

Diamond Chain HarrowAssembly and Parts Manual

Model 30 Revision | February 2018

Australia

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Thank you for choosing a Kelly Engineering product

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

Spare parts can be purchased, as required, through your local dealer or by contacting Kelly Engineering Australia or in the United States, Hood & Company.

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

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Section 1 Unpacking

Unpacking

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



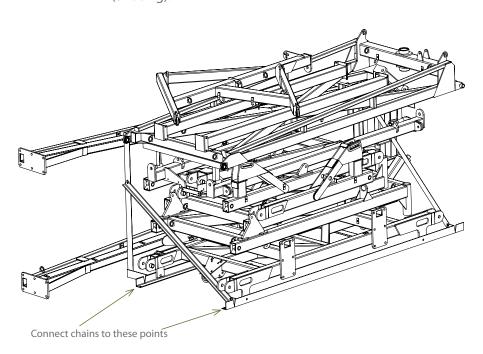
Before unloading any loads please inspect exterior for damage

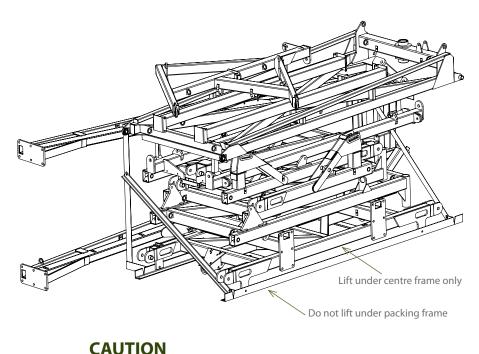


CAUTION

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

- Remove boxes from doorway of container one at a time using a forklift truck. Each box weighs approximately 2600 lbs (1200kg)
- Check strapping on each bundle before attempting to remove
- Attach chains to the packing frame using shackles and using suitable equipment (eg. fork-lift or tractor) drag framework bundles out of container. To move bundles away from front of container lift from side with forklift. Do not lift under angle iron frame, lift only under centre frame. Each bundle weighs approximately 7000 lb (3200 kg).









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



CAUTION

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



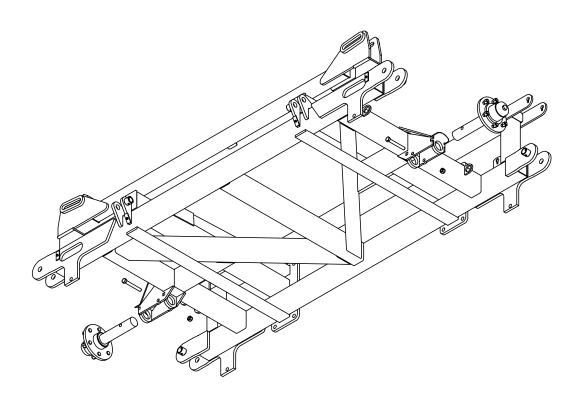
CAUTION

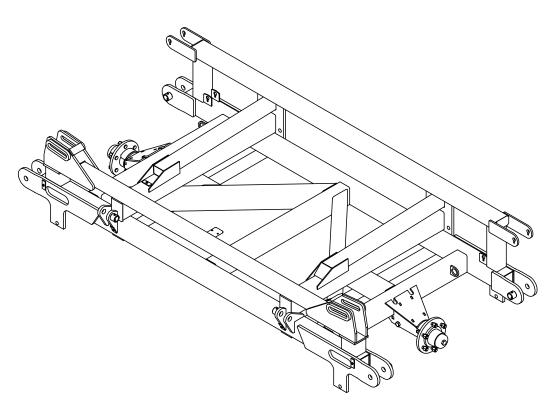
To avoid falling or moving components, before cutting straps attach slings or chains to individual pieces and only cut the straps holding the piece to be lifted.

- Remove boxes from rear of container one at a time using a forklift truck. Each box weighs approximately 2600 lbs (1200 kg)
- Cut straps holding bundles and separate parts and place in assembly area
- Once all parts have been identified machines are ready for assembly
- Identify parts for each machine by serial no. or description and separate. Open parts box and check that all parts are accounted for against checklist
- · Read assembly instructions before proceeding.

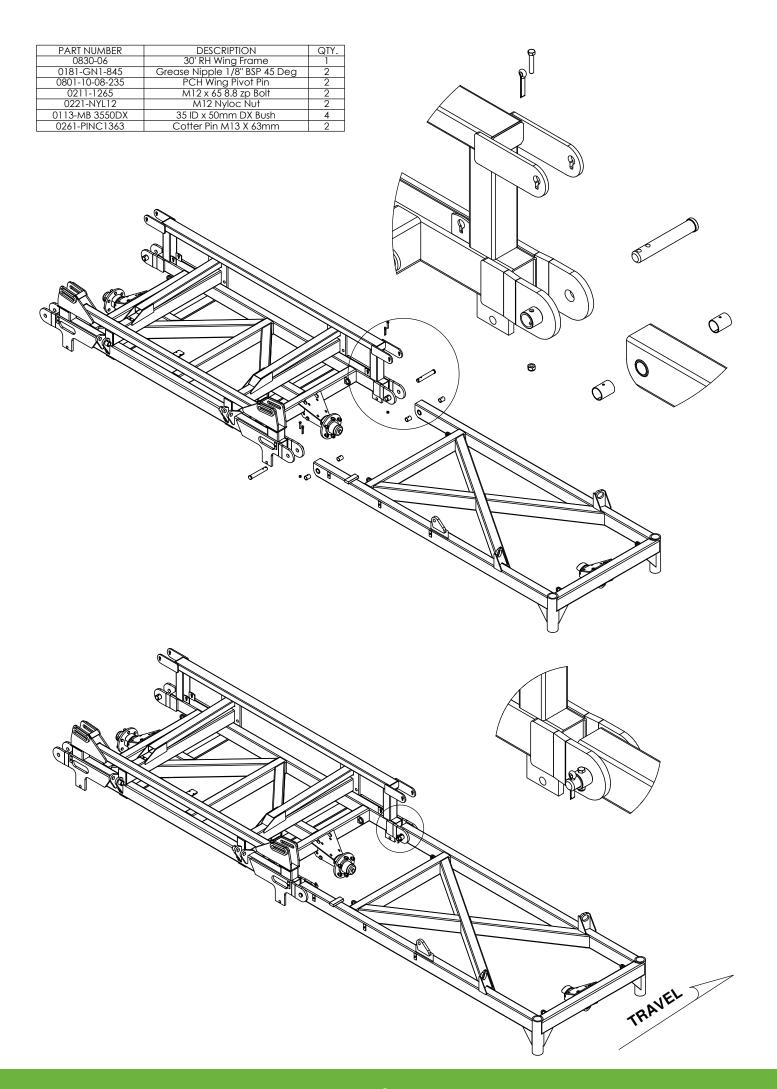
Section 2 Parts

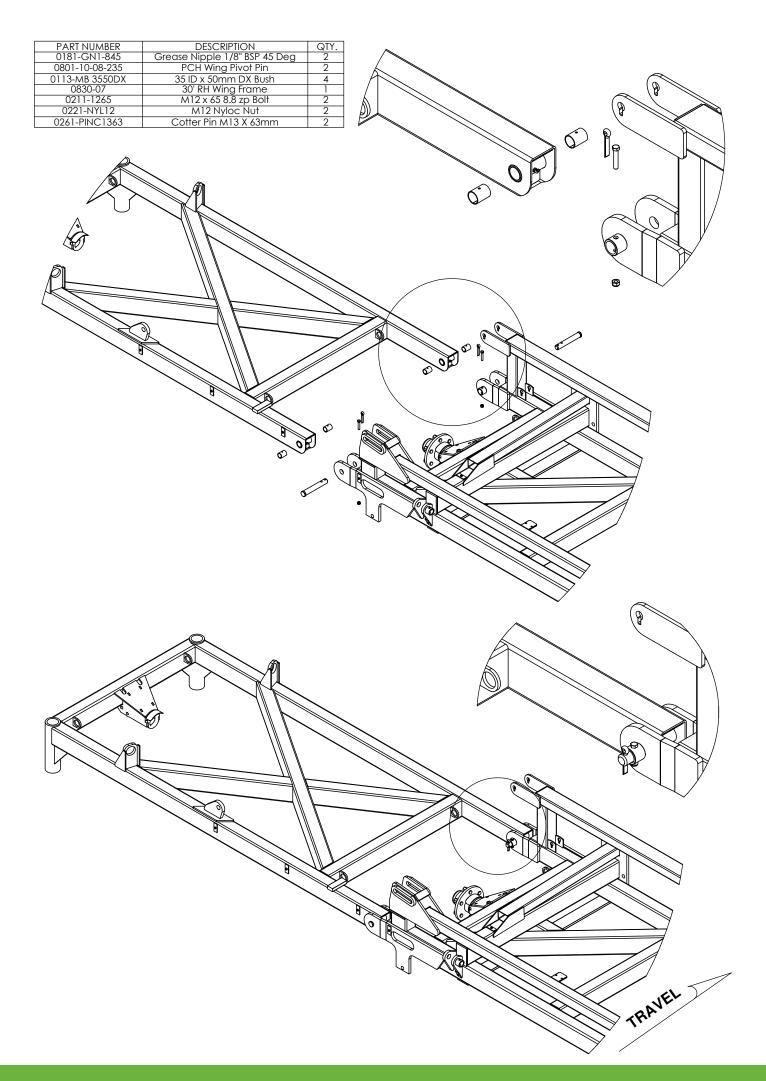
PART NUMBER	DESCRIPTION	QTY.
0830-01	30' Centre Frame	1
0733-SH275966205	2.75"R 6 Tonne 8 on 8' PCD Hub Complete	2
0211-20150	M20 x 150 8.8 zp Bolt	2
0221-NYL20	M20 Nyloc Nut	2



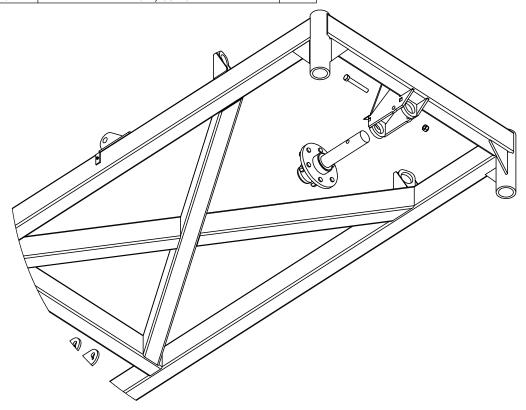


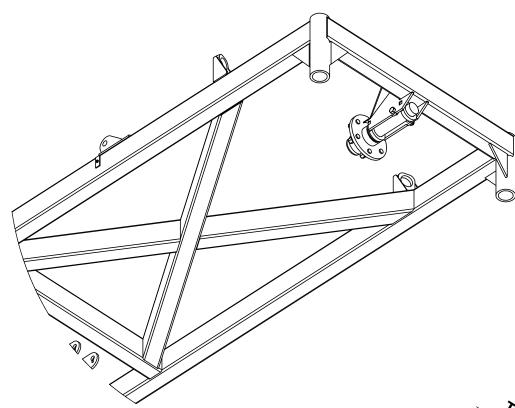
TRAVEL





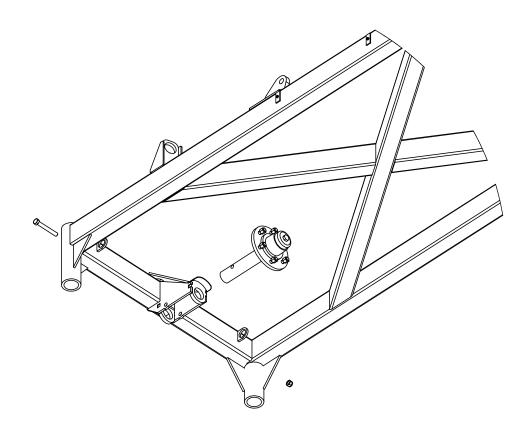
	PART NUMBER	DESCRIPTION	QTY.
ſ	0733-SH275966205	2.75"R 6 Tonne on 205mm PCD Hub Complete	1
Ī	0211-20150	M20 x 150 8.8 zp Bolt	1
Ī	0221-NYL20	M20 Nvloc Nut	1

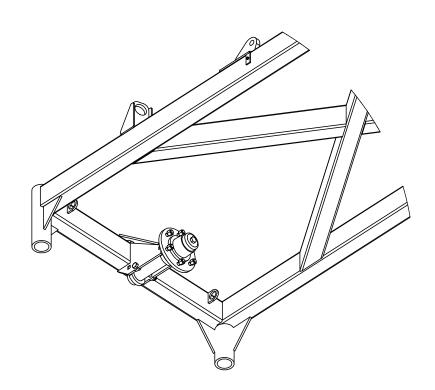




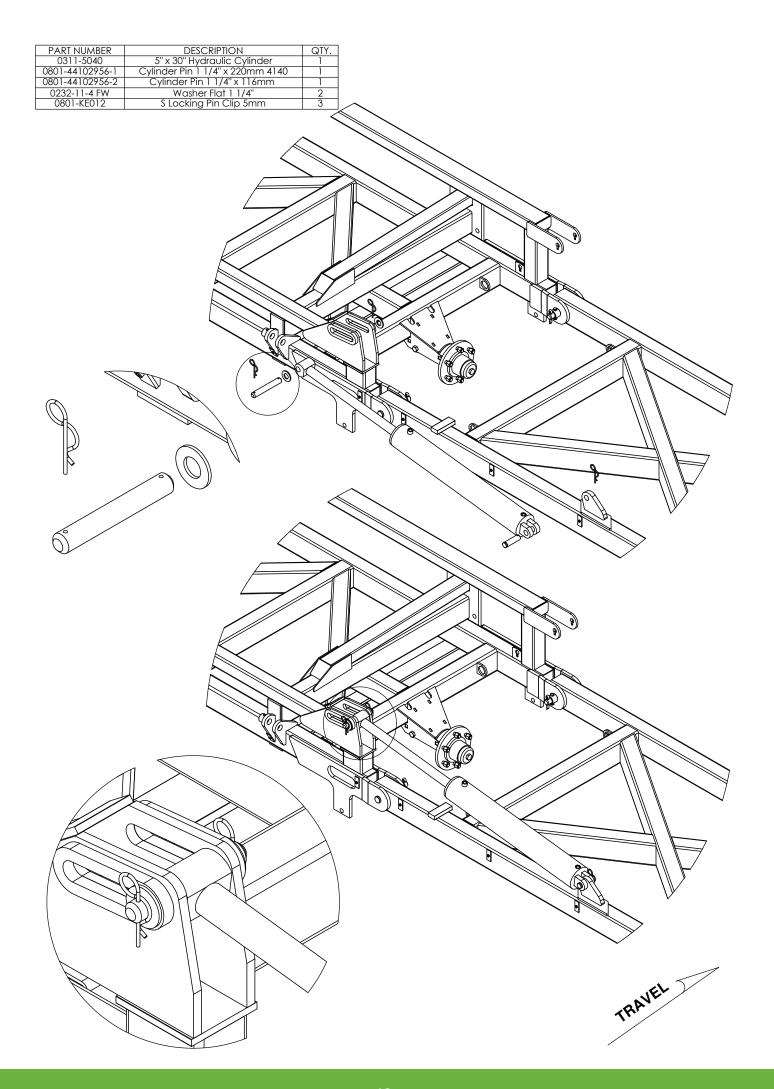
TRAVEL

PART NUMBER	DESCRIPTION	QTY.
0733-SH275966205	2.75"R 6 Tonne on 205mm PCD Hub Complete	1
0211-20150	M20 x 150 8.8 zp Bolt	1
0221-NYL20	M20 Nyloc Nut	1



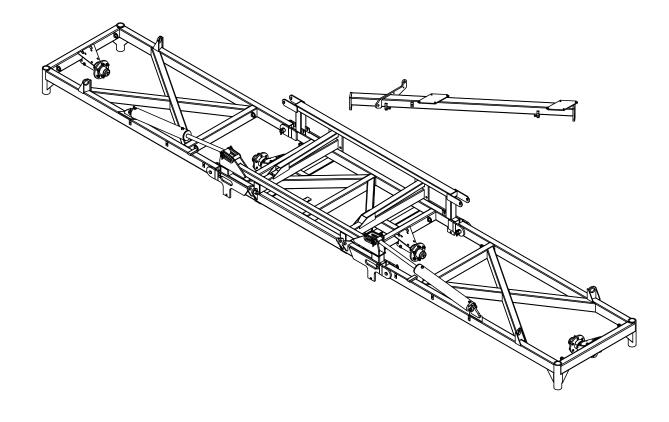


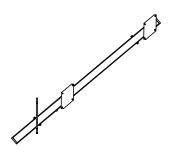


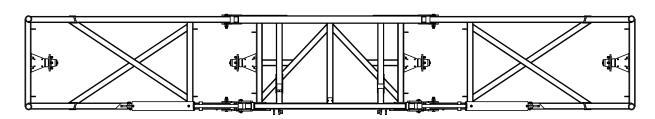


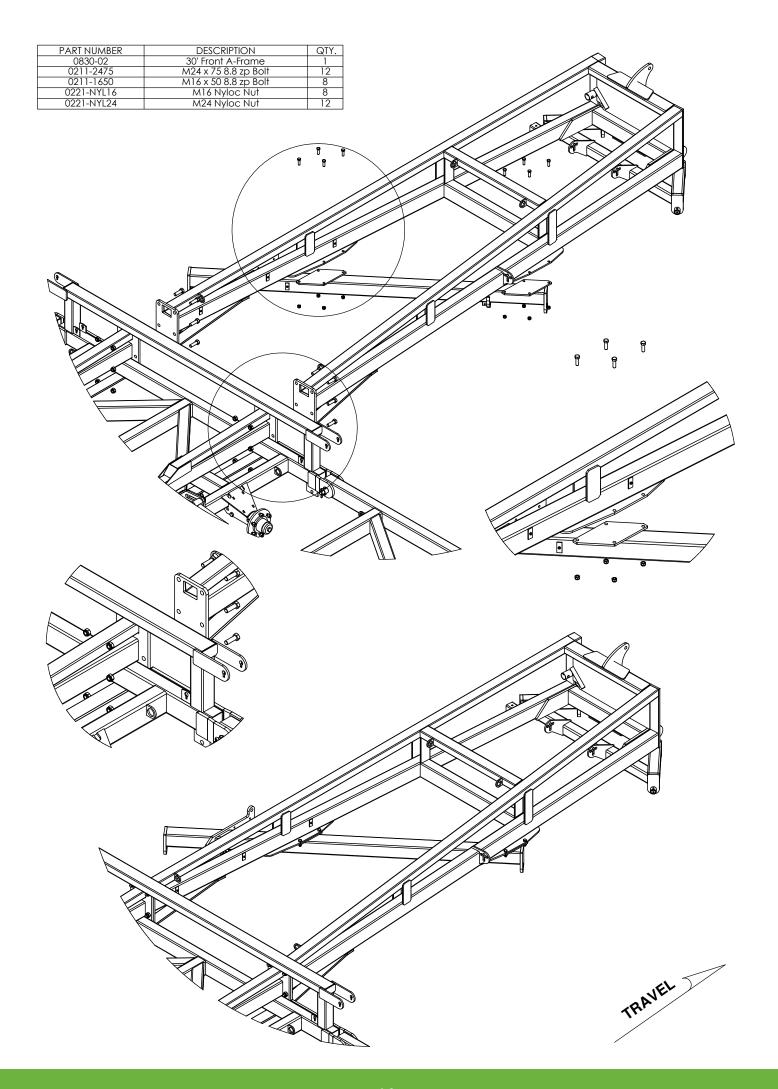
PART NUMBER DESCRIPTION QT 0311-5040 5" x 30" Hydraulic Cylinder 1 0801-44102956-1 Cylinder Pin 1 1/4" x 220mm 4140 1 0801-44102956-2 Cylinder Pin 1 1/4" x 116mm 1 0232-11-4 FW Washer Flat 1 1/4" 2 0801-KE012 S Locking Pin Clip 5mm 3	
	TRAVEL

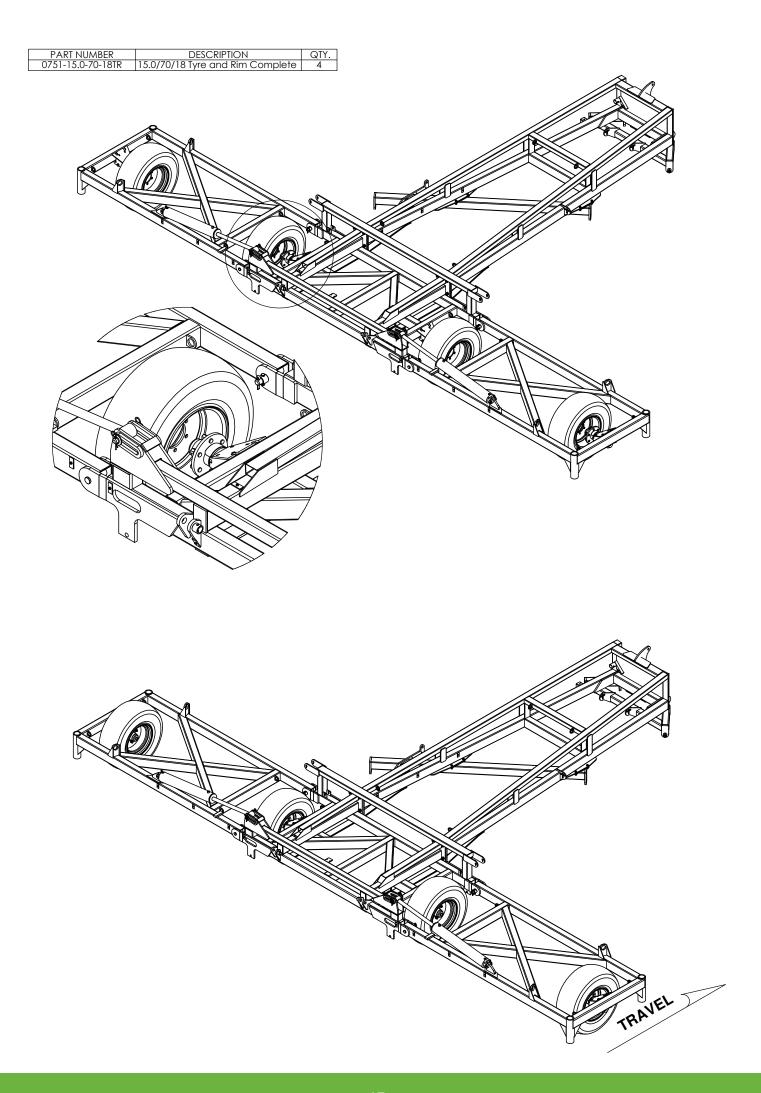
PART NUMBER	DESCRIPTION	QTY.
0810-28-30	30' Front Module	1

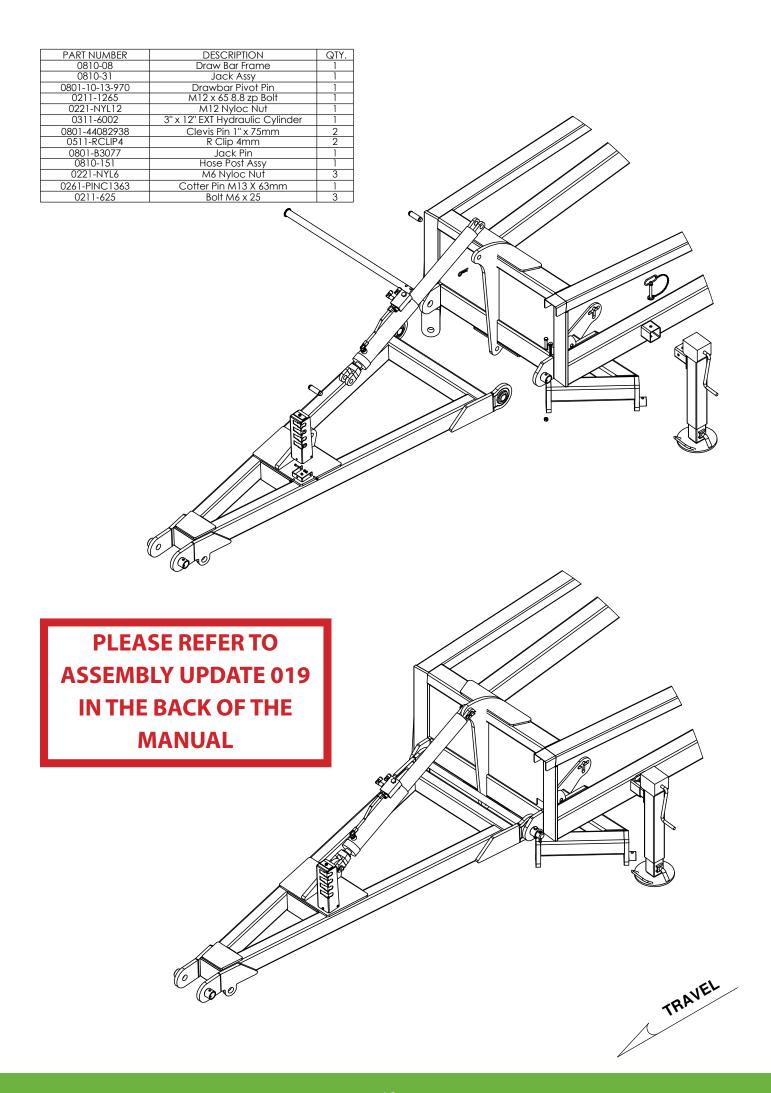




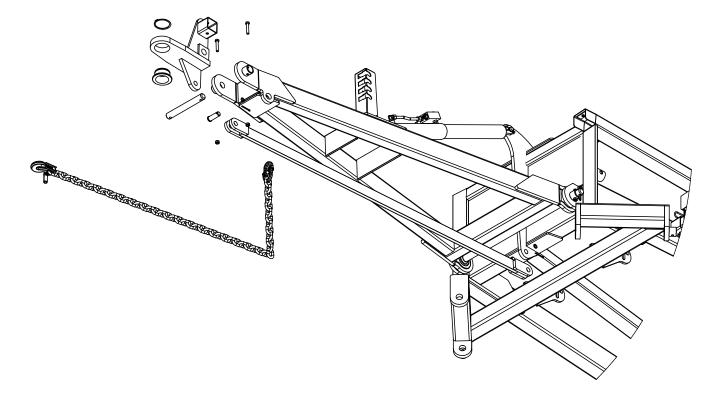


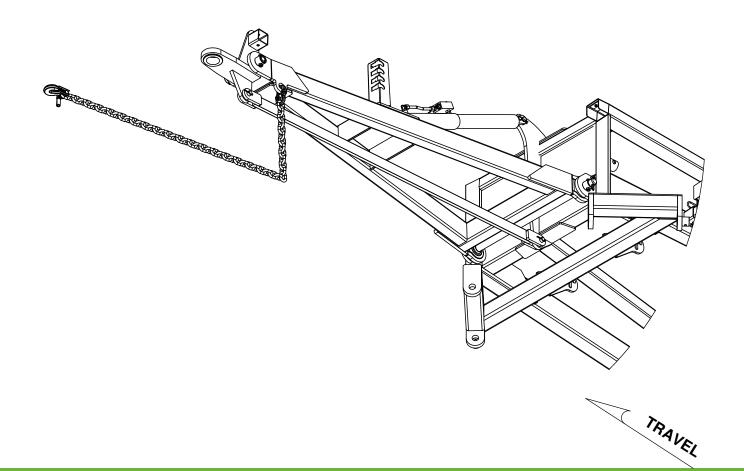


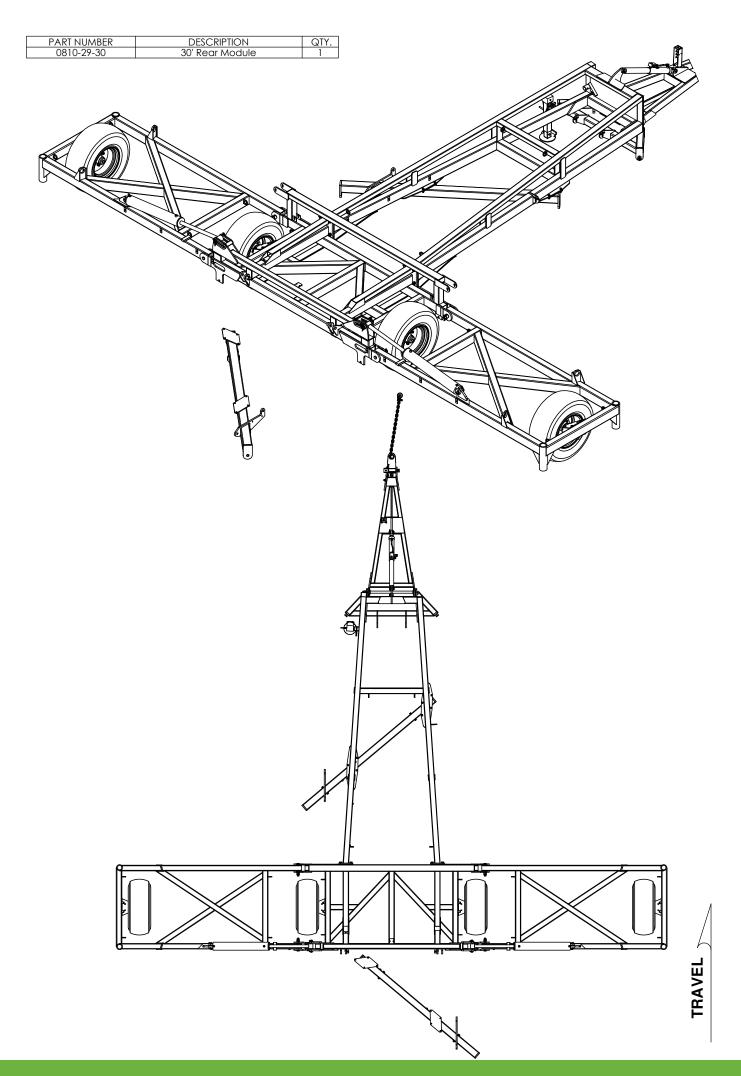


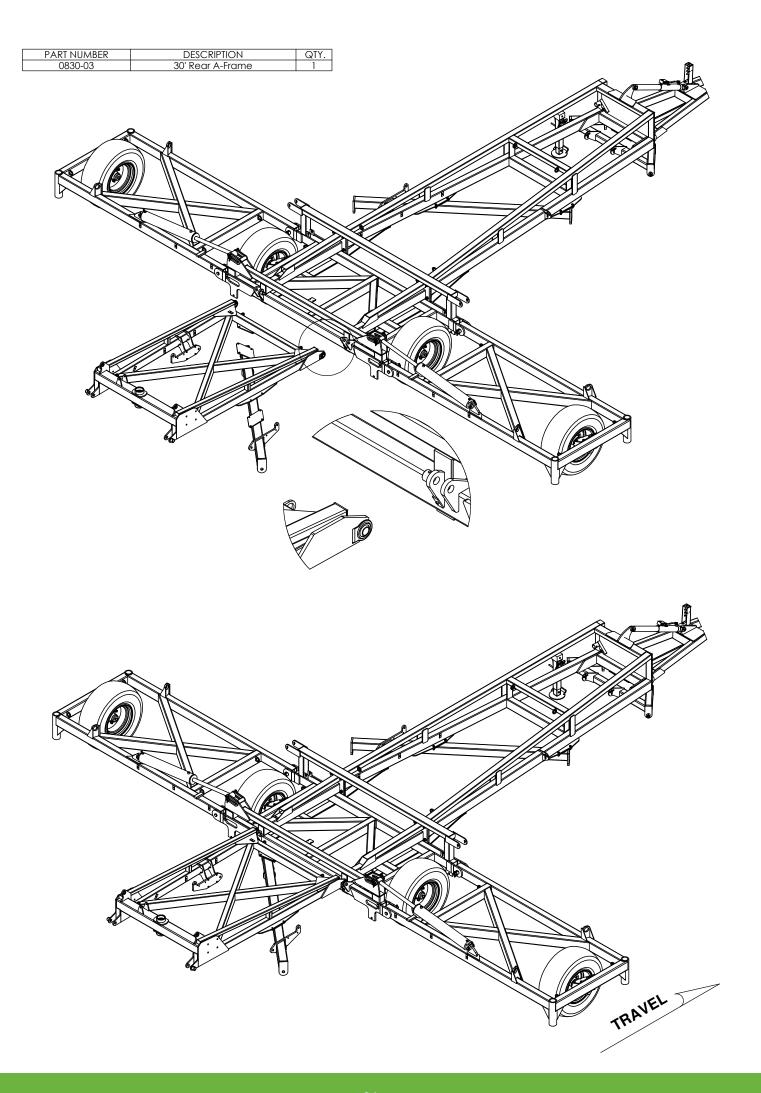


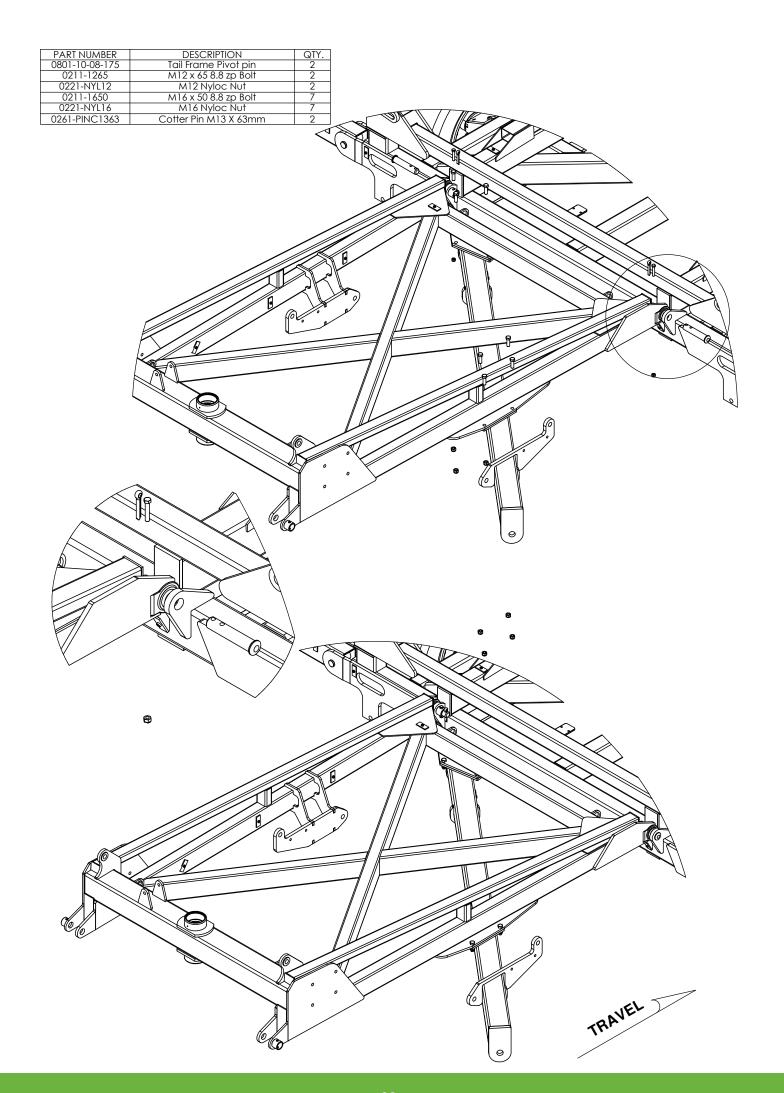
PART NUMBER	DESCRIPTION	QTY.
0810-09	Tow Hitch	1
0810-22	Parrallel Arm	1
0801-KE-0905-1-C	Hardened Tow Hitch Bush 2 1/4"	1
0801-10-06	Tow Hitch Pin	1
0801-KE-0307-1	Clevis Pin 25mm x 75mm	2
0231-F12	M12 zp Flat Washer	2
0211-1265	M12 x 65 8.8 zp Bolt	2
0221-NYL12	M12 Nyloc Nut	2
0810-16	Safety Chain Assembly	1
0261-PINC550	Cotter Pin M5 x 50	2
0172-D1400-0820	Circlip External 82mm	1





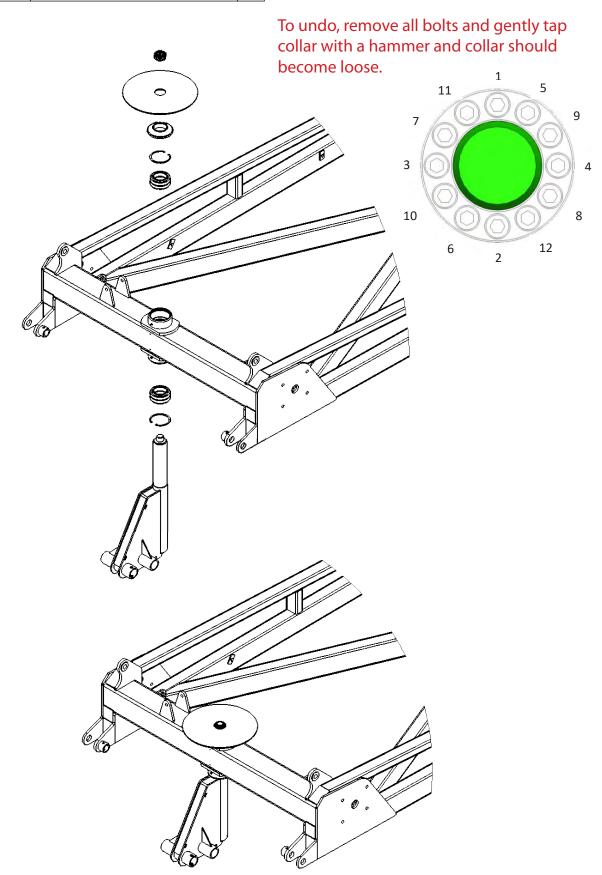




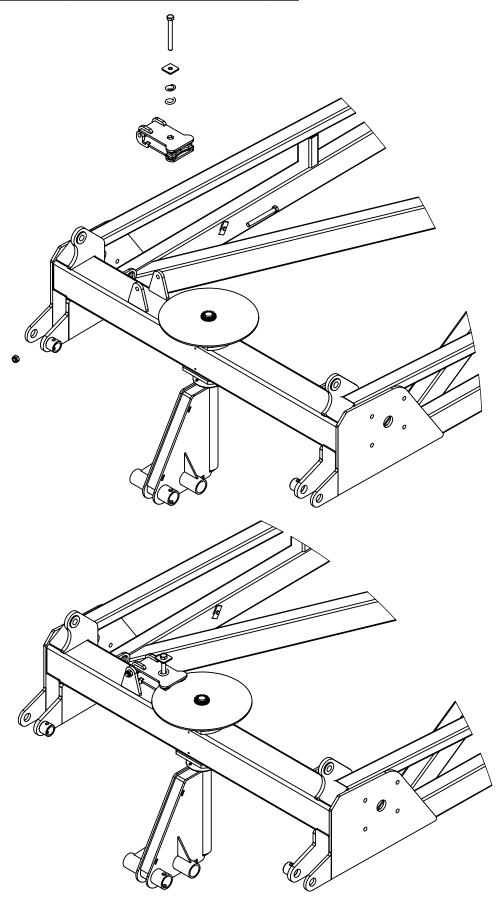


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0113-GE70DO-2RS	Plain Spherical Bearing 70mm	2
2	0171-J105	Circlip Internal 105mm	2
3	0181-GN1-4	Grease Nipple 1/4" UNF	2
4	0800-02.1	Brake Disc	1
5	0801-KE0705-13	70mm Polymer dust cap	1
6	0801-LOCK01-35	35mm Shaft Lock Clamping Element 01	1
7	0810-11-70	70mm Jockey Wheel	1

Tighten in a cross pattern, Bring all bolts up equally to 17Nm (12.54 Ft/Lbs) (caution if a single bolt is done up to tension there is a risk of the bolt breaking).

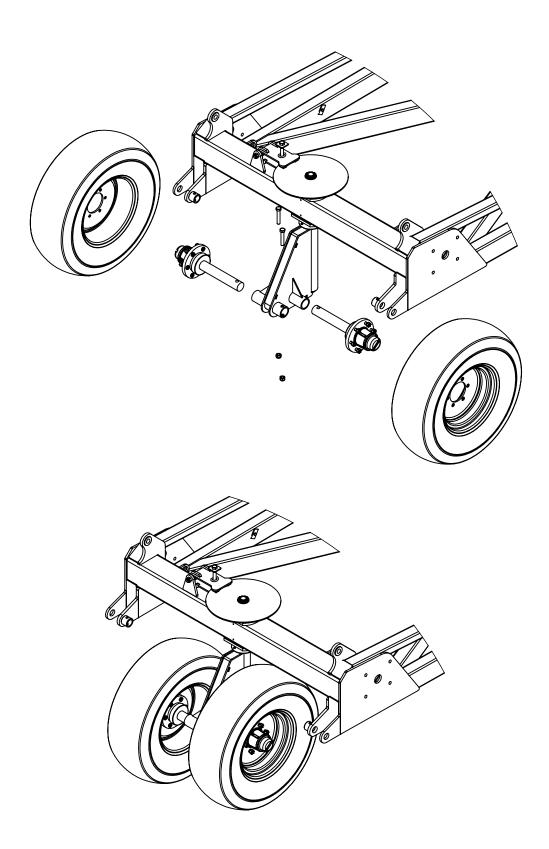


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0211-16150	M16 x 150 grade 8.8 zp Bolt	2
2	0221-NYL16	Nyloc Nut M16	1
3	0231-SQ16505	Washer Square M16 x 50 x 5	1
4	0801-KE009	Brake Compression Spring	1
5	0810-12CAL	Jockey Wheel Brake Caliper	1

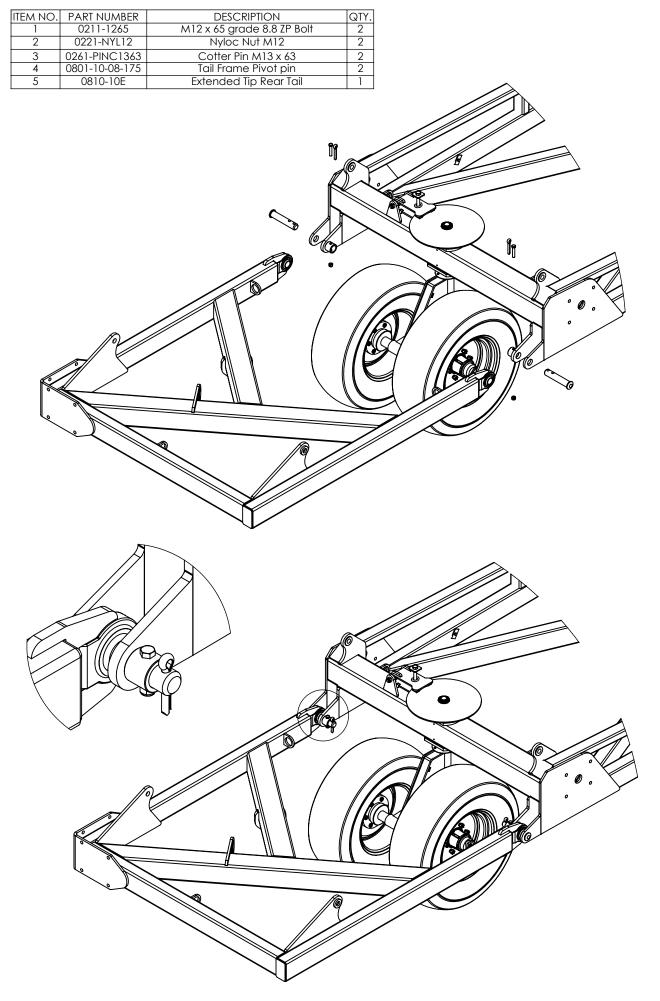




ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0211-1690	M16 x 90 grade 8.8 zp Bolt	2
2	0221-NYL16	Nyloc Nut M16	2
3	0733-K5083T66S	Axle 2"R 3T 6 on 6" PCD 330 OHF	2
4	0751-11L15	11L15 F3 Tyre on 6 on 6" Stud Rim	2

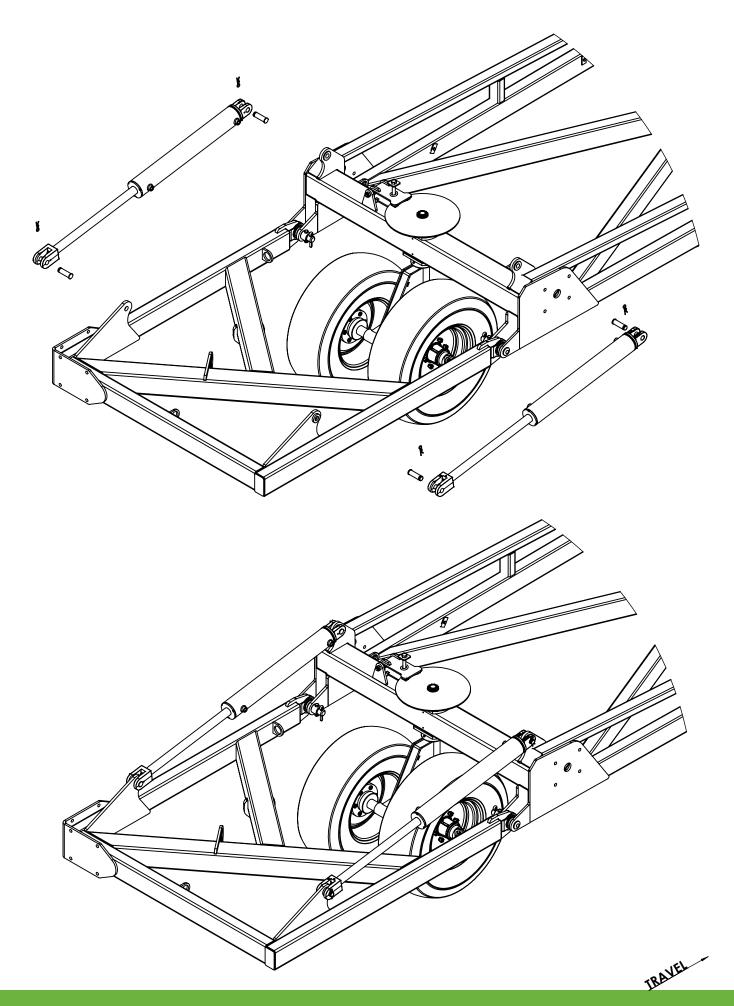




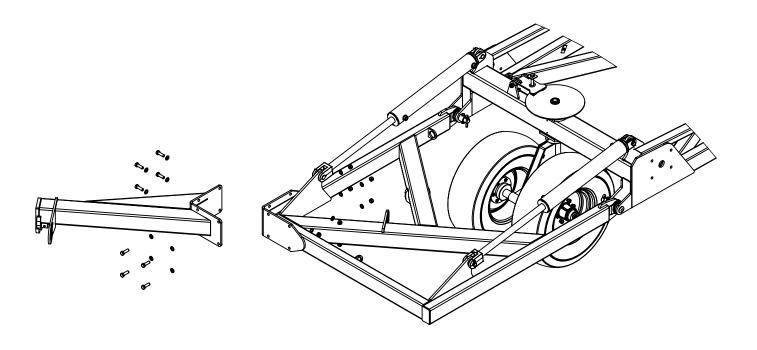


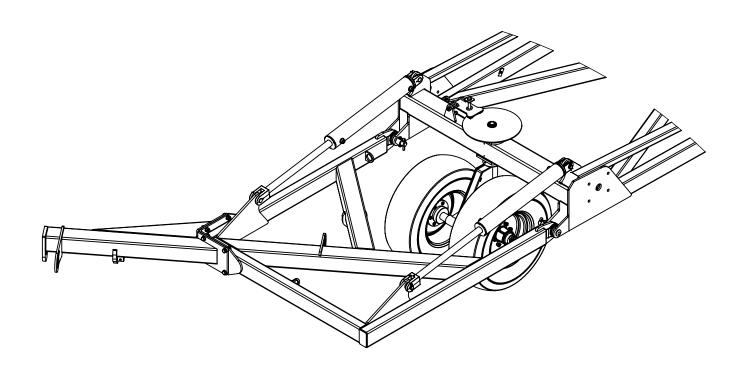


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0311-3524SP	3.5" Bore 24" Stroke 1.75" Rod Hydraulic Cylinder	2



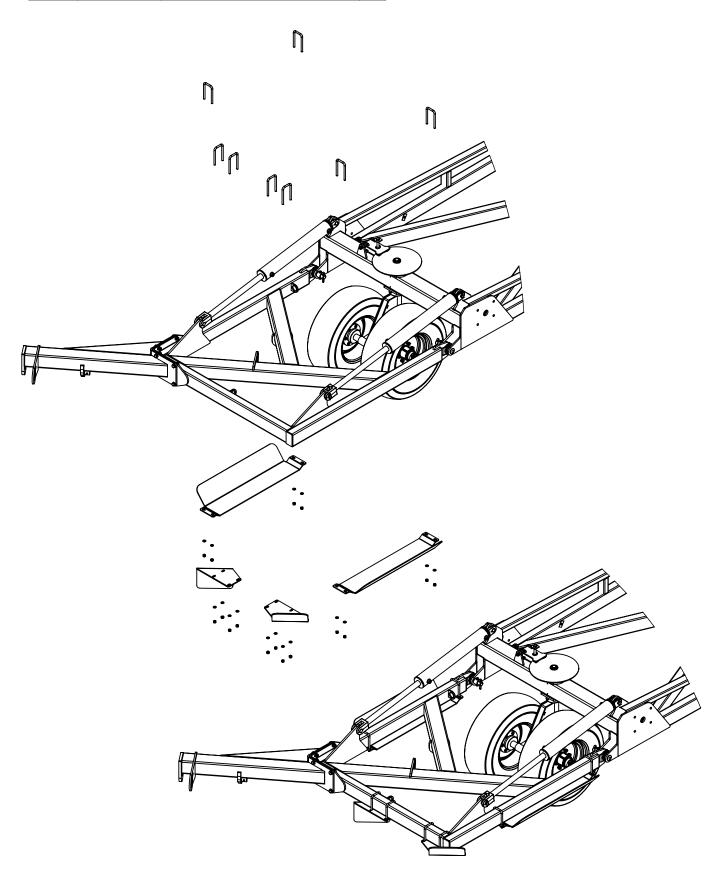
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0211-1650	M16 x 50 grade 8.8 zp Bolt	8
2	0221-NYL16	Nyloc Nut M16	8
3	0231-F16	Washer Flat M16	16
4	0810-10ET	Extended Tip Tail Bolt On Tip	1





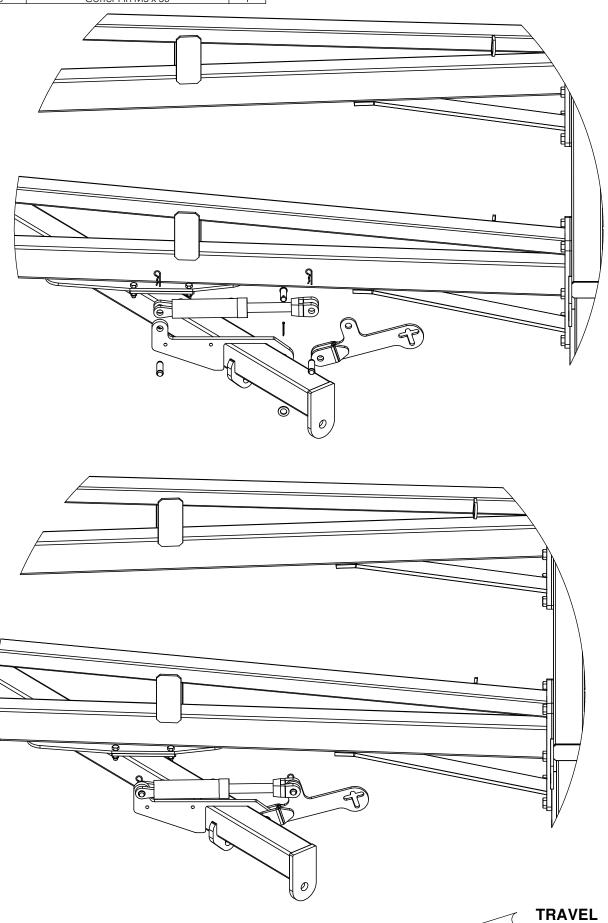
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0221-NYL12	Nyloc Nut M12	16
2	0231-F12	Washer Flat M12	16
3	0271-1215577	U-Bolt M12 x 155 Deep x 77 Wide	8
4	0800-220.1	Tail Chain Stop Guard	1
5	0800-235	Rear Tail Guard	2
6	0800-498	Angled Chain Gaurd	1

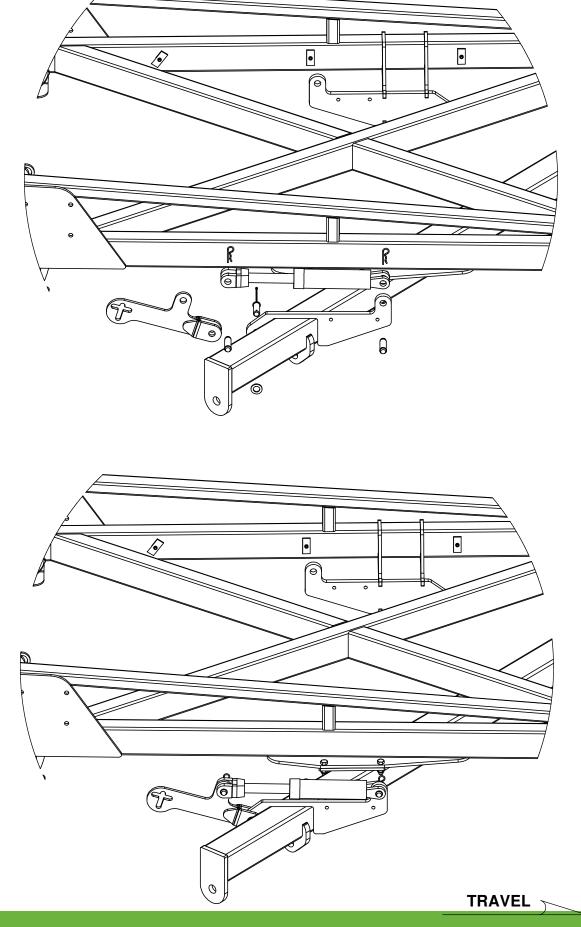


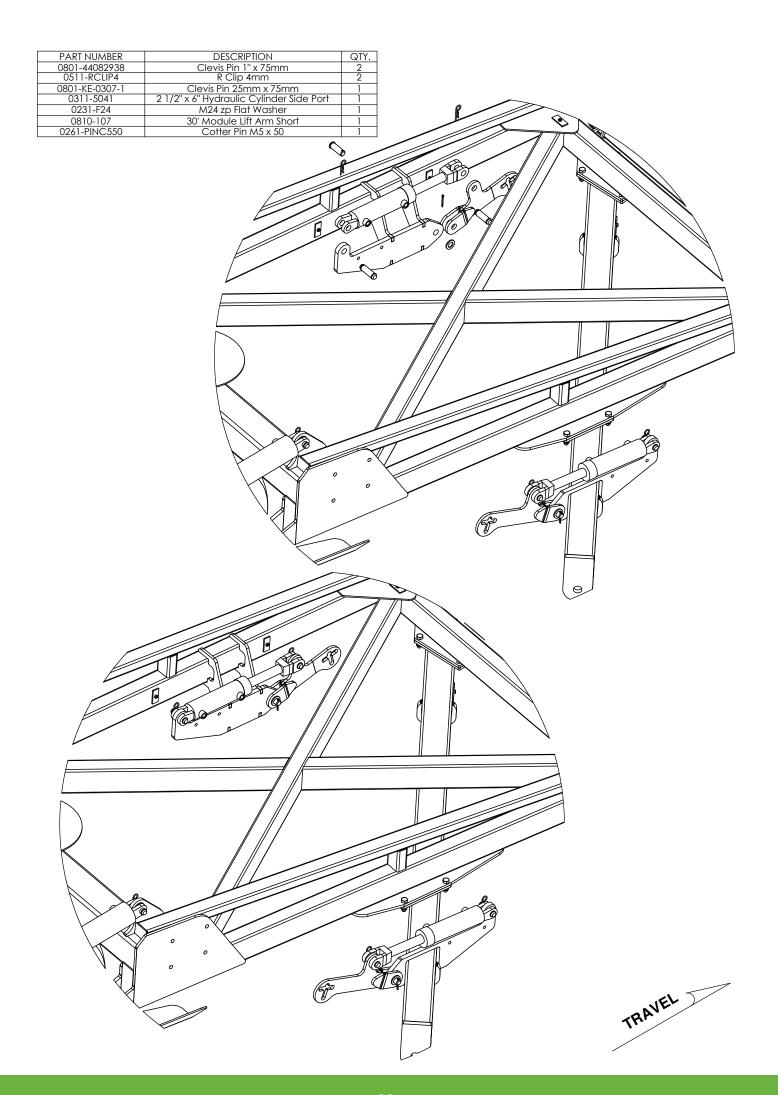


PART NUMBER	DESCRIPTION	QTY.
0801-44082938	Clevis Pin 1" x 75mm	2
0511-RCLIP4	R Clip 4mm	2
0801-KE-0307-1	Clevis Pin 25mm x 75mm	1
0810-106	30' Module Lift Arm	1
0231-F24	M24 zp Flat Washer	1
0311-5041	2 1/2" x 6" Hydraulic Cylinder Side Port	1
0261-PINC.550	Cotter Pin M5 x 50	1



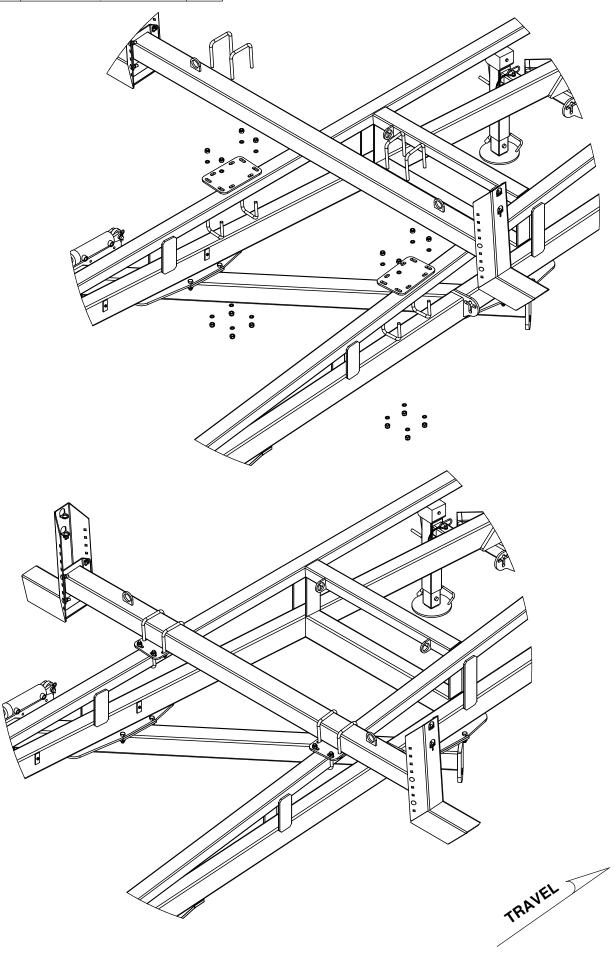
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0801-44082938	Clevis Pin 1" x 75mm	2
0511-RCLIP4	R Clip 4mm	2
0801-KE-0307-1	Clevis Pin 25mm x 75mm	1
0810-106	30' Module Lift Arm	1
0311-5041	2 1/2" x 6" Hydraulic Cylinder Side Port	1
0231-F24	M24 zp Flat Washer	1
0261-PINC.550	Cotter Pin M5 x 50	1

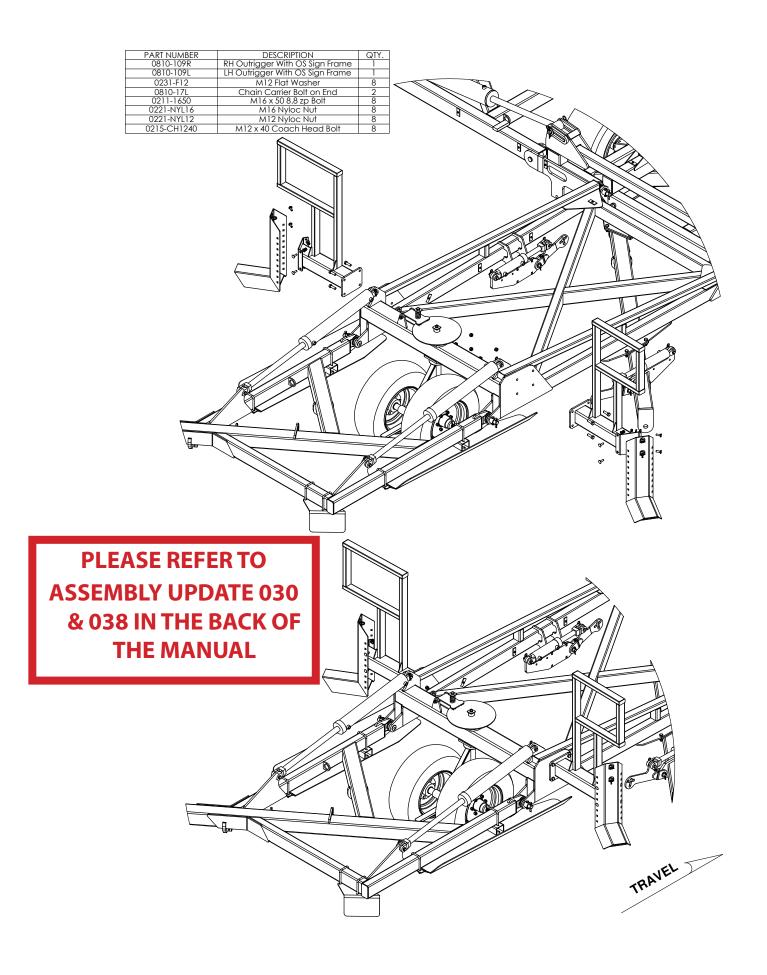


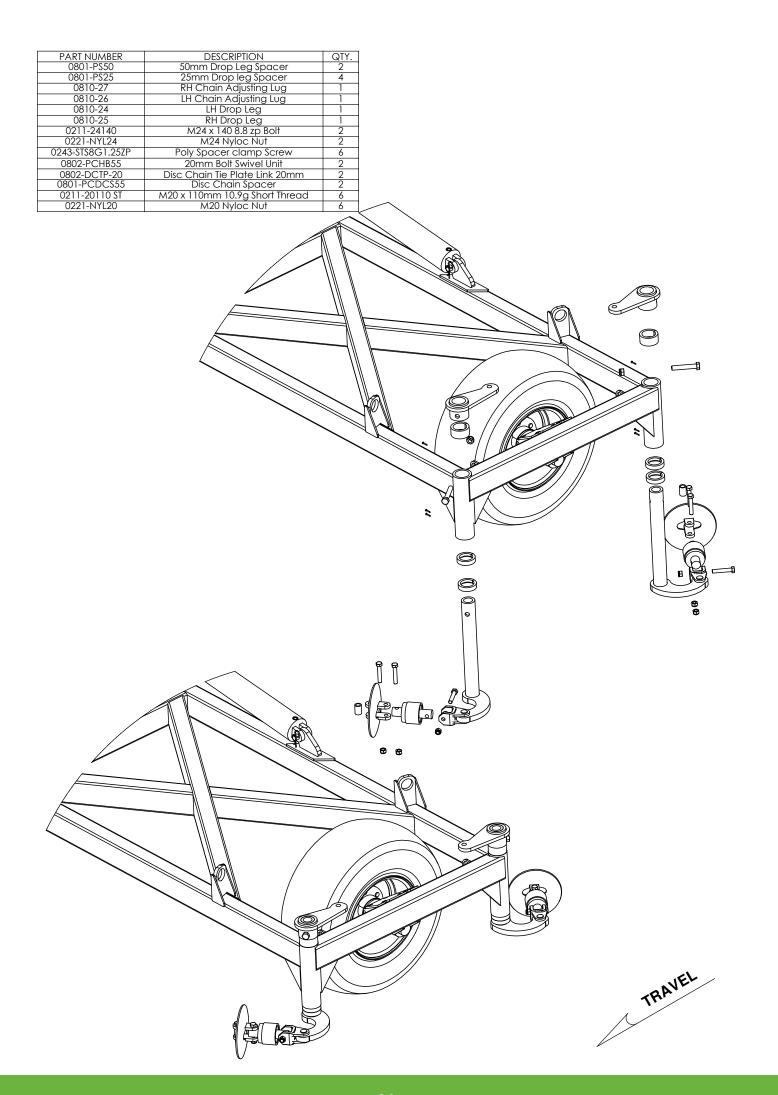


PART NUMBER DESCRIPTION QTY. 0231-F12 M12 Flat Washer 8 0221-NYL12 M12 Nyloc Nut 8 0810-17L Chain Carrier Bolt on End 2 0810-17-30 30' Chain Carrier Beam 1 0215-CH1240 M12 x 40 Coach Head Bolt 8	
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	TRAVEL

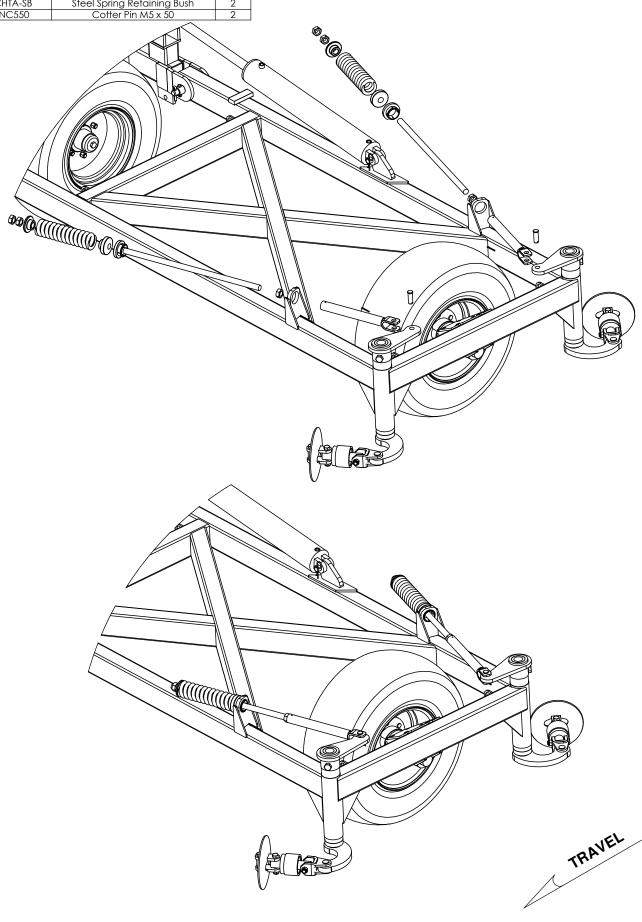
PART NUMBER	DESCRIPTION	QTY.
0800-139.1	Chain Carrier Mount Plate	2
0271-16112104	U-Bolt M16 x 112 x 104	4
0271-16160127	U-Bolt M16 x 160 x 127	4
0231-F12	M12 zp Flat Washer	16
0221-NYL16	M16 Nyloc Nut	16

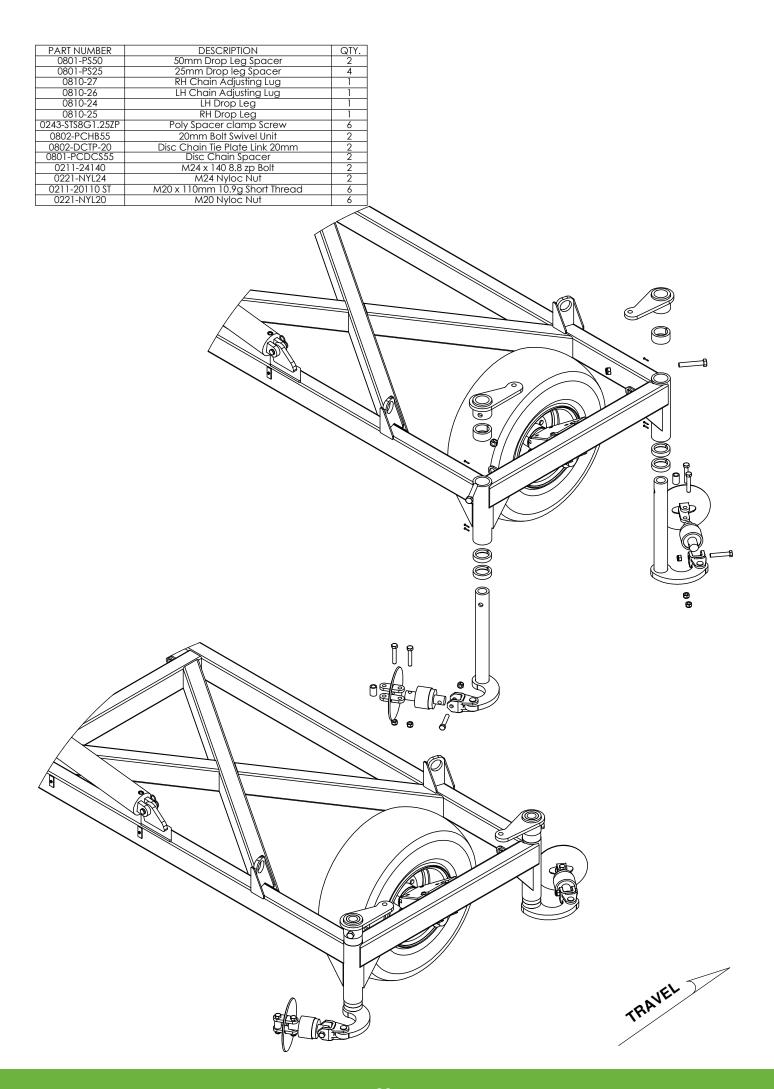




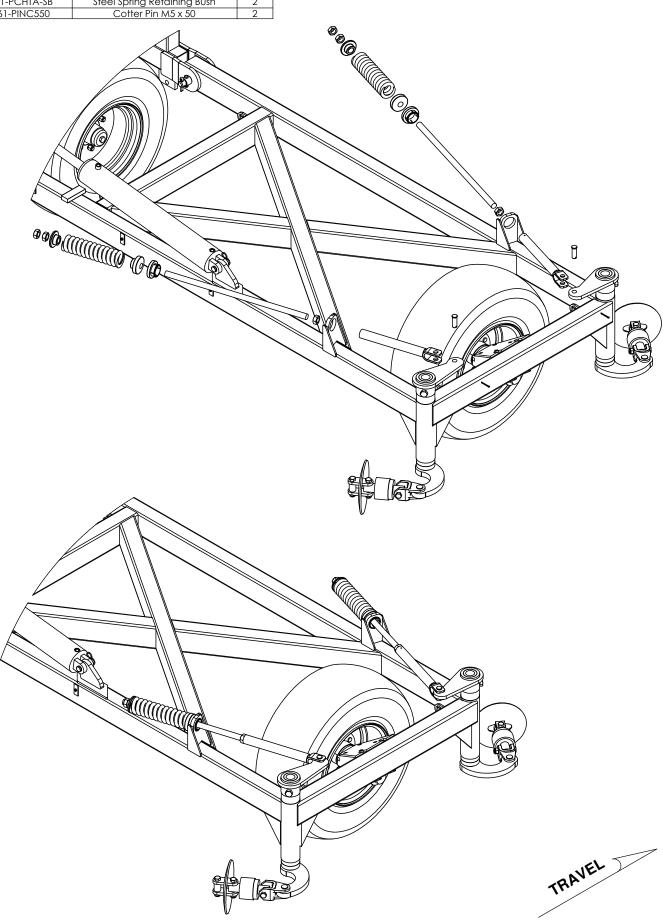


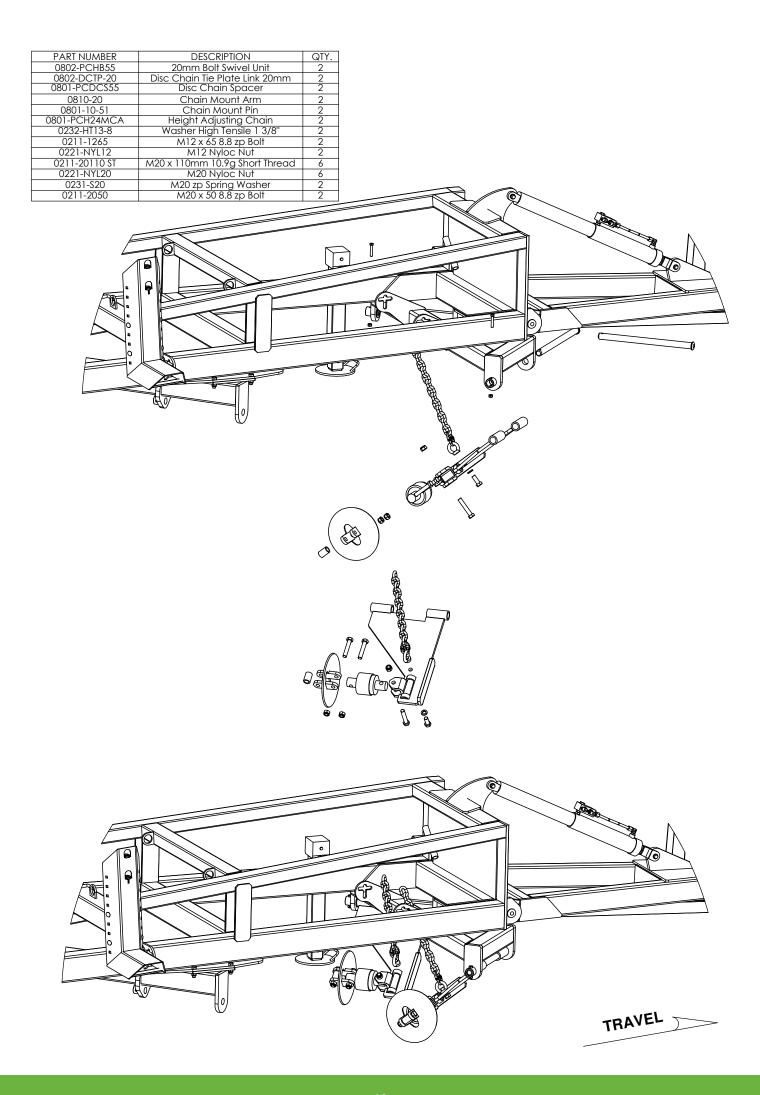
PART NUMBER	DESCRIPTION	QTY.
0801-KE-0307-1	Clevis Pin 25mm x 75mm	2
0801-XK9261S	20mm Compression Spring	2
0801-KE0805-3	Tensioner Cup Male	2
0801-KE0805-4	Tensioner Cup Female	2
0801-PCHTA-B6	6tpi 1.25" Tension Bolt	2
0801-PCHTA-BC	Tension Assembly Body	2
0801-PCHTA-N6	6tpi Lock Nut	6
0801-PCHTA-SB	Steel Spring Retaining Bush	2
0261-PINC550	Cotter Pin M5 x 50	2
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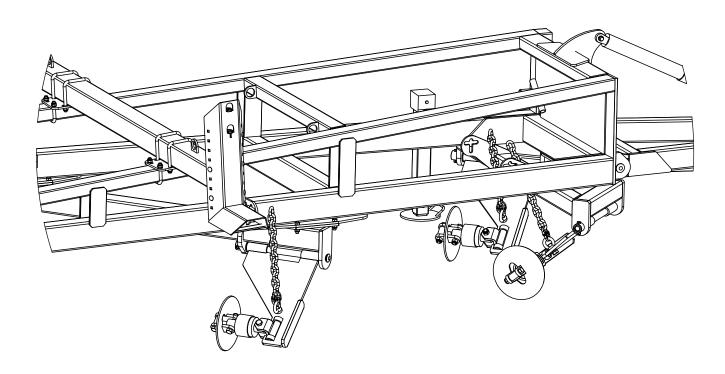


PART NUMBER	PART NUMBER DESCRIPTION	
0801-KE-0307-1	Clevis Pin 25mm x 75mm	2
0801-XK9261S	20mm Compression Spring	2
0801-KE0805-3	Tensioner Cup Male	2
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0801-PCHTA-B6	6tpi 1.25" Tension Bolt	2
0801-PCHTA-BC	Tension Assembly Body	2
0801-PCHTA-N6	6tpi Lock Nut	6
0801-PCHTA-SB	Steel Spring Retaining Bush	2
0261-PINC550	Cotter Pin M5 x 50	2

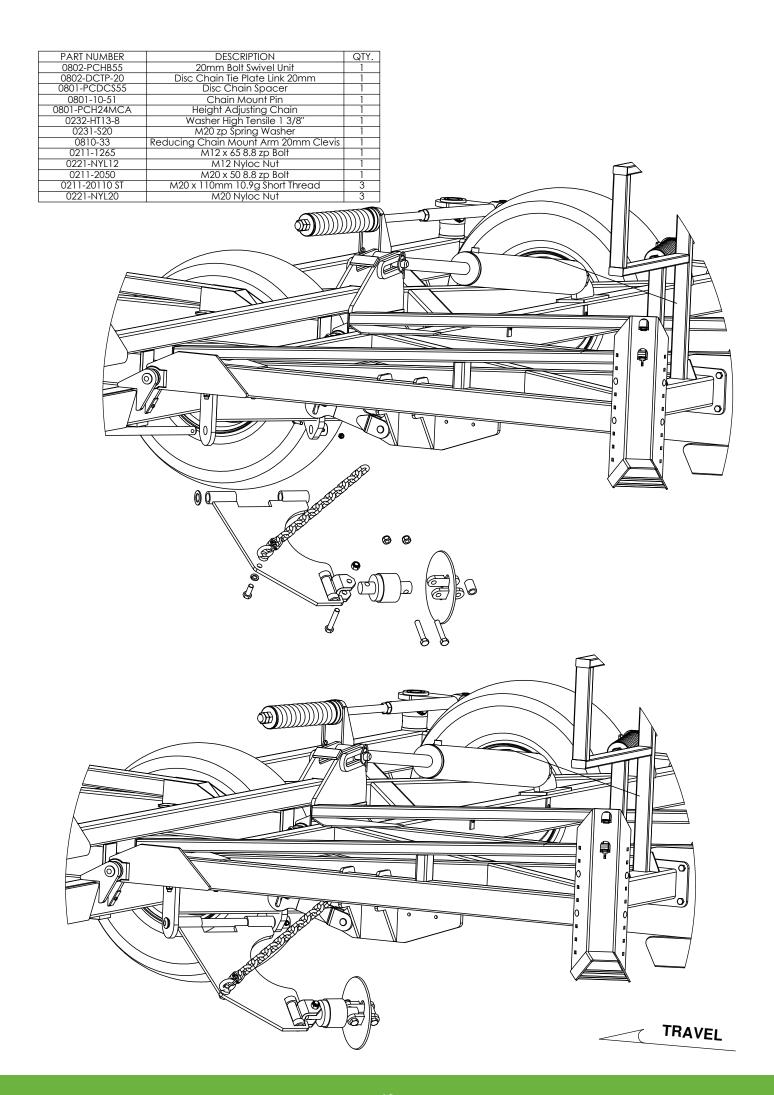


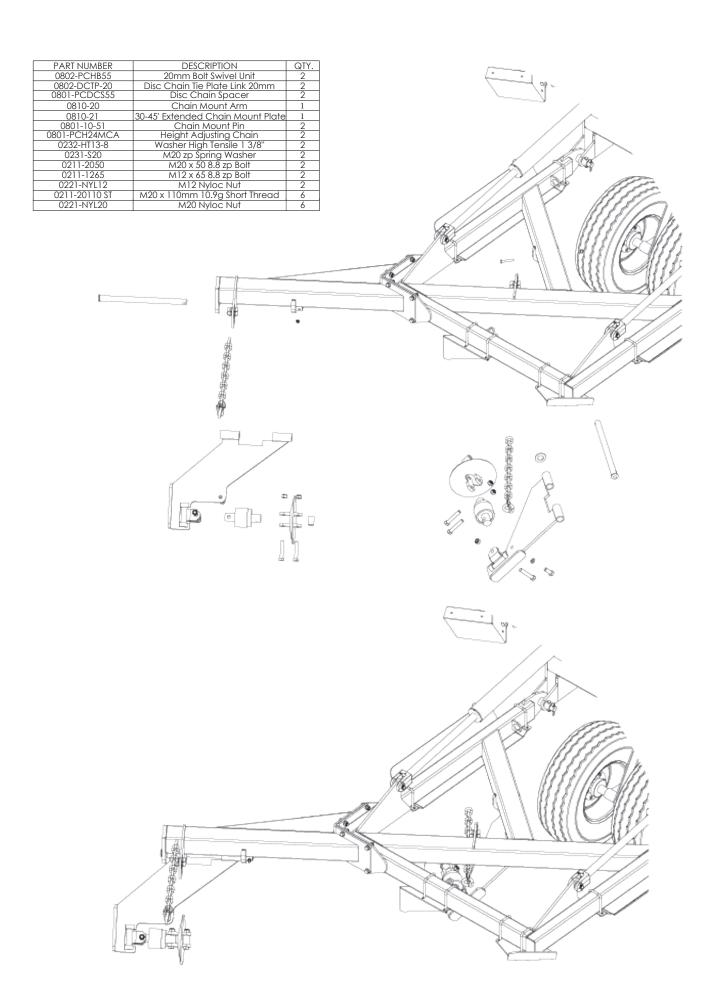


PART NUMBER	DESCRIPTION	QTY.
0802-PCHB55	20mm Bolt Swivel Unit	
0802-DCTP-20	Disc Chain Tie Plate Link 20mm	
0801-PCDCS55	Disc Chain Spacer	
0810-20	Chain Mount Arm	1
0801-10-51	Chain Mount Pin	1
0801-PCH24MCA	Height Adjusting Chain	1
0232-HT13-8	Washer High Tensile 1 3/8"	
0231-S20	M20 zp Spring Washer	1
0211-1265	M12 x 65 8.8 zp Bolt	1
0221-NYL12	M12 Nyloc Nut	1
0211-20110 ST	M20 x 110mm 10.9g Short Thread	3
0221-NYL20	M20 Nyloc Nut	3
0211-2050	M20 x 50 8.8 zp Bolt	

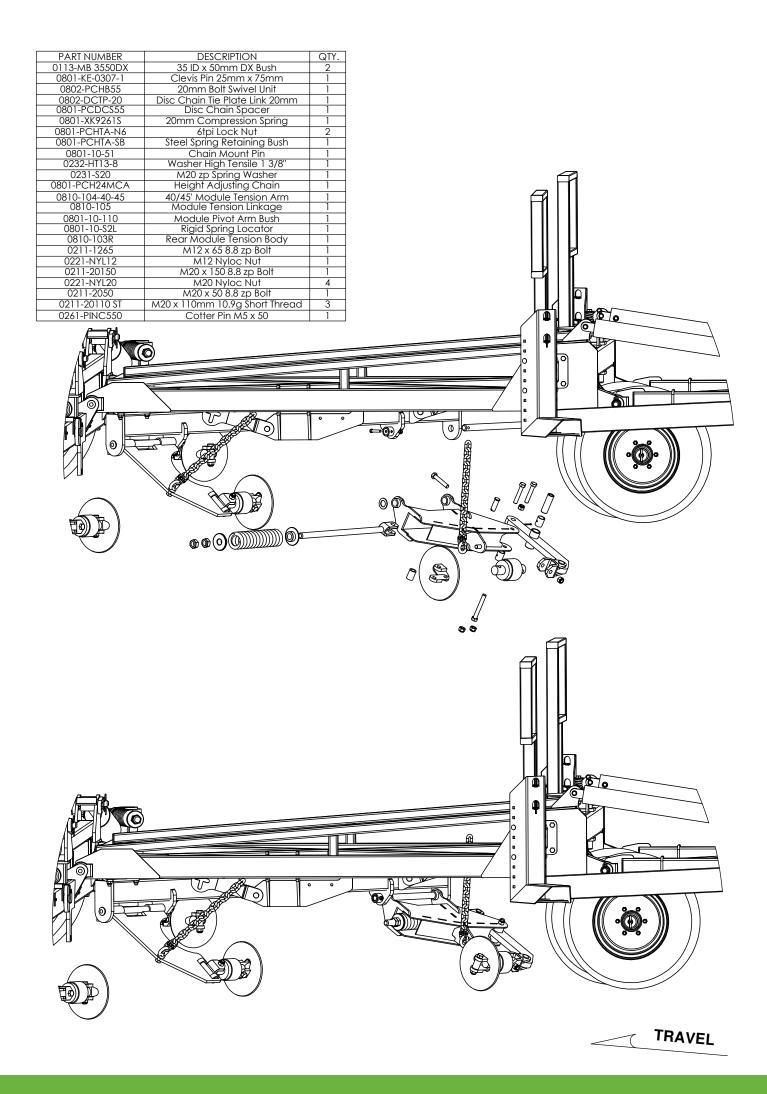




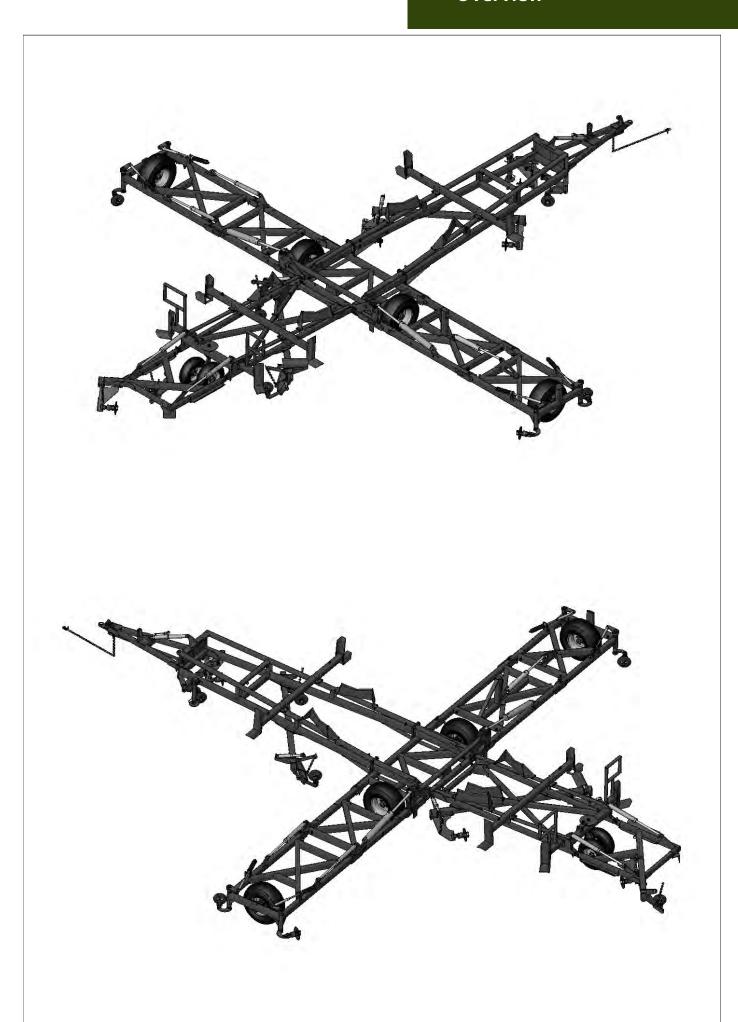


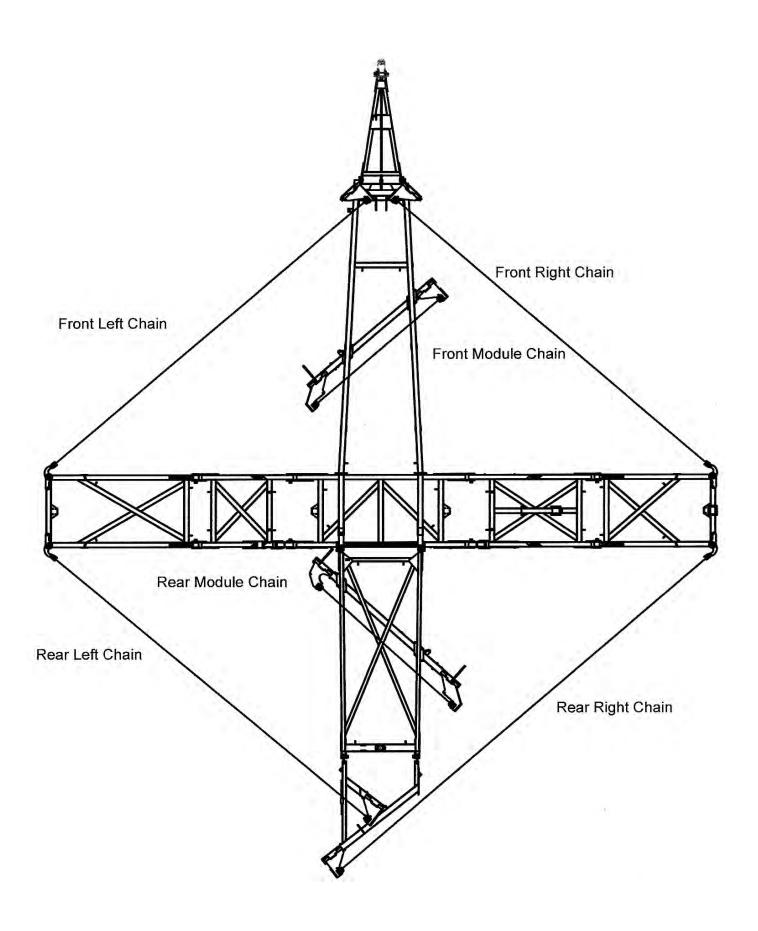


PART NUMBER	DESCRIPTION	QTY.
0113-MB 3550DX	35 ID x 50mm DX Bush	2
0801-KE-0307-1 0802-PCHB55	Clevis Pin 25mm x 75mm 20mm Bolt Swivel Unit	
0802-PCTP-20 0801-PCDCS55	Disc Chain Tie Plate Link 20mm	
0801-PCDCS55	Disc Chain Spacer	
0801-XK9261S 0801-PCHTA-N6	20mm Compression Spring 6tpi Lock Nut	
0801-PCHTA-SB	Steel Spring Retaining Bush	1
0801-10-51 0232-HT13-8	Chain Mount Pin	1
0232-H113-8 0231-\$20	Washer High Tensile 1 3/8" M20 zp Spring Washer	
0810-103F	Front Module Tension Body	
0211-1265	M12 x 65 8.8 zp Bolt	1
0221-NYL12 0801-PCH24MCA	M12 Nyloc Nut Height Adjusting Chain	
0810-104-40-45	40/45' Module Tension Arm	1
0810-105	Module Tension Linkage	
0801-10-110 0801-10-S2L	Module Pivot Arm Bush Rigid Spring Locator	
0211-20110 ST	Rigid Spring Locator M20 x 110mm 10.9g Short Thread	3
0221-NYL20	M20 Nyloc Nut	1
0211-2050 0211-20150	M20 x 50 8.8 zp Bolt M20 x 150 8.8 zp Bolt	
0261-PINC550	Cotter Pin M5 x 50	1
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Section 3Diagrams and Charts



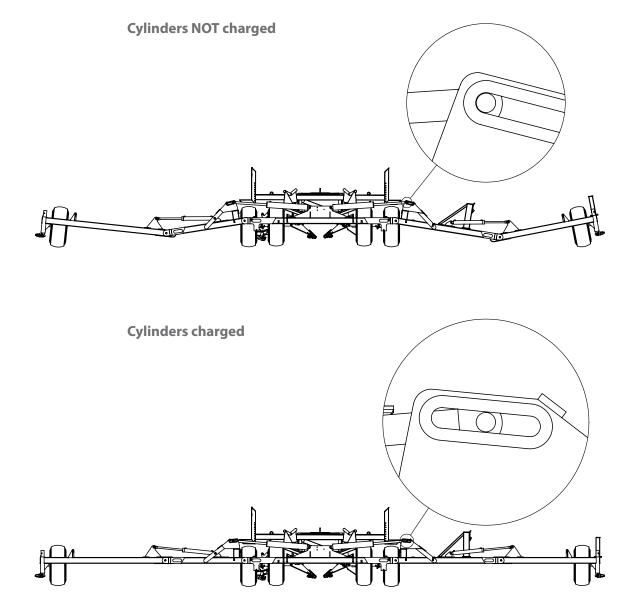




Before folding the machine for the first time, ensure all hydraulic cylinders are charged with oil.

To do this, run the hydraulics through the unfold sequence until the outer wings are straight and the centre cylinders are centred 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 Fitting Identification



















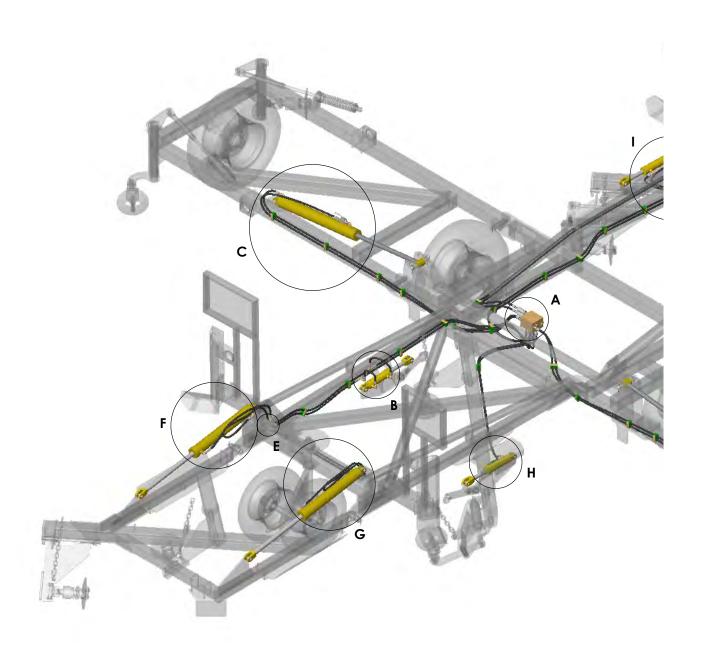


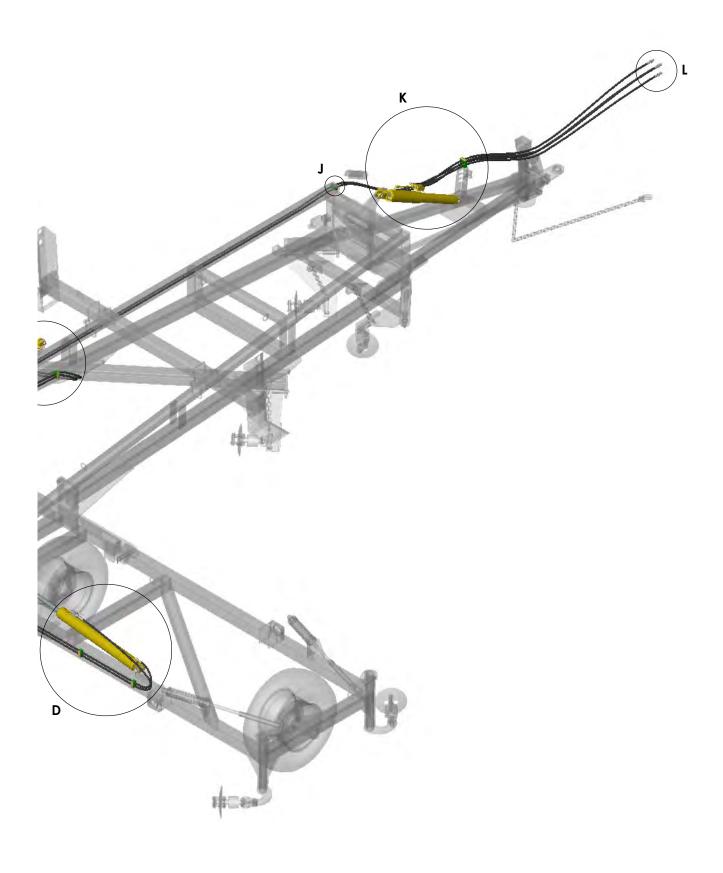




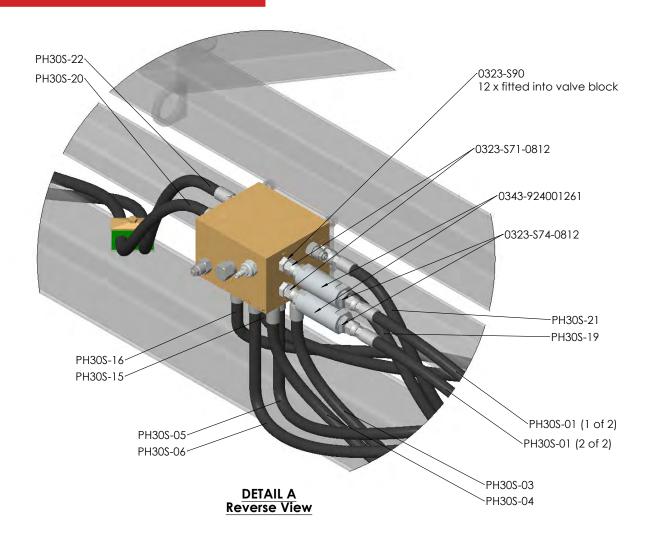


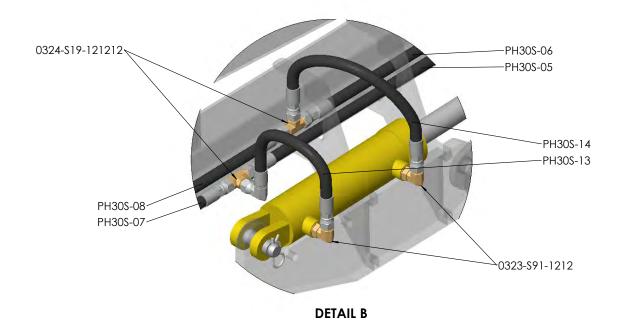
Note: Fit this end to valve block

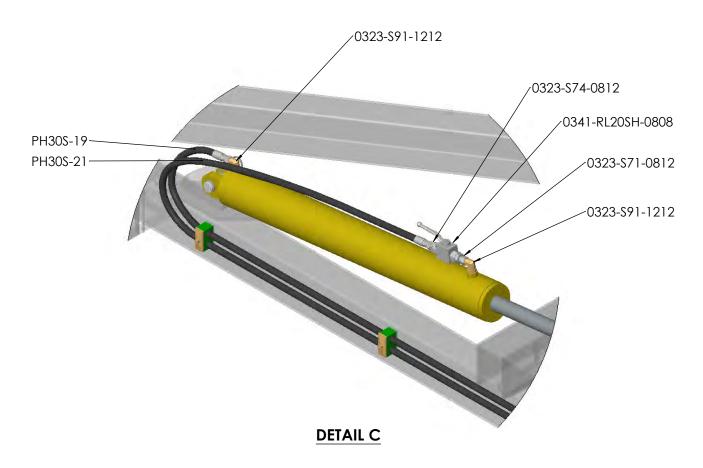


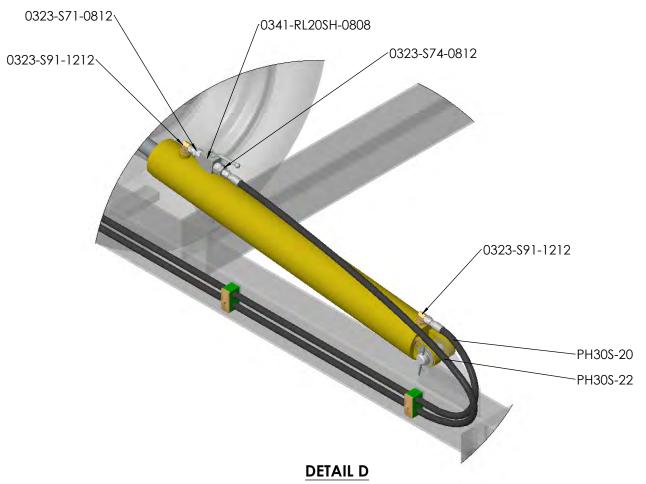


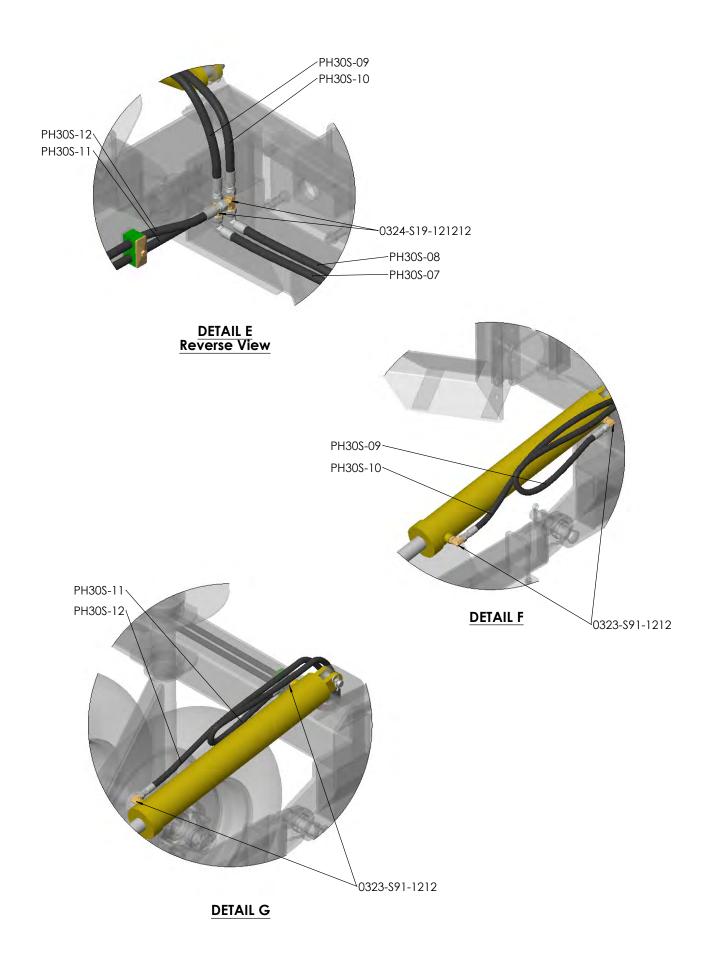
PLEASE REFER TO ASSEMBLY UPDATE 020 & 036 IN THE BACK OF THE MANUAL

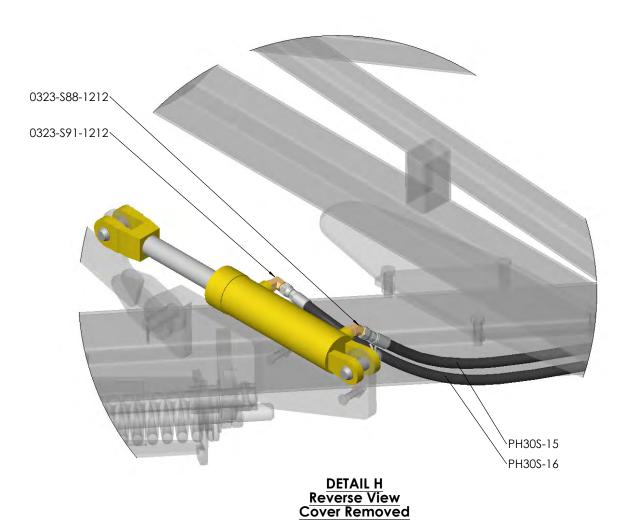


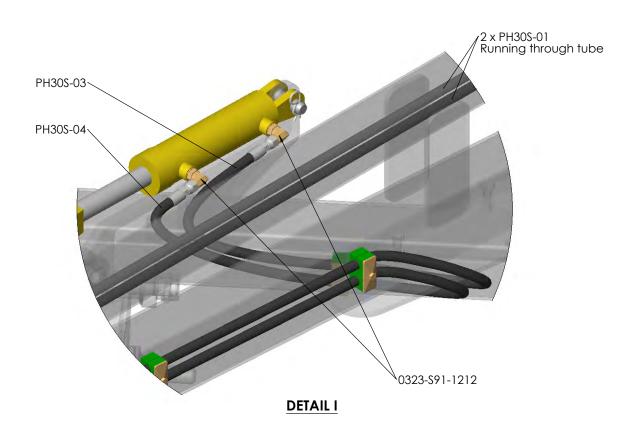


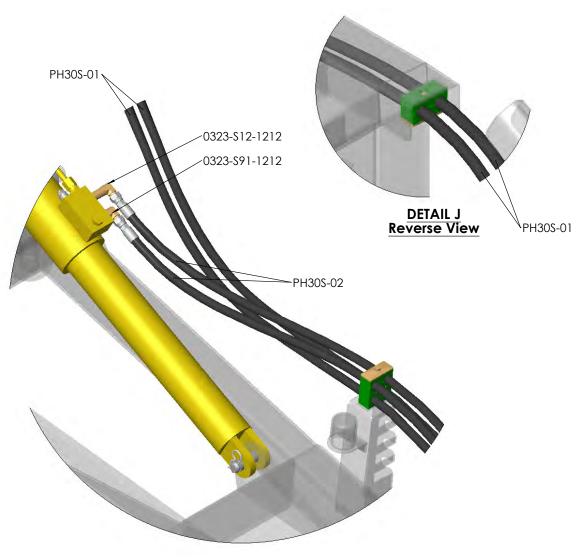




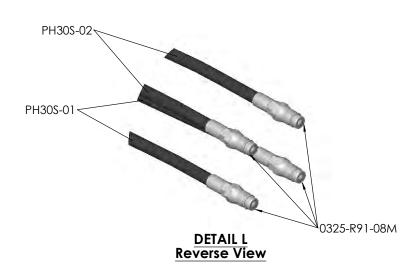


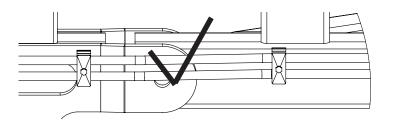




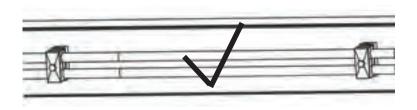


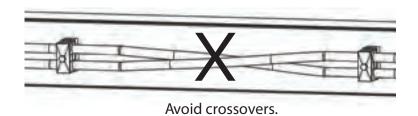
DETAIL K Reverse View

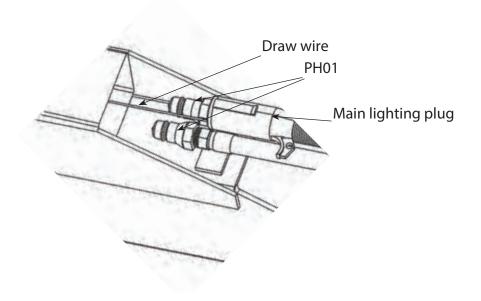




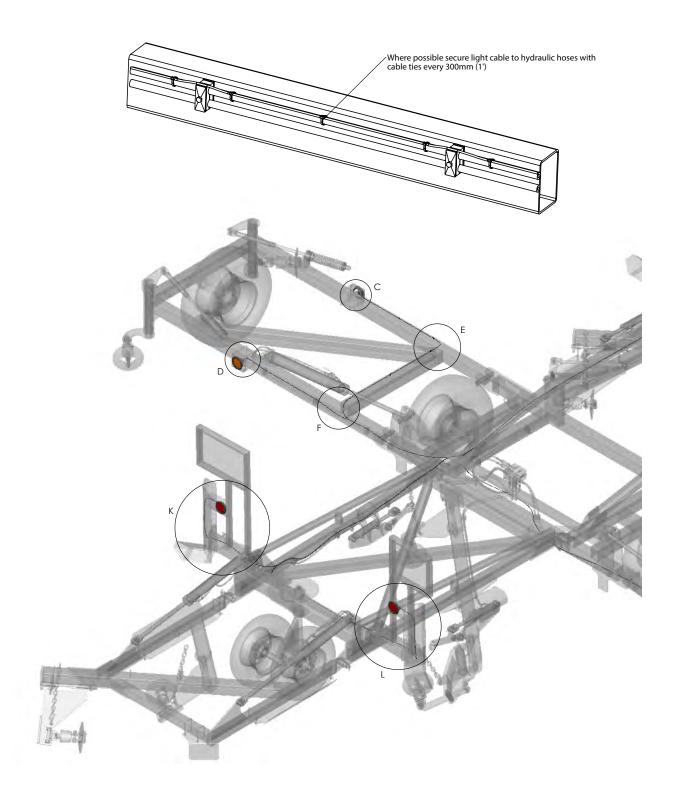
Correct layout of hoses

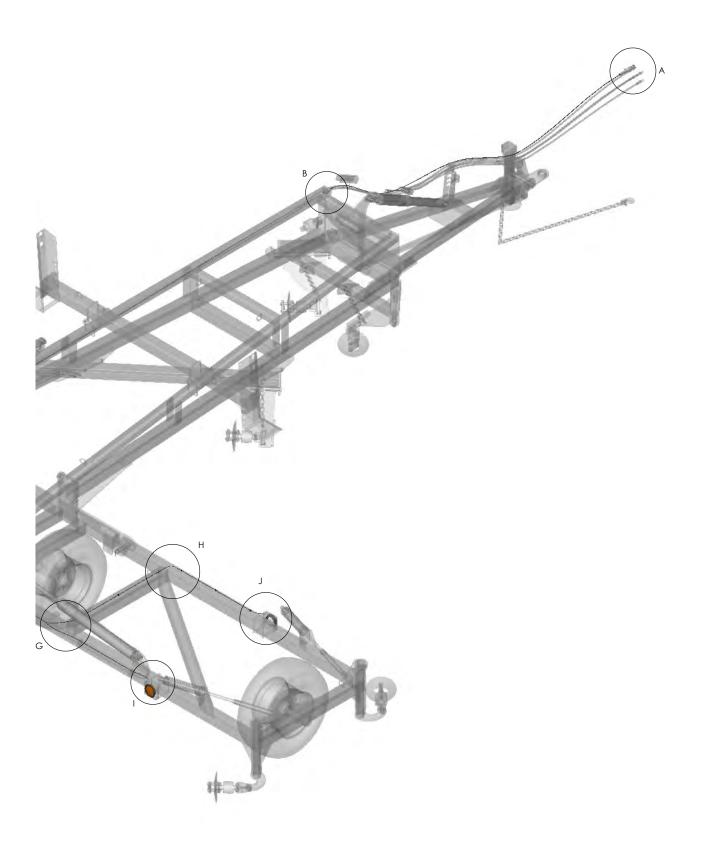






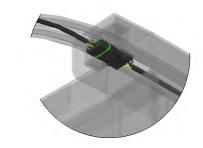
Electrical Layout



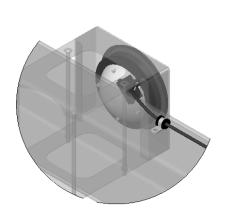




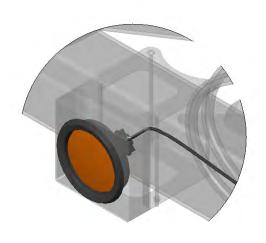
DETAIL A



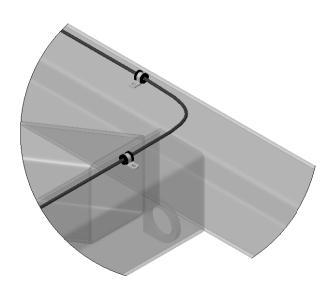
DETAIL B



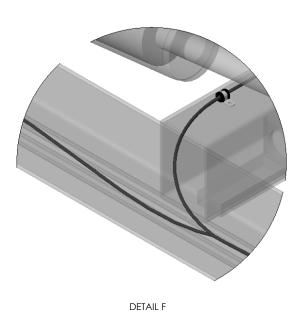
DETAIL C



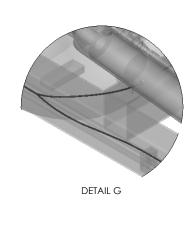
DETAIL D



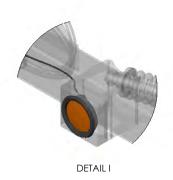
DETAIL E

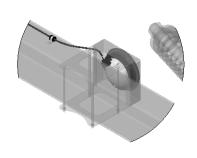


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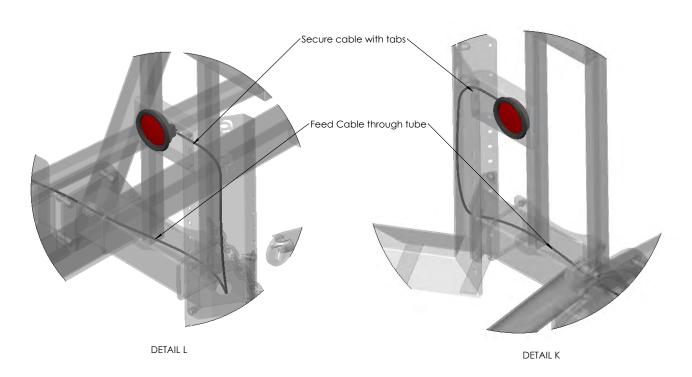




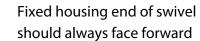


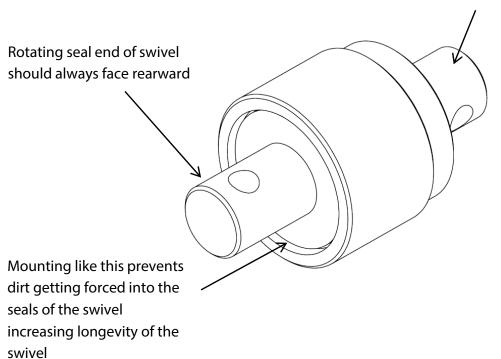


DETAIL J

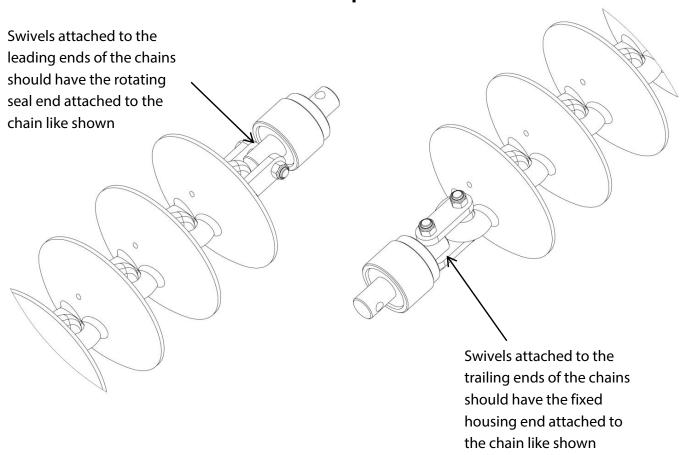


Mounting Swivels



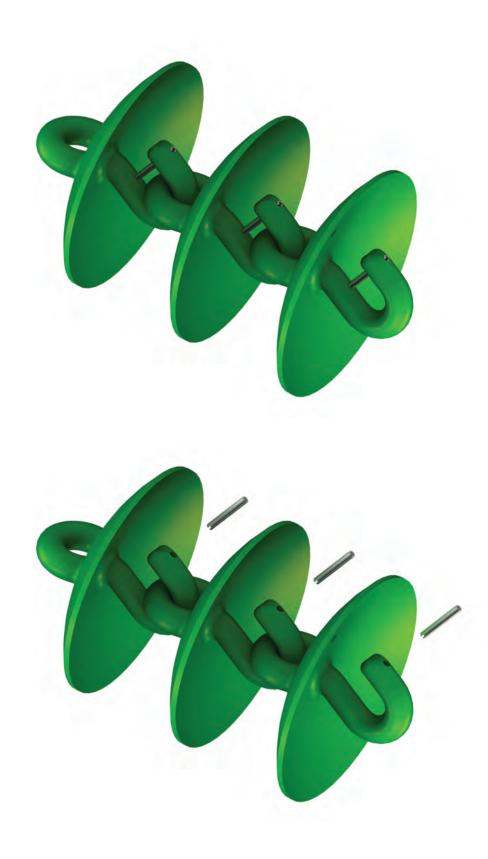


For Example



Fitting Cast Link Retaining Pins

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



Operating speeds

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

Tire pressure

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

Chain Harrow specifications

Model	30′/9m
Working width	28.5′/8.6m
Transport width	11.5′/3.5m
Transport height	13′/4.0m
Transport length	46′/14.0m

Bolt Torque Settings

Bolt Type	Wheel nut			Type Wheel nut U Bolt			Grade 8.8 Bolt				Grade 10.9 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, 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.

Specifications

Disc Chain lengths

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

Section 4Operation

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. (30' only, install wing transport lock pins).

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

Model	inches	mm
30	12.9	330

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









Modules

Loosen the lock nut on the draw bolt.

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

Retighten the lock nut.

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





Importance of chain tension

Operational

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

Loose chains lead to:

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

A correctly adjusted machine will not cause this phenomenon.

Settings for correct working height

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

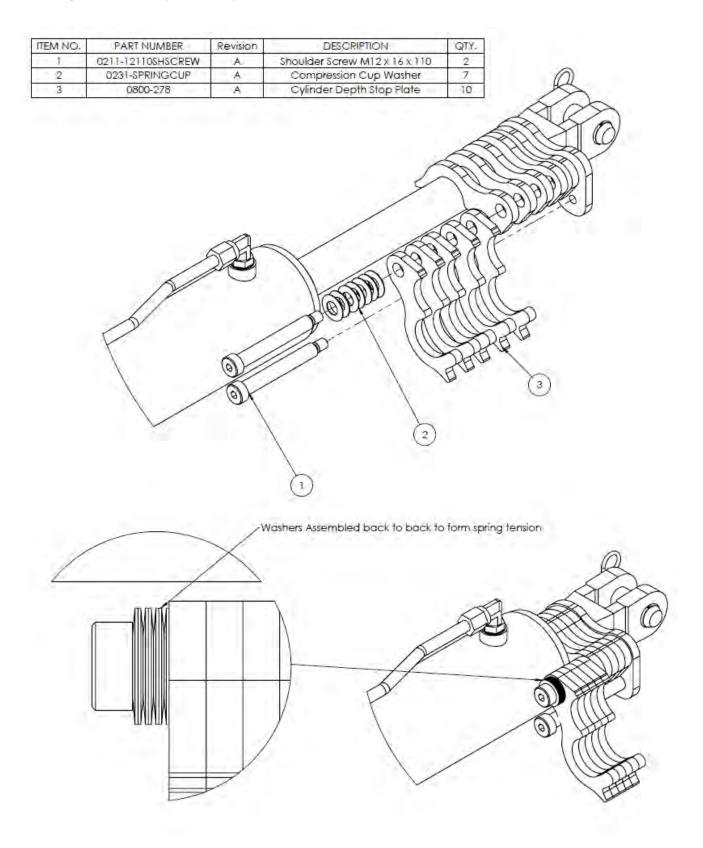
Adjustment

1	Loosen chain tension completely
2	Undo self tapping screw from corresponding spacer then prise open the spacer and spring it off of the drop leg tube
3	Replace it in the selected position after raising or lowering the drop leg
4	Reinstall the self tapping screw and re-tension the chain

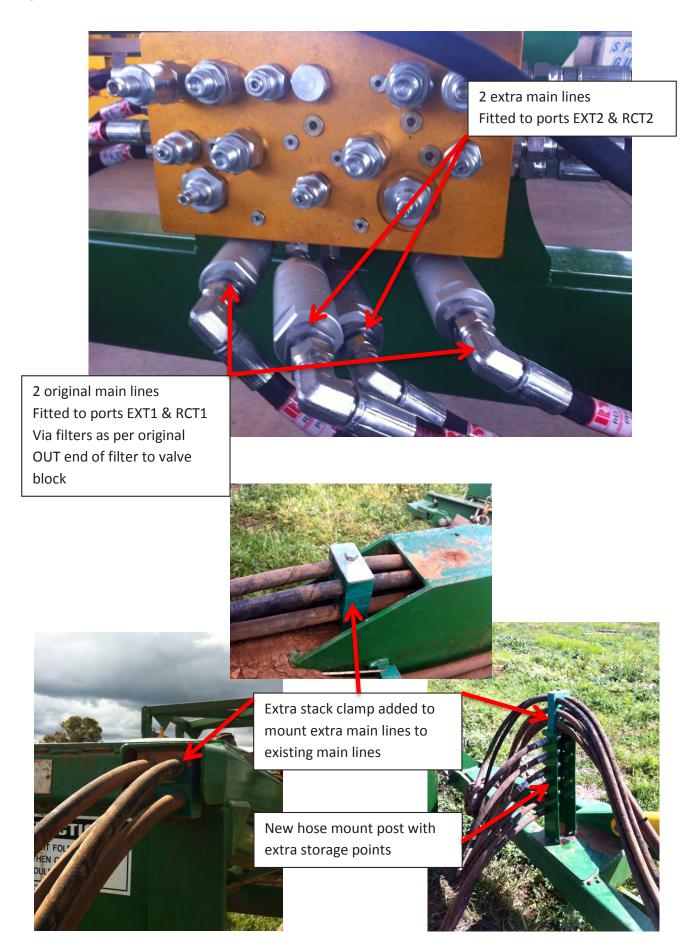
It is possible to install all spacers either above or below the mounting tube giving a maximum of 4" (100mm) of adjustment.



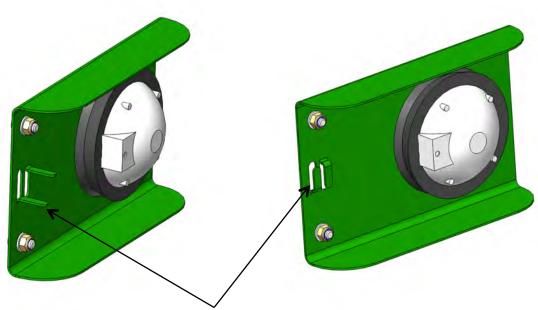
Front Cylinder Depth Stop



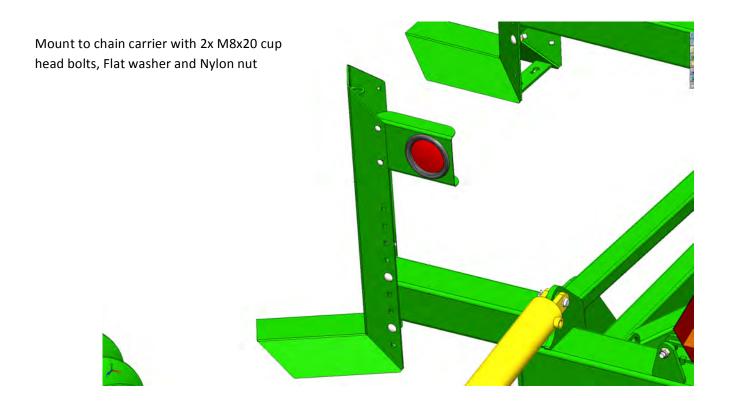
Hydraulic Valve Block



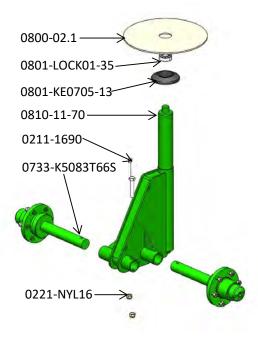
Rear Light Brackets



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



Brake Disc Collar



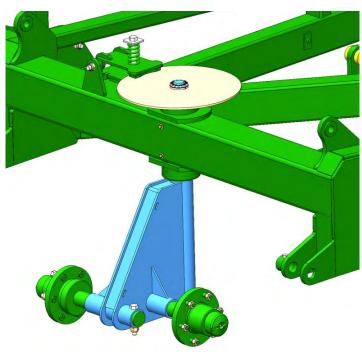
Slide shaft of jockey wheel up through both bearings.

Place black dust cover onto top bearing.

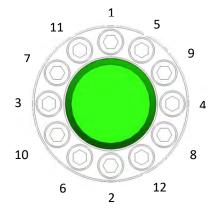
Slide disc brake into the calliper and over the top of jockey wheel.

Ensure when unscrewing bolts to fit collar over that some thread is still engaged otherwise you will not be able to screw bolt in.

Slide collar over shaft and inside the brake disc hole.



Tighten in a cross pattern, Bring all bolts up equally to 17Nm (12.54 Ft/Lbs) (caution if a single bolt is done up to tension there is a risk of the bolt breaking)



To undo, remove all bolts and gently tap collar with a hammer and collar should become loose.

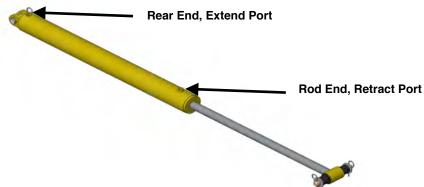
Correct Hose Attachment

Please note that when attaching hoses to sequence valve block to check that hoses are connected to the correct port.

Ports with CE, LE or RE are extend ports (the E denotes Extend) and hoses connected to these must go to the rear end of the cylinder.

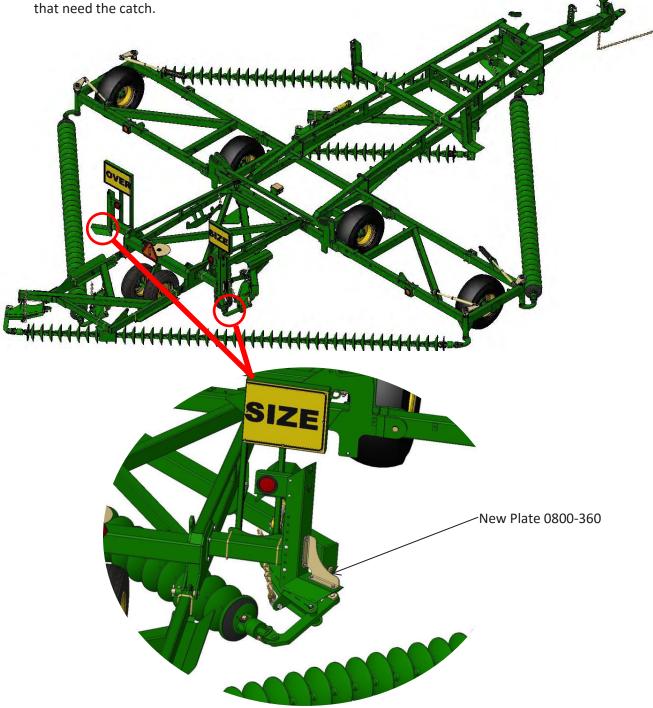
Ports with CR, LR or RR are retract ports (the R denotes Retract) and hoses connected to these must go to the rod end of the cylinder.



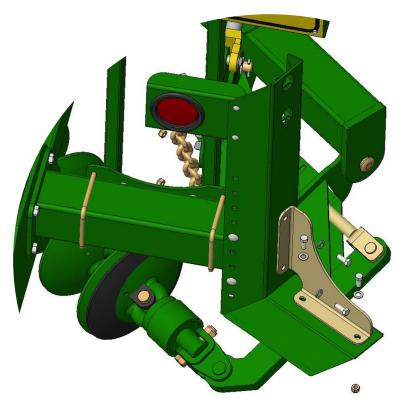


30ft Chain Catch

It has come to our attention that in some circumstances the right hand rear chain on the 30' machine has come off of the chain carrier end while in transport. To minimize this we have put a chain catch in place to resolve this issue. Please note that all chain carriers will have holes in them but it is only the rear two



30ft Chain Catch



New kit will include,

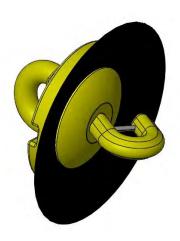
2x0800-360 plate

8xM12x8.8x30mm ZP Bolts (0211-1230)

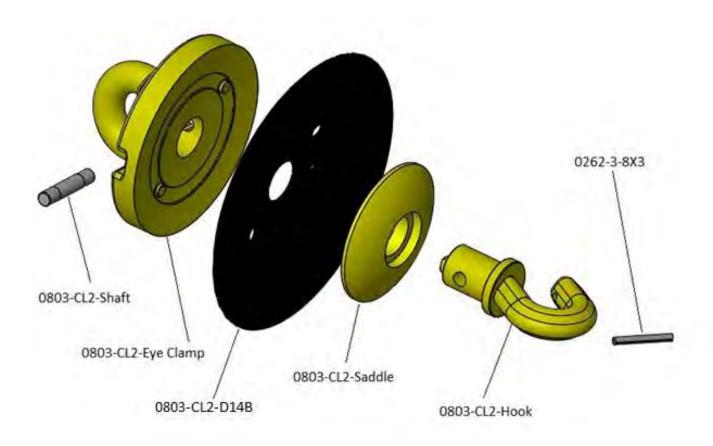
8xM12 Flat washers (0231-F12)

8xM12 Nyloc Nuts (0221-NYL12)

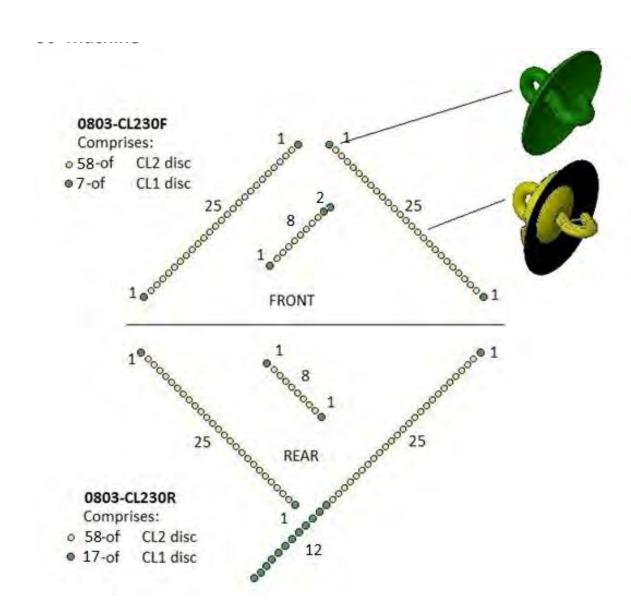
CL2 Chain Configuration



0803-CL2-Link Assembly



CL2 Chain Configuration



Please Note

Machines built from serial number 1170126 on will have 3 extra CL1 discs on the rear right chain.

CL2 Disc Chain 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

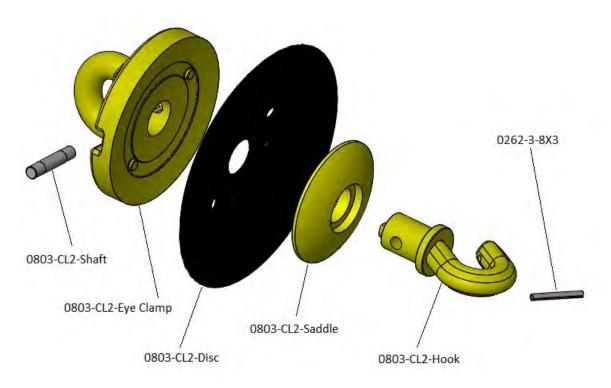


Figure 1: Exploded view of CL2 disc assembly

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 Chain 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 Chain Procedure



Figure 3: CL2 disc with press jig in Closed position

Notes

