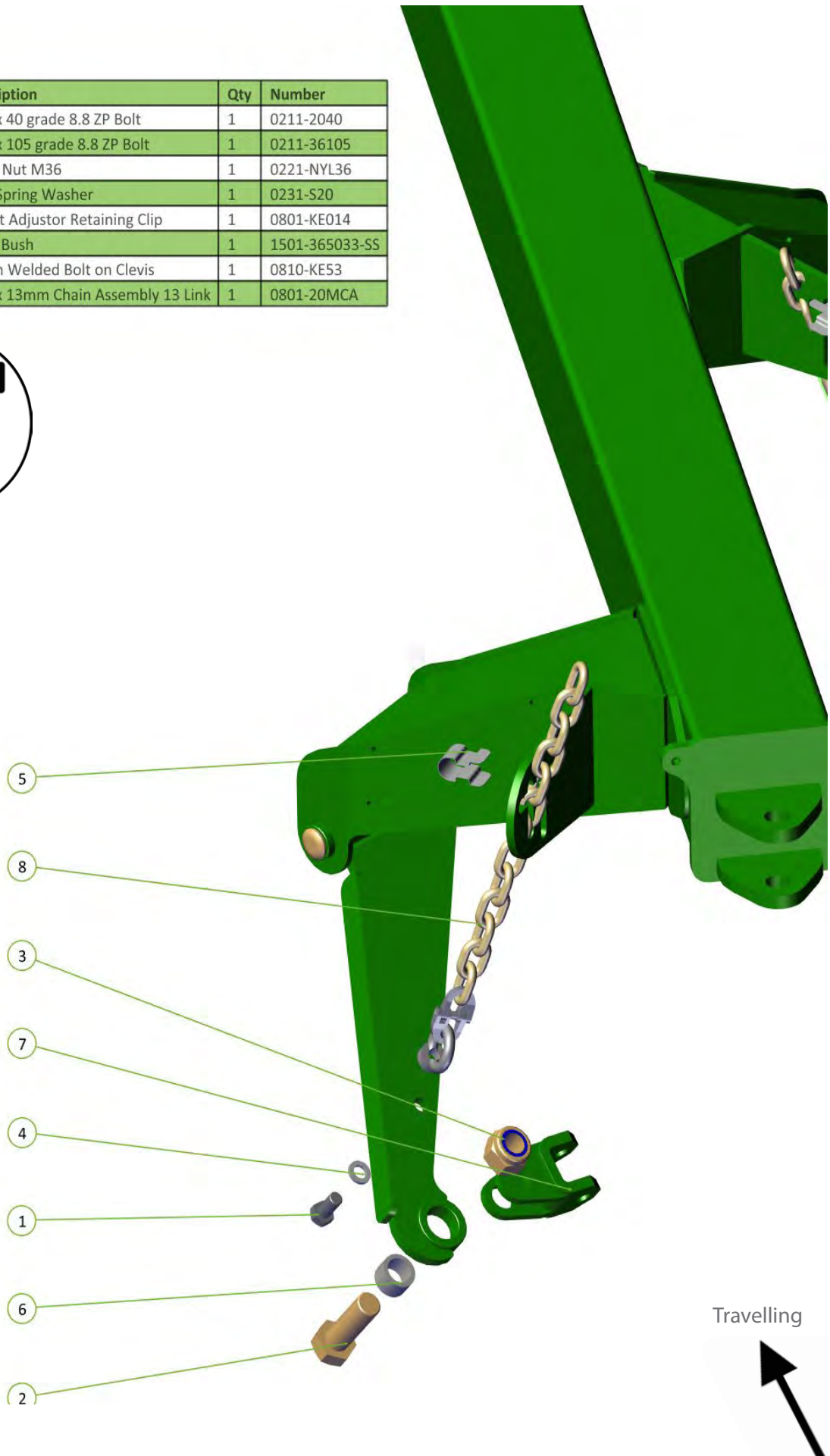
Item No.	Description	Qty	Number
1	M36 x 105 grade 8.8 ZP Bolt	1	0211-36105
2	Wear Bush	1	1501-365033-SS
3	Nyloc Nut M36	1	0221-NYL36
4	21mm Welded Bolt on Clevis	1	0810-KE53
5	M20 Spring Washer	1	0231-S20
6	M20 x 40 grade 8.8 ZP Bolt	1	0211-2040
7	M20 x 13mm Chain Assembly 13 Link	1	0801-20MCA
8	Height Adjustor Retaining Clip	1	0801-KE014



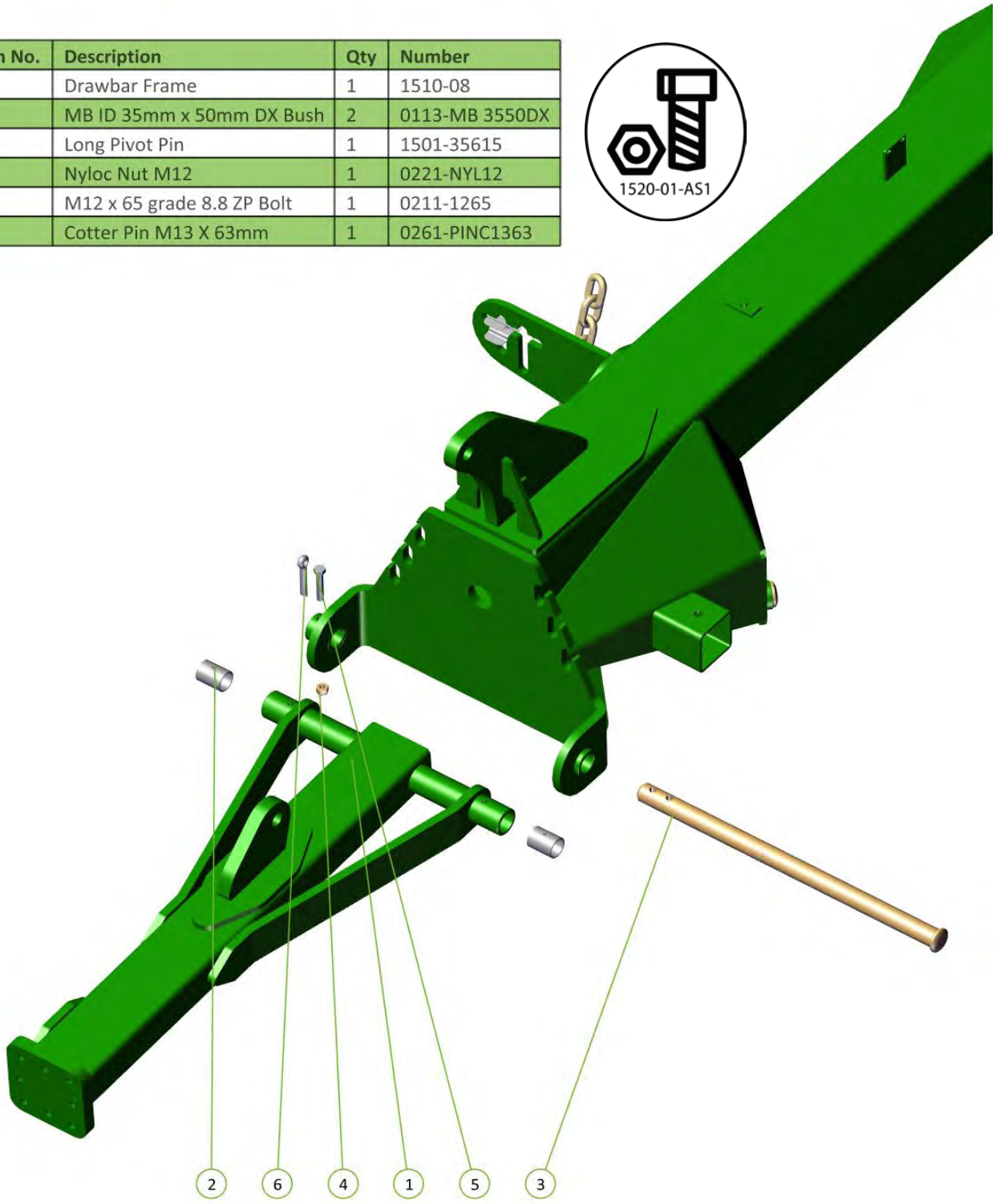
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Item No.	Description	Qty	Number
1	M20 x 40 grade 8.8 ZP Bolt	1	0211-2040
2	M36 x 105 grade 8.8 ZP Bolt	1	0211-36105
3	Nyloc Nut M36	1	0221-NYL36
4	M20 Spring Washer	1	0231-S20
5	Height Adjustor Retaining Clip	1	0801-KE014
6	Wear Bush	1	1501-365033-SS
7	21mm Welded Bolt on Clevis	1	0810-KE53
8	M20 x 13mm Chain Assembly 13 Link	1	0801-20MCA



Item No.	Description	Qty	Number
1	Drawbar Frame	1	1510-08
2	MB ID 35mm x 50mm DX Bush	2	0113-MB 3550DX
3	Long Pivot Pin	1	1501-35615
4	Nyloc Nut M12	1	0221-NYL12
5	M12 x 65 grade 8.8 ZP Bolt	1	0211-1265
6	Cotter Pin M13 X 63mm	1	0261-PINC1363



Please note the DX bushes are already preinserted for you by Kelly Engineering

Travelling

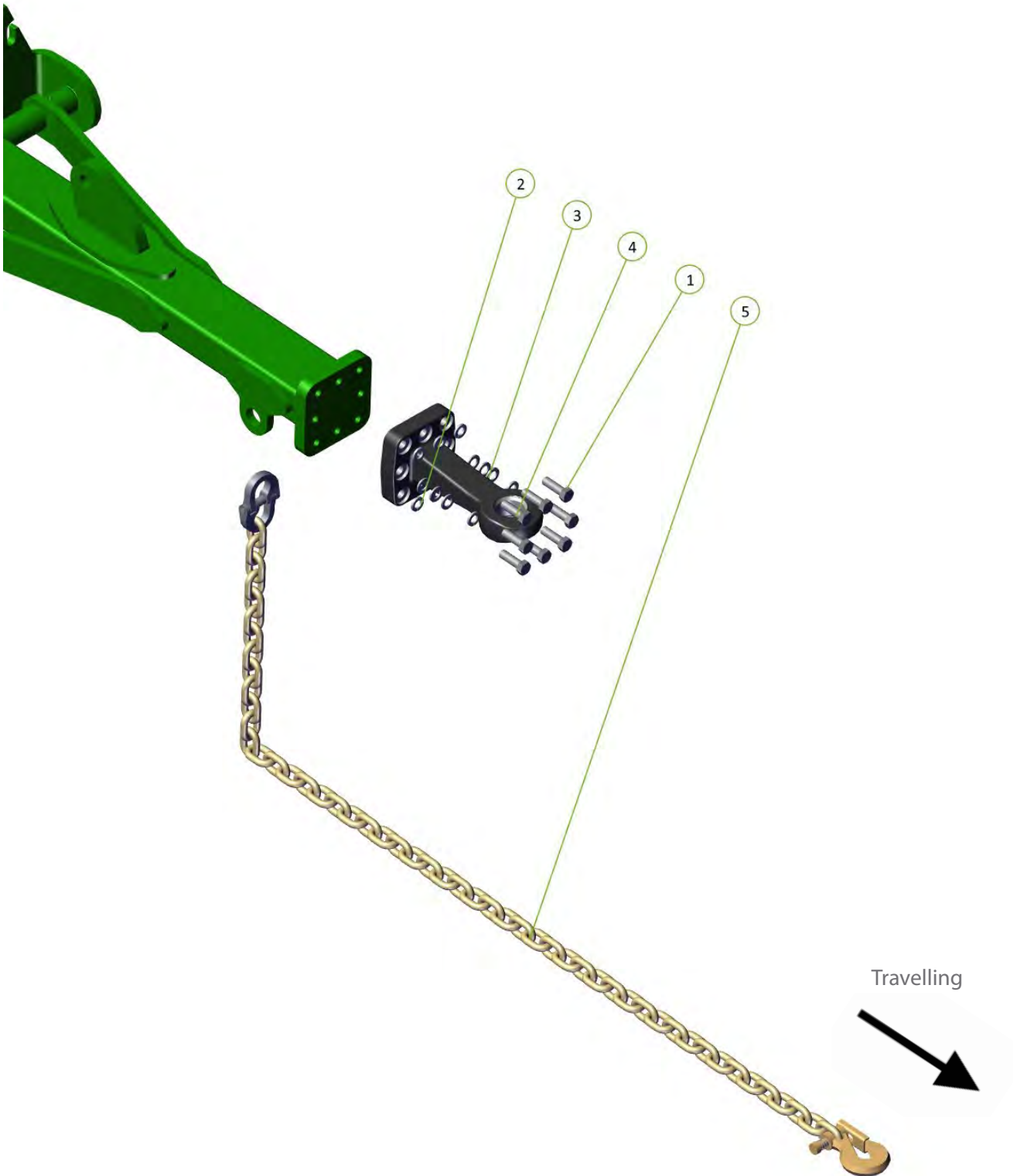




Item No.	Description	Qty	Number
1	M16 x 50 grade 8.8 zp Bolt	8	0211-1650
2	M16 Spring Washer	8	0231-S16
3	Washer Flat M16	6	0231-F16
4	Ring Coupling 50mm Eye	1	1501-RCBD50MM
5	Safety Chain Assembly	1	0810-16



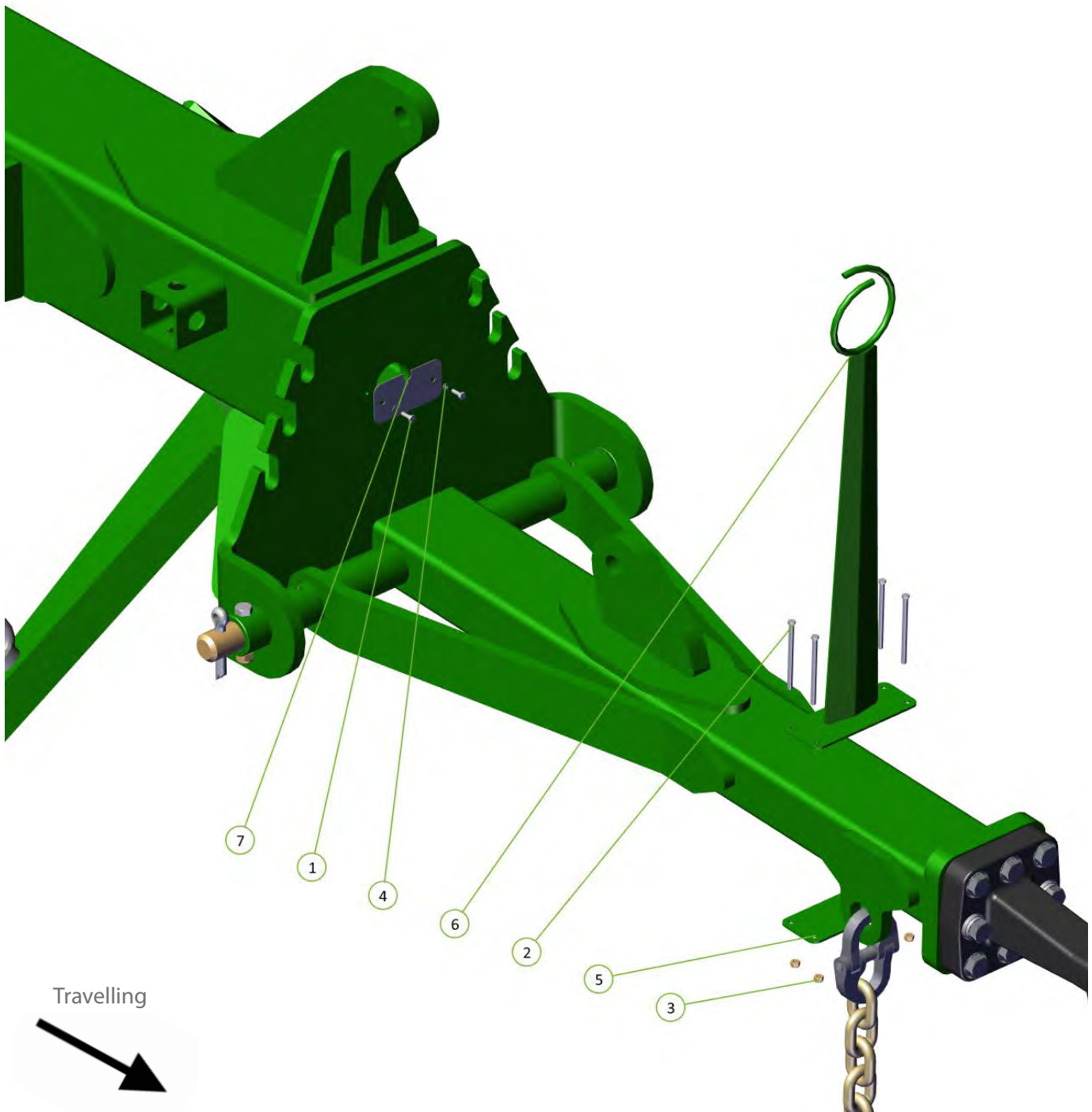
Please note the Tow eye is already assembled for you by Kelly Engineering



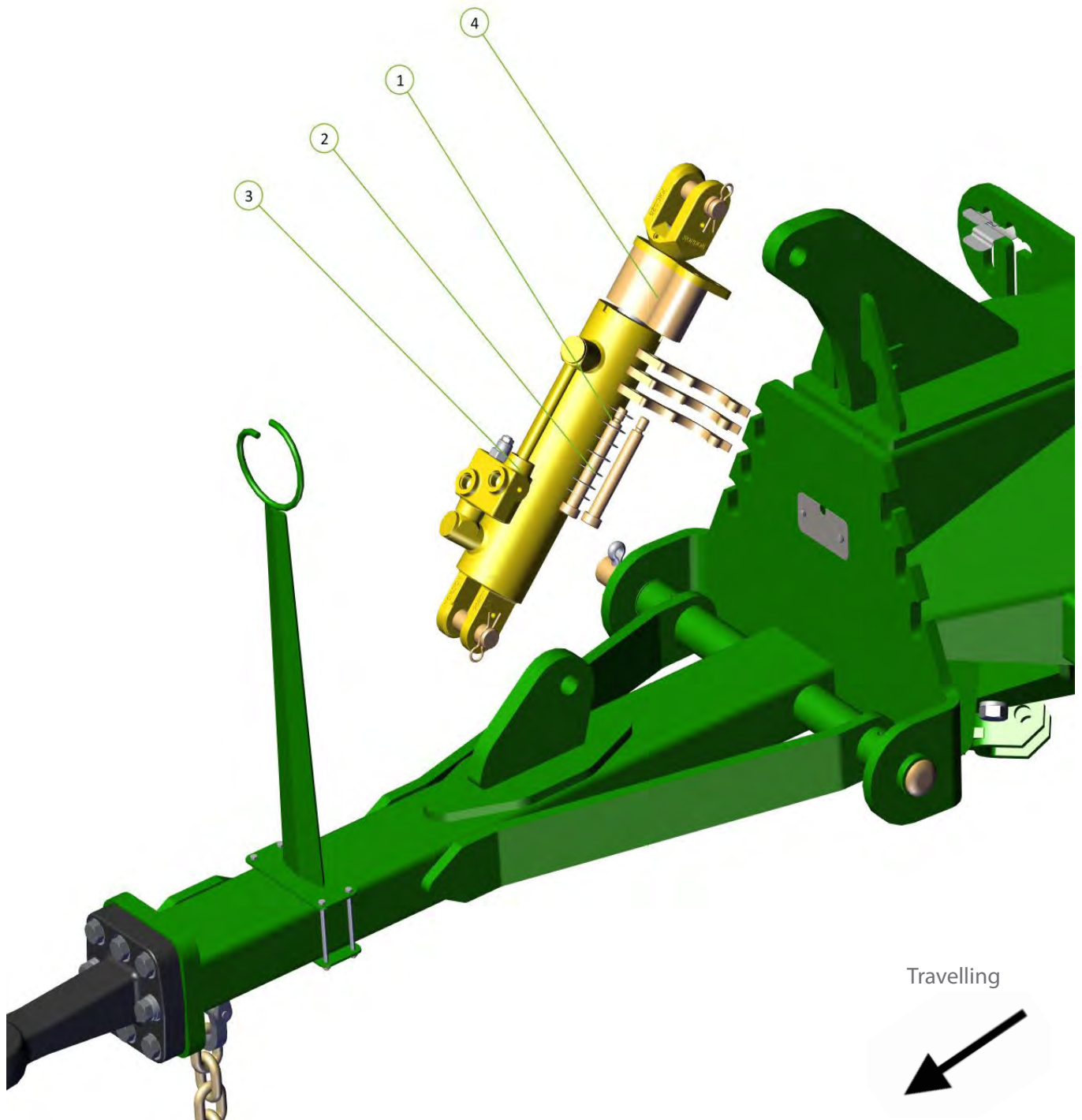
Item No.	Description	Qty	Number
1	M5 x 0.8 x 15mm Grade 4.6 ZP Bolt	2	0211-515
2	M6 x 1 x 90mm Grade 4.6 ZP Bolt	4	0211-690
3	Nyloc Nut M6	4	0221-NYL6
4	M5 Spring Washer	2	0231-S5
5	Hose Holder Base Plate	1	1500-109
6	Hose Post	1	1510-151
7	Wiring Capping Plate	1	1500-122



On machines with lights, leave wiring capping plate loose until wiring is fed through main frame.

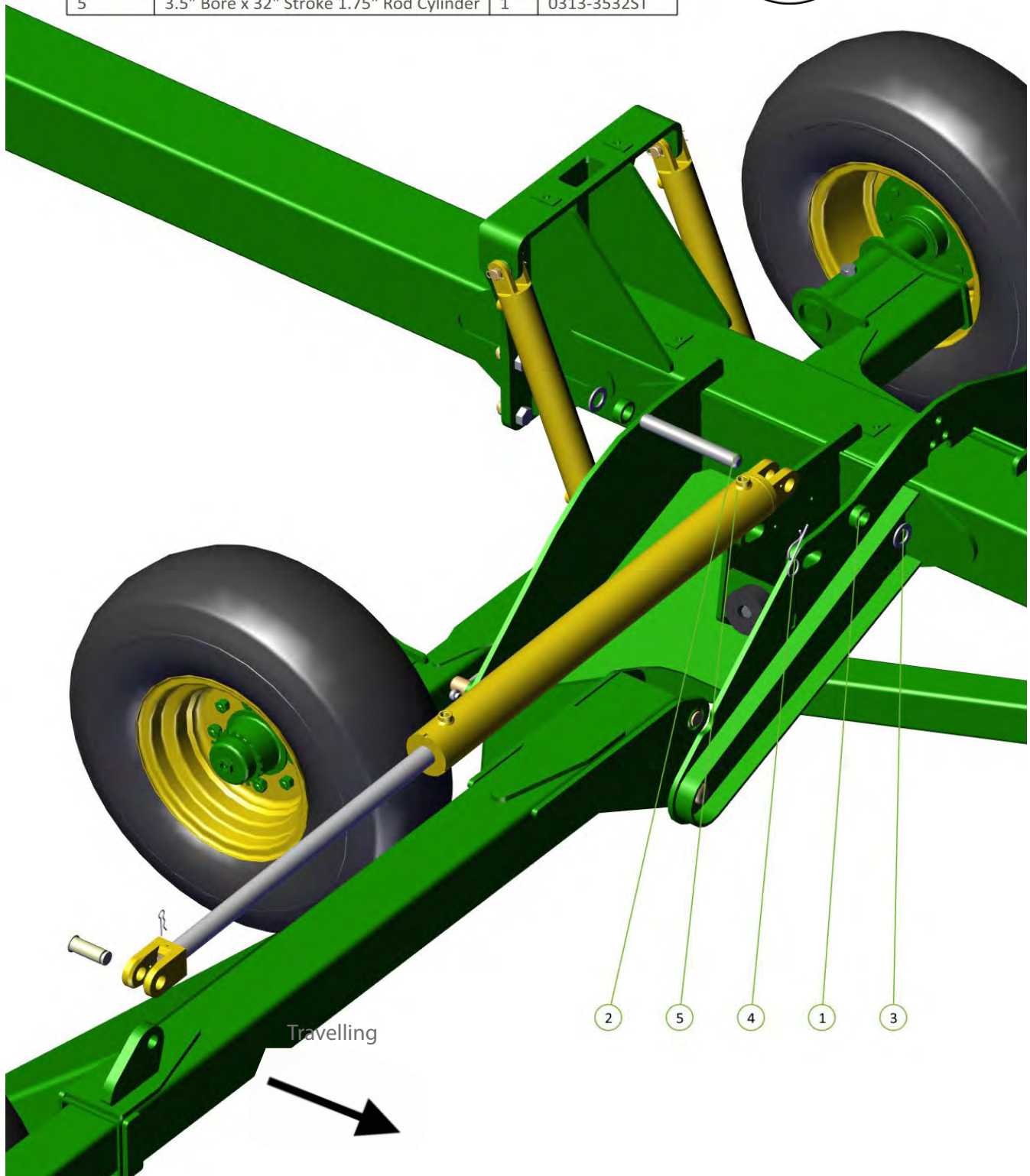


Item No.	Description	Qty	Number
1	Shoulder Screw M12*16*110 Z P	2	0211-12110SHSCREW
2	Compression Cup Washer	7	0231-SPRINGCUP
3	3" Bore x 8" Stroke 1.5" Rod with Counterbalance Valve	1	0311-38
4	Cylinder Depth Stop Plate	10	0800-278



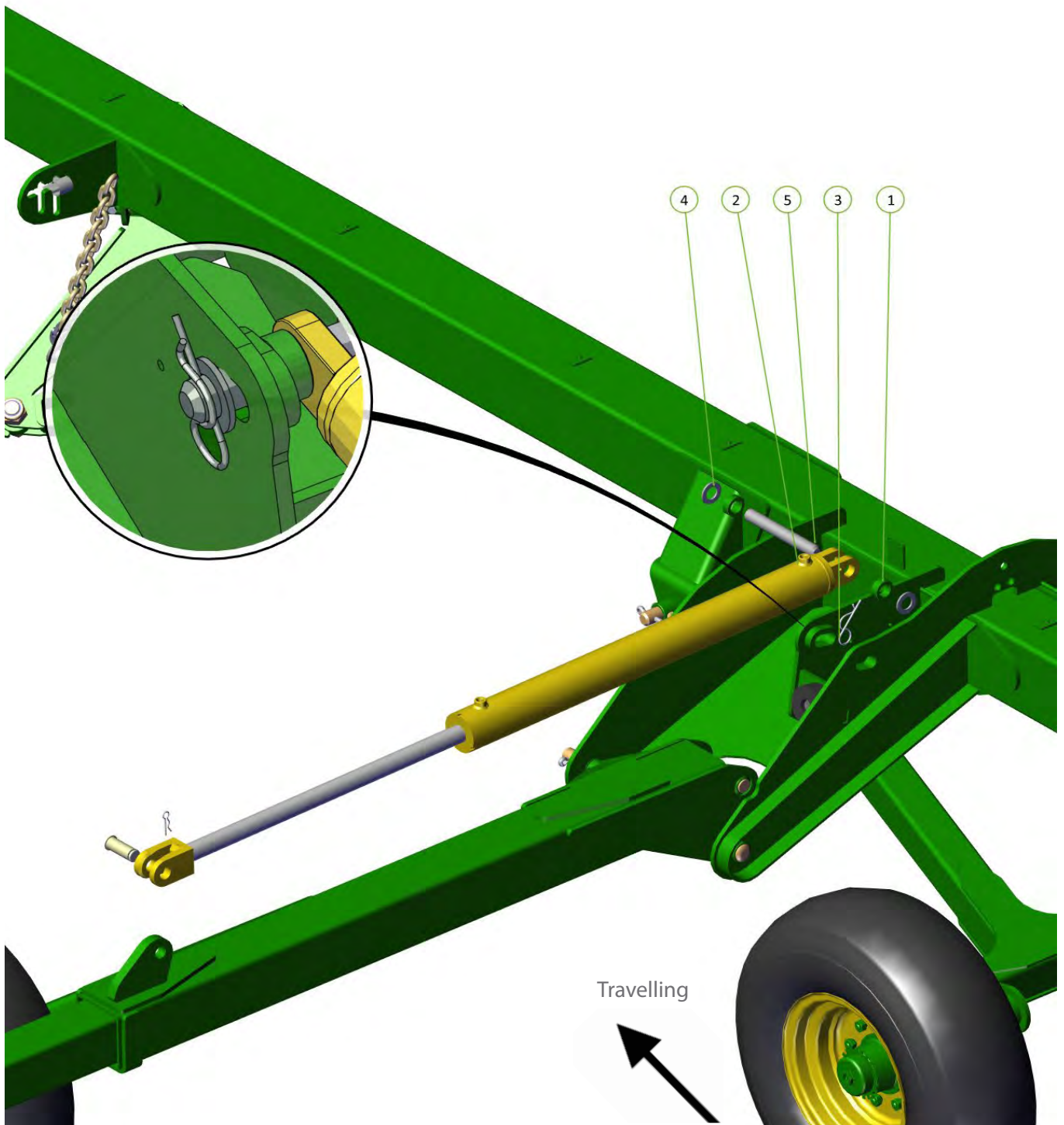


Item No.	Description	Qty	Number
1	Spacer bush	2	1501-325120
2	Cylinder Pin 1 1/4" x 245mm	1	1501-44102956
3	Washer Flat M30	2	0231-F30
4	S Locking Pin Clip 5mm	2	0801-KE012
5	3.5" Bore x 32" Stroke 1.75" Rod Cylinder	1	0313-3532ST

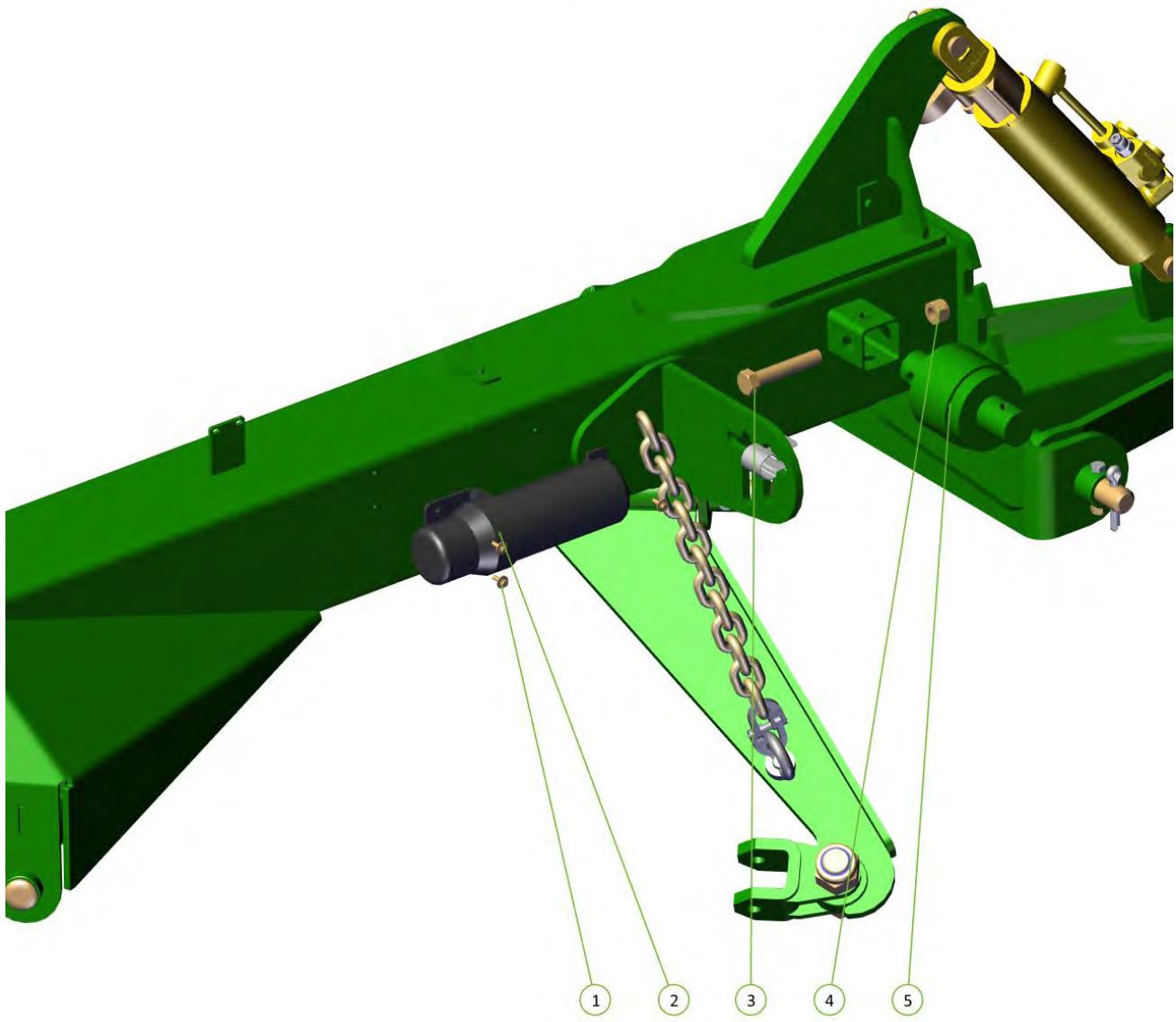




Item No.	Description	Qty	Number
1	Spacer bush	2	1501-325120
2	3.5" Bore x 32" Stroke 1.75" Rod Cylinder	1	0313-3532ST
3	S Locking Pin Clip 5mm	2	0801-KE012
4	Washer Flat M30	2	0231-F30
5	Cylinder Pin 1 1/4" x 245mm	1	1501-44102956



Item No.	Description	Qty	Number
1	M6 x 20mm Trilobe Screw	3	0211-M620MZPHTF
2	OPERATOR MANUAL CANNISTER	1	0801-OMC
3	M20 x 110 grade 10.9 ZP Short Thread Bolt	1	0211-20110 ST
4	Nyloc Nut M20	1	0221-NYL20
5	20mm Bolt Swivel Unit	1	0802-PCHB55



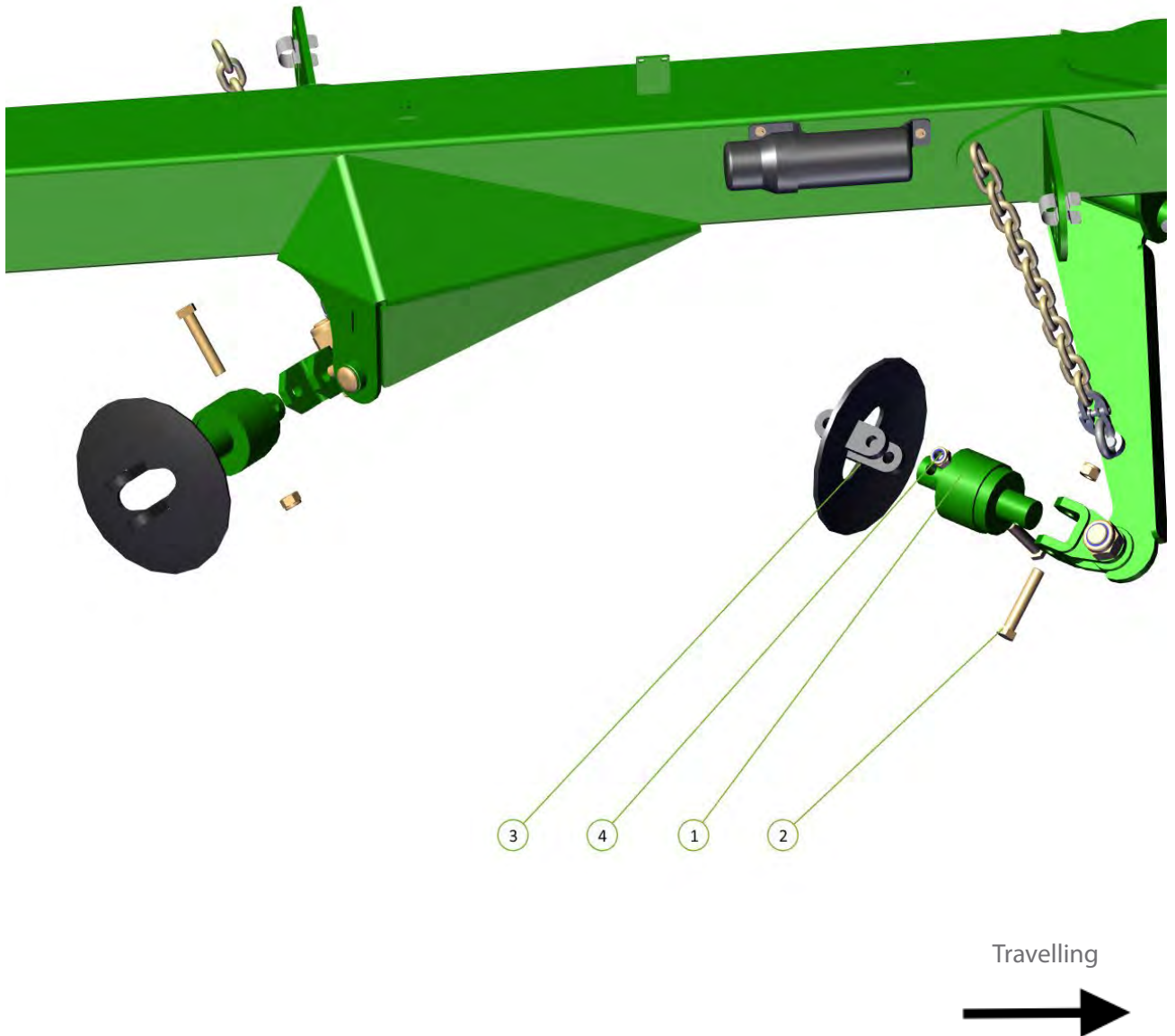
Travelling



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

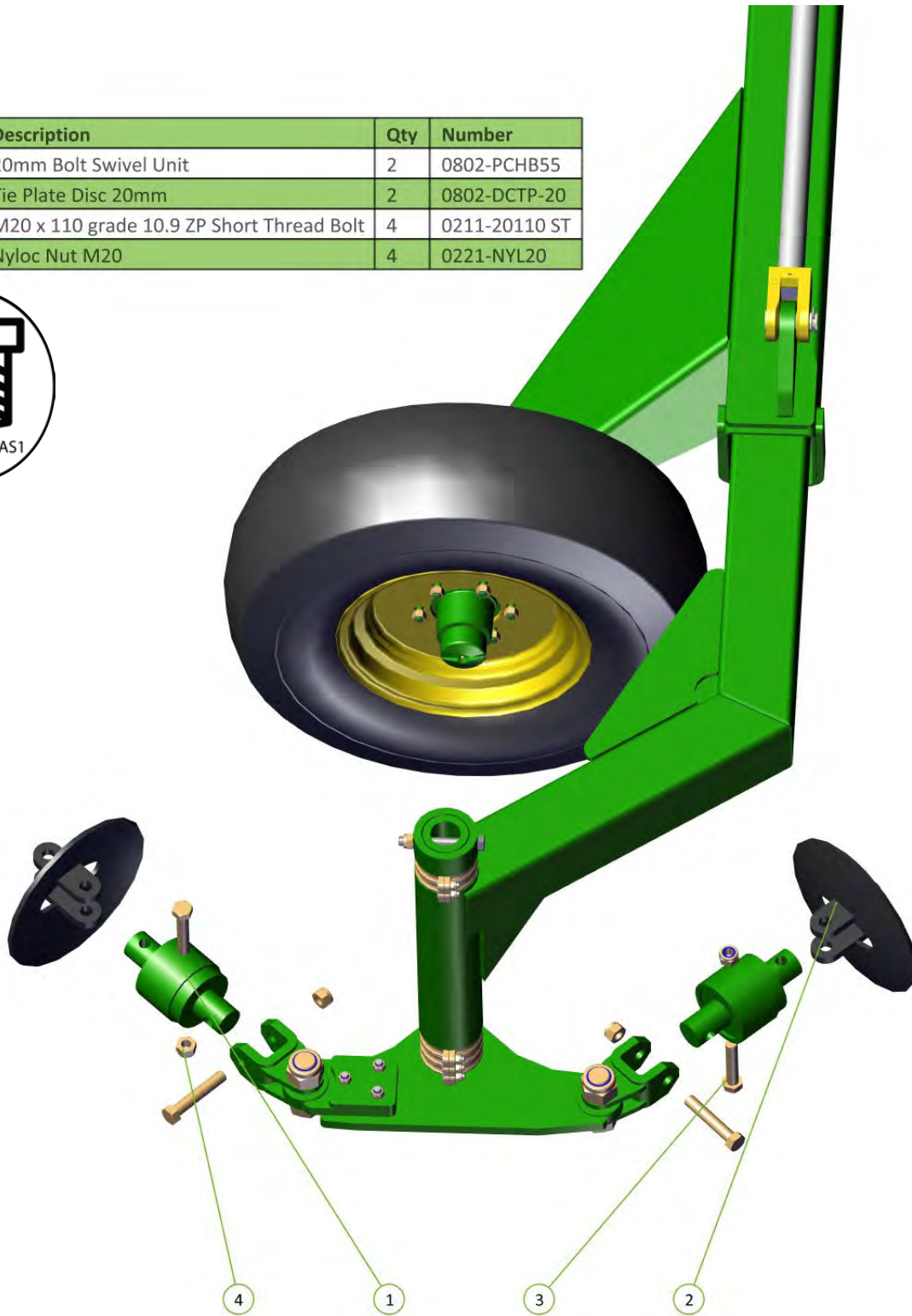


Please ensure bearings are installed with the seals facing to the rear of the machine, failure to do so may result in premature bearing failure





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



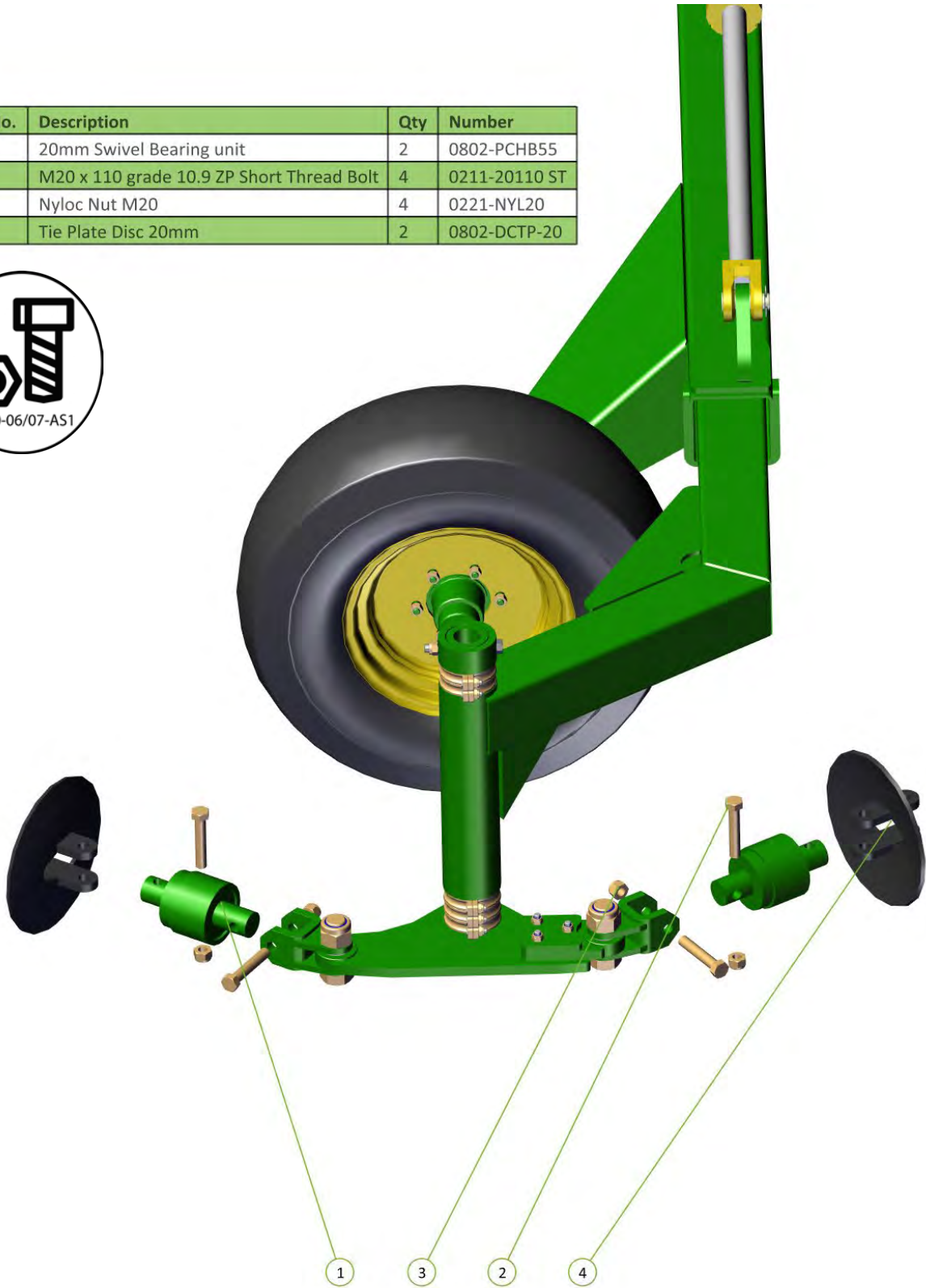
Please ensure bearings are installed with the seals facing to the rear of the machine, failure to do so may result in premature bearing failure

Travelling





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



Please ensure bearings are installed with the seals facing to the rear of the machine, failure to do so may result in premature bearing failure

Travelling



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

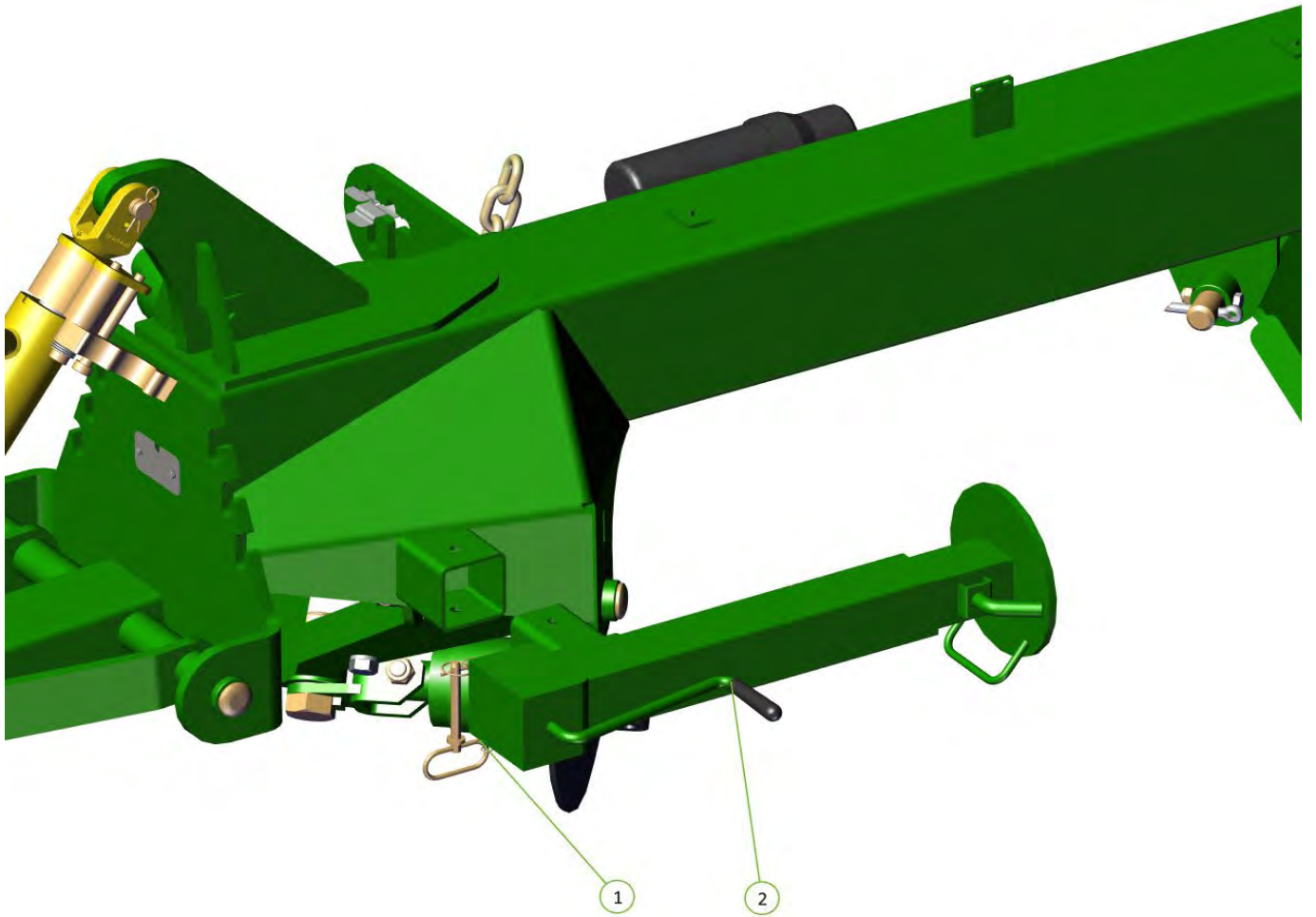


Please ensure bearings are installed with the seals facing to the rear of the machine, failure to do so may result in premature bearing failure



Travelling

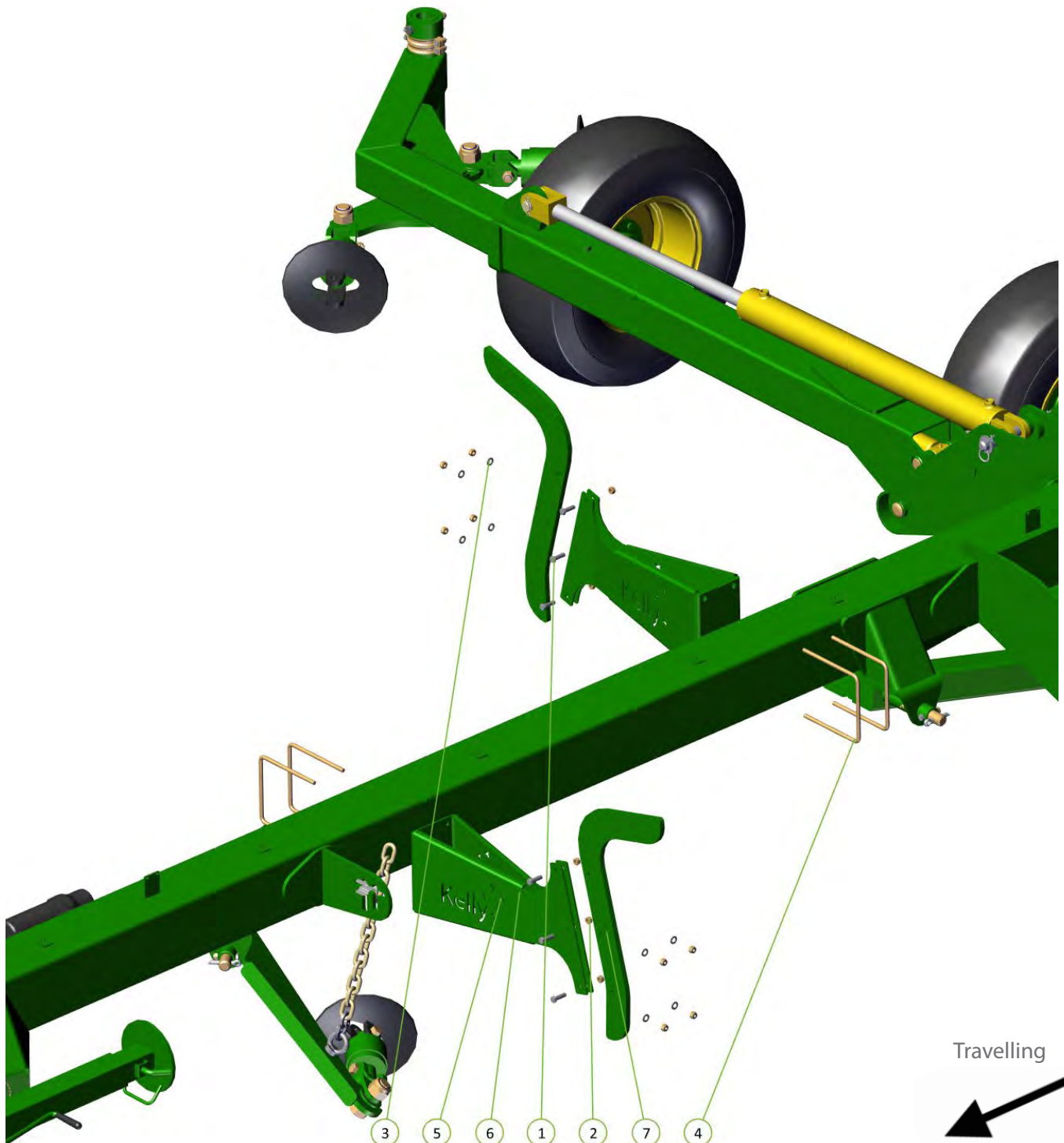
Item No.	Description	Qty	Number
1	Jack Pin	1	0801-B3077
2	3 Tonne Drop Leg Jack & Mounting assy	1	0801-JACK3T



Item No.	Description	Qty	Number
1	M12 x 40 grade 8.8 ZP Bolt	6	0211-1240
2	Nyloc Nut M12	14	0221-NYL12
3	Washer Flat M12	8	0231-F12
4	U-Bolt M12 x 225 Deep x 202 Wide	4	0271-12225202
5	Chain Carrier Web LH Side	2	1500-086
6	Chain Carrier Web RH Side	2	1500-085
7	Chain Catch 6M	2	1500-084



See page 46 for chain carrier locations

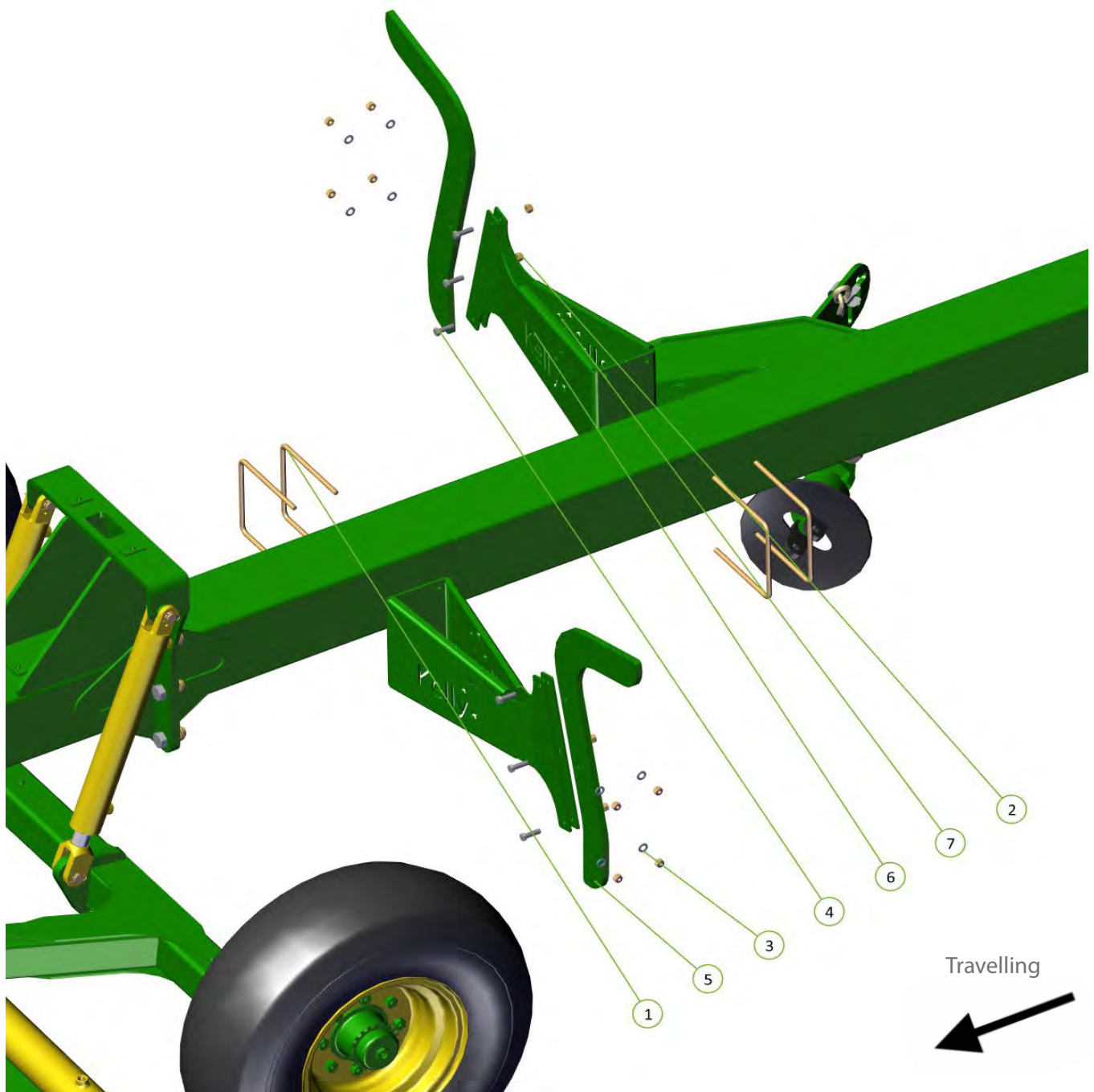


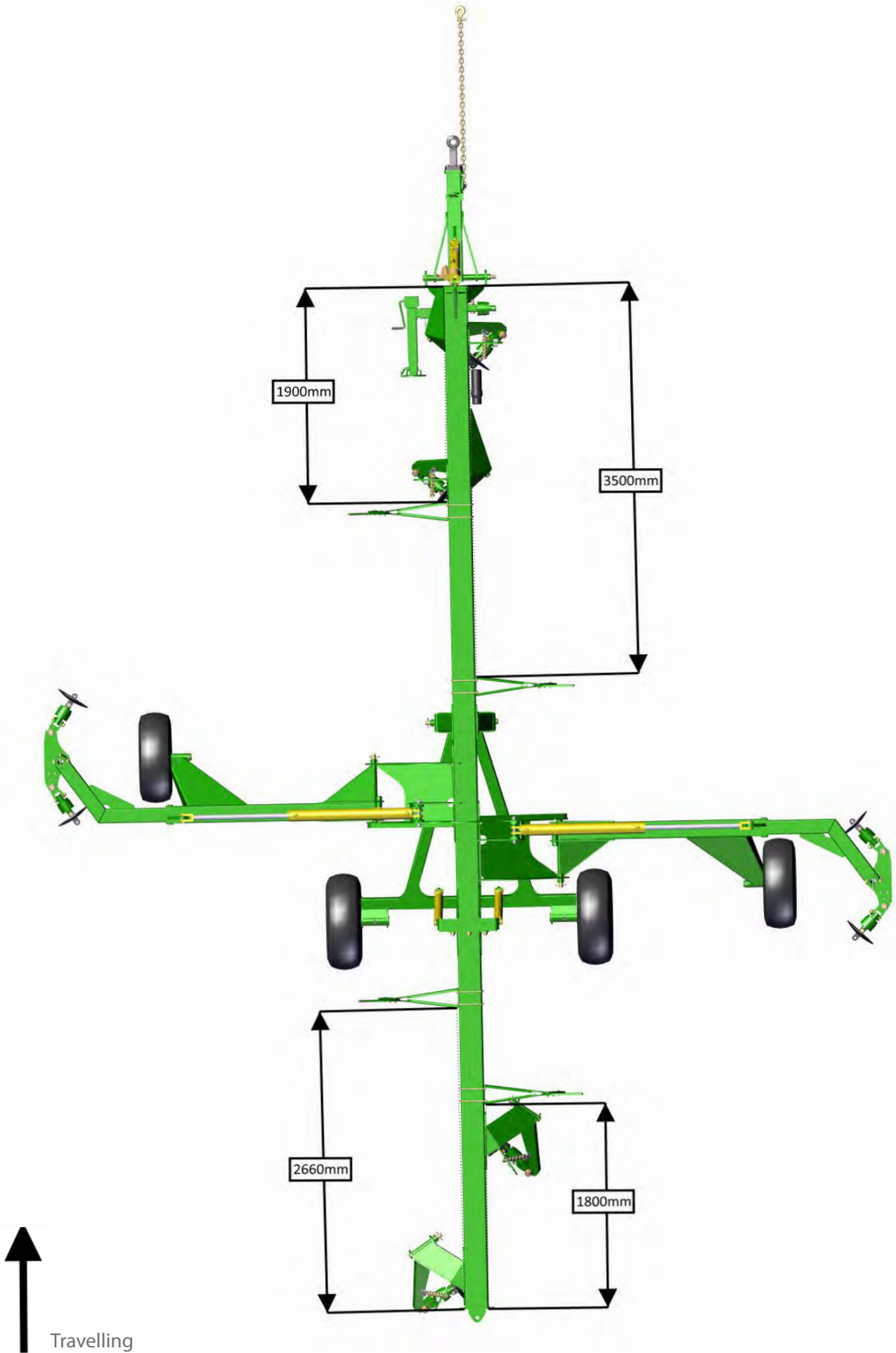


Item No.	Description	Qty	Number
1	U-Bolt M12 x 225 Deep x 202 Wide	4	0271-12225202
2	Nyloc Nut M12	14	0221-NYL12
3	Washer Flat M12	8	0231-F12
4	M12 x 40 grade 8.8 ZP Bolt	6	0211-1240
5	Chain Catch 6M	2	1500-084
6	Chain Carrier Web RH Side	2	1500-085
7	Chain Carrier Web LH Side	2	1500-086



See page 46 for chain carrier locations

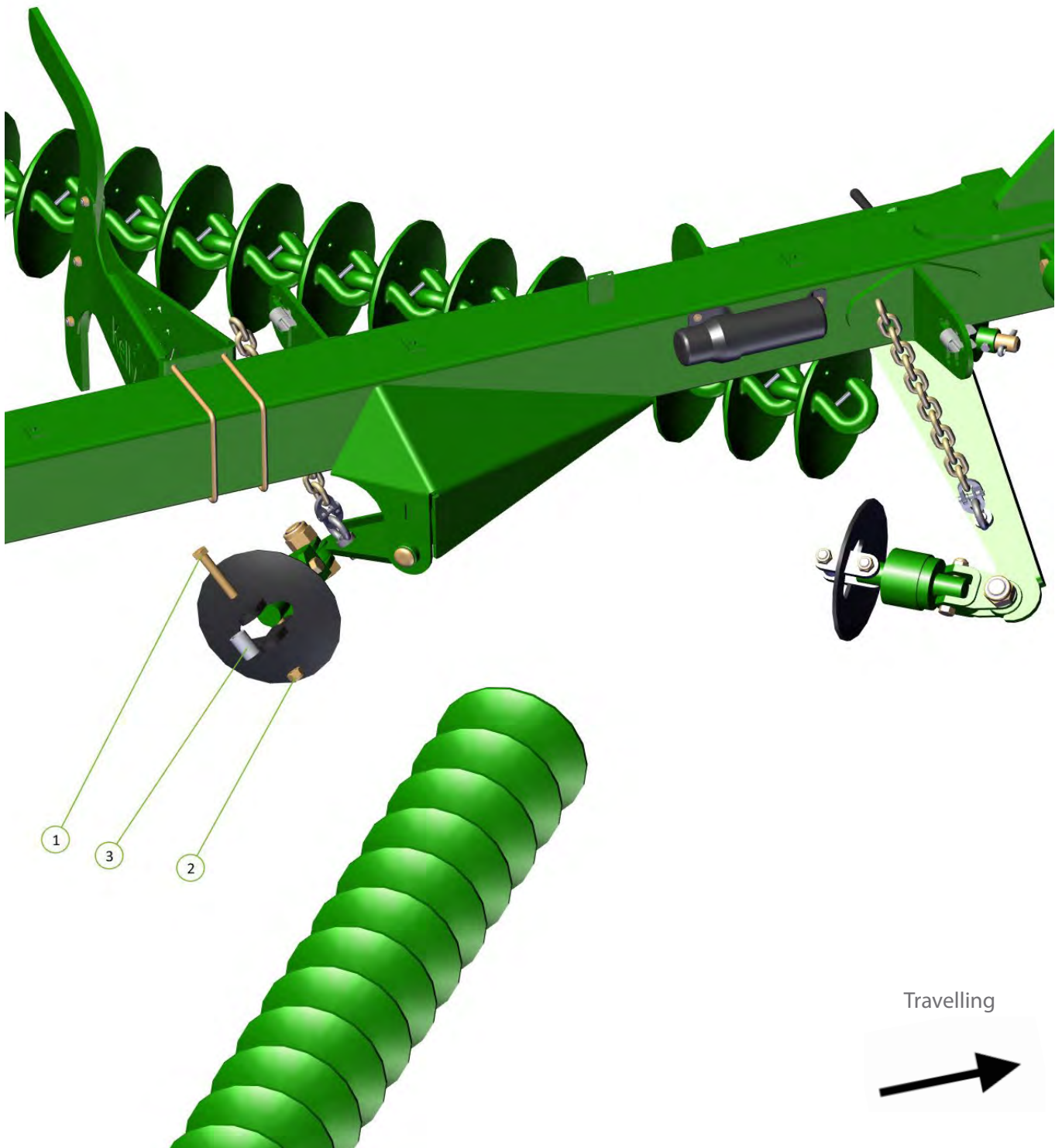




Item No.	Description	Qty	Number
1	M20 x 110 grade 10.9 ZP Short Thread Bolt	2	0211-20110 ST
2	Nyloc Nut M20	2	0221-NYL20
3	Disc Chain Spacer	2	0801-PCDCS55

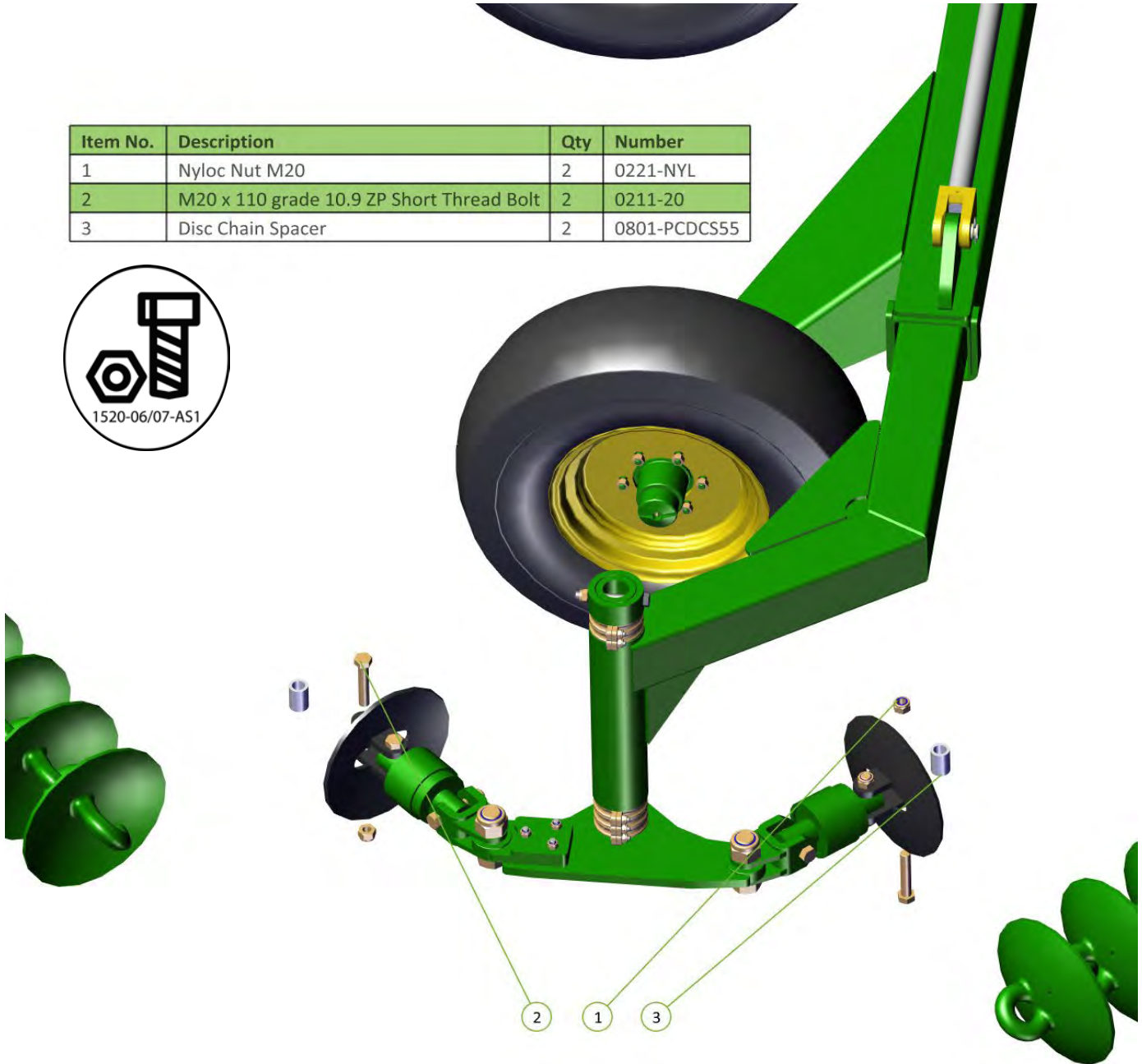


See page 51 for chain lengths





Item No.	Description	Qty	Number
1	Nyloc Nut M20	2	0221-NYL
2	M20 x 110 grade 10.9 ZP Short Thread Bolt	2	0211-20
3	Disc Chain Spacer	2	0801-PCDCS55



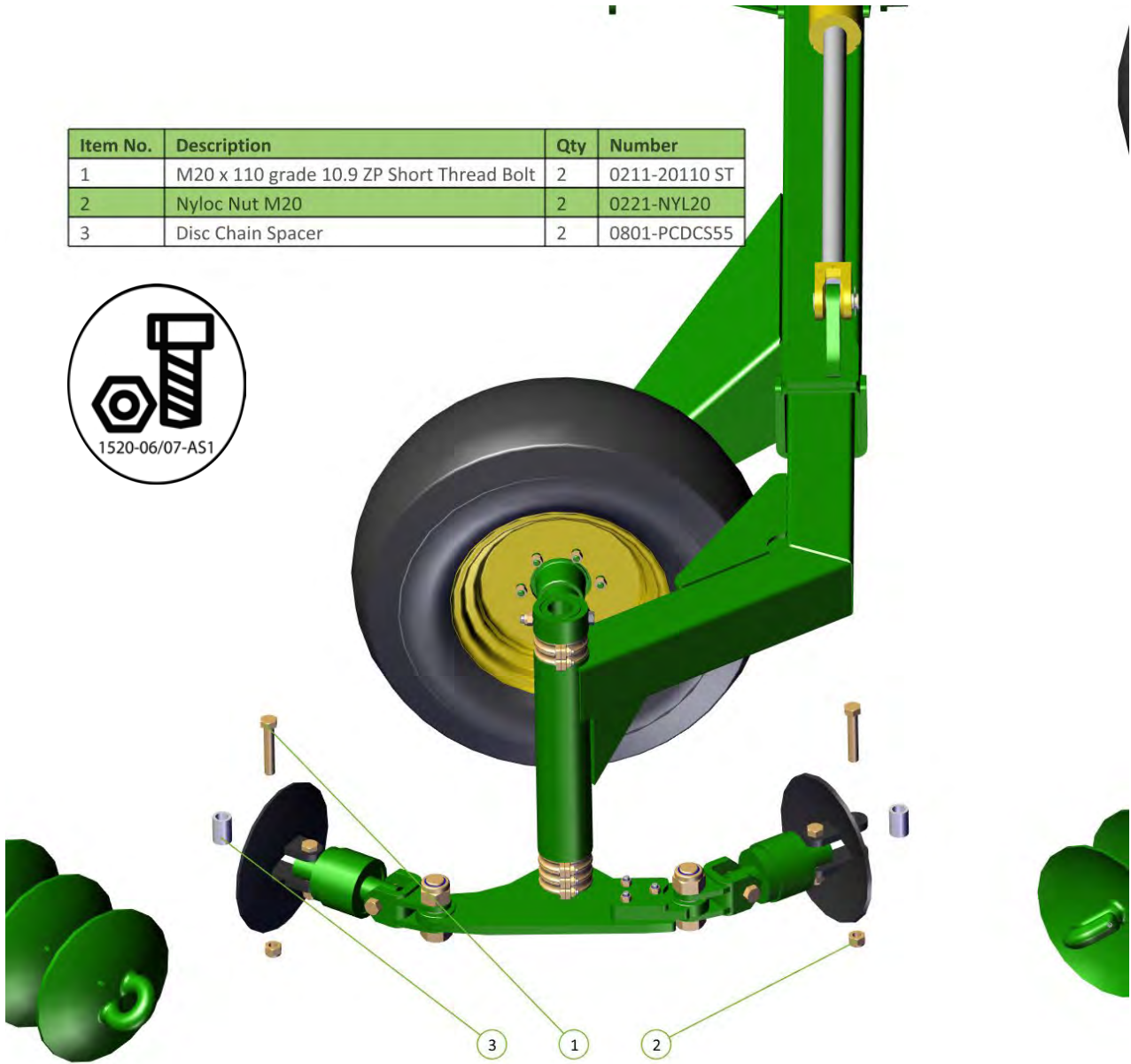
See page 51 for chain lengths

Travelling

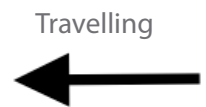




Item No.	Description	Qty	Number
1	M20 x 110 grade 10.9 ZP Short Thread Bolt	2	0211-20110 ST
2	Nyloc Nut M20	2	0221-NYL20
3	Disc Chain Spacer	2	0801-PCDCS55



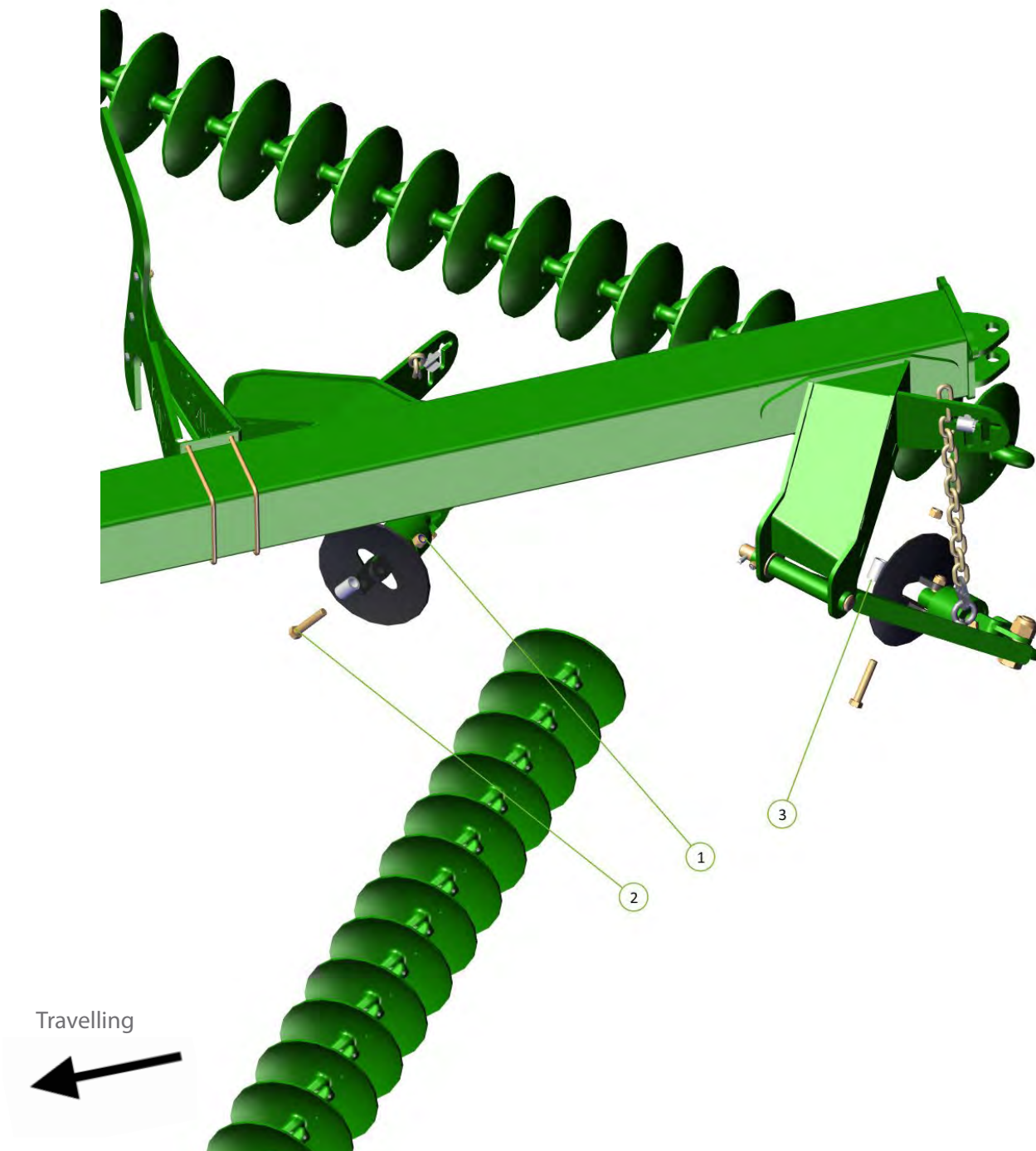
See page 51 for chain lengths



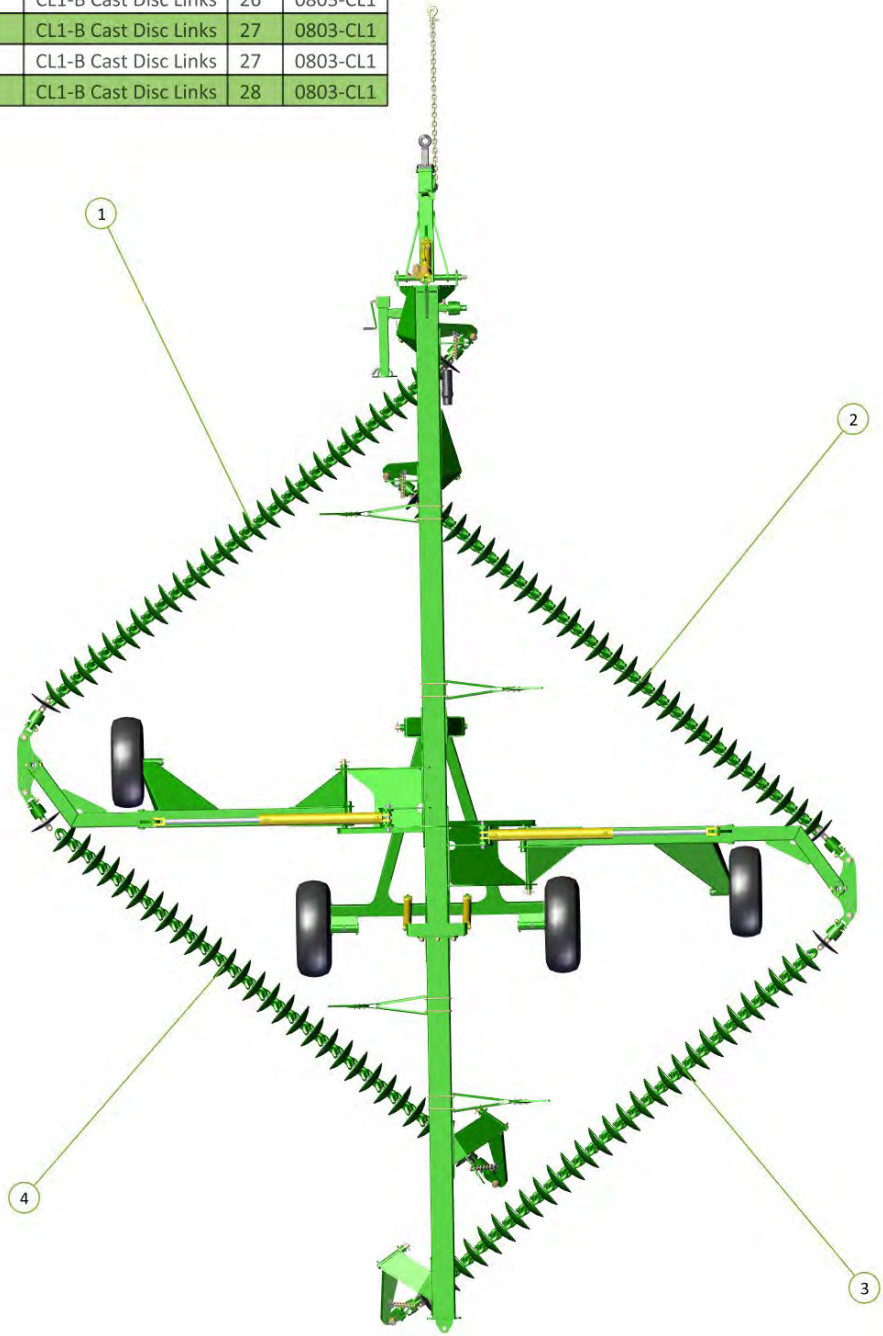
Item No.	Description	Qty	Number
1	Nyloc Nut M20	2	0221-NYL20
2	M20 x 110 grade 10.9 ZP Short Thread Bolt	2	0211-20110 ST
3	Disc Chain Spacer	2	0801-PCDCS55



See page 51 for chain lengths



Item No.	Description	Qty	Number
1	CL1-B Cast Disc Links	26	0803-CL1
2	CL1-B Cast Disc Links	27	0803-CL1
3	CL1-B Cast Disc Links	27	0803-CL1
4	CL1-B Cast Disc Links	28	0803-CL1



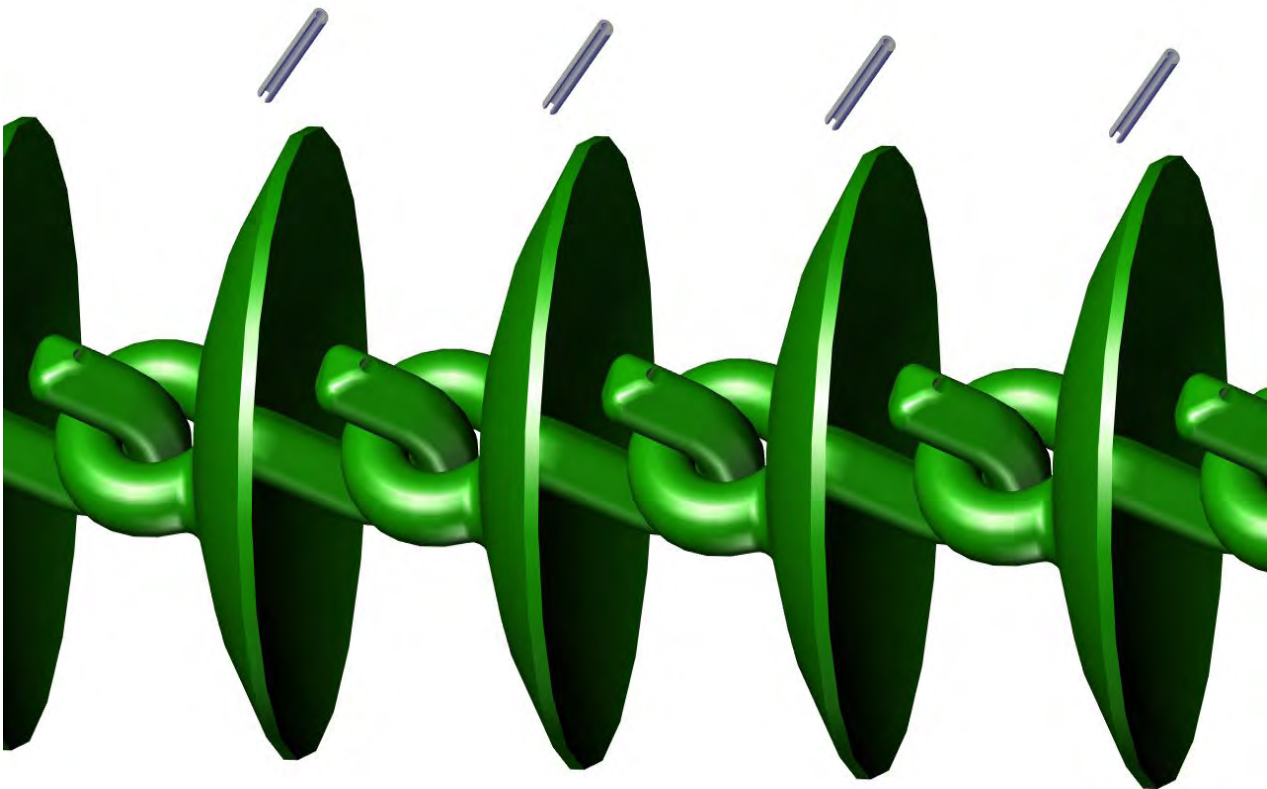
Travelling





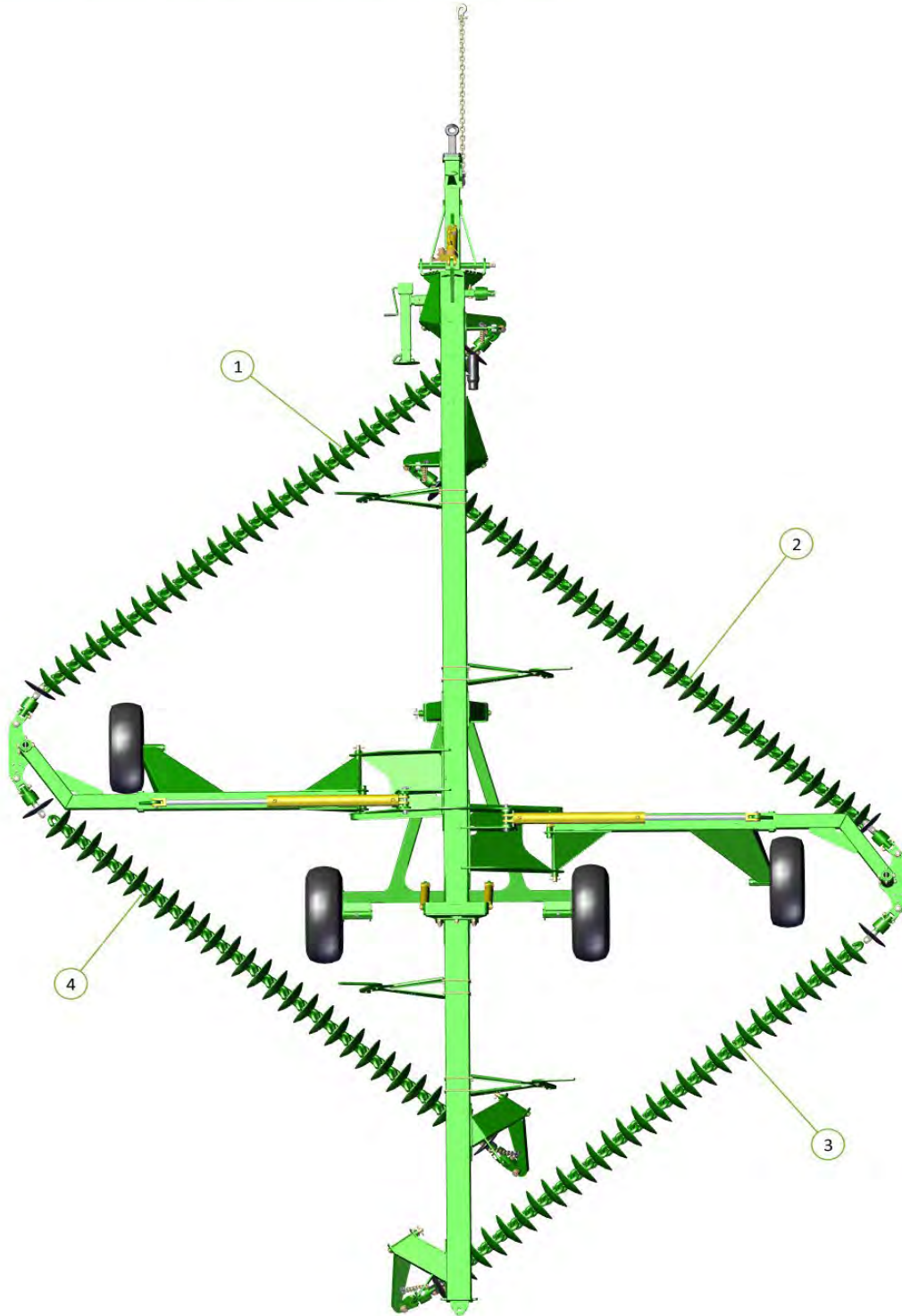
Use hammer to insert roll pins, to prevent chain becoming un-linked

To remove  
Bend protruding roll pin sideways and drive roll pin through hook hole





Item No.	Description	Qty	Number
1	Roll Pin Zinc Plated 3/8" x 3"	27	0262-3-8X3
2	Roll Pin Zinc Plated 3/8" x 3"	27	0262-3-8X3
3	Roll Pin Zinc Plated 3/8" x 3"	27	0262-3-8X3
4	Roll Pin Zinc Plated 3/8" x 3"	28	0262-3-8X3



Chain lengths are only a guide, After first use we recommend you retension the chain and take links out accordingly.

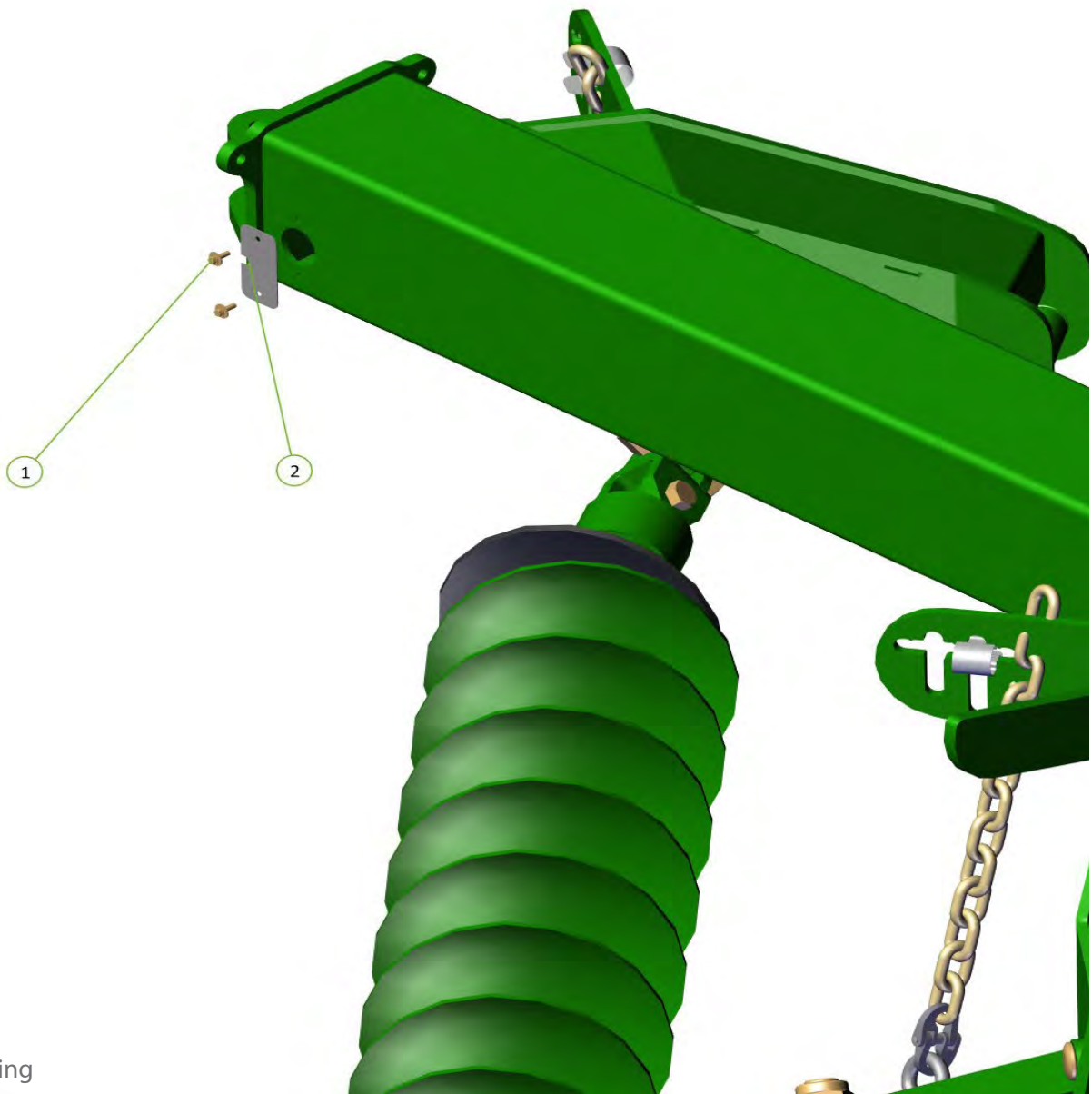
Travelling



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



On machines with lights, leave wiring capping plate loose until wiring is fed through main frame.



Travelling

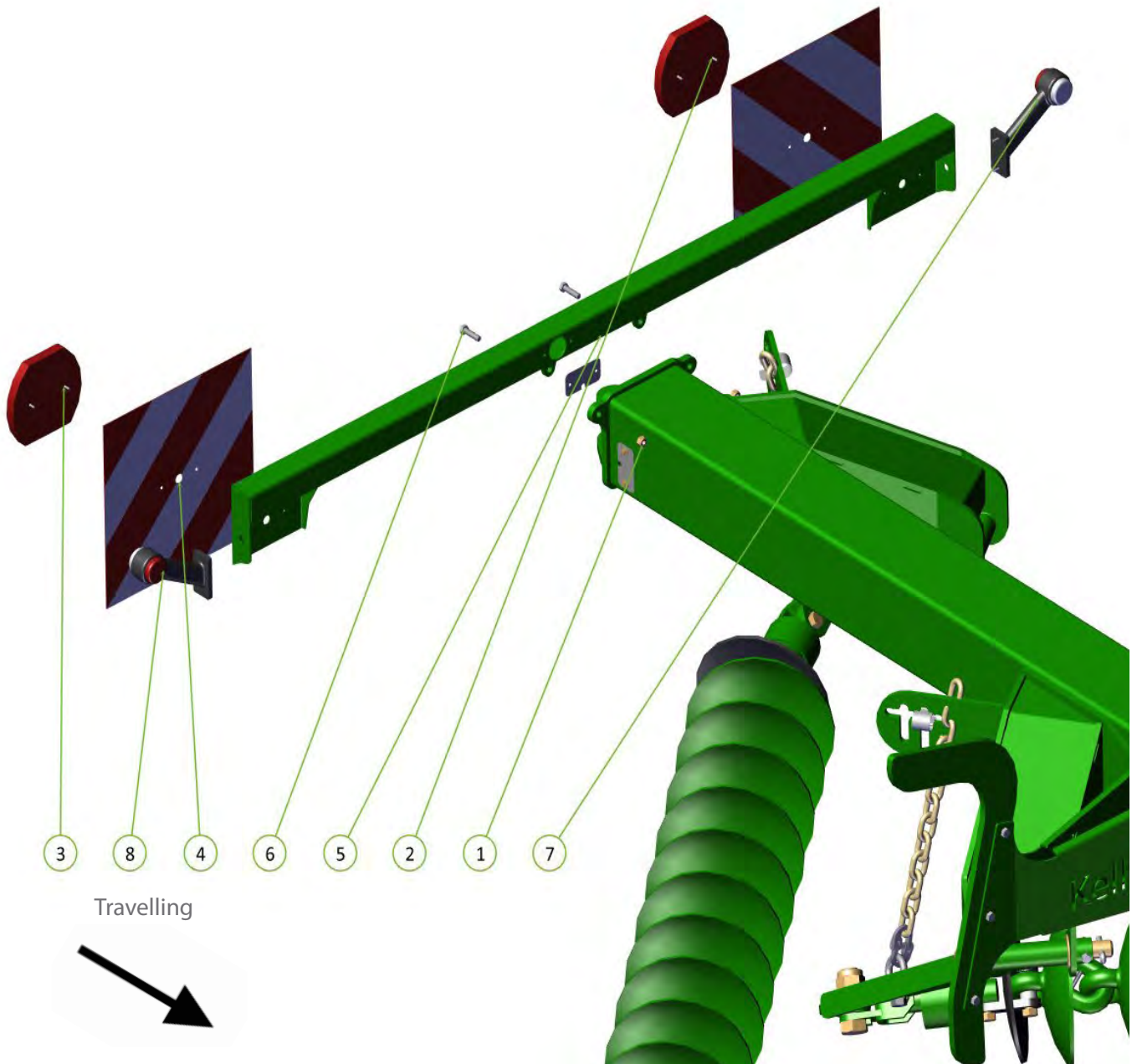


Item No.	Description	Qty	Number
1	Nyloc Nut M12	2	0221-NYL12
2	LED Combination Tail Light Left	1	0412-EU195L
3	LED Combination Tail Light Right	1	0412-EU195R
4	EU Oversize sign 6m rear	2	1501-EUOS
5	Sign and Light Bar	1	1510-27
6	M12 x 45 grade 8.8 ZP Bolt	2	0211-1245
7	Rubber Side Marker Lamp	1	0412-1004L
8	Rubber Side Marker Lamp	1	0412-1004R



Lights are only required for some countries, Please adhere to your local standards in regards to lighting and signage.

On machines with lights, leave wiring capping plate loose until wiring is fed through main frame.



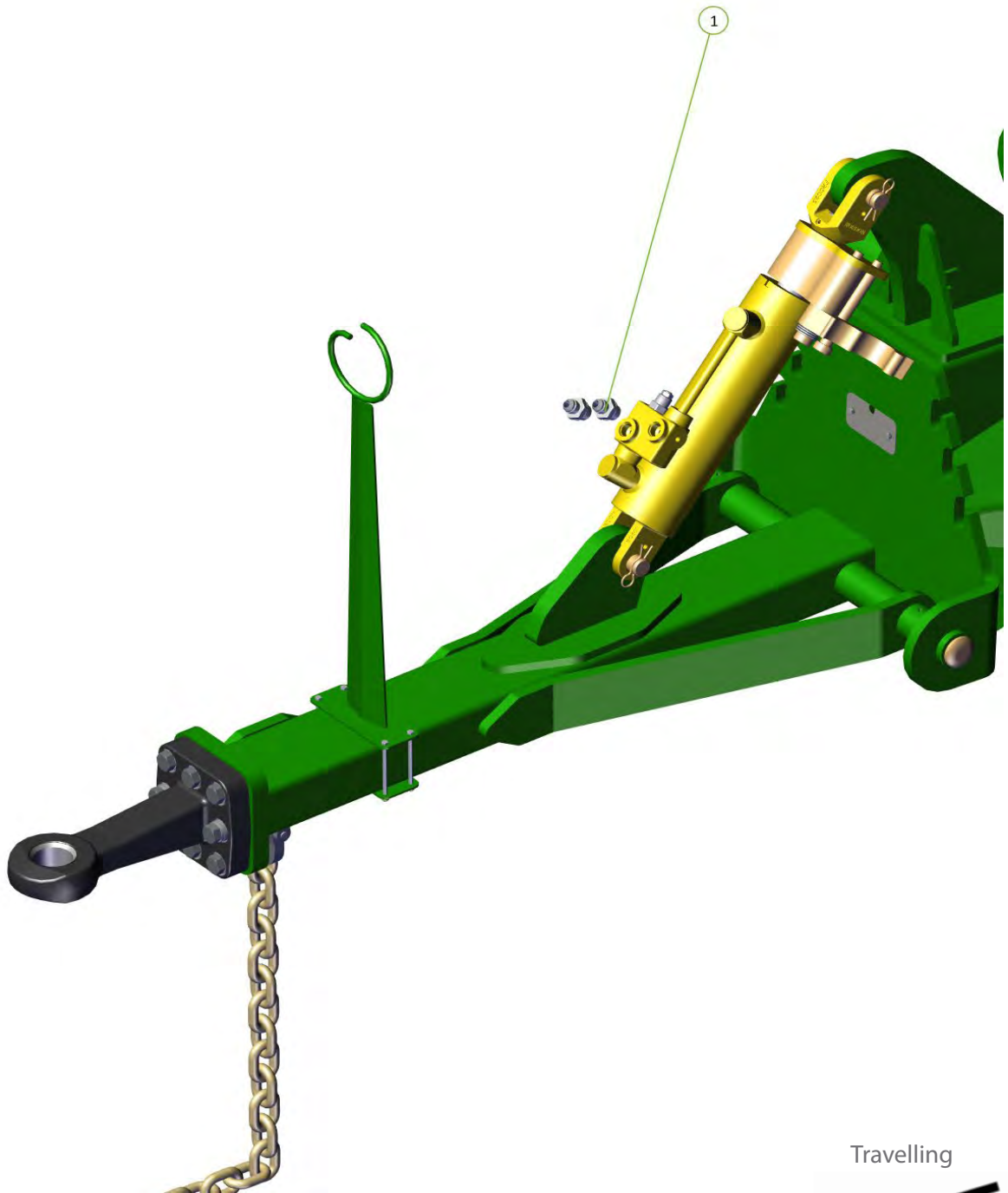
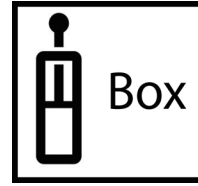
# Section 3

# Hydraulics

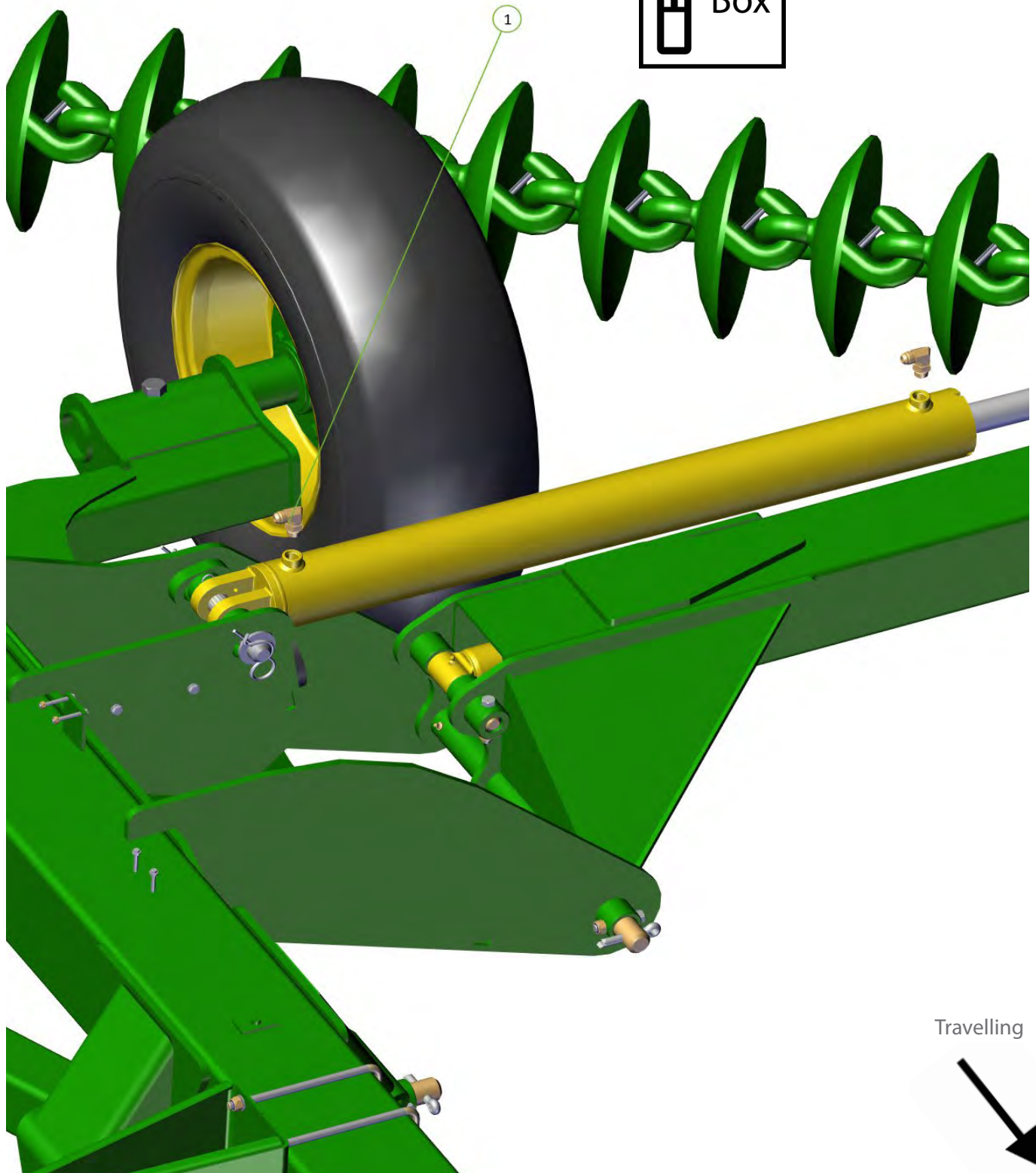
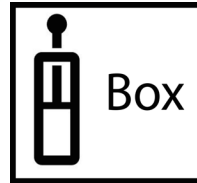
Please ensure all fittings are done up tight after every page to ensure fittings are all secure.



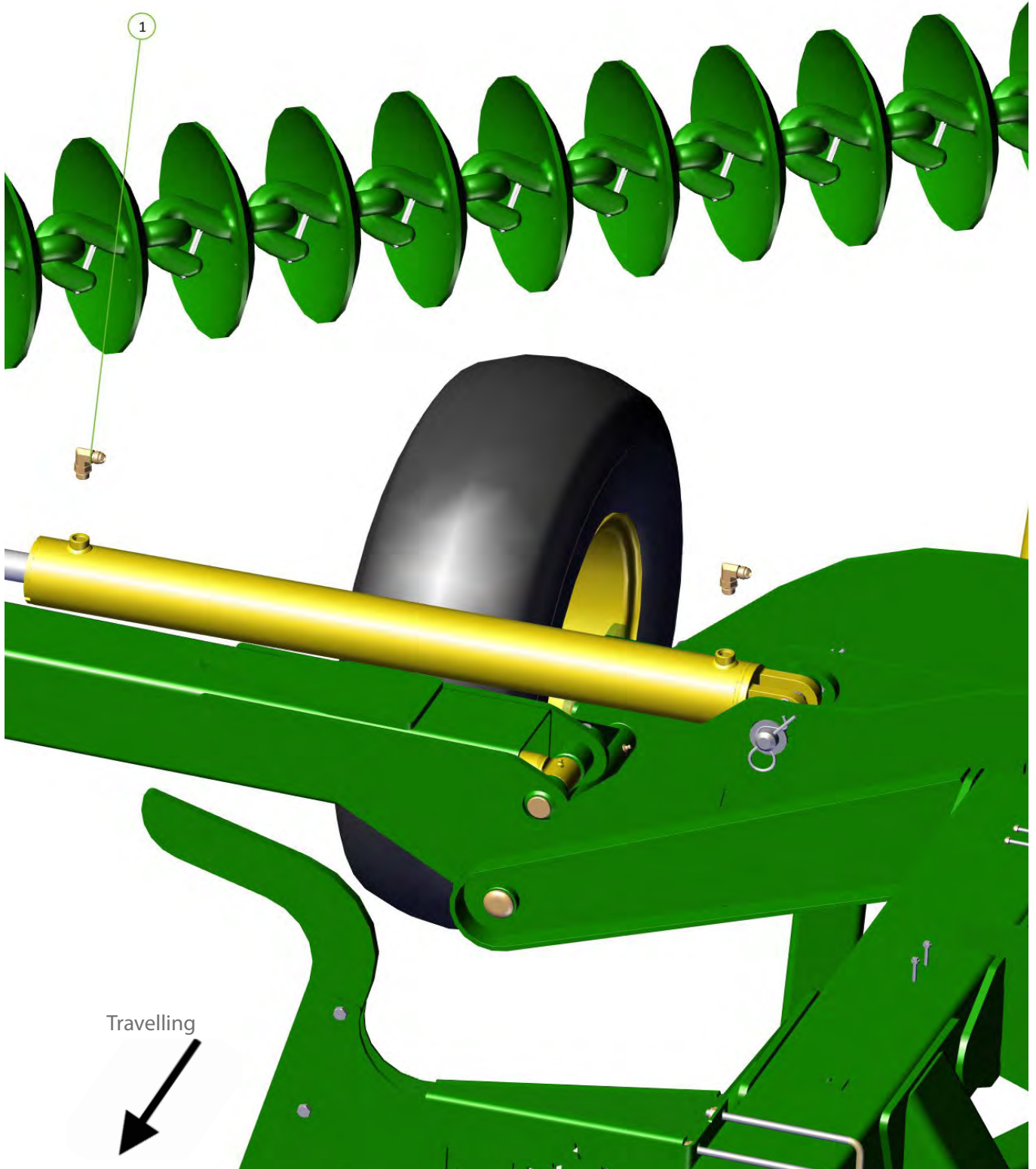
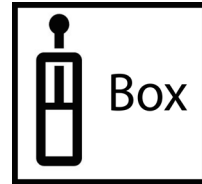
Item No.	Description	Qty	Number
1	JICM UNOM Nipple	2	0323-S90-1212



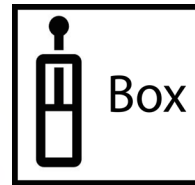
Item No.	Description	Qty	Number
1	JIC Male UNO Male 90° Elbow	2	0323-S91-1212



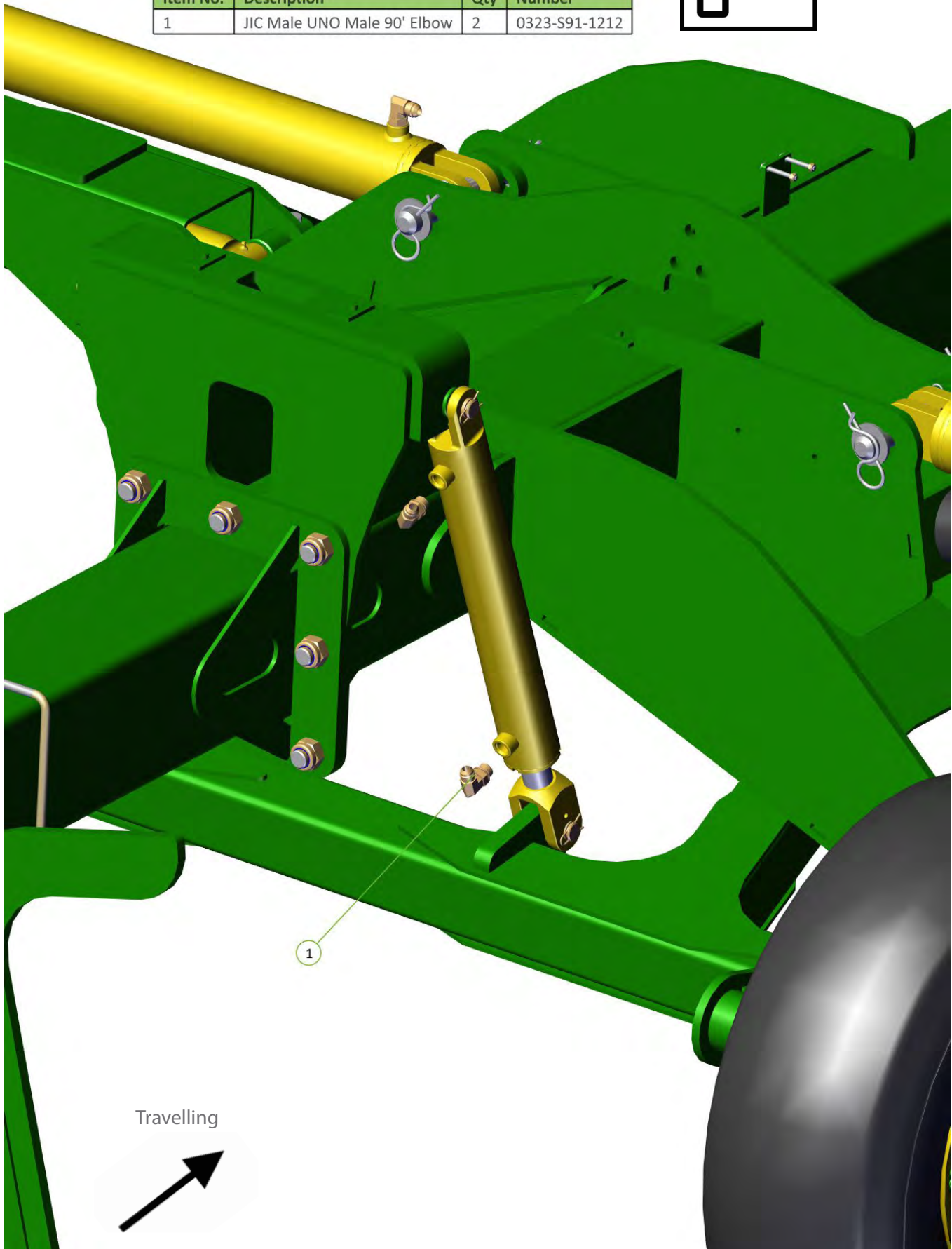
Item No.	Description	Qty	Number
1	JIC Male UNO Male 90° Elbow	2	0323-S91-1212





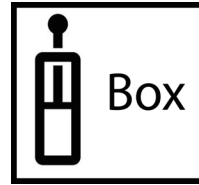


Item No.	Description	Qty	Number
1	JIC Male UNO Male 90° Elbow	2	0323-S91-1212



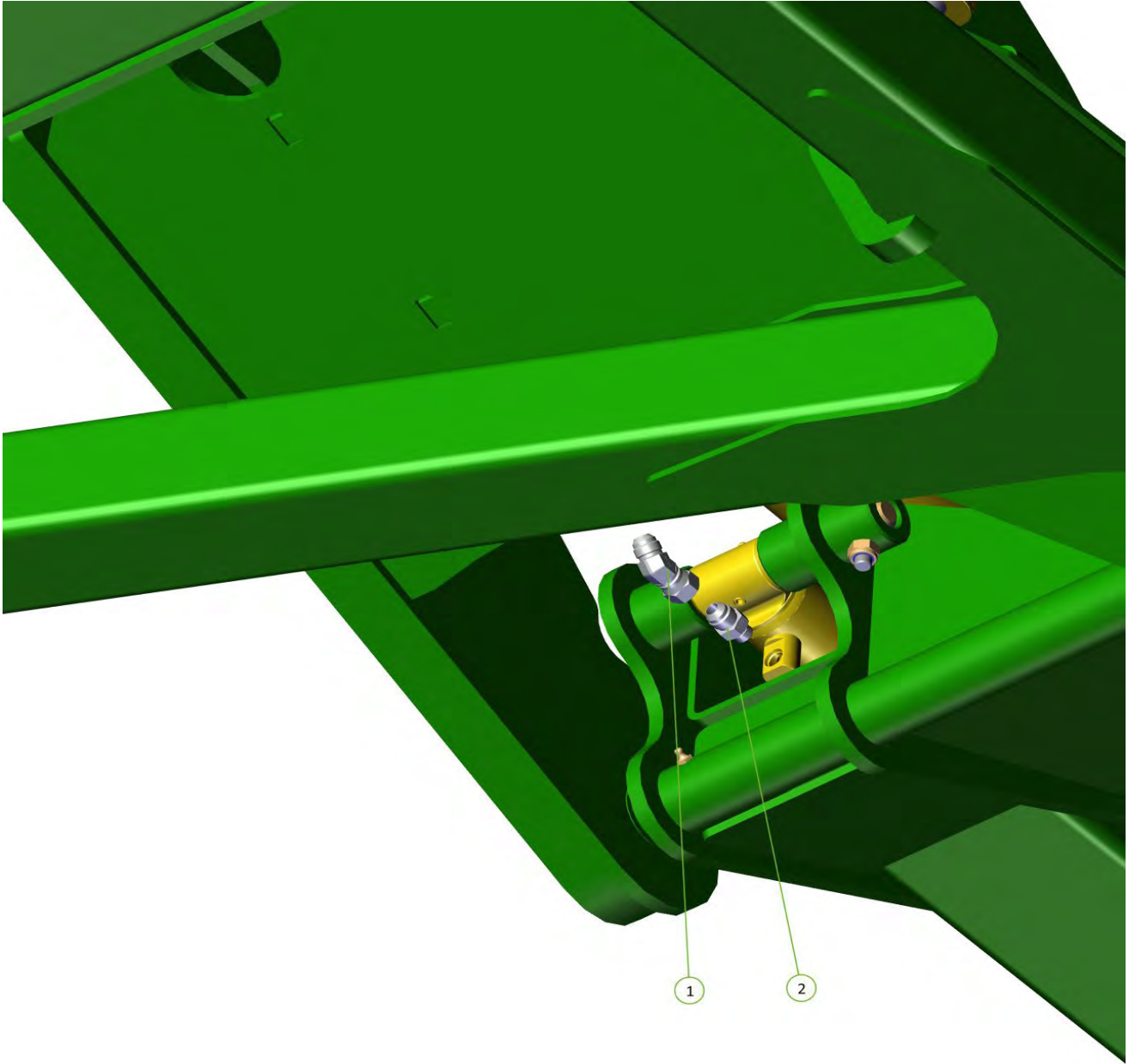


Item No.	Description	Qty	Number
1	JIC Male UNO Male 90° Elbow	2	0323-S91-1212

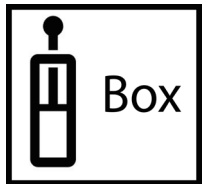


Travelling



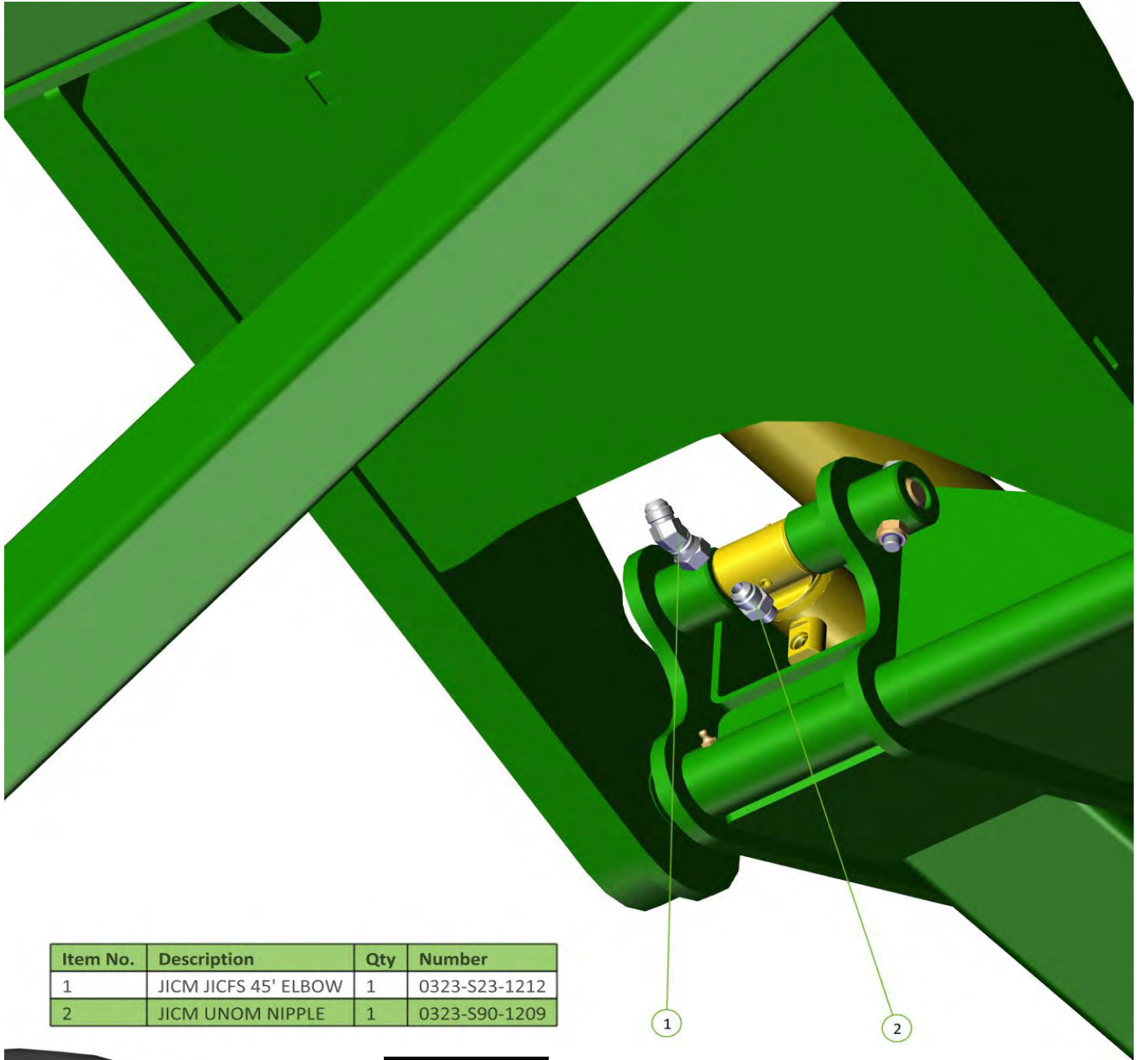


Item No.	Description	Qty	Number
1	JICM JICFS 45' ELBOW	1	0323-S23-1212
2	JICM UNOM NIPPLE	1	0323-S90-1209

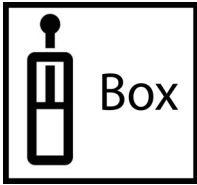


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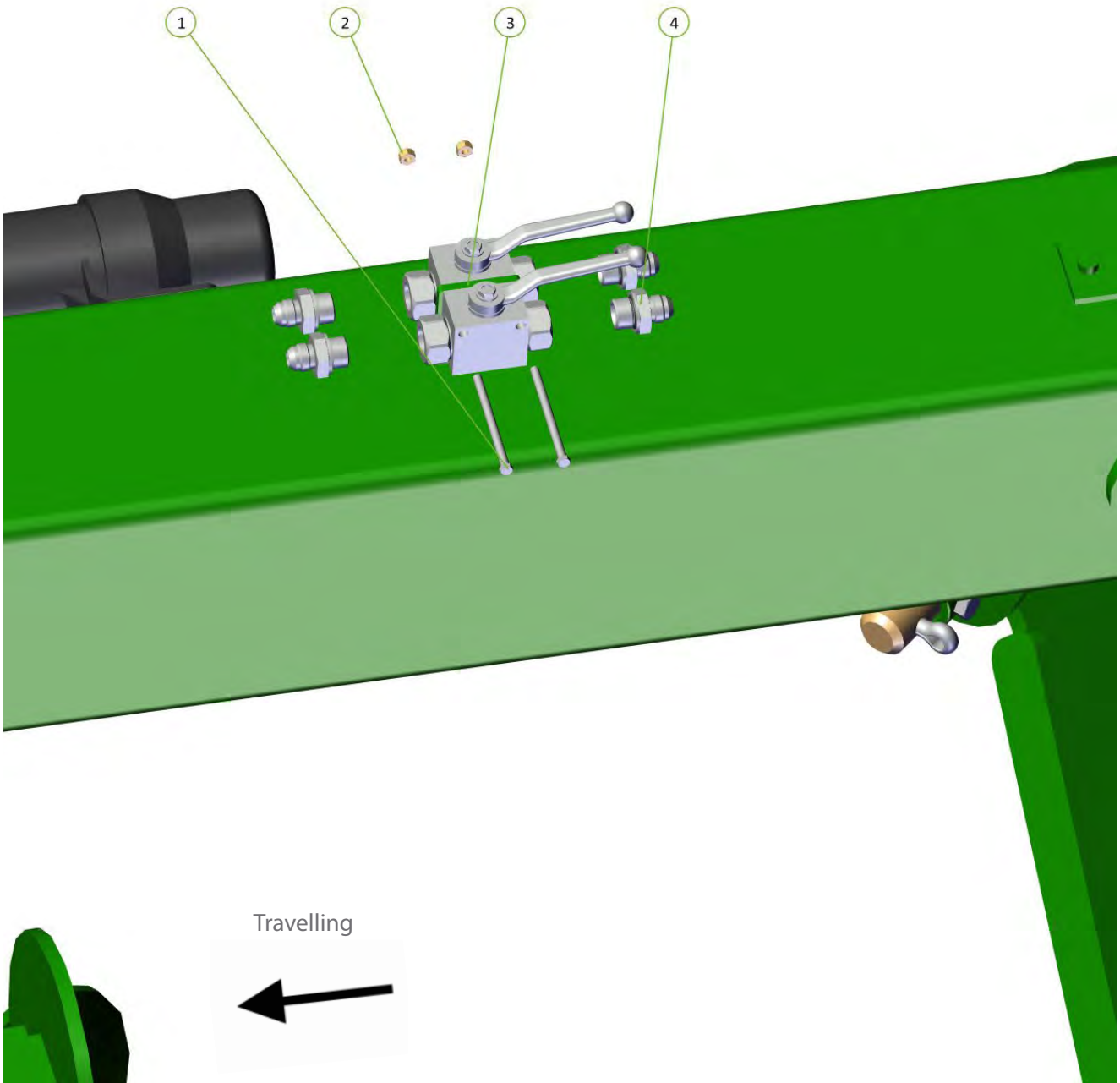
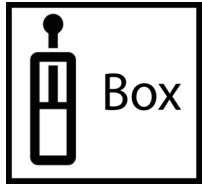


Item No.	Description	Qty	Number
1	JICM JICFS 45° ELBOW	1	0323-S23-1212
2	JICM UNOM NIPPLE	1	0323-S90-1209





Item No.	Description	Qty	Number
1	M6 grade 8.8 ZP Bolt	2	0211-685
2	Nyloc Nut M6	2	0221-NYL6
3	Ball Valve BSPP 1/2"	2	0341-RL20-0808
4	BSPP O Ring Male Jic Male Nipple	4	0323-S74-0812





Item No.	Description	Qty	Number
1	M6 x 1 x 50mm Grade 4.6 ZP Bolt	4	0211-650
2	Nyloc Nut M6	2	0221-NYL6
3	Washer Flat M6	4	0231-F6
4	M6 Spring Washer	2	0231-S6
5	Ball Valve BSPP 1/2"	1	0341-RL20-0808
6	JICM JICM BSPPOM TEE	1	0324-S79-121208
7	Line Body for PRV	1	0341-7024380
8	Pressure Reducing/ Relieving Valva Cartridge	1	0341-PR50-36A0P30
9	JIC FEMALE UNO RING MALE	1	0323-S101-1212
10	JICM UNOM JICM TEE	1	0324-S87-121212
11	BSPP O Ring Male Jic Male Nipple	1	0323-S74-0812
12	JIC Male UNO Male 90° Elbow	1	0323-S91-1212

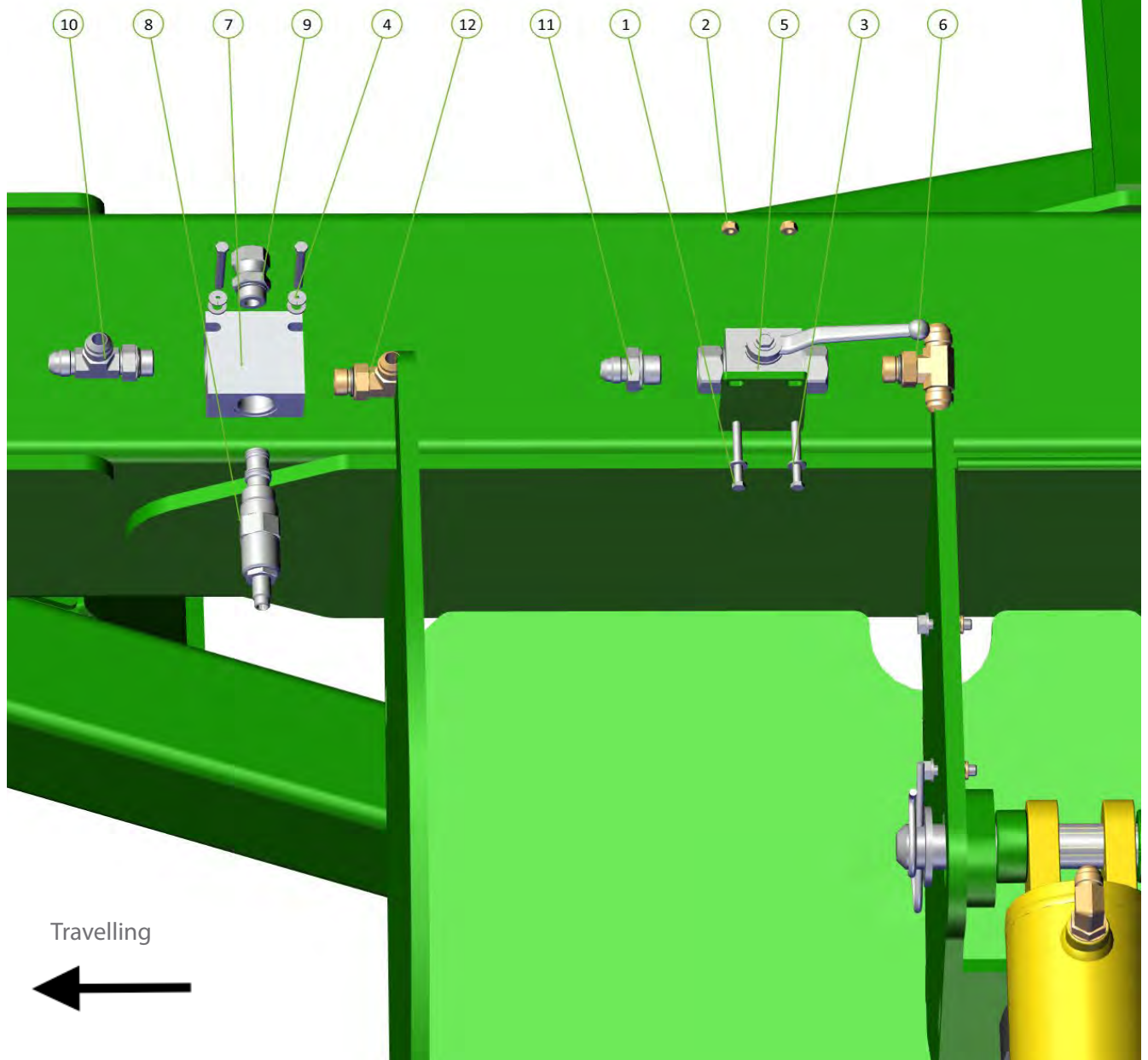
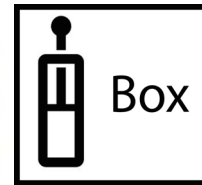
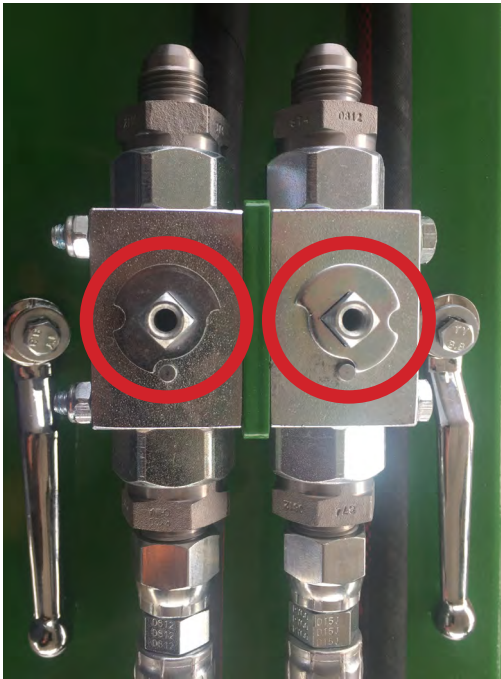


Image 1



**Please Note-**

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 outward on the  
machine. (as seen in image 3)

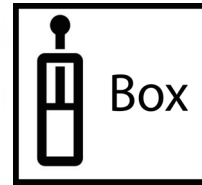
Image 2



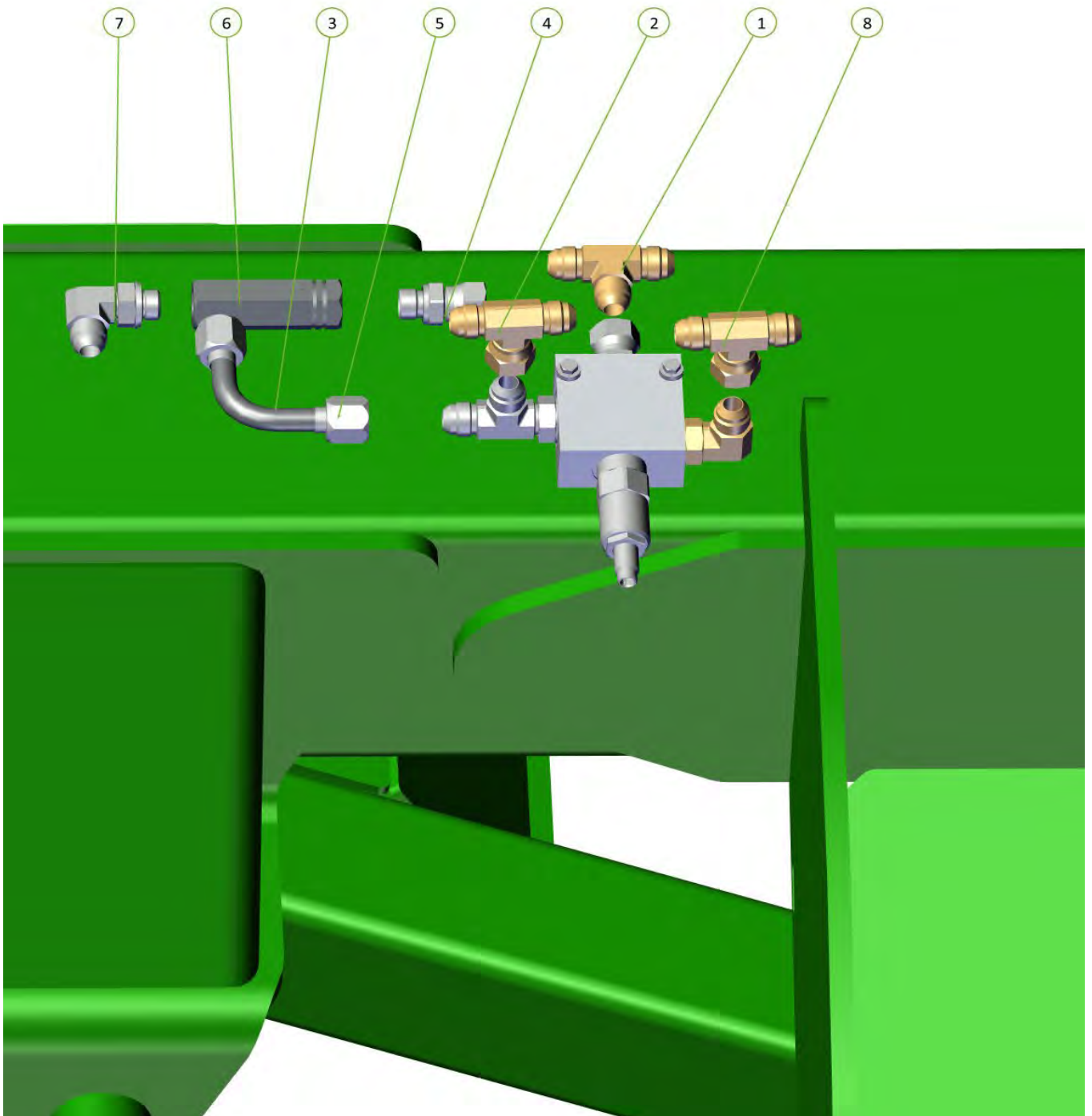
Image 3



Item No.	Description	Qty	Number
1	JICM JICM JICM TEE	1	0324-S19-121212
2	JICM JICM JICFS TEE	1	0324-S68-121212
3	ACCUM-VALVE-P2	1	0323-ACCUM-VALVE-P2
4	BSP POM JICFS ADAPTOR	1	0323-S71-0612
5	JIC Tube Nut	2	0323-S6-1208
6	3/8" BSP Port Check Valve	1	0341-RCV-0606
7	BSP POM JICM 90' ELBOW	1	0323-S76-0612
8	JICM JICM JICFS TEE	1	0324-S68-121212

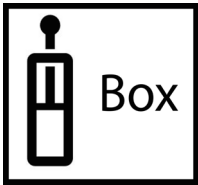


Travelling

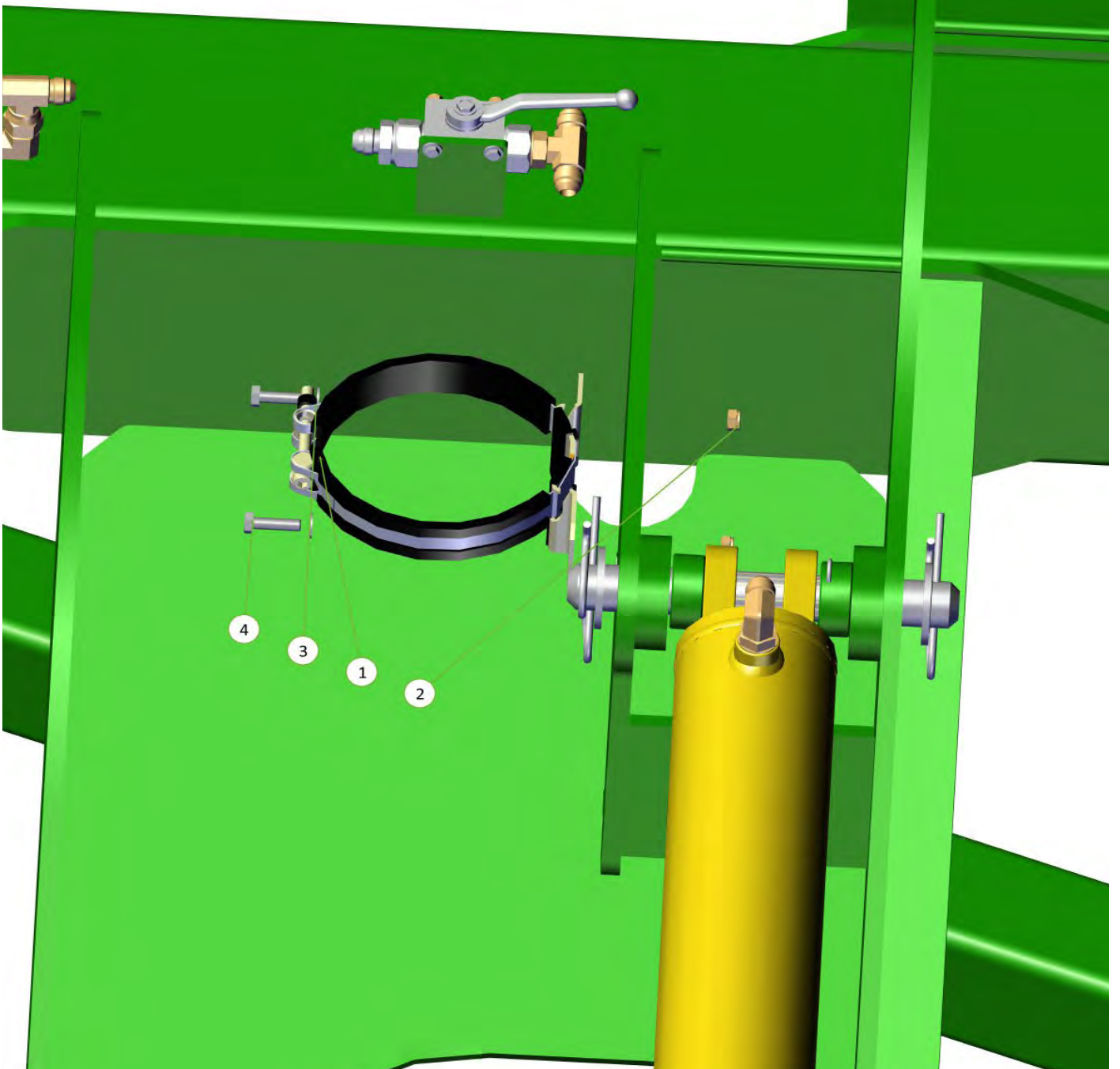




Item No.	Description	Qty	Number
1	HYRAC 143-151 (151)	1	0343-ACCUCLAMP-143-151
2	Nyloc Nut M8	2	0221-NYL8
3	Washer Flat M8	2	0231-F8
4	M8 x 30 grade 8.8 ZP Bolt	2	0211-830

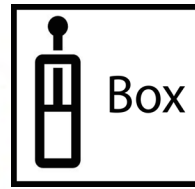


Travelling





Item No.	Description	Qty	Number
1	1.4L Accumulator	1	0343-SBO210-1.4EI
2	JICM JICM BSP POM TEE	1	0324-S79-121208

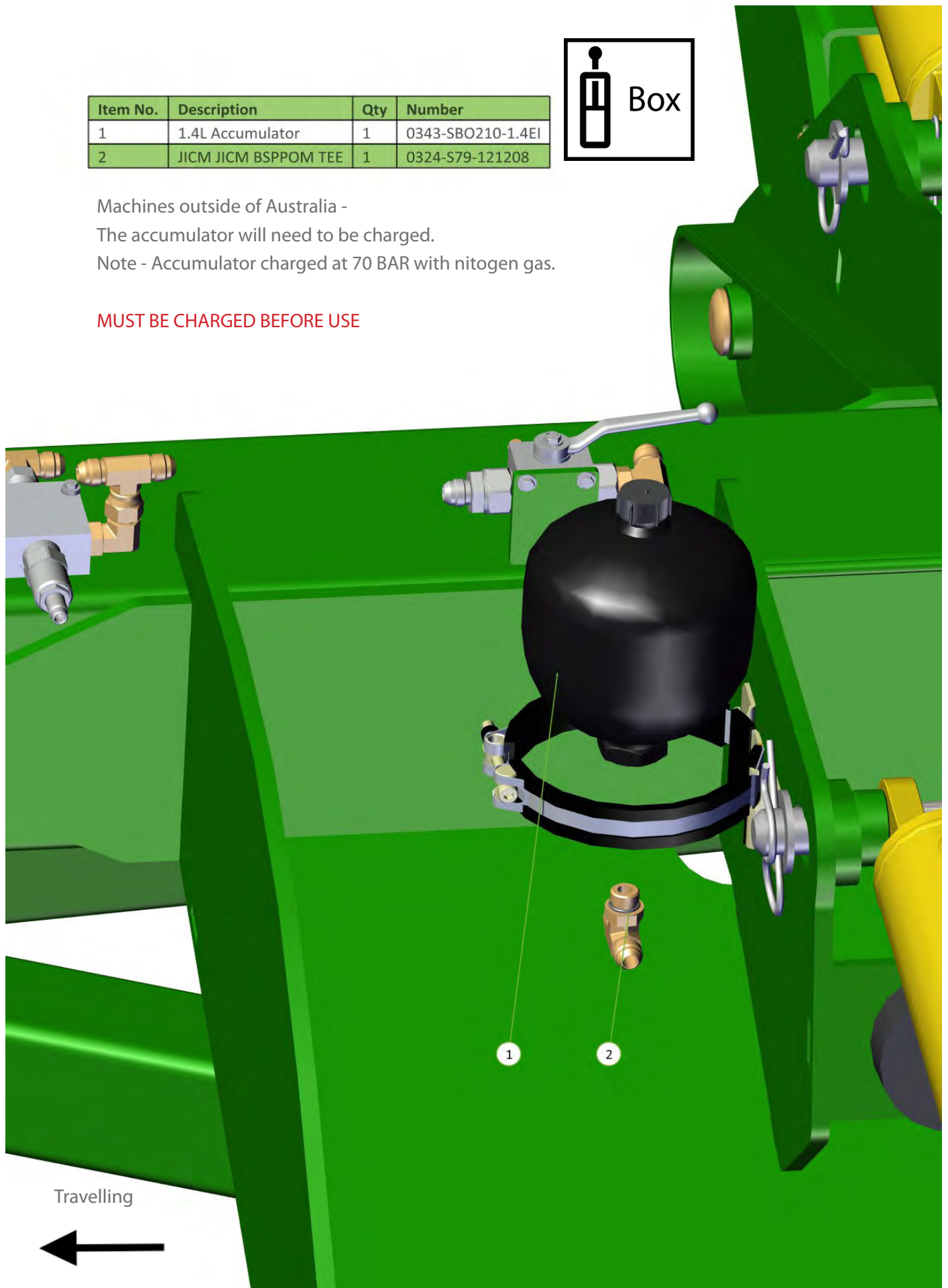


Machines outside of Australia -

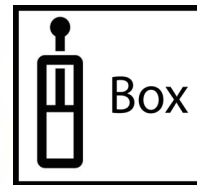
The accumulator will need to be charged.

Note - Accumulator charged at 70 BAR with nitrogen gas.

**MUST BE CHARGED BEFORE USE**

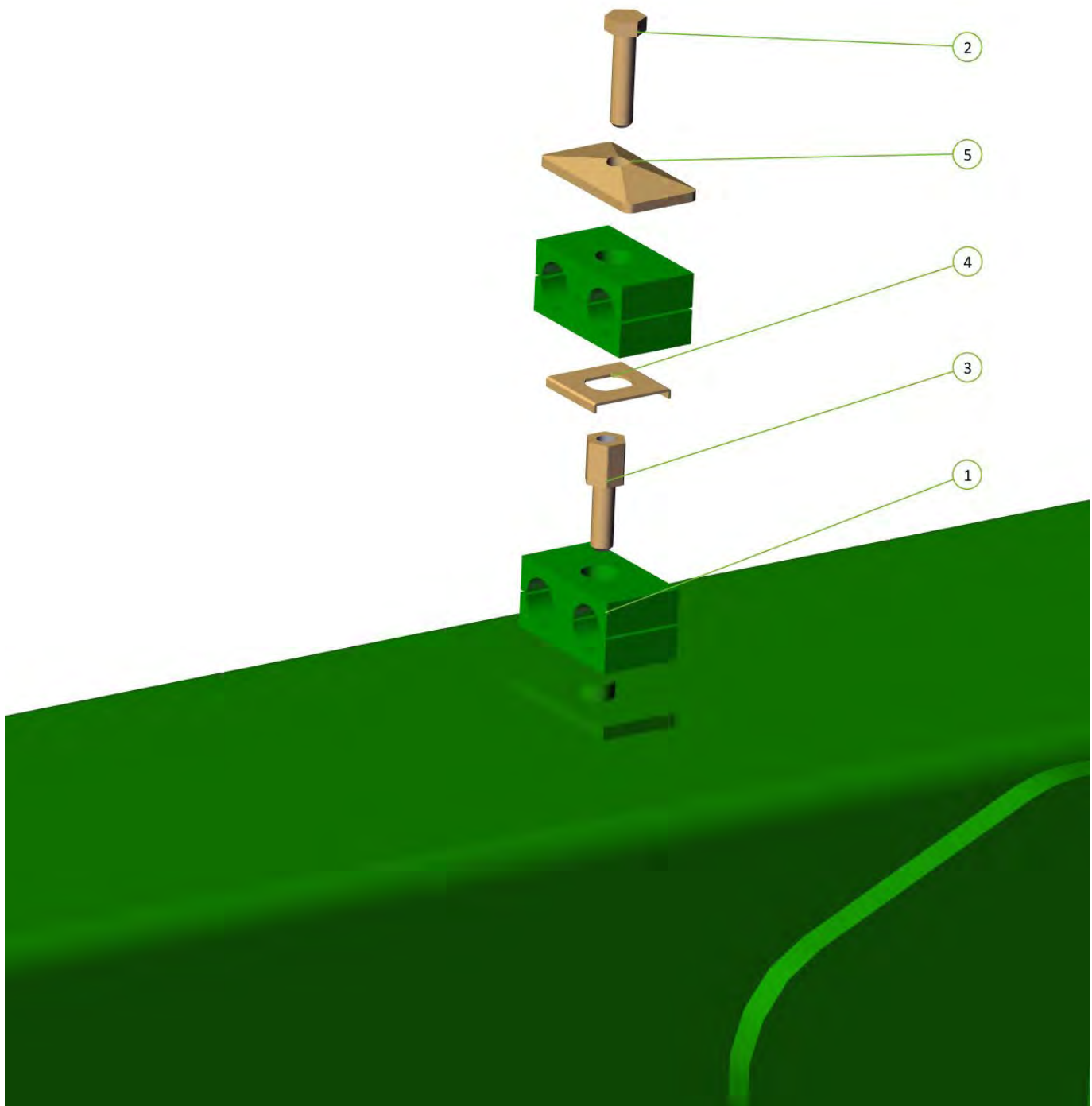


Item No.	Description	Qty	Number
1	RCD Double Clamp Jaws 17mm	2	0325-RCD-17J
2	RCD Double Clamp Bolt No 2	1	0325-RCD-2BH
3	RCD Double Clamp Stacking Bolt No 2	1	0325-RCD-2BS
4	RCD Double Clamp Staking Plate No 2	1	0325-RCD-2PS
5	RCD Double Clamp Top Plate No 2	1	0325-RCD-2PT

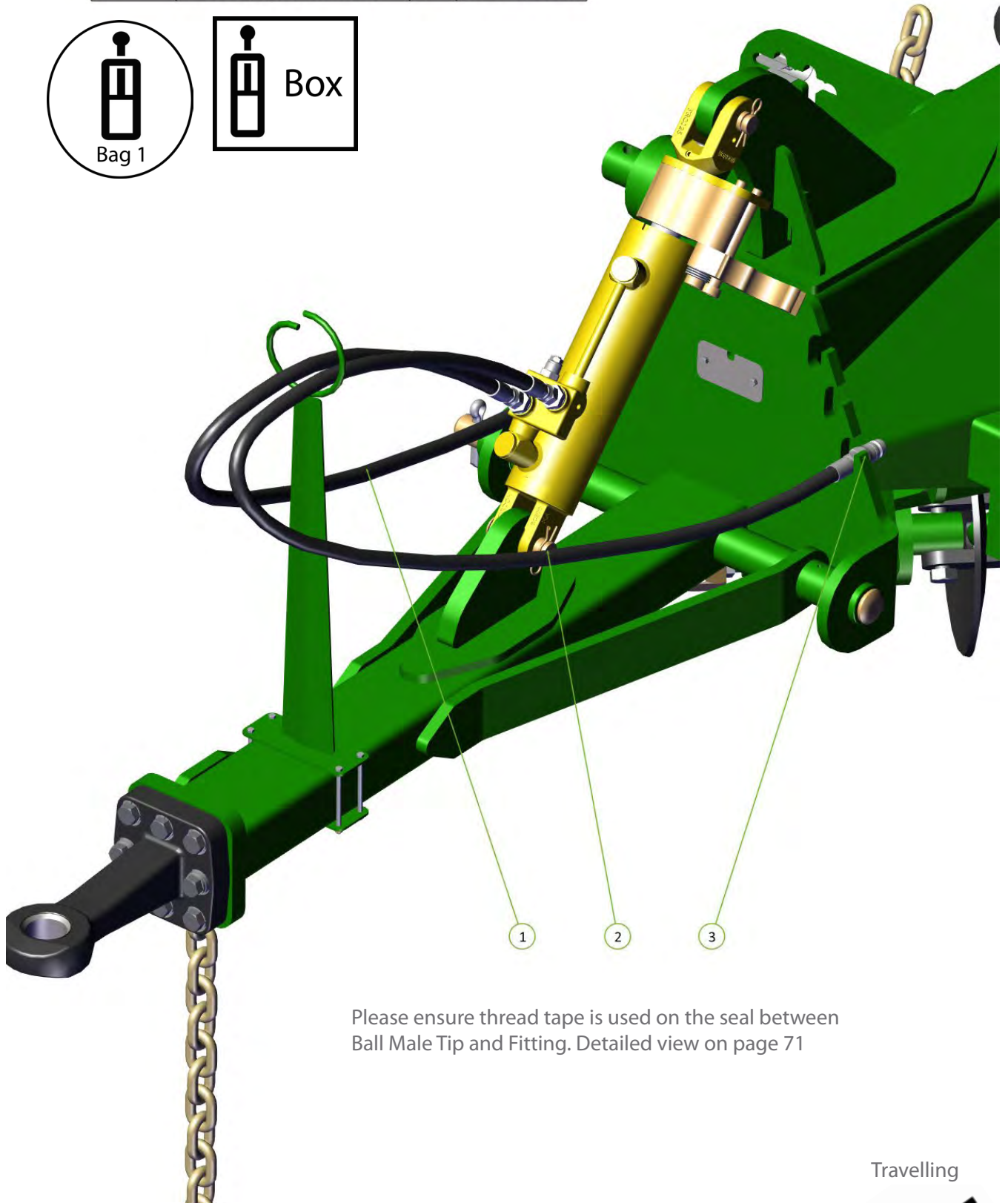
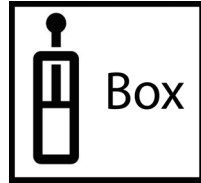


Please Note -

Bottom clamp bolt needs to be tight ened to clamp the hose before the top hose clamps can be added.



Item No.	Description	Qty	Number
1	Tractor To Front Lift Cylinder	1	H6-01
2	Tractor To Front Lift Cylinder	1	H6-01
3	BSPPF QRC/BALL MALE TIP	2	0325-R91-08M



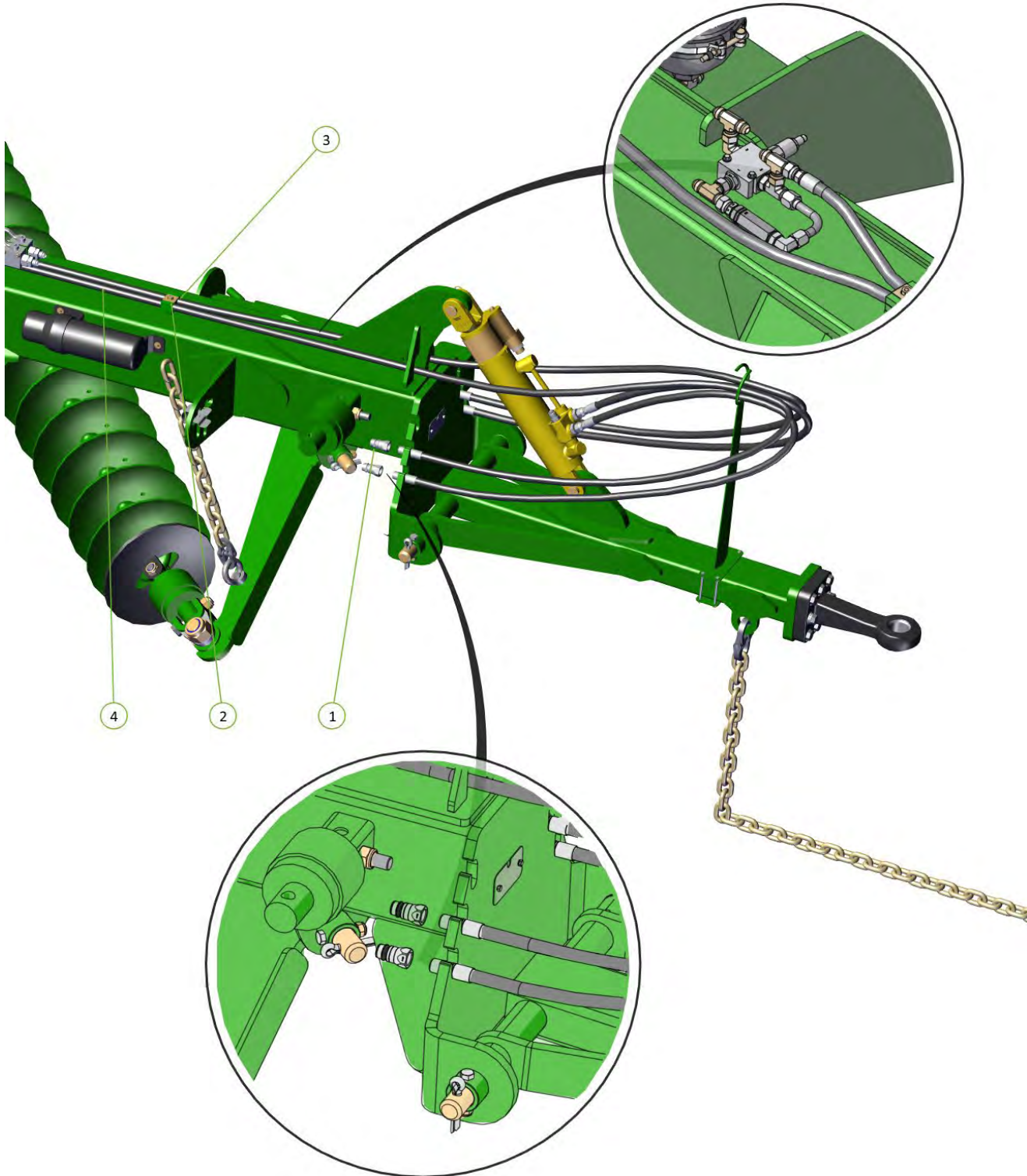
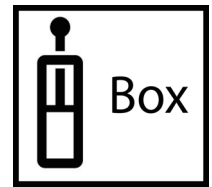
Please ensure thread tape is used on the seal between Ball Male Tip and Fitting. Detailed view on page 71

Travelling





Item No.	Description	Qty	Number
1	BSPPF QRC/BALL MALE TIP	2	0325-R91-08M
2	Stack Assembly	5	Stack Assembly
3	Tractor to Unfold Main Pressure Relief	1	H6-02
4	Tractor to wheel retract	1	H6-11



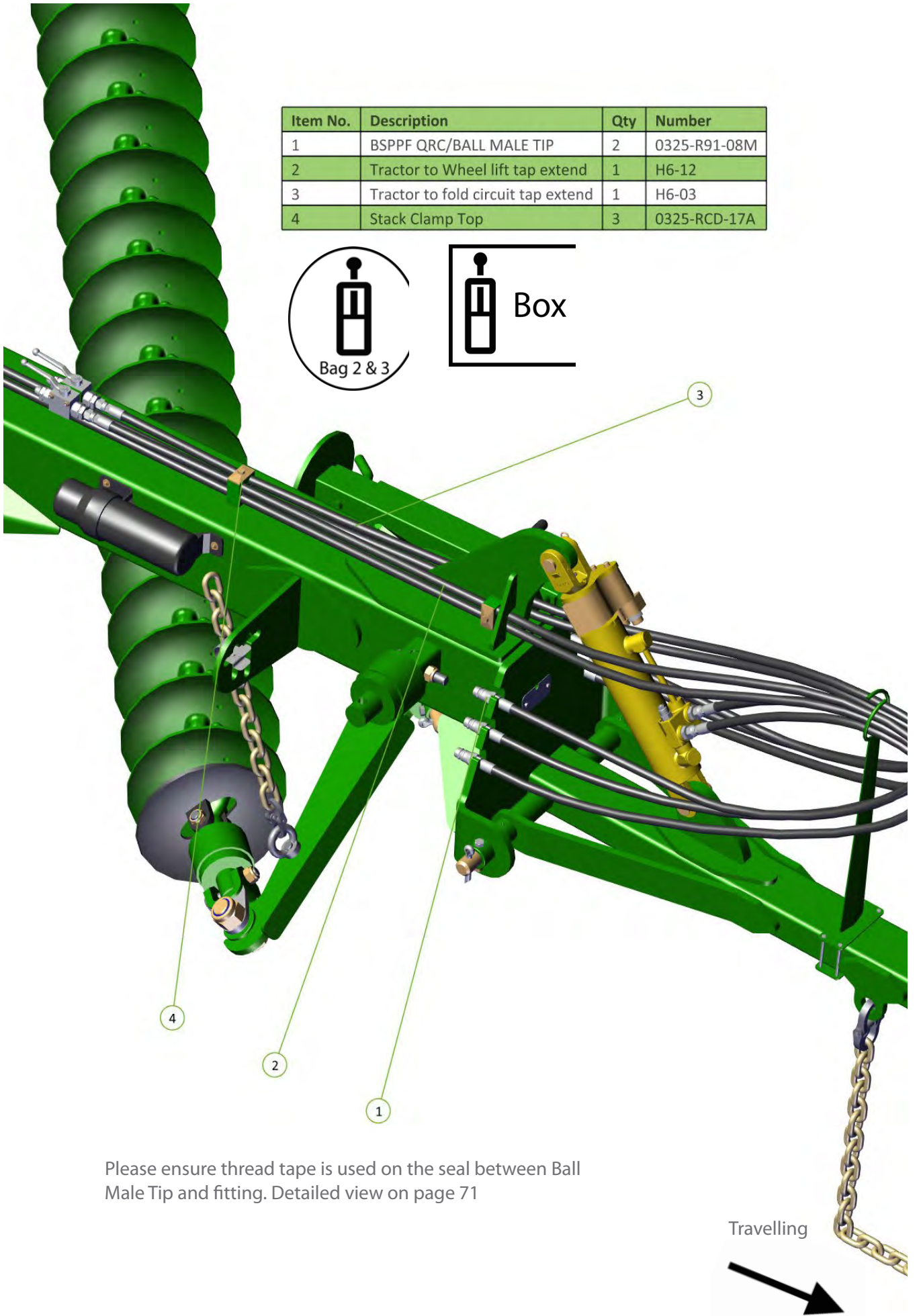
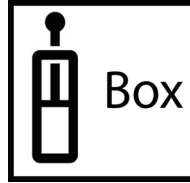
Travelling



Please ensure thread tape is used on the seal between Ball Male Tip and Fitting.  
Please find detailed view pictured



Item No.	Description	Qty	Number
1	BSPPF QRC/BALL MALE TIP	2	0325-R91-08M
2	Tractor to Wheel lift tap extend	1	H6-12
3	Tractor to fold circuit tap extend	1	H6-03
4	Stack Clamp Top	3	0325-RCD-17A

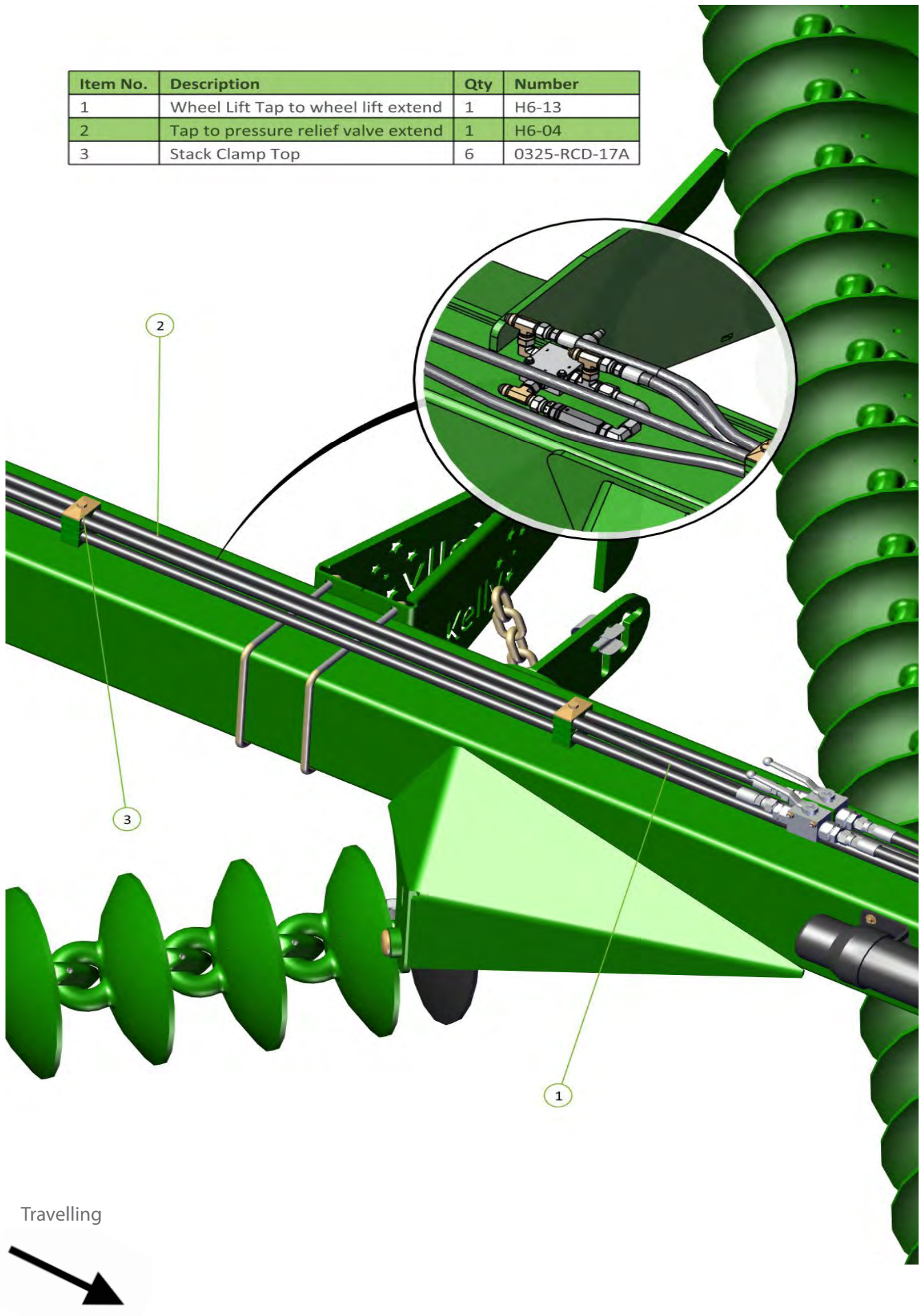


Please ensure thread tape is used on the seal between Ball Male Tip and fitting. Detailed view on page 71

Travelling

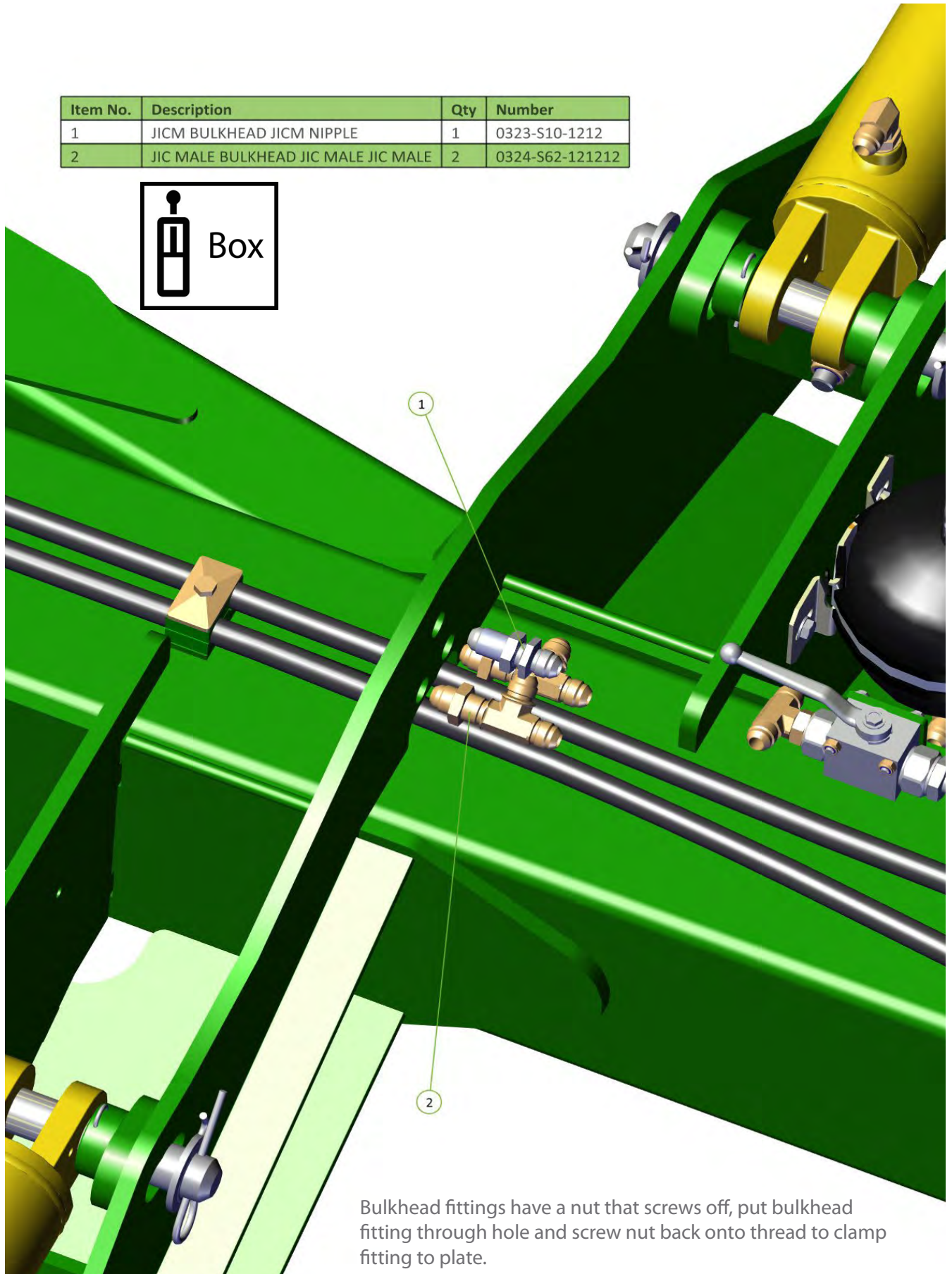
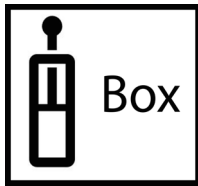


Item No.	Description	Qty	Number
1	Wheel Lift Tap to wheel lift extend	1	H6-13
2	Tap to pressure relief valve extend	1	H6-04
3	Stack Clamp Top	6	0325-RCD-17A





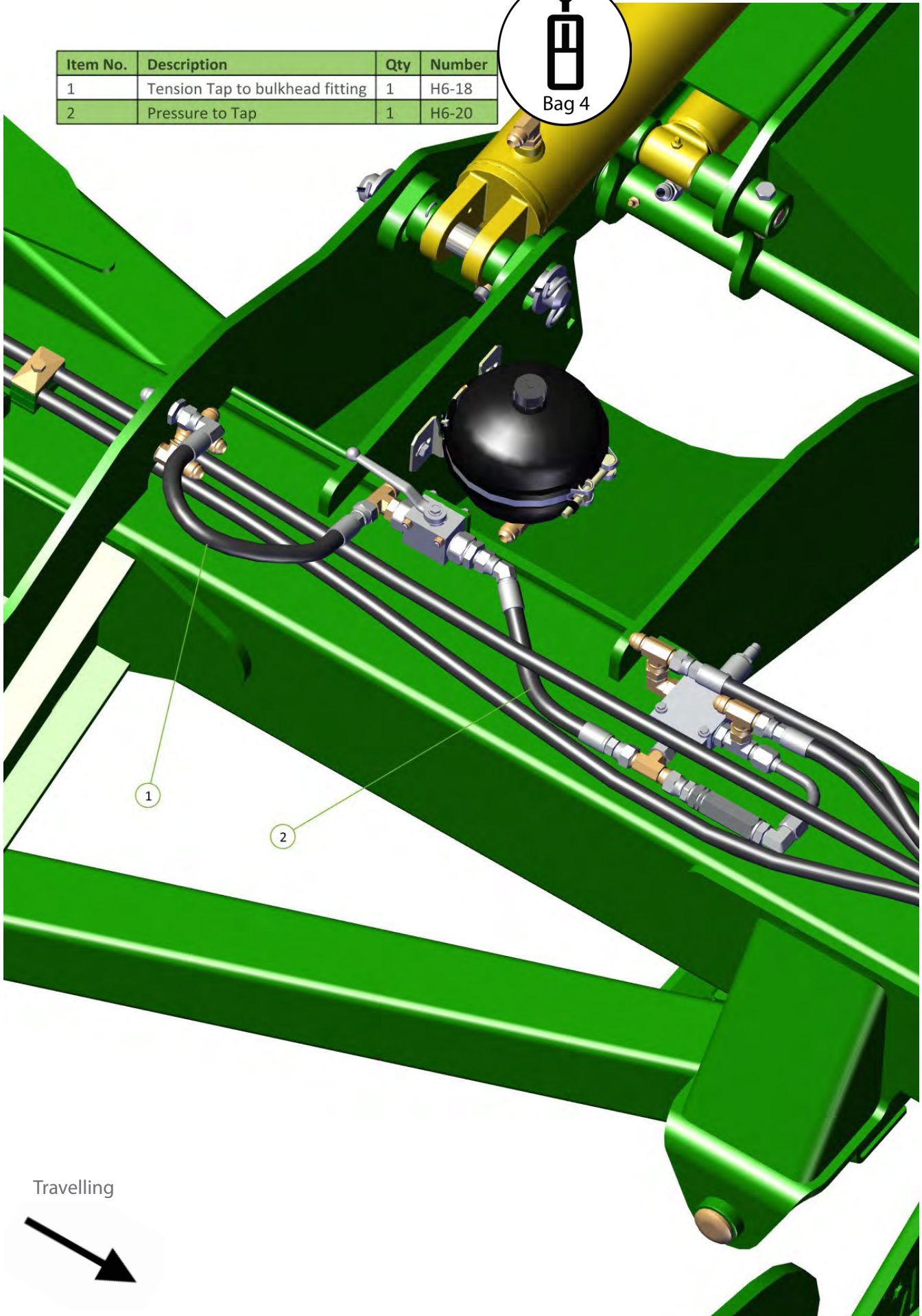
Item No.	Description	Qty	Number
1	JICM BULKHEAD JICM NIPPLE	1	0323-S10-1212
2	JIC MALE BULKHEAD JIC MALE JIC MALE	2	0324-S62-121212



Bulkhead fittings have a nut that screws off, put bulkhead fitting through hole and screw nut back onto thread to clamp fitting to plate.



Item No.	Description	Qty	Number
1	Tension Tap to bulkhead fitting	1	H6-18
2	Pressure to Tap	1	H6-20

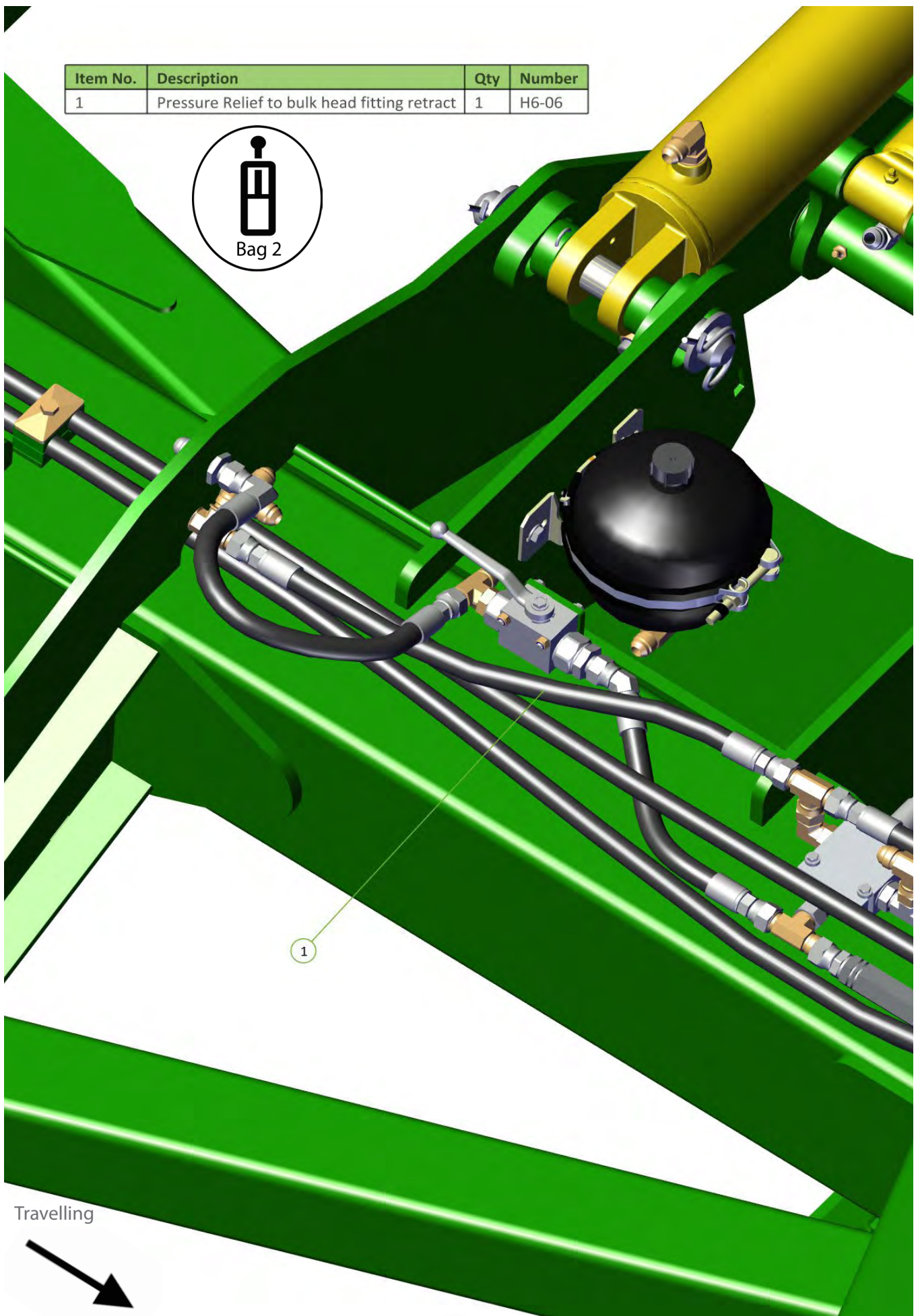


Travelling



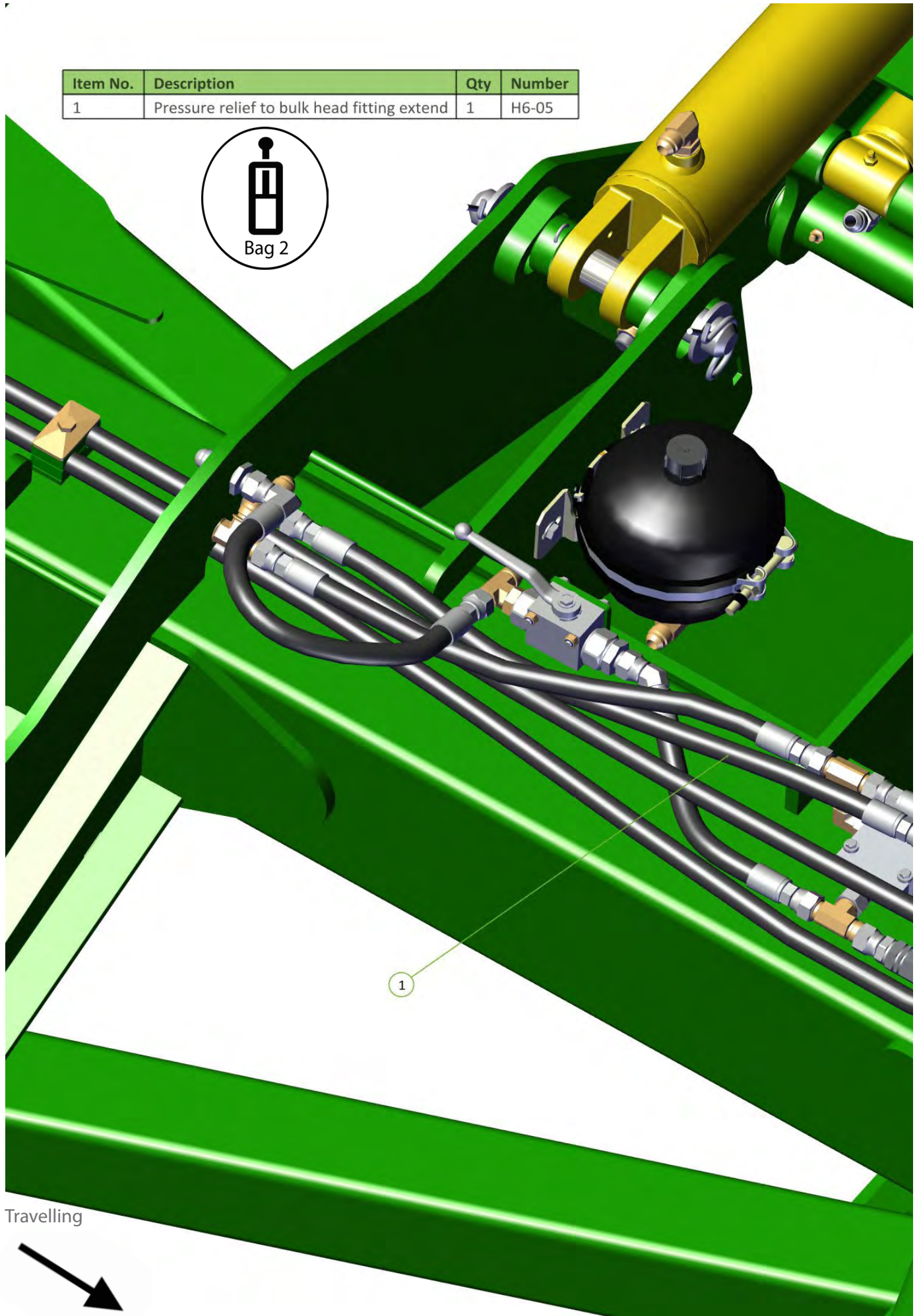


Item No.	Description	Qty	Number
1	Pressure Relief to bulk head fitting retract	1	H6-06





Item No.	Description	Qty	Number
1	Pressure relief to bulk head fitting extend	1	H6-05



1

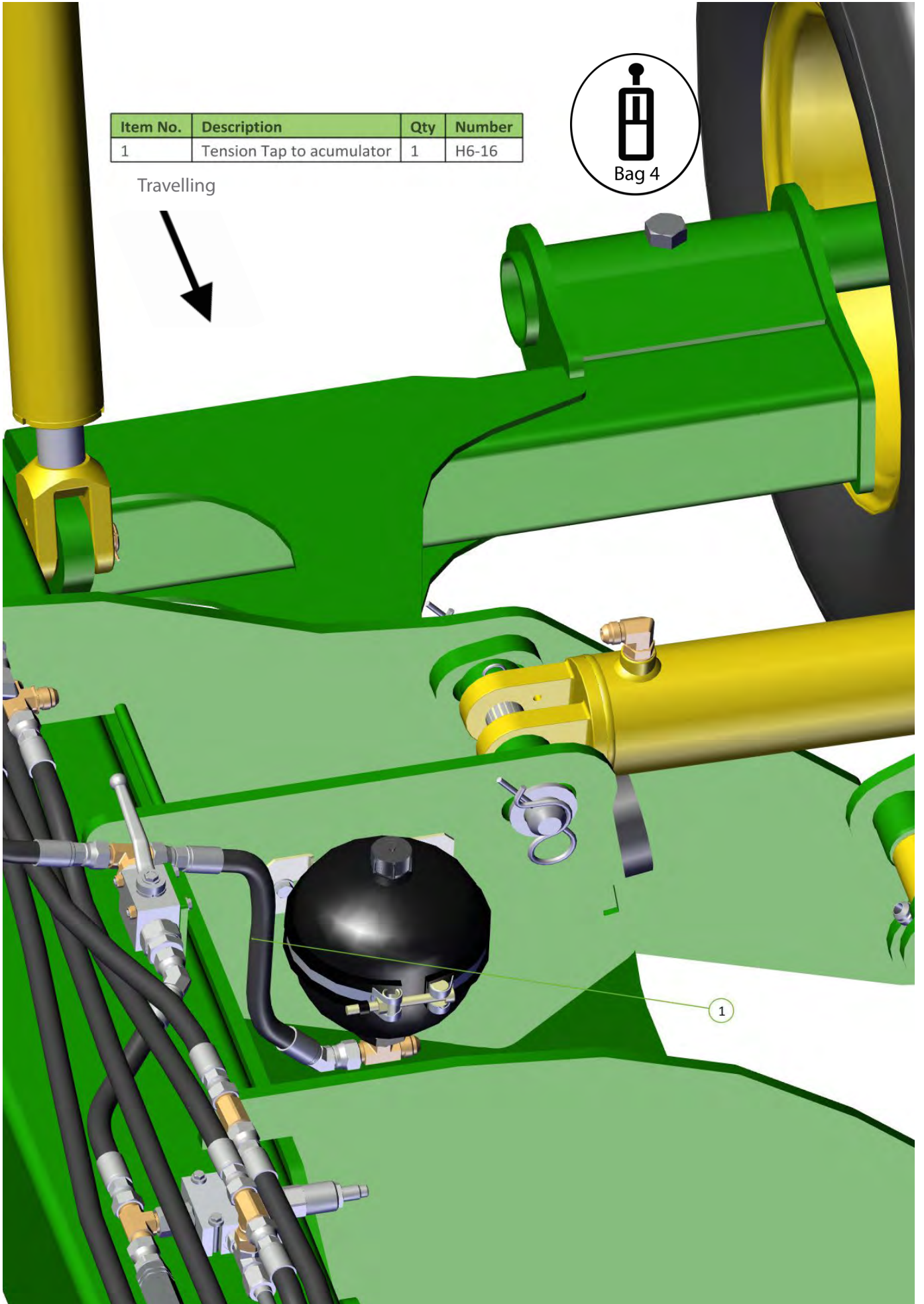
Travelling



Item No.	Description	Qty	Number
1	Tension Tap to acumulator	1	H6-16



Travelling

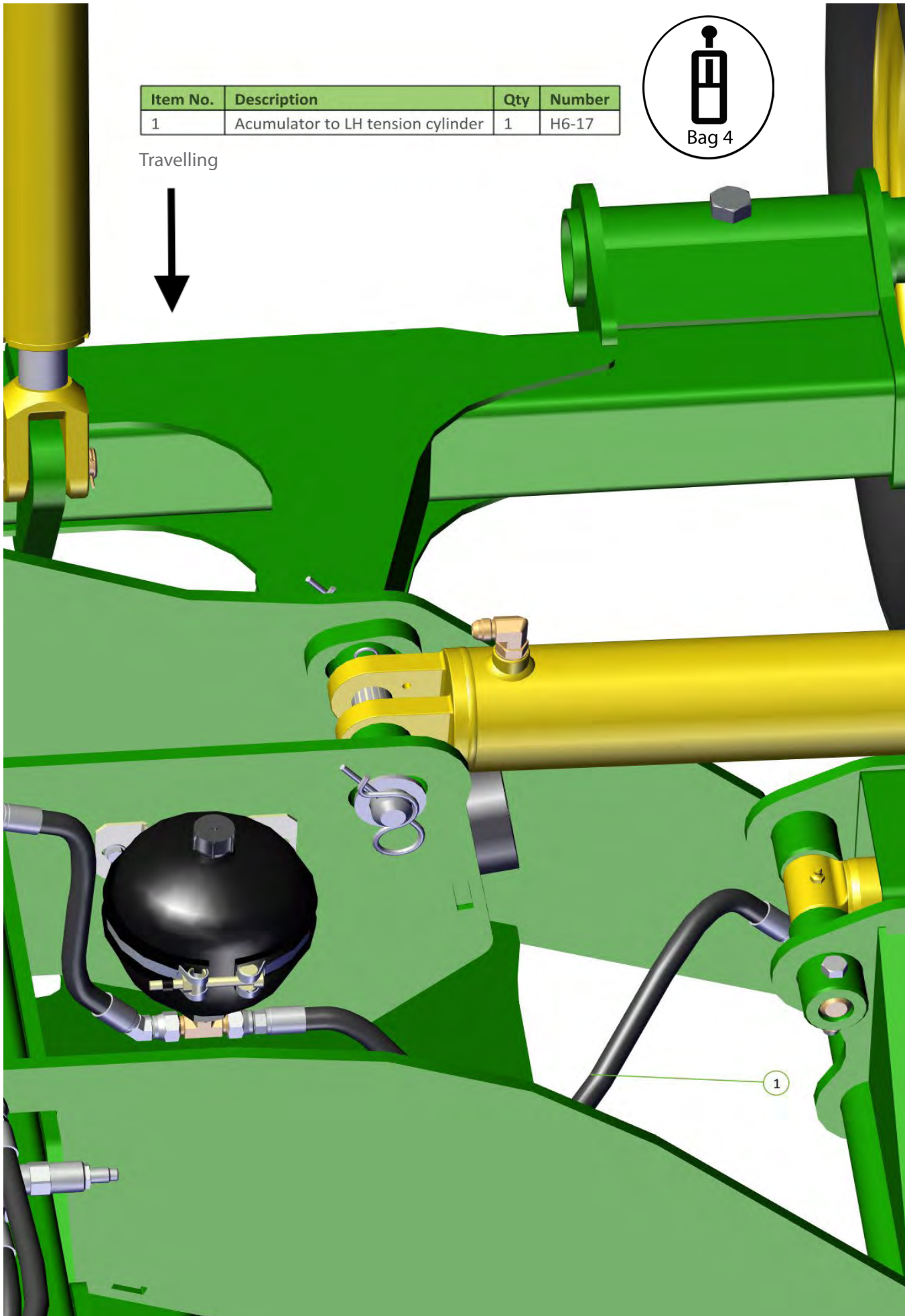




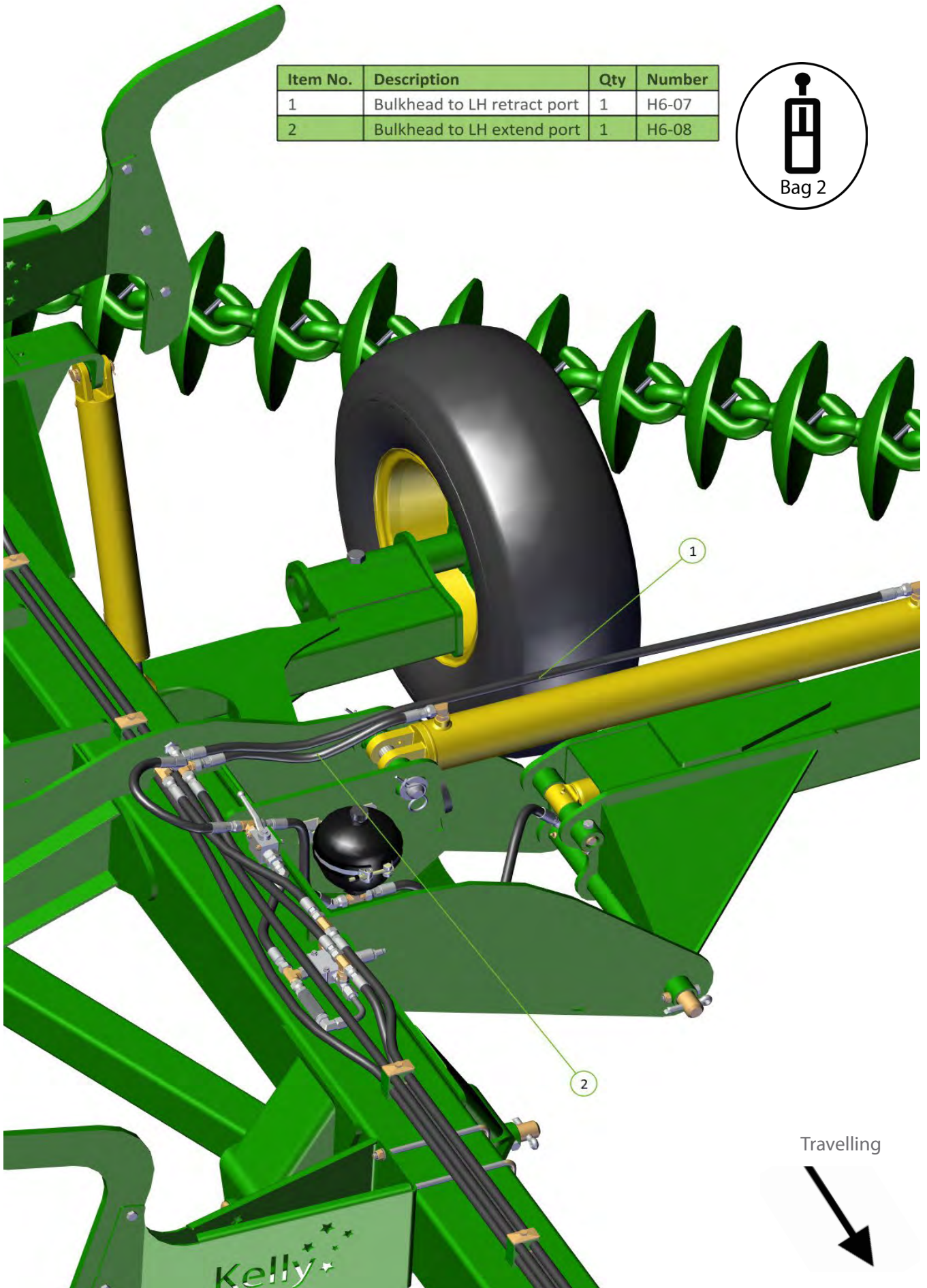
Item No.	Description	Qty	Number
1	Acumulator to LH tension cylinder	1	H6-17



Travelling

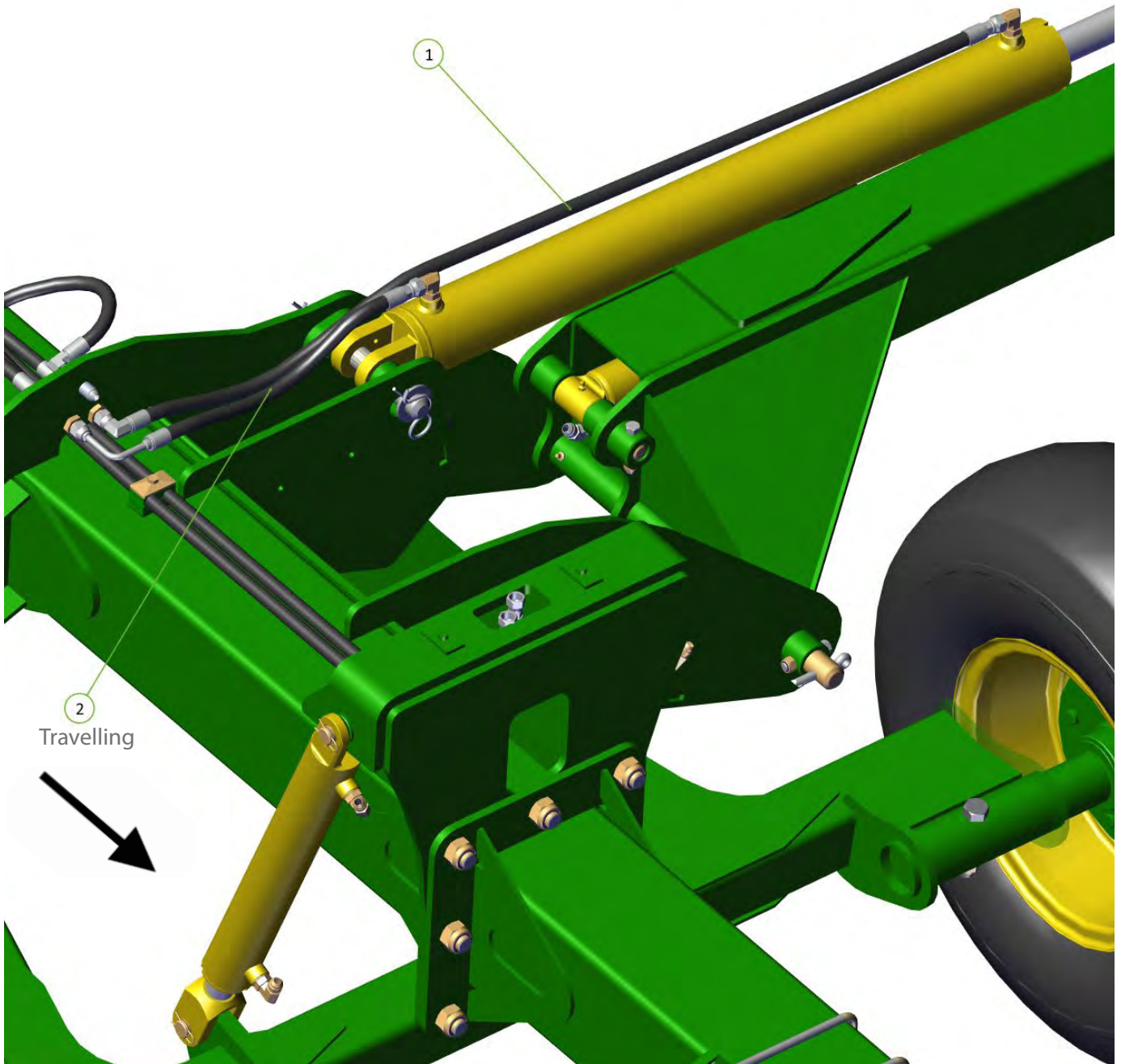
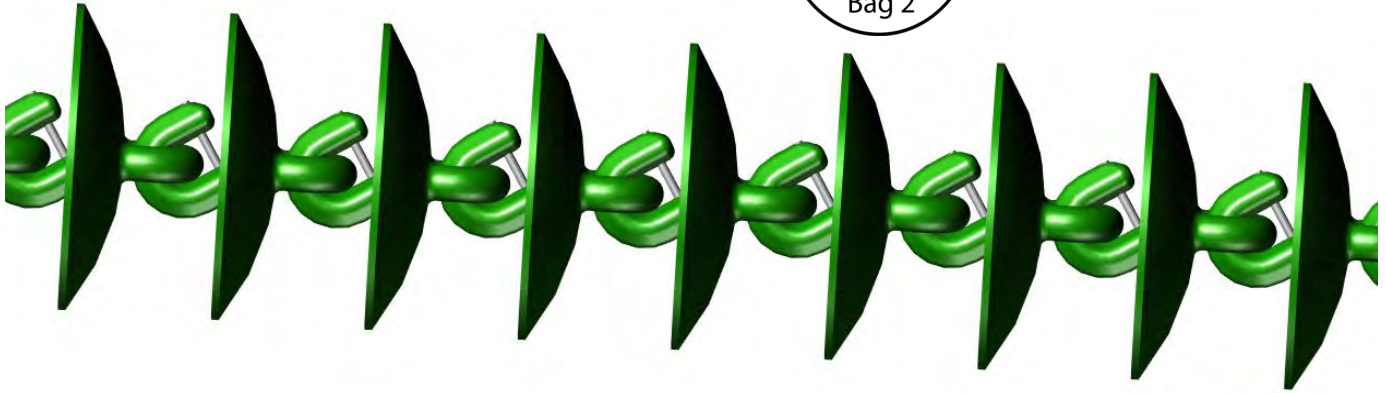


Item No.	Description	Qty	Number
1	Bulkhead to LH retract port	1	H6-07
2	Bulkhead to LH extend port	1	H6-08





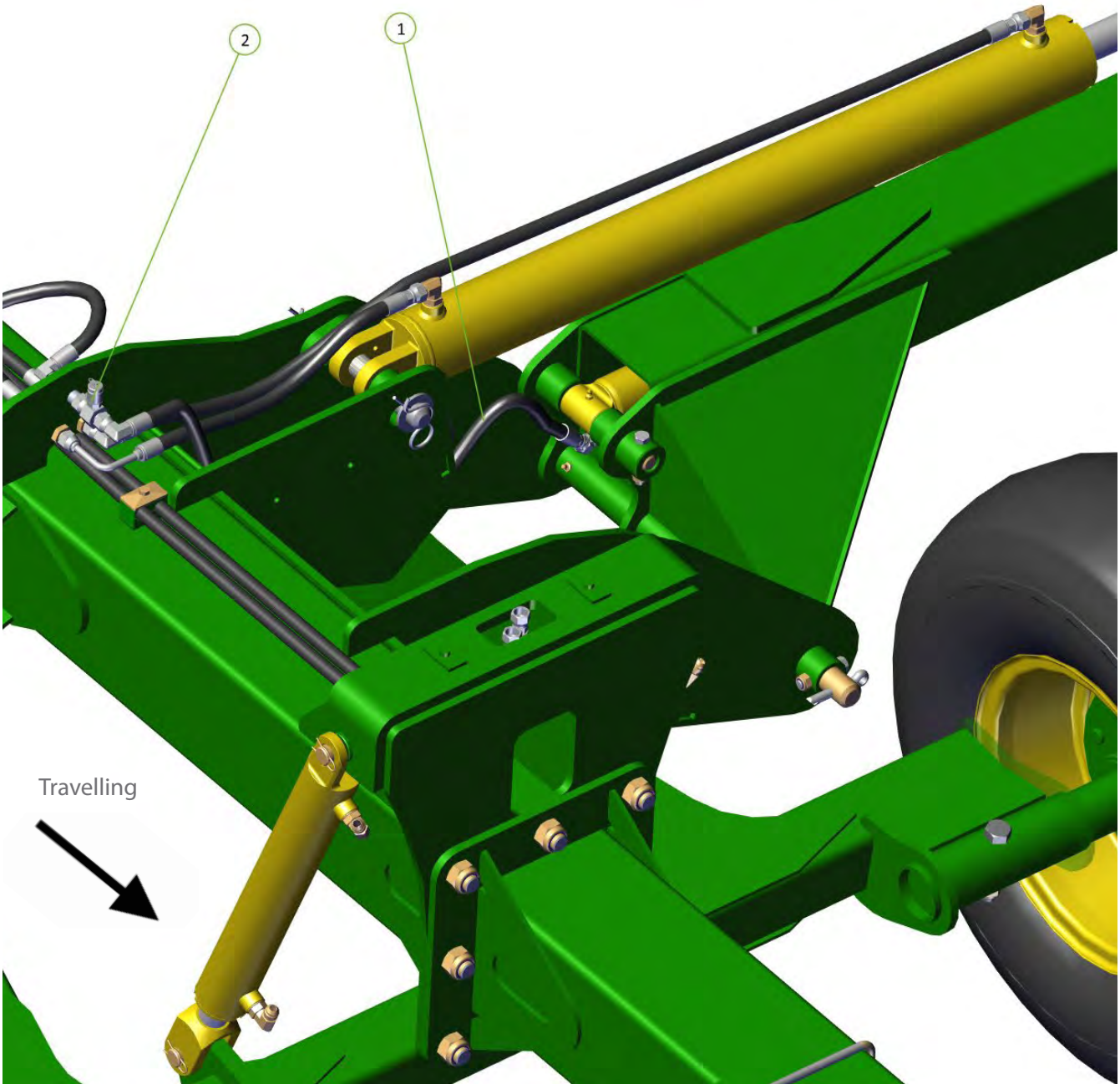
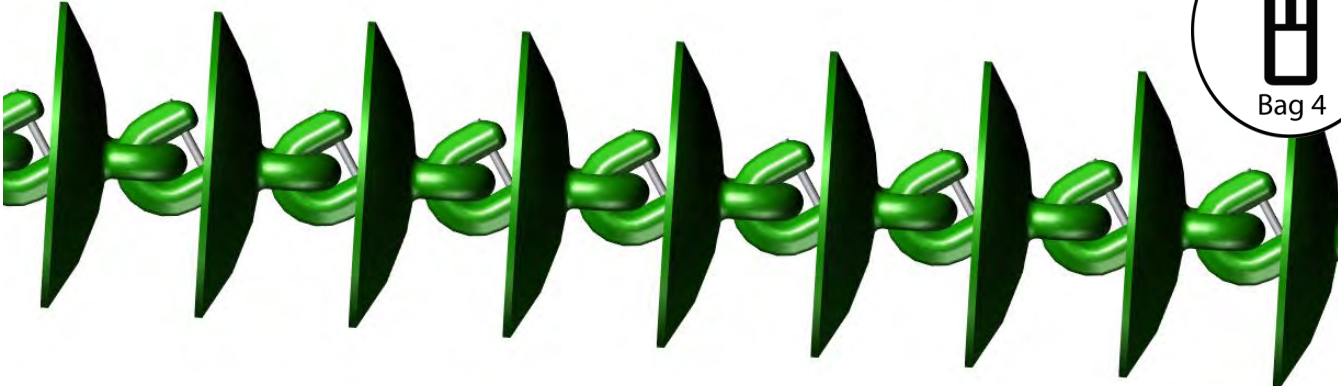
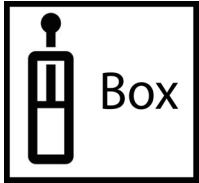
Item No.	Description	Qty	Number
1	Bulkhead to RH retract port	1	H6-09
2	Bulkhead tp RH extend port	1	H6-10

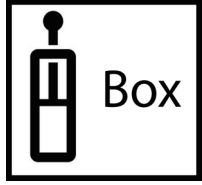






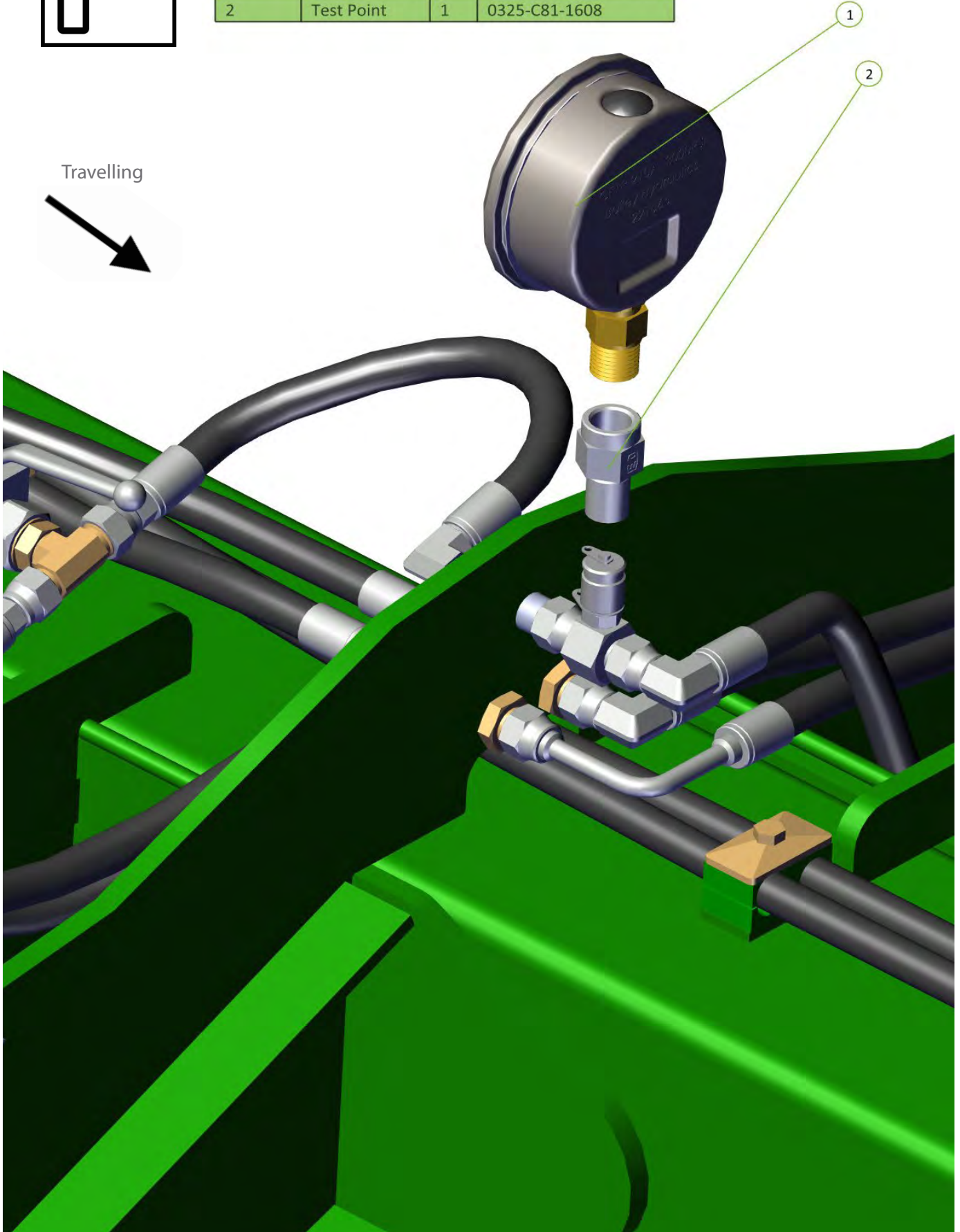
Item No.	Description	Qty	Number
1	Bulkhead to RH Tension Cylinder	1	H6-19
2	JIC Male, JIC Female Swivel, M16 x 2.0 Test Point	1	0325-S159-121216



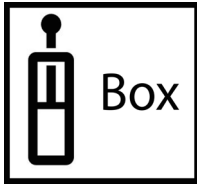


Item No.	Description	Qty	Number
1	100mm Gauge	1	0325-GAUGE100-250-G
2	Test Point	1	0325-C81-1608

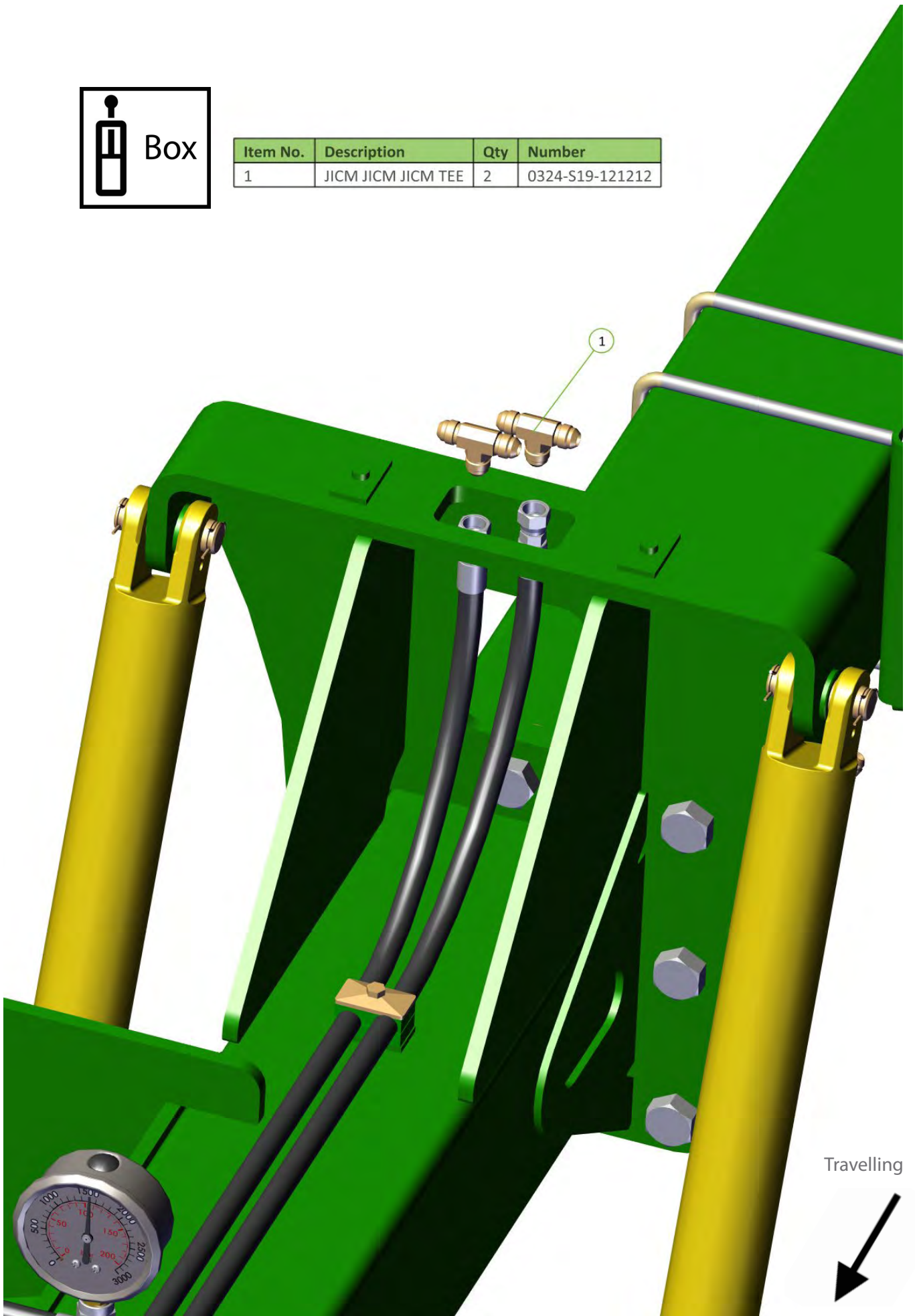
Travelling





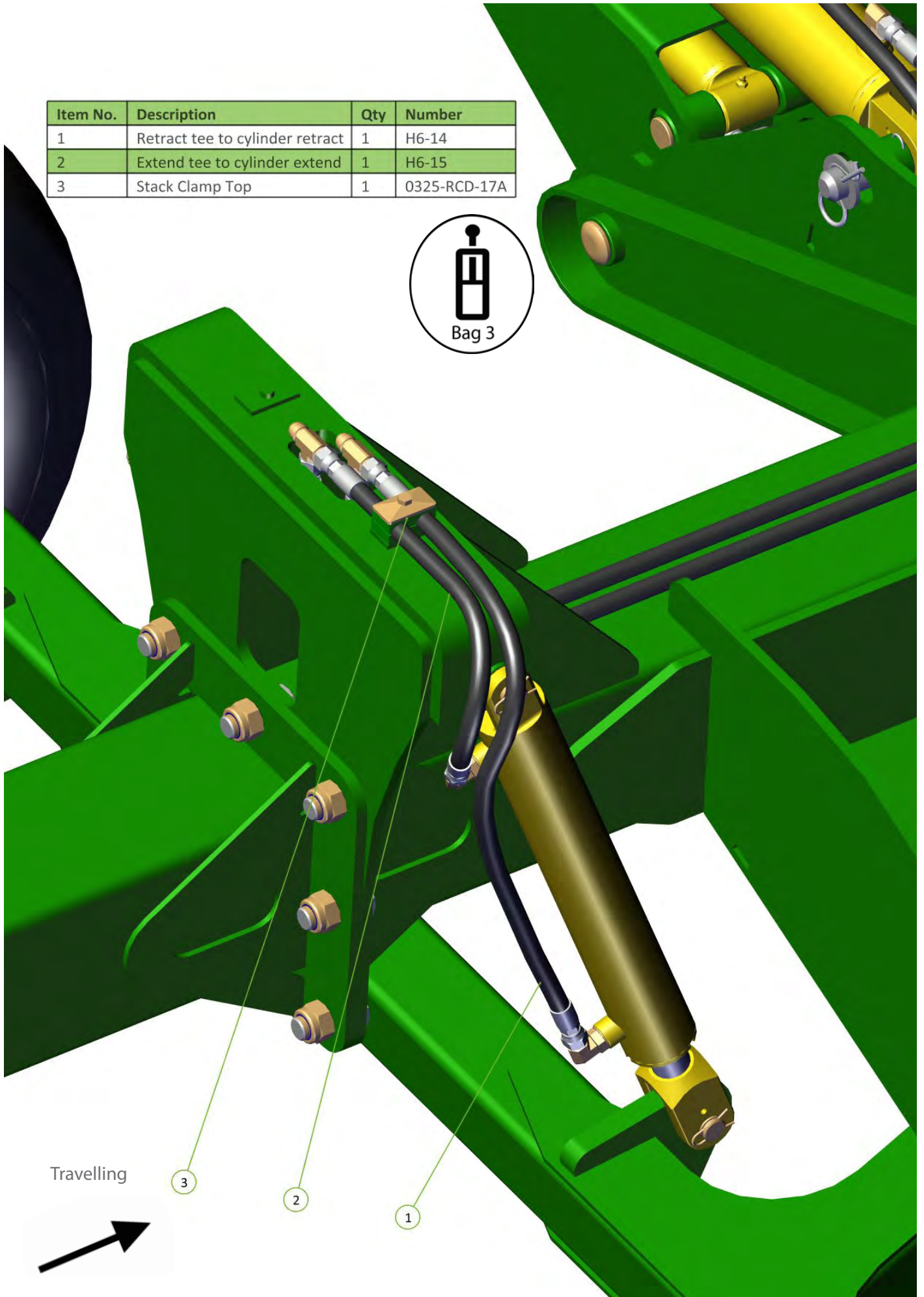


Item No.	Description	Qty	Number
1	JICM JICM JICM TEE	2	0324-S19-121212





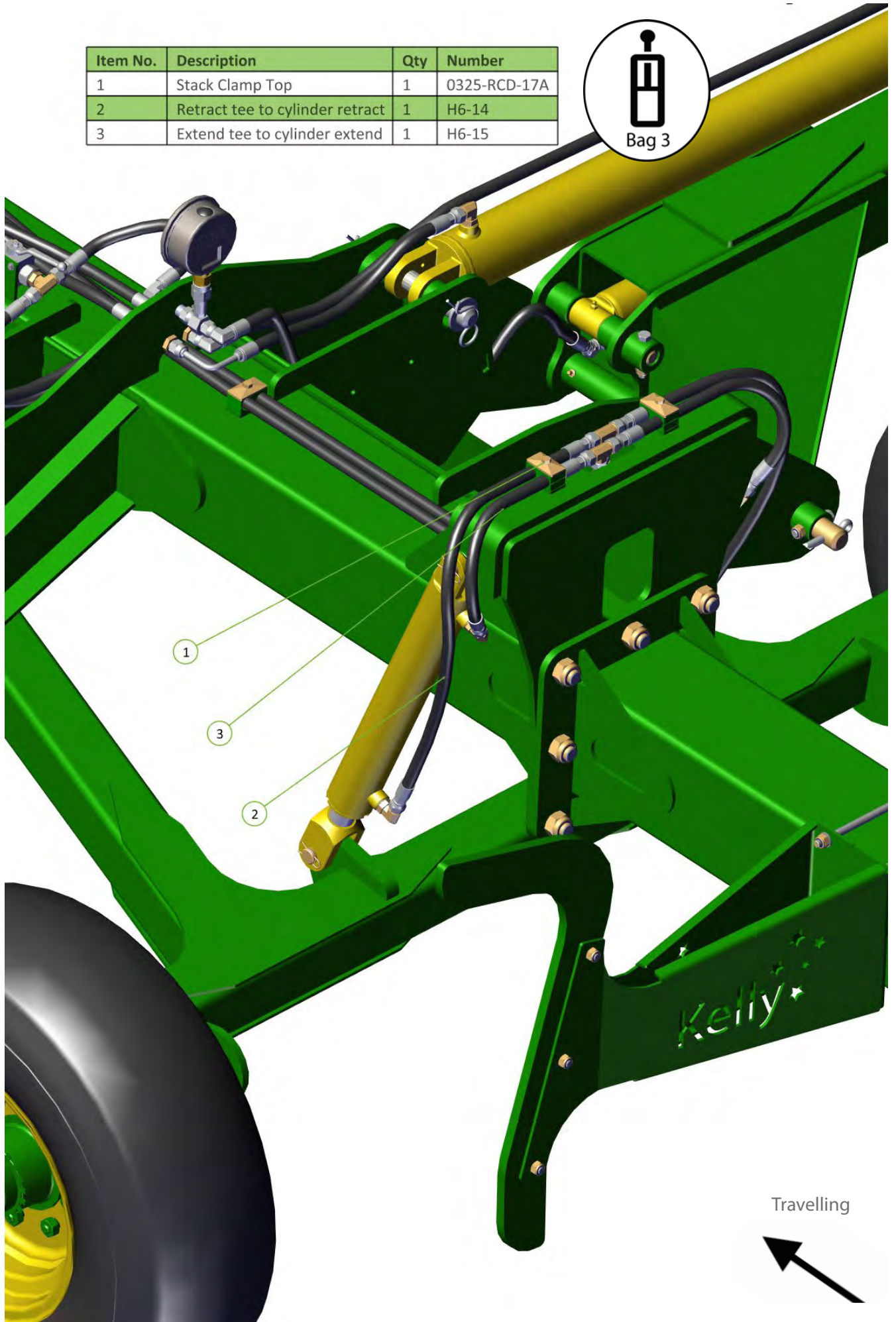
Item No.	Description	Qty	Number
1	Retract tee to cylinder retract	1	H6-14
2	Extend tee to cylinder extend	1	H6-15
3	Stack Clamp Top	1	0325-RCD-17A



Travelling



Item No.	Description	Qty	Number
1	Stack Clamp Top	1	0325-RCD-17A
2	Retract tee to cylinder retract	1	H6-14
3	Extend tee to cylinder extend	1	H6-15



## Chain Harrow specifications

<b>Model</b>	<b>20'/6m</b>
<b>Working width</b>	21.5'/ 6.56m
<b>Transport width</b>	13.2'/4m
<b>Transport height</b>	8.1'/2.47m
<b>Transport length</b>	34.3'/10.44m

## Bolt Torque Settings

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

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

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



### Disc Chain lengths

Model		Length	CL2	CL1	W36	R300	SD49	Prickle chain
			CL2 disc chain also requires CL1 disc chain					
<b>6m</b>	Front right	14.9'/4.53m	CL2 - 20 CL1 - 2	27	27	36	36	50
	Front left	15'/4.56m	CL2 - 20 CL1 - 2	27	28	36	36	51
	Rear right	15.1'/4.61m	CL2 - 20 CL1 - 2	27	28	37	37	51
	Rear left	15.2'/4.64m	CL2 - 20 CL1 - 2	28	28	37	37	51

