

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

PO Box 100

Booleroo Centre SA 5482

Phone: + 61 8 8667 2253 **Fax:** + 61 8 8667 2250

Email: sales@kellyengineering.com.au **Spare Parts:** parts@kellyengineering.com.au **Website:** www.kellyengineering.com.au

United States Kelly Engineering

Website: www.kellyharrows.com

Spare Parts Hood & Company Inc Springfield MO

Phone: 417 865 2100 **Fax:** 417 865 2105

Email: hoodco@hoodco.com

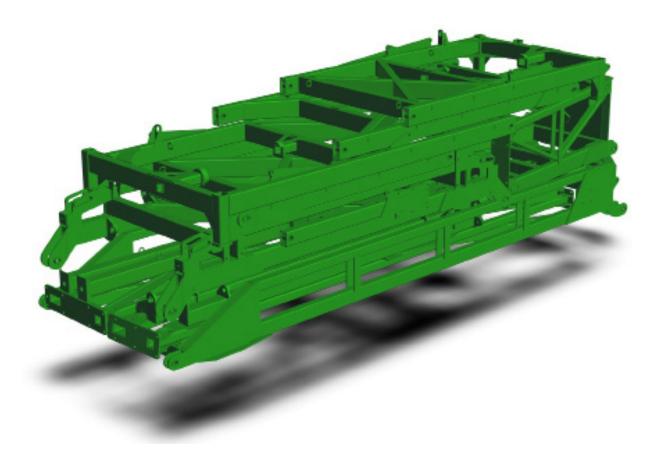
Contents

Section 1: Unpacking	Page no 4
Section 2: Parts and Assembly	6
Section 3: Hydraulics Setup	89
Section 4: Diagrams & Charts	131
Wiring Diagram	132
Mounting Swivels	133
Cast Chain Link Retaining	134
Specifications	135
Disc Chain Lengths	136
Section 5: Chain Assembly	137
Section 6: Operation & Technical Bulletins	146
Basic Operation and Chain Tension	147
Module and Chain Tension	148
Light Brackets	149
CL2 Chain Configuration	150
Hydraulic Jack	151 - 152
CL2 Disc Change procedure	153 - 155
Chain Carrier Locations	156
Pre-Delivery Check List	157



This symbol indicates which bag the relevant fastners are in

Section 1 Unpacking





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.



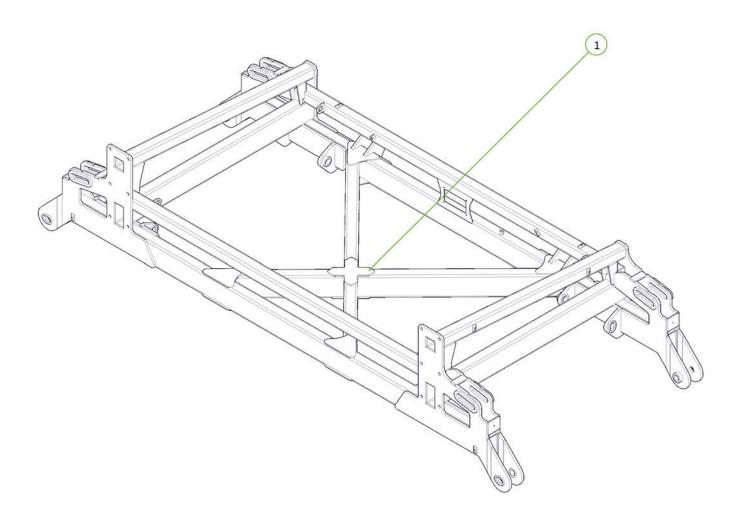
CAUTION

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
- 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
- Once all parts have been identified machines are ready for assembly
- · Read assembly instructions before proceeding.

Section 2 Parts & Assembly

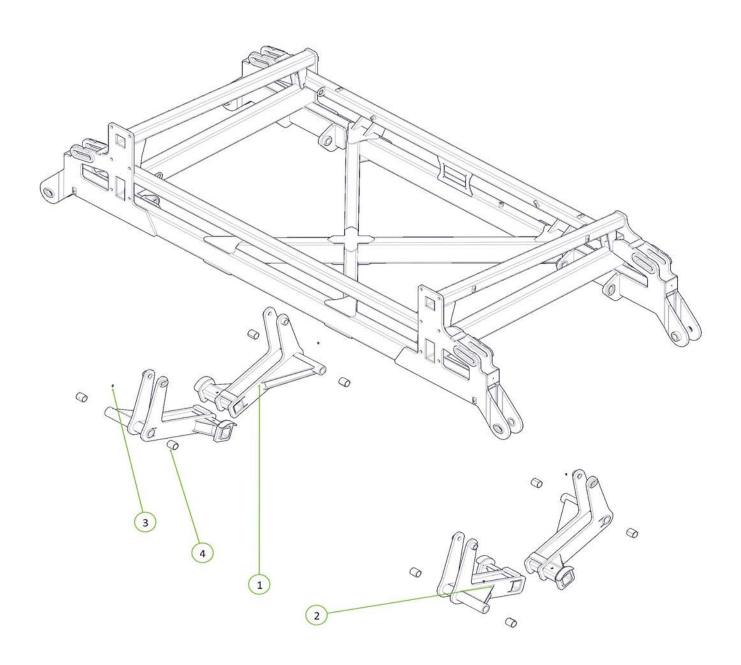
Item No.	Description	Qty	Number
1	62HDX Centre Frame	1	1265-01



Item No.	Description	Qty	Number
1	RH Walking Axle Arm	2	1210-50
2	LH Walking Axle Arm	2	1210-51
3	Grease Nipple 1/4" UNF	4	0181-GN1-4
4	50 ID x 60mm DX Bush	8	0113-MB 5060DX

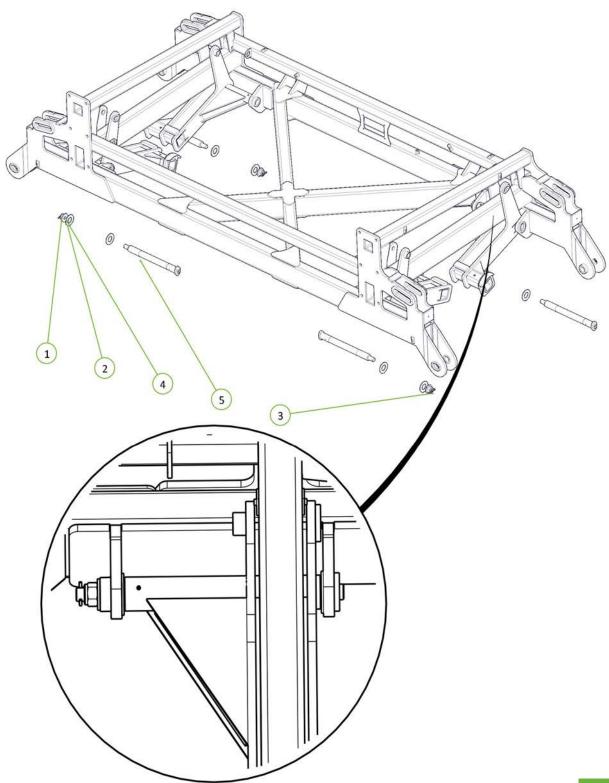
Please note - DX bushes are factory inserted





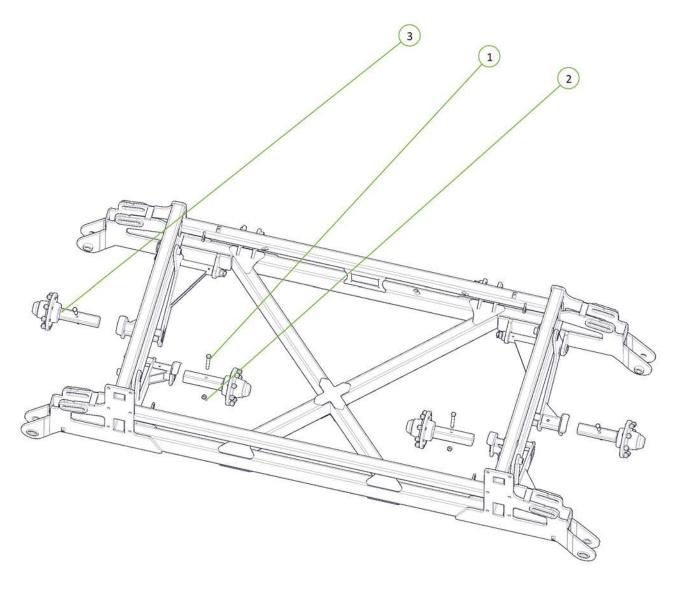
Item No.	Description	Qty	Number
1	Nyloc Nut M30	4	0221-NYL30
2	Washer High Tensile 2"	8	0232-HT2
3	Cotter Pin M6 x 50mm	4	0261-PINC650
4	50mm Pivot Pin Retaining Washer	4	1200-60
5	Oval Head 50mm Long Pivot Pin	4	1202-08





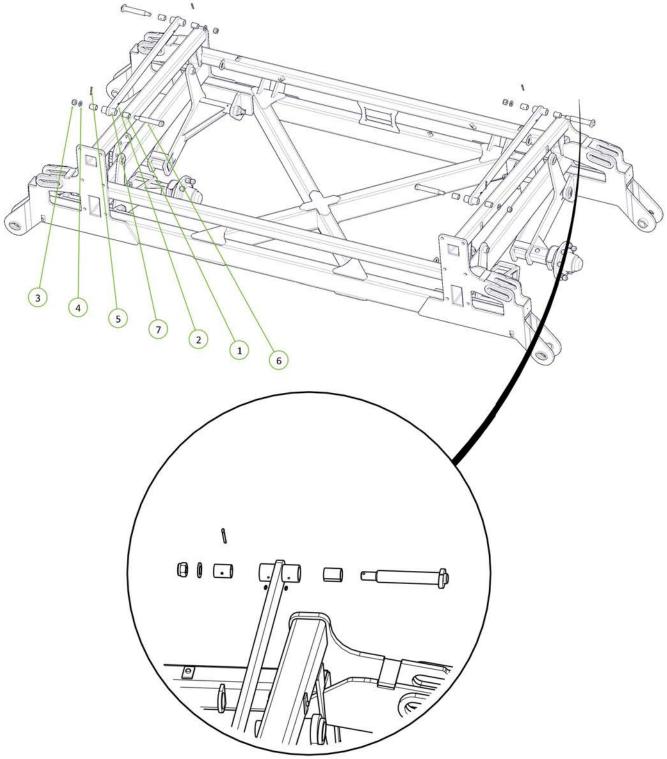
Item No.	Description	Qty	Number
1	M20 x 130 grade 8.8 ZP Bolt	4	0211-20130
2	Nyloc Nut M20	4	0221-NYL20
3	90 Series Stub Axle (Stub and Hub Complete)	4	0733-90



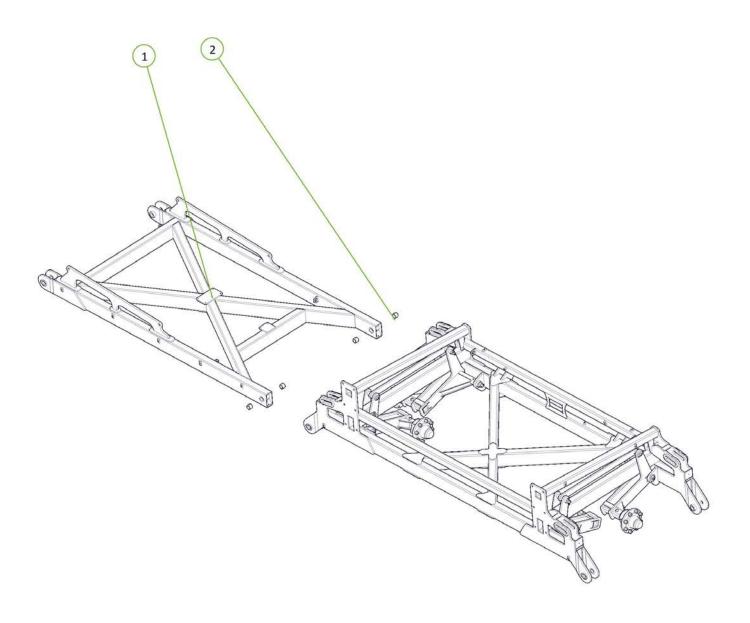


Item No.	Description	Qty	Number	
1	35 ID x 50mm DX Bush	8	0113-MB 3550DX	
2	Grease Nipple 1/4" UNF	8	0181-GN1-4	
3	Nyloc Nut M24	4	0221-NYL24	
4	Washer Flat M24	4	0231-F24	
5	Cotter Pin M6 x 50mm	4	0261-PINC650	
6	Oval Head 35mm Pivot Pin	4	1202-09	
7	Walking Axle Linkage	2	1210-52	



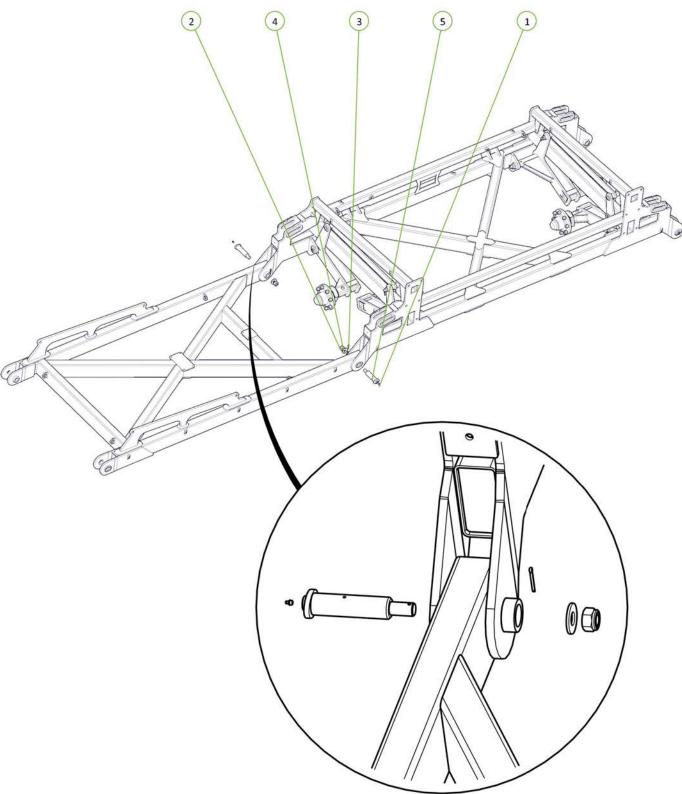


Item No.	Description	Qty	Number
1	62HDX RH Inner Wing Frame	1	1265-04
2	50 ID x 40mm DX Bush	4	0113-MB 5040DX



Item No.	Description	Qty	Number
1	Grease Nipple 1/8" BSP	2	0181-GN1-8
2	Nyloc Nut M30	2	0221-NYL30
3	Cotter Pin M6 x 50mm	2	0261-PINC650
4	50mm Pivot Pin Retaining Washer	2	1200-60
5	Oval Head 50mm Short Pivot Pin	2	1202-06





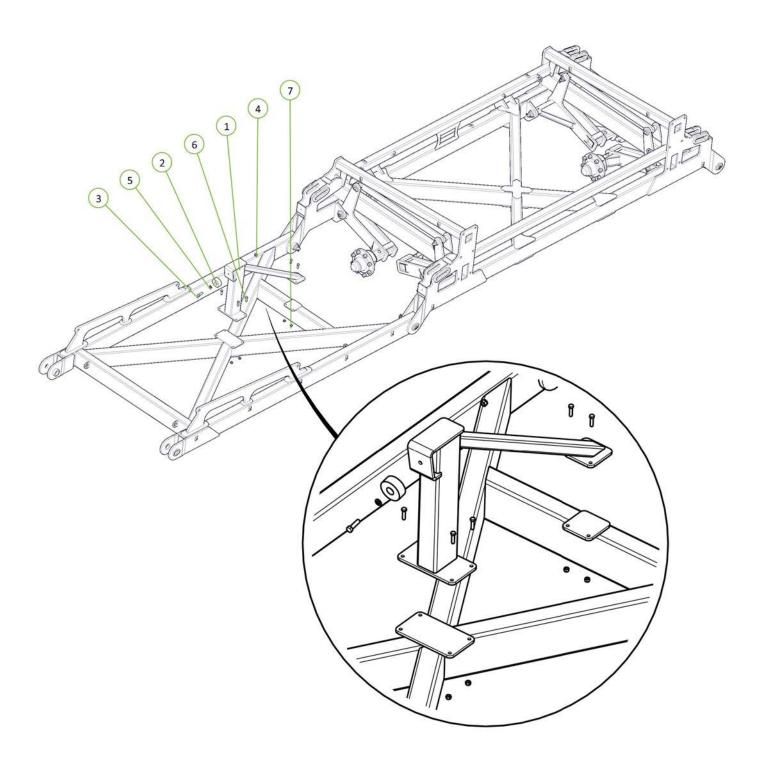
 Item No.
 Description
 Qty
 Number

 1
 62HDX Inner Wing Post
 1
 1265-04P

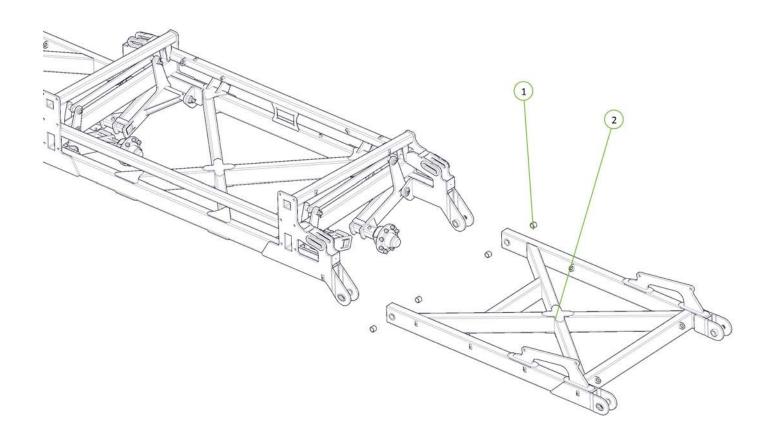
 2
 Wing Folding Buffer
 1
 1201-12

Wing Folding Buffer 1201-12 3 M16 x 55 grade 8.8 zp Bolt 0211-1655 4 Nyloc Nut M16 0221-NYL16 5 Washer Flat M16 1 0231-F16 6 M12 x 45 grade 8.8 ZP Bolt 6 0211-1245 Nyloc Nut M12 6 0221-NYL12



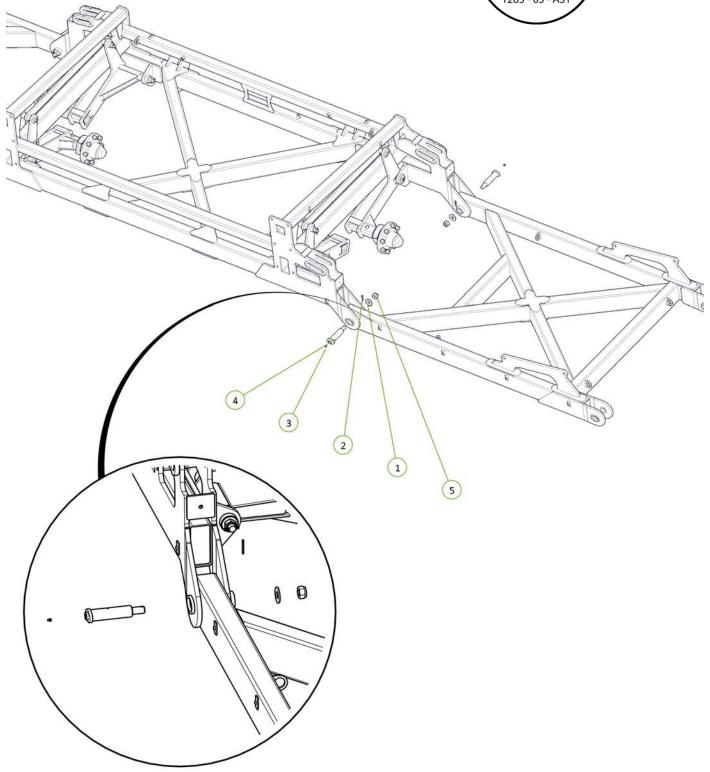


Item No.	Description	Qty	Number
1	50 ID x 40mm DX Bush	4	0113-MB 5040DX
2	62HDX LH Inner Wing	1	1265-05

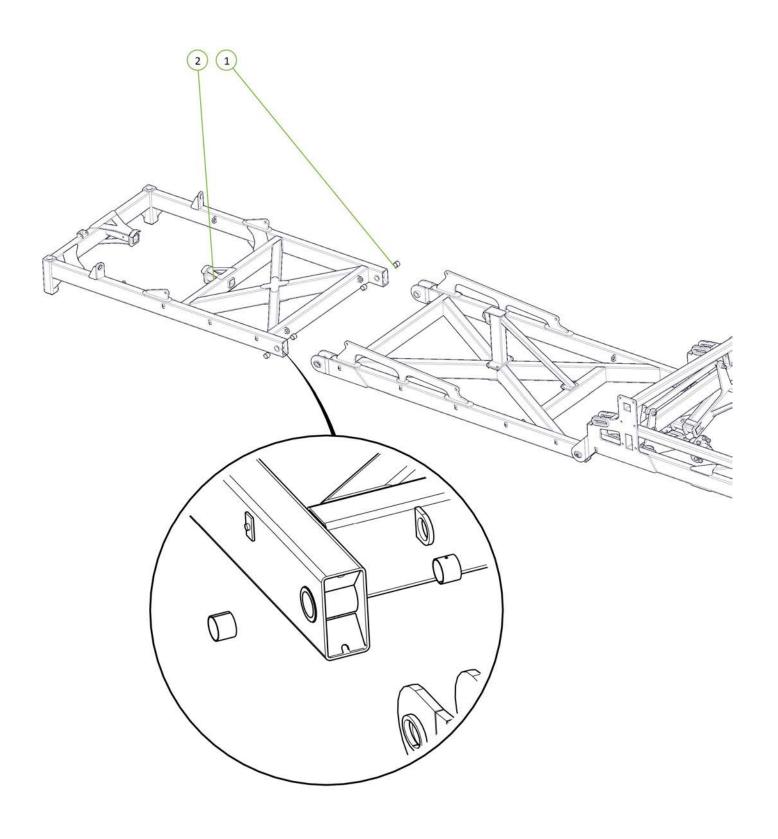


Item No.	Description	Qty	Number
1	50mm Pivot Pin Retaining Washer	2	1200-60
2	Cotter Pin M6 x 50mm	2	0261-PINC650
3	Grease Nipple 1/8" BSP	2	0181-GN1-8
4	Oval Head 50mm Short Pivot Pin	2	1202-06
5	Nyloc Nut M30	2	0221-NYL30



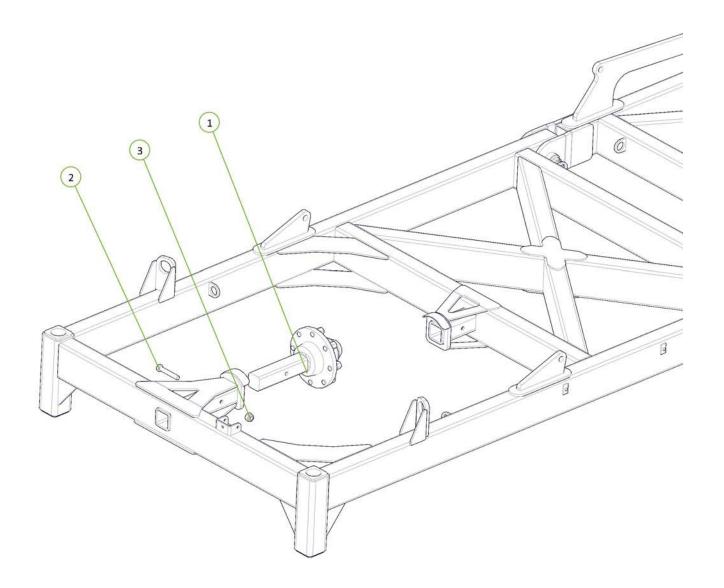


Item No.	Description	Qty	Number
1	50 ID x 40mm DX Bush	4	0113-MB 5040DX
2	62HDX RH Outer Wing	1	1265-06



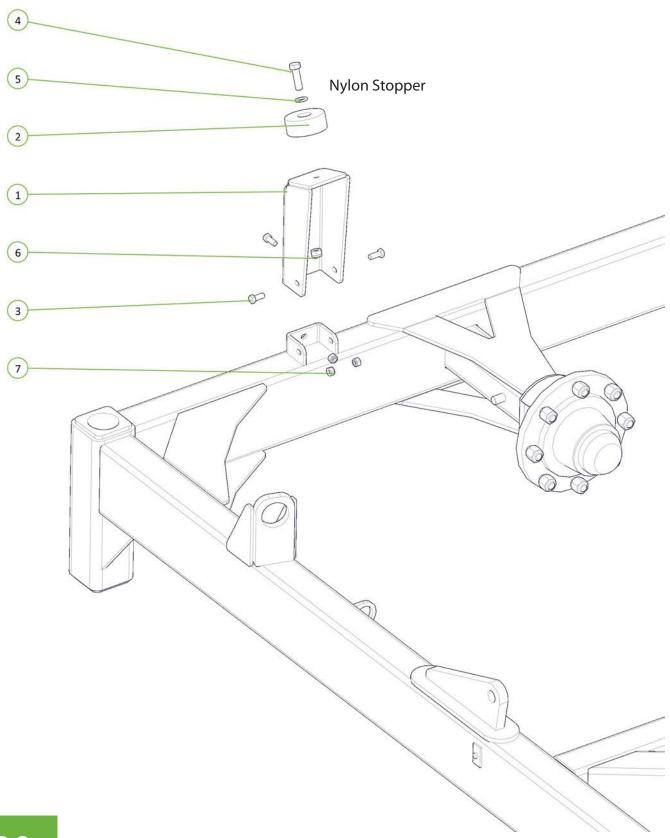
Item No.	Description	Qty	Number
1	90 Series Stub Axle (Stub and Hub Complete)	1	0733-90
2	M20 x 130 grade 8.8 ZP Bolt	1	0211-20130
3	Nyloc Nut M20	1	0221-NYL20



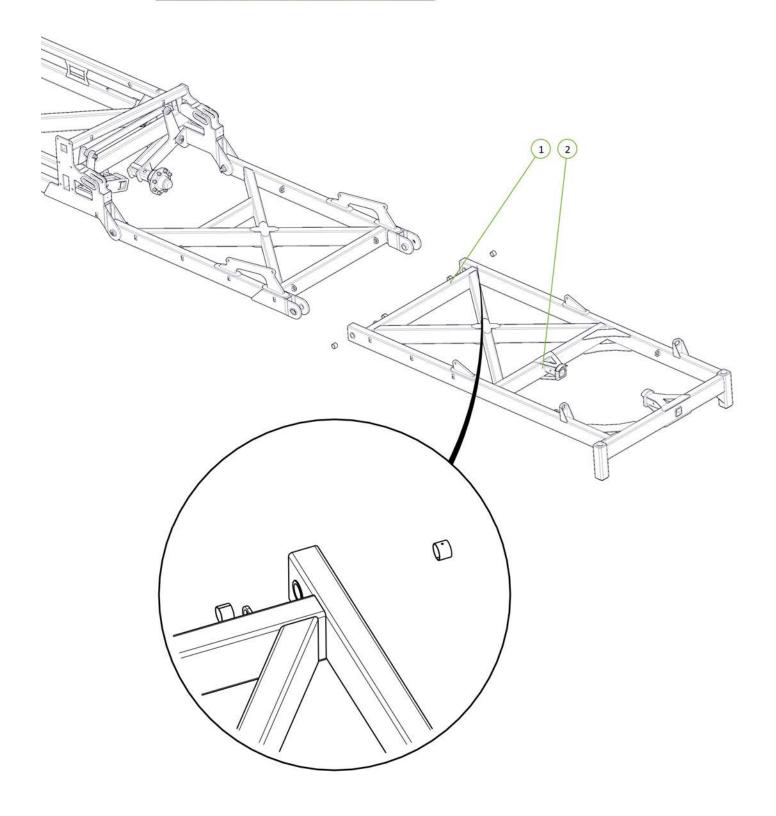


Item No.	Description	Qty	Number
1	65' Outer Wing Post	1	1200-154
2	Wing Folding Buffer	1	1201-12
3	M12 x 30 grade 8.8 ZP Bolt	3	0211-1230
4	M16 x 55 grade 8.8 zp Bolt	1	0211-1655
5	Washer Flat M16	1	0231-F16
6	Nyloc Nut M16	1	0221-NYL16
7	Nyloc Nut M12	3	0221-NYL12

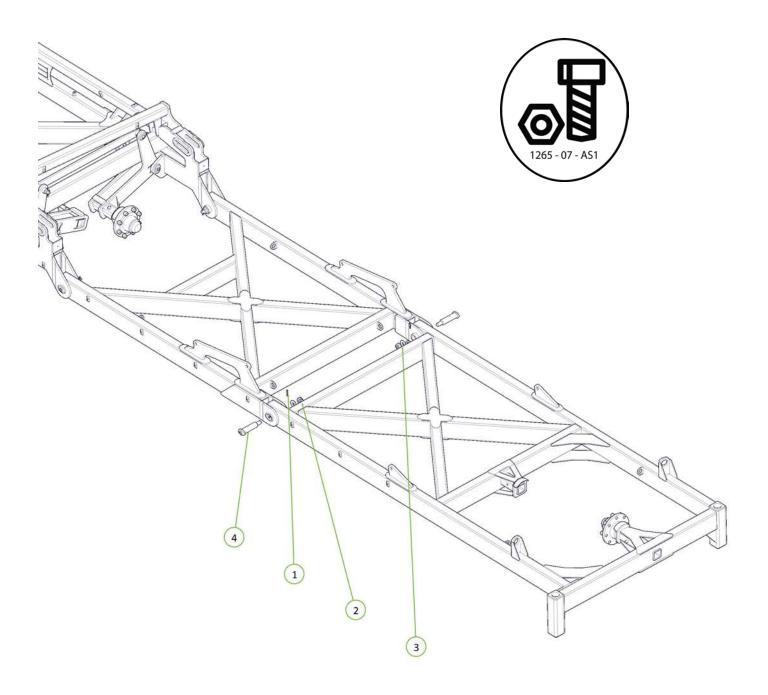




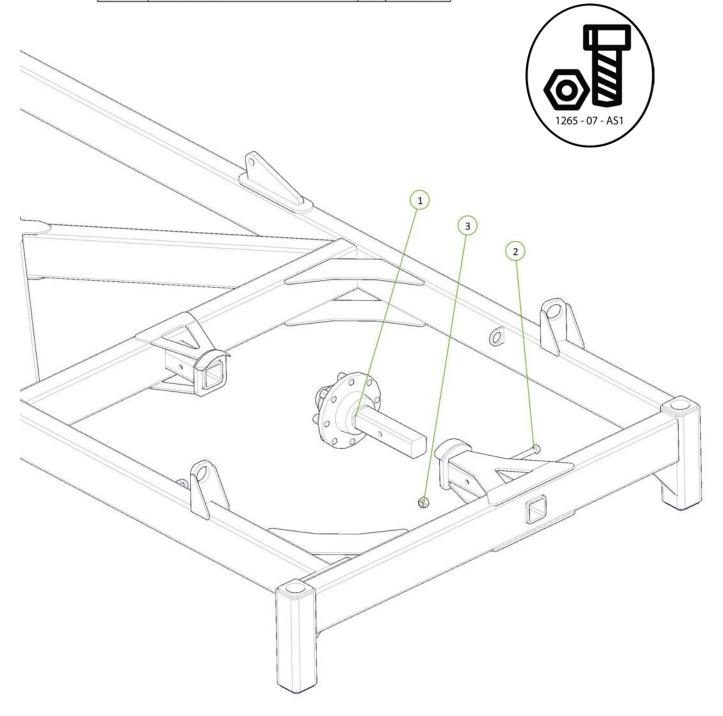
Item No.	Description	Qty	Number
1	50 ID x 40mm DX Bush	4	0113-MB 5040DX
2	62HDX LH Outer Wing	1	1265-07



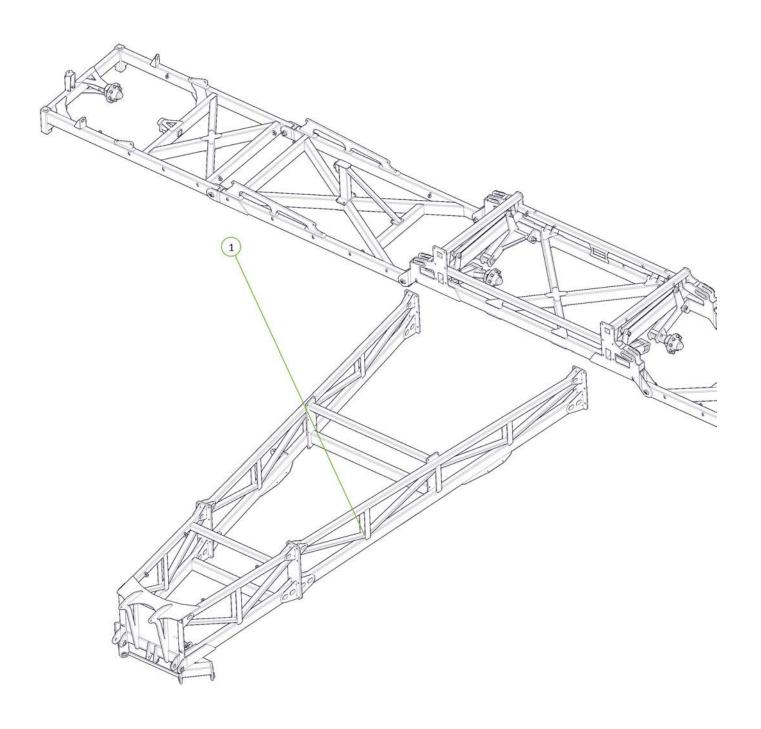
Item No.	Description	Qty	Number
1	Cotter Pin M6 x 50mm	2	0261-PINC650
2	Nyloc Nut M30	2	0221-NYL30
3	50mm Pivot Pin Retaining Washer	2	1200-60
4	Oval Head 50mm Short Pivot Pin	2	1202.06A

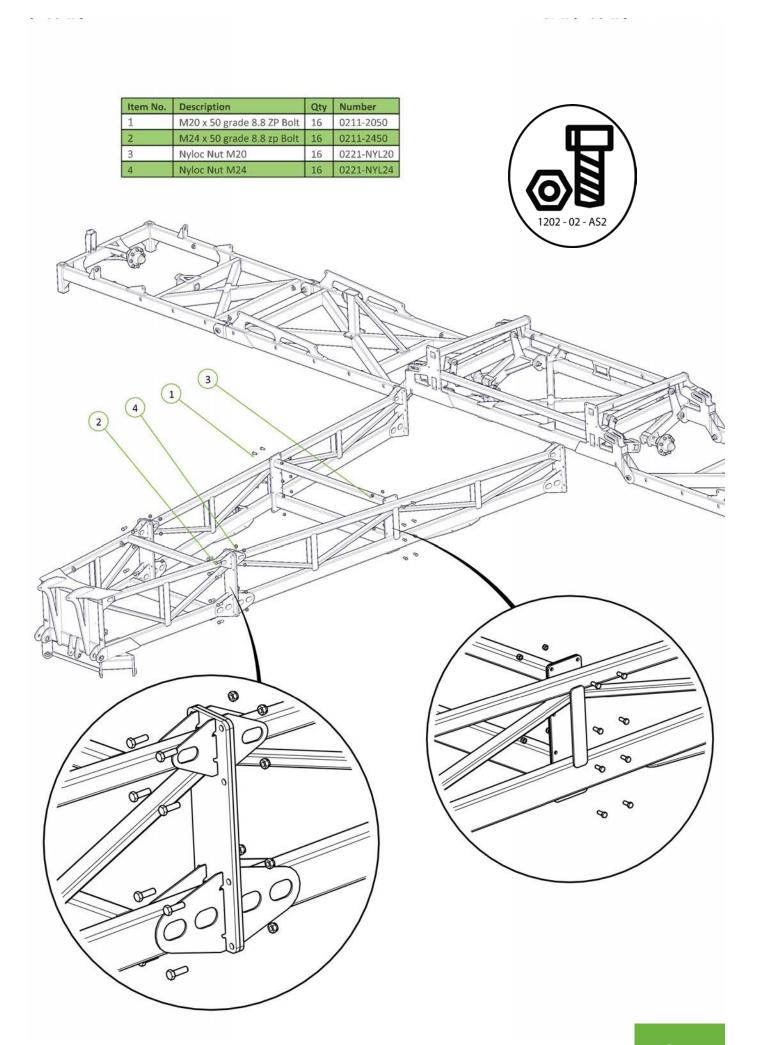


Item No.	Description	Qty	Number
1	90 Series Stub Axle (Stub and Hub Complete)	1	0733-90
2	M20 x 130 grade 8.8 ZP Bolt	1	0211-20130
3	Nyloc Nut M20	1	0221-NYL20

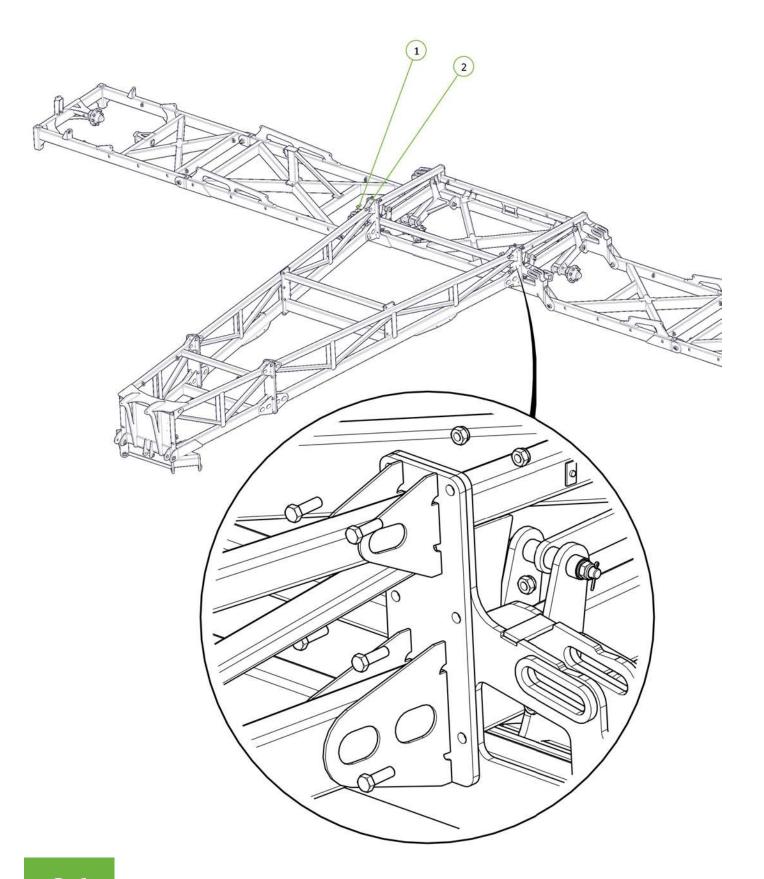


Item No.	Description	Qty	Number
1	62HDX Front A-Frame	1	1265-02



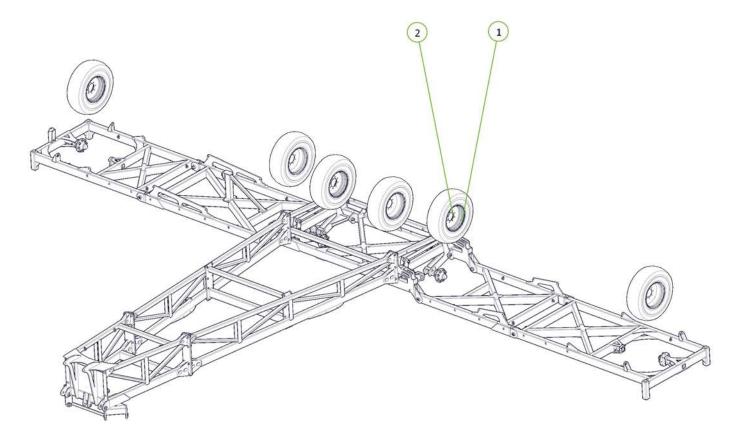


Item No.	Description	Qty	Number
1	M24 x 75 grade 8.8 zp Bolt	12	0211-2475
2	Nyloc Nut M24	12	0221-NYL24

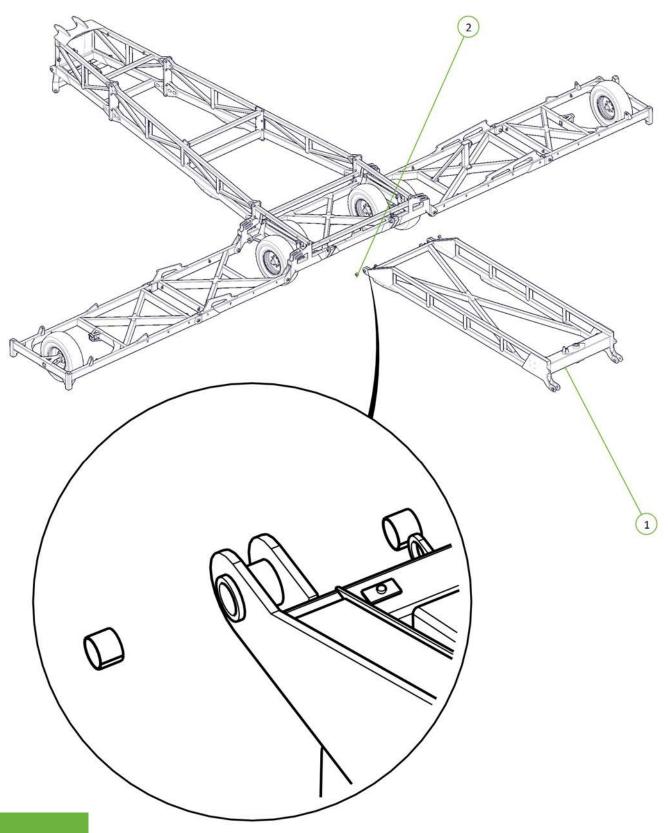


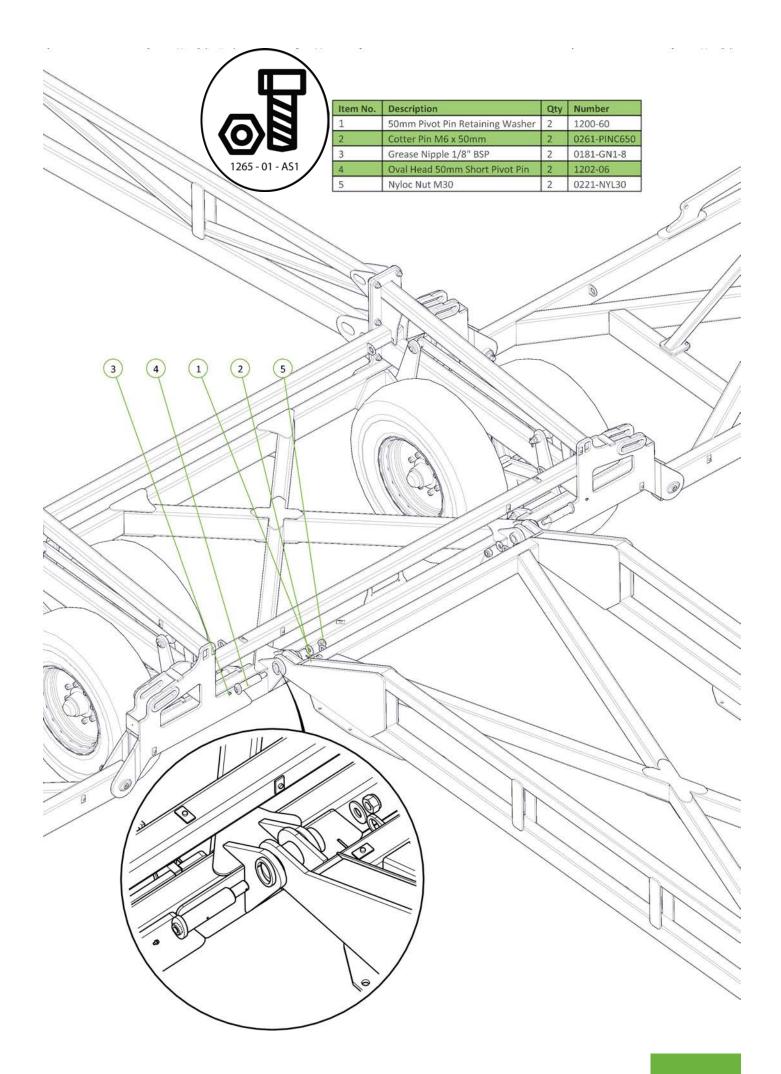
Item No.	Description	Qty	Number
1	Tyre Only 15.5/80-24 16 PLY AS504	6	0711-15.5-80-24
2	Rim Only 24"Diameter 12"Wide, 8 on 275 PCD, 221mm Bore,+20 Offset	6	0721-24X12





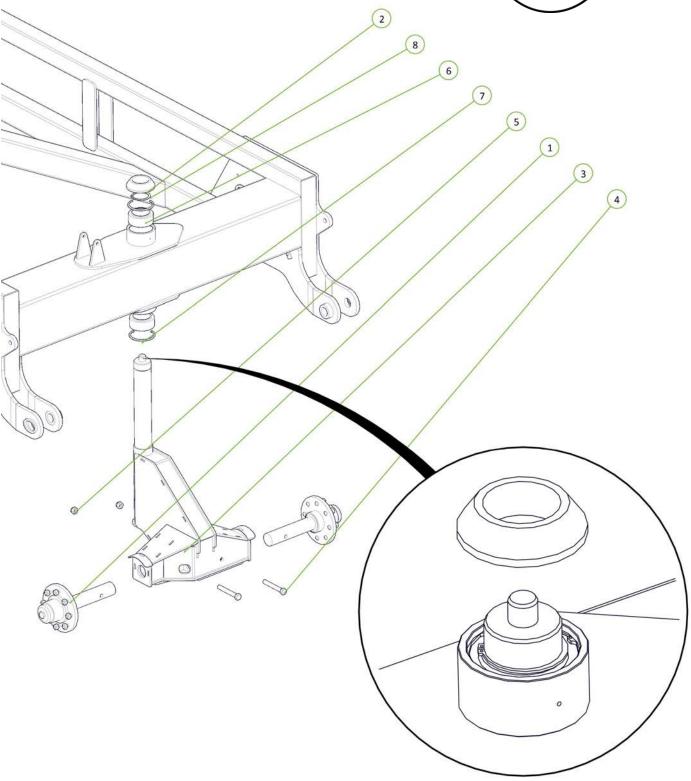
Item No.	Description	Qty	Number
1	62'HDX Rear A-Frame	1	1265-03
2	50 ID x 40mm DX Bush	4	0113-MB 5040DX

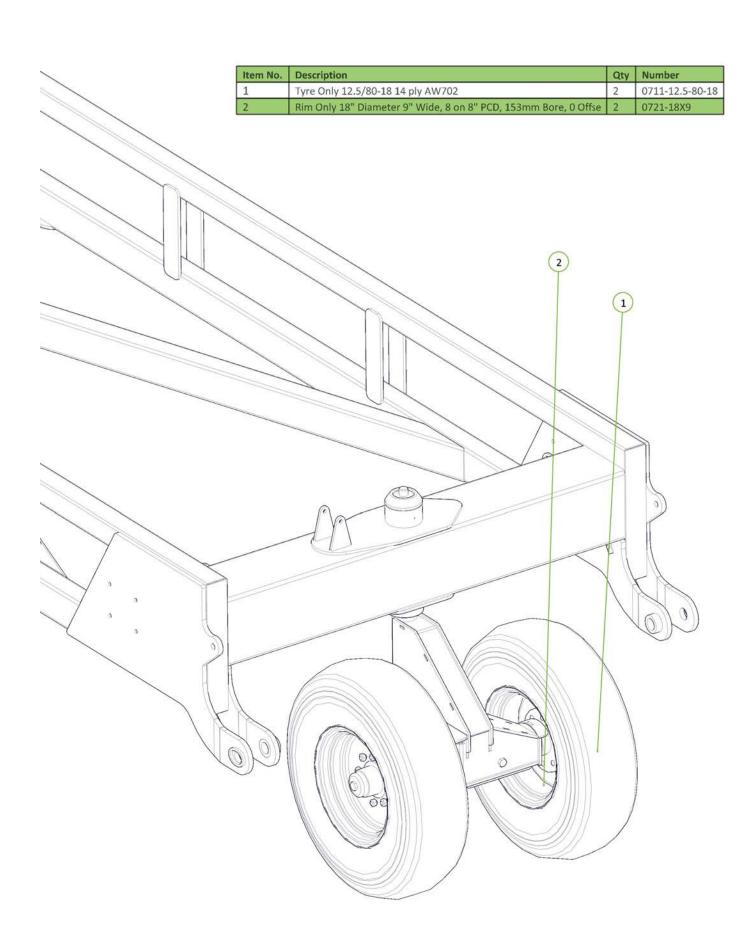


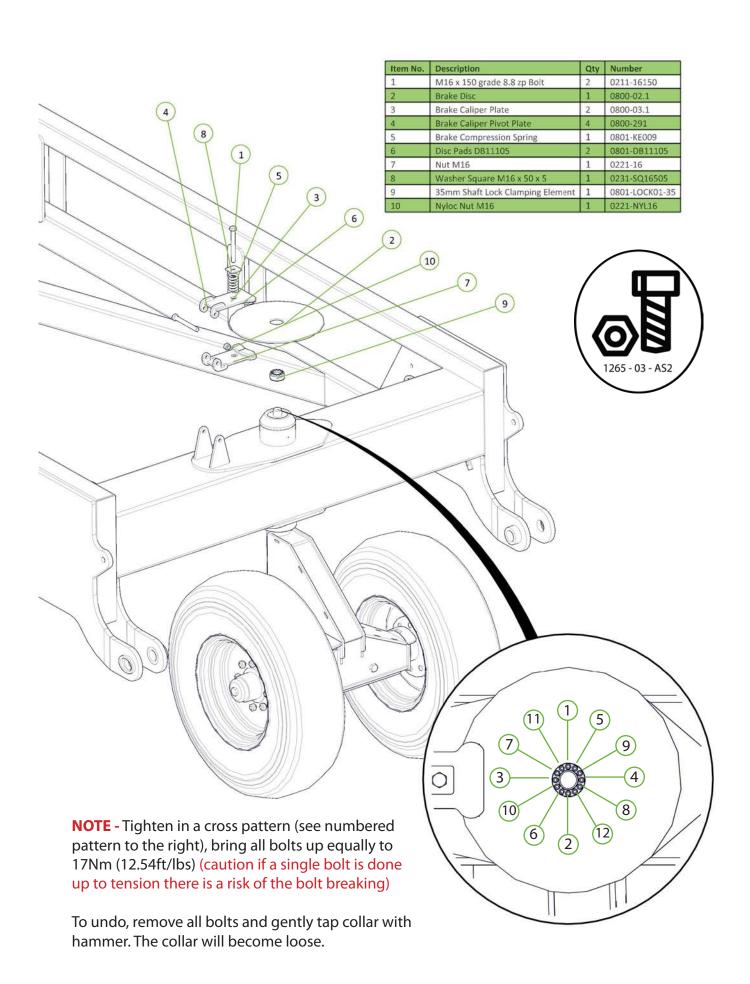


Item No.	Description	Qty	Number
1	2.75"R 6 Tonne 8 on 8" PCH Hub	2	0733-SH27596880
2	90mm Nylon Jockey Wheel Dust Cap	1	1201-43
3	Heavy Duty Jockey Wheel	1	1210-80
4	M20 x 150 grade 8.8 ZP Bolt	2	0211-20140
5	Nyloc Nut M20	2	0221-NYL20
6	Plain Spherical Bearing 90mm	2	0113-GE90DO-2RSP
7	Circlip Internal 130mm	2	0171-J130
8	Circlip External 90mm	1	0172-D1400-90

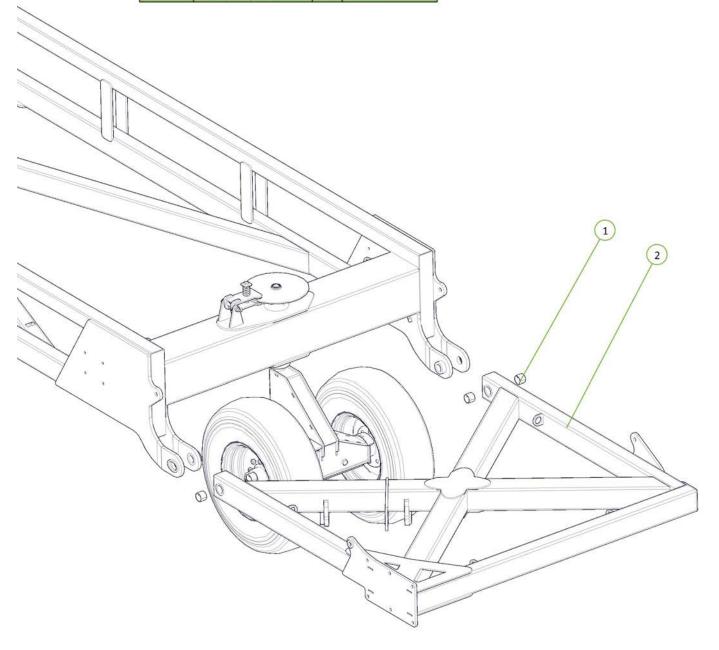


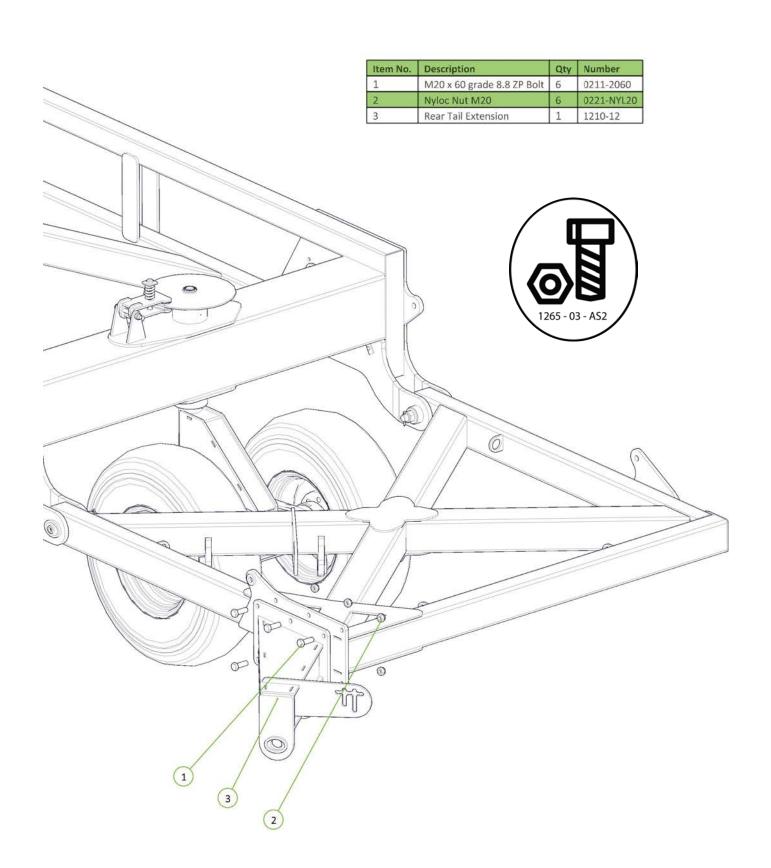


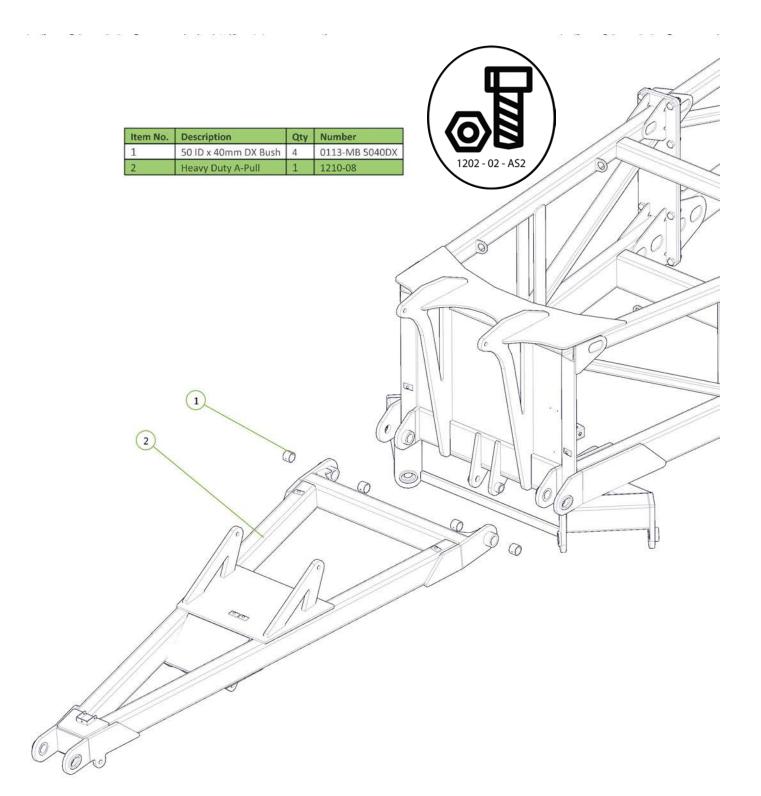




Item No.	Description	Qty	Number
1	50 ID x 40mm DX Bush	4	0113-MB 5040DX
2	Heavy Duty Rear Tail	1	1210-10





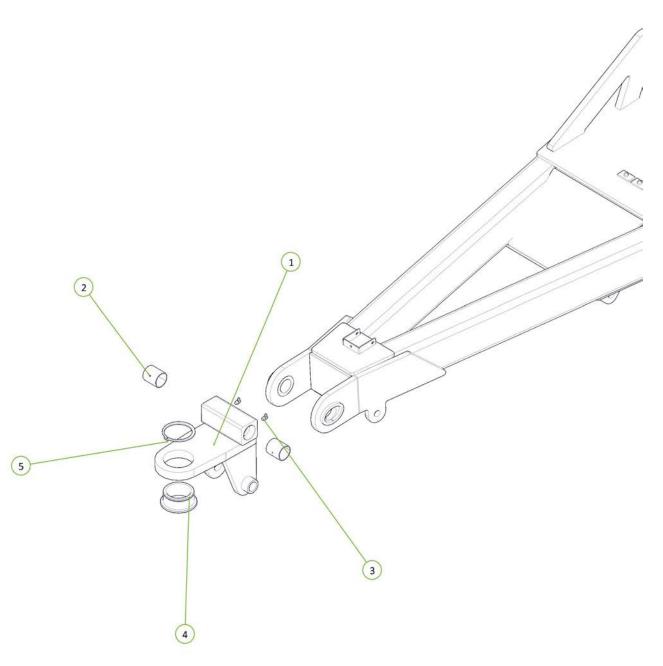


Item No.
1
2
3
4
5
5

50 N St.	March State Co.	5280	1.64
Item No.	Description	Qty	Number
	Hoavy Duty Drawbar Hitch	1000	Curvers to take or

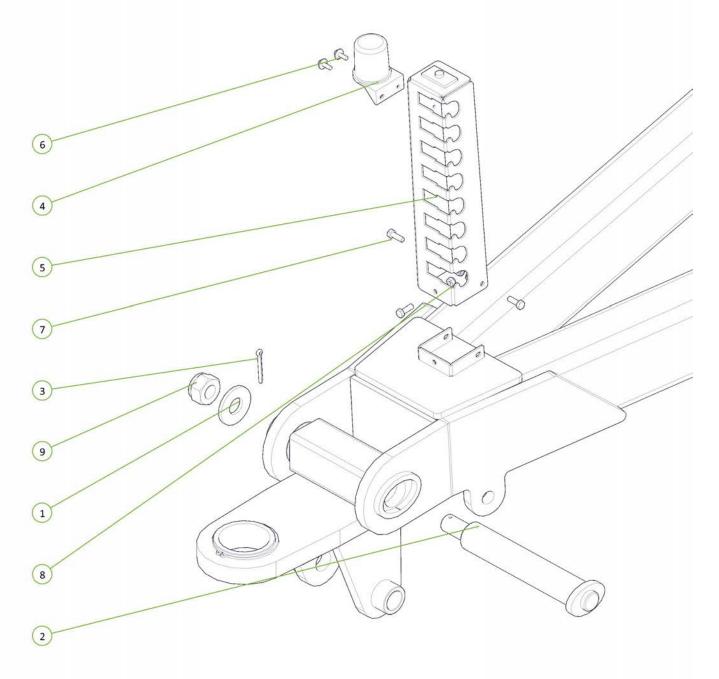
1	Heavy Duty Drawbar Hitch	1	1210-09
2	50 ID x 60mm DX Bush	2	0113-MB 5060DX
3	Grease Nipple 1/8" BSP 90 deg	2	0181-GN1-890
4	2 3/4" Tow Hitch Bush	1	0801-KE-0905-1-D
5	Circlin External 105mm	1	0172-1400-105





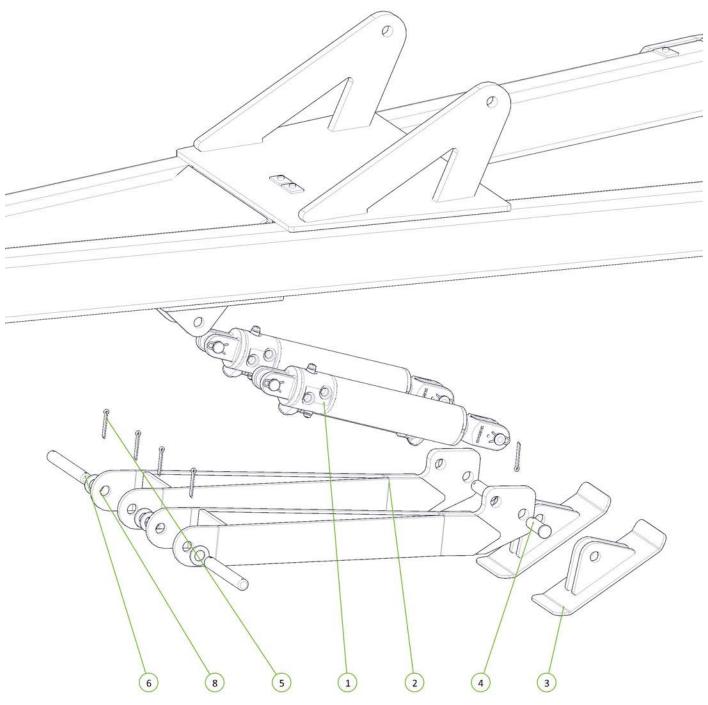
Item No.	Description	Qty	Number
1	50mm Pivot Pin Retaining Washer	1	1200-60
2	50mm Tow Hitch Pivot Pin	1	1202-11
3	Cotter Pin M6 x 50mm	1	0261-PINC650
4	Electrical Plug Keeper	1	0416-11750B
5	Hose Post	1	0810-151
6	M6 x 20 Trilobe Self Tapping Screw	2	0211-M620MZPHTF
7	M8 x 25 grade 8.8 ZP Bolt	3	0211-825
8	Nyloc Nut M8	3	0221-NYL8
9	Nyloc Nut M30	1	0221-NYL30





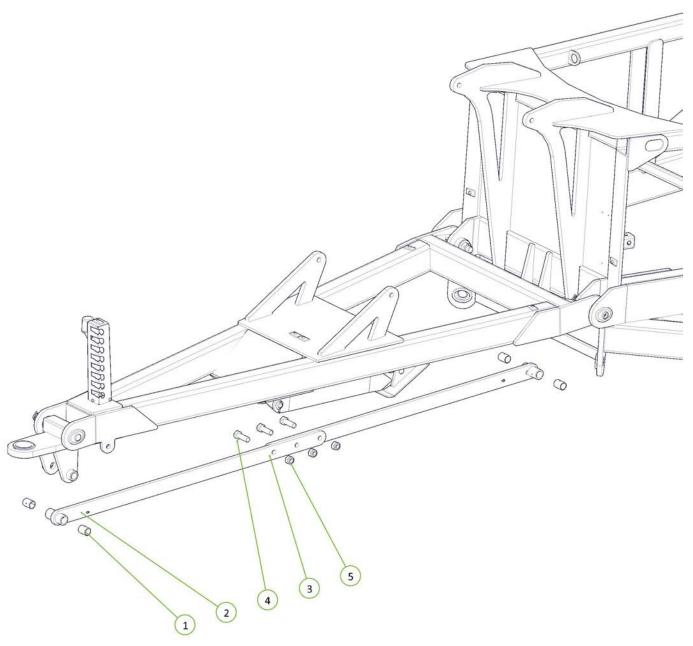
Item No.	Description	Qty	Number
1	3" Bore 8" Stroke NI Cylinder with Int DCBV Valve	2	0313-308SPOC-B
2	Hyd Jack Side Plate	4	1200-315
3	Hydraulic Jack Foot Plate	2	1200-305
4	Clevis Pin 25mm x 75mm	2	0801-KE0307-1
5	Cotter Pin M5 x 50	6	0261-PINC550
6	25mm Shaft 185mm Long	2	1201-44
8	Washer Flat M24	4	0231-F24





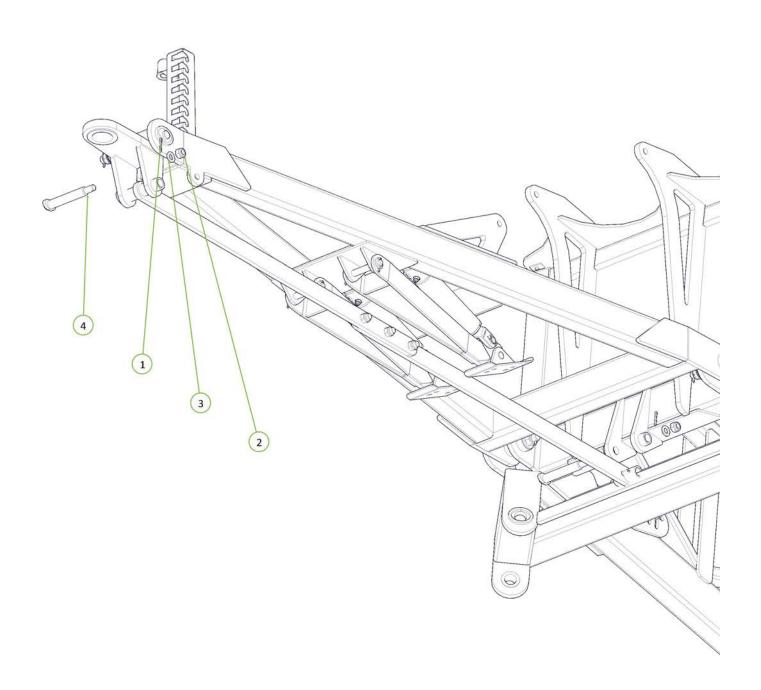
Item No.	Description	Qty	Number
1	35 ID x 50mm DX Bush	4	0113-MB 3550DX
2	Grease Nipple 1/4" UNF	4	0181-GN1-4
3	Parrallelogram Link Half	2	1210-22
4	M24 x 50 grade 8.8 zp Bolt	3	0211-2475
5	Nyloc Nut M24	3	0221-NYL24

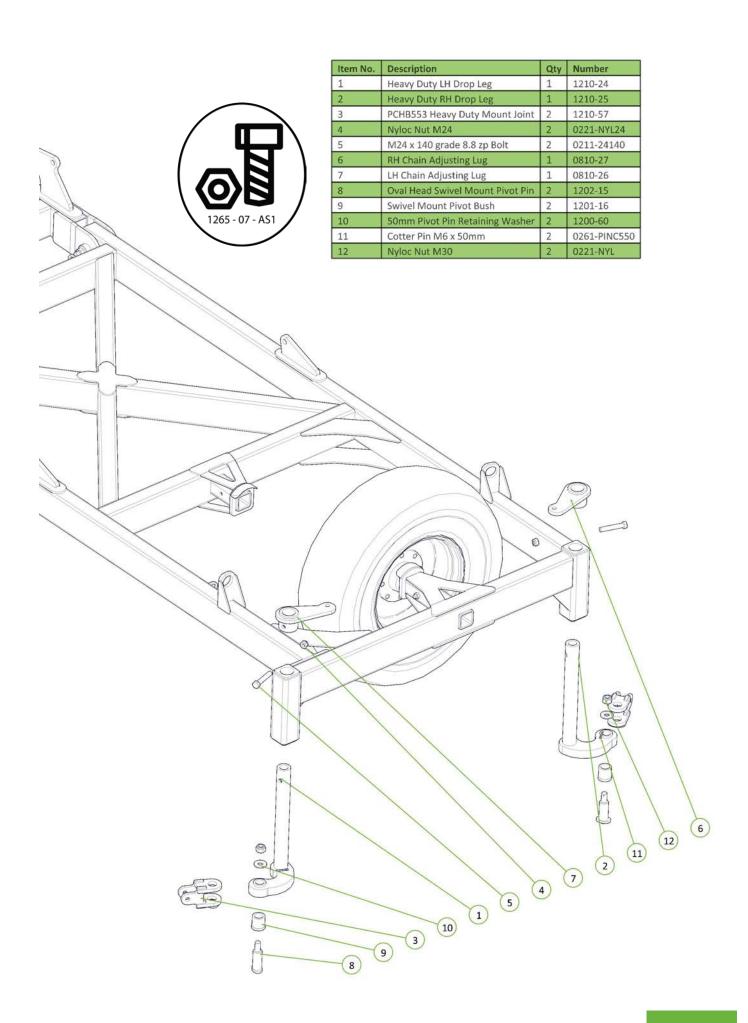


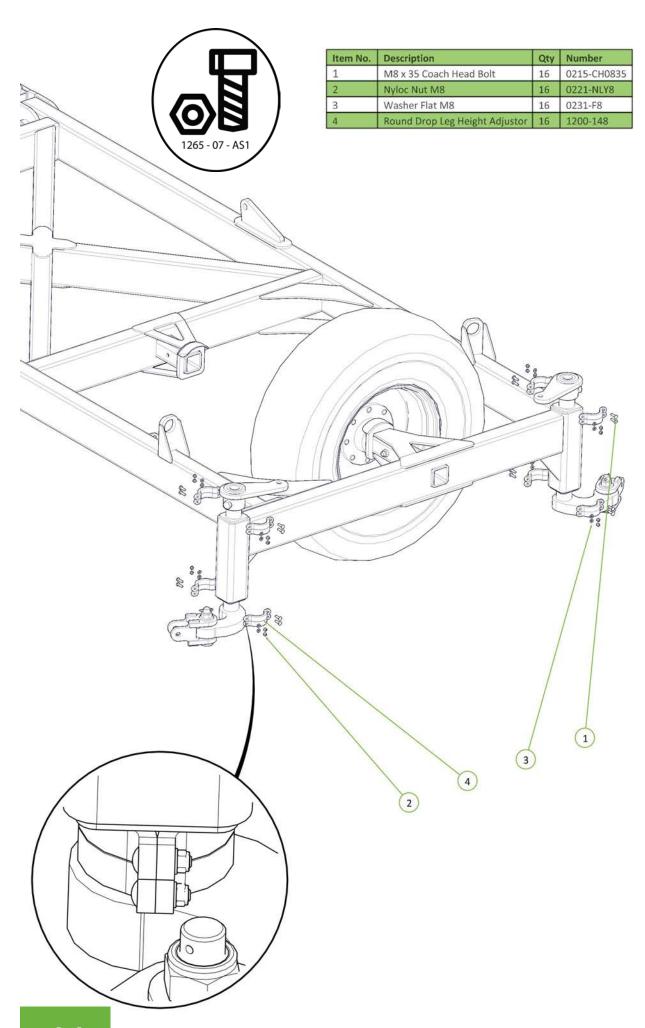


Item No.	Description	Qty	Number
1	Cotter Pin M6 x 50mm	2	0261-PINC650
2	Nyloc Nut M24	2	0221-NYL24
3	Washer Flat M24	2	0231-F24
4	Oval Head 35mm Pivot Pin	2	1202-09

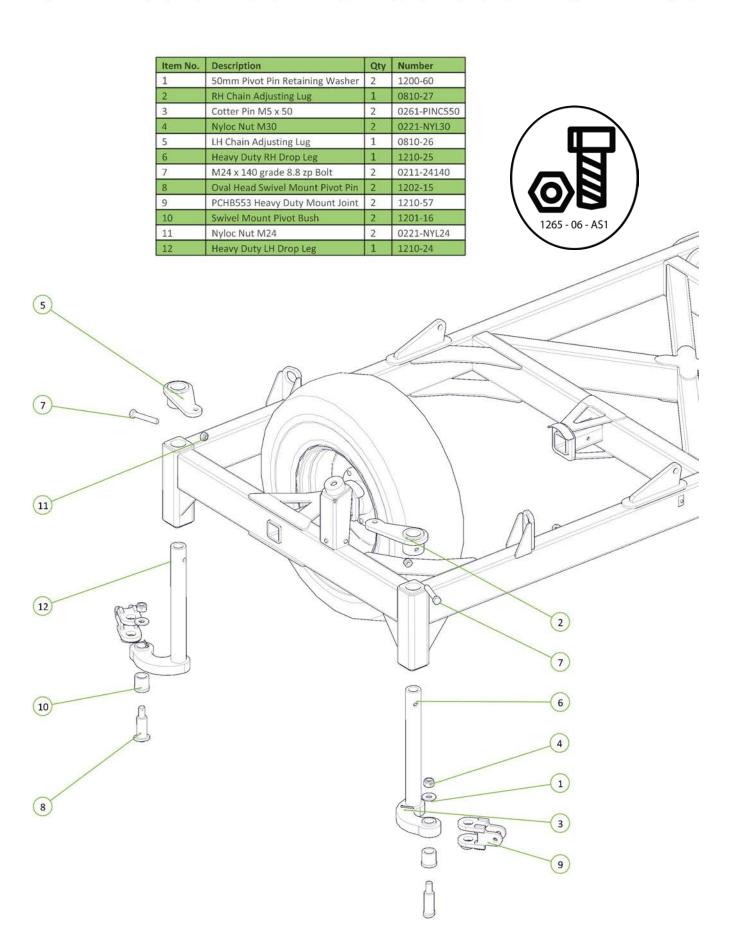








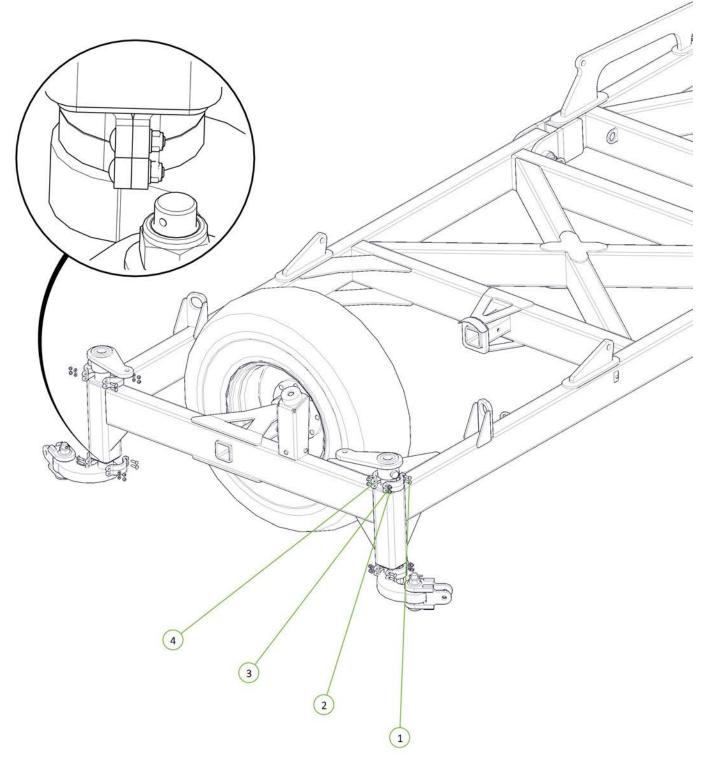
Item No. Description Qty Number 0801-XK9261S 20mm Compression Spring 2 Washer High Tensile 1 1/4" 0232-HT11-4 0802-PCHTA Chain Tension Assembly 2 4 0801-KE0805-3 Tensioner Cup - Male Female Spring Locator 0801-KE0805-4 2 0 0 QE o or amountain 9 0 4 1 2

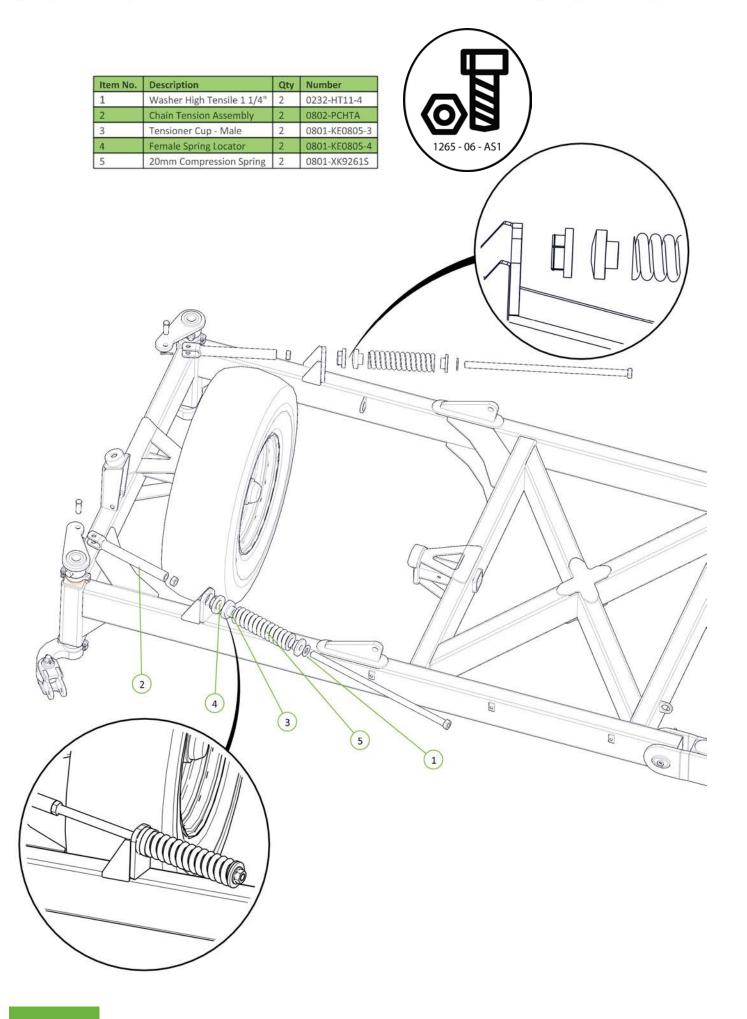






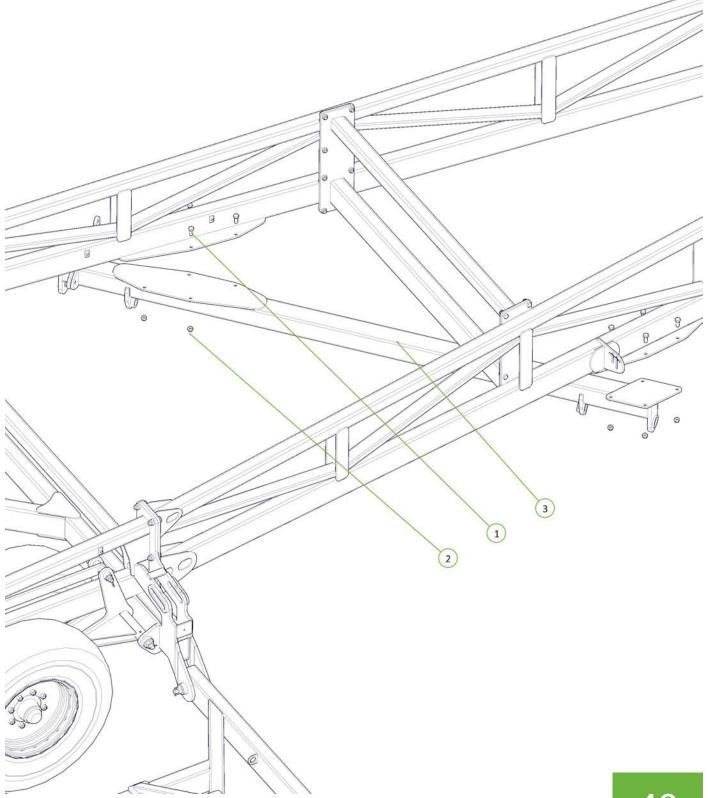
Item No.	Description	Qty	Number
1	M8 x 35 Coach Head Bolt	16	0215-CH0835
2	Nyloc Nut M8	16	0221-NYL8
3	Washer Flat M8	16	0231-F8
4	Round Drop Leg Height Adjustor	16	1200-148

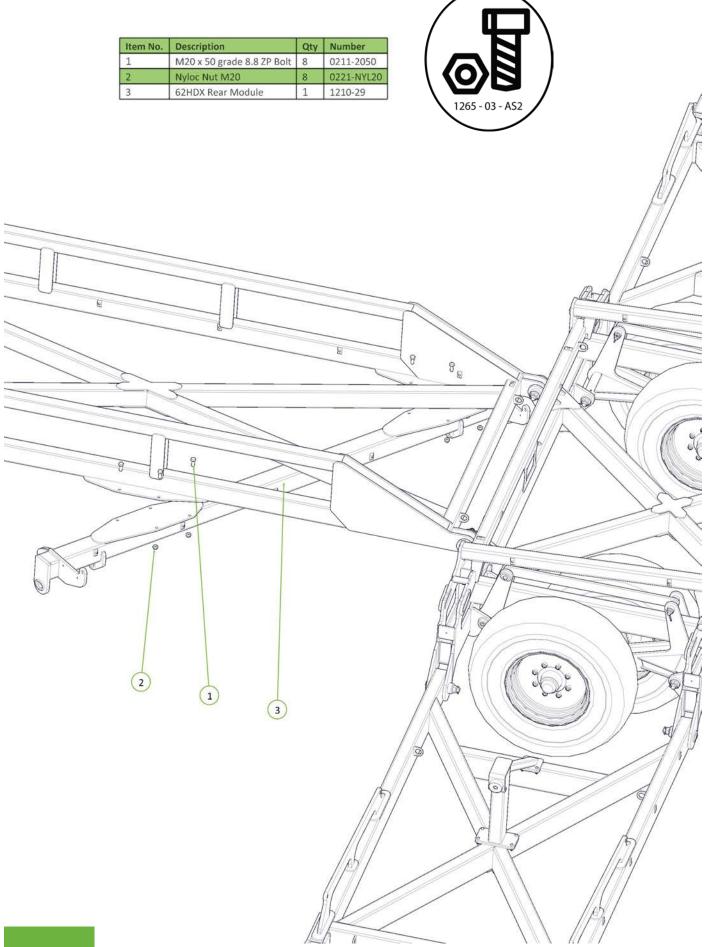


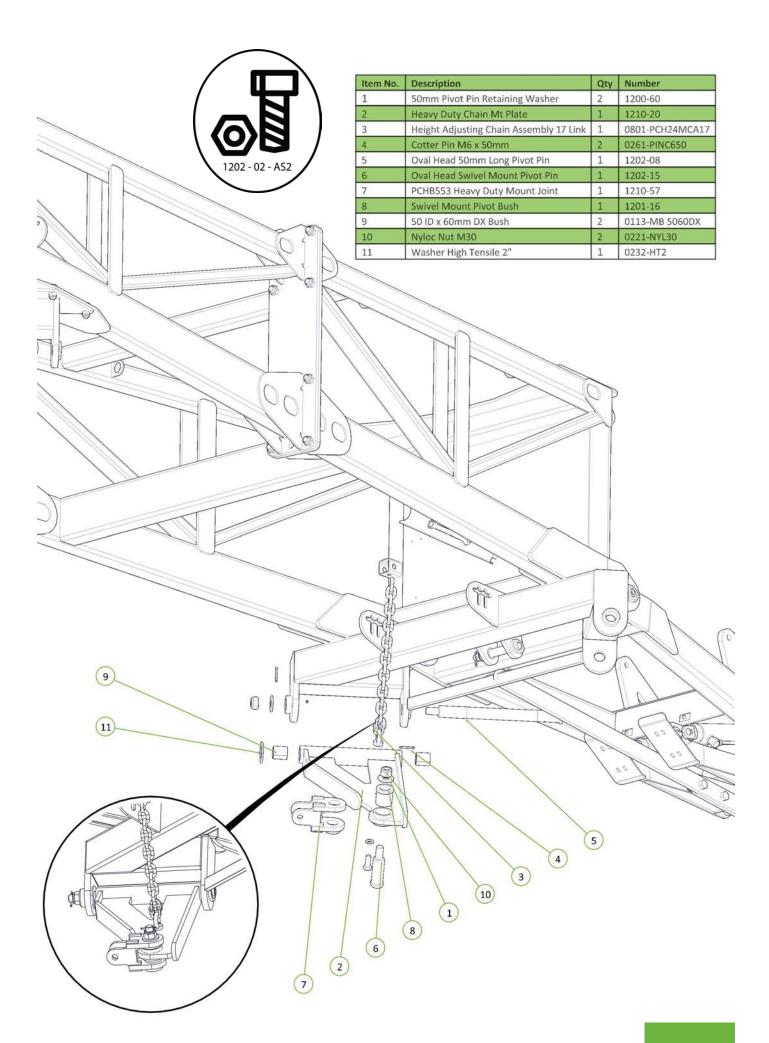


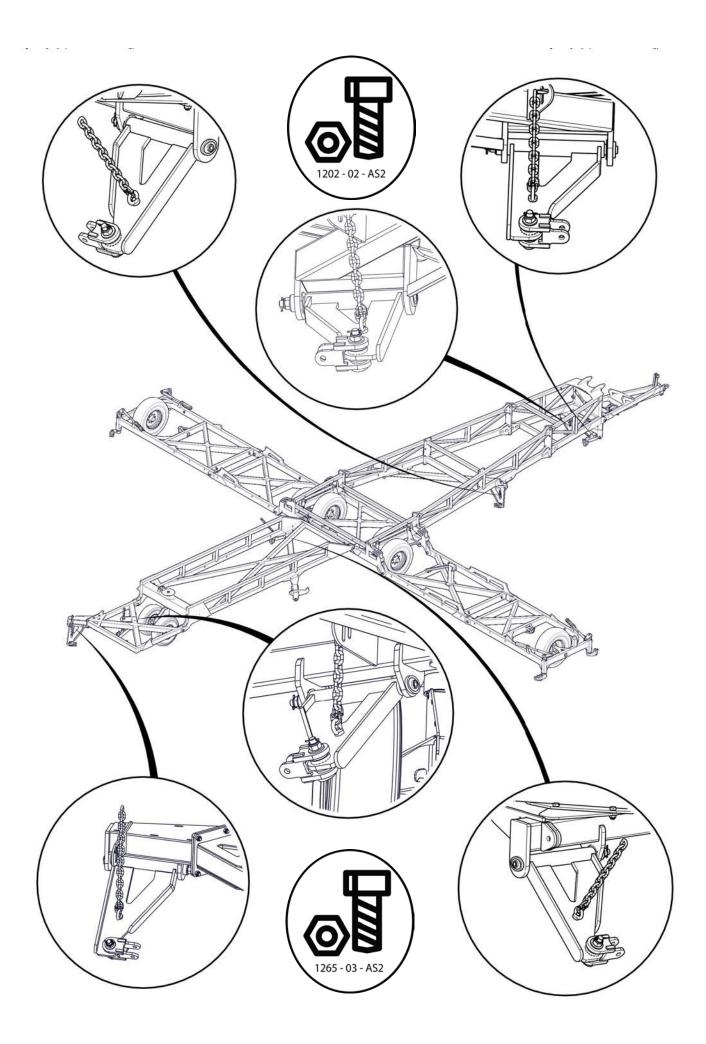
Item No.	Description	Qty	Number
1	M20 x 50 grade 8.8 ZP Bolt	8	0211-2050
2	Nyloc Nut M20	8	0221-NYL20
3	62HDX Front Module	1	1210-28

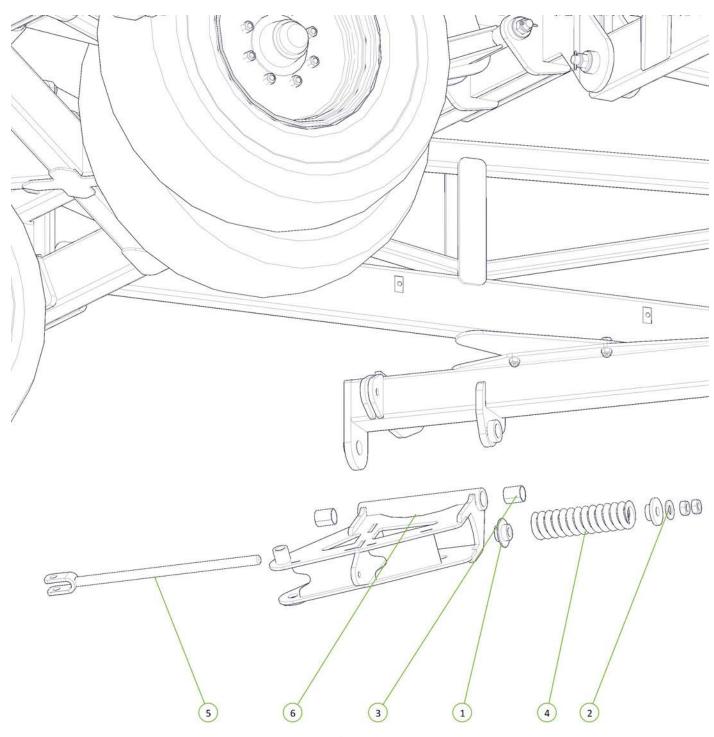






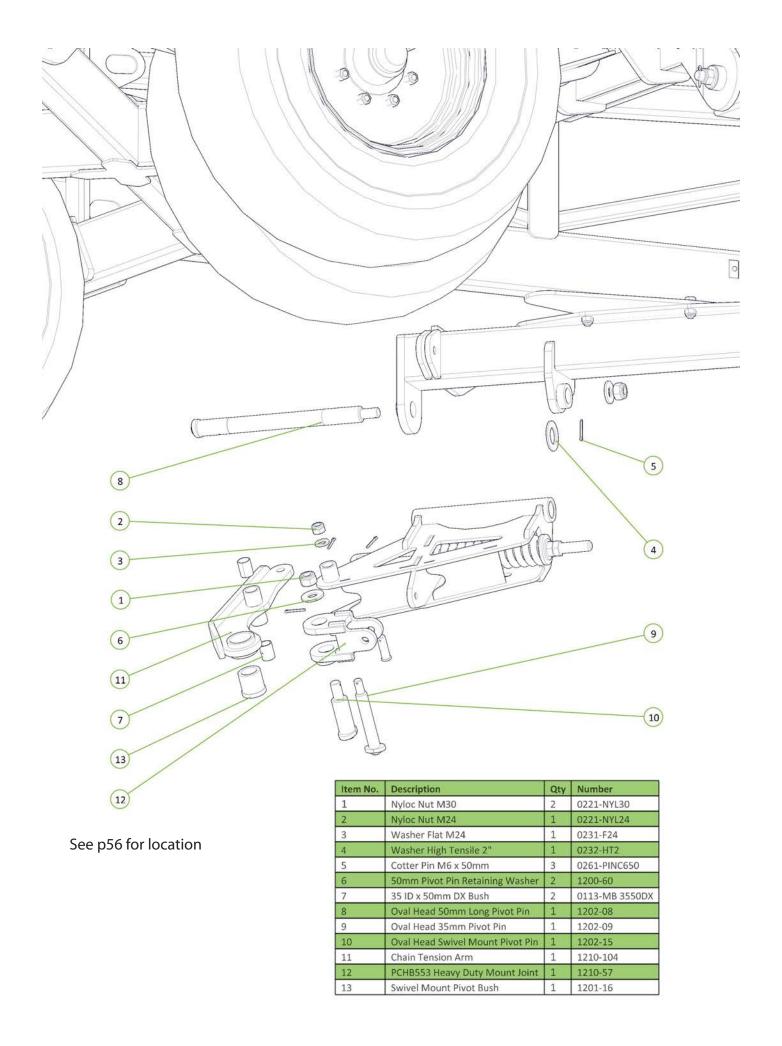


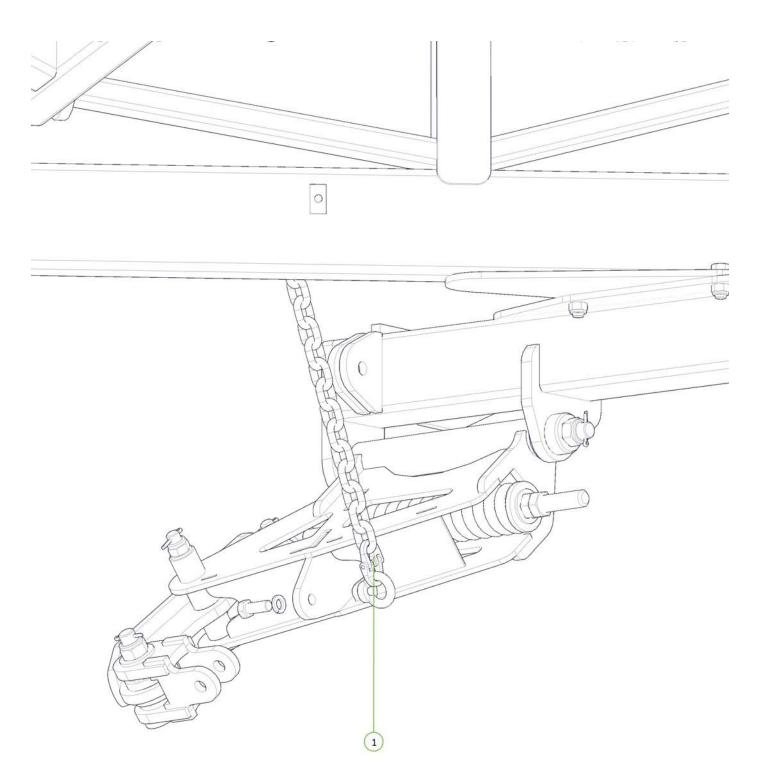




See p56 for location

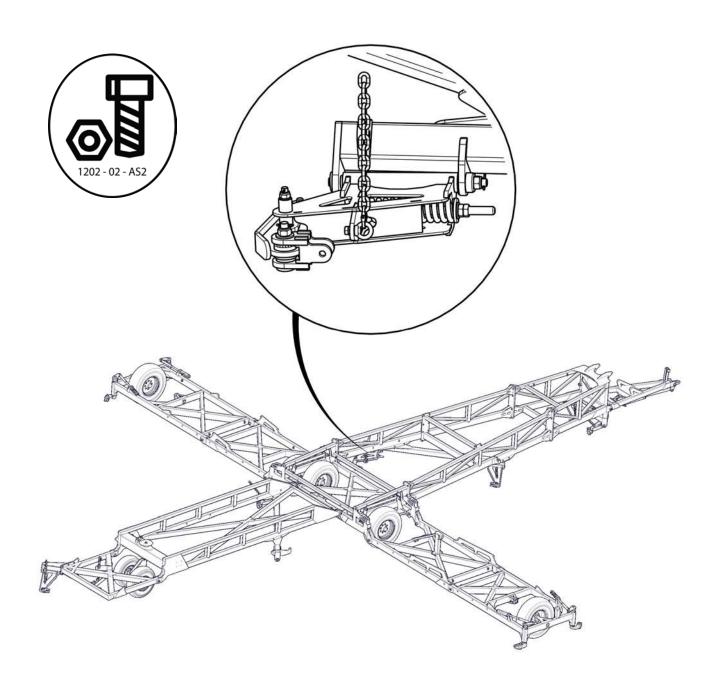
Item No.	Description	Qty	Number
1	Rigid Spring Locator	1	0801-10-S2L
2	Washer High Tensile 1 1/4"	1	0232-HT11-4
3	50 ID x 60mm DX Bush	2	0113-MB 5060DX
4	20mm Compression Spring	1	0801-XK9261S
5	Module Tension Linkage	1	0810-105A
6	Left Hand Chain Tension Box	1	1210-103



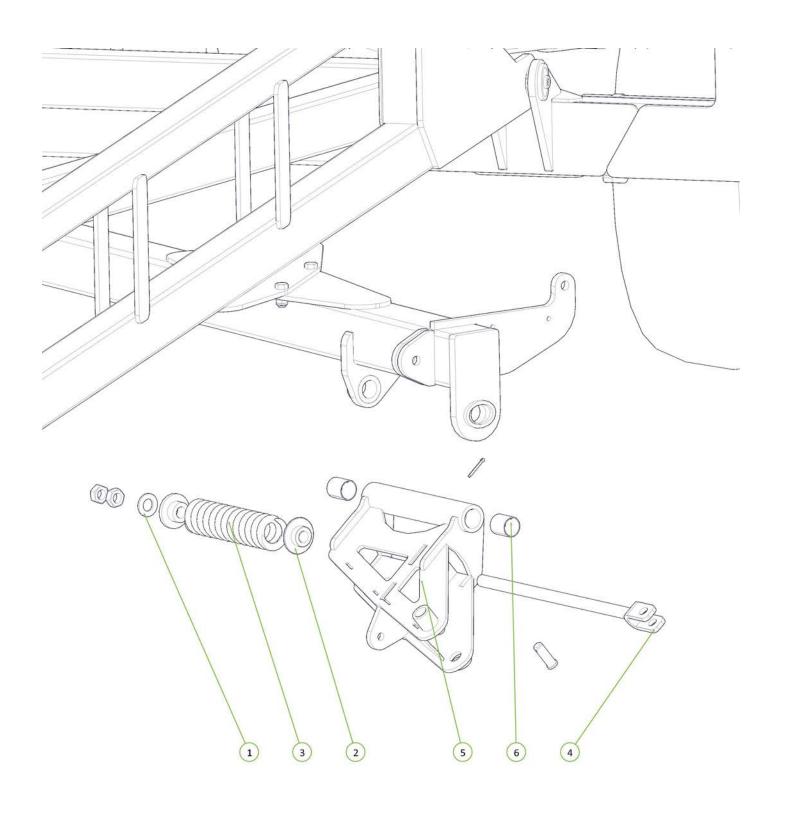


See p56 for location

Item No.	Description	Qty	Number
1	Height Adjusting Chain Assembly 17 Link	1	0801-PCH24MCA17

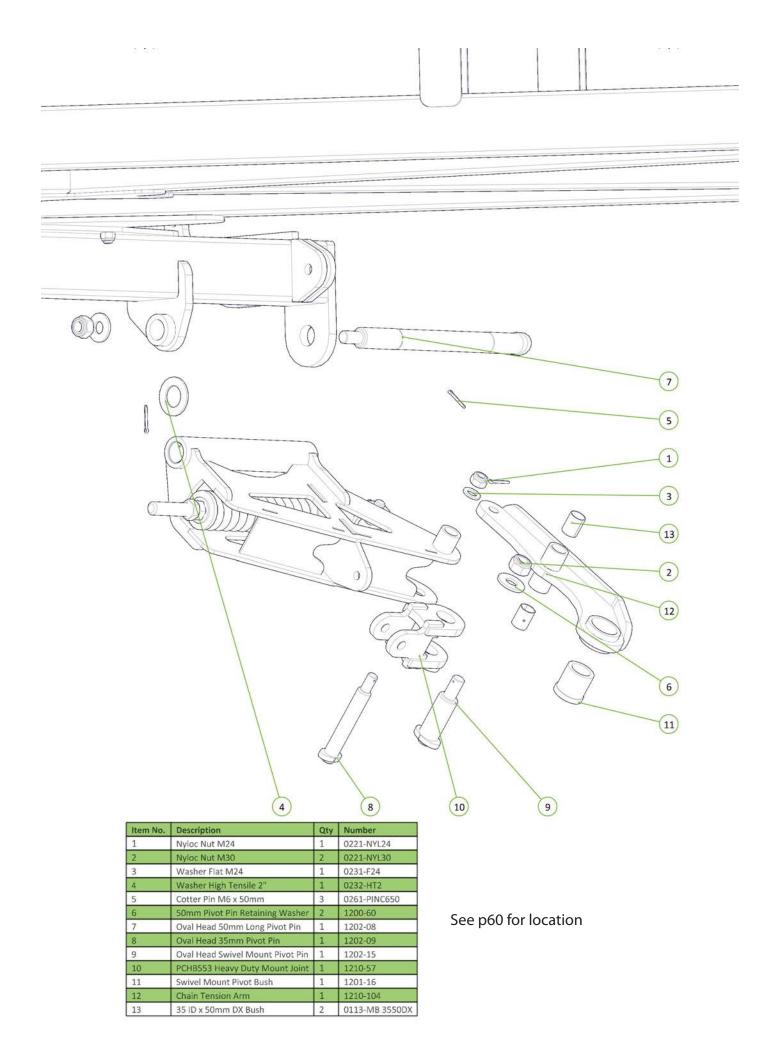


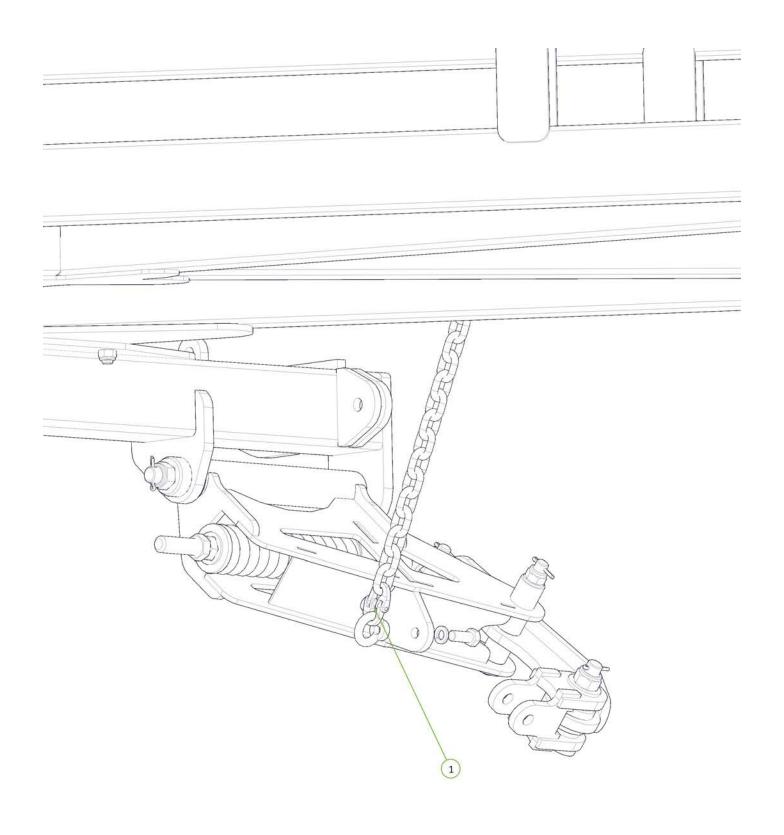




Item No.	Description	Qty	Number
1	Washer High Tensile 1 1/4"	1	0232-HT11-4
2	Rigid Spring Locator	1	0801-10-52L
3	20mm Compression Spring	1	0801-XK9261S
4	Module Tension Linkage	1	0810-105A
5	Right Hand Chain Tension Box	1	1210-102
6	50 ID x 60mm DX Bush	2	0113-MB 5060DX

See p60 for location

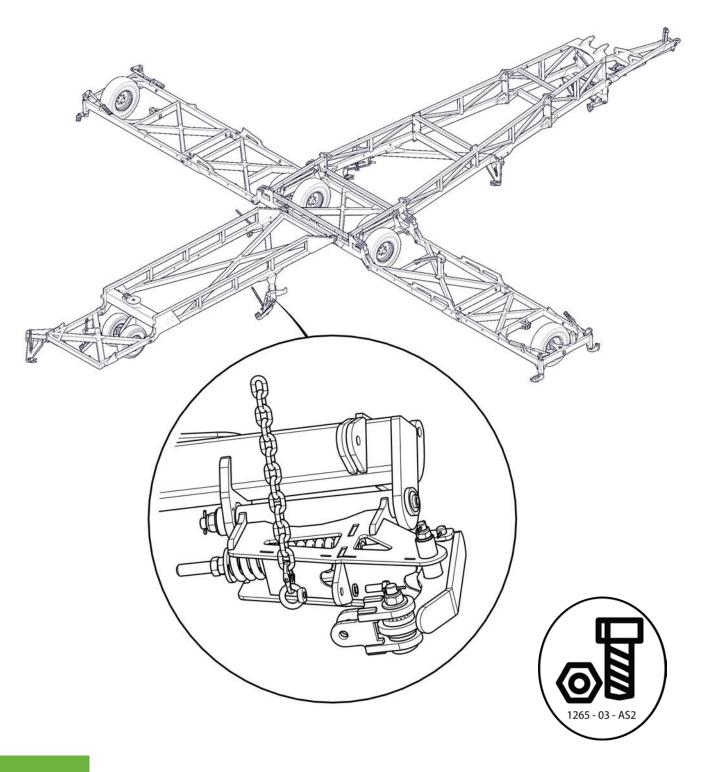


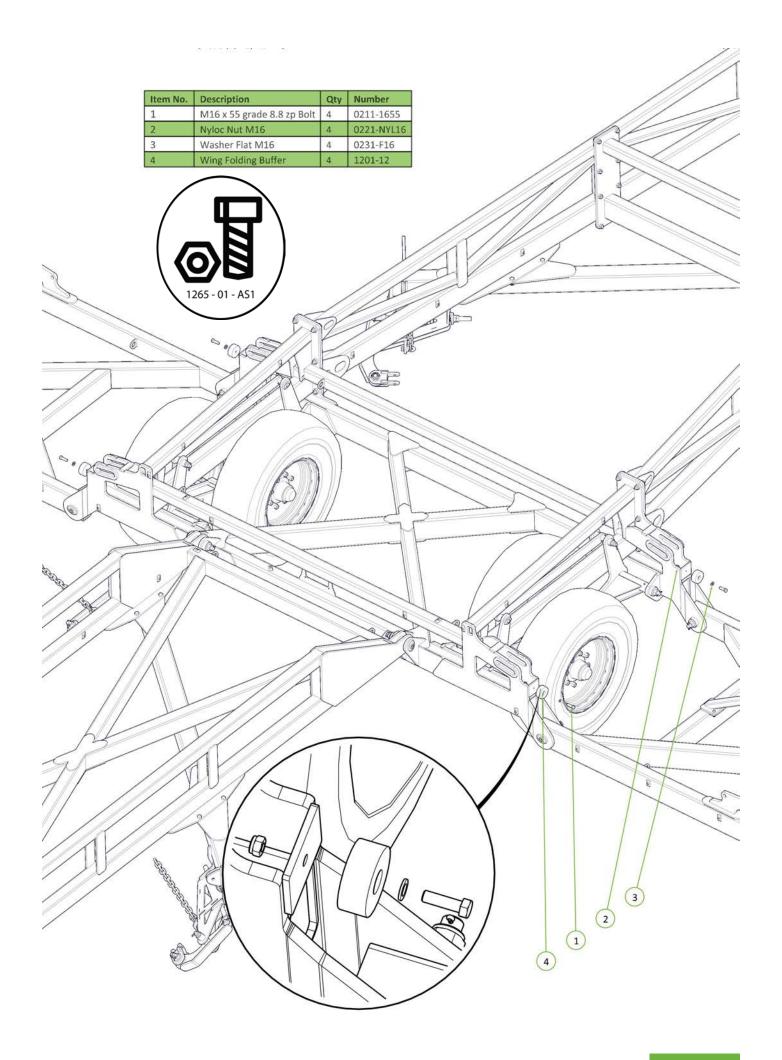


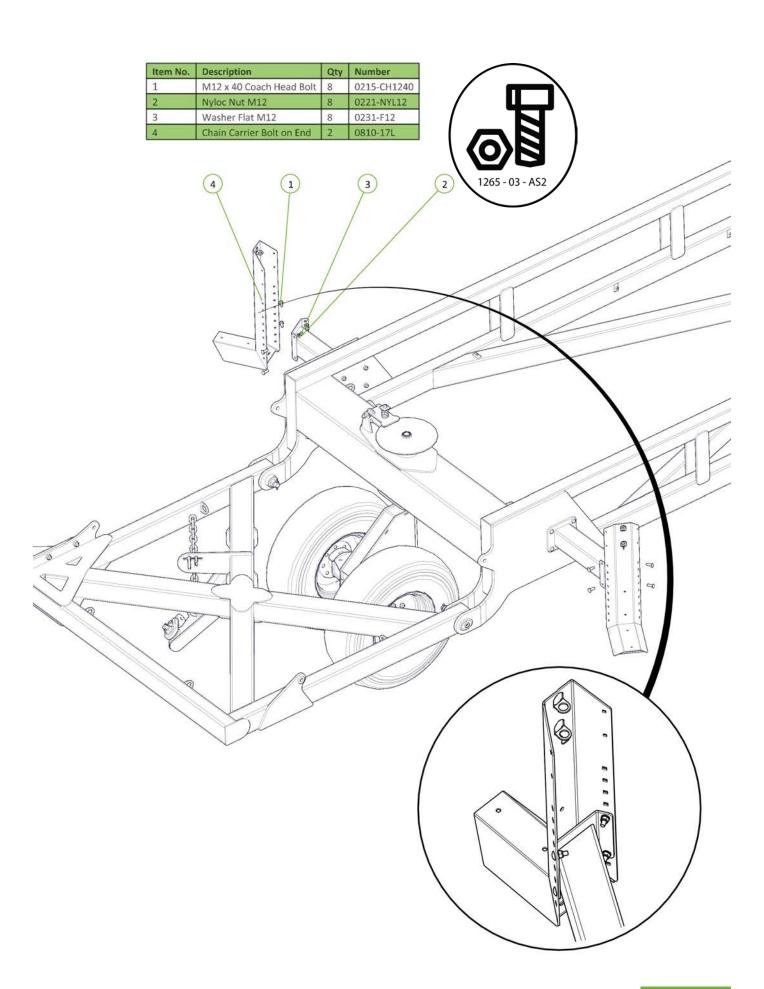
See p60 for location

Item No.	Description	Qty	Number
1	Height Adjusting Chain Assembly 17 Link	1	0801-PCH24MCA17





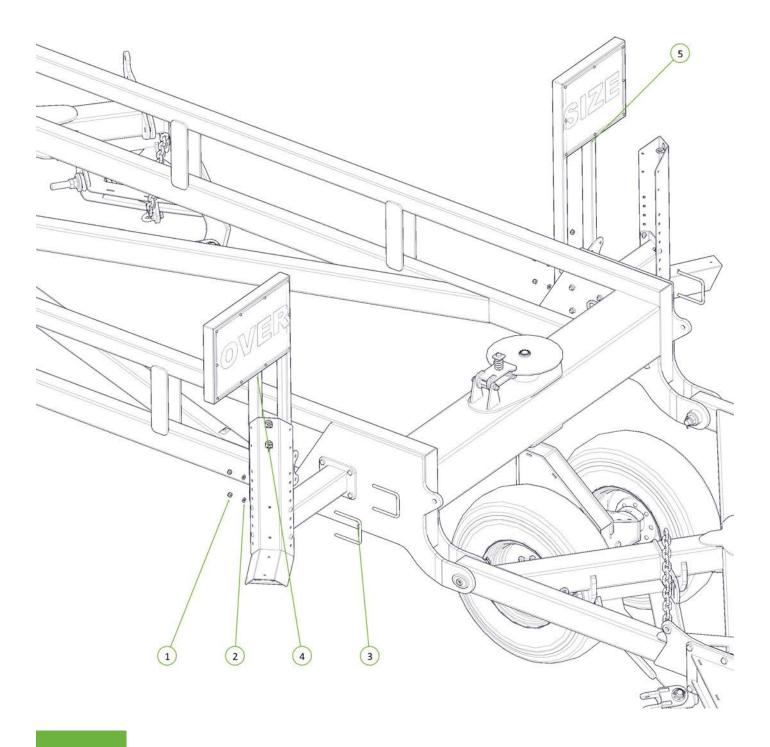




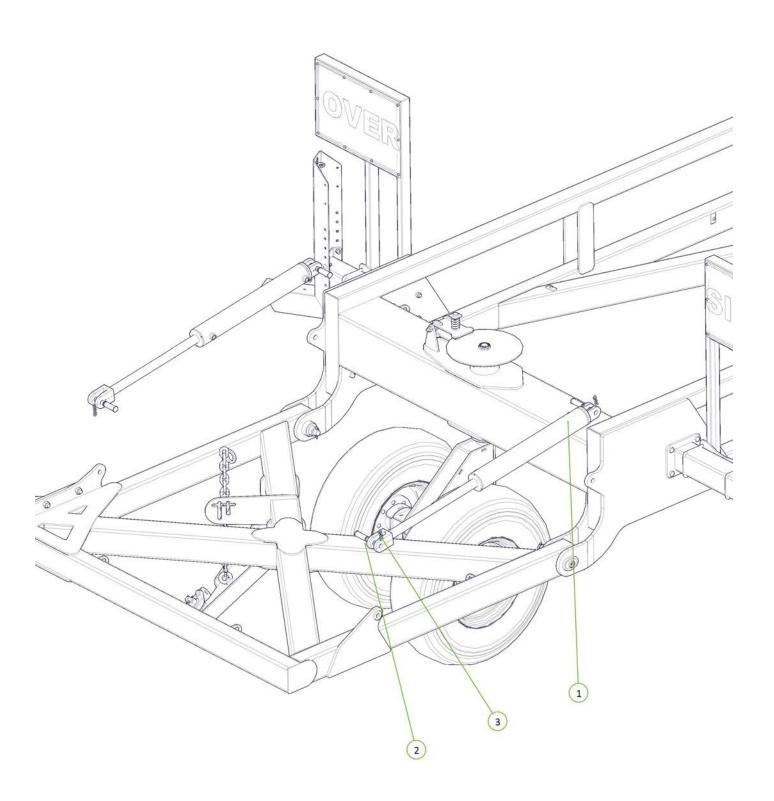
Item No.	Description	Qty	Number
1	Nyloc Nut M12	8	0221-NYL12
2	Washer Flat M12	8	0231-F12
3	U-Bolt M12 x 155 Deep x 127 Wide	4	0271-12155127
4	LH Oversize Sign Frame	1	0810-110
5	RH Oversize Sign Frame	1	0810-111

Signage may change according to local regulations

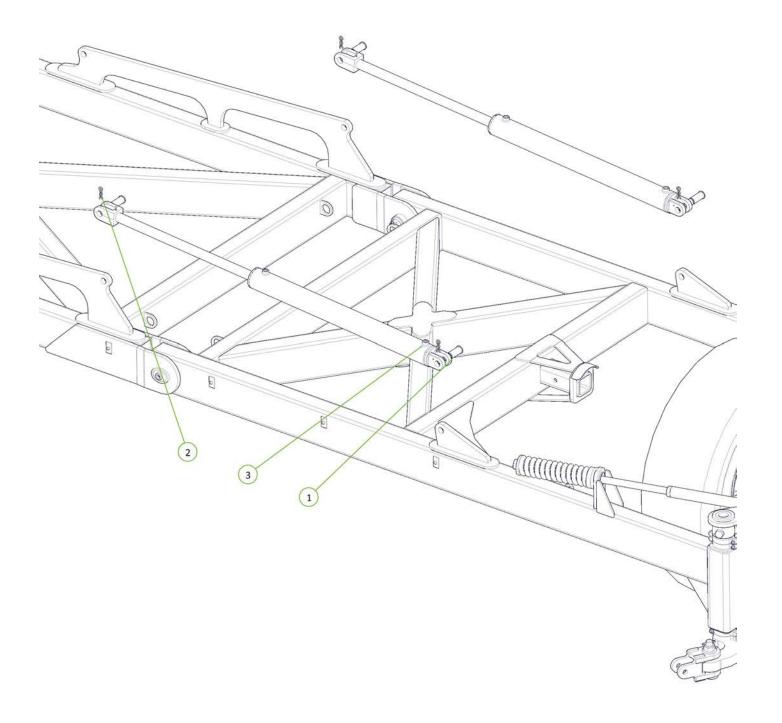




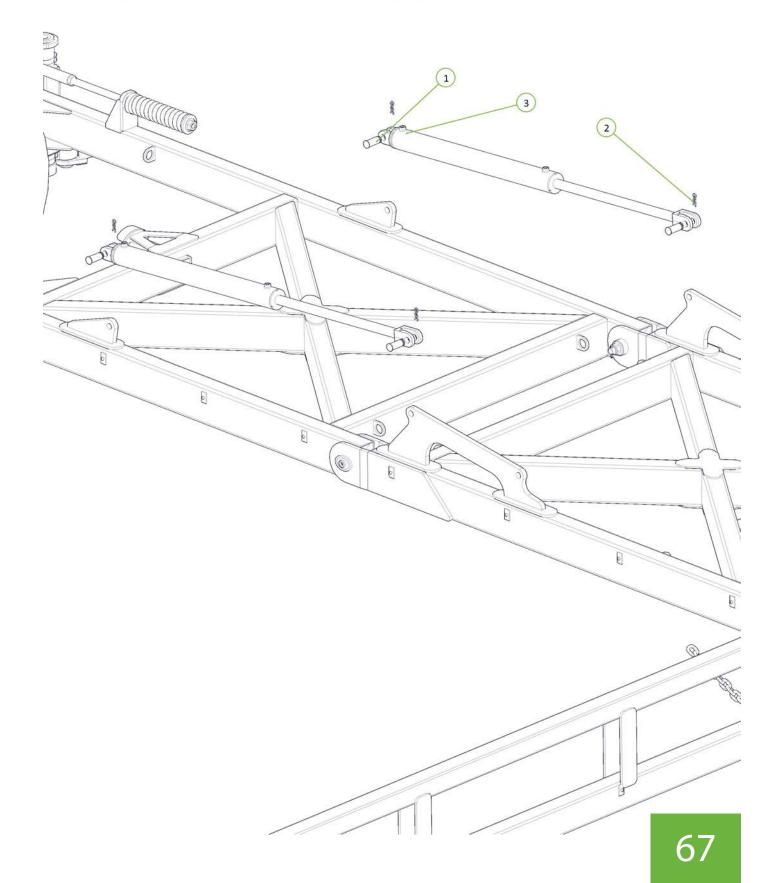
Item No.	Description	Qty	Number
1	3.5" Bore 24" Stroke 1.75" Rod Hydraulic Cylinder	2	0313-3524SP-B
2	Hydraulic Cylinder Pin 1" x 75mm	4	0313-NCP1X75
3	R Clip 3mm	4	0511-RCLIP3

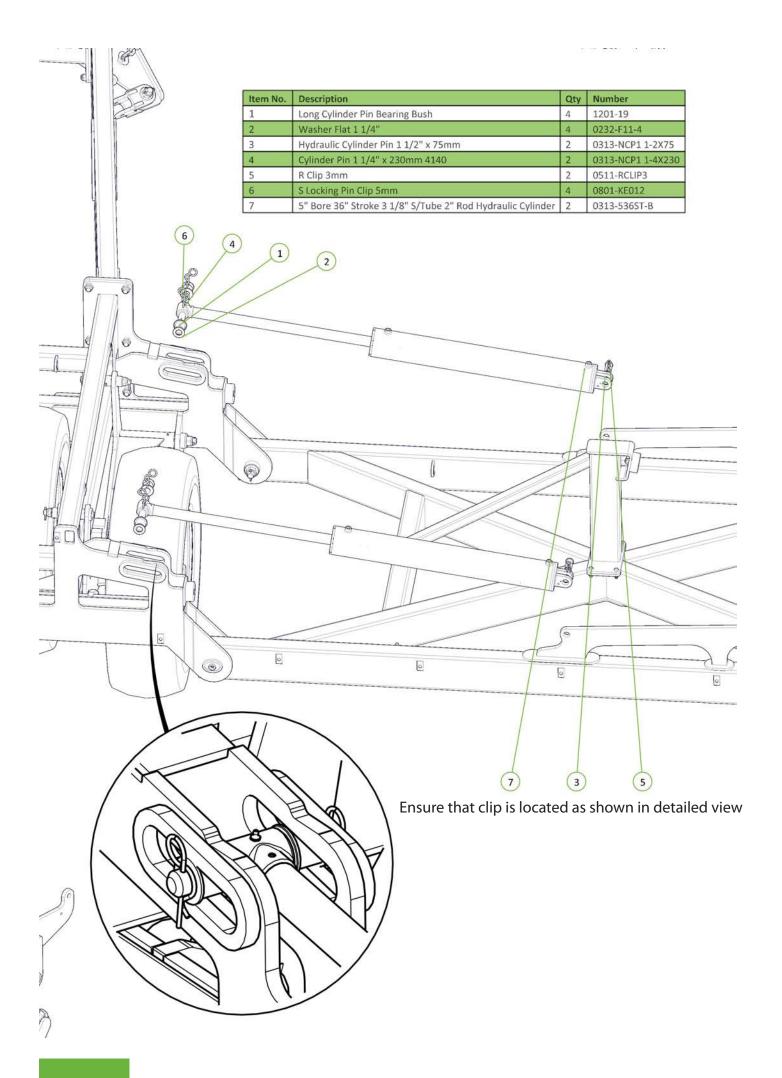


Item No.	Description	Qty	Number
1	Hydraulic Cylinder Pin 1 1/2" x 75mm	4	0313-NCP1 1-2X75
2	R Clip 3mm	4	0511-RCLIP3
3	3.5" Bore 32" Stroke 4" S/Tube 1.75" Rod Hydraulic Cylinder	2	0313-3532ST-B



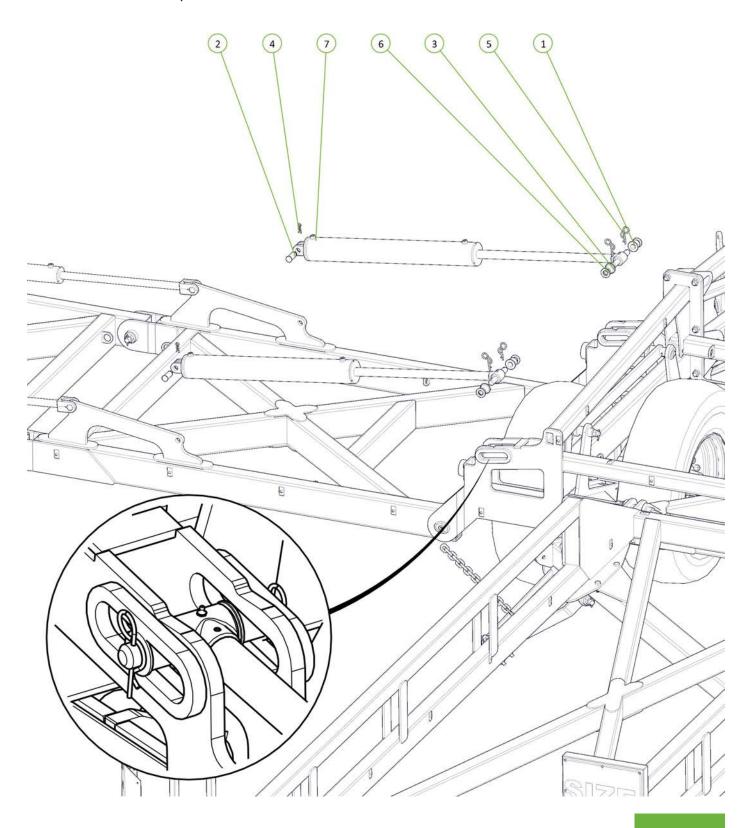
Item No.	Description	Qty	Number
1	Hydraulic Cylinder Pin 1 1/2" x 75mm	4	0313-NCP1 1-2X75
2	R Clip 3mm	4	0511-RCLIP3
3	3.5" Bore 32" Stroke 4" S/Tube 1.75" Rod Hydraulic Cylinder	2	0313-3532ST-B



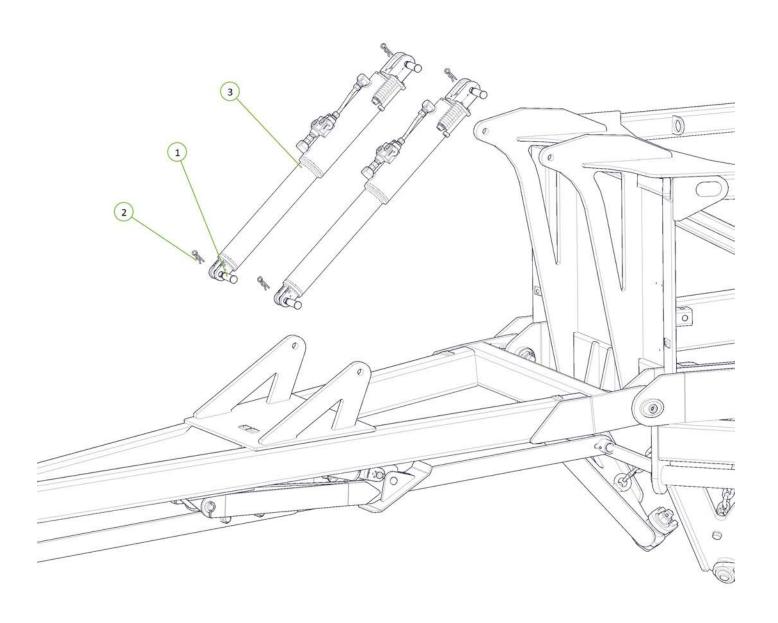


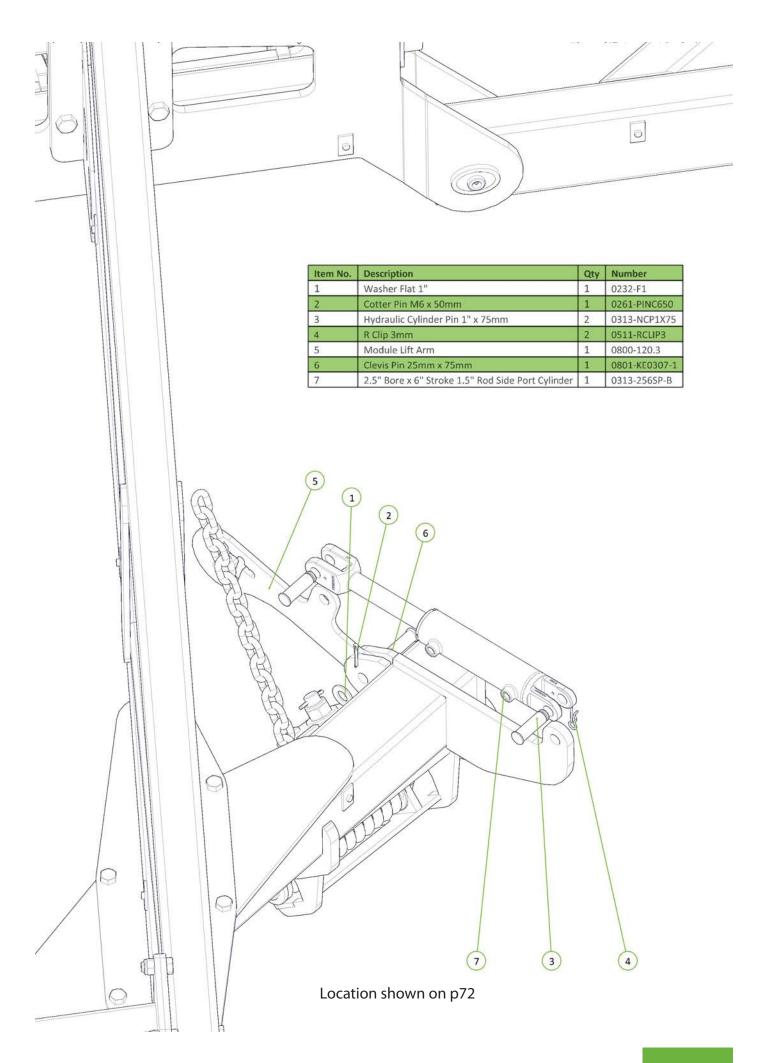
Item No.	Description	Qty	Number
1	Washer Flat 1 1/4"	4	0232-F11-4
2	Hydraulic Cylinder Pin 1 1/2" x 75mm	2	0313-NCP1 1-2X75
3	Cylinder Pin 1 1/4" x 230mm 4140	2	0313-NCP1 1-4X230
4	R Clip 3mm	2	0511-RCLIP3
5	S Locking Pin Clip 5mm	4	0801-KE012
6	Long Cylinder Pin Bearing Bush	4	1201-19
7	5" Bore 36" Stroke 3 1/8" S/Tube 2" Rod Hydraulic Cylinder	2	0313-536ST-B

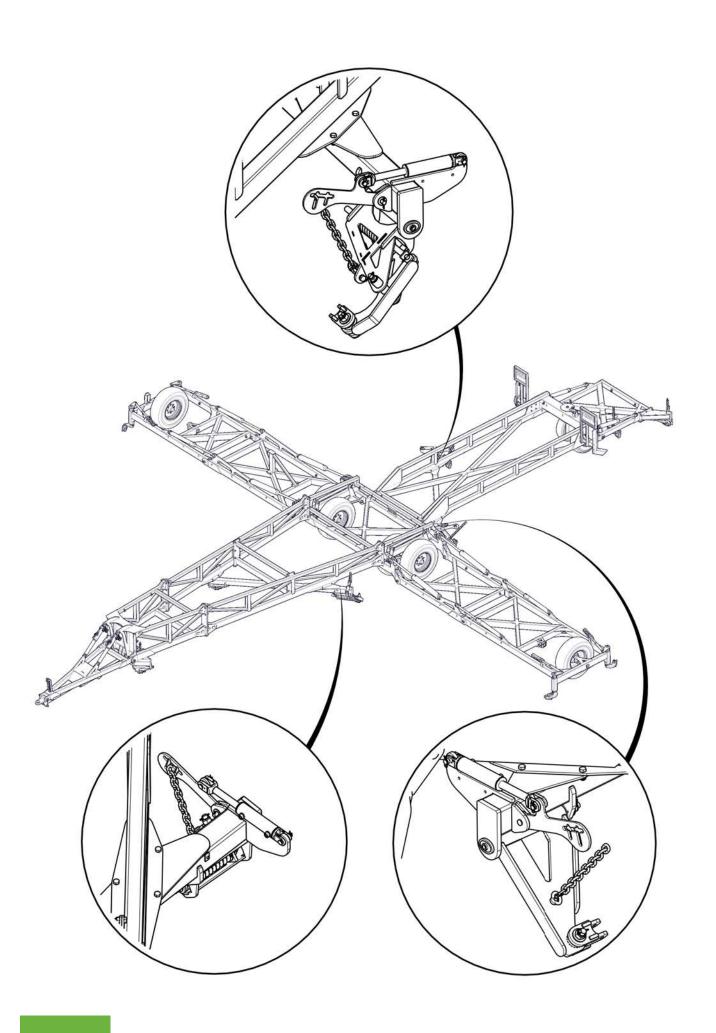
Ensure that clip is located as shown in detailed view



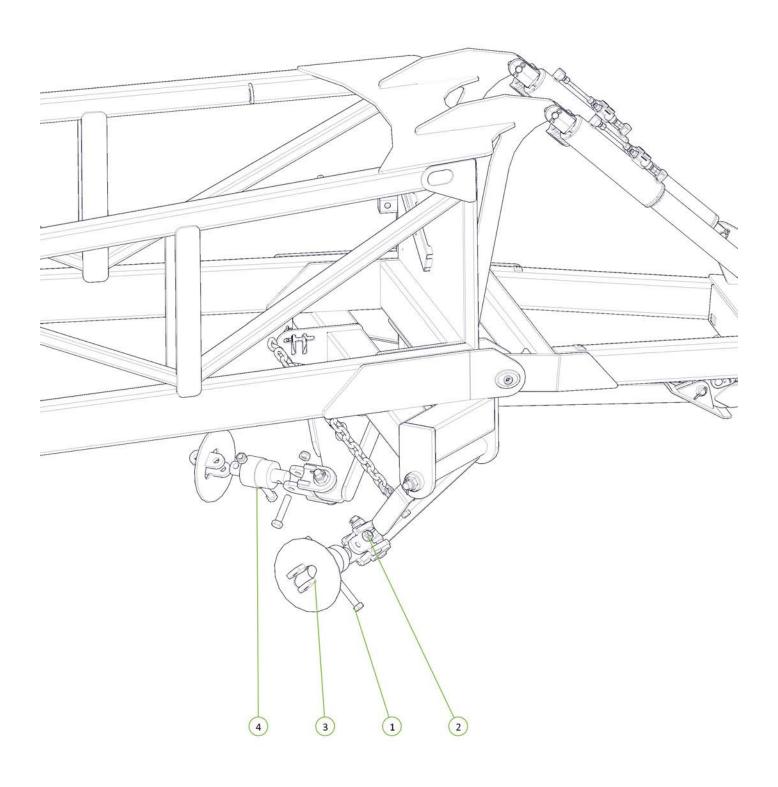
Item No.	Description	Qty	Number
1	Hydraulic Cylinder Pin 1" x 75mm	4	0313-NCP1X75
2	R Clip 3mm	4	0511-RCLIP3
3	4" Bore 12" Stroke 1.75" Rod Extended Hydraulic Cylinder	2	0313-412EXT-B

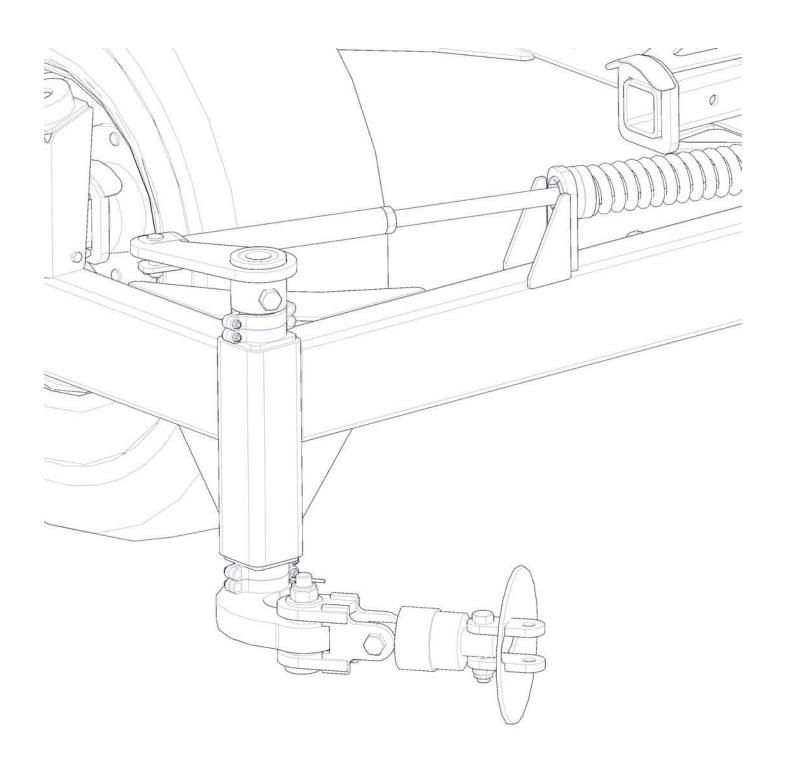


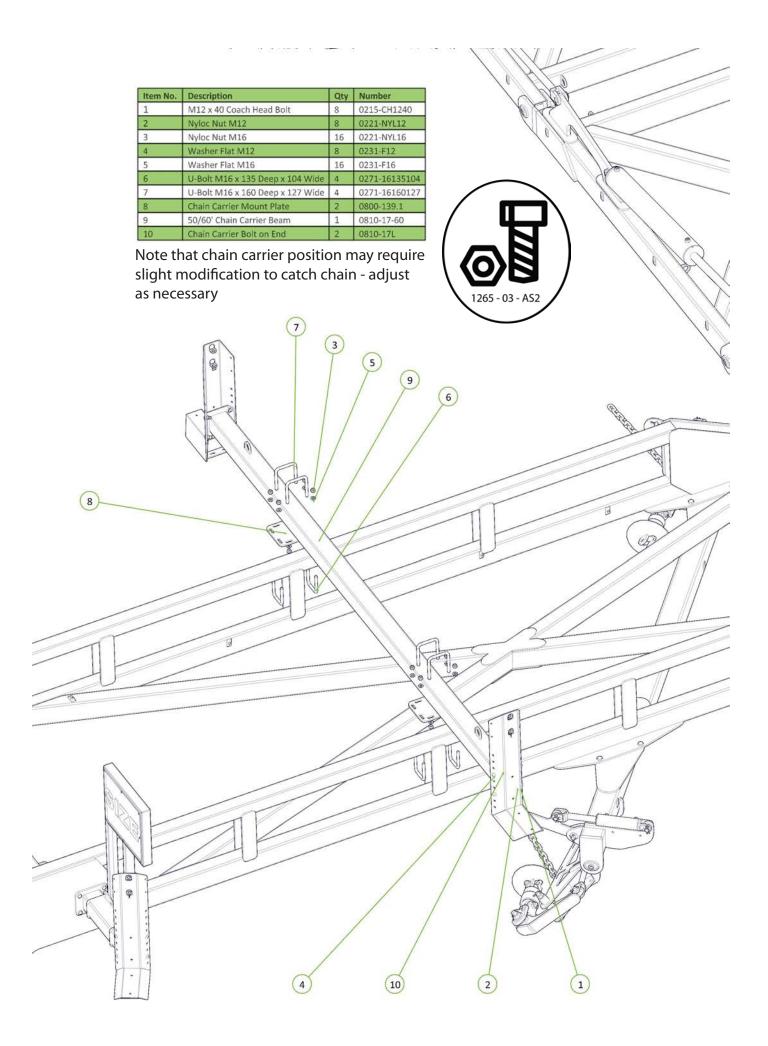




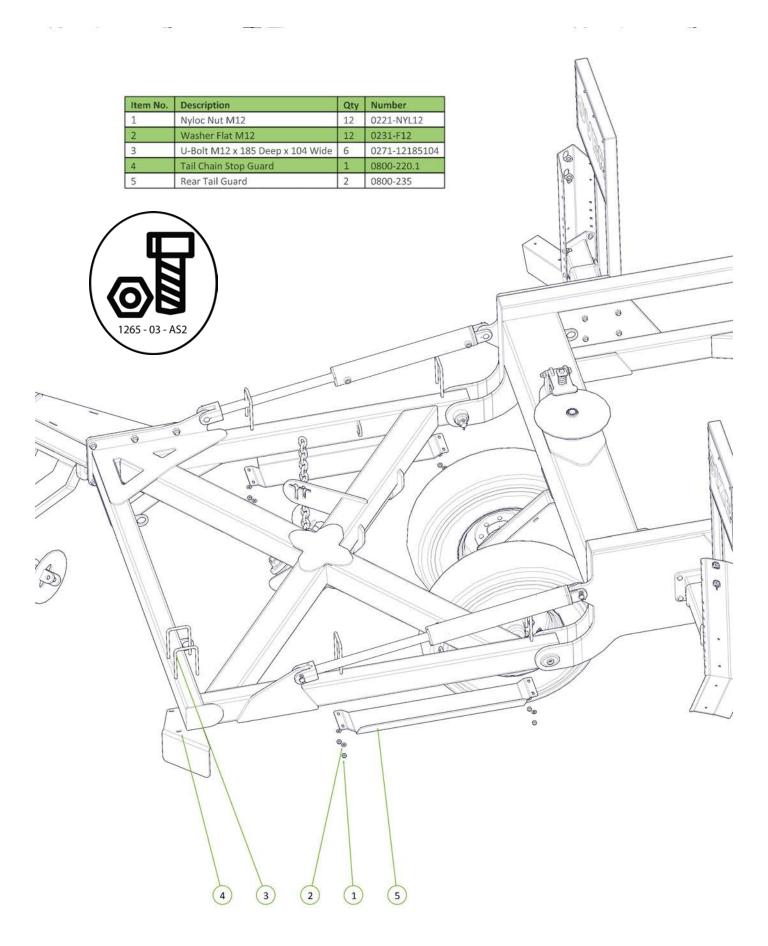
Item No.	Description	Qty	Number	
1	M24 x 120 grade 10.9 zp Short Thread Bolt	4	0211-24120	
2	Nyloc Nut M24	4	0221-NYL24	
3	Disc Chain Tie Plate Link 24mm	2	0802-DCTP-24	
4	24mm Bolt Swivel Unit	2	0802-PCHB553	

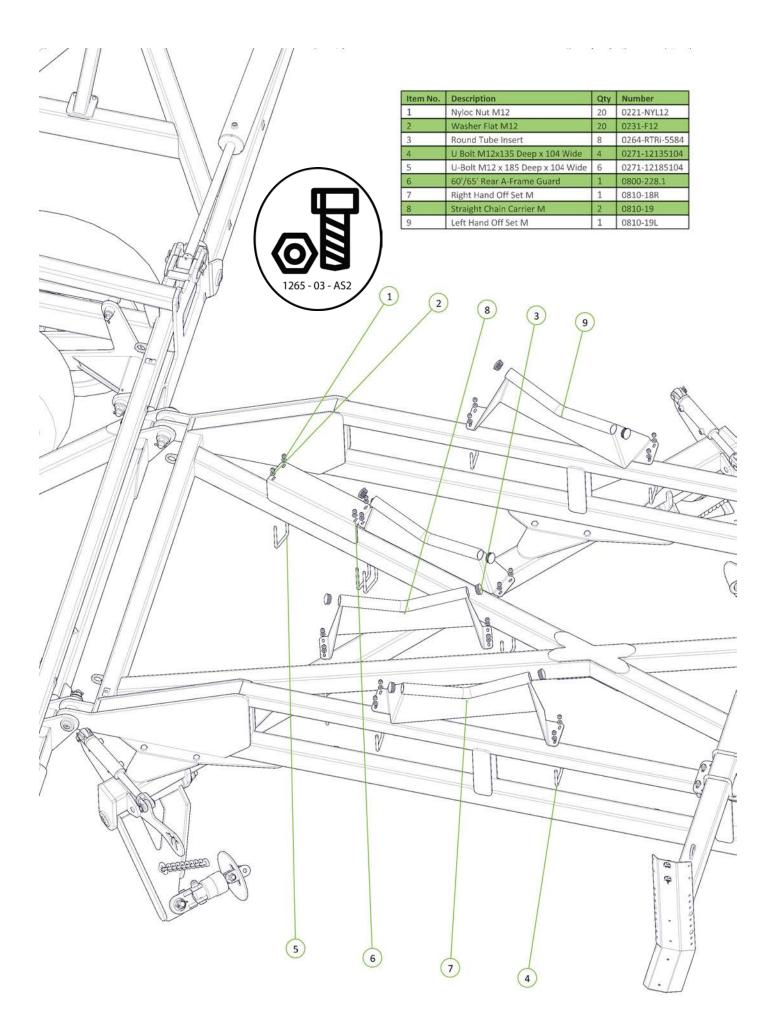






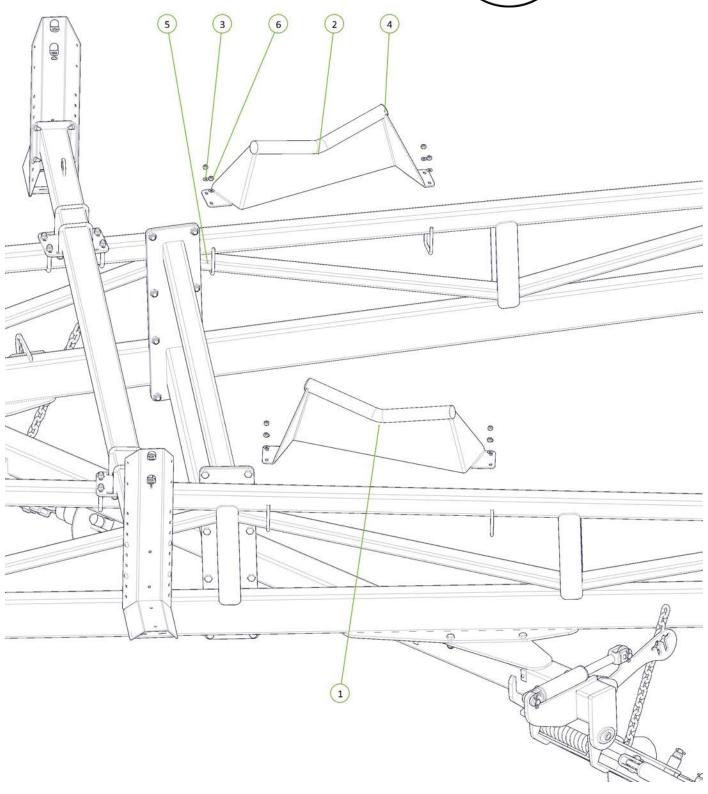
Item No.		Qty	Number
1	M12 x 40 Coach Head Bolt	8	0215-CH1240
2	Nyloc Nut M16	16	0221-NYL16
3	Nyloc Nut M12	8	0221-NYL12
4	Washer Flat M16	16	0231-F16
5	Washer Flat M12	8	0231-F12
6	U-Bolt M16 x 135 Deep x 104 Wide		0271-16135104
7	U-Bolt M16 x 160 Deep x 127 Wide		0271-16160127
8	Chain Carrier Mount Plate	2	0800-139.1
9	50/60' Chain Carrier Beam Chain Carrier Bolt on End	2	0810-17-60 0810-17L
200	- Stant Santal Dole On Ella		3010 1/6
10)			
	5		
>			
	(1)		
/	(3)		
	/ /)	
/	/ /	1	
/ /			8
/		1	(6)
/		/	1
1			
	0 0 /		
0			
B) =			/
3		/	
		1	
			10
	1	_	
3/6	0 0	<	< TI
			1
		_	1
			1
~			
No.			
		_	
0			
, 1			
		\	
1			
		/	
		1	
	//		
	7//		7//
	////	/	
		//	1/1/1
		11	
81		1	
/			
///			// /
/_			4

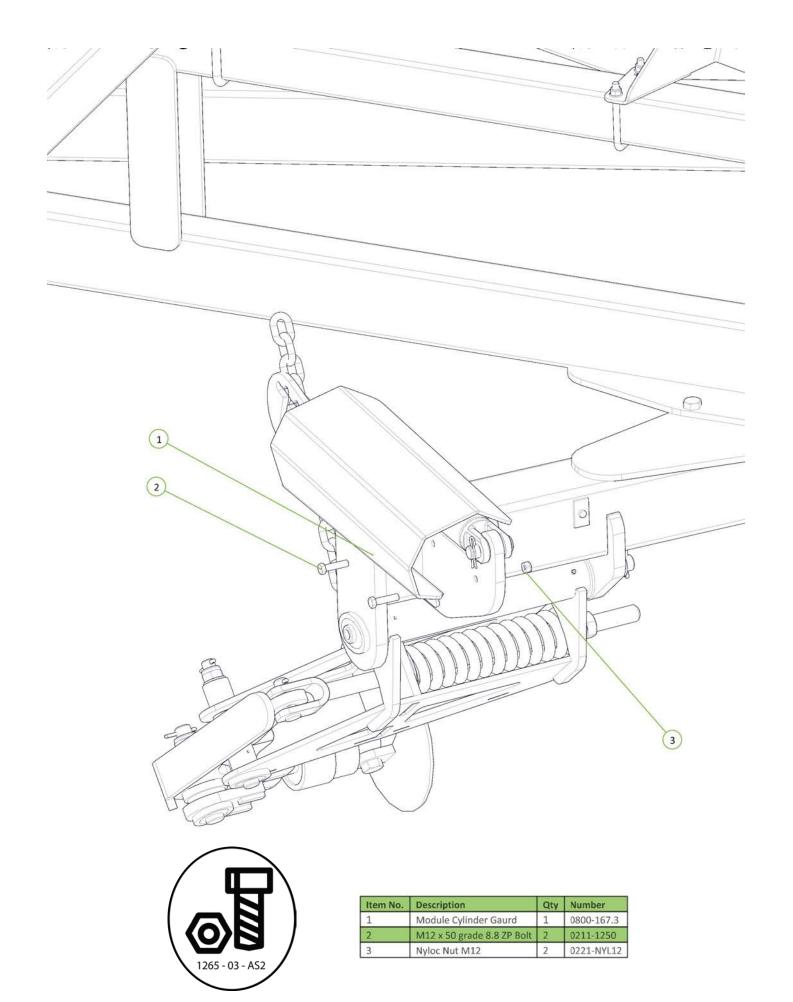




Item No.	Description	Qty	Number
1	Left Hand Off Set M	1	0810-19L
2	Right Hand Off Set M	1	0810-18R
3	Washer Flat M12	8	0231-F12
4	Round Tube Insert	4	0264-RTRI-5584
5	U Bolt M12x 135 Deep x 104 Wide	4	0271-12135104
6	Nyloc Nut M12	8	0221-NYL12

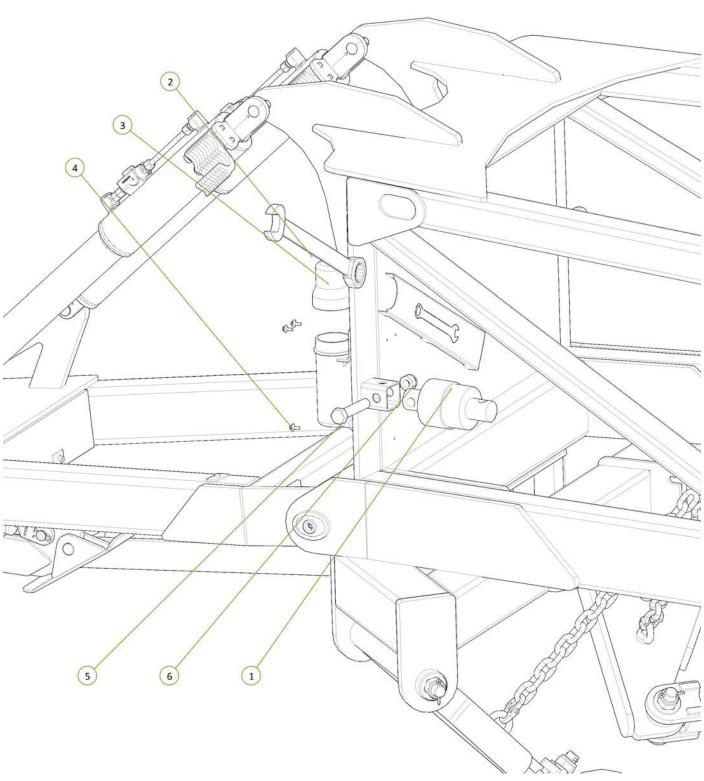


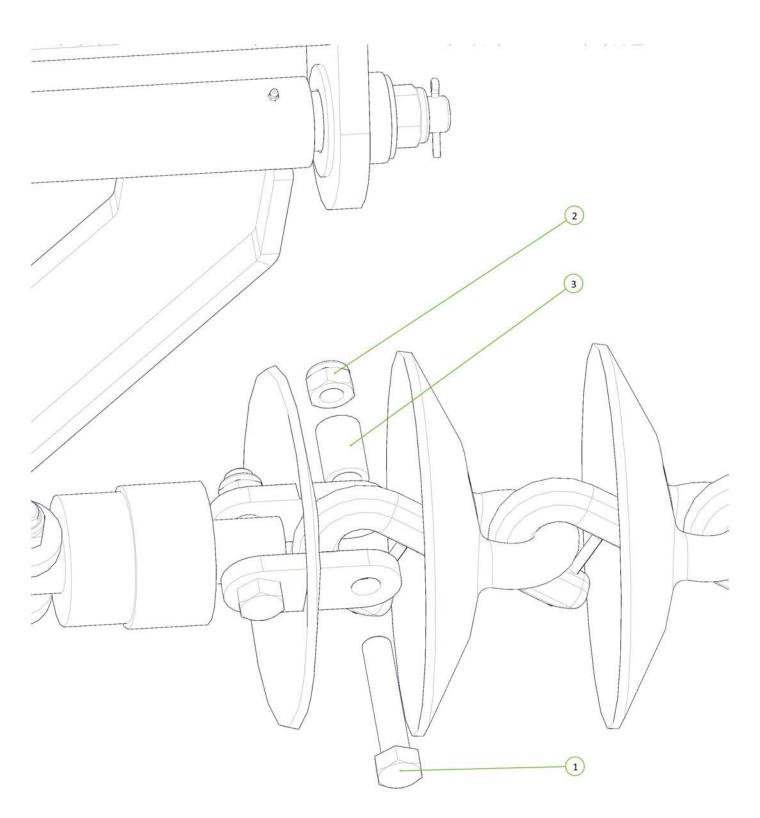




Item No.	Description	Qty	Number
1	24mm Bolt Swivel Unit	1	0802-PCHB553
2	Gear Wrench 1 3/4"	1	0802-GW1 3-4
3	Manual Canister	2	0801-OMC-1
4	M6x20 Trilobe Self Tapping Screw	3	0211-M620MZPHTF
5	M24 x 120 grade 10.9 zp Short Thread Bolt	1	0211-24120ST
6	Nyloc Nut M24	1	0221-NYL24

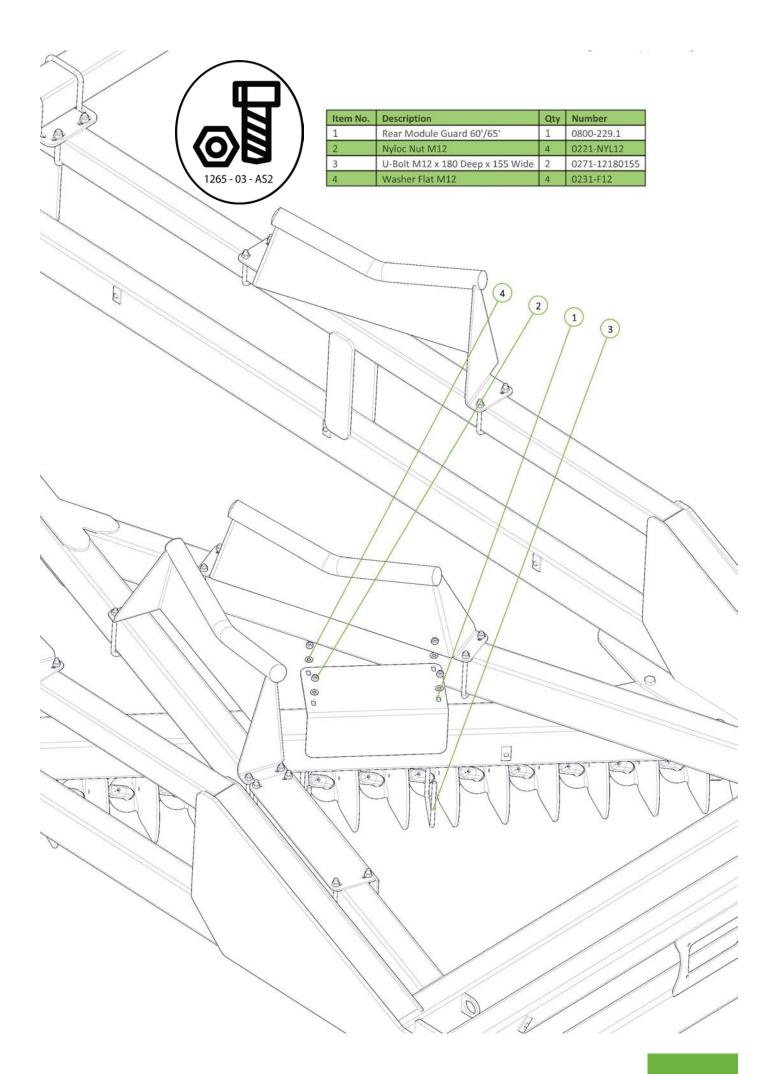


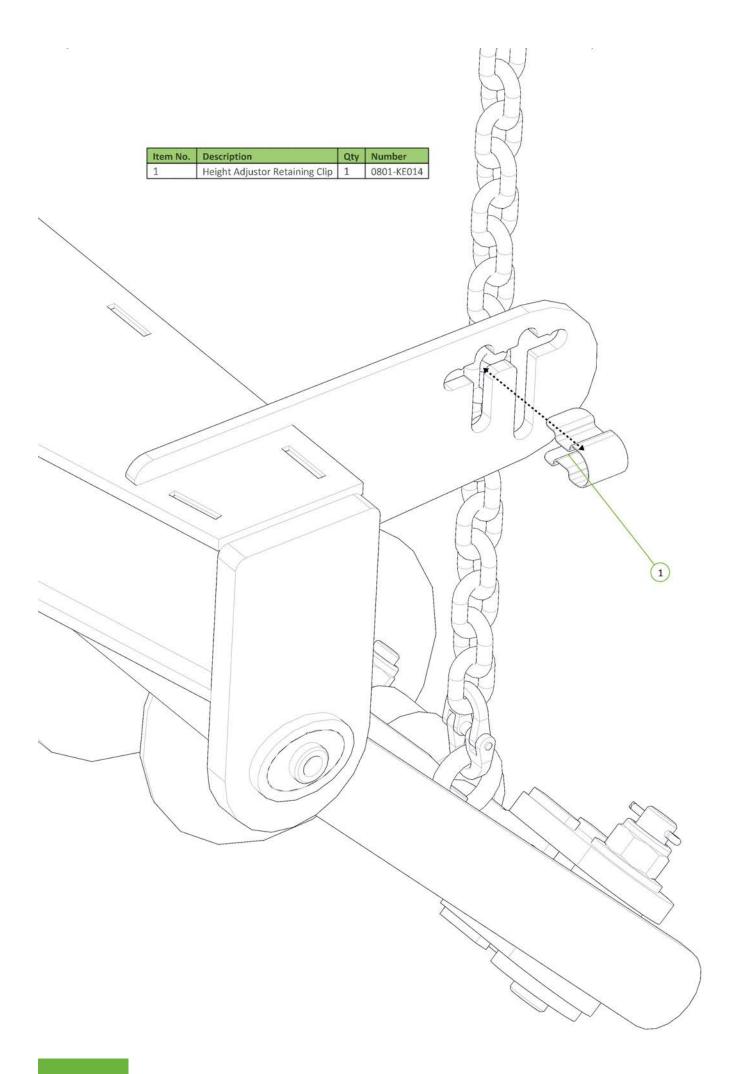




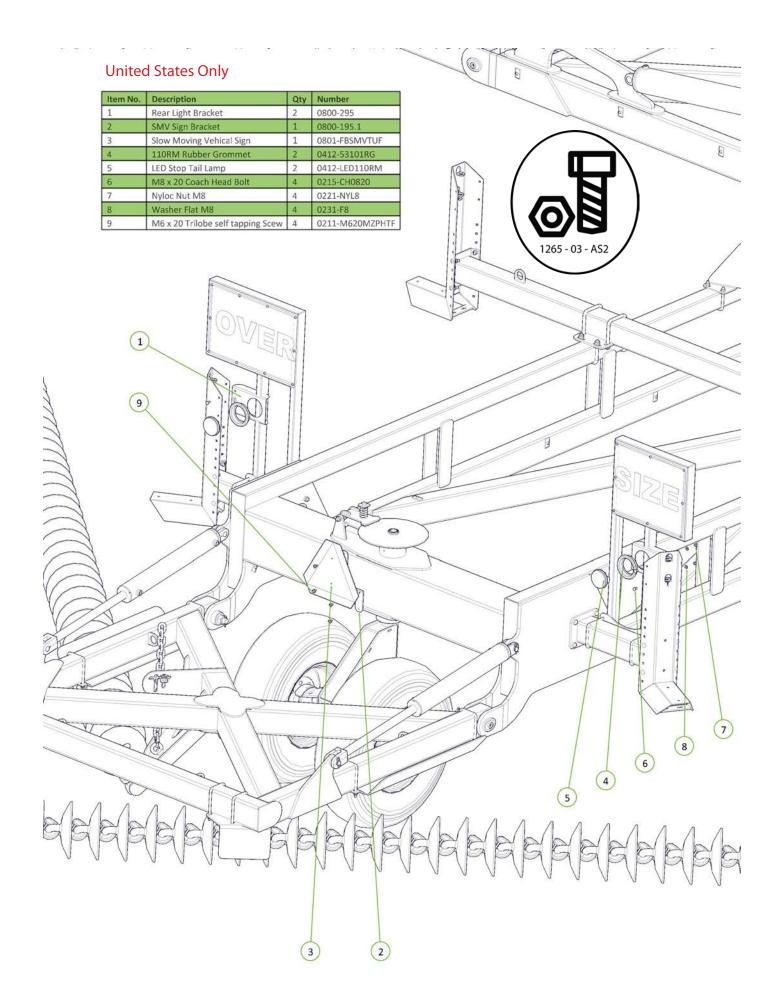
Item No.	Description	Qty	Number	
1	M24 x 120 grade 10.9 zp Short Thread Bolt	1	0211-24120ST	
2	Nyloc Nut M24	1	0221-NYL24	
3	Tie Plate Bush	1	0801-PCDCS55	

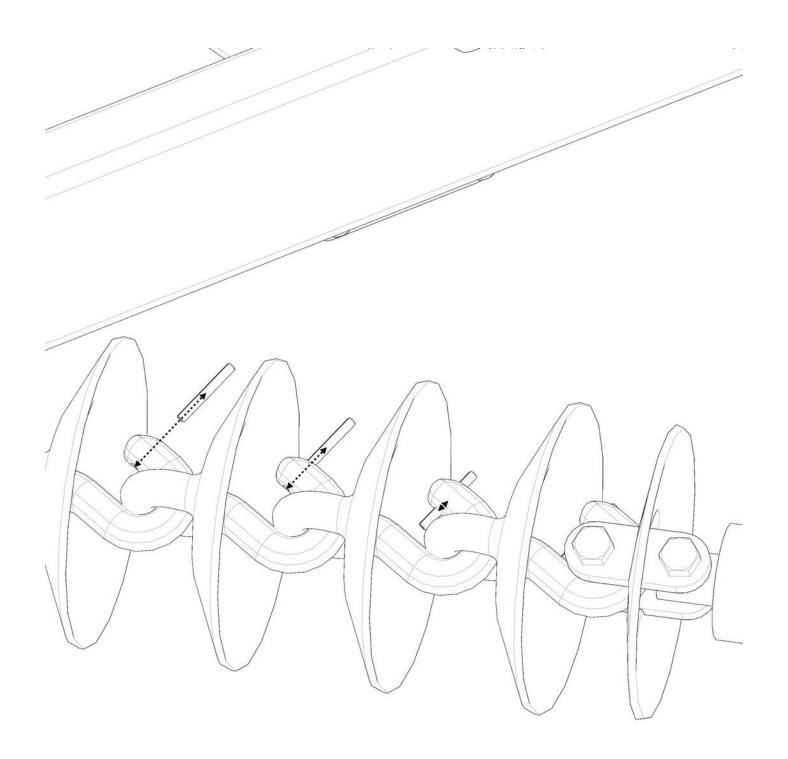


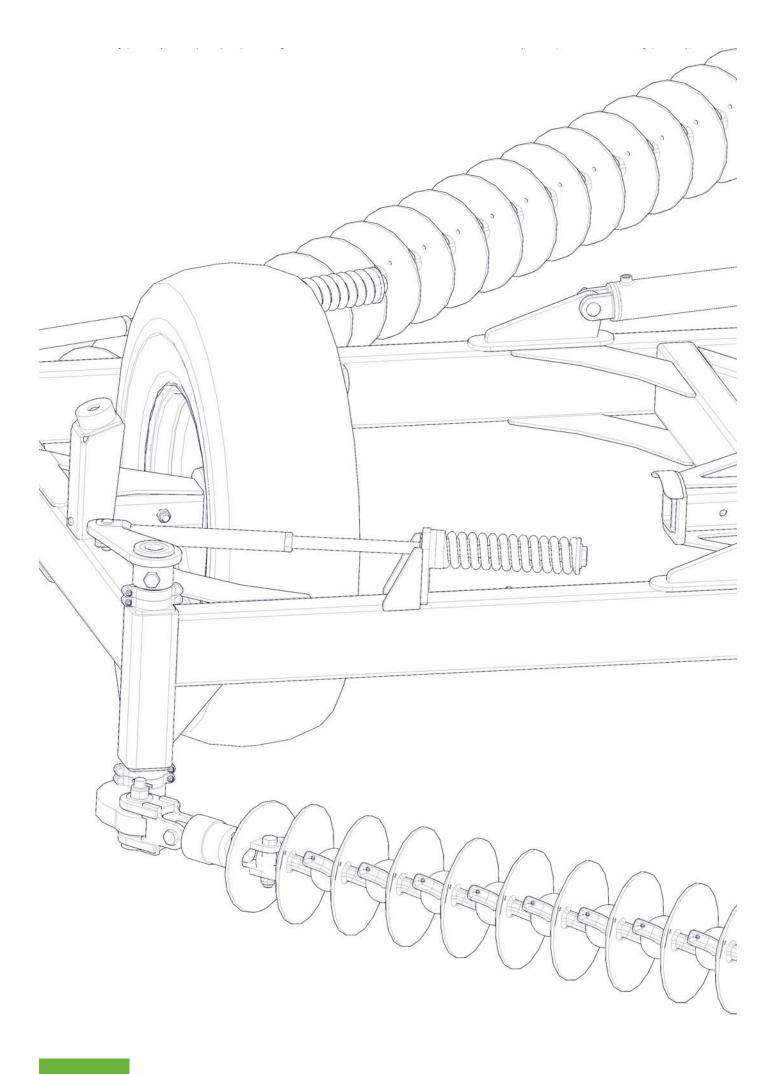


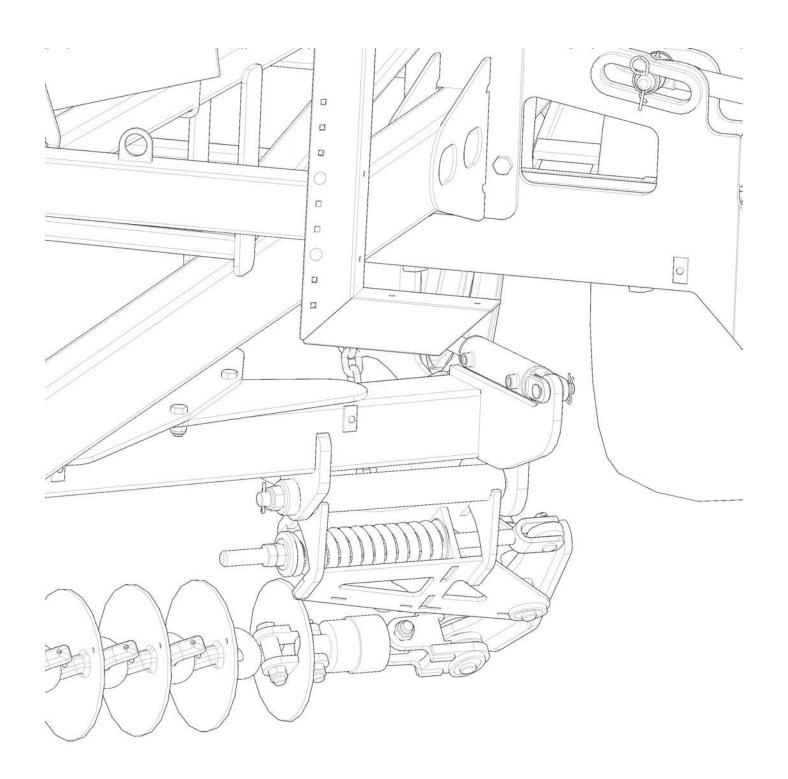


Tem No. Description Oty Number 1 Safety Chain Assembly 1 0810-16					<u> </u>	200
1 Safety Chain Assembly 1 0810-16	Item No.	Description	Oty Number	/ T	J /	45
					3	
				1202 - 02 - 4	AS2	55
				1202 02 /		155
						5
					1	
				20.0		
				(T)		
				4/		//
					XY	
						9/10/
				1	1	
					Sal	COS (R)
						(2)
		1				R
						AY
						AN .
						DY
						189
						LET TO THE STATE OF THE STATE O
					THE STATE OF THE S	7
				76	22	
			THE STATE OF THE S			
			22			
	WAY.	25-1				
	5					









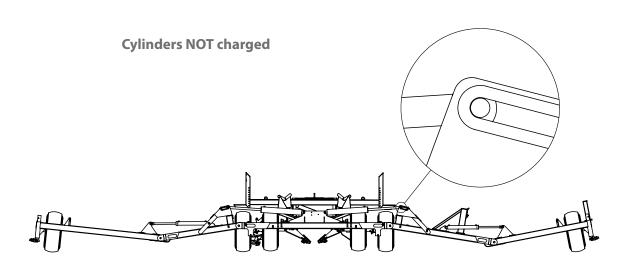
Section 3Hydraulic Setup

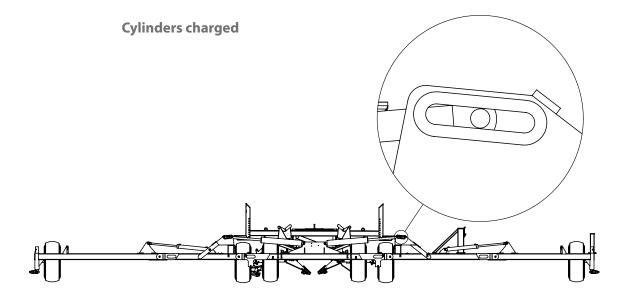


Before folding the machine for the first time, ensure all hydraulic cylinders are charged with oil.

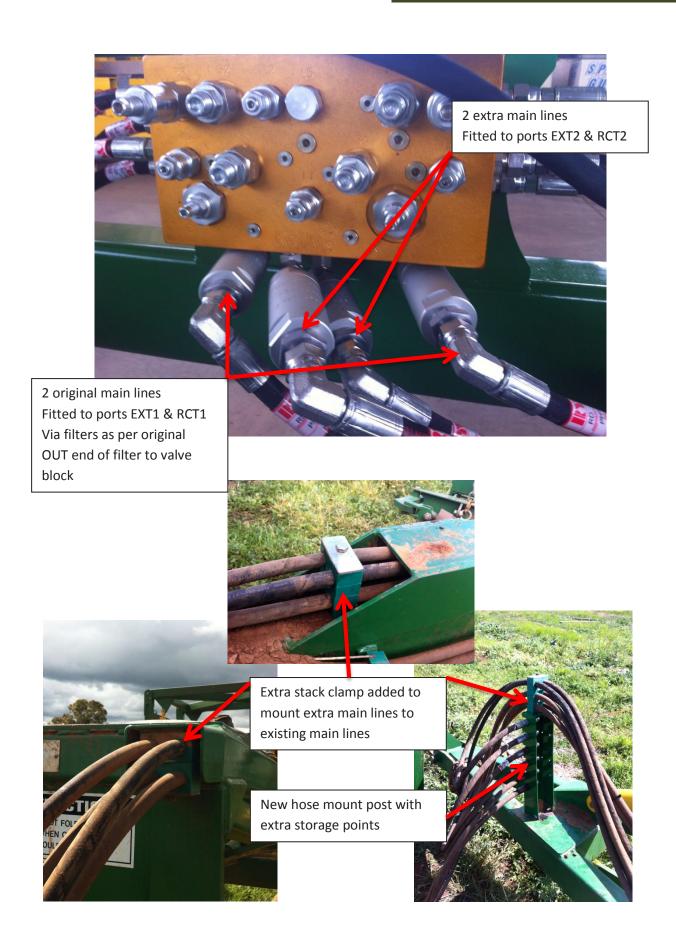
To do this, run the hydraulics through the unfold sequence until the outer wings are straight and the center cylinders are centered in the slots. (It may take a few minutes for the cylinders to charge completely).

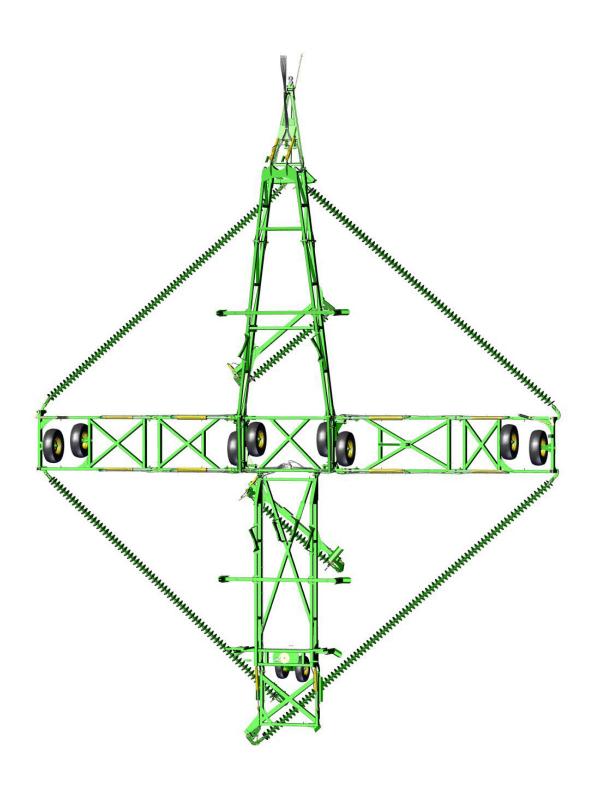
Failure to do this could result in severe personal injury and/or damage to the machine.

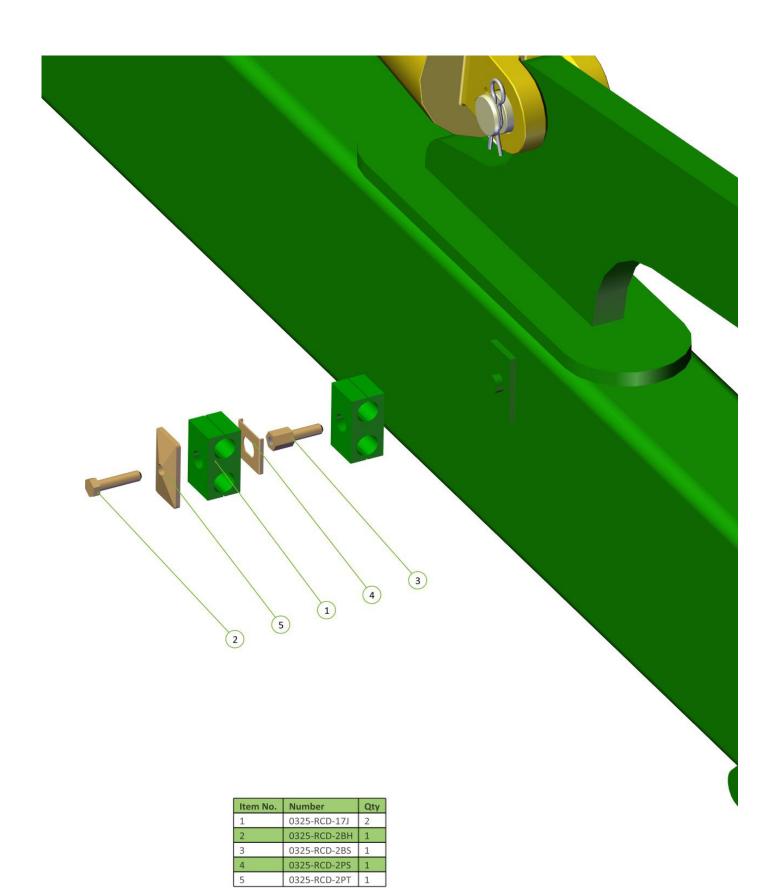


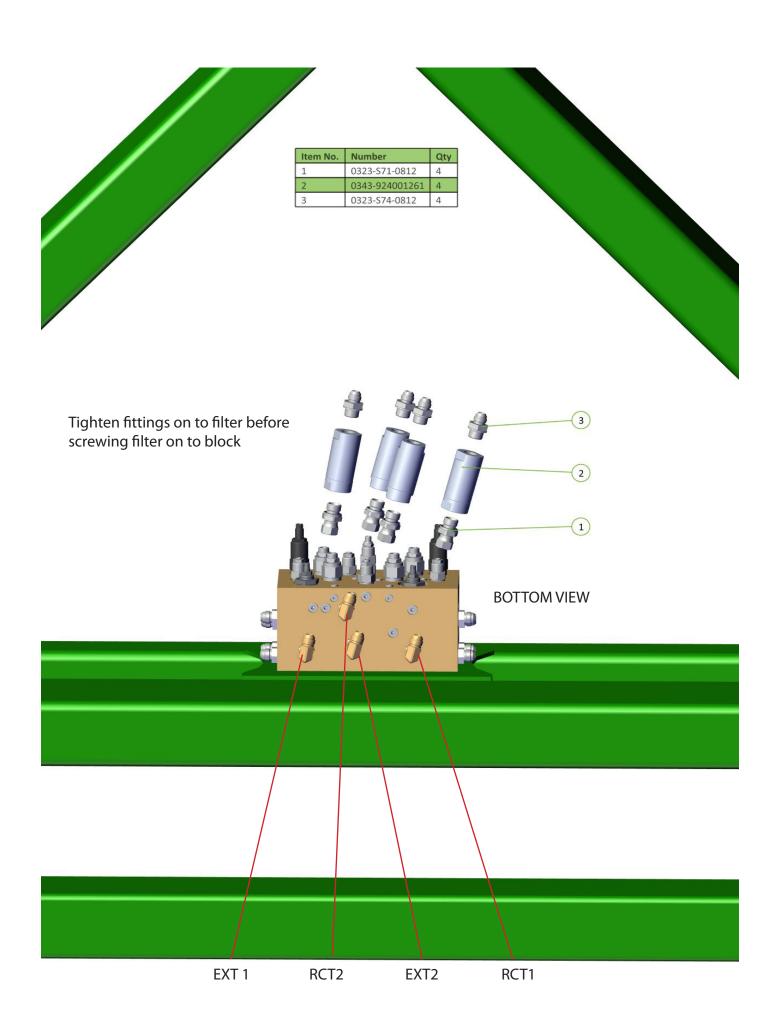


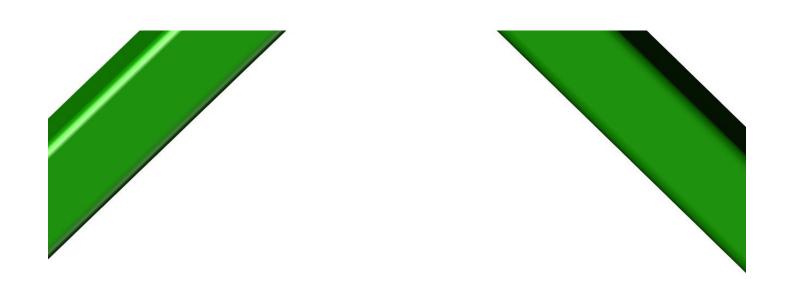
Hydraulic Valve Block

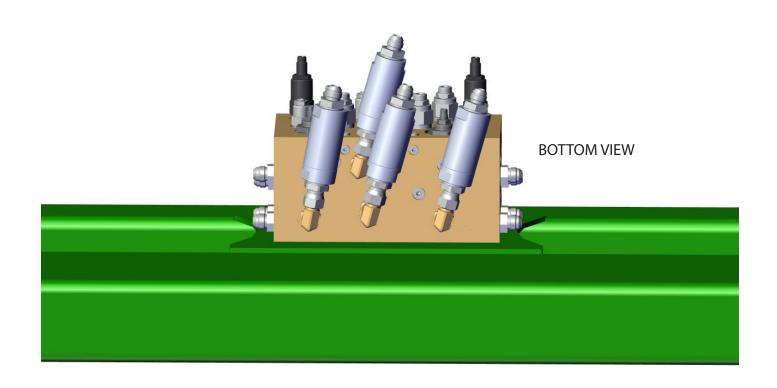


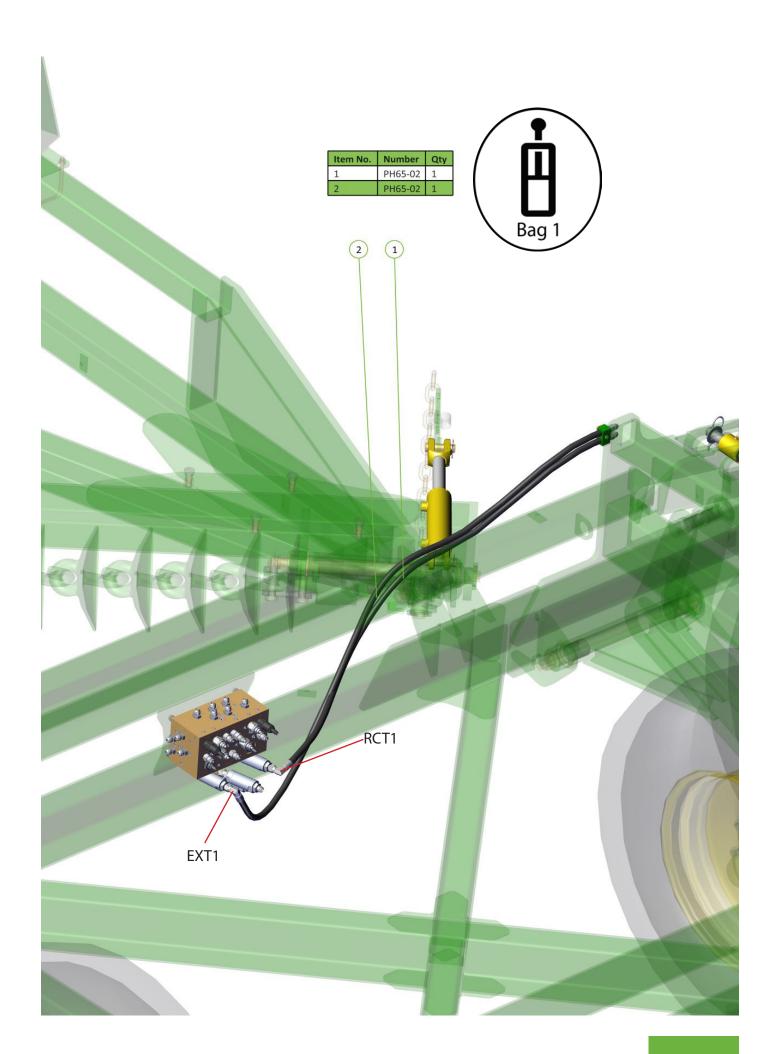


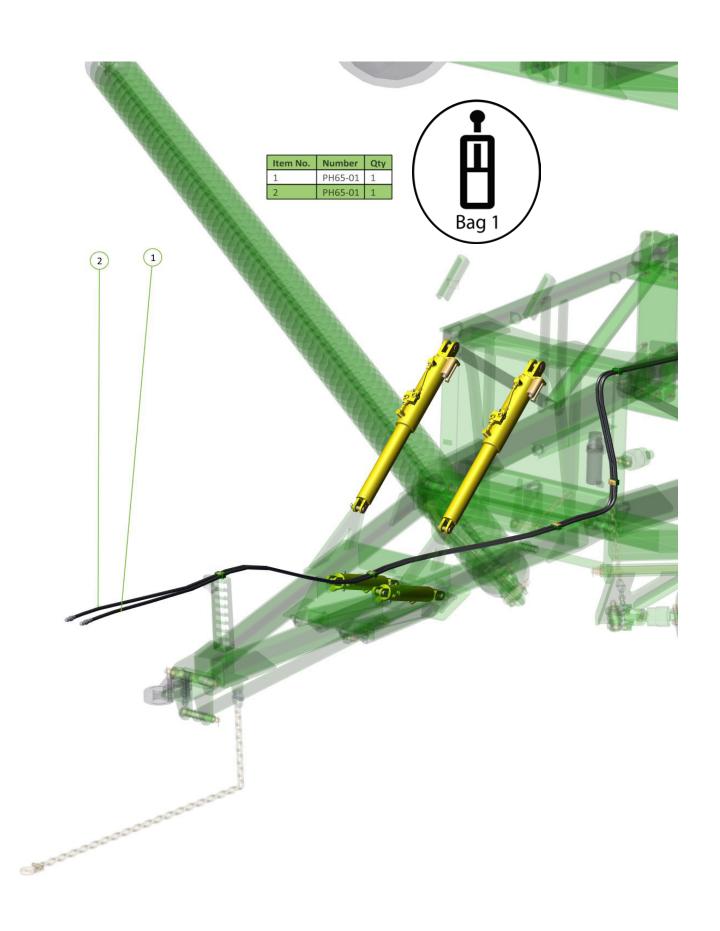


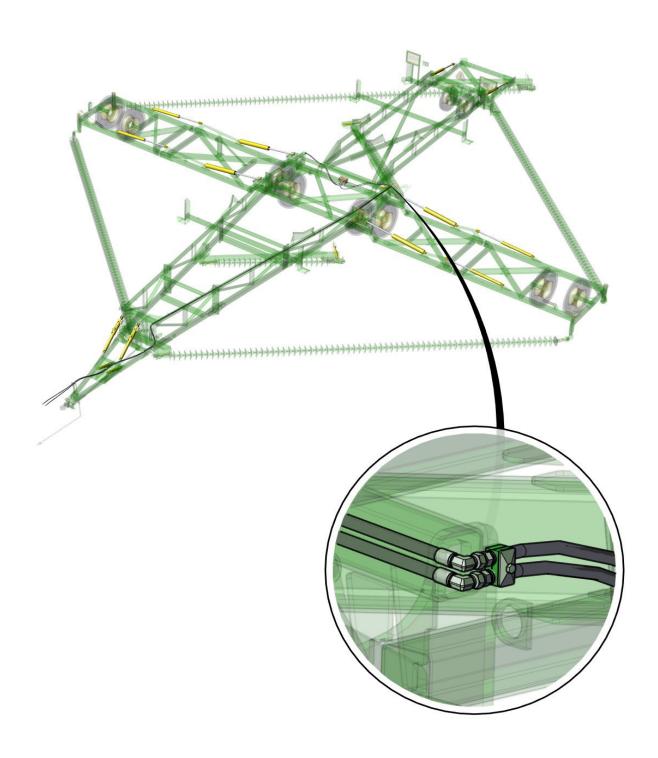


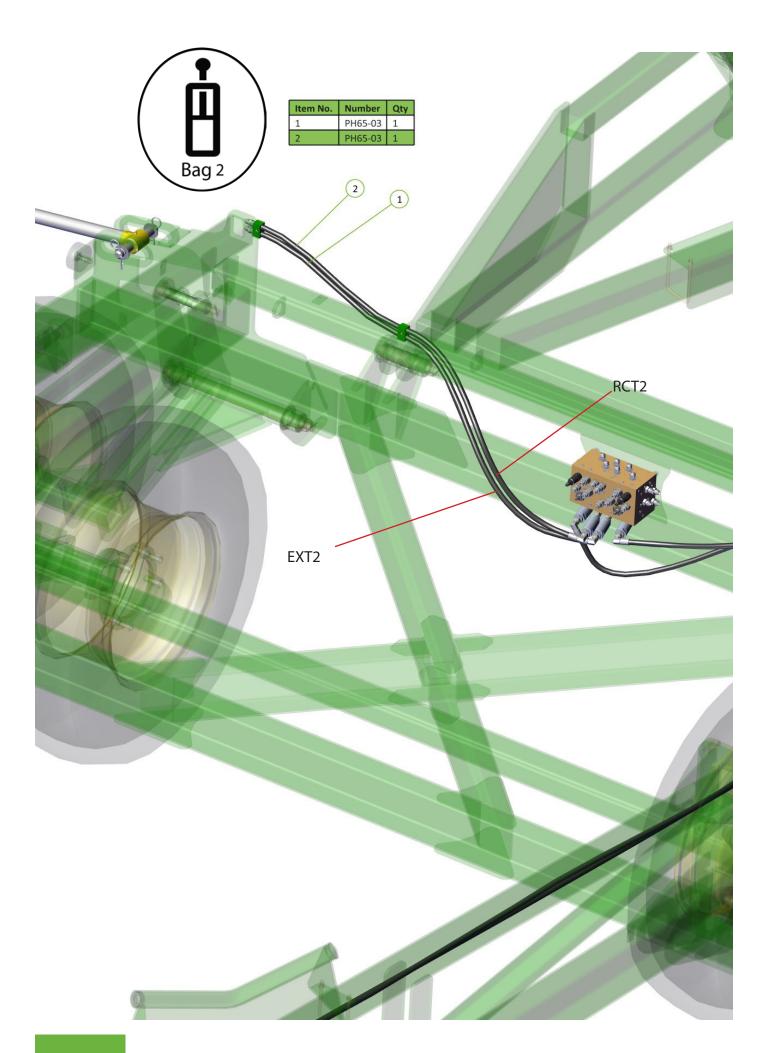


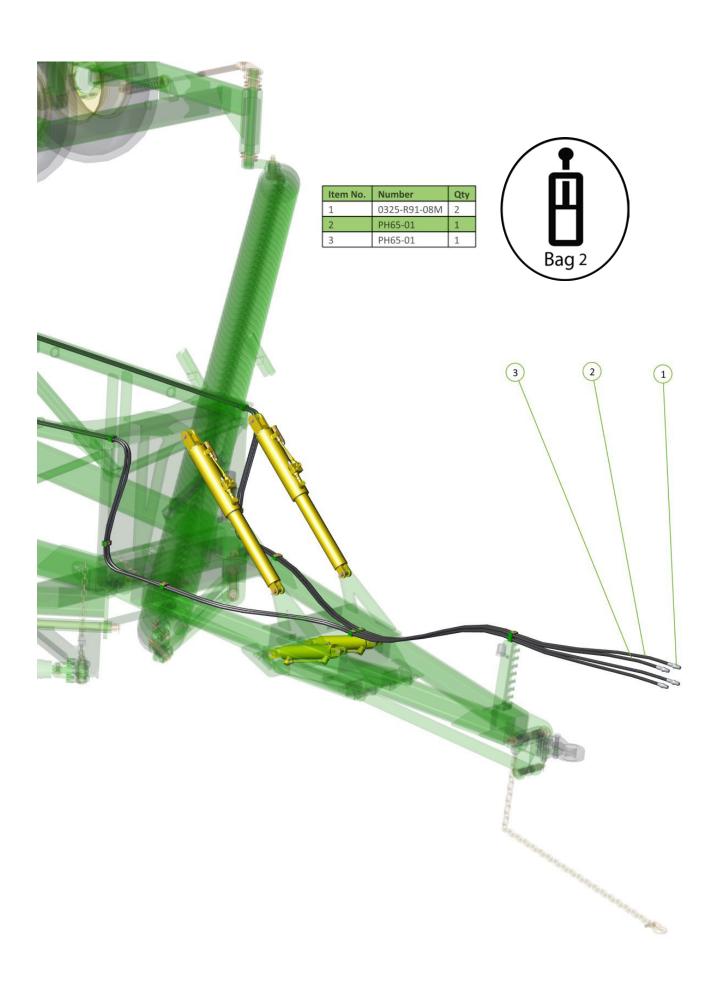


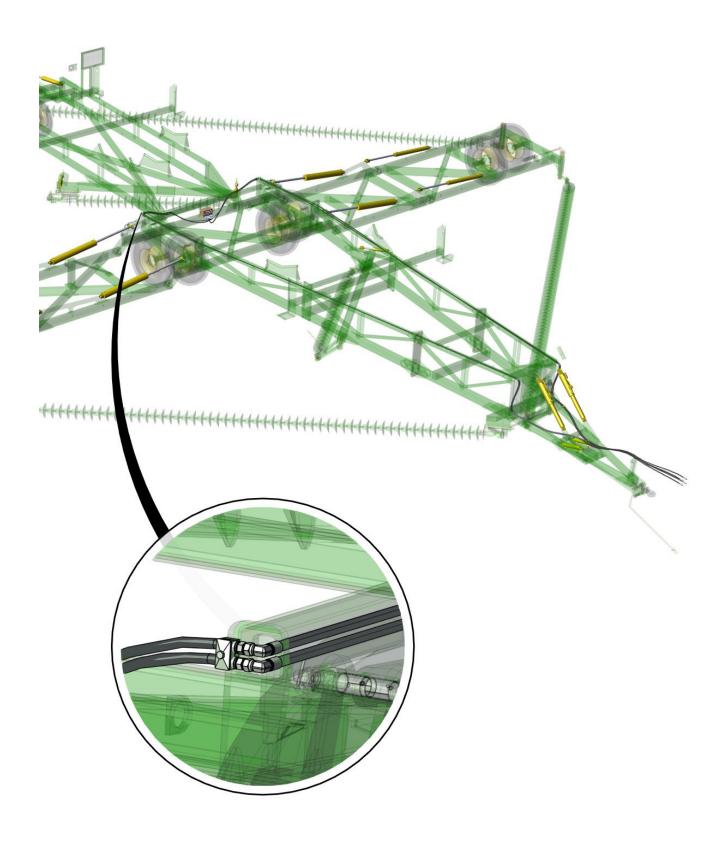


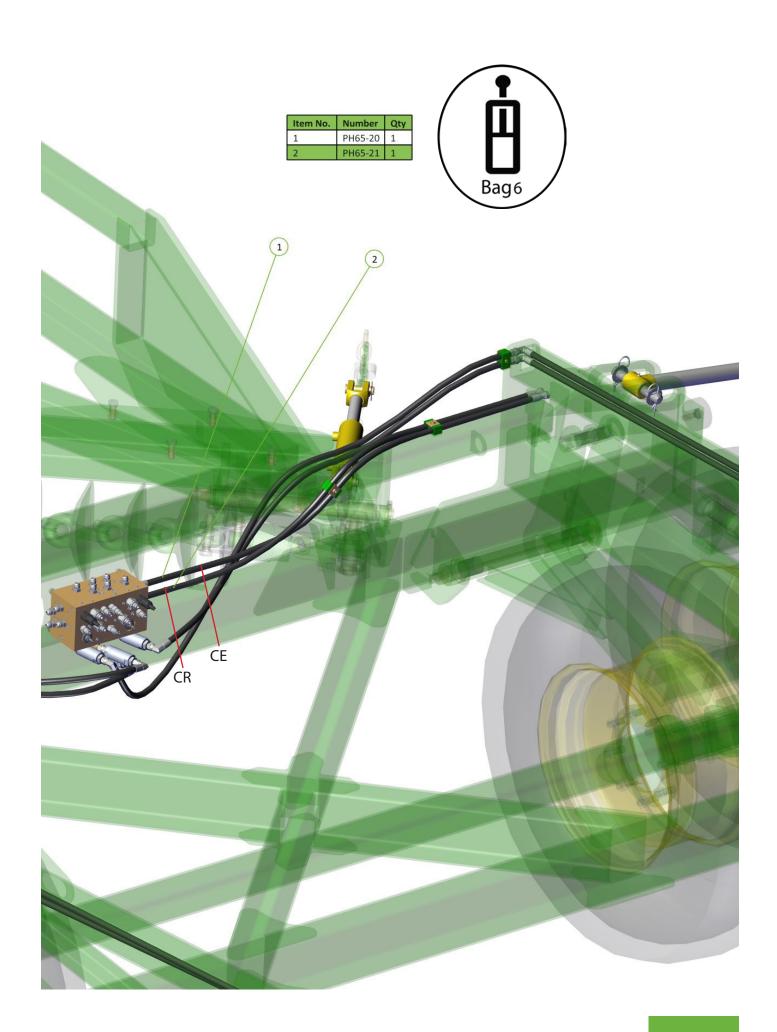


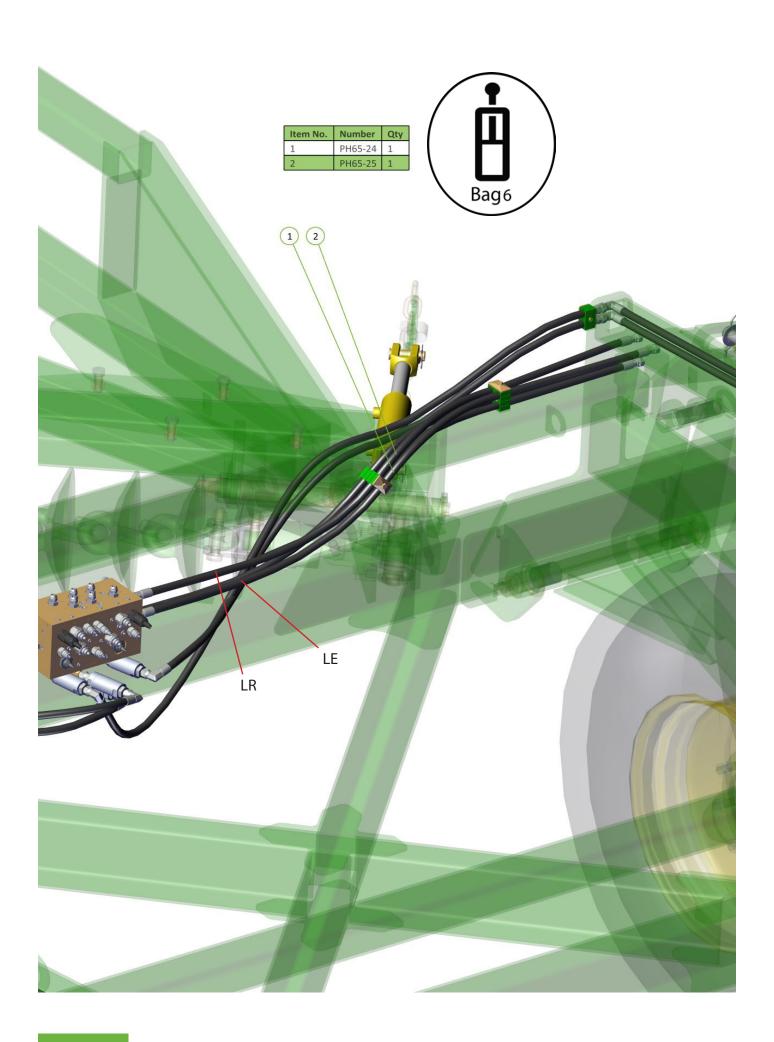


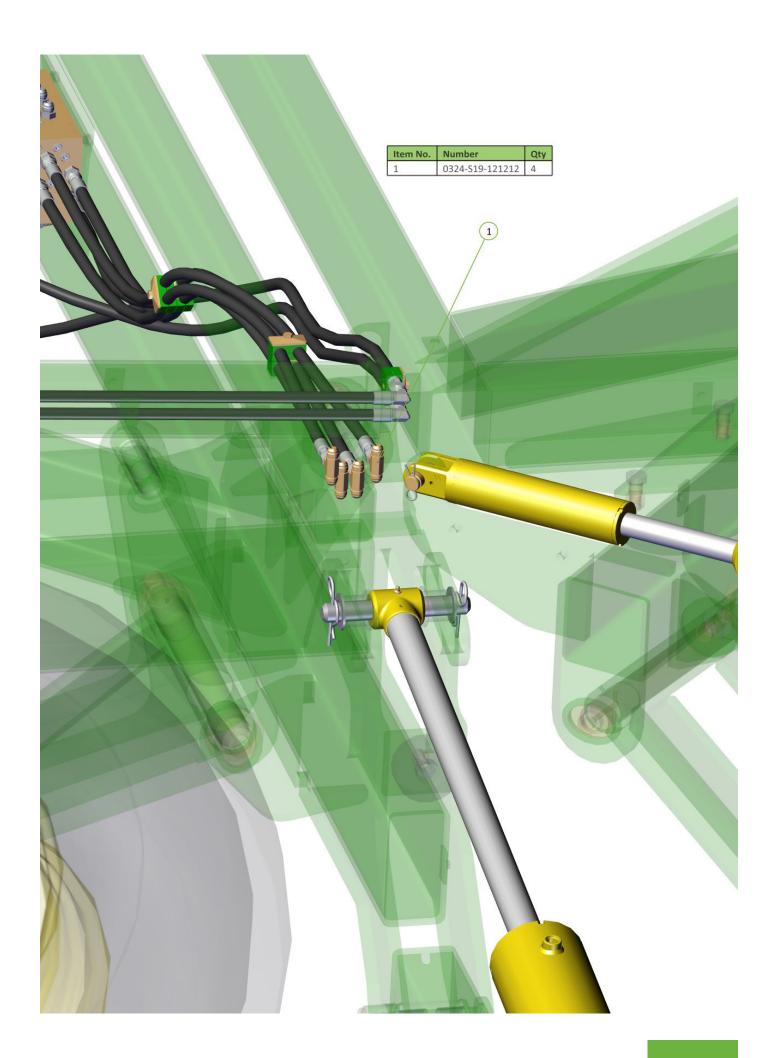


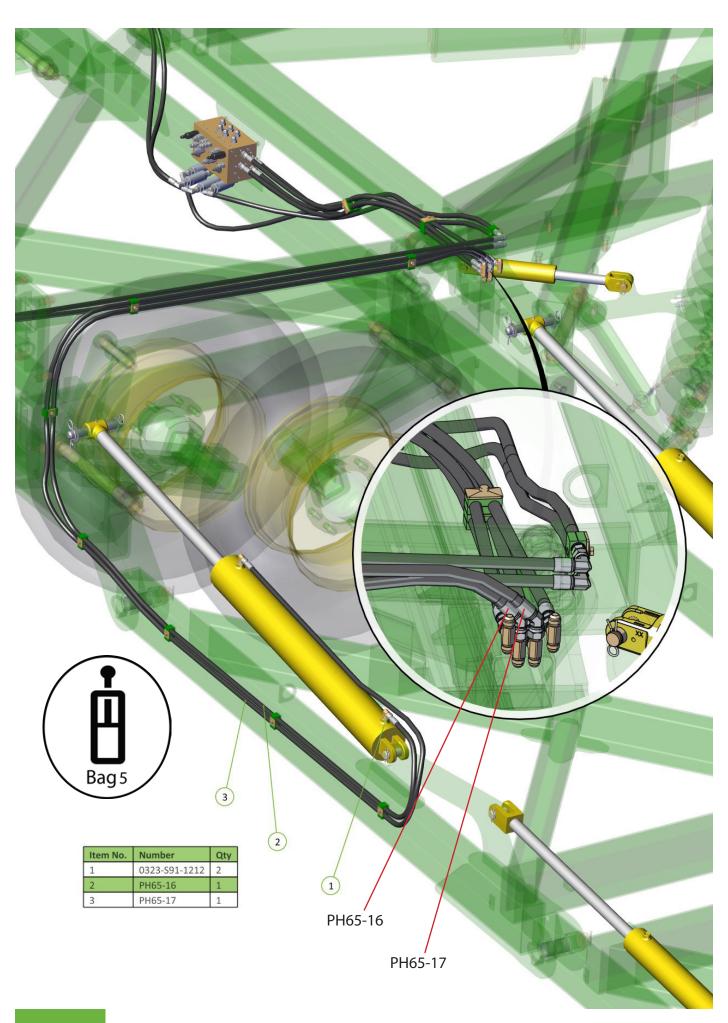


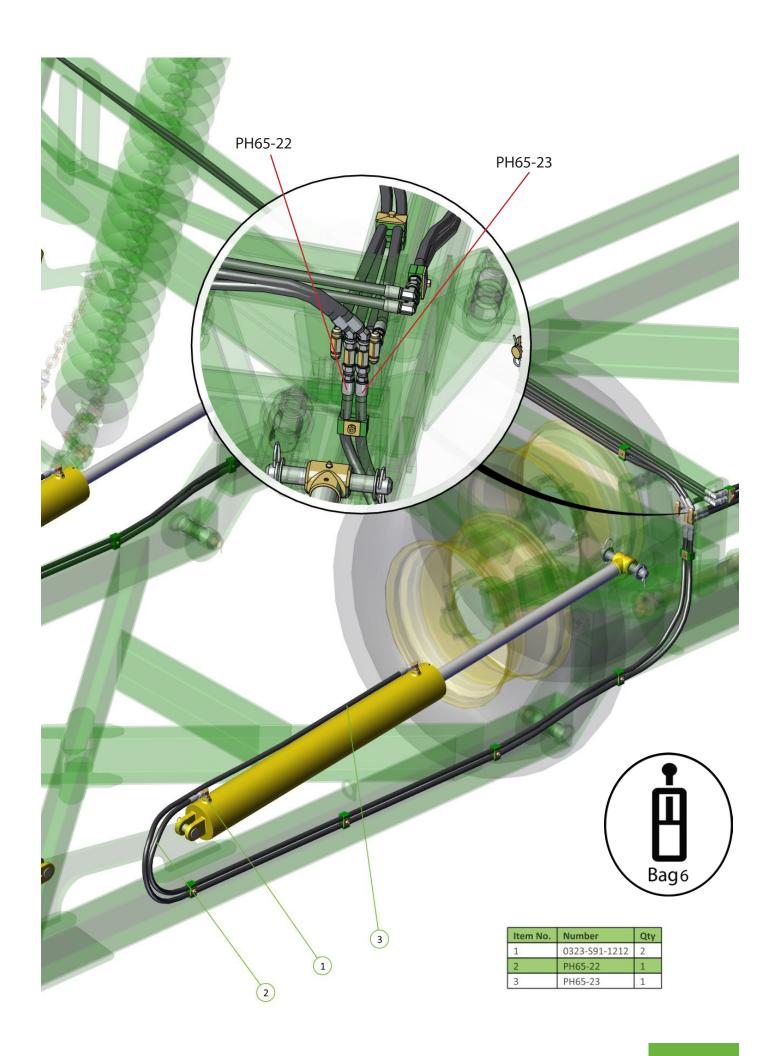


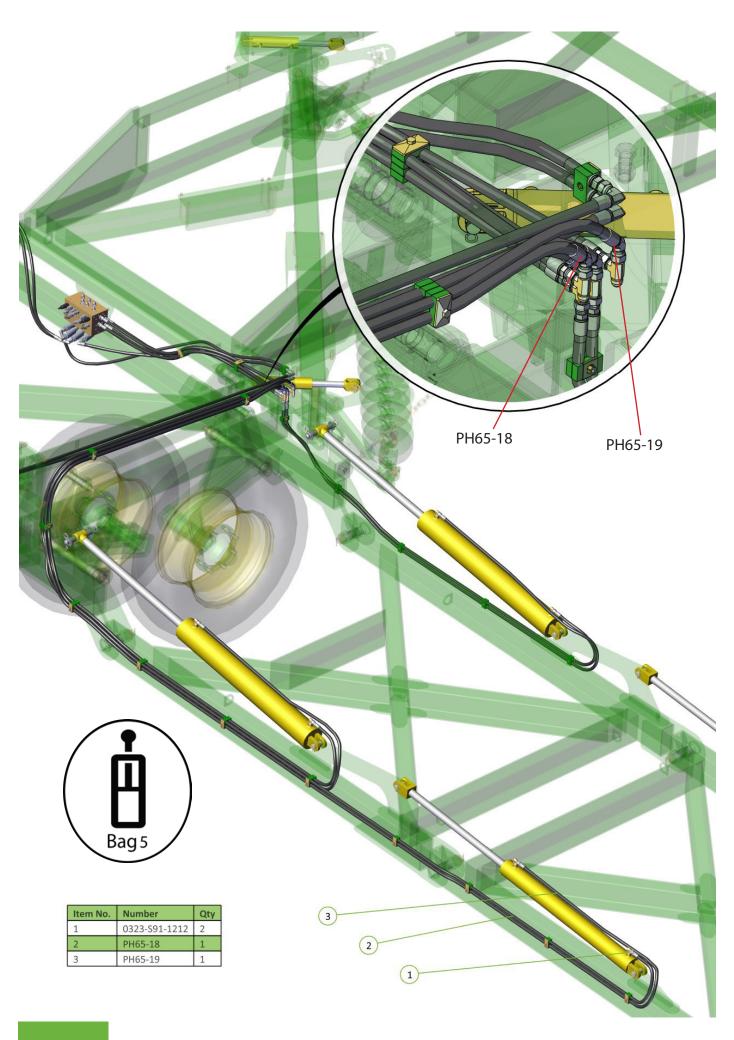


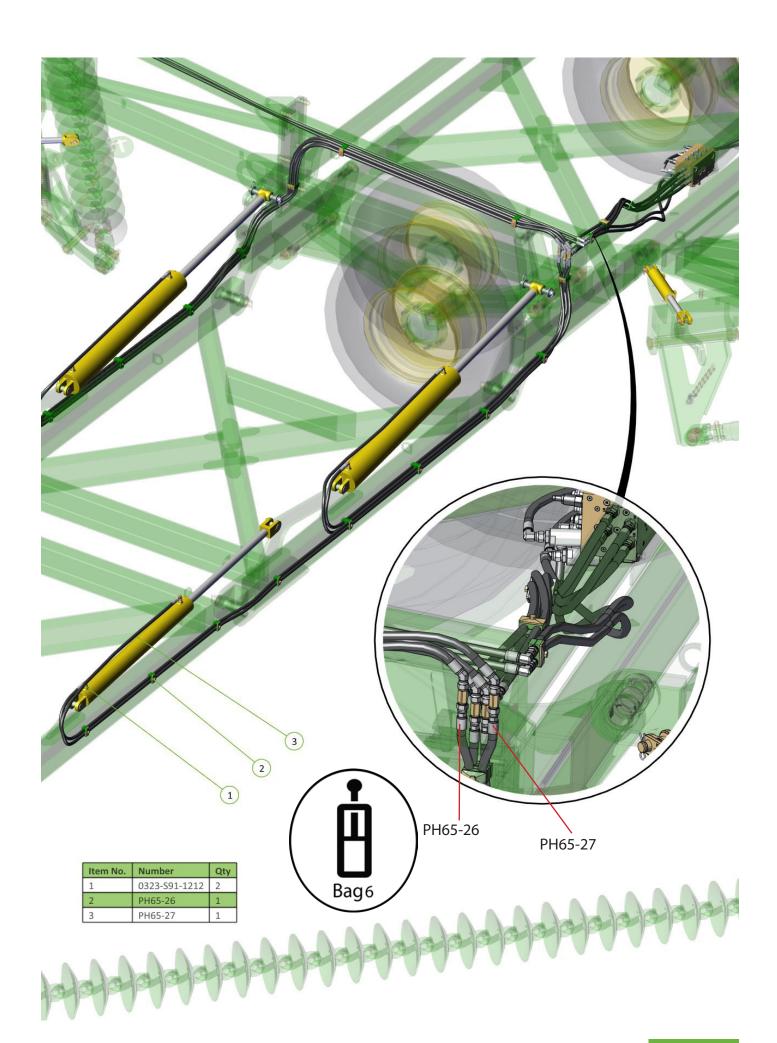


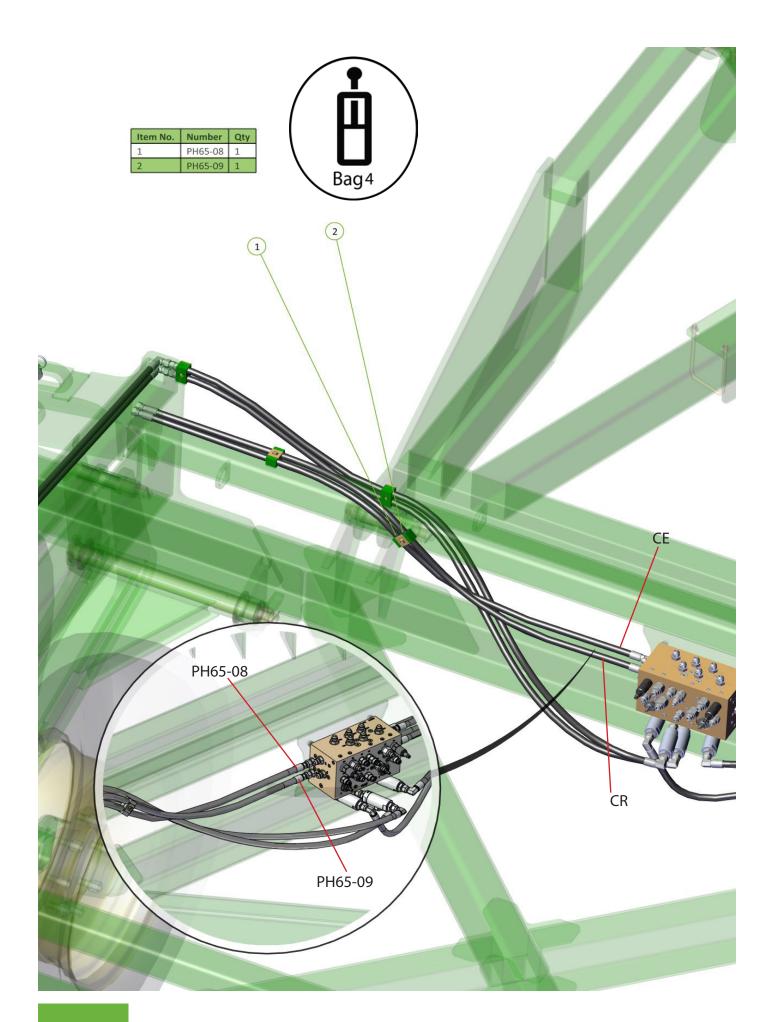


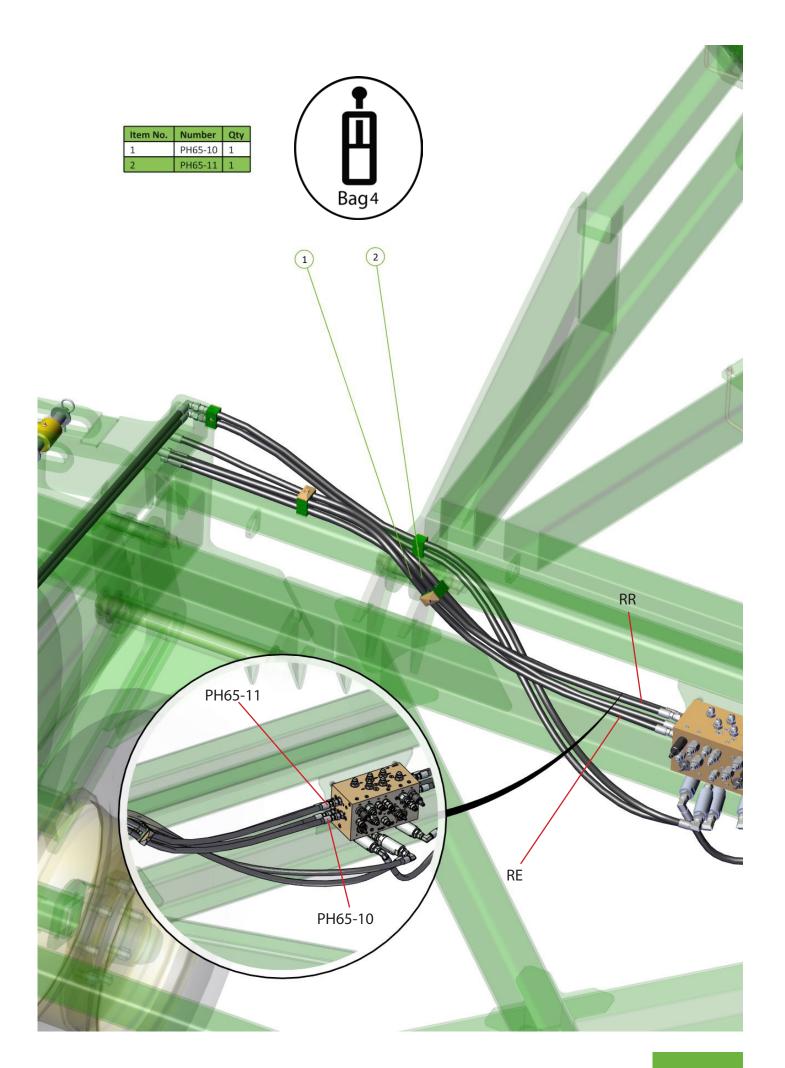


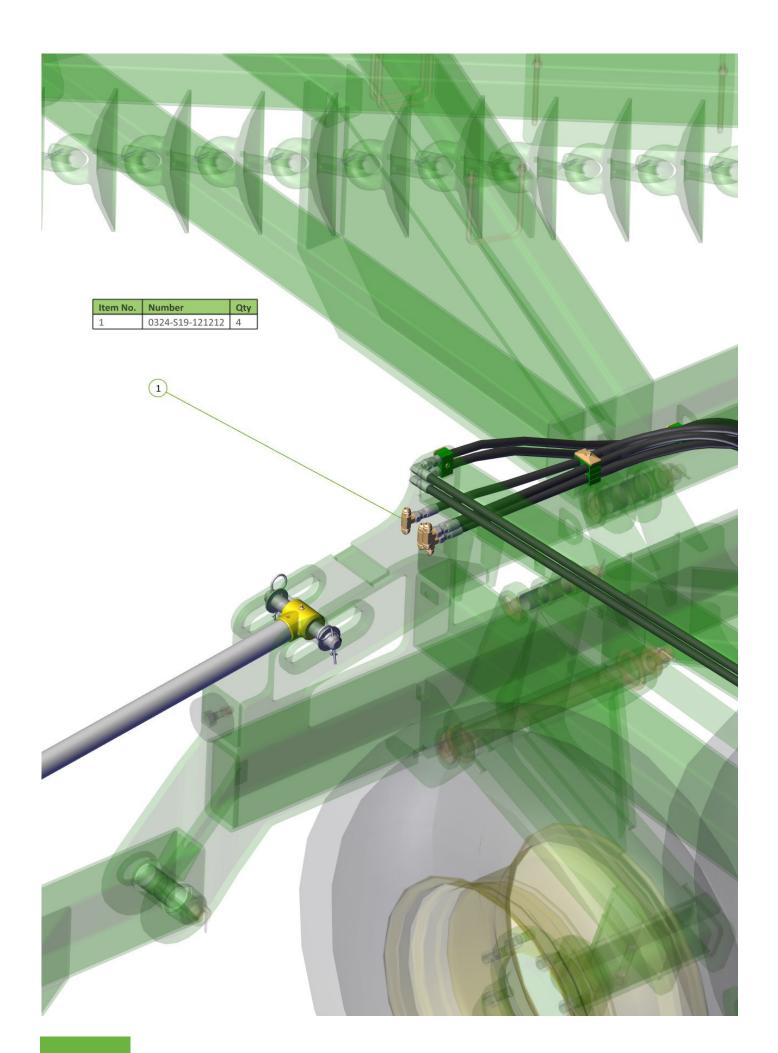


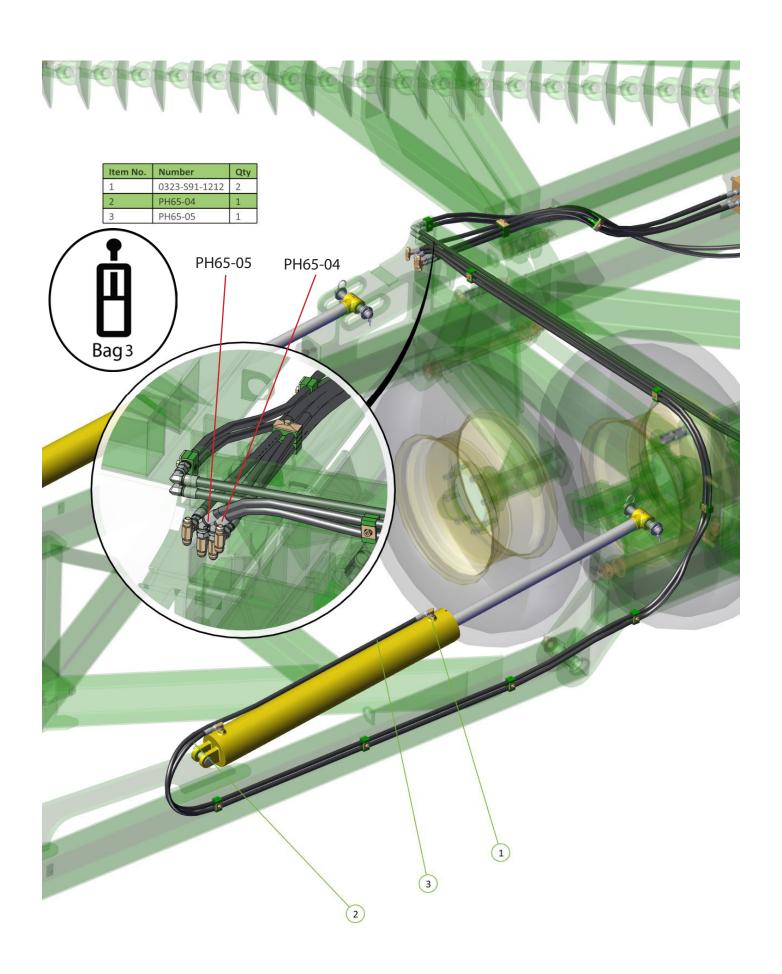


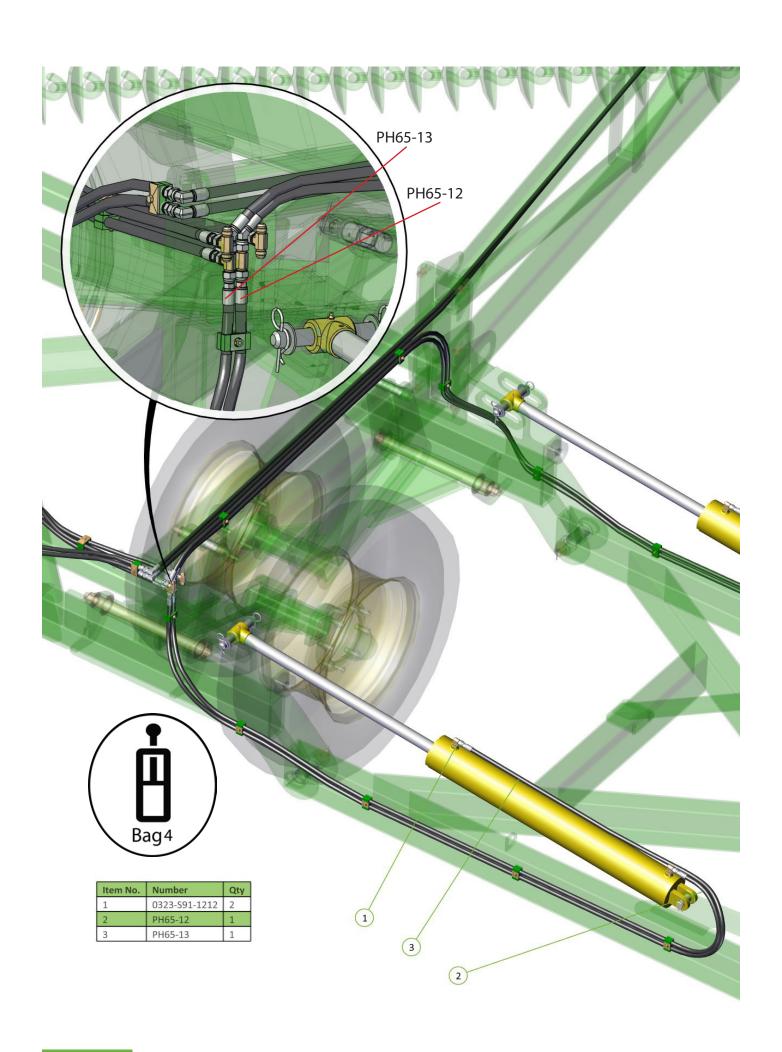


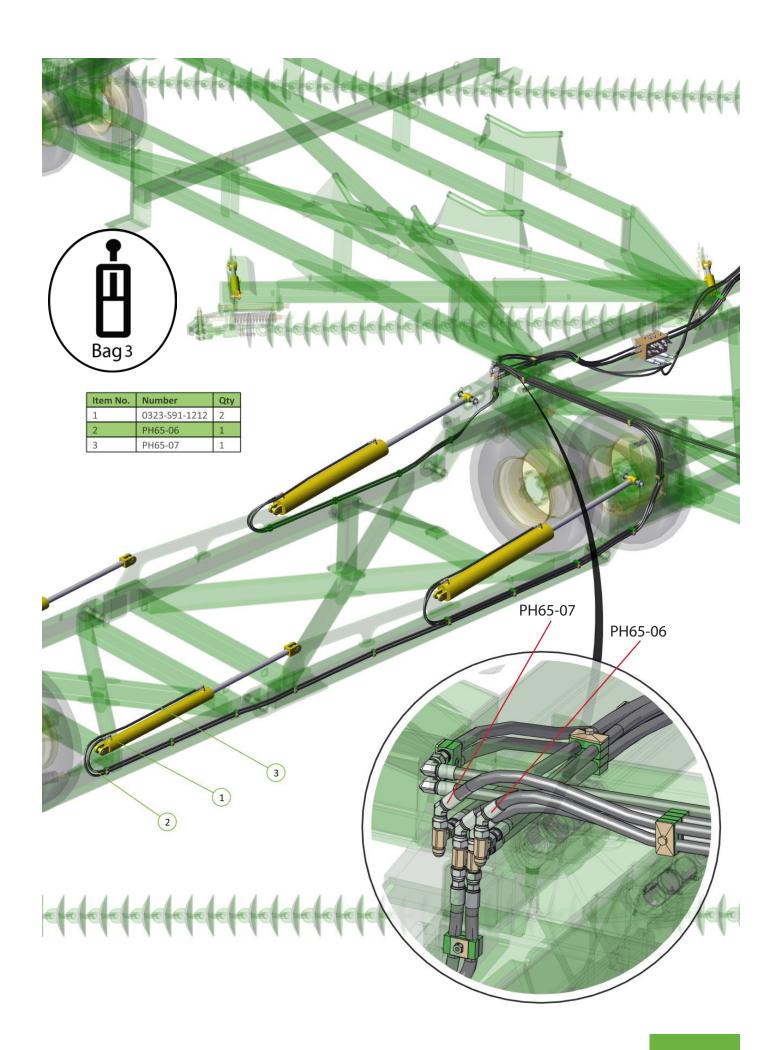


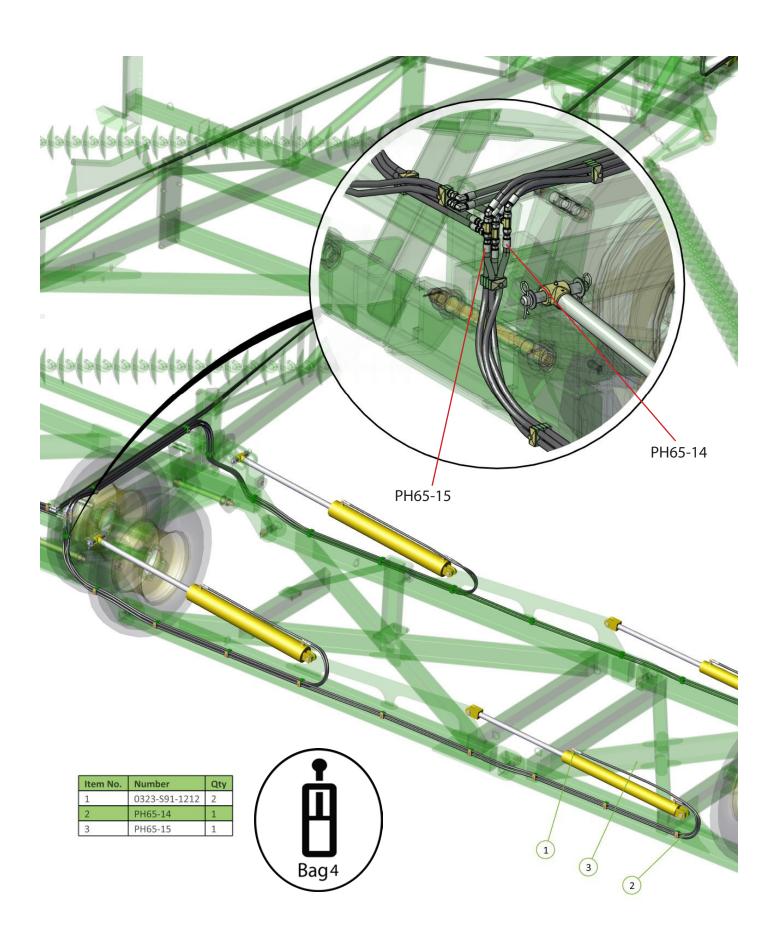


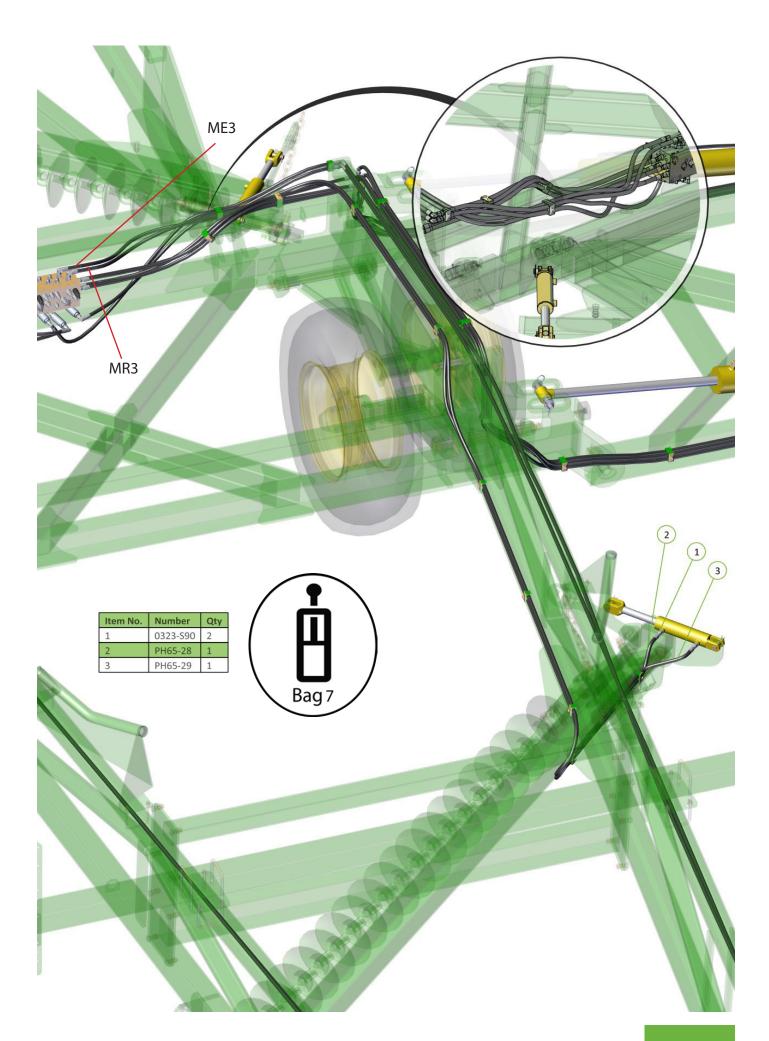


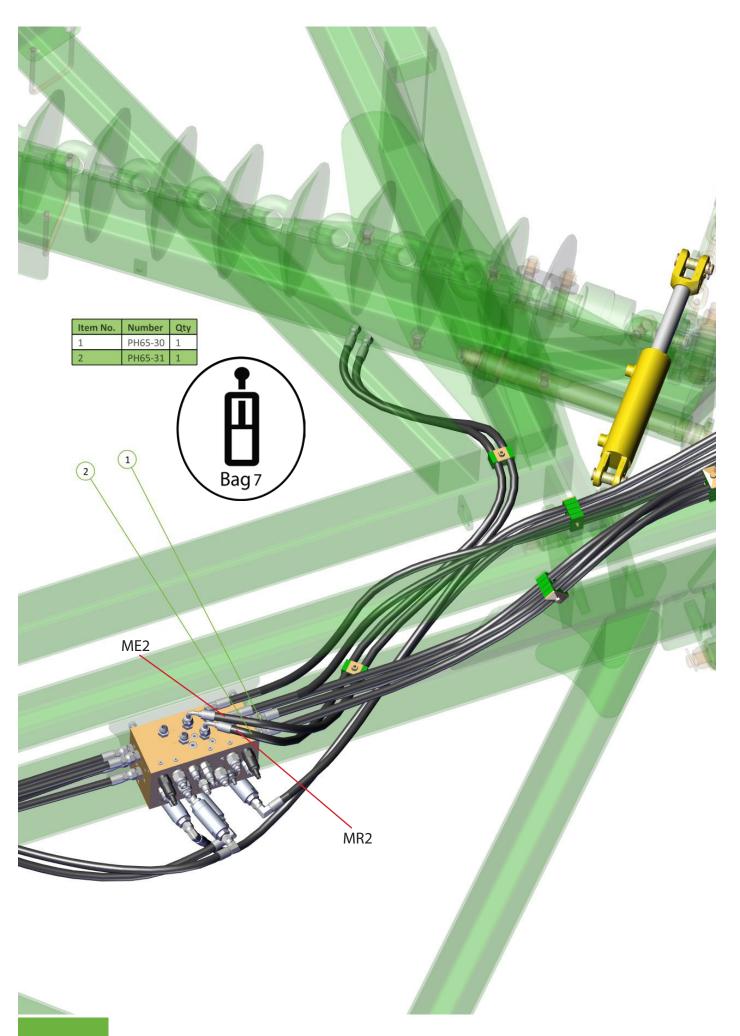


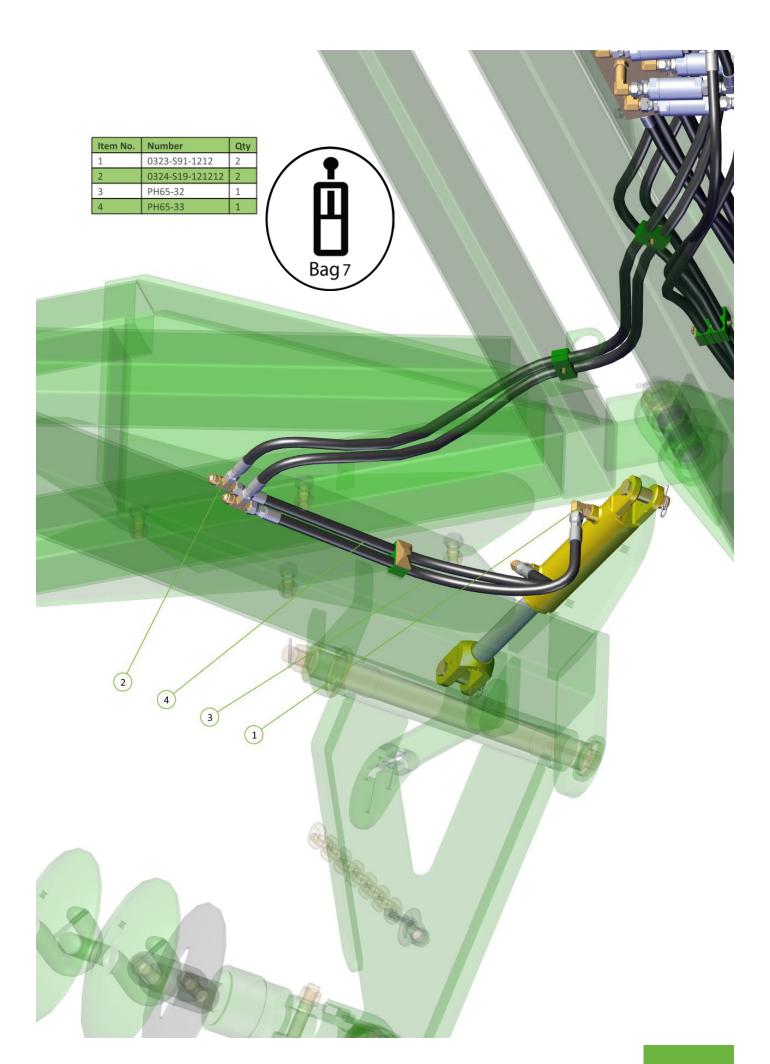


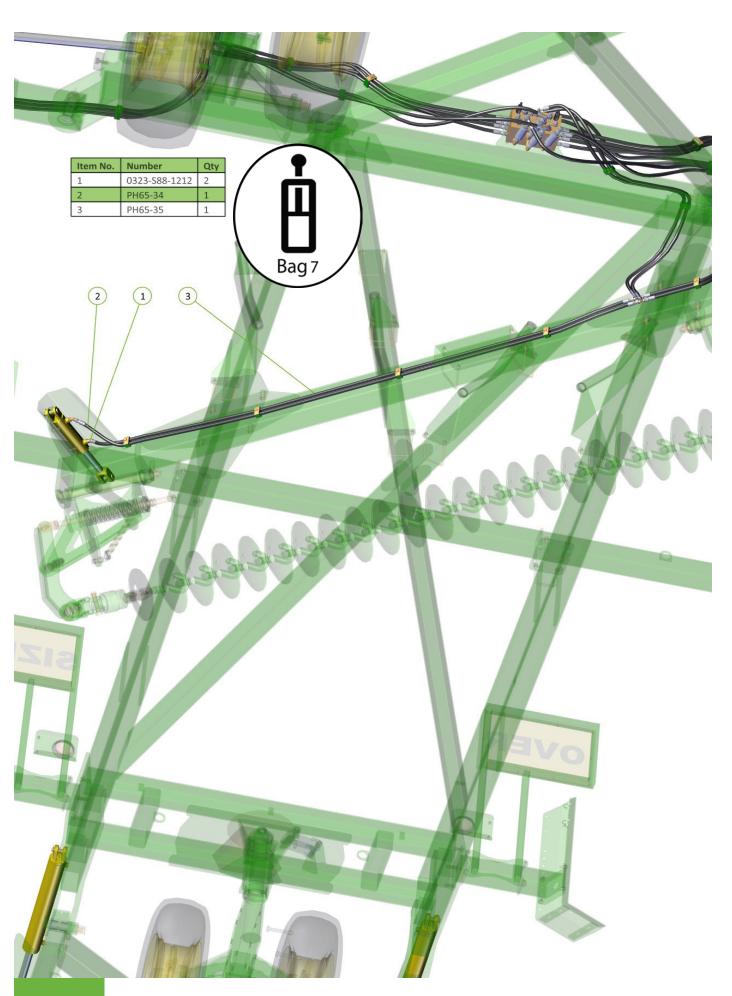


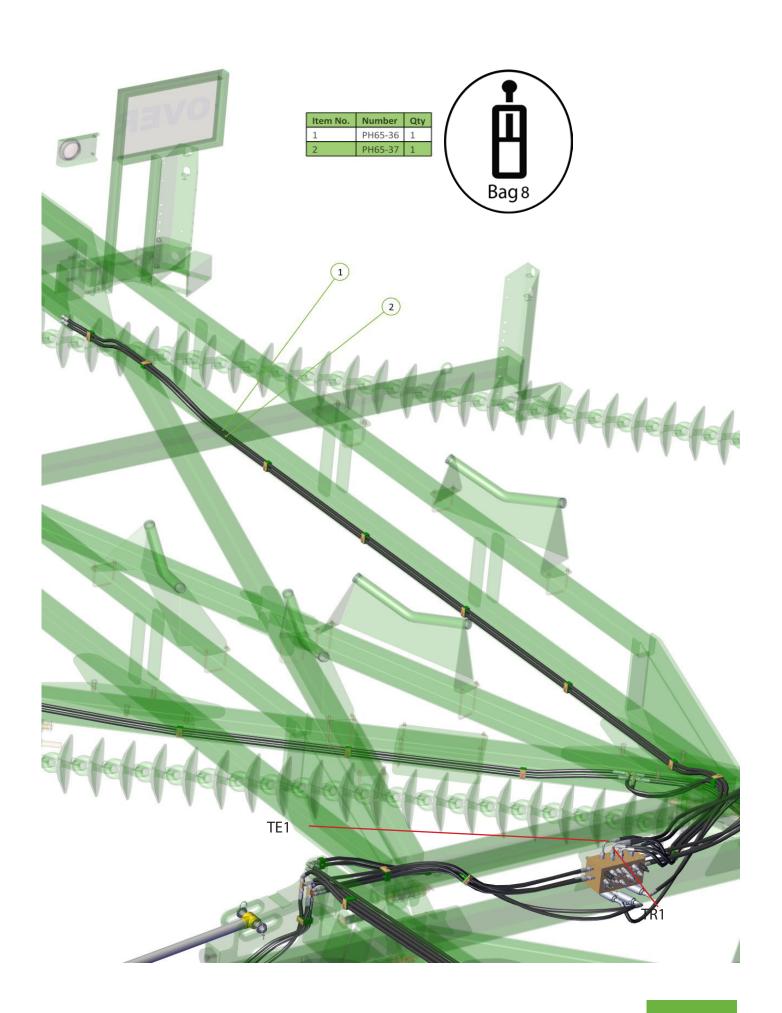




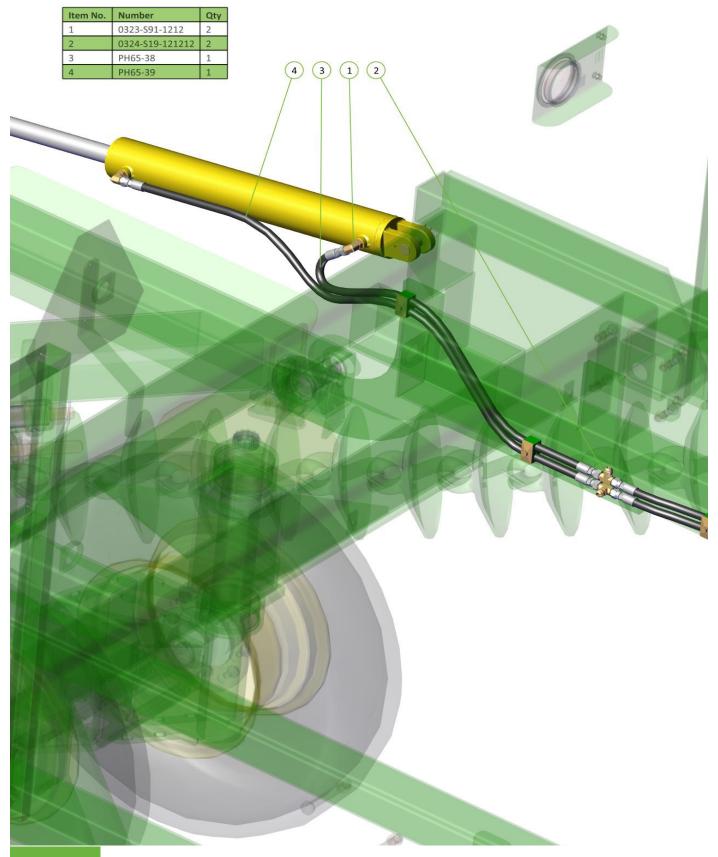


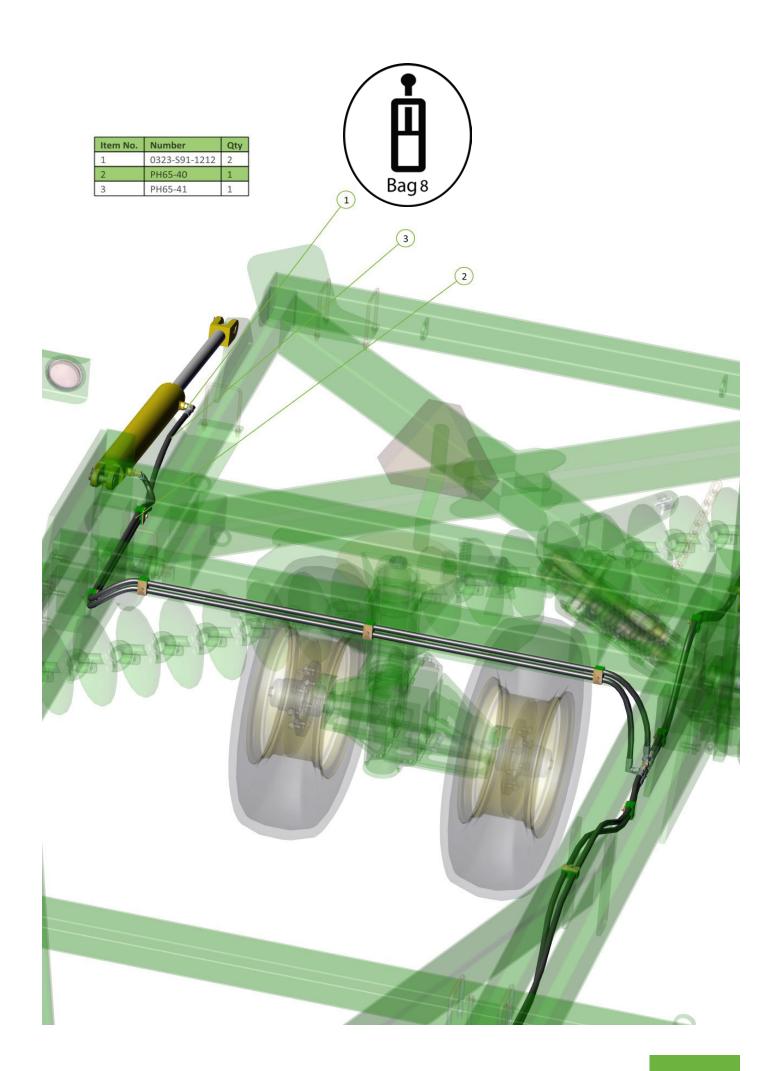


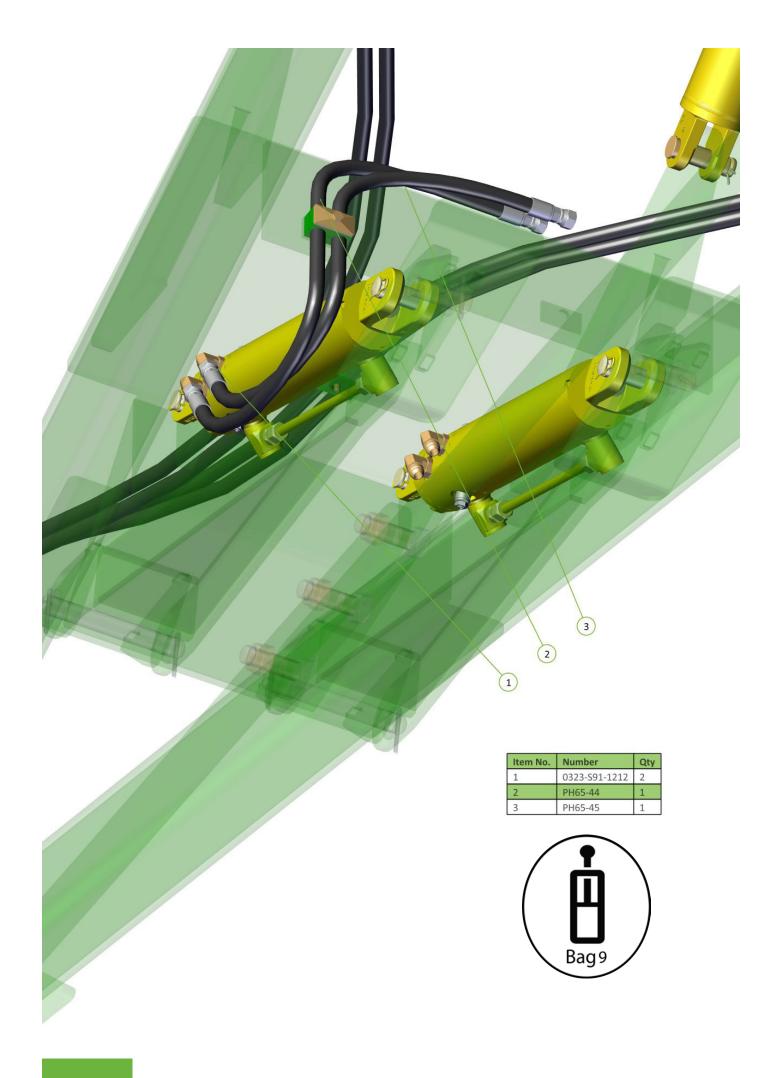


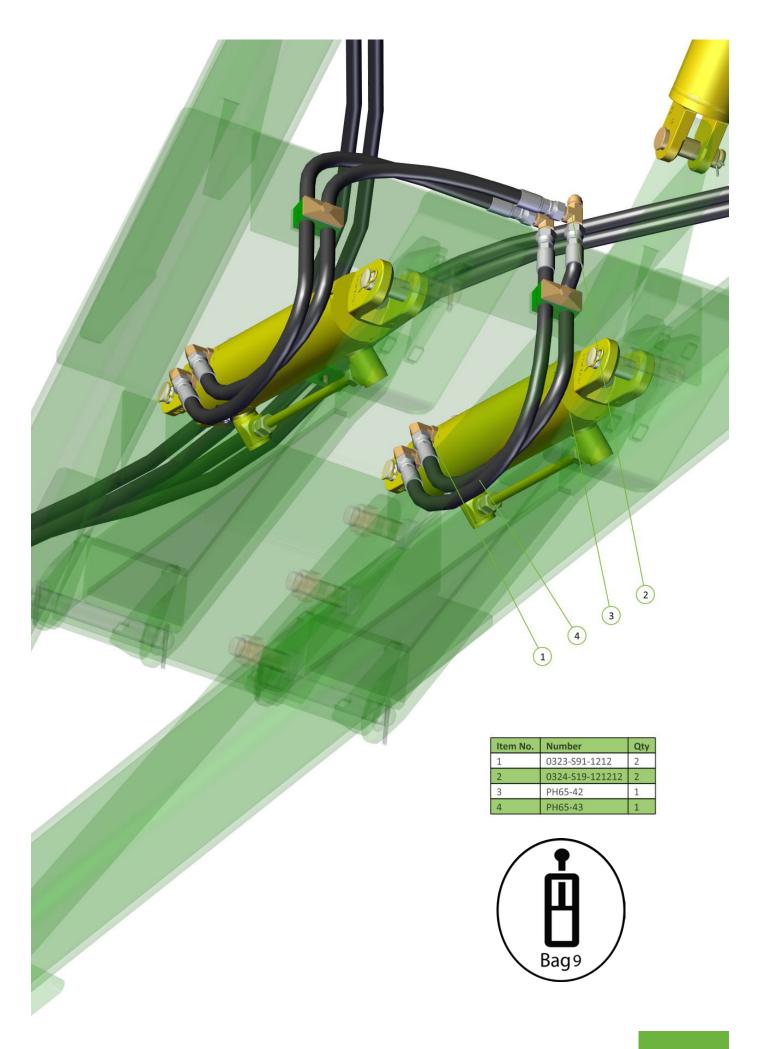


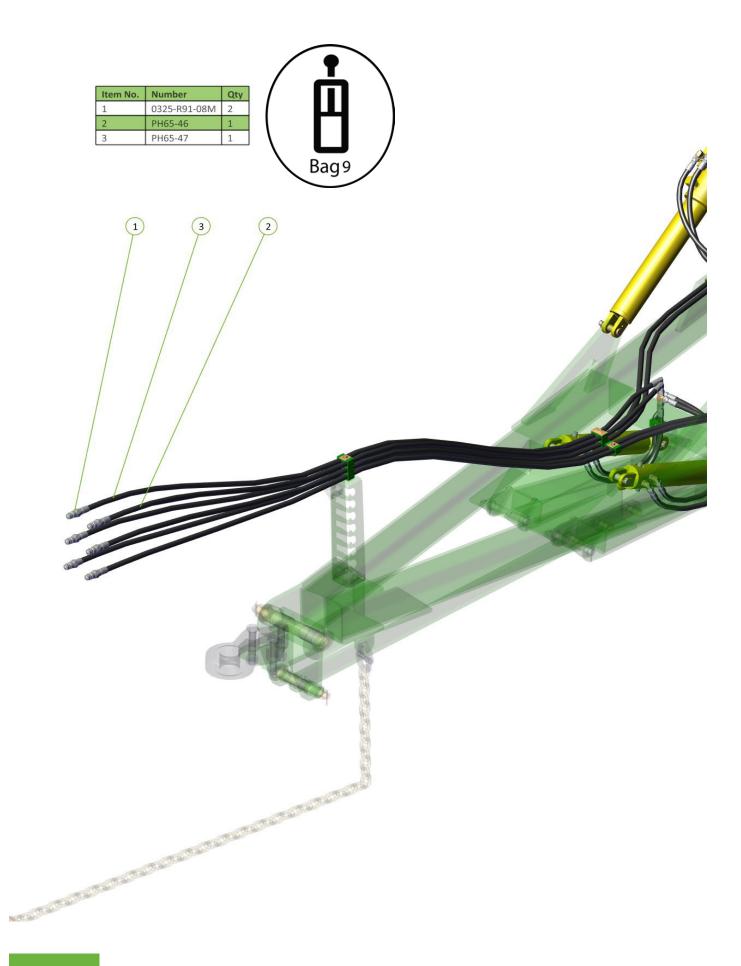


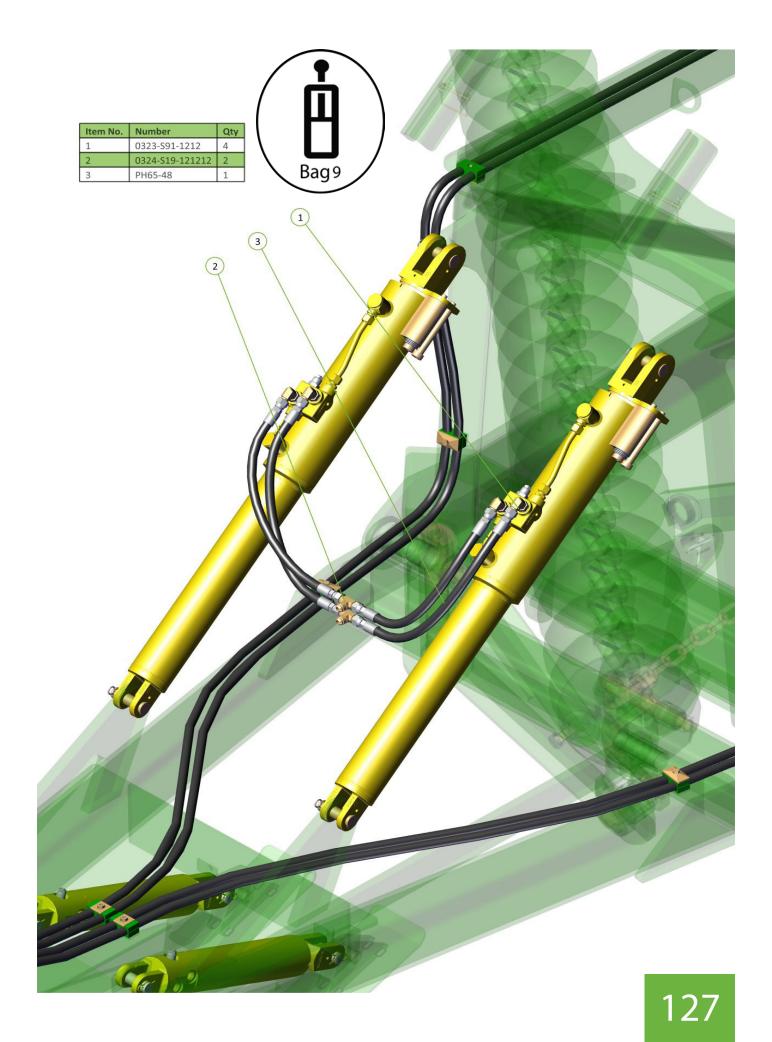


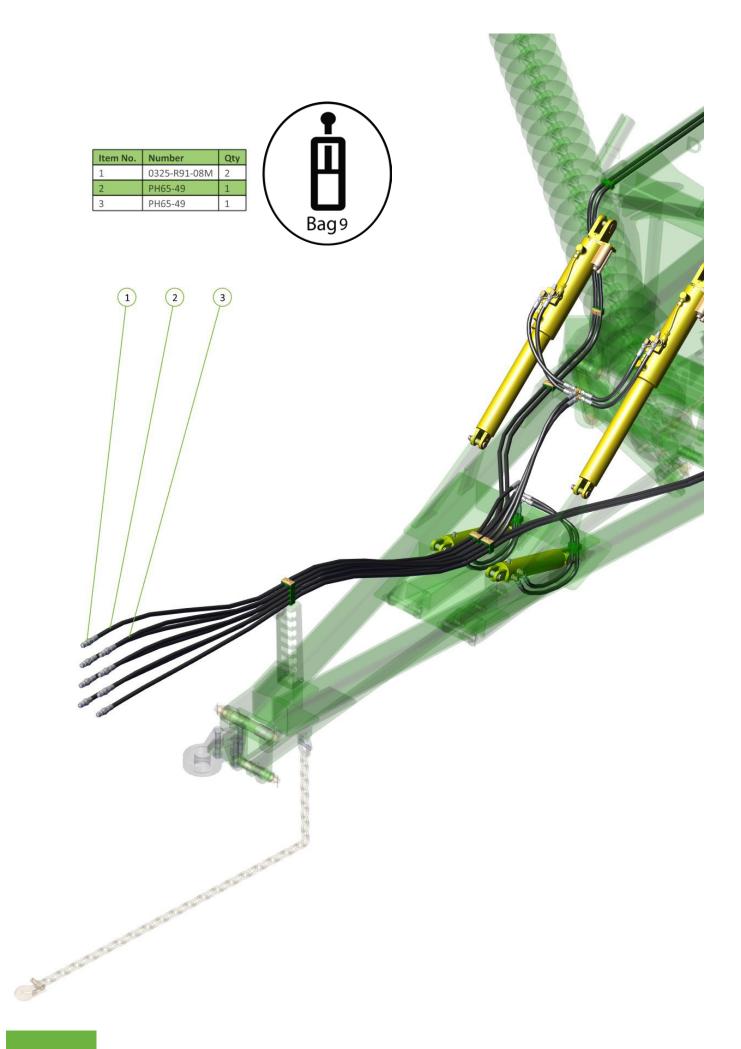












Hydraulic Fittings















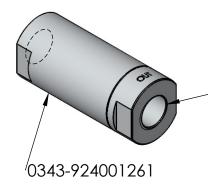










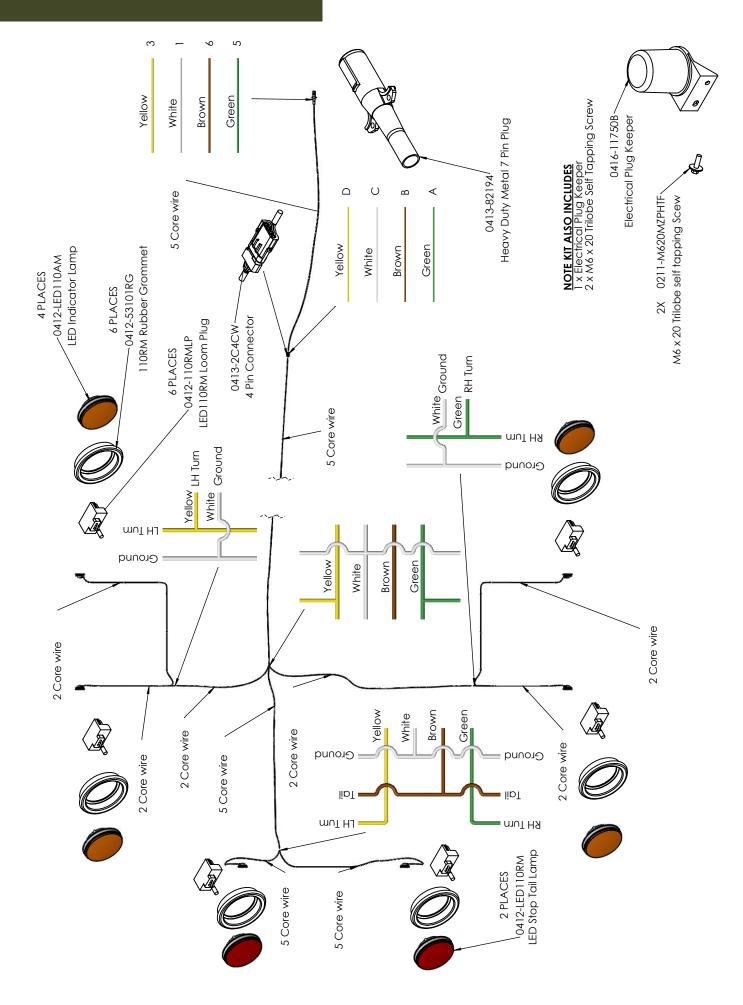


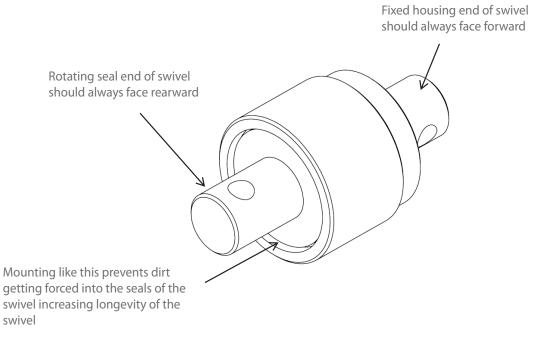
Note: Fit this end to valve block

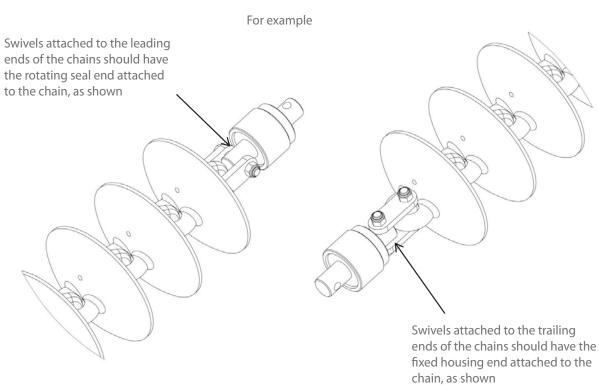
Hydraulic Fittings (cont.)

New Style Hose Clamp Components Fits Hose T5006A Old Style Hose Clamp Components Fits Hose T26A 0325-RCD-2BH 0325-RCD-3BH Double Clamp Bolt Group 2 Double Clamp Bolt Group 3 ω|4 25 Ø8 Ø8 0325-RCD-3BS 0325-RCD-2BS Double Clamp Stacking Bolt Group 3 Double Clamp Stacking Bolt Group 2 Ø8 Ø8 0325-RCD-3PB 0325-RCD-2PB RCD Mounting Clamp Bottom Plate RCD Mounting Clamp Bottom Plate 0325-RCD-2PS 0325-RCD-2PS Double Clamp Stacking Plate Double Clamp Stacking Plate 0325-RCD-2PT 0325-RCD-3PT Clamp top plate group 2 Clamp top plate group 3 0325-RCD-17J 0325-RCD-19J 17mm Clamp Jaws (Pair) 19mm Clamp Jaws (Pair) [<u>11</u>" |16 |⊅17

Section 4 Diagrams & Charts

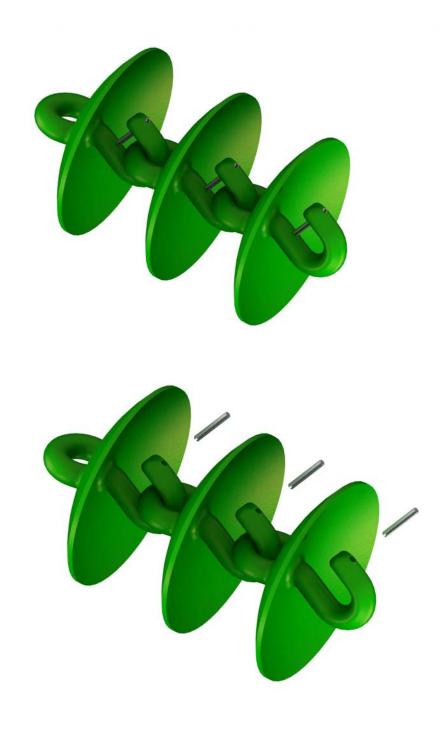






Please install cast link retaining Pins (3/8" x 3" Roll Pin, part number 0262-3-8X3) on all cast disc links (CL1 & CL2).

Failure to do this could lead to the discs becoming dislodged during transport causing severe damage or injury.



Operating speeds

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

Tire pressure

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

Chain Harrow specifications

Model	62′HDX
Working width	62′/18.9m
Transport width	16.3′/5.0m
Transport height	15.5′/4.7m
Transport length	73.8′/22.5m

Bolt Torque Settings

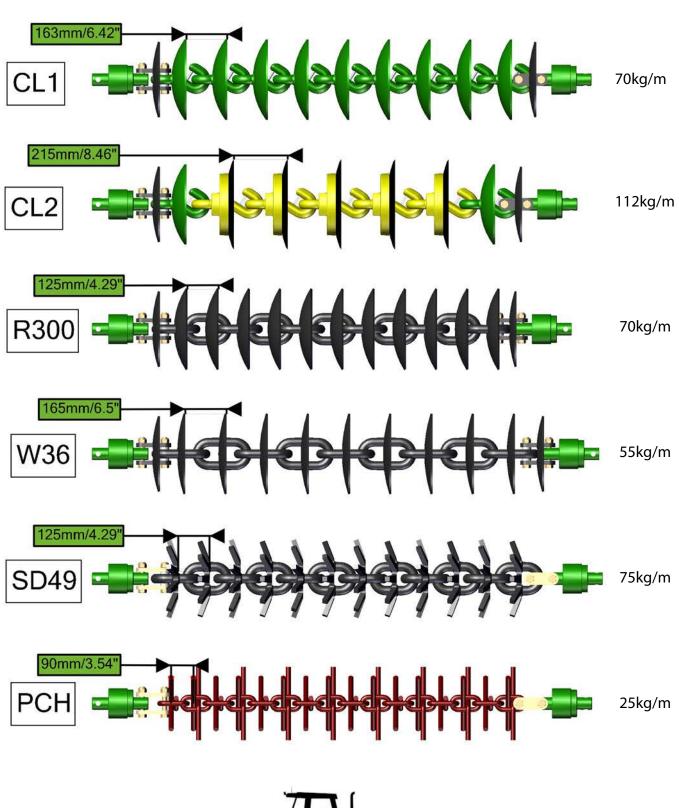
Bolt Type	Wheel nut				U Bolt	t		Grad	de 8.8	Bolt		Gra 10.9	de Bolt	
Bolt Size	M18	M20	1/2"	9/16"	M10	M12	M16	M10	M12	M16	M20	M24	M20	M24
Ft lb	255	265	90	100	22	36	55	32	48	140	190	270	300	350
Nm	345	360	125	140	30	50	75	44	65	190	260	370	406	475

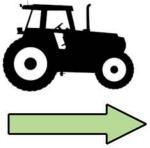
[1] When fitting a wheel & tire to a hub, tighten the wheel nuts in rotation to the correct tension. To achieve this choose a wheel nut & tighten, then proceed clockwise to the next wheel nut & tighten & so on until all wheel nuts are tight. Then repeat the procedure to check that all nuts are tight.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

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

Mode	el .	Length	CL2	CL1	W36	R300	SD49	Prickle chain
			CL2 disc chain also requires CL1 disc chain					
62' HDX	Front right	37.1′/11.3m	CL2 - 52 CL1 - 2	71	70	93	93	129
	Front left	37.1′/11.3m	CL2 - 52 CL1 - 2	70	69	91	91	127
	Rear right	45.5′/13.9m	CL2 - 51 CL1 - 16	85	84	111	111	154
	Rear left	37.1′/11.3m	CL2 - 52 CL1 - 2	71	70	92	92	128
	Modules front	11.2′/3.4m	CL2 - 13 CL1 - 3	21	21	28	28	38
	Modules rear	11.2′/3.4m	CL2 - 14 CL1 - 2	21	21	28	28	38

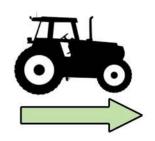
Section 5 Chain Assembly

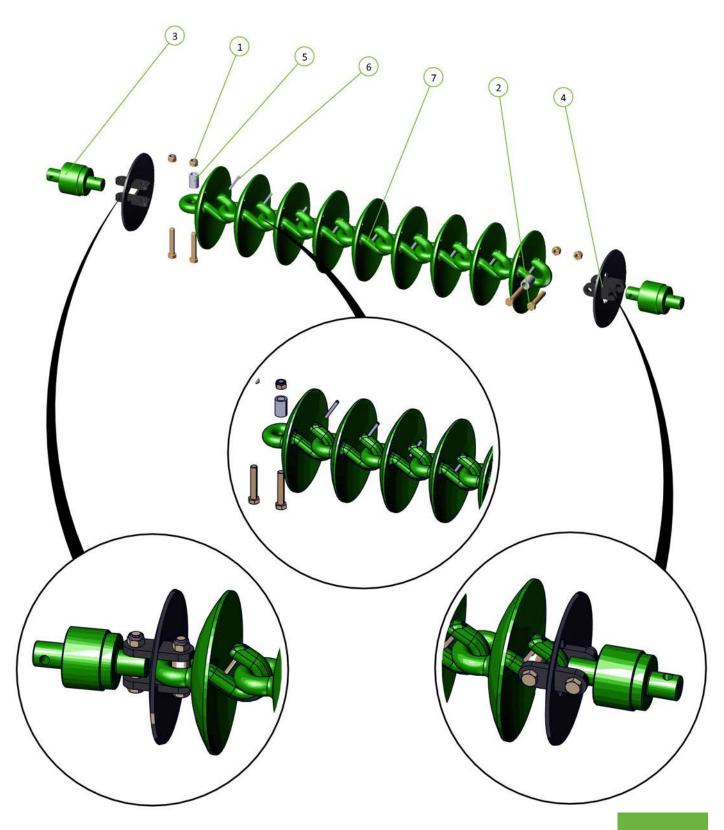




CL1 Disc Chain

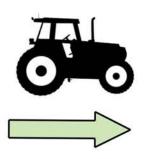
Item No.	Description	Number	Qty
1	Nyloc Nut M20/24	0221-NYL20/24	4
2	M20 x 110 / M24 x 120 grade 10.9 ZP Short Thread Bolt	0211-20110ST/0211-24120ST	4
3	20/24mm Bolt Swivel Unit	0802-PCHB55 / 0802-PCHB553	2
4	Disc Chain Tie Plate Link 20mm / 24mm	0802-DCTP-20 / 0802-DCTP-24	2
5	Tie Plate Bush	0801-PCDCS55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

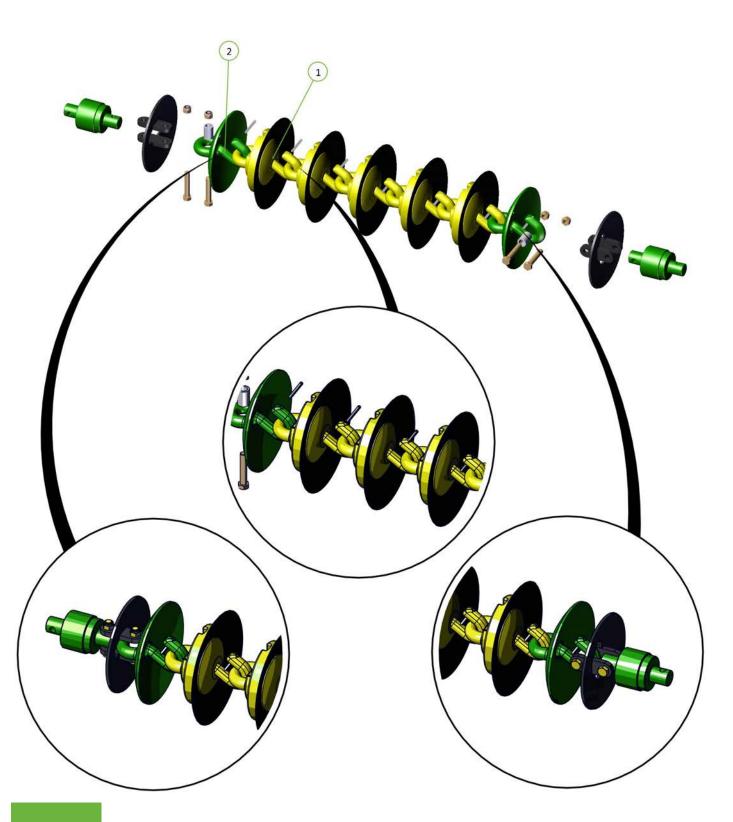


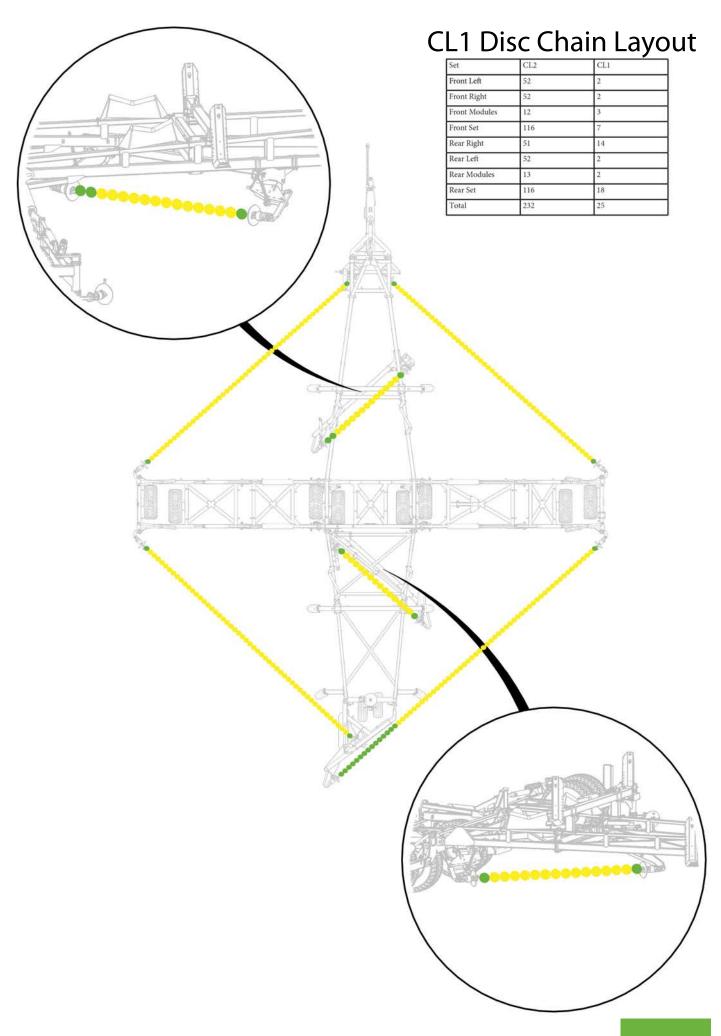


CL2 Disc Chain

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

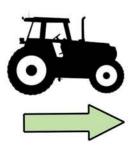


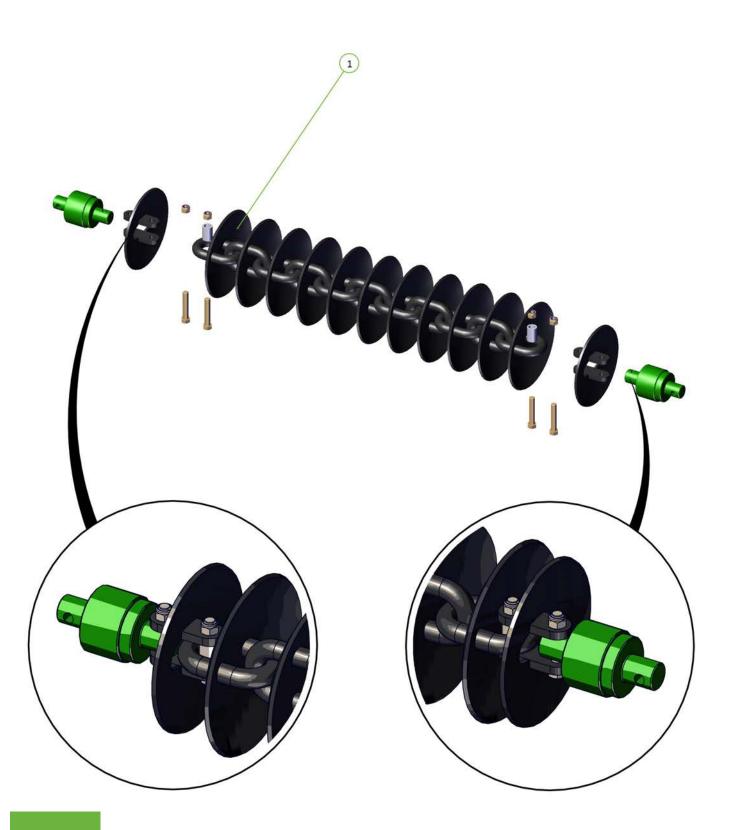




R300 Disc Chain

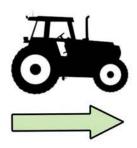
Item No.	Description	Number	Qty
1	R300 Chain Link	0803-R300	1

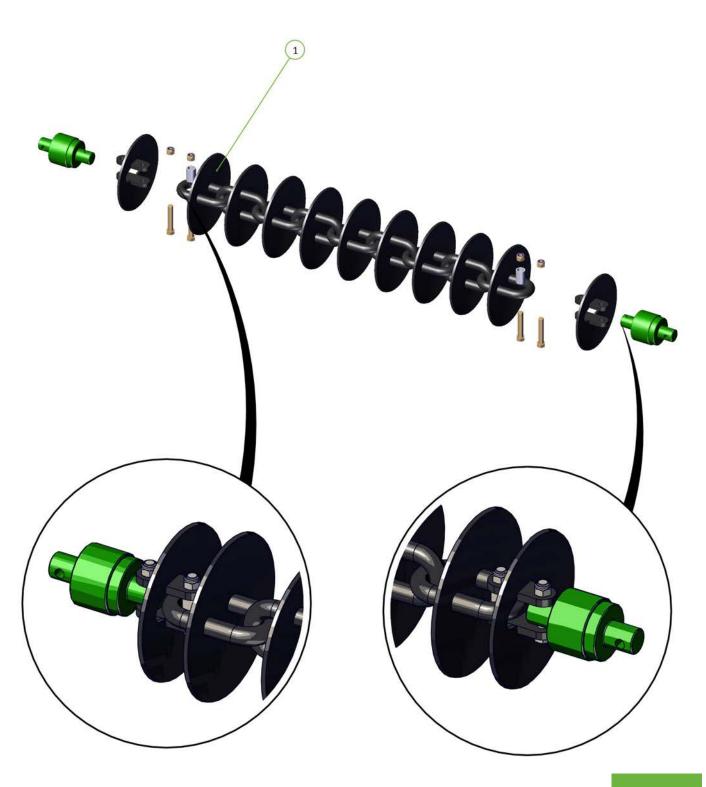




W36 Disc Chain

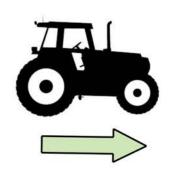
Item No.	Description	Number	Qty
1	W36/25 Chain Link	0803-W36	1

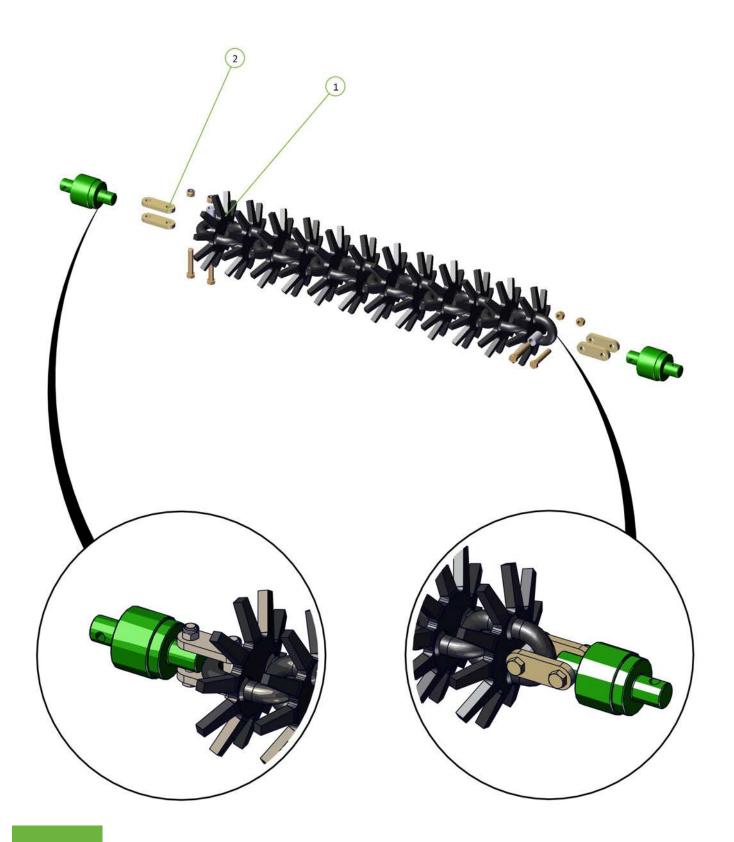




Spike Disc Chain

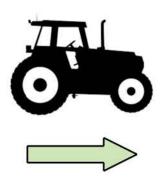
Item No.	Description	Number	Qty
1	10 Spike Disc Chain 49/27/5	0803-SD49	1
2	Tie Plate For 20mm Bolt/ Tie Plate For 24mm Bolt	0800-83.2 / 0800-83.3	4

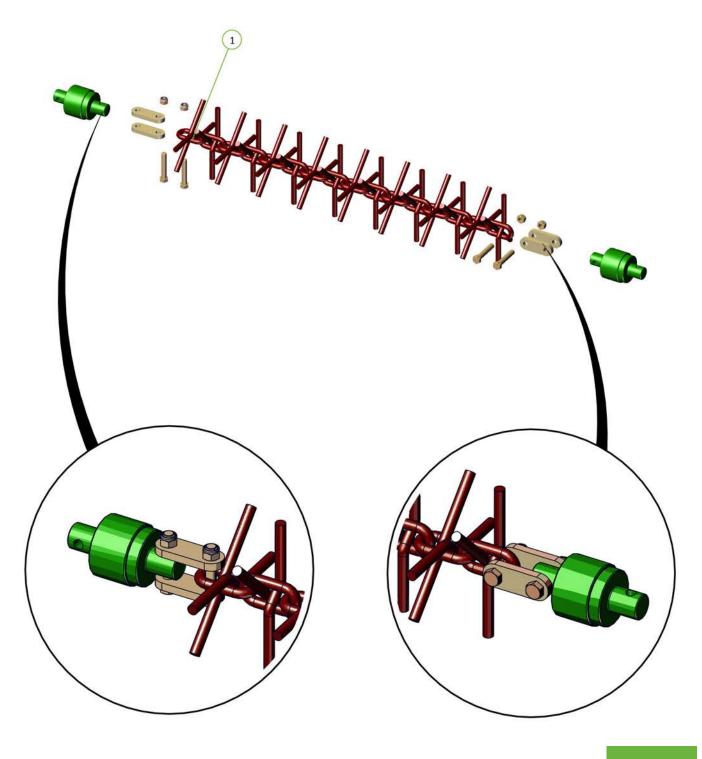




Prickle Chain

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





Section 6Operation & Technical Bulletins

Basic Operation

Unfolding:

- 1. Walk around and inspect the machine.
 - a. Check that chains are not hooked on framework
 - b. Check swivel bolts are in place and not broken
 - c. Check that height adjusting chains have not fallen out of their slotted plates during transport.
- 2. Lower front A frame to working height.
- 3. Unfold wings holding the hydraulic lever until the tail is in working position and the main center cylinder pins have centerd in their slots.
- 4. Walk around and check that all chain links are straight and that working height of all swivels is correct for field conditions. Adjust if neccessary.
- 5. Move off with all chains in working position. If neccessary it is acceptabe to raise front A pull to transport height. This will lift the front chains off the ground and reduce the load on the tractor. Lower the front A pull once moving satisfactorily.

Folding:

- 1. Lower the front A frame to working height. (This is important to ensure that all chains locate correctly in their transport rests).
- 2. Fold the wings. They should move as follows; modules will raise, tail will raise, main center cylinders will retract, one or both, until the wings stand vertically. The left outer wing then the right outer wing will fold down.
- 3. Raise front A frame to transport height.
- 4. Walk around and check that chains have located correctly in transport rests.

Setting for correct chain tension

Wings

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

See table below

Spring Compression Length









Modules

Loosen the lock nut on the draw bolt.

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

Retighten the lock nut.

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





Importance of chain tension

Operational

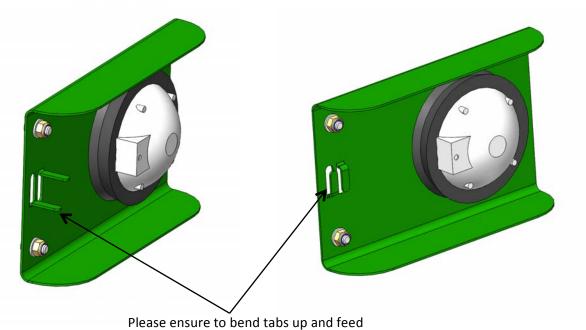
It is imperative that the correct adjustment be maintained. Only through correct adjustment can a smooth and level finish be achieved in field working.

Loose chains lead to:

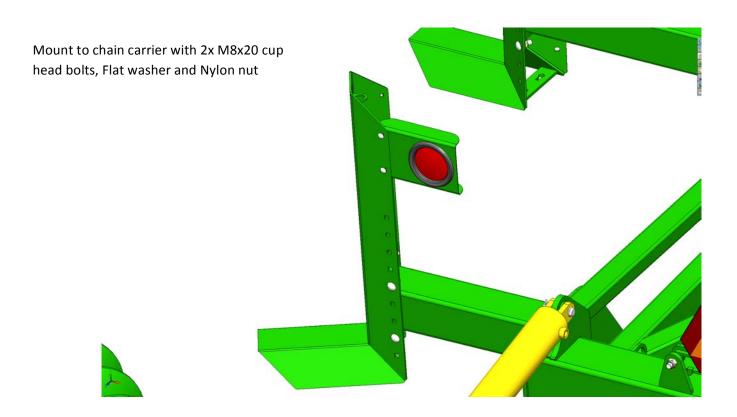
- Uneven performance across the width of the machine
- Uneven weed control
- Unsatisfactory incorporation
- Ineffective levelling
- Accelerated or premature chain wear
- Chains failing to engage with transport locators when folded
- Machine damage when folding or unfolding
- Uneven field surface with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

A correctly adjusted machine will not cause this phenomenon.

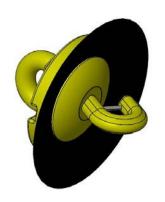
Light Brackets



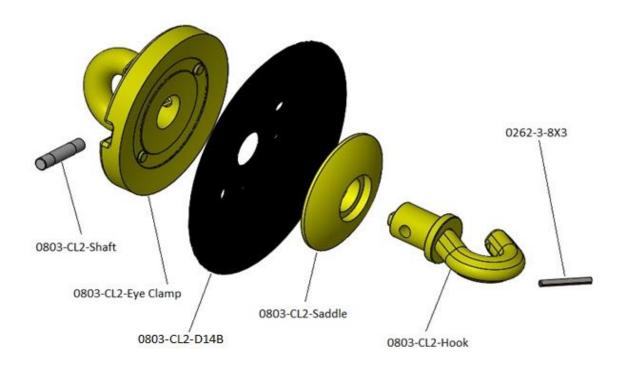
Please ensure to bend tabs up and feed wire through, so the light cable is secure



CL2 Chain Configuration

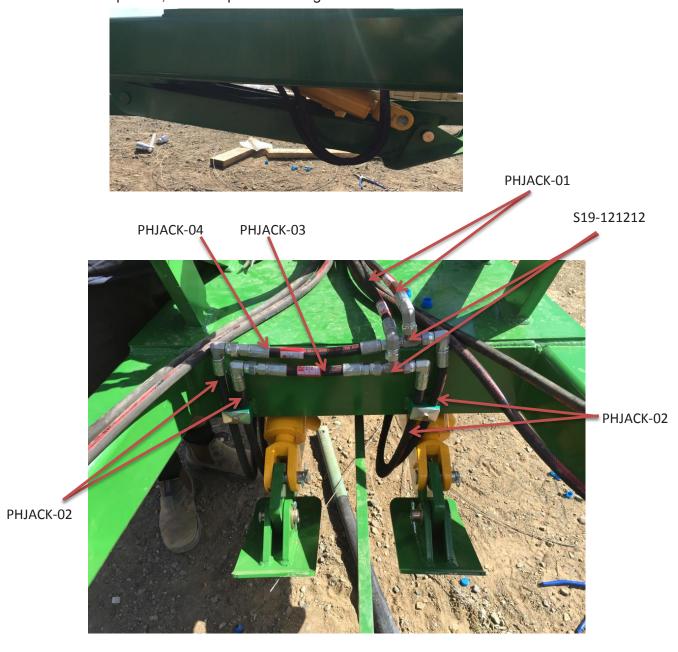


0803-CL2-Link Assembly



Hydraulic Jack

Please find photos, hose map and drawings attached



Hydraulic Jack





S91-1212 (90 Elbow)

CL2 Disc Change Procedure

This document describes a procedure for the safe changeover of CL2 discs.

NOTE: Each disc weighs 22kg (48lb). Appropriate care must be taken during manual handling

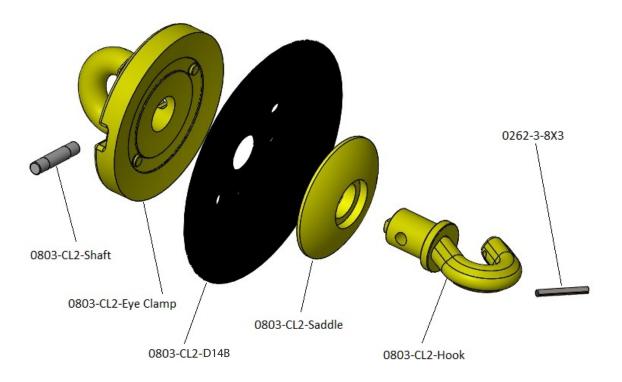


Figure 1: Exploded view of CL2 disc assembly

Changeover procedure as follows:

- 1. Locate press jig in press (see Figure 2 for orientation).
- 2. Load disc into press with Hook facing upwards ensure that Eye Clamp and Hook are secured within the jig with pins supplied
- 3. Close press, applying force to Saddle (see Figure 3). DO NOT exceed pressure of 9 Tonne (19,800lb)
- 4. With the clamping force applied, push or tap the shaft with a hammer & drift, and remove from the CL2 Disc assembly
- 5. Open the press and remove the Disc from the assembly
- 6. Ensure that all surfaces of the castings are free from debris

CL2 Disc Change Procedure

- 7. Place replacement disc on to Eye Clamp, ensuring that location holes align with casting lugs
- 8. Close press and re-apply clamping force. Visually confirm that Hook location hole is properly aligned with Eye Clamp location hole
- 9. Locate pin within hole and tap gently through both castings
- 10. Remove clamping force, and remove CL2 assembly from jig
- 11. CL2 disc is now ready for use. Repeat procedure as necessary

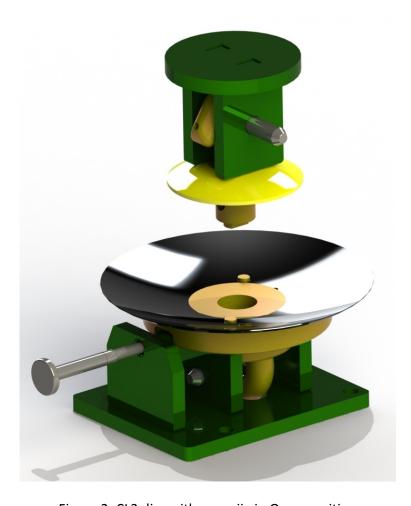
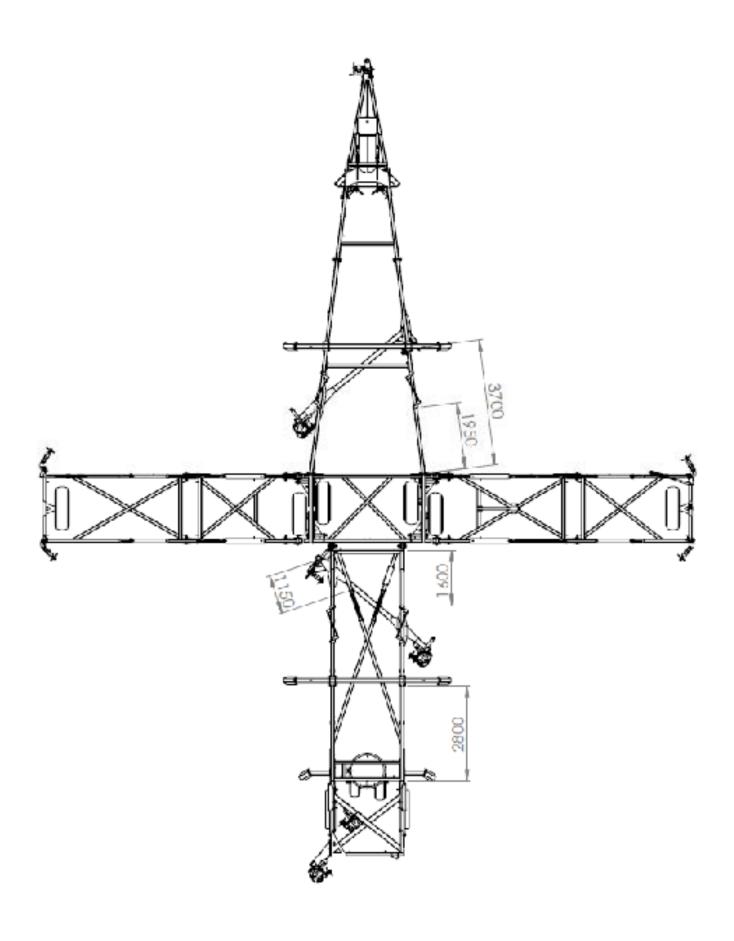


Figure 2: CL2 disc with press jig in Open position

CL2 Disc Change Procedure



Figure 3: CL2 disc with press jig in Closed position



Pre-delivery check list	Checked
Check tyre pressure (As per manual)	
Check wheel nuts are tight	
Hydraulic rams & hoses are sound	
Grease caster wheel kingpin bearing	
All bolts and nuts are tightened to the correct torque values	
All safety decals are on the machine in the correct locations as per the operator's manual	
Check the chain tension as per the operator's manual	
Assembly and operating manuals are in the manual canister	
Brake disc tension spring is tensioned for road transport (50-63mm)	
Roll pins are installed in the CL Discs (CL2 & CL1)	
Chains are resting correctly in their transport supports (chain carries)	
Machine is registered	

