

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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Symbols



This symbol indicates which way the machine is travelling

Section 1 Unpacking

Unpacking We recommend that a crane and forklift truck be available for unloading and assembly



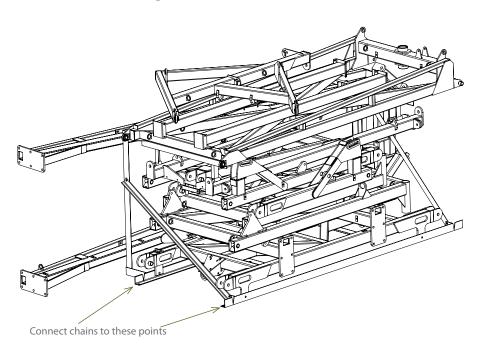
 Before opening shipping container inspect exterior for any damage. Remove seal and open container doors.

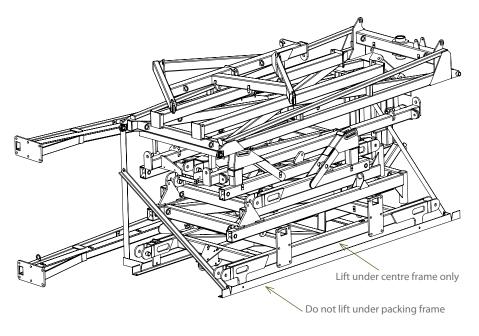


CAUTION

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 91200kg)
- Check strapping on each bundle before attempting to remove
- Attach chains to the packing frame using shackles and using suitable equipment (eg. fork-lift or tractor) drag framework bundles out of container. To move bundles away from front of container lift from side with forklift. Do not lift under angle iron frame, lift only under centre frame. Each bundle weighs approximately 7000 lb (3200 kg).











CAUTION

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

CAUTION

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

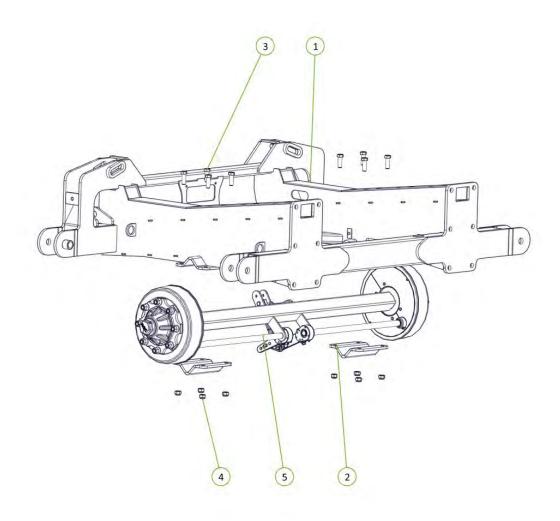
CAUTION

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

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

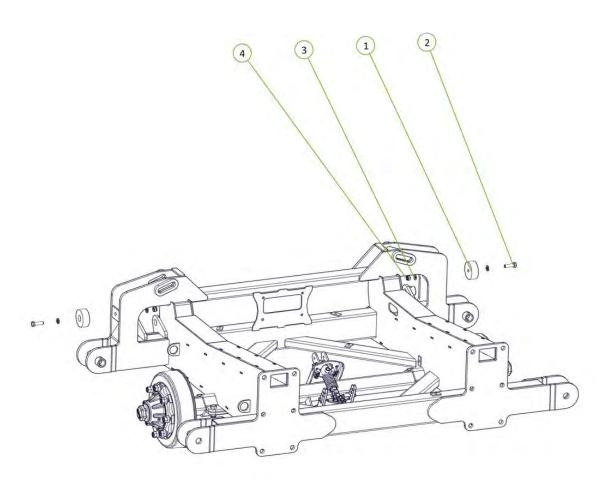
Section 2 Parts & Assembly

| Item No. | Description | Qty | Number |
|----------|------------------------------|-----|-------------------------|
| 1 | 9m Centre Frame | 1 | 1530-01 |
| 2 | Axle Mount Plate | 2 | 1530-100 |
| 3 | M20 x 60 grade 8.8 ZP Bolt | 8 | 0211-2060 |
| 4 | Nyloc Nut M20 | 8 | 0221-NYL20 |
| 5 | 808 XF 8 on 275 PCD 2006 OHF | 1 | 0733-808XF400X80C-V2006 |



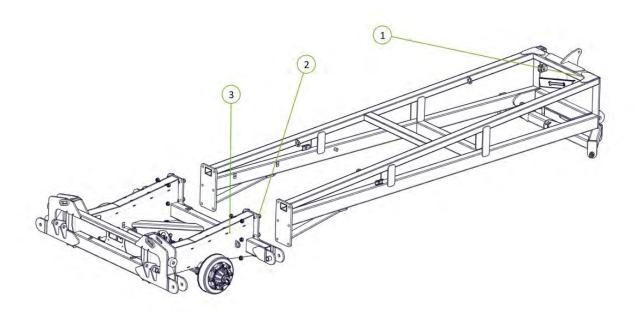


| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | Wing Folding Buffer | 2 | 1201-12 |
| 2 | M16 x 55 grade 8.8 zp Bolt | 2 | 0211-1655 |
| 3 | Washer Flat M16 | 4 | 0231-F16 |
| 4 | Nyloc Nut M16 | 2 | 0221-NYL16 |



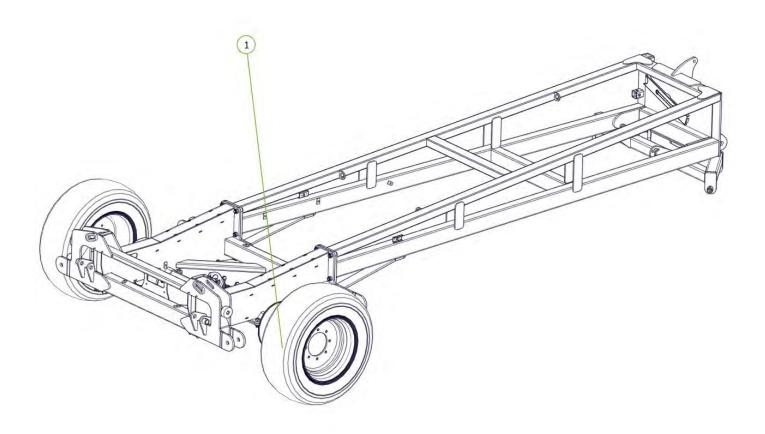


| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | 9m Main Pull | 1 | 1530-02 |
| 2 | M24 x 65 grade 8.8 zp Bolt | 12 | 0211-2465 |
| 3 | Nyloc Nut M24 | 12 | 0221-NYL24 |



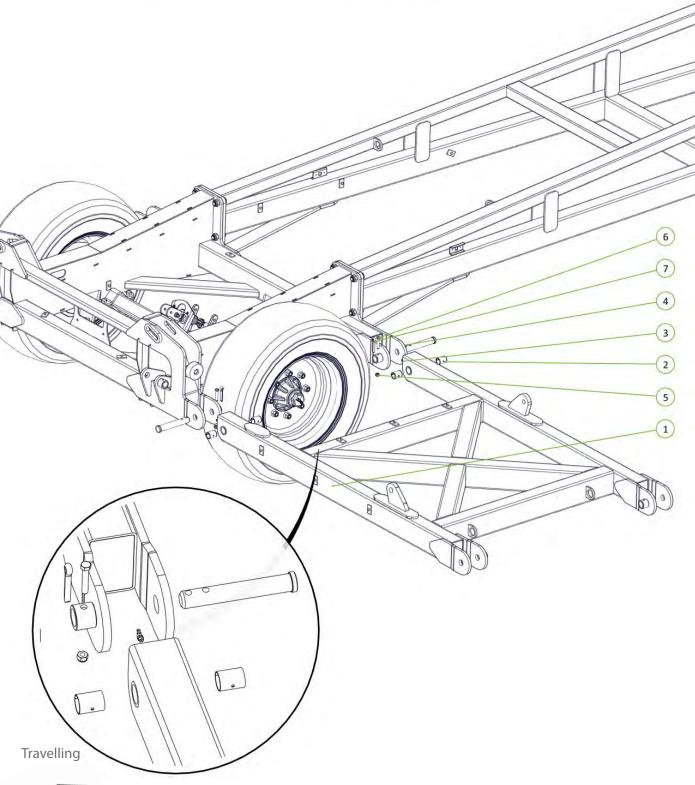


| Item No. | Description | Qty | Number |
|----------|-------------------------------------|-----|--------------------|
| 1 | 400/60-22.5Tyre on 8 on 275 PCD Rim | 2 | 0751-400-60-22.5TR |

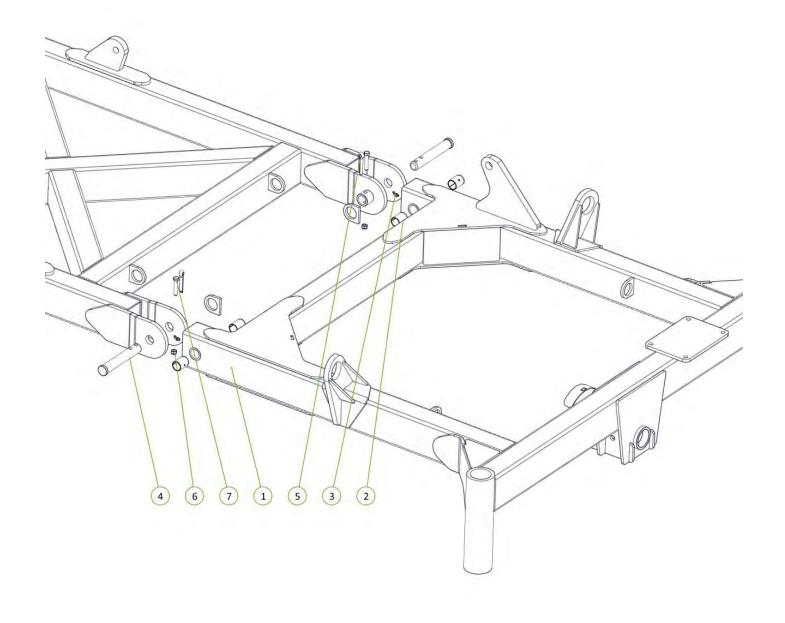




| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|----------------|
| 1 | 9M RH Inner Wing | 1 | 1530-04 |
| 2 | MB ID 35mm x 50mm DX Bush | 4 | 0113-MB 3550DX |
| 3 | 0181-GN1-845 | 2 | 0181-GN1-845 |
| 4 | PCH Wing Pivot Pin | 2 | 0801-10-08-235 |
| 5 | M12 Nyloc Nut | 2 | 0221-NYL12 |
| 6 | M12 x 65 grade 8.8 ZP Bolt | 2 | 0211-1265 |
| 7 | COTTER PIN M13 X 63mm | 2 | 0261-PINC1363 |

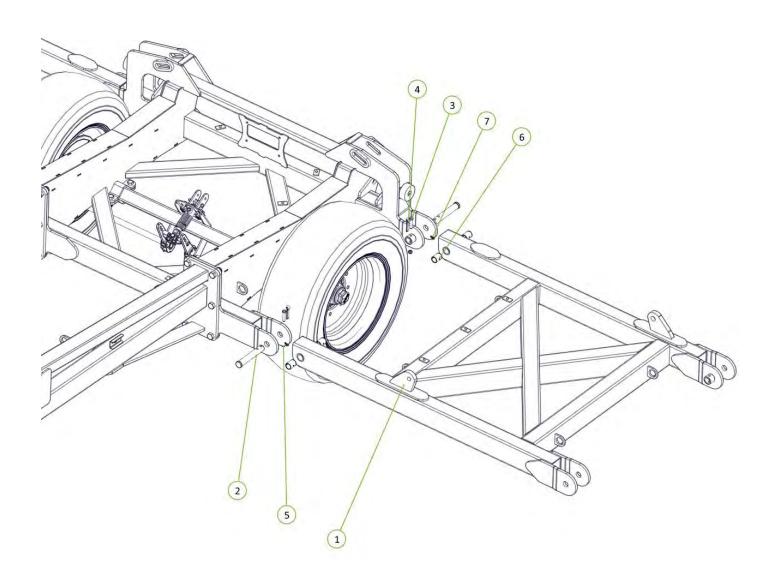


| Item No. | Description | Qty | Number |
|----------|-------------------------------|-----|----------------|
| 1 | 9m RH Outer Wing | 1 | 1530-06 |
| 2 | MB ID 35mm x 50mm DX Bush | 4 | 0113-MB 3550DX |
| 3 | Grease Nipple 1/8" BSP 45 Deg | 2 | 0181-GN1-845 |
| 4 | PCH Wing Pivot Pin | 2 | 0801-10-08-235 |
| 5 | COTTER PIN M13 X 63mm | 2 | 0261-PINC1363 |
| 6 | Nyloc Nut M12 | 2 | 0221-NYL12 |
| 7 | M12 x 65 grade 8.8 ZP Bolt | 2 | 0211-1265 |



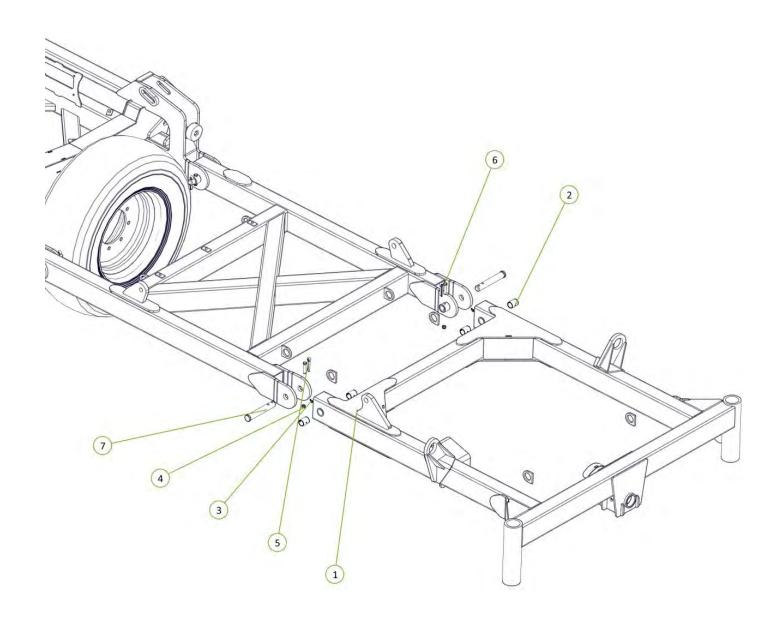


| Item No. | Description | Qty | Number |
|----------|-------------------------------|-----|----------------|
| 1 | 9M LH Inner Wing | 1 | 1530-05 |
| 2 | PCH Wing Pivot Pin | 2 | 0801-10-08-235 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 2 | 0211-1265 |
| 4 | COTTER PIN M13 X 63mm | 2 | 0261-PINC1363 |
| 5 | M12 Nyloc Nut | 2 | 0221-NYL12 |
| 6 | MB ID 35mm x 50mm DX Bush | 4 | 0113-MB 3550DX |
| 7 | Grease Nipple 1/8" BSP 45 Deg | 2 | 0181-GN1-845 |

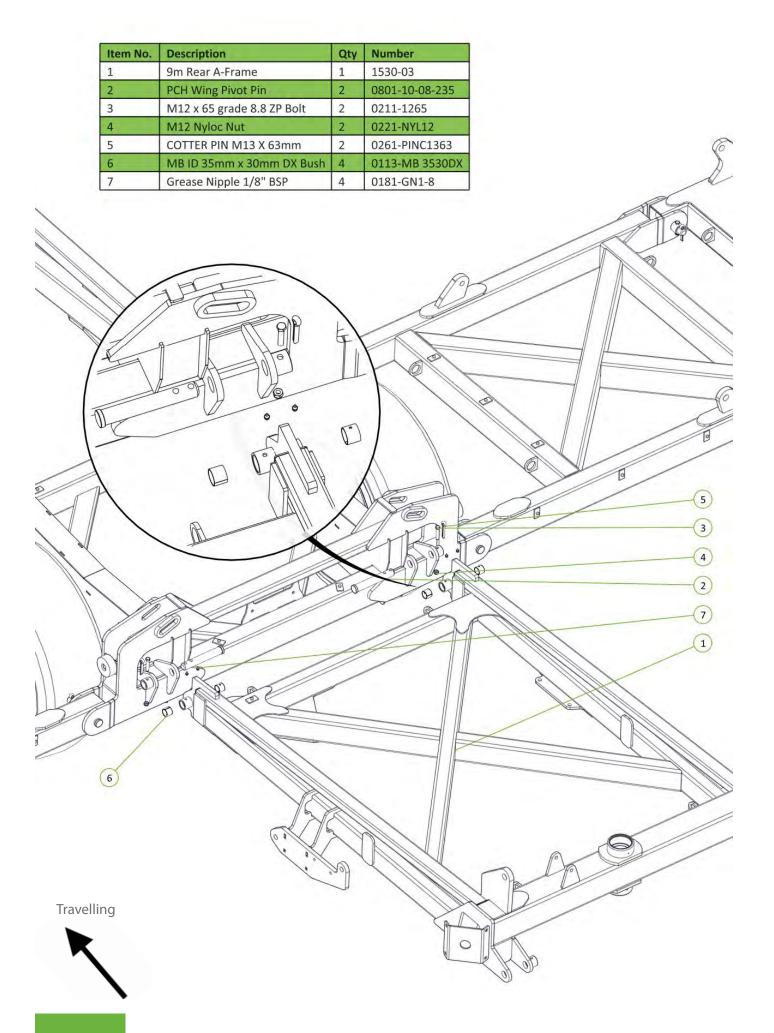




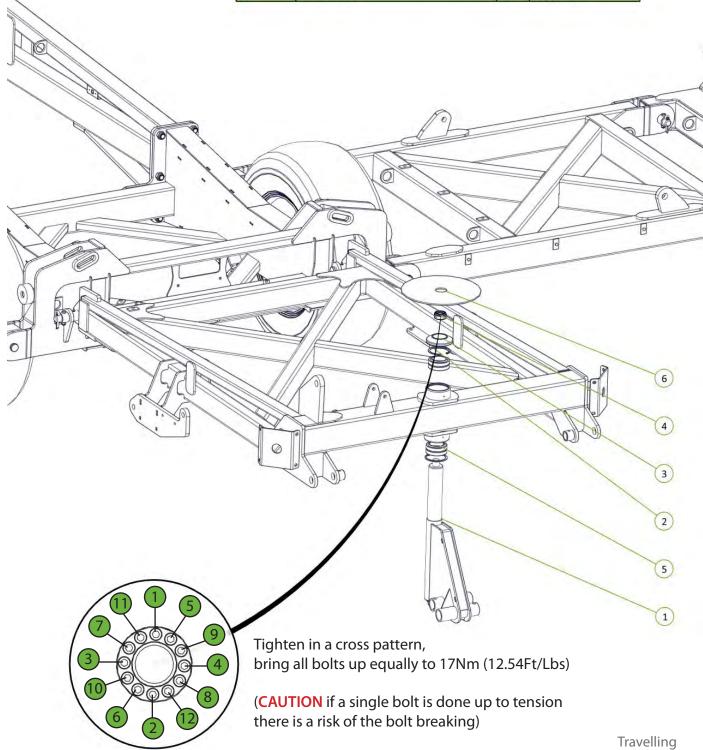
| Item No. | Description | Qty | Number |
|----------|-------------------------------|-----|----------------|
| 1 | 9m LH Outer Wing | 1 | 1530-07 |
| 2 | MB ID 35mm x 50mm DX Bush | 4 | 0113-MB 3550DX |
| 3 | Grease Nipple 1/8" BSP 45 Deg | 2 | 0181-GN1-845 |
| 4 | Nyloc Nut M12 | 2 | 0221-NYL12 |
| 5 | COTTER PIN M13 X 63mm | 2 | 0261-PINC1363 |
| 6 | M12 x 65 grade 8.8 ZP Bolt | 2 | 0211-1265 |
| 7 | PCH Wing Pivot Pin | 2 | 0801-10-08-235 |



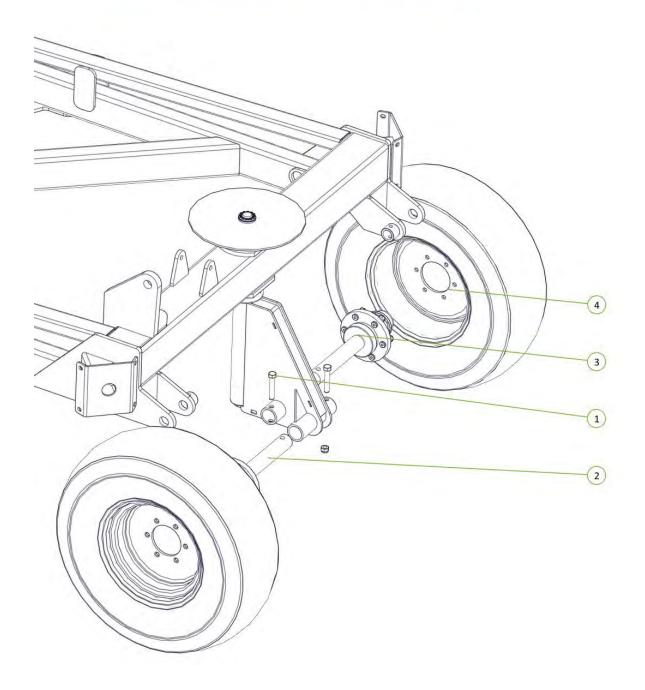




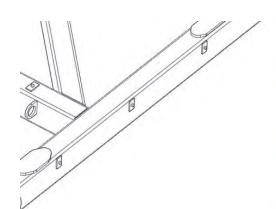
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|-----------------|
| 1 | 70mm Jockey Wheel | 1 | 0810-11-70 |
| 2 | Circlip Internal 105MM | 2 | 0171-J105 |
| 3 | 70mm Polymer Dust cap | 1 | 0801-KE0705-13 |
| 4 | 35mm Shaft Lock Clamping Element | 1 | 0801-LOCK01-35 |
| 5 | Plain Spherical Bearing 70mm | 2 | 0113-GE70DO-2RS |
| 6 | Brake Disc | 1 | 0800-02.1 |



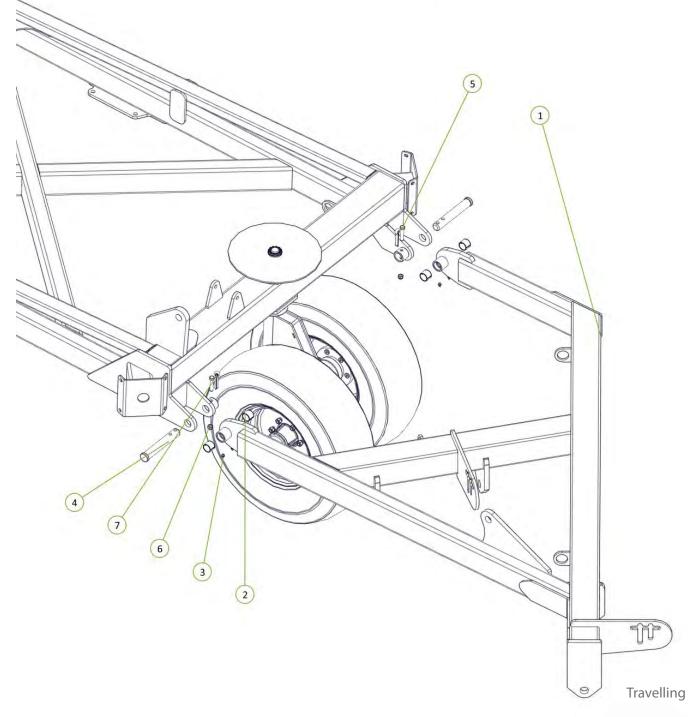
| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|----------------|
| 1 | M16 x 90 grade 8.8 zp Bolt | 2 | 0211-1690 |
| 2 | Nyloc Nut M16 | 2 | 0221-NYL16 |
| 3 | Axle 2"R 3T 6 on 6"PCD 330 OHF | 2 | 0733-K5083T66S |
| 4 | 11L15F3 Tyre On Rim | 2 | 0751-11L15 |



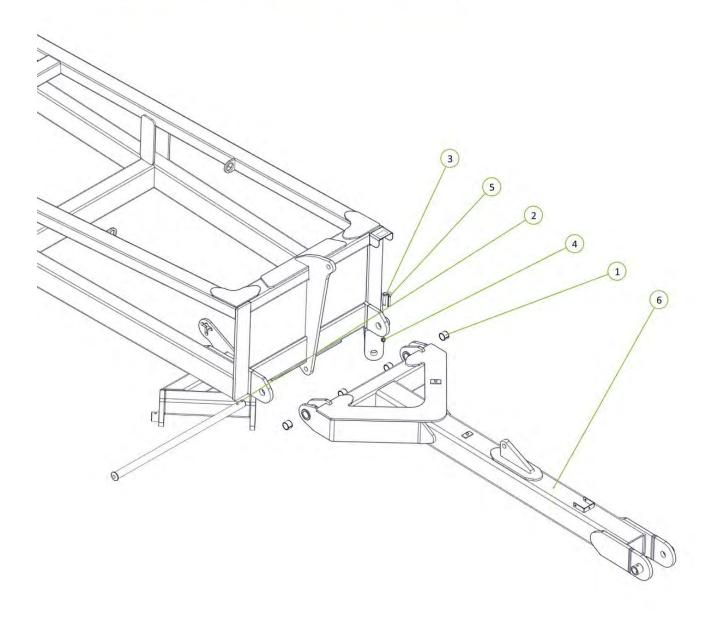




| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|----------------|
| 1 | 9m/12m Rear Tail | 1 | 1510-10 |
| 2 | MB ID 35mm x 30mm DX Bush | 4 | 0113-MB 3530DX |
| 3 | Grease Nipple 1/8" BSP | 4 | 0181-GN1-8 |
| 4 | PCH Wing Pivot Pin | 2 | 0801-10-08-235 |
| 5 | M12 x 65 grade 8.8 ZP Bolt | 2 | 0211-1265 |
| 6 | Nyloc Nut M12 | 2 | 0221-NYL12 |
| 7 | COTTER PIN M13 X 63mm | 2 | 0261-PINC1363 |

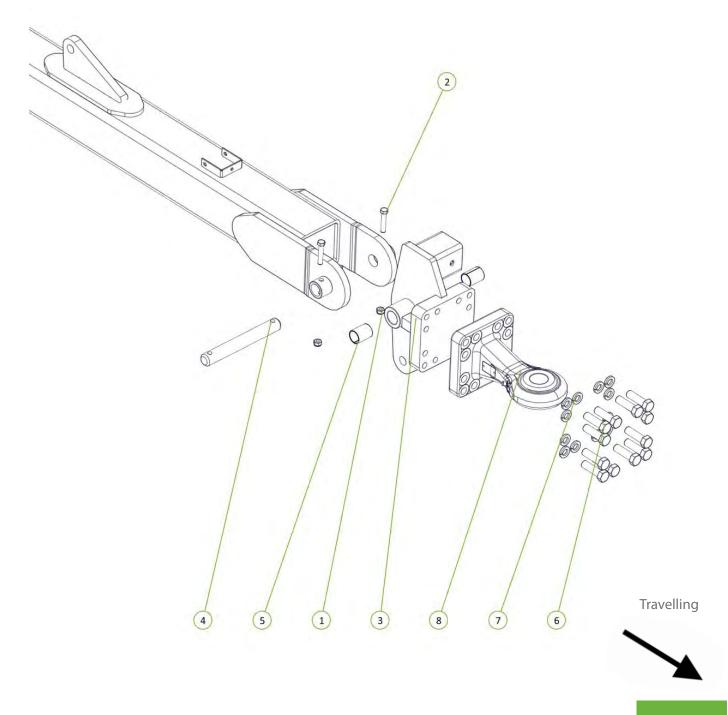


| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|----------------|
| 1 | 1-1/2 ID x 1-1/4" DU Bush | 4 | 0113-MB 24DU20 |
| 2 | Drawbar Pivot Pin | 1 | 0801-10-13-970 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 4 | Nyloc Nut M12 | 1 | 0221-NYL12 |
| 5 | COTTER PIN M13 X 63mm | 1 | 0261-PINC1363 |
| 6 | Drawbar Assembly | 1 | 1530-08 |

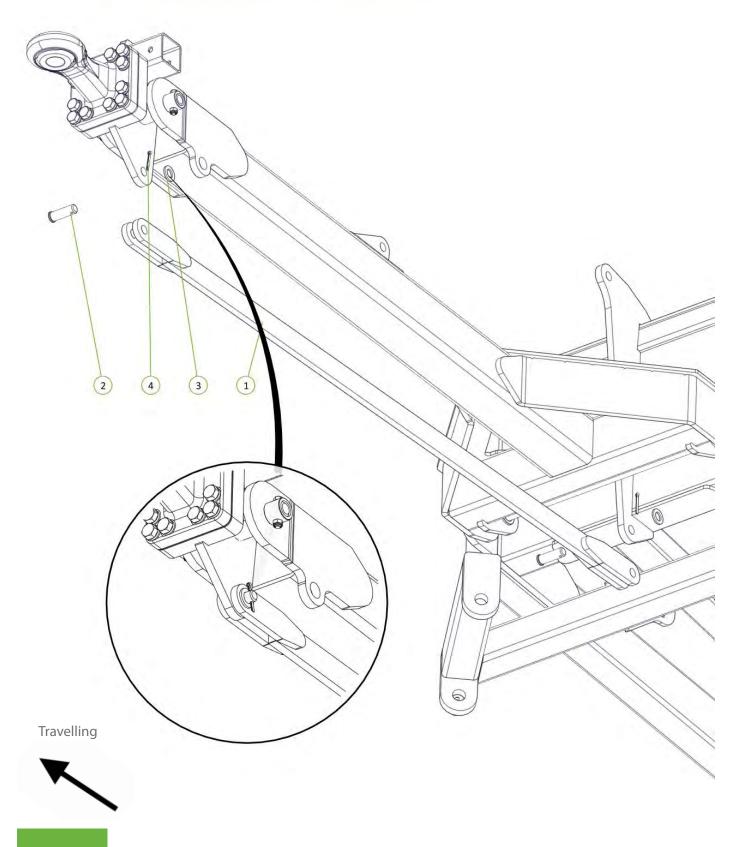




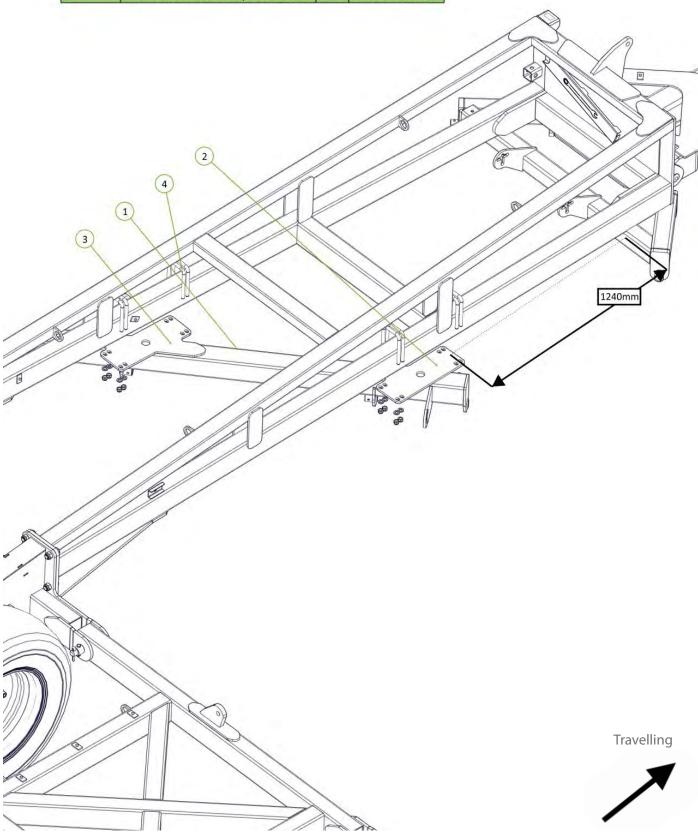
| Item No. | Description | Qty | Number |
|----------|-------------------------------|-----|------------------|
| 1 | Nyloc Nut M12 | 2 | 0221-NYL12 |
| 2 | M12 x 65 grade 8.8 ZP Bolt | 2 | 0211-1265 |
| 3 | Flange Mount Tow Hitch | 1 | 1510-09 |
| 4 | Tow Hitch Pivot Pin | 1 | 0801-10-06 |
| 5 | 35mm 50 Long DU Bush | 2 | 0113-MB 3550DU |
| 6 | M20 x 70 grade 10.9 ZP Bolt | 12 | 0211-2070 |
| 7 | Spring Washer M20 | 12 | 0231-S20 |
| 8 | 51mm Cat 4 Flange Mount Hitch | 1 | 0802-00.665.17.1 |



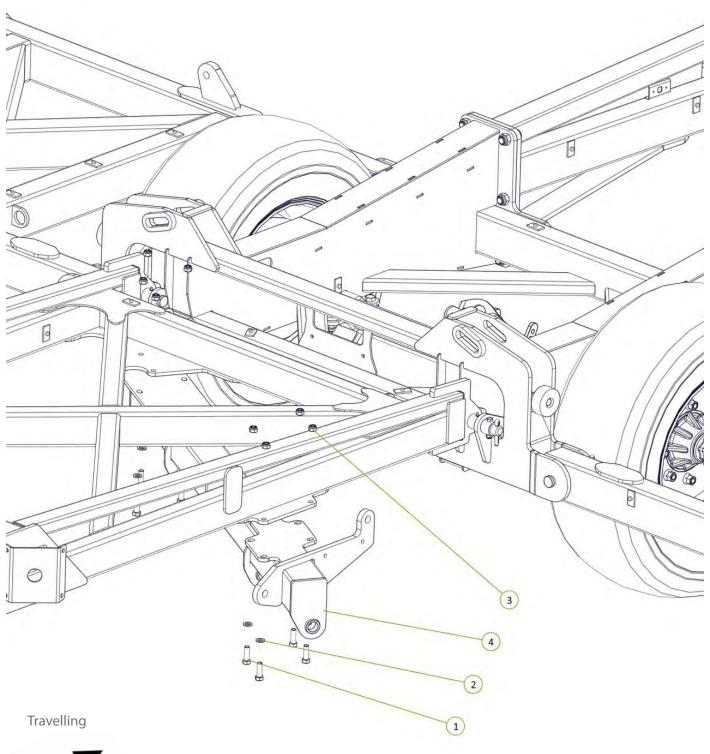
| Item No. | Description | Qty | Number |
|----------|------------------------|-----|---------------|
| 1 | Parrallel Arm | 1 | 0810-22 |
| 2 | Clevis Pin 25mm x 75mm | 2 | 0801-KE0307-1 |
| 3 | Washer Flat M24 | 2 | 0231-F24 |
| 4 | M6 x 50 Cotter Pin | 2 | 0261-PINC650 |



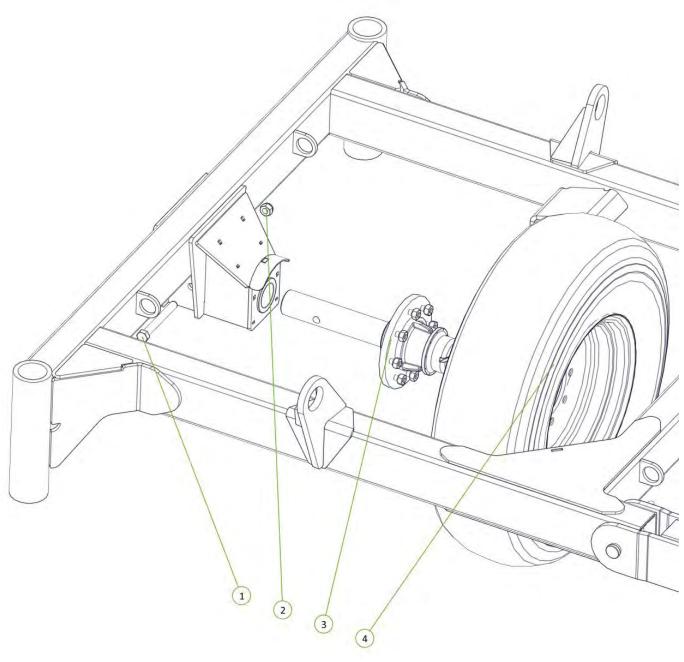
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|---------------|
| 1 | 9m/12m Front Module | 1 | 1510-28-30 |
| 2 | Washer Flat M16 | 16 | 0231-F16 |
| 3 | Nyloc Nut M16 | 16 | 0221-NYL16 |
| 4 | U-Bolt M16 x 185 Deep x 104 Wide | 8 | 0271-16185104 |



| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | M16 x 50 grade 8.8 zp Bolt | 8 | 0211-1650 |
| 2 | Washer Flat M16 | 8 | 0231-F16 |
| 3 | Nyloc Nut M16 | 8 | 0221-NYL16 |
| 4 | 9m/12m Rear Module | 1 | 1510-29-30 |

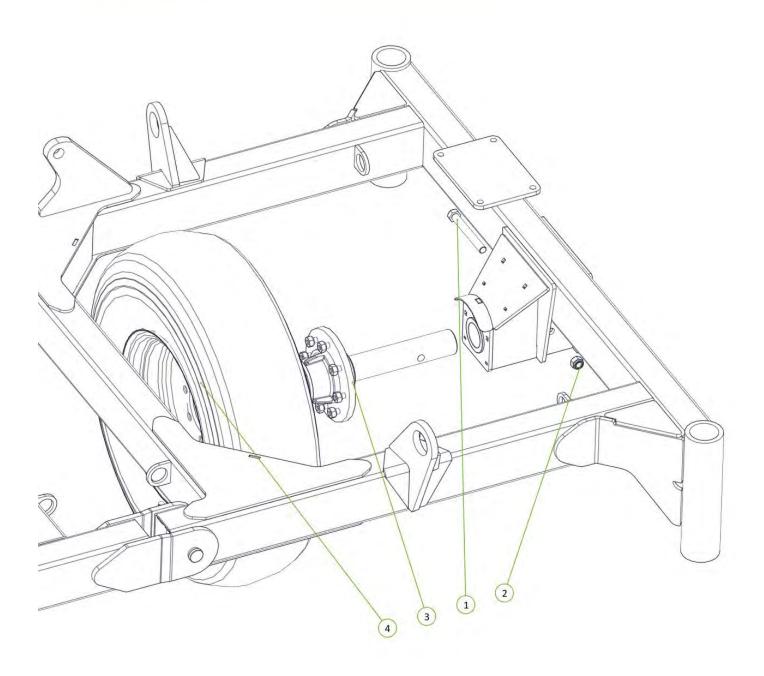


| Item No. | Description | Qty | Number |
|----------|-------------------------------------|-----|--------------------|
| 1 | M20 x 170 grade 8.8 ZP Bolt | 1 | 0211-20170 |
| 2 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 3 | 2.75"R C/W 6 tonne 8 on 8" PCD | 1 | 0733-SH27596880 |
| 4 | 400/60-22.5Tyre on 8 on 275 PCD Rim | 1 | 0751-400-60-22.5TR |



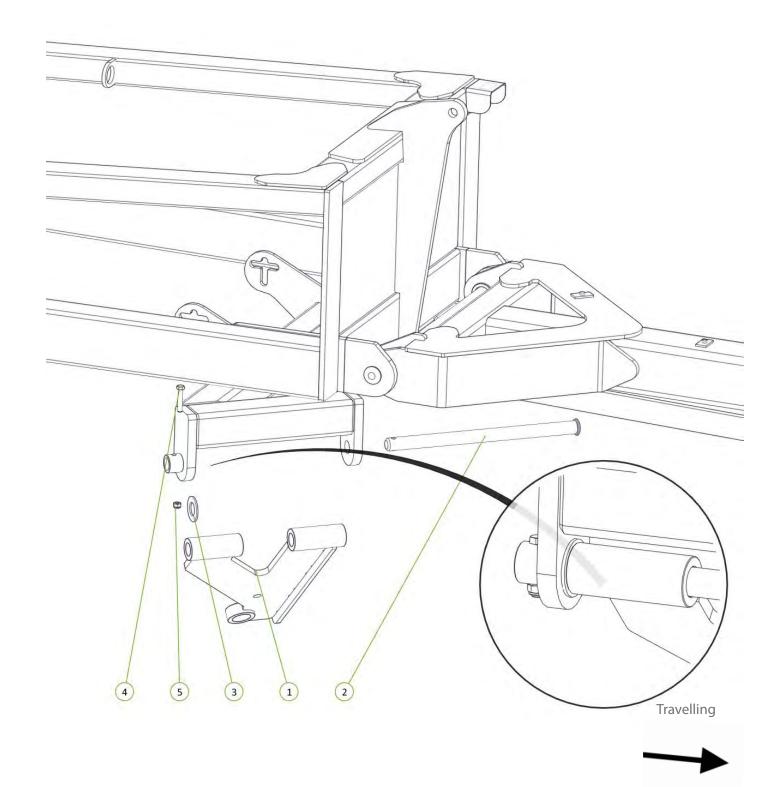


| Item No. | Description | Qty | Number |
|----------|-------------------------------------|-----|--------------------|
| 1 | M20 x 170 grade 8.8 ZP Bolt | 1 | 0211-20170 |
| 2 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 3 | 2.75"R C/W 6 tonne 8 on 8" PCD | 1 | 0733-SH27596880 |
| 4 | 400/60-22.5Tyre on 8 on 275 PCD Rim | 1 | 0751-400-60-22.5TR |

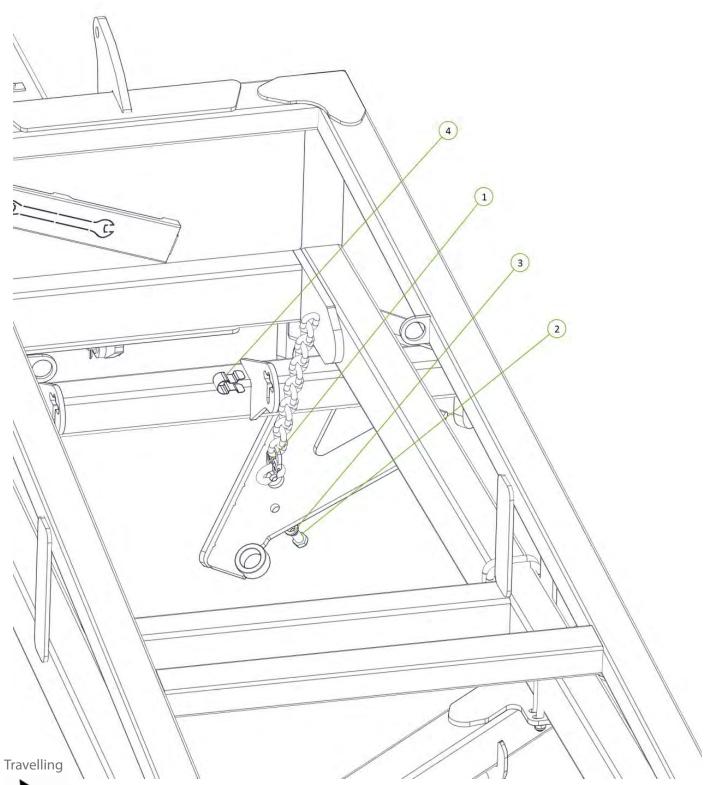




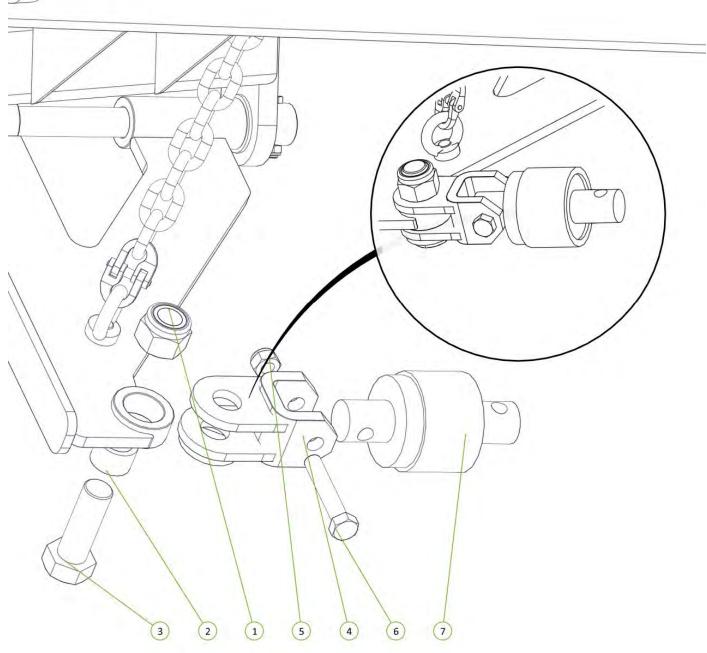
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Standard Chain Mt Plate | 1 | 1510-21 |
| 2 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 3 | Washer High Tensile1 3/8" | 1 | 0232-HT13-8 |
| 4 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 5 | Nyloc Nut M12 | 1 | 0221-NYL12 |



| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |
| 2 | M20 x 50 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 3 | M20 Spring Washer | 1 | 0231-S20 |
| 4 | Height Adjustor Retaining Clip | 1 | 0801-KE014 |



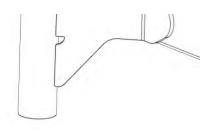


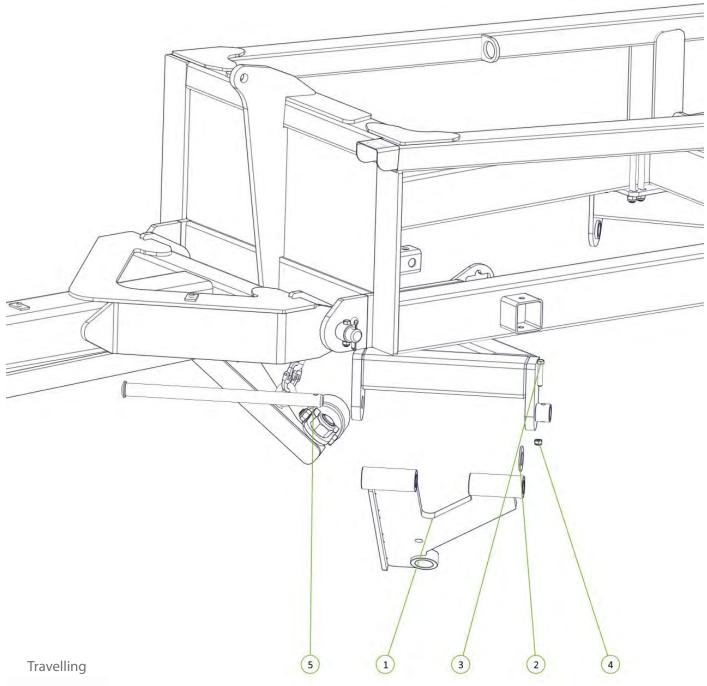


| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 2 | Wear Bush | 1 | 0801-SSB |
| 3 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 4 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 5 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 6 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110 ST |
| 7 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |



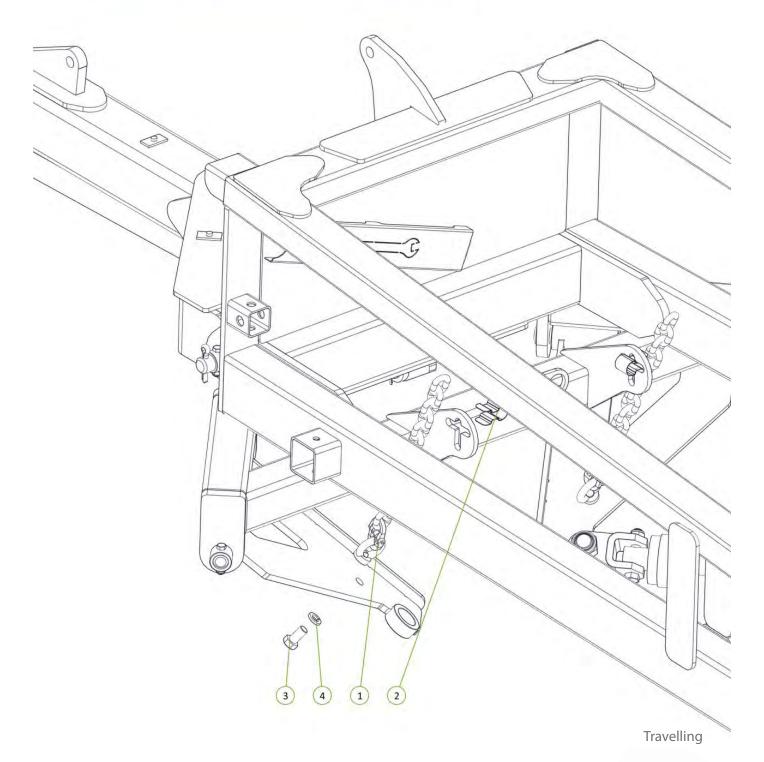




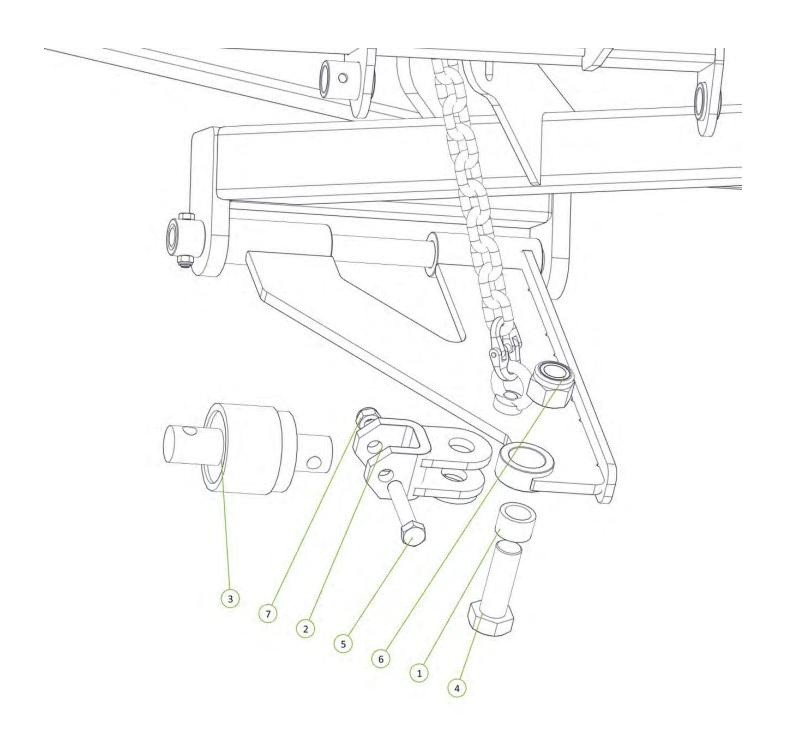




| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |
| 2 | Height Adjustor Retaining Clip | 1 | 0801-KE014 |
| 3 | M20 x 40 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 4 | M20 Spring Washer | 1 | 0231-520 |



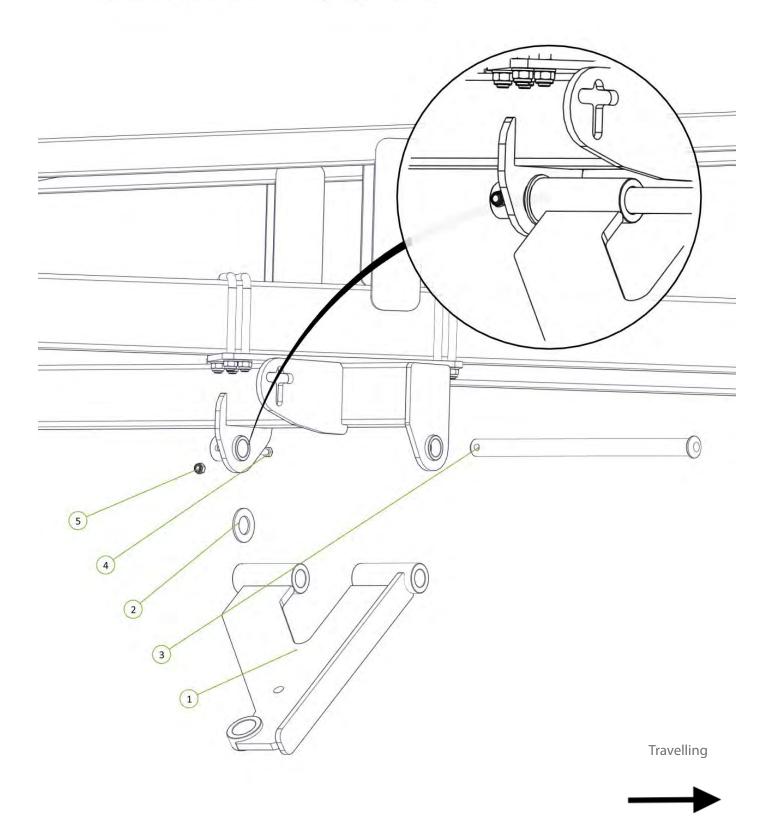




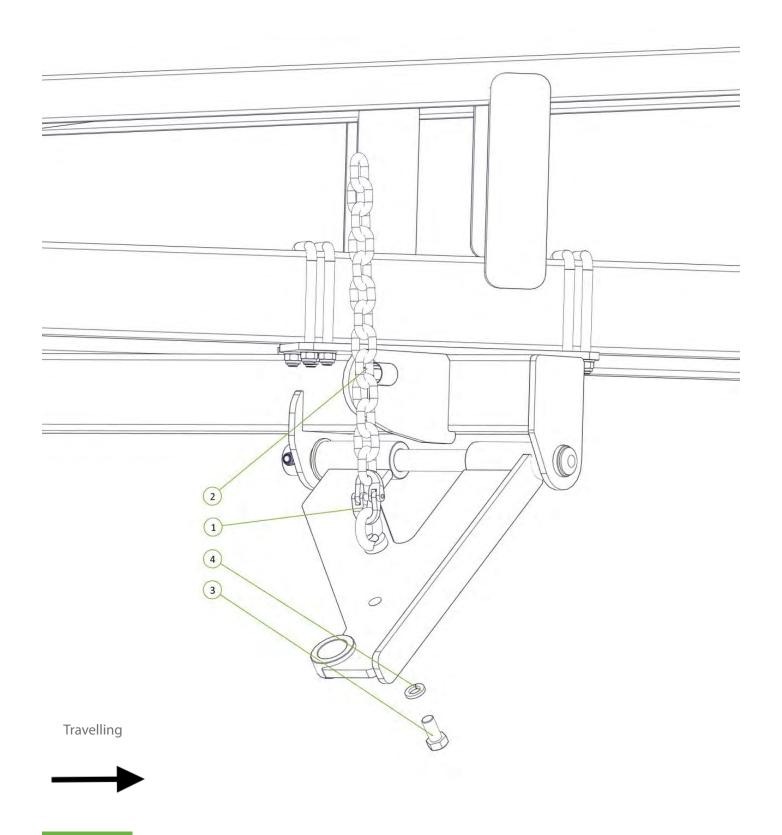
| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Wear Bush | 1 | 0801-SSB |
| 2 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 3 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 4 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 5 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110 ST |
| 6 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 7 | Nyloc Nut M20 | 1 | 0221-NYL20 |



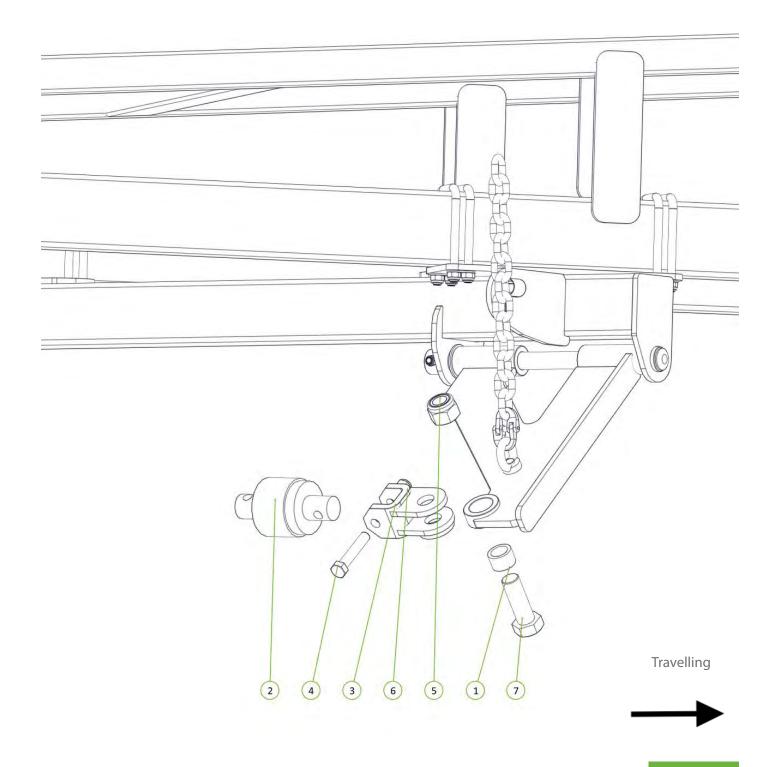
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Standard Chain Mt Plate | 1 | 1510-21 |
| 2 | Washer High Tensile 1 3/8" | 1 | 0232-HT13-8 |
| 3 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 4 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 5 | Nyloc Nut M12 | 1 | 0221-NYL12 |



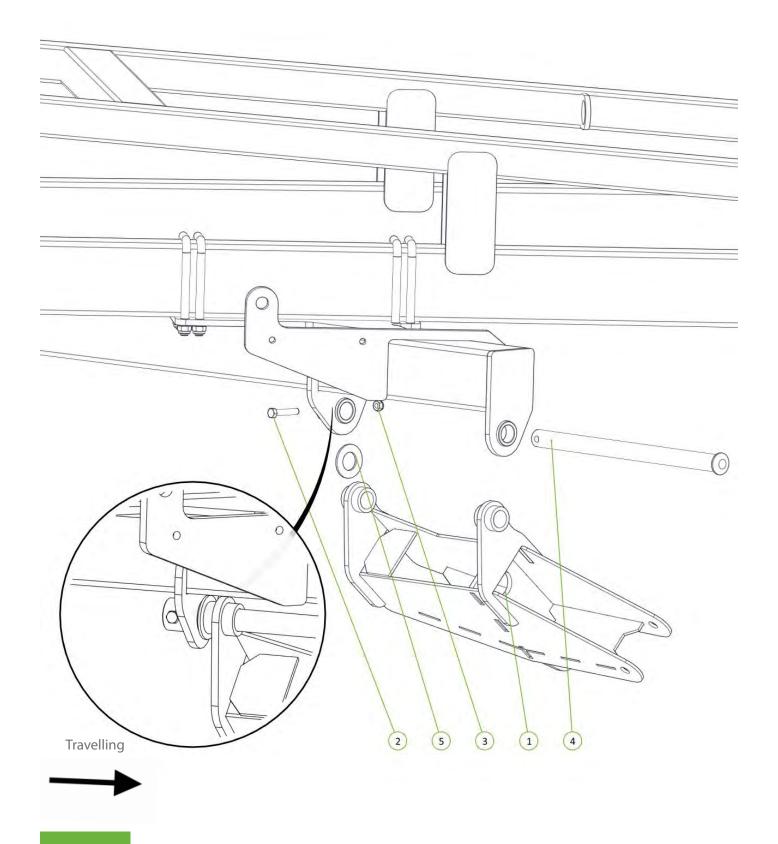
| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |
| 2 | Height Adjustor Retaining Clip | 1 | 0801-KE014 |
| 3 | M20 x 40 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 4 | Washer Spring M20 | 1 | 1530-100 |

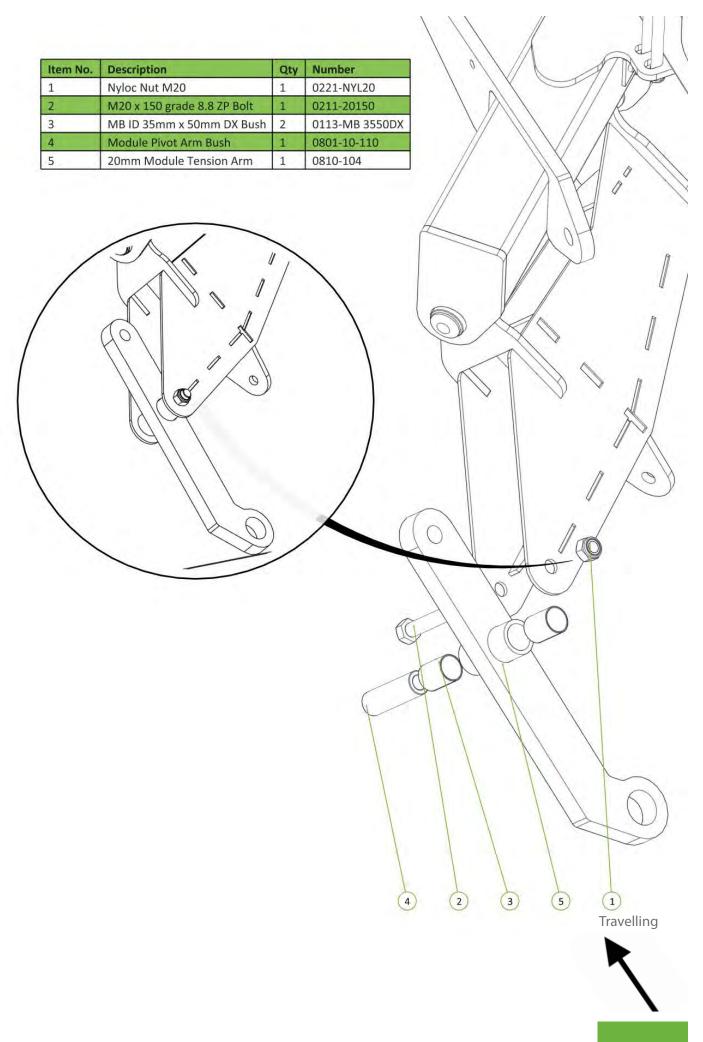


| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | Wear Bush | 1 | 0801-SSB |
| 2 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 3 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 4 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 5 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 6 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 7 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |

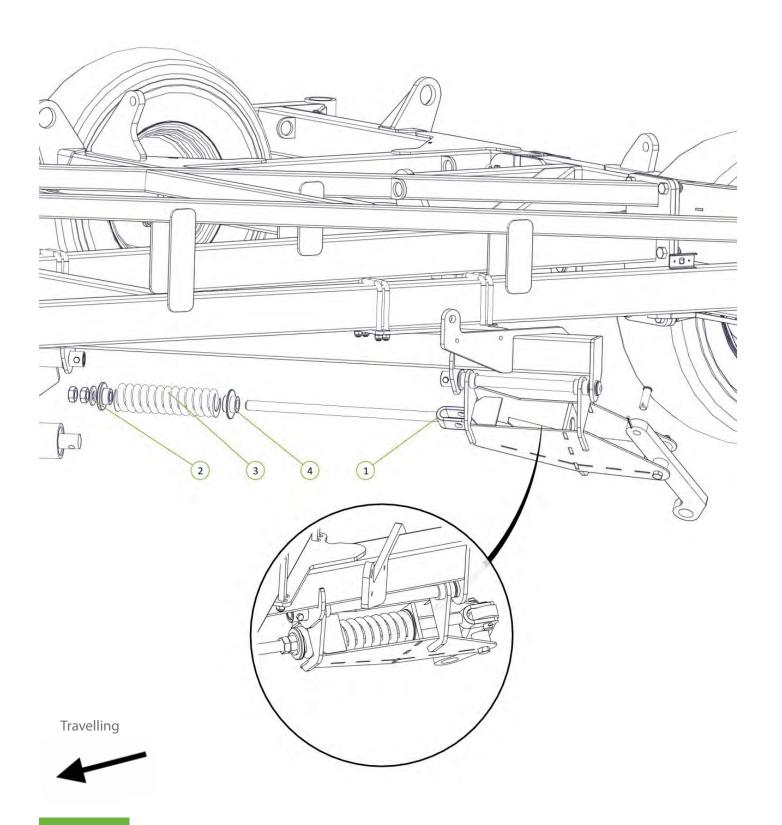


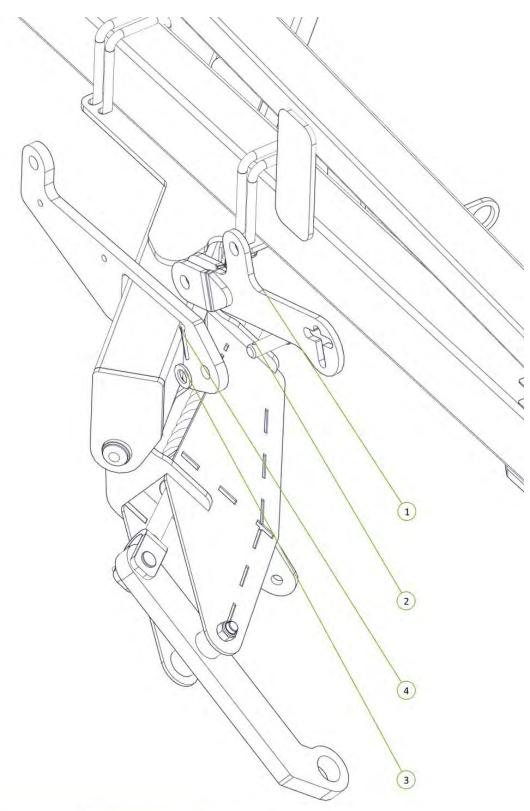
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Front Module Tension body | 1 | 0810-103F |
| 2 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 3 | Nyloc Nut M12 | 1 | 0221-NYL12 |
| 4 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 5 | Washer High Tensile 1 3/8" | 1 | 0232-HT13-8 |





| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|--------------|
| 1 | Module Tension Rod Assembly | 1 | 0810-105A |
| 2 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |
| 3 | 20mm Compression Spring, Black | 1 | 0801-XK9261S |
| 4 | Rigid Spring Locator | 1 | 0801-10-S2L |

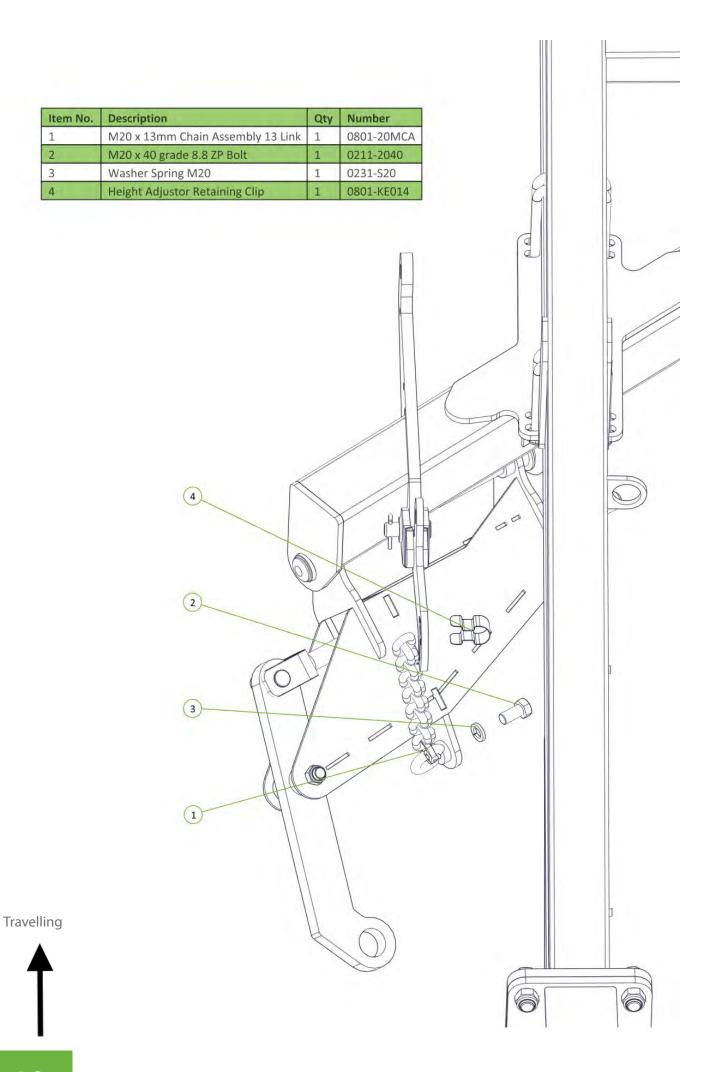




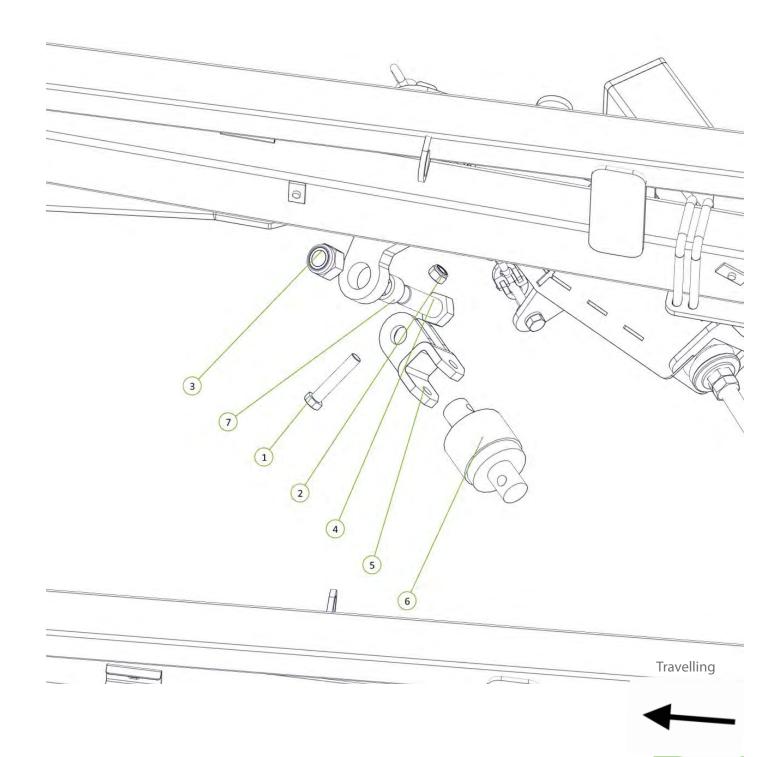
| Item No. | Description | Qty | Number |
|----------|------------------------|-----|---------------|
| 1 | 30' Module Lift Plate | 1 | 0810-106 |
| 2 | Clevis Pin 25mm x 75mm | 1 | 0801-KE0307-1 |
| 3 | Washer Flat M24 | 1 | 0231-F24 |
| 4 | M6 x 50 Cotter Pin | 1 | 0261-PINC650 |



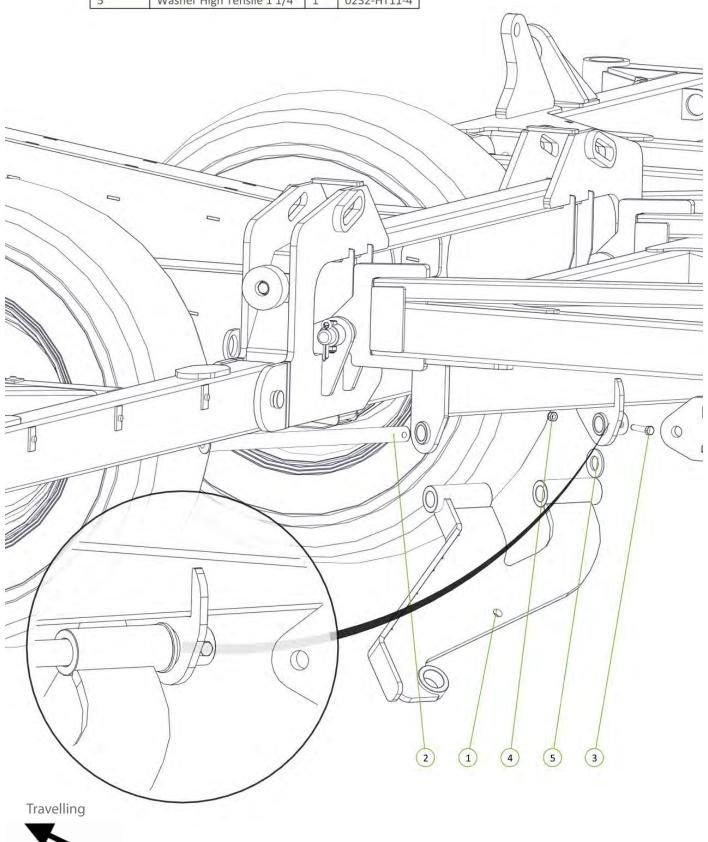




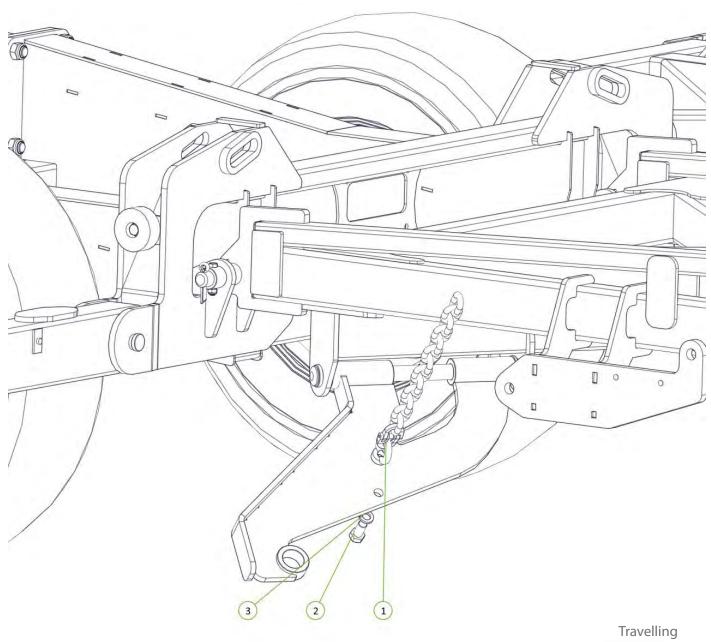
| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 2 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 3 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 4 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 5 | 21mm Bolt on Clevis | 1 | 0801-KE53U |
| 6 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 7 | Wear Bush | 1 | 0801-SSB |



| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Extended Chain Mt Plate | 1 | 1510-22 |
| 2 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 3 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 4 | Nyloc Nut M12 | 1 | 0221-NYL12 |
| 5 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |

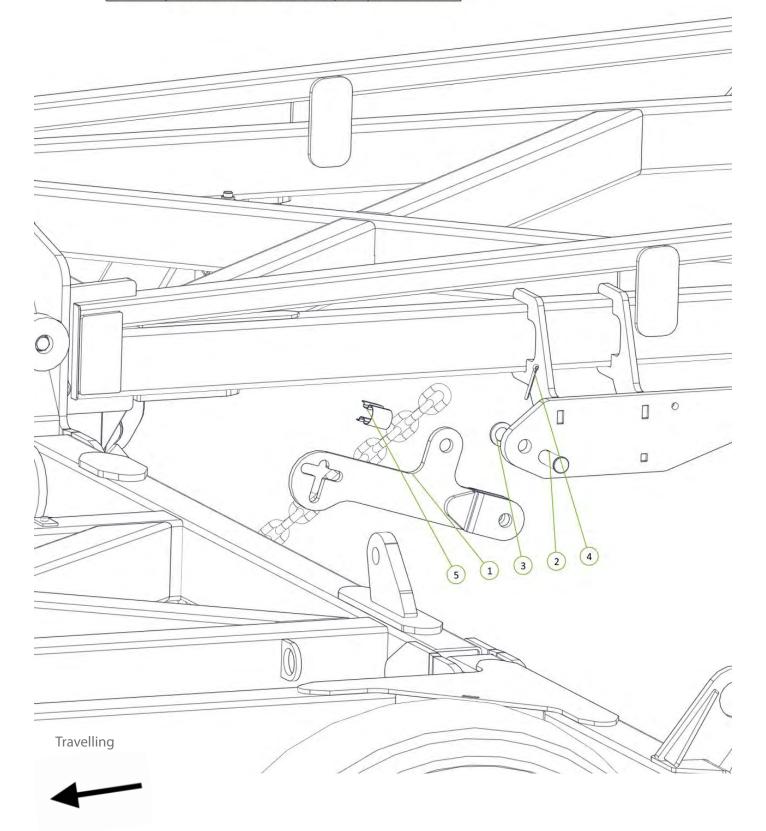


| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |
| 2 | M20 x 50 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 3 | Washer Spring M20 | 1 | 0231-S20 |

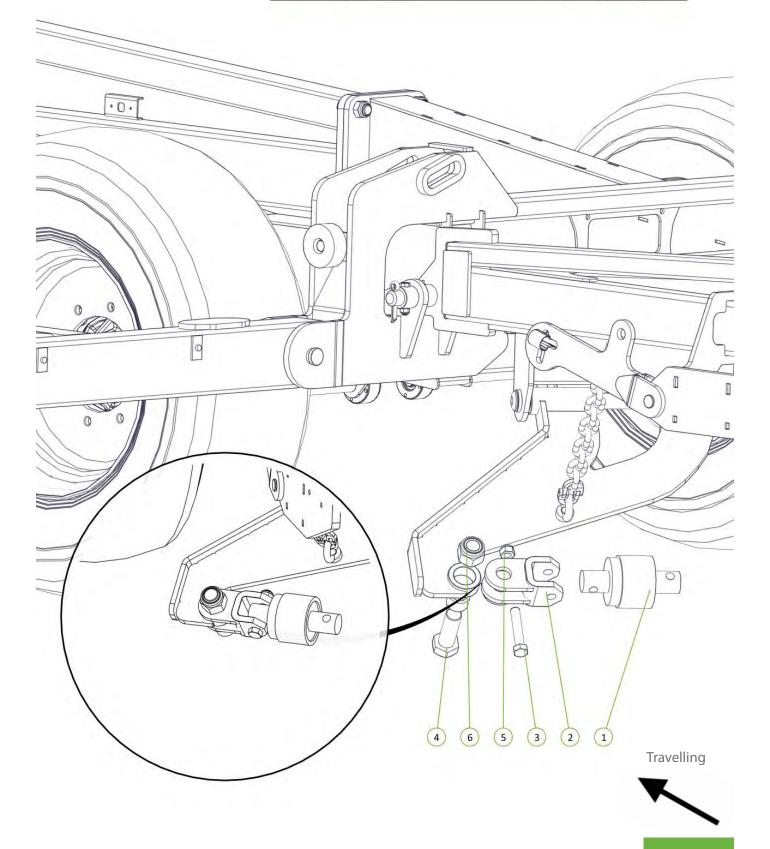




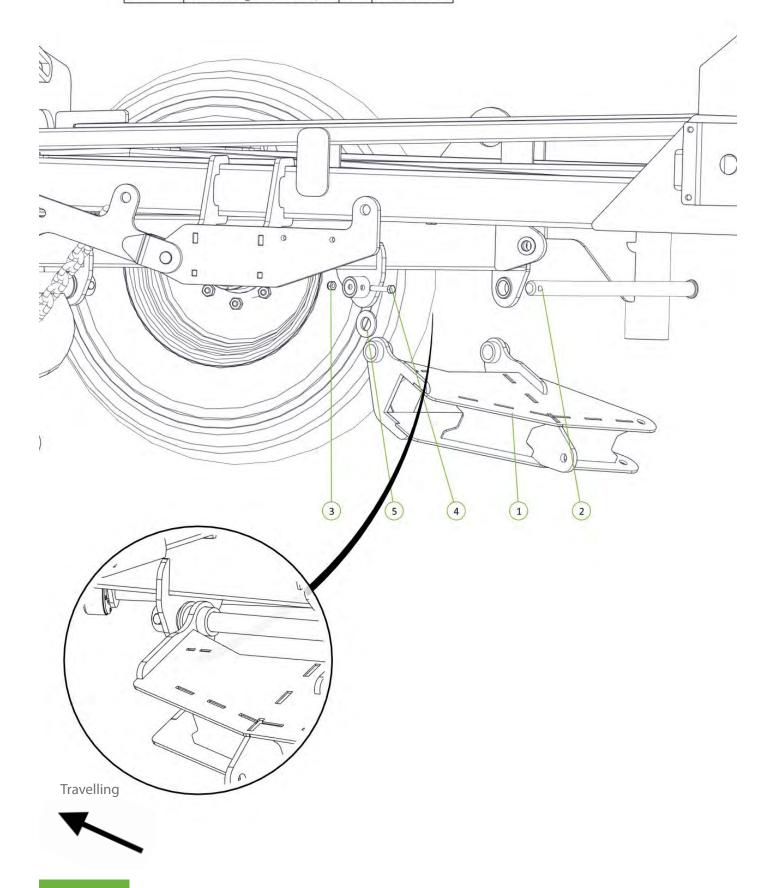
| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|---------------|
| 1 | 30' Module Lift Plate | 1 | 0810-106 |
| 2 | Clevis Pin 25mm x 75mm | 1 | 0801-KE0307-1 |
| 3 | Washer Flat M24 | 1 | 0231-F24 |
| 4 | M6 x 50 Cotter Pin | 1 | 0261-PINC650 |
| 5 | Height Adjustor Retaining Clip | 1 | 0801-KE014 |



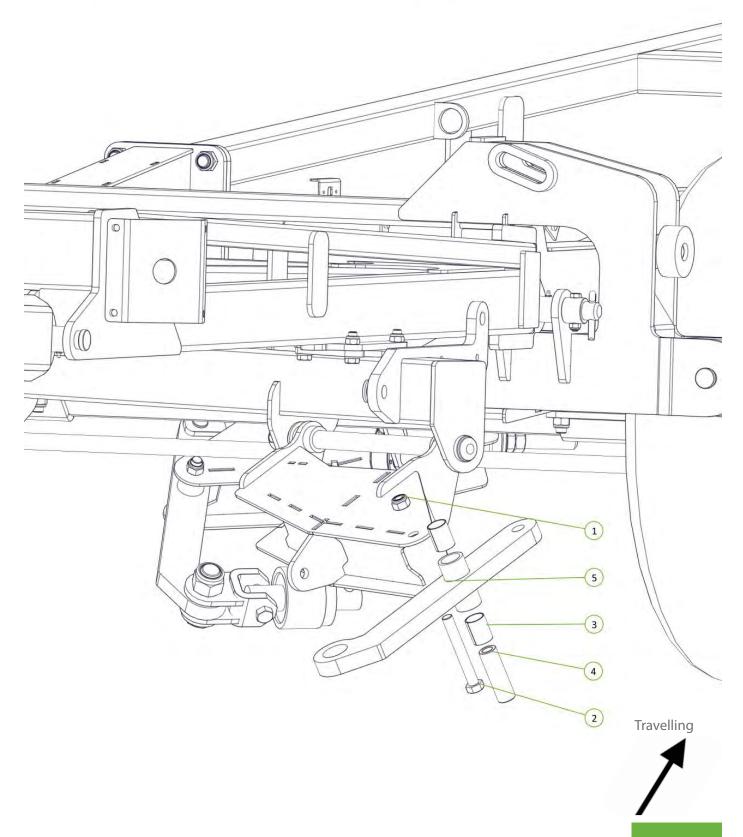
| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 2 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 3 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 4 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 5 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 6 | Nyloc Nut M36 | 1 | 0221-NYL36 |



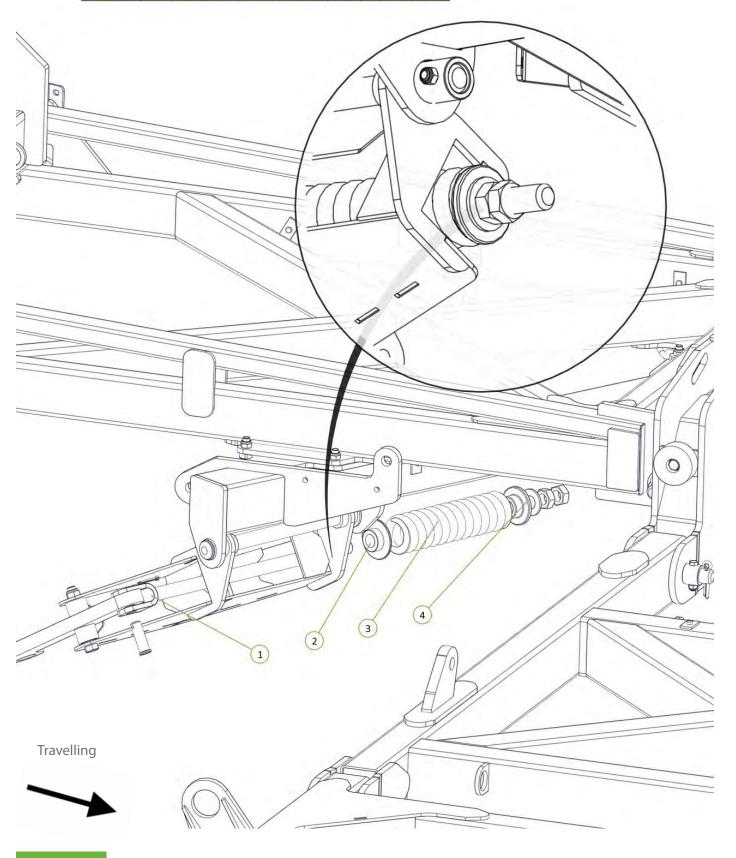
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Rear Module Tension Body | 1 | 0810-103R |
| 2 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 3 | Nyloc Nut M12 | 1 | 0221-NYL12 |
| 4 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 5 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |

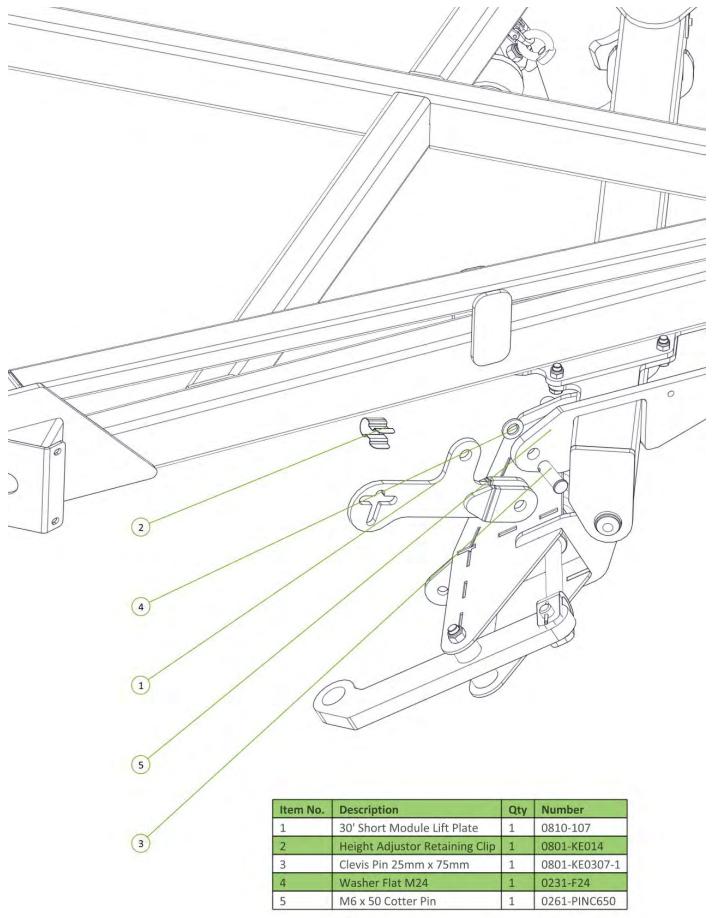


| Item No. | Description | Qty | Number |
|----------|-----------------------------|-----|----------------|
| 1 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 2 | M20 x 150 grade 8.8 ZP Bolt | 1 | 0211-20150 |
| 3 | MB ID 35mm x 50mm DX Bush | 2 | 0113-MB 3550DX |
| 4 | Module Pivot Arm Bush | 1 | 0801-10-110 |
| 5 | Module Tension Arm | 1 | 0810-104 |



| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|--------------|
| 1 | Module Tension Rod Assembly | 1 | 0810-105A |
| 2 | Rigid Spring Locator | 1 | 0801-10-S2L |
| 3 | 20mm Compression Spring, Black | 1 | 0801-XK9261S |
| 4 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |

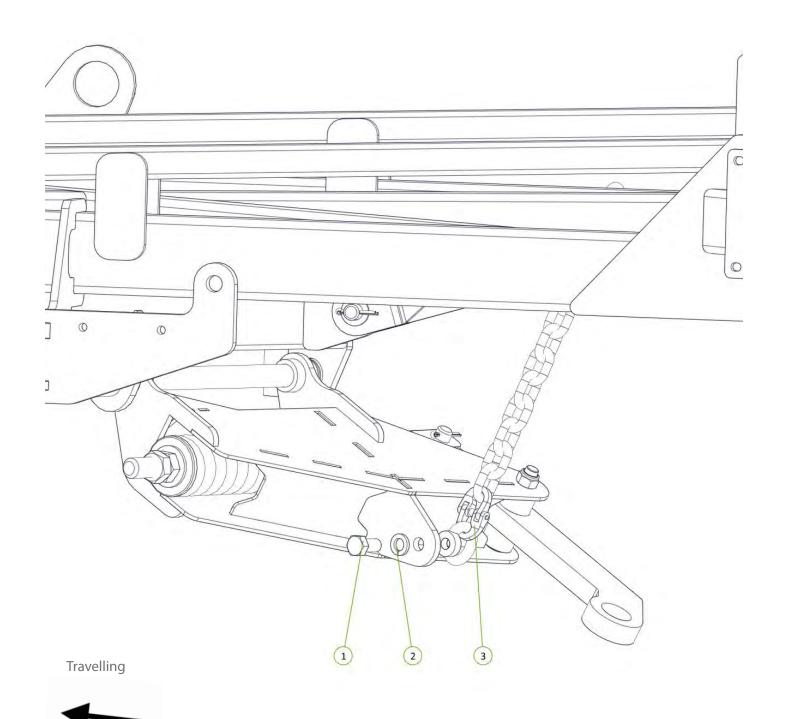




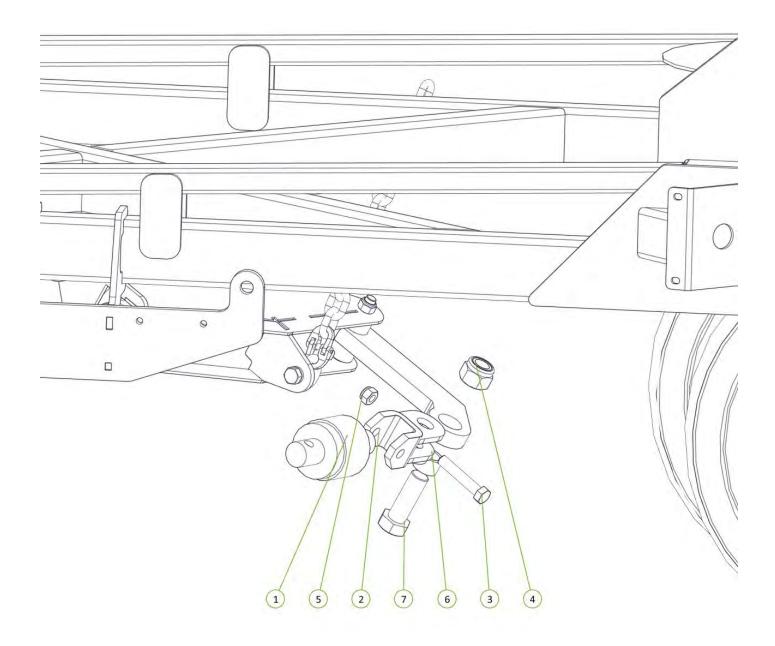
Travelling



| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 50 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 2 | Washer Spring M20 | 1 | 0231-S20 |
| 3 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |



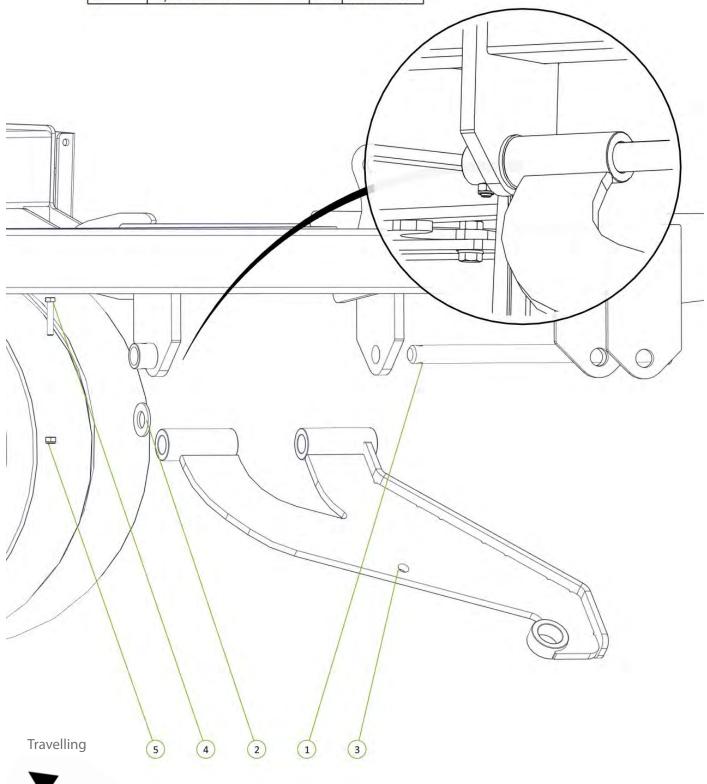
| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 2 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 3 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 4 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 5 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 6 | Wear Bush | 1 | 0801-SSB |
| 7 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |



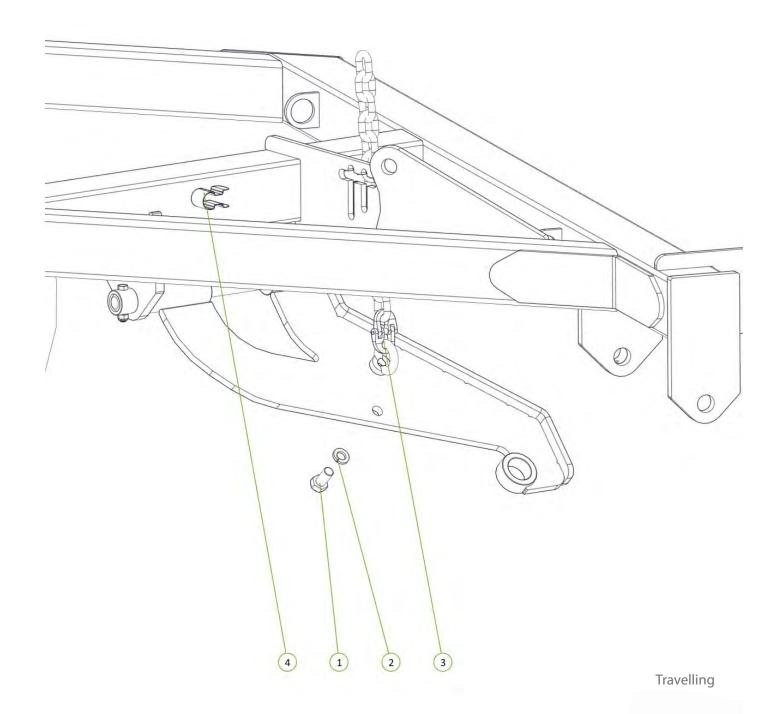
Travelling



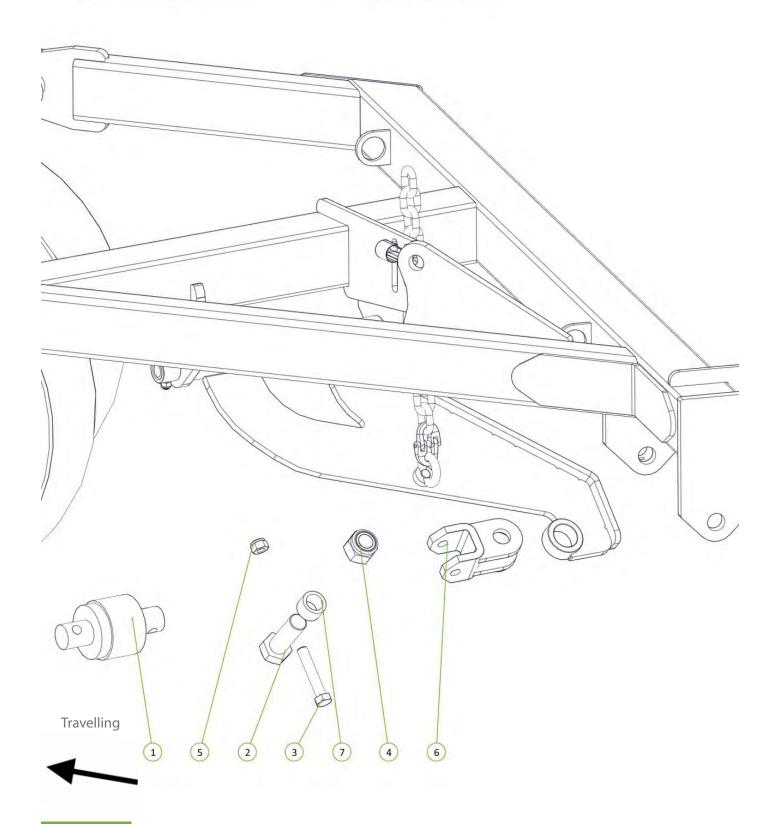
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 2 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |
| 3 | Extended Chain Mount Plate | 1 | 1510-22 |
| 4 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |
| 5 | Nyloc Nut M12 | 1 | 0221-NYL12 |



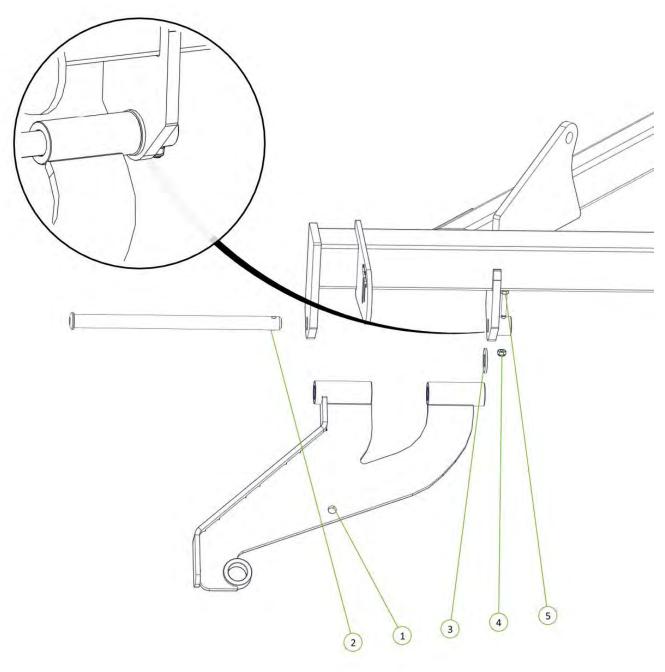
| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 40 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 2 | Washer Spring M20 | 1 | 0231-S20 |
| 3 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |
| 4 | Height Adjustor Retaining Clip | 1 | 0801-KE014 |



| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 2 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 3 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 4 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 5 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 6 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 7 | Wear Bush | 1 | 0801-SSB |

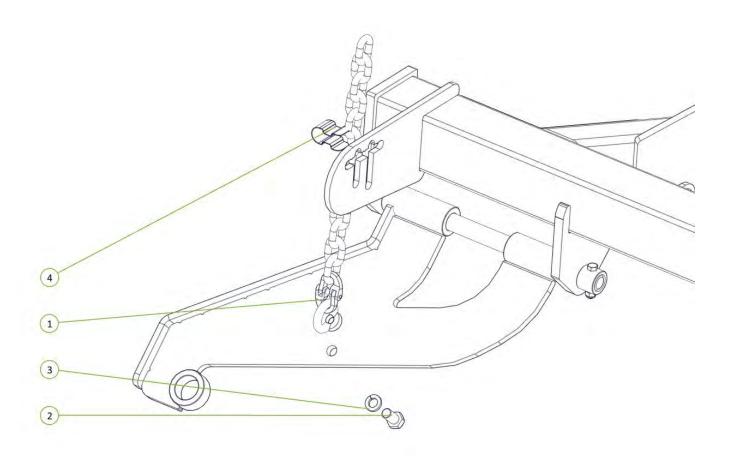


| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-------------|
| 1 | Extended Chain mount Plate | 1 | 1510-22 |
| 2 | Chain Mount Pivot Pin | 1 | 0801-10-51 |
| 3 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |
| 4 | Nyloc Nut M12 | 1 | 0221-NYL12 |
| 5 | M12 x 65 grade 8.8 ZP Bolt | 1 | 0211-1265 |



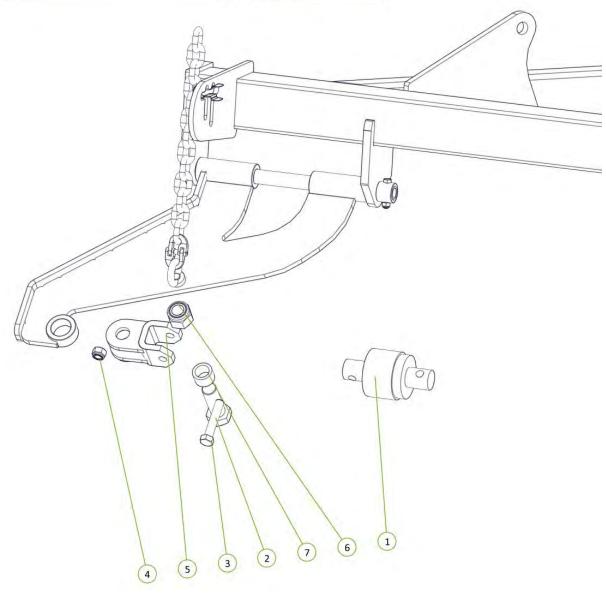


| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|------------|
| 1 | M20 x 13mm Chain Assembly 13 Link | 1 | 0801-20MCA |
| 2 | M20 x 40 grade 8.8 ZP Bolt | 1 | 0211-2040 |
| 3 | Washer Spring M20 | 1 | 0231-S20 |
| 4 | Height Adjustor Retaining Clip | 1 | 0801-KE014 |



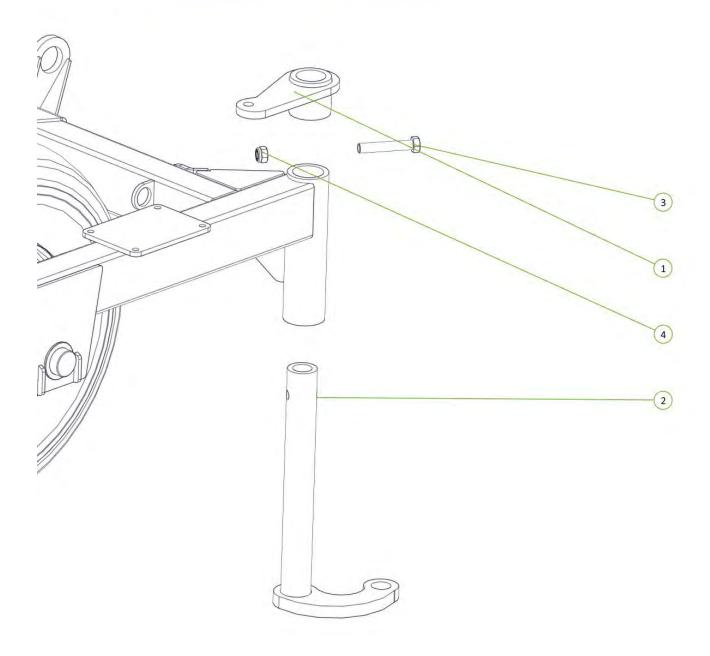


| Item No. | Description | Qty | Number |
|----------|---|-----|-----------------------|
| 1 | 0802-PCHB55 | 1 | 20mm Bolt Swivel Unit |
| 2 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 3 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 4 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 5 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 6 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 7 | Wear Bush | 1 | 0801-SSB |



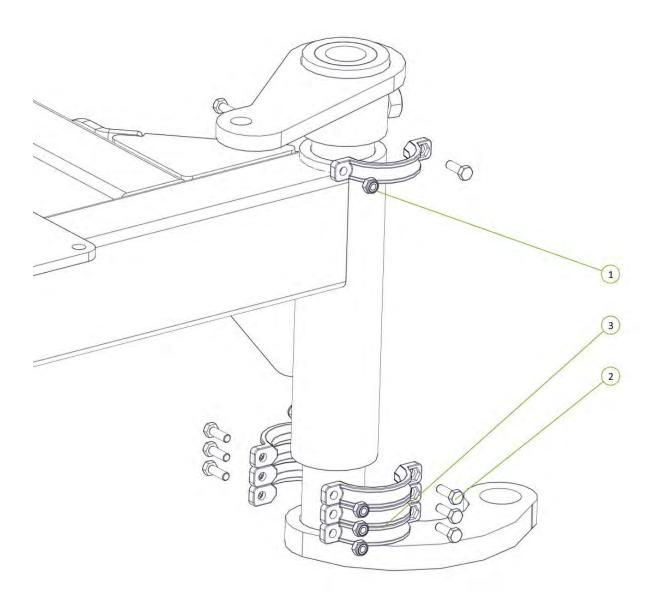


| Item No. | Description | Qty | Number |
|----------|-----------------------------|-----|------------|
| 1 | RH Chain Adjusting Lug | 1 | 0810-27 |
| 2 | RH Drop Leg | 1 | 0810-25 |
| 3 | M24 x 140 grade 8.8 zp Bolt | 1 | 0211-24140 |
| 4 | Nyloc Nut M24 | 1 | 0221-NYL24 |



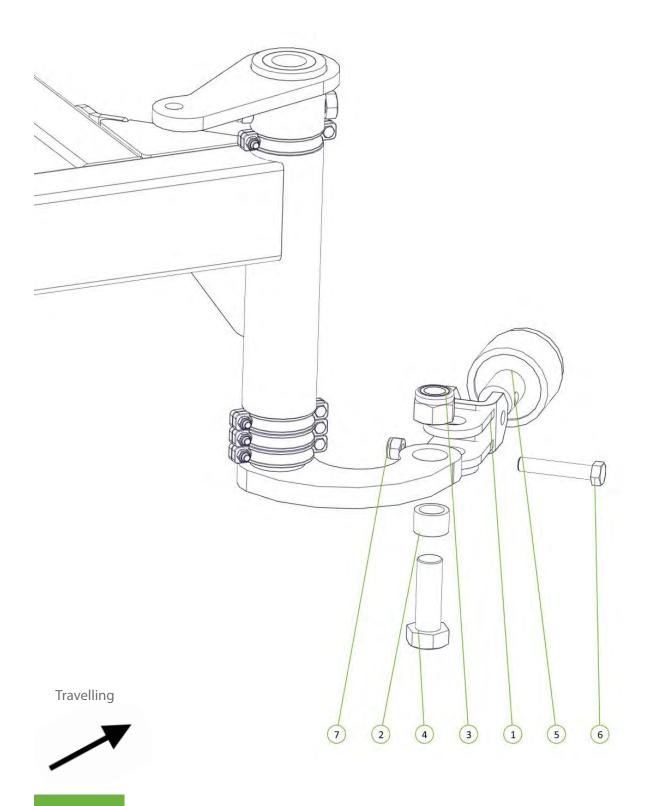


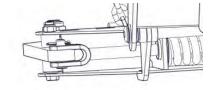
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | Nyloc Nut M10 | 8 | 0221-NYL10 |
| 2 | M10 x 30 grade 8.8 ZP Bolt | 8 | 0211-1030 |
| 3 | 25mm Drop Leg Spacer Half | 8 | 0801-CS25 |



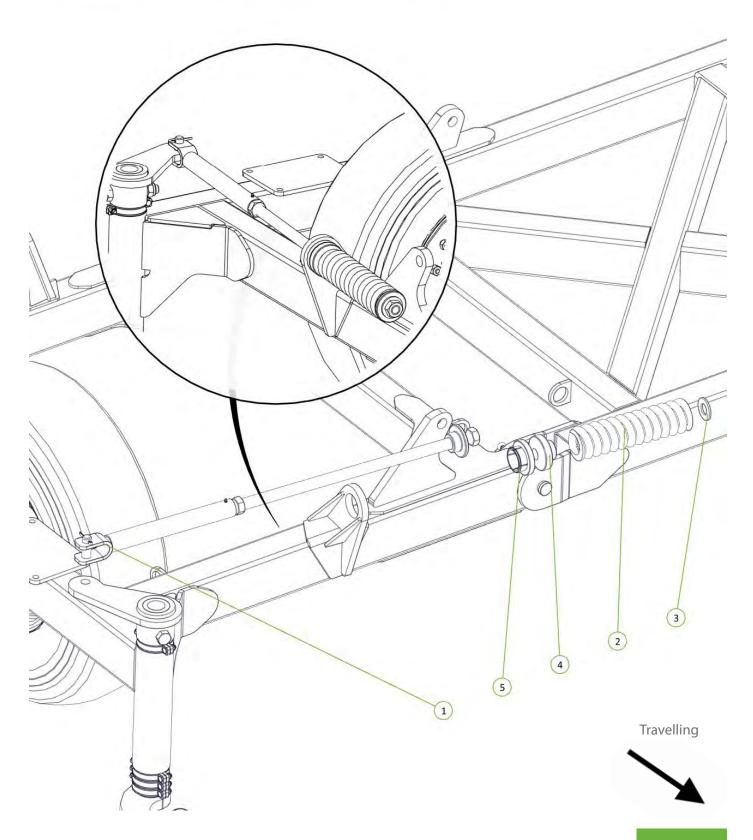


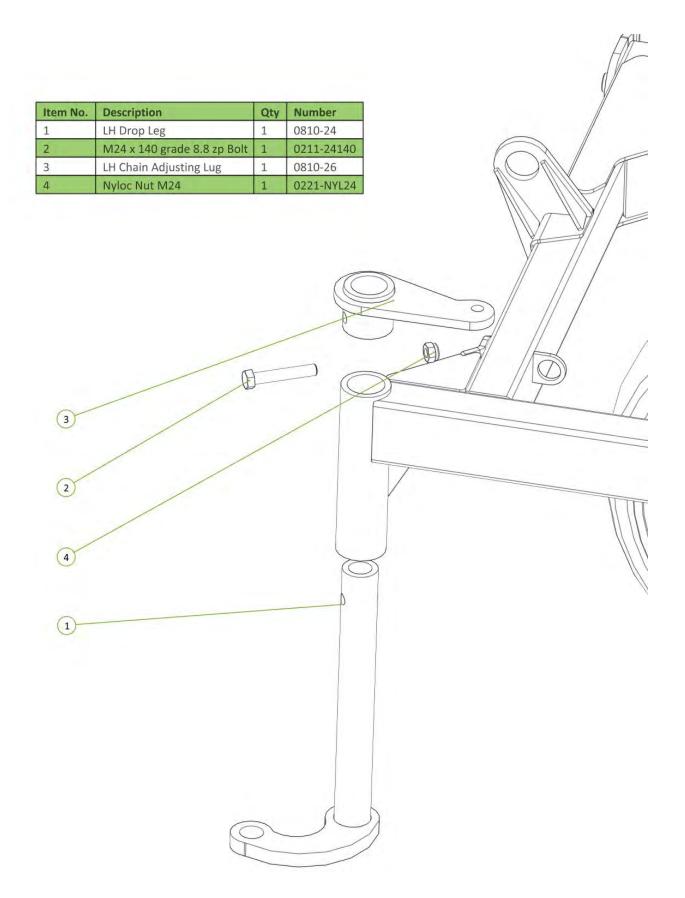
| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | 21mm Bolt on Clevis | 1 | 0810-KE53 |
| 2 | Wear Bush | 1 | 0801-SSB |
| 3 | Nyloc Nut M36 | 1 | 0221-NYL36 |
| 4 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 5 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 6 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 7 | Nyloc Nut M20 | 1 | 0221-NYL20 |





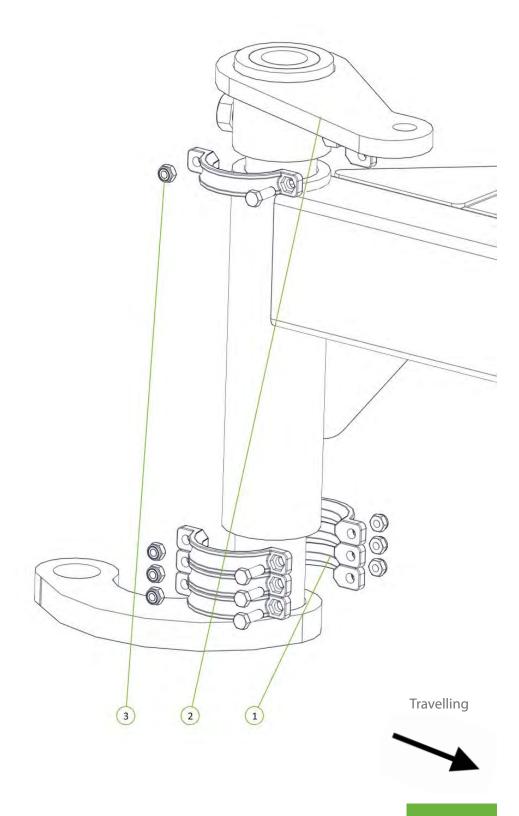
| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|---------------|
| 1 | Chain Tension Adjustor | 1 | 0802-PCHTA |
| 2 | 20mm Compression Spring, Black | 1 | 0801-XK9261S |
| 3 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |
| 4 | Tensioner Cup - Male | 1 |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

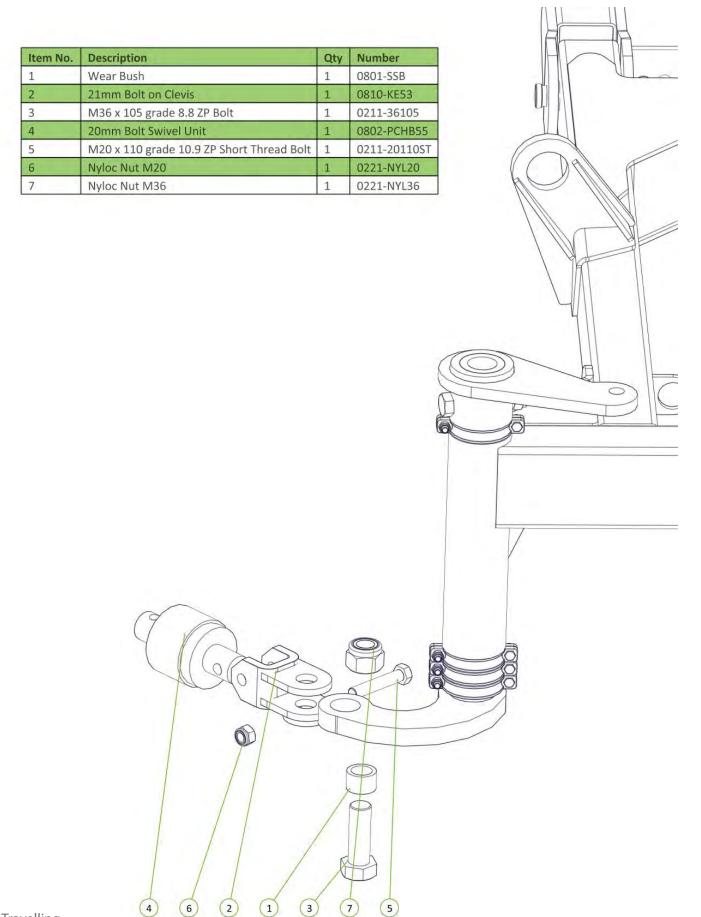






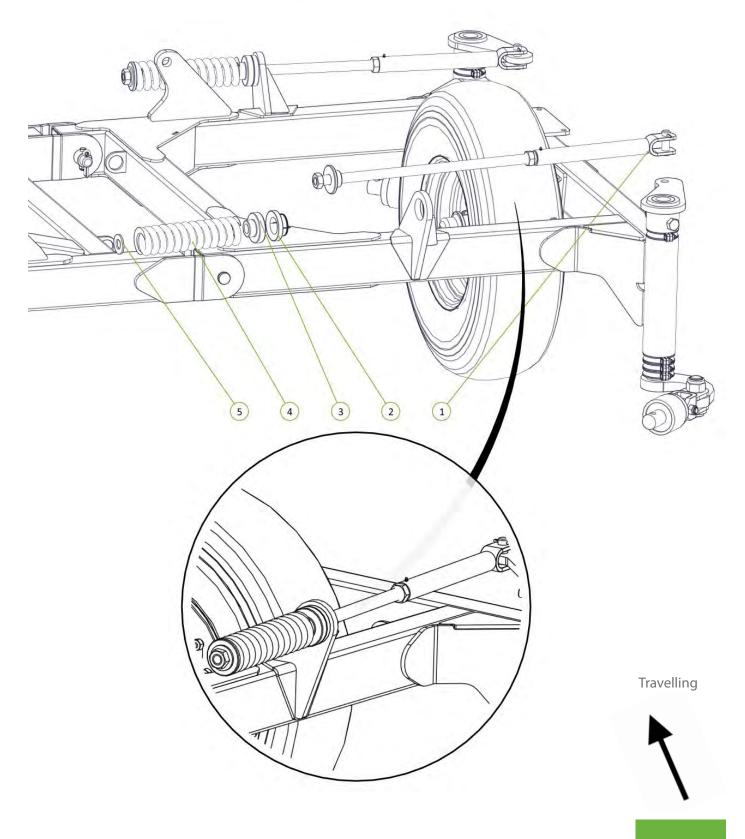
| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | 25mm Drop Leg Spacer Half | 8 | 0801-CS25 |
| 2 | M10 x 30 grade 8.8 ZP Bolt | 8 | 0211-1030 |
| 3 | Nyloc Nut M10 | 8 | 0221-NYL10 |



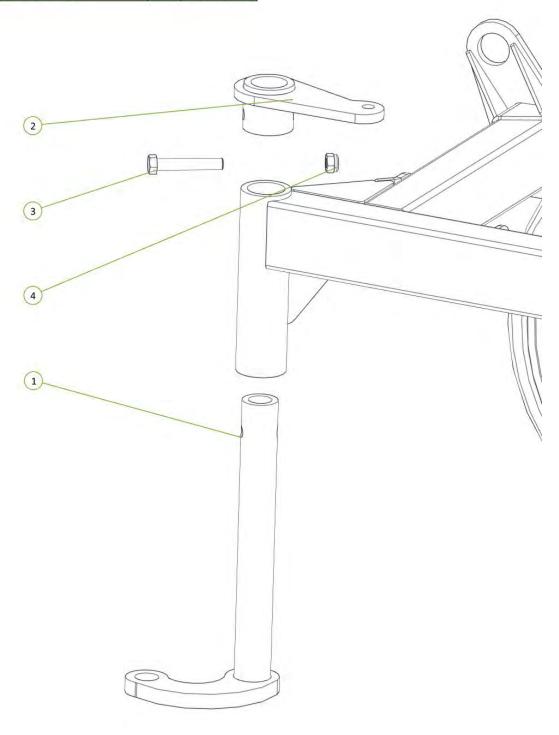




| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|---------------|
| 1 | Chain Tension Adjustor | 1 | 0802-PCHTA |
| 2 | Tensioner Cup-Female | 1 | 0801-KE0805-4 |
| 3 | Tensioner Cup - Male | 1 | 0801-KE0805-3 |
| 4 | 20mm Compression Spring, Black | 1 | 0801-XK9261S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

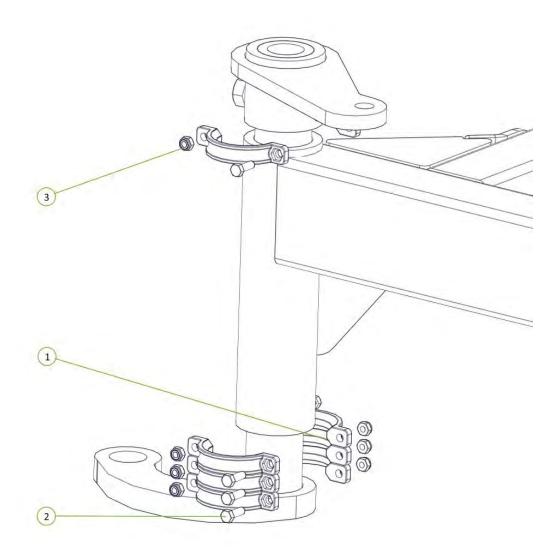


| Item No. | Description | Qty | Number |
|----------|-----------------------------|-----|------------|
| 1 | LH Drop Leg | 1 | 0810-24 |
| 2 | LH Chain Adjusting Lug | 1 | 0810-26 |
| 3 | M24 x 140 grade 8.8 zp Bolt | 1 | 0211-24140 |
| 4 | Nyloc Nut M24 | 1 | 0221-NYL24 |

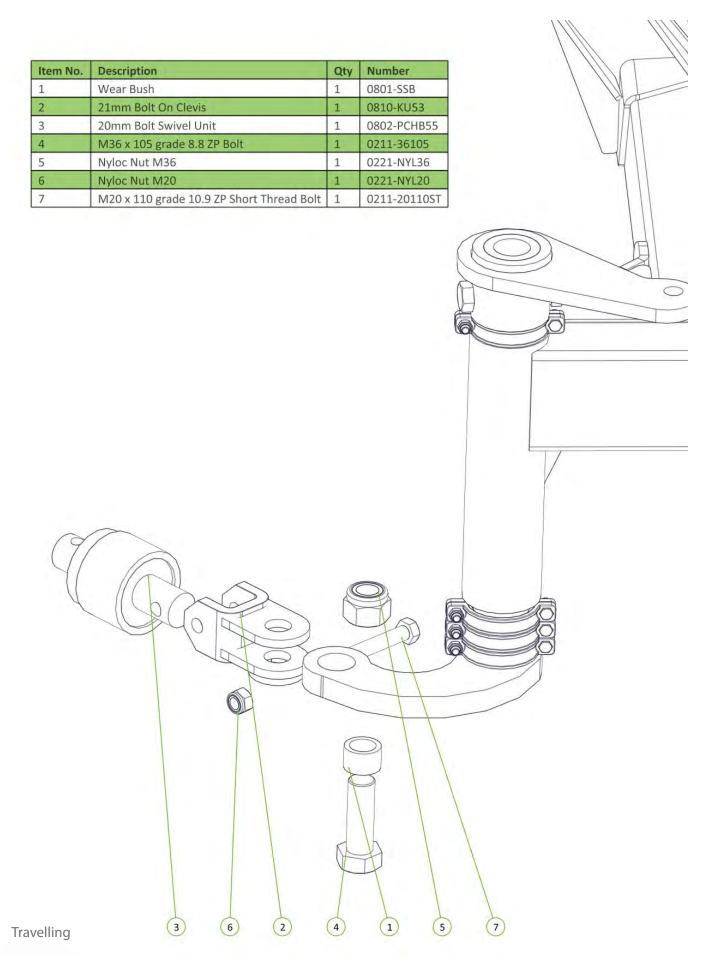




| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | 25mm Drop Leg Spacer Half | 8 | 0801-CS25 |
| 2 | M10 x 30 grade 8.8 ZP Bolt | 8 | 0211-1030 |
| 3 | Nyloc Nut M10 | 8 | 0221-NYL10 |

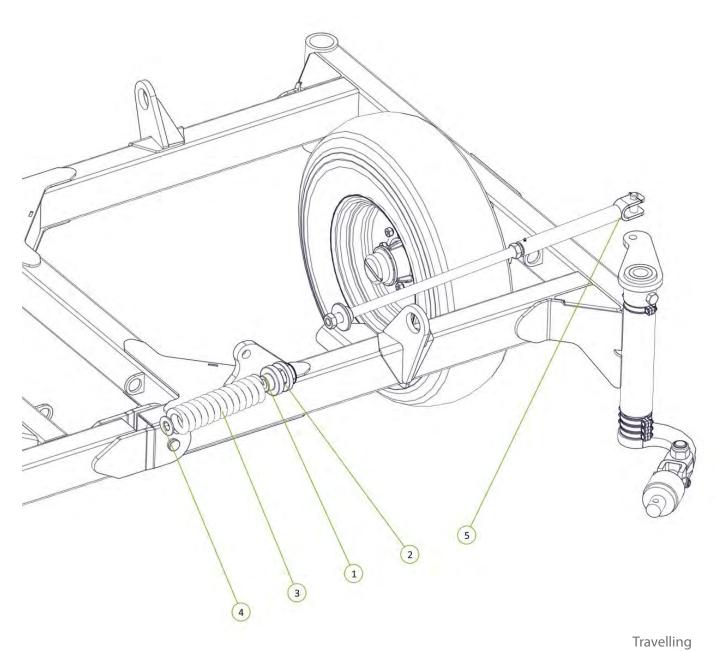






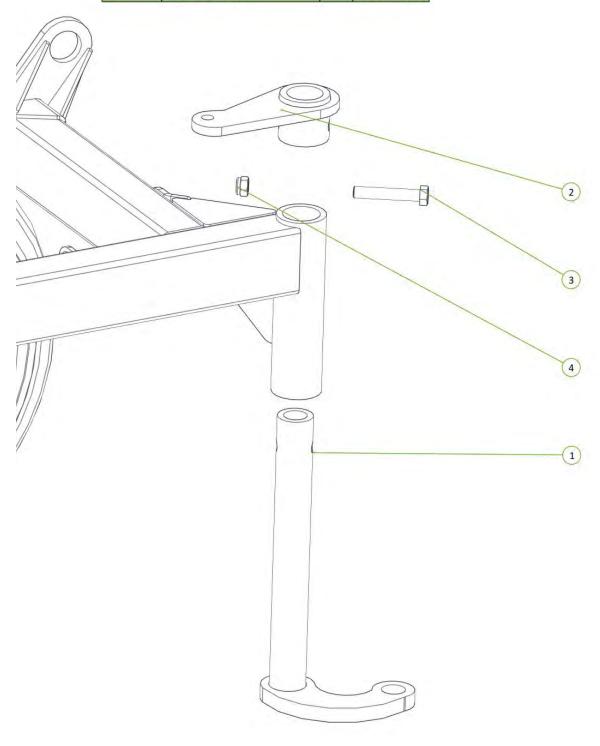


| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|---------------|
| 1 | Tensioner Cup - Male | 1 | 0801-KE0805-3 |
| 2 | Tensioner Cup-Female | 1 | 0801-KE0805-4 |
| 3 | 20mm Compression Spring, Black | 1 | 0801-XK9261S |
| 4 | Washer High Tensile 1 1/4" |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



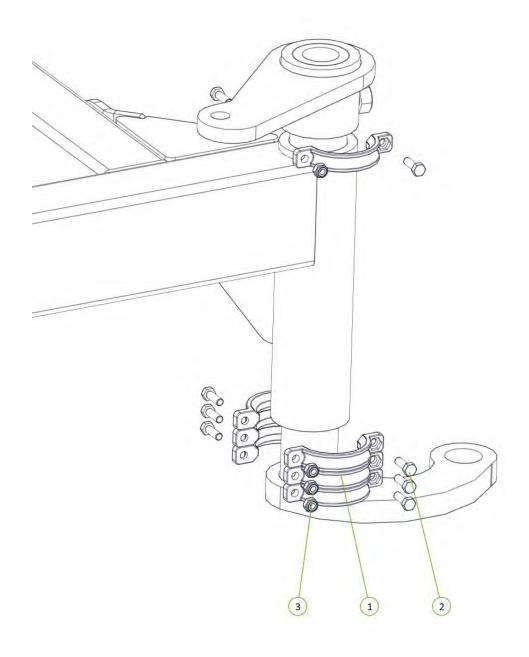


| Item No. | Description | Qty | Number |
|----------|-----------------------------|-----|------------|
| 1 | RH Drop leg | 1 | 0810-25 |
| 2 | RH Chain Adjusting Lug | 1 | 0810-27 |
| 3 | M24 x 140 grade 8.8 zp Bolt | 1 | 0211-24140 |
| 4 | Nyloc Nut M24 | 1 | 0221-NYL24 |



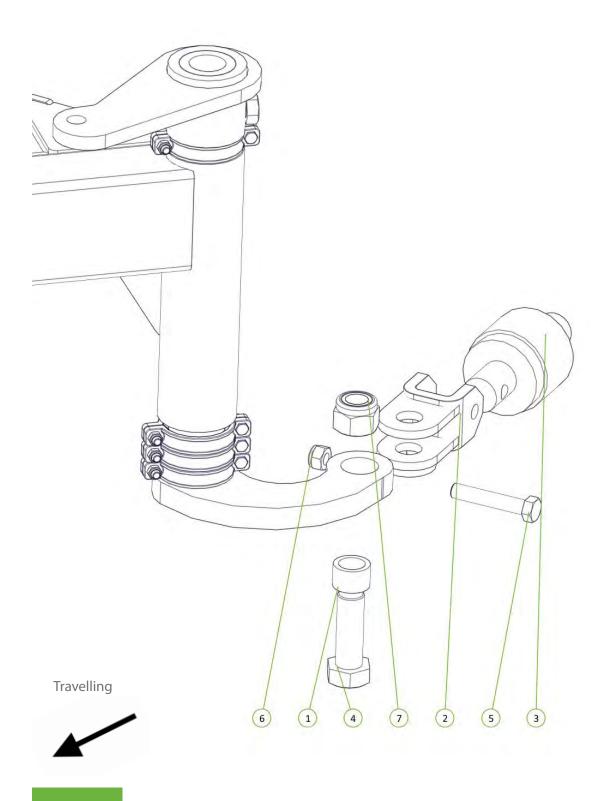


| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | 25mm Drop Leg Spacer Half | 8 | 0801-CS25 |
| 2 | M10 x 30 grade 8.8 ZP Bolt | 8 | 0211-1030 |
| 3 | Nyloc Nut M10 | 8 | 0221-NYL10 |

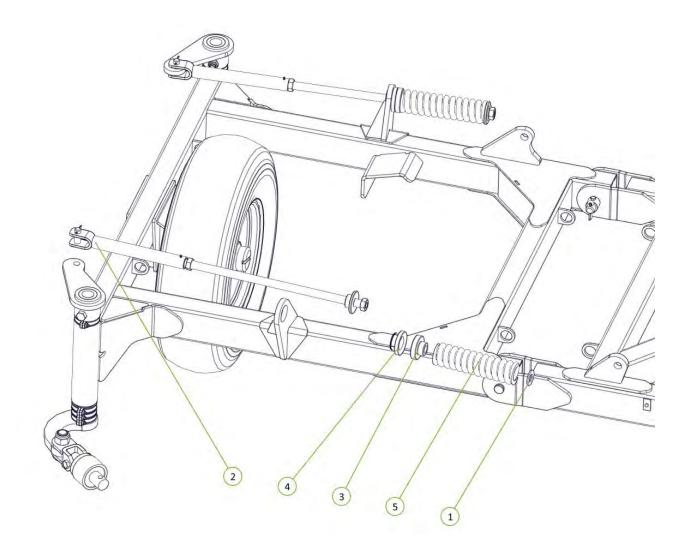




| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | Wear Bush | 1 | 0801-SSB |
| 2 | 21mm Bolt On Clevis | 1 | 0810-KU53 |
| 3 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 4 | M36 x 105 grade 8.8 ZP Bolt | 1 | 0211-36105 |
| 5 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 6 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 7 | Nyloc Nut M36 | 1 | 0221-NYL36 |

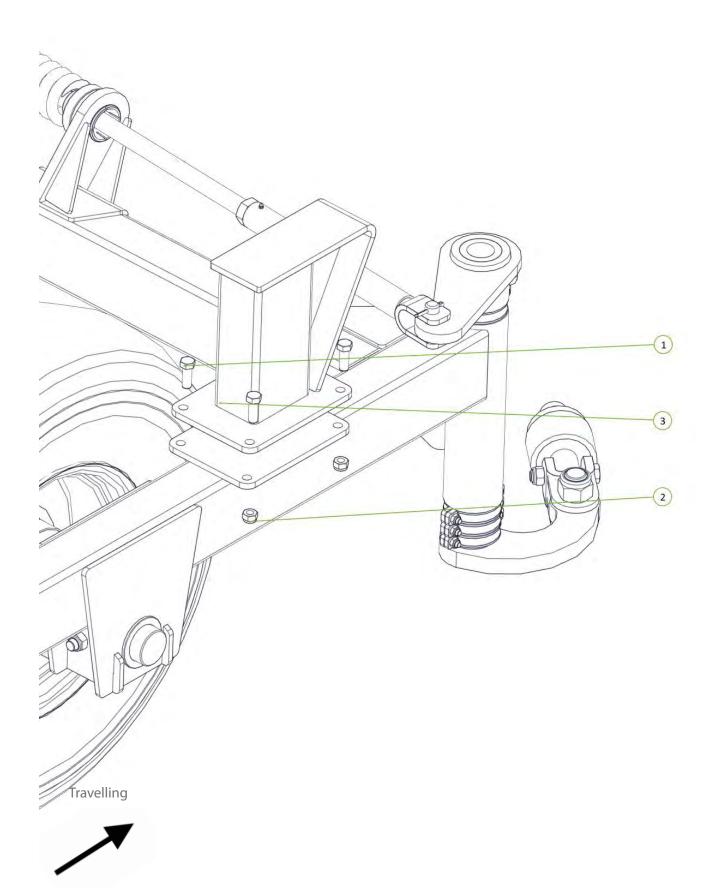


| Item No. | Description | Qty | Number |
|----------|--------------------------------|-----|---------------|
| 1 | Washer High Tensile 1 1/4" | 1 | 0232-HT11-4 |
| 2 | Chain Tension Adjustor | 1 | 0802-PCHTA |
| 3 | Tensioner Cup - Male | 1 | 0801-KE0805-3 |
| 4 | Tensioner Cup-Female | 1 | 0801-KE0805-4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

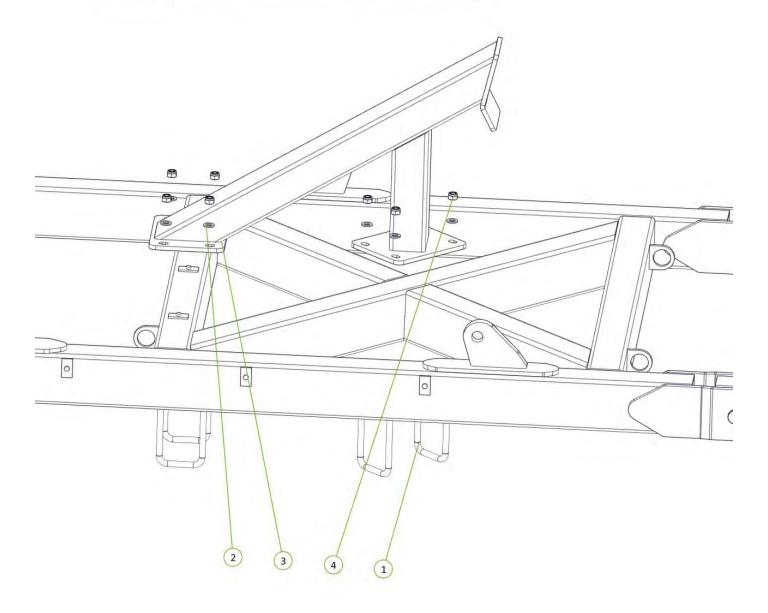




| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|------------|
| 1 | M16 x 45 grade 8.8 zp Bolt | 4 | 0211-1645 |
| 2 | Nyloc Nut M16 | 4 | 0221-NYL16 |
| 3 | Outer Wing Post | 1 | 1530-06P |

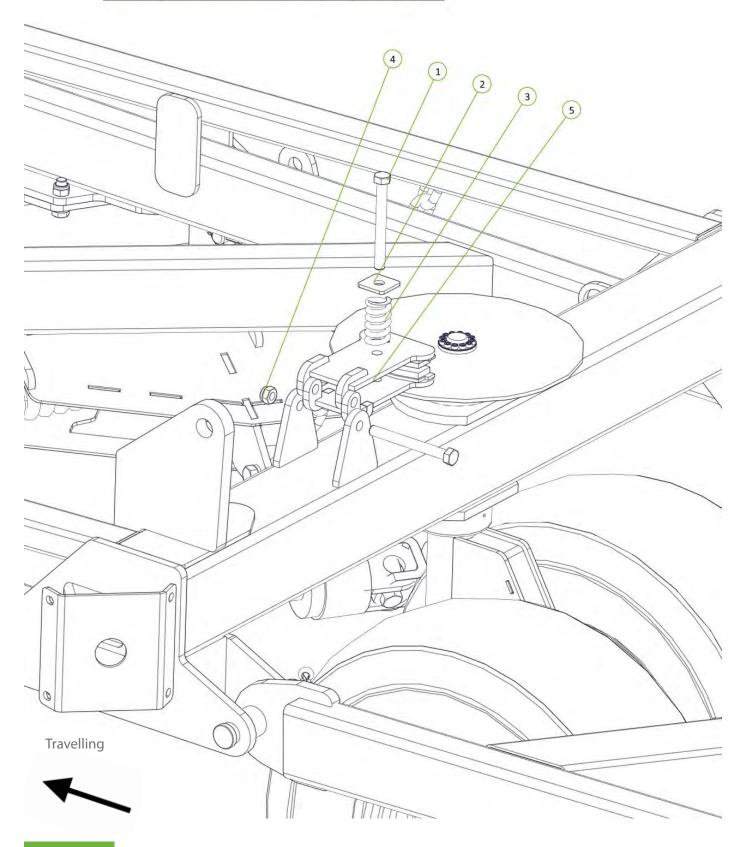


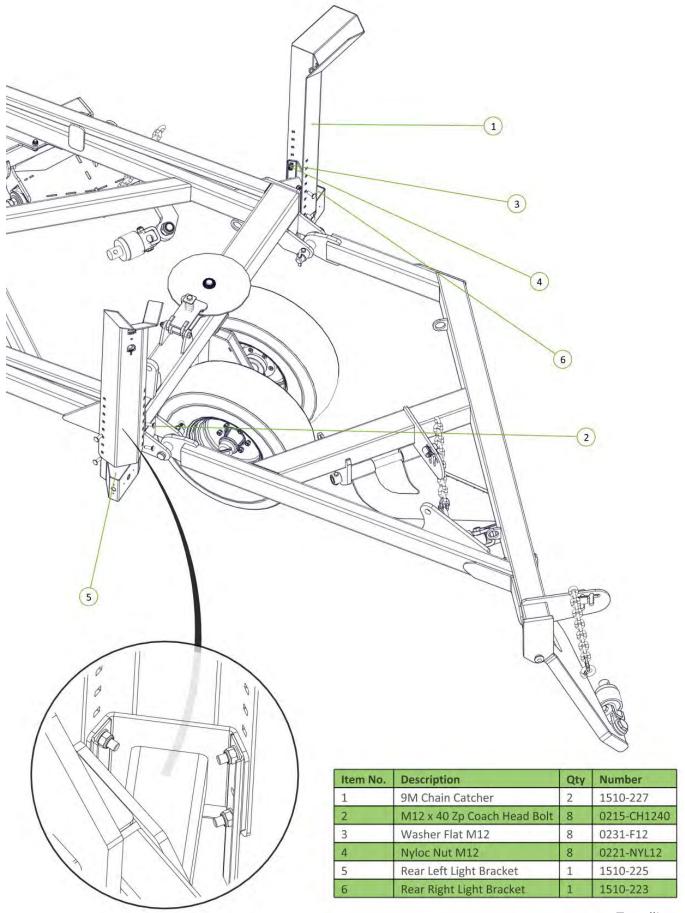
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|---------------|
| 1 | U-Bolt M16 x 185 Deep x 104 Wide | 4 | 0271-16185104 |
| 2 | Washer Flat M16 | 8 | 0231-F16 |
| 3 | Inner Wing post | 1 | 1530-04P |
| 4 | Nyloc Nut M16 | 8 | 0221-NYL16 |





| Item No. | Description | Qty | Number |
|----------|-----------------------------|-----|--------------|
| 1 | M16 x 150 grade 8.8 zp Bolt | 2 | 0211-16150 |
| 2 | Washer Square M16x50x5 | 1 | 0231-SQ16505 |
| 3 | Brake Compression Spring | 1 | 0801-KE009 |
| 4 | Nyloc Nut M16 | 1 | 0221-NYL16 |
| 5 | Jockey Wheel Brake Caliper | 1 | 0810-12CAL |

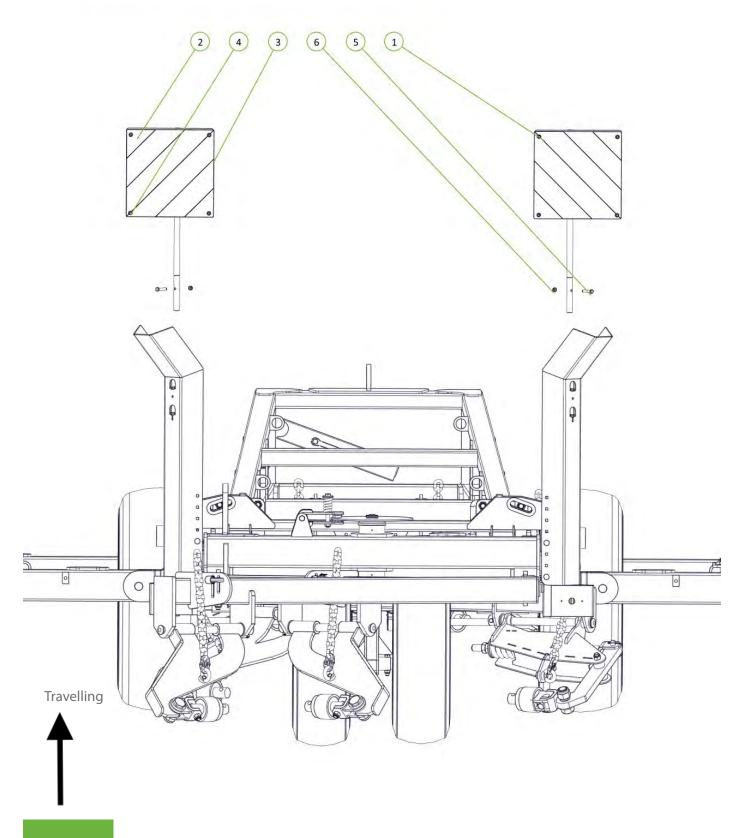




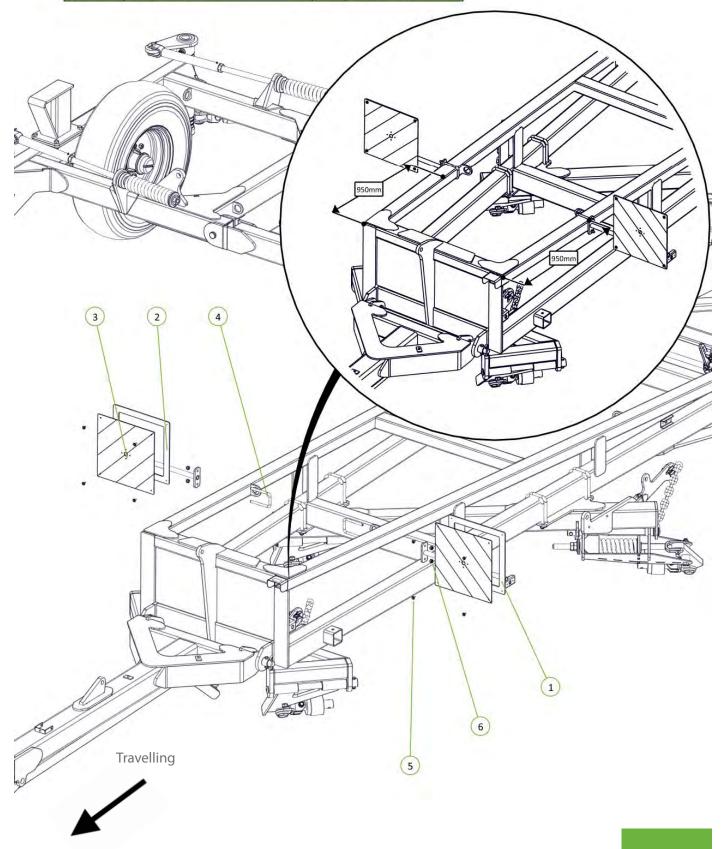
Travelling

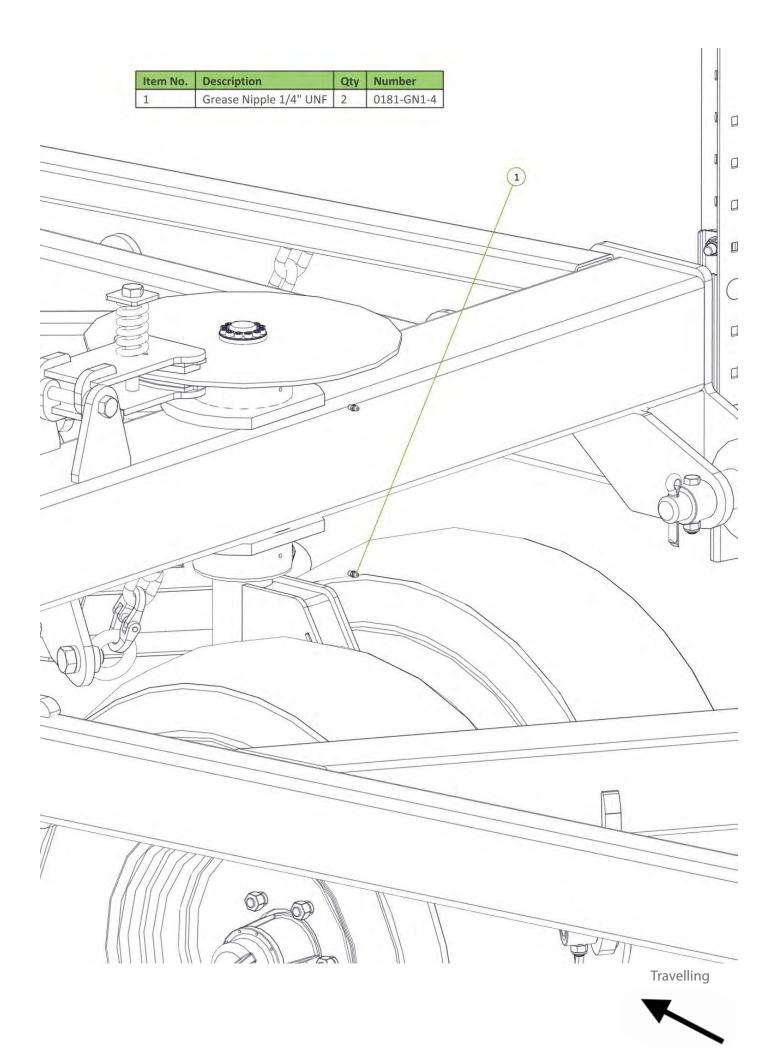


| Item No. | Description | Qty | Number |
|----------|----------------------------|-----|-----------------|
| 1 | Rear Right EUOS Sign Frame | 1 | 1510-32 |
| 2 | Rear Left EUOS Sign Frame | 1 | 1510-31 |
| 3 | EU Oversize sign | 2 | 1501-EUOS2 |
| 4 | M6 x 20mm Trilobe Screw | 8 | 0211-M620MZPHTF |
| 5 | M10 x 55 grade 8.8 ZP Bolt | 2 | 0211-1055 |
| 6 | Nyloc Nut M10 | 2 | 0221-NYL10 |



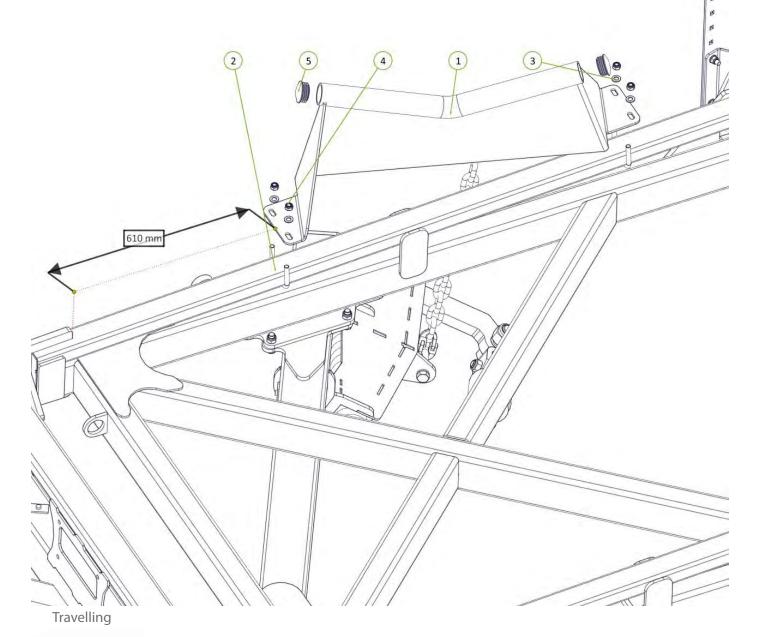
| Item No. | Description | Qty | Number |
|----------|-----------------------------------|-----|-----------------|
| 1 | Front Left EUOS Sign Frame | 1 | 1510-33 |
| 2 | Front Right EUOS Sign Frame | 1 | 1510-34 |
| 3 | European Oversize Sign 3 | 2 | 1501-EUOS3 |
| 4 | U-Bolt M12 x 135 Deep x 77 Wide | 2 | 0271-1213577 |
| 5 | M6 x 20 Trilobe self tapping Scew | 8 | 0211-M620MZPHTF |
| 6 | Nyloc Nut M12 | 4 | 0221-NYL12 |







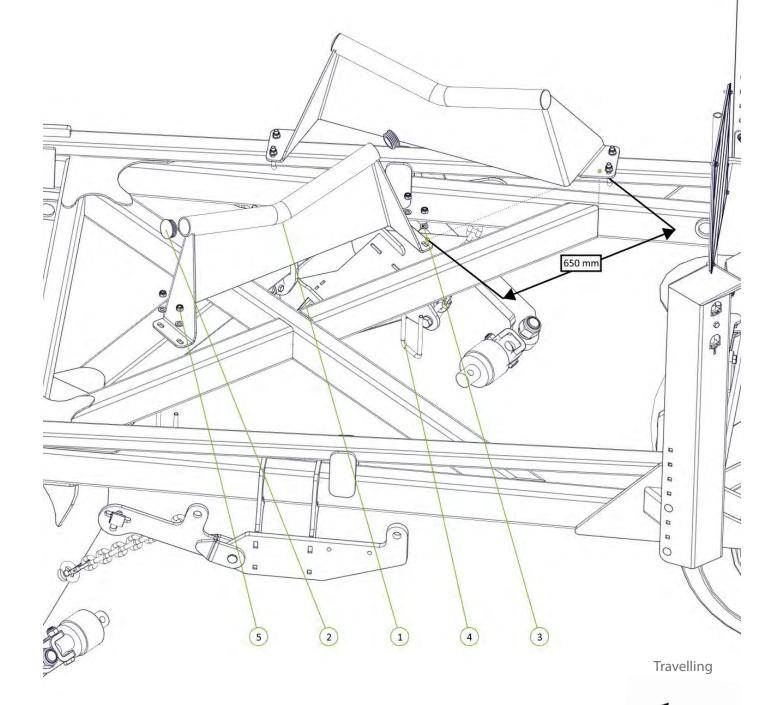
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|----------------|
| 1 | Left Hand M | 1 | 0810-19L |
| 2 | U-Bolt M12 x 80 Deep x 77 Wide | 2 | 0271-128077 |
| 3 | Washer Flat M12 | 4 | 0231-F12 |
| 4 | Nyloc Nut M12 | 4 | 0221-NYL12 |
| 5 | Round Tube Insert 60.3 x 3.2-5mm | 2 | 0264-RTRi-5584 |

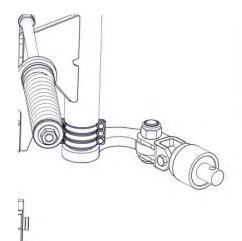




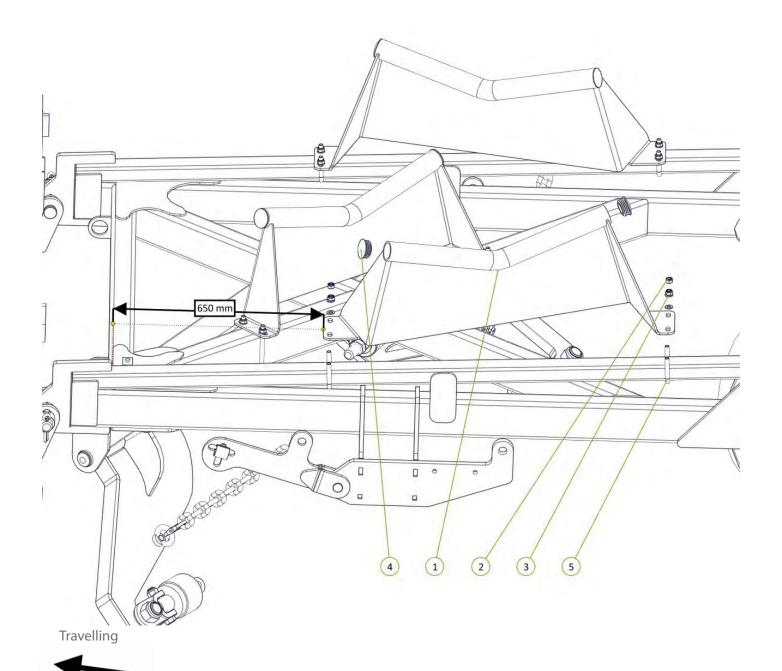


| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|----------------|
| 1 | Rear M | 1 | 0810-19 |
| 2 | Round Tube Insert 60.3 x 3.2-5mm | 2 | 0264-RTRi-5584 |
| 3 | Washer Flat M12 | 4 | 0231-F12 |
| 4 | U-Bolt M12 x 155 Deep x 77 Wide | 2 | 0271-1215577 |
| 5 | Nyloc Nut M12 | 4 | 0221-NYL12 |

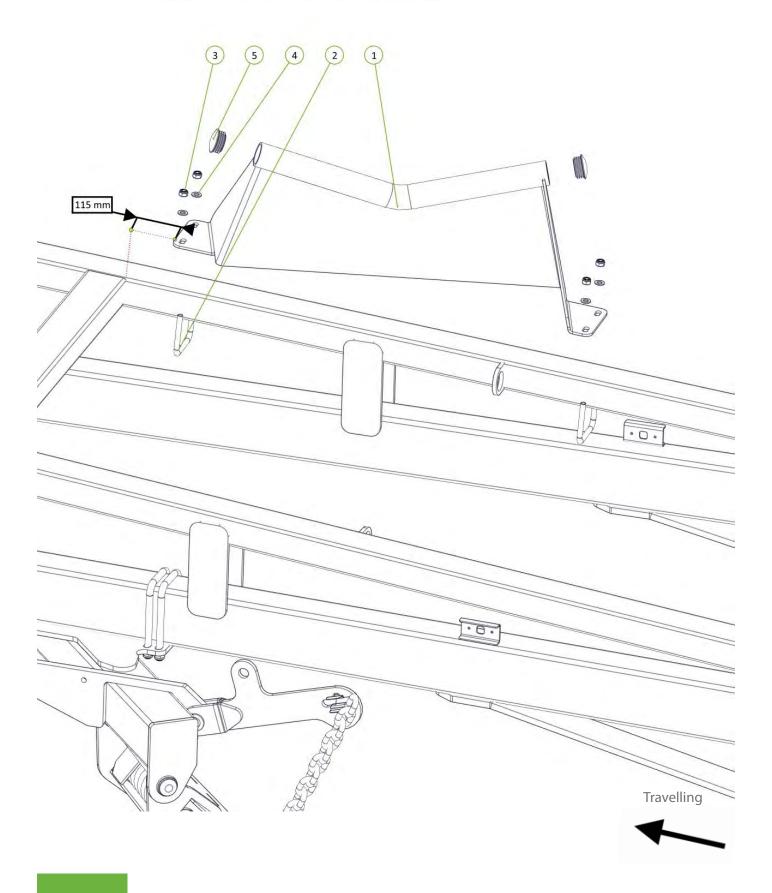




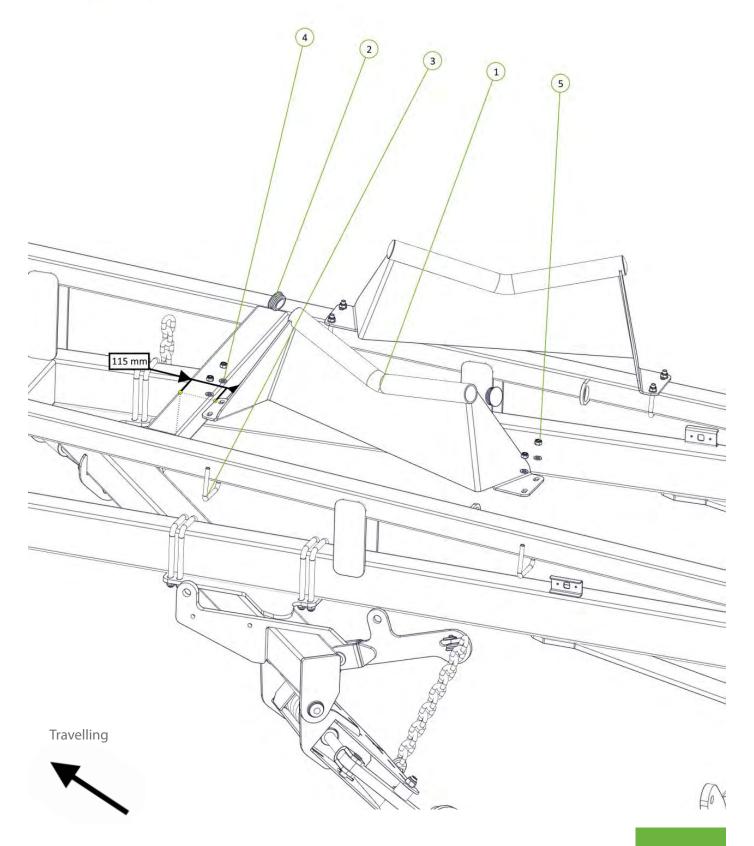
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|----------------|
| 1 | Right Hand M | 1 | 0810-18R |
| 2 | Nyloc Nut M12 | 4 | 0221-NYL12 |
| 3 | Washer Flat M12 | 4 | 0231-F12 |
| 4 | Round Tube Insert 60.3 x 3.2-5mm | 2 | 0264-RTRi-5584 |
| 5 | U-Bolt M12 x 80 Deep x 77 Wide | 2 | 0271-128077 |



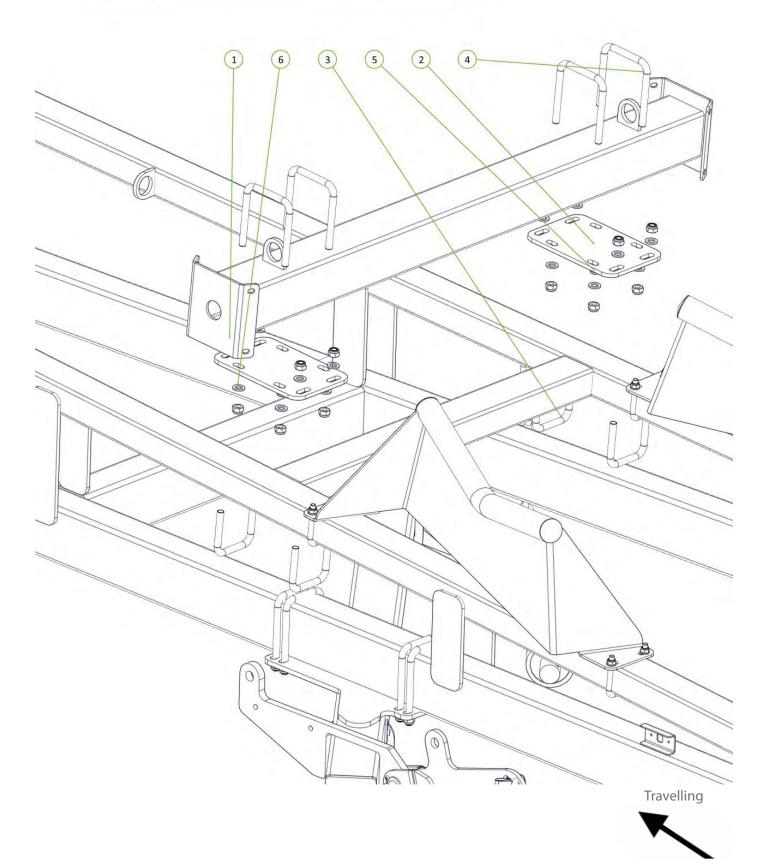
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|----------------|
| 1 | Right Hand M | 1 | 0810-18R |
| 2 | U-Bolt M12 x 105 Deep x 104 Wide | 2 | 0271-12105104 |
| 3 | Nyloc Nut M12 | 4 | 0221-NYL12 |
| 4 | Washer Flat M12 | 4 | 0231-F12 |
| 5 | Round Tube Insert 60.3 x 3.2-5mm | 2 | 0264-RTRi-5584 |



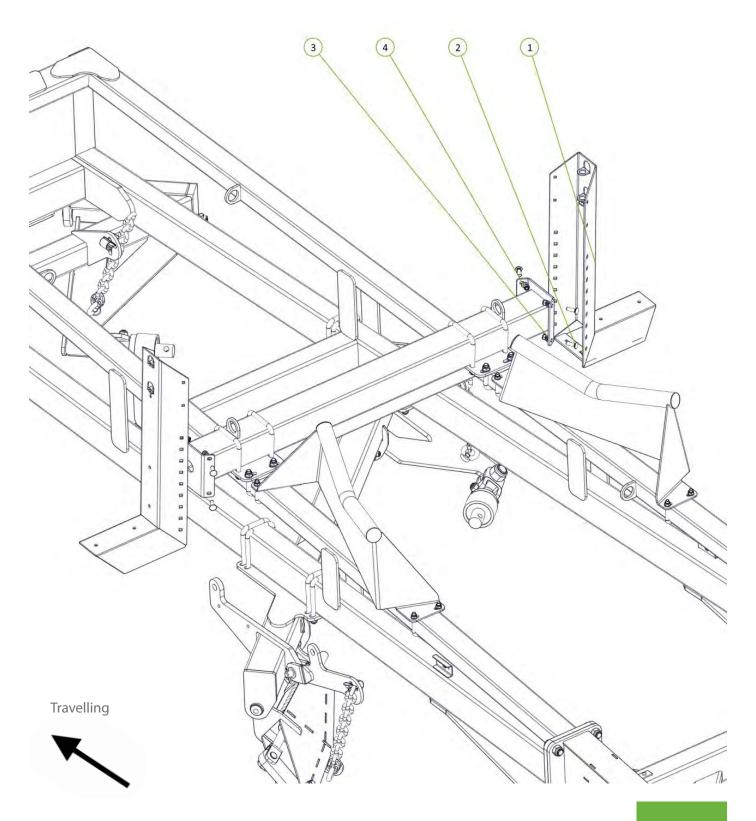
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|----------------|
| 1 | Left Hand M | 1 | 0810-19L |
| 2 | Round Tube Insert 60.3 x 3.2-5mm | 2 | 0264-RTRi-5584 |
| 3 | U-Bolt M12 x 105 Deep x 104 Wide | 2 | 0271-12105104 |
| 4 | Washer Flat M12 | 4 | 0231-F12 |
| 5 | Nyloc Nut M12 | 4 | 0221-NYL12 |



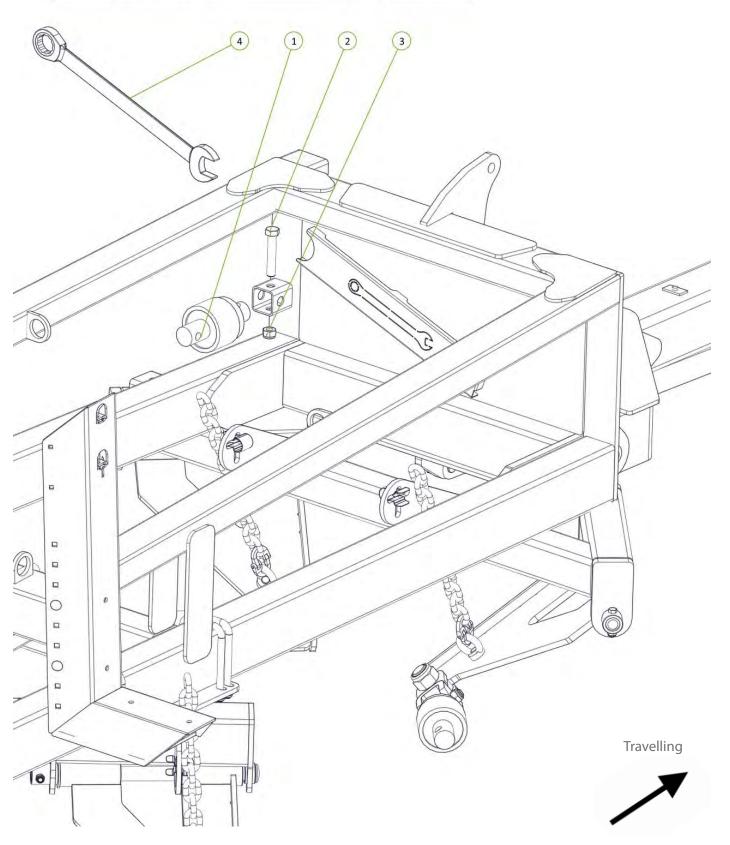
| Item No. | Description | Qty | Number |
|----------|----------------------------------|-----|---------------|
| 1 | 9m & 12m Chain Carrier | 1 | 1510-17-30 |
| 2 | Chain Carrier Mount Plate | 2 | 0800-139.1 |
| 3 | U-Bolt M16 x 112 Deep x 104 Wide | 4 | 0271-16112104 |
| 4 | U-Bolt M16 x 160 Deep x 127 Wide | 4 | 0271-16160127 |
| 5 | Nyloc Nut M16 | 16 | 0221-NYL16 |
| 6 | Washer Flat M16 | 16 | 0231-F16 |



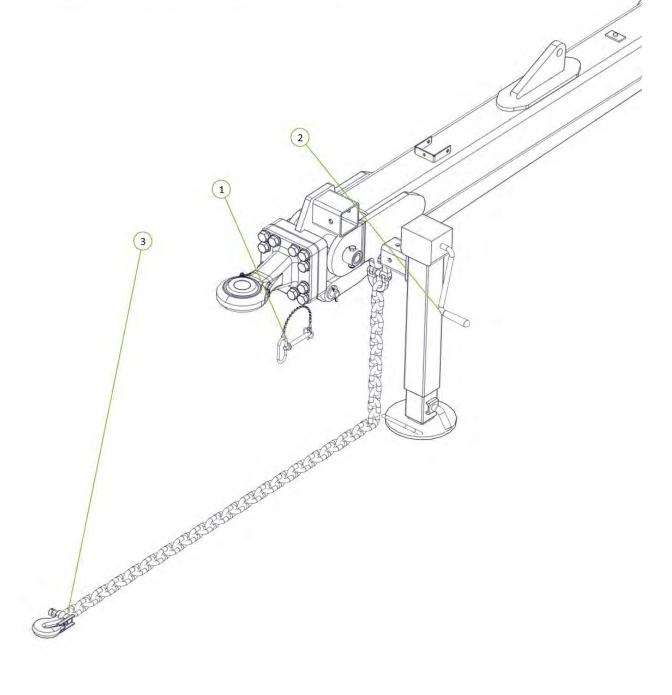
| Item No. | Description | Qty | Number |
|----------|-----------------------------|-----|-------------|
| 1 | Chain Carrier Bolt On End | 2 | 0810-17L |
| 2 | M12 x 40 Zp Coach Head Bolt | 8 | 0215-CH1240 |
| 3 | Washer Flat M12 | 8 | 0231-F12 |
| 4 | Nyloc Nut M12 | 8 | 0221-NYL12 |



| Item No. | Description | Qty | Number |
|----------|---|-----|--------------|
| 1 | 20mm Bolt Swivel Unit | 1 | 0802-PCHB55 |
| 2 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 1 | 0211-20110ST |
| 3 | Nyloc Nut M20 | 1 | 0221-NYL20 |
| 4 | Gear Wrench 1 3/4" | 1 | 0802-GW1 3-4 |



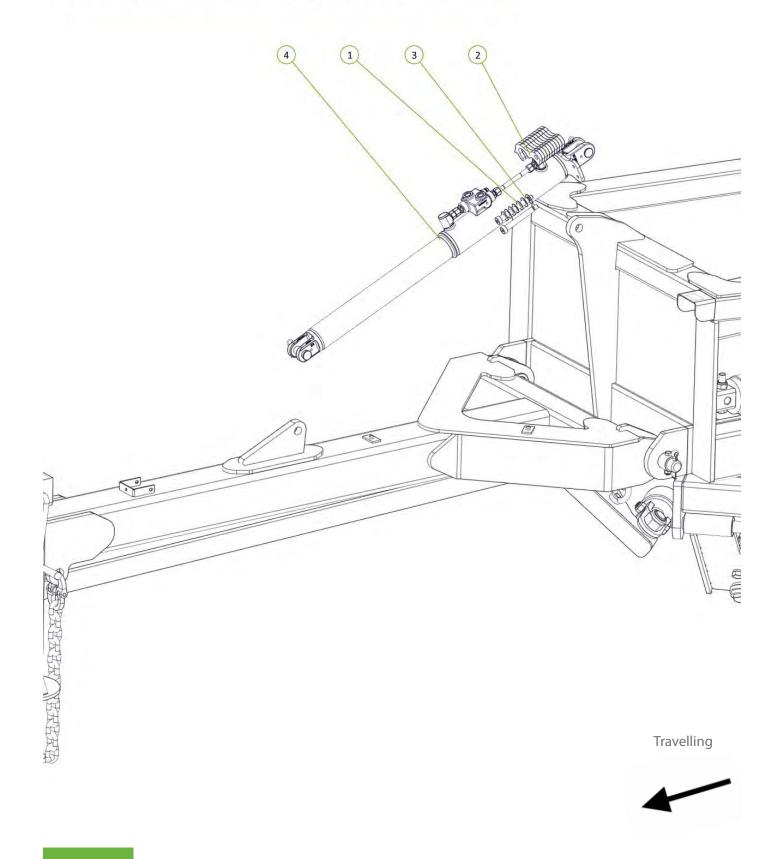
| Item No. | Description | Qty | Number |
|----------|------------------------|-----|------------|
| 1 | Jack Pin | 1 | 0801-B3077 |
| 2 | Jack Assembly | 1 | 0810-31 |
| 3 | Safety Chain Assemblly | 1 | 0810-16 |

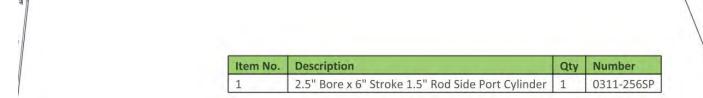


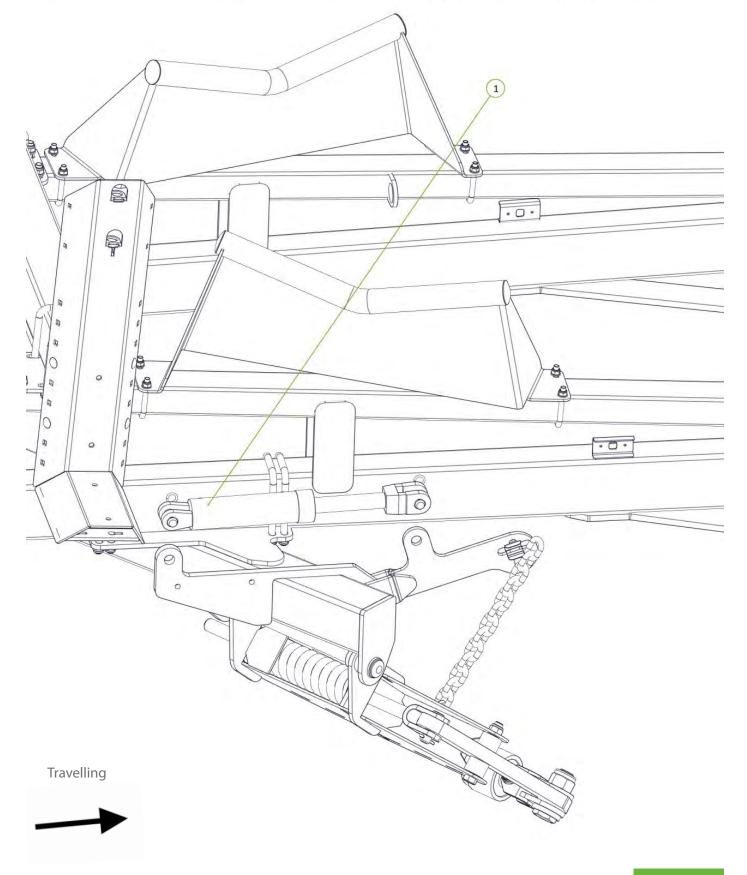
Travelling

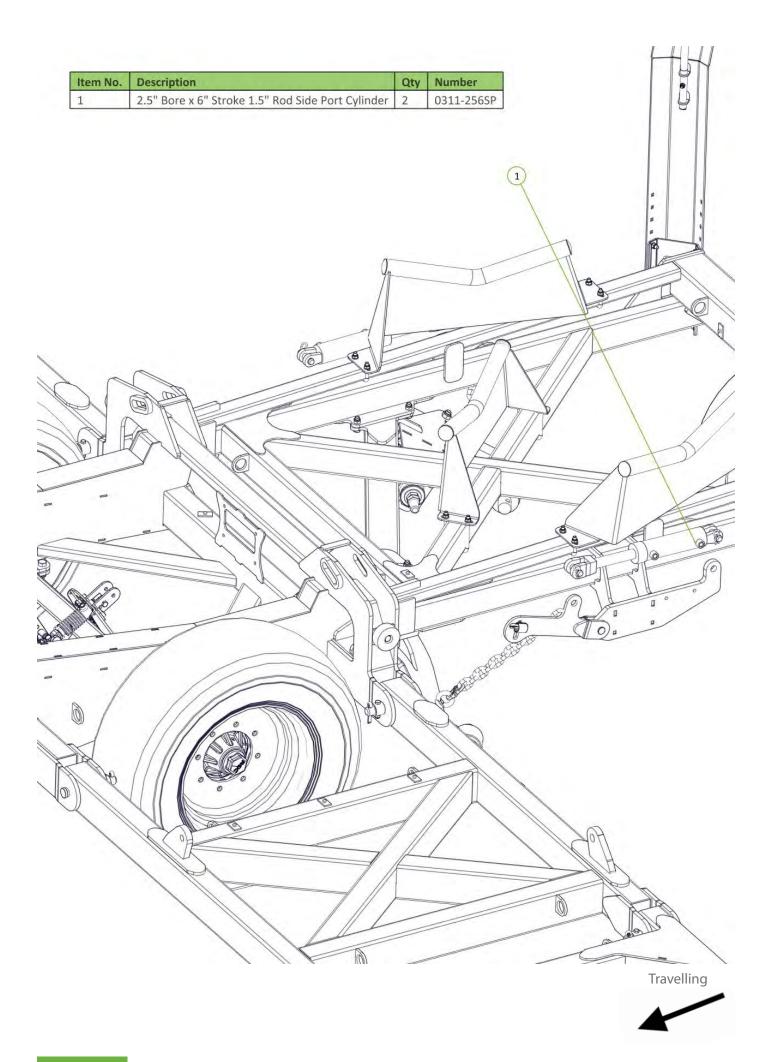


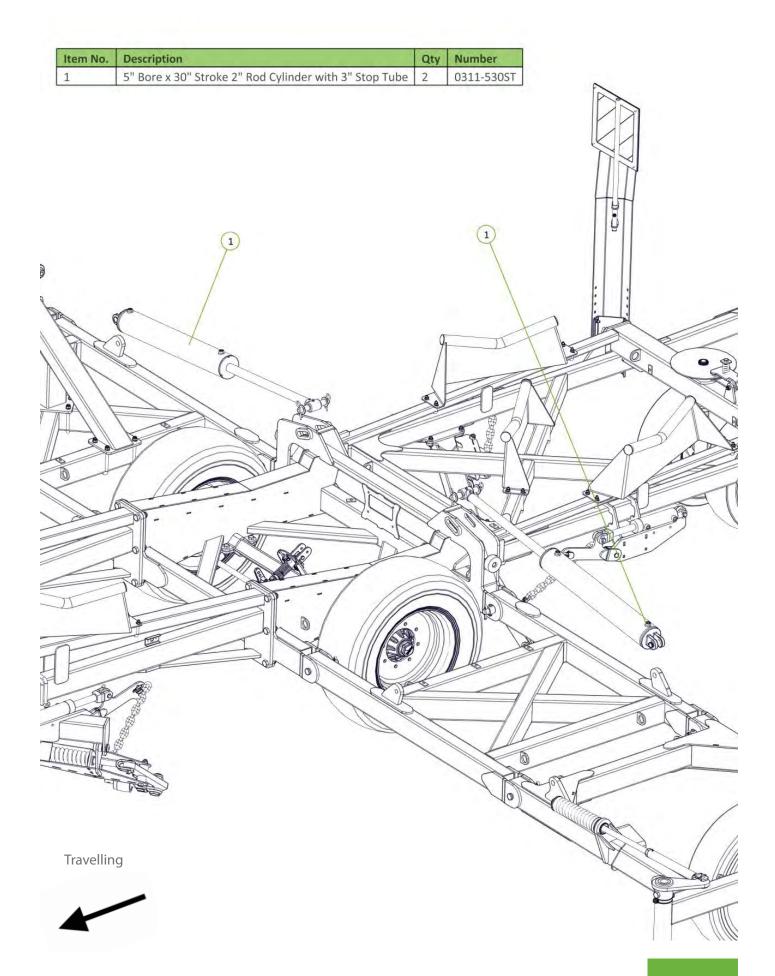
| Item No. | Description | Qty | Number |
|----------|--|-----|-------------------|
| 1 | Compression Cup Washer | 7 | 0231-SPRINGCUP |
| 2 | Cylinder Depth Stop Plate | 10 | 0800-278 |
| 3 | Shoulder Screw M12 x 16 x 110 | 2 | 0211-12110SHSCREW |
| 4 | 3" Bore x 12" Stroke Extended Cylinder | 1 | 0313-312EXT |



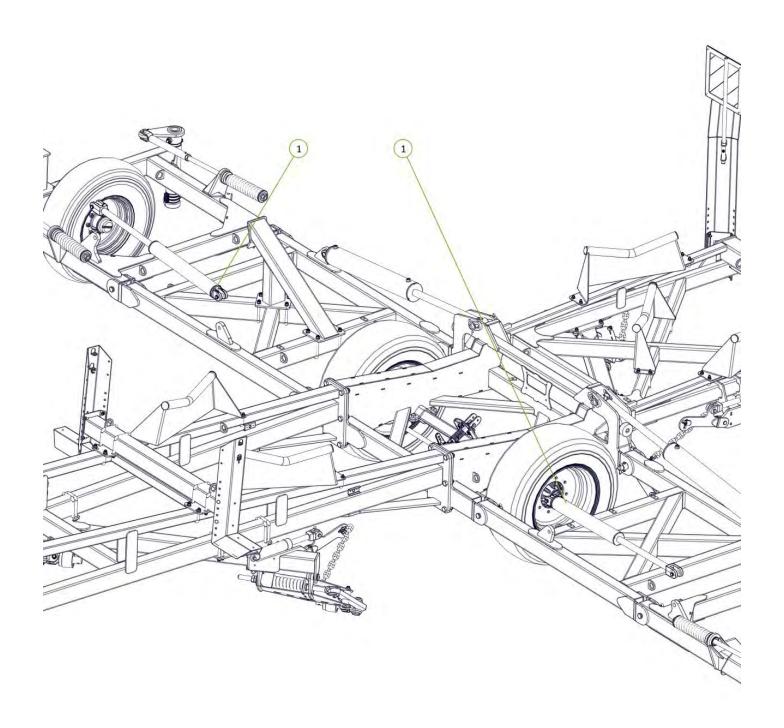








| Item No. | Description | Qty | Number |
|----------|--|-----|-------------|
| 1 | 3.5" x 24" Side Port Hydraulic Cylinder Barrel | 2 | 0311-3524SP |

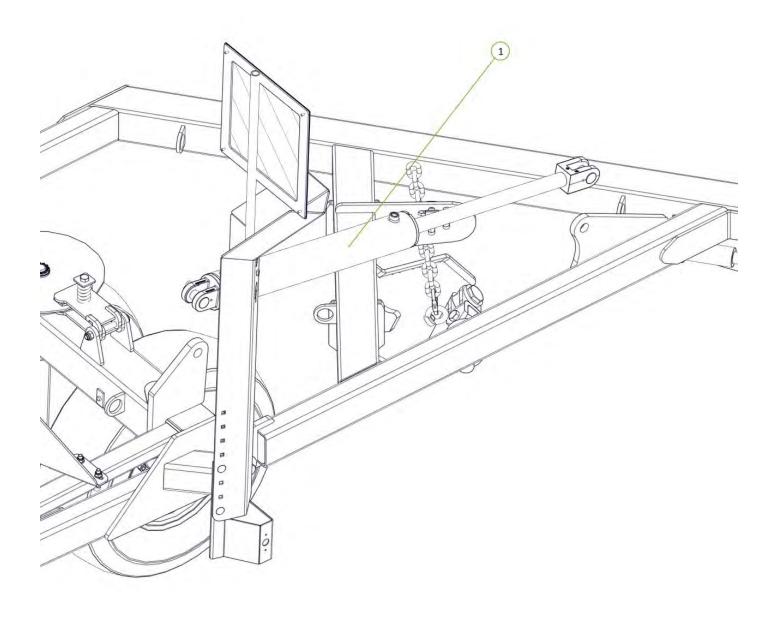




Travelling



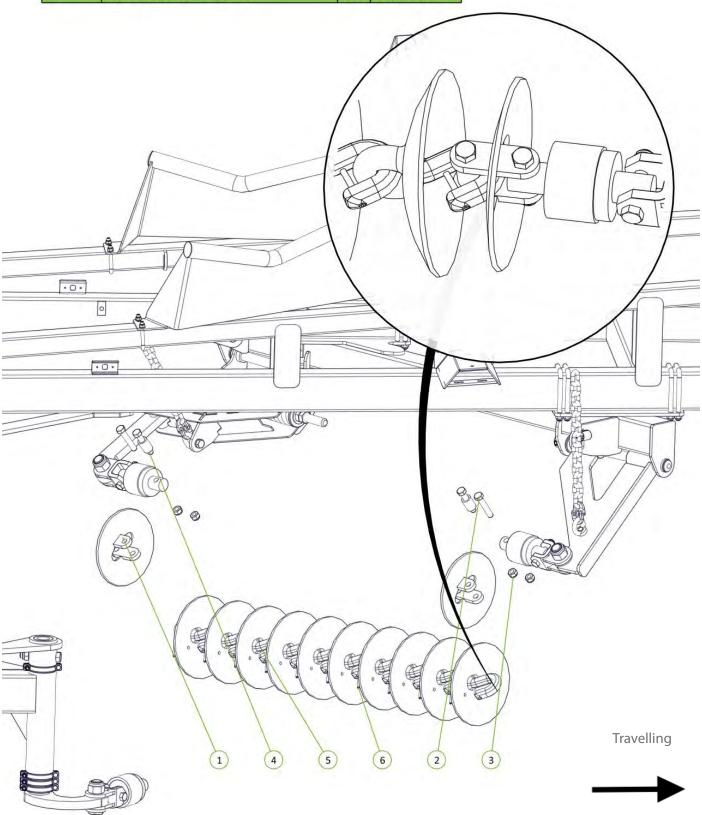
| Item No. | Description | Qty | Number |
|----------|---|-----|----------|
| 1 | 4" Bore x 24" Stroke 1.75" Rod Cylinder | 1 | 0311-424 |



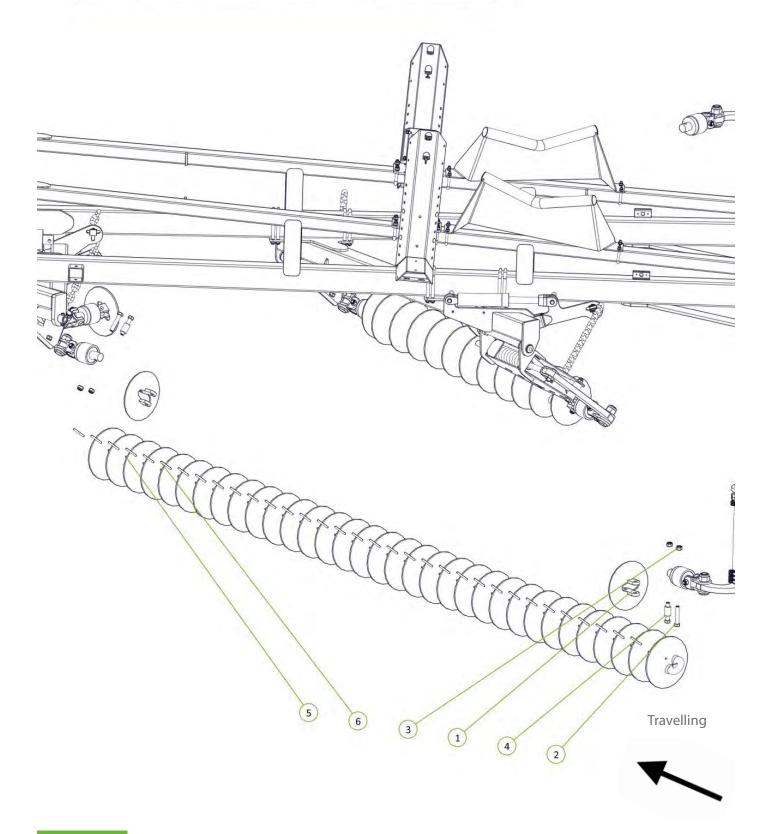
Travelling



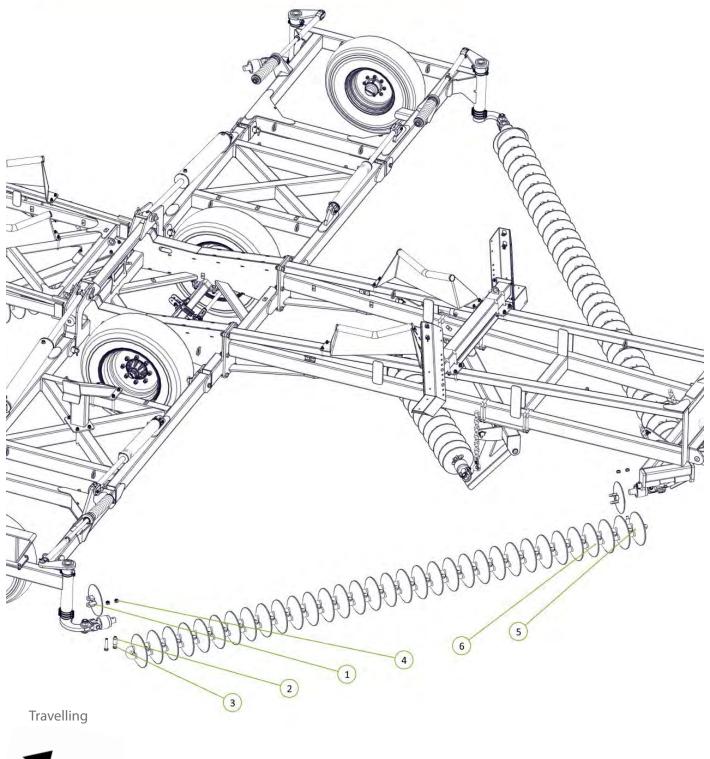
| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Tie Plate Disc 20mm | 2 | 0802-DCTP-20 |
| 2 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 4 | 0211-20110 ST |
| 3 | Nyloc Nut M20 | 4 | 0221-NYL20 |
| 4 | Disc Chain Spacer | 2 | 0801-PCDCS55 |
| 5 | CL1-B Chain Disc Link | 10 | 0803-CL1 |
| 6 | Roll Pin Zinc Plated 3/8" x 3" | 10 | 0262-3-8X3 |



| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Tie Plate Disc 20mm | 2 | 0802-DCTP-20 |
| 2 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 4 | 0211-20110 ST |
| 3 | Nyloc Nut M20 | 4 | 0221-NYL20 |
| 4 | Disc Chain Spacer | 2 | 0801-PCDCS55 |
| 5 | CL1-B Chain Disc Link | 33 | 0803-CL1 |
| 6 | Roll Pin Zinc Plated 3/8" x 3" | 33 | 0262-3-8X3 |

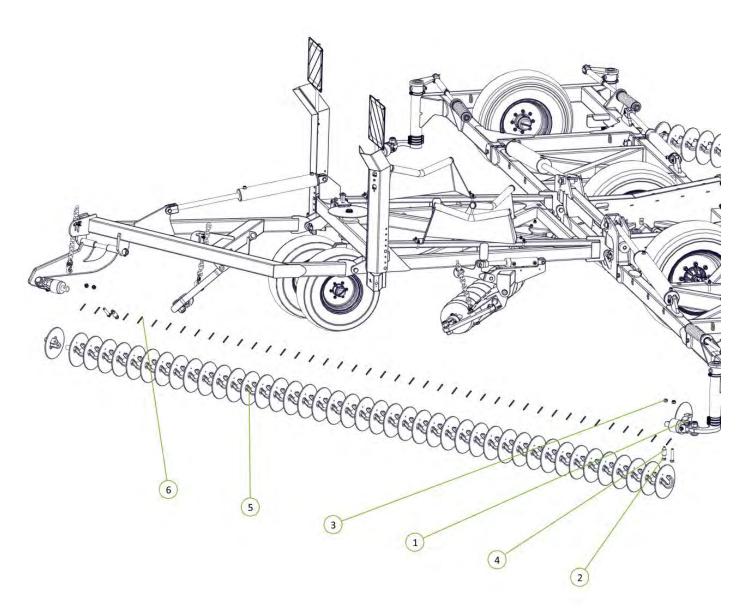


| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Tie Plate Disc 20mm | 2 | 0802-DCTP-20 |
| 2 | Disc Chain Spacer | 2 | 0801-PCDCS55 |
| 3 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 4 | 0211-20110 ST |
| 4 | Nyloc Nut M20 | 4 | 0221-NYL20 |
| 5 | CL1-B Chain Disc Link | 33 | 0803-CL1 |
| 6 | Roll Pin Zinc Plated 3/8" x 3" | 33 | 0262-3-8X3 |





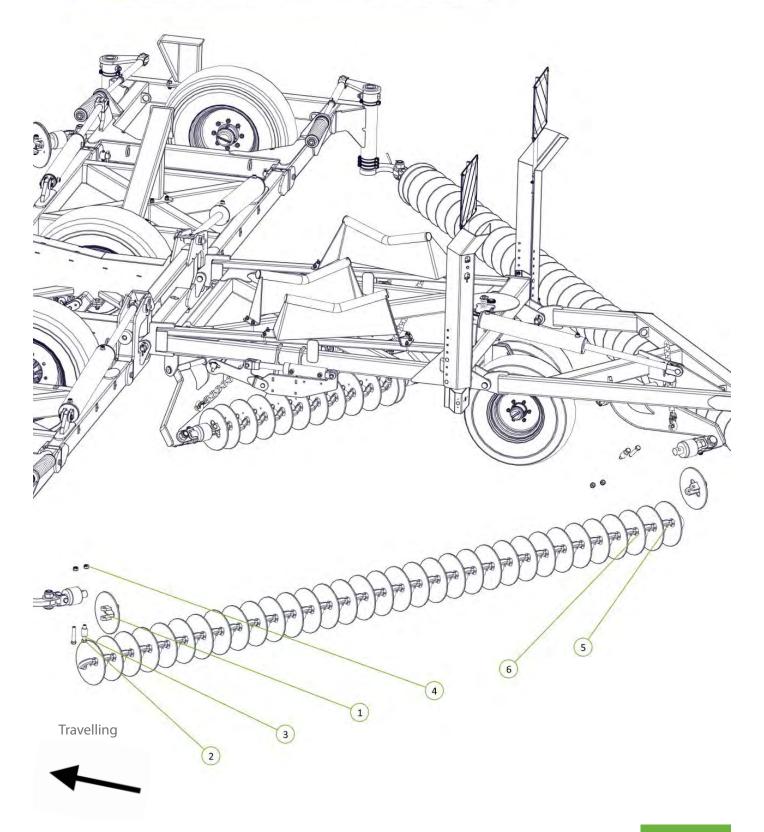
| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Tie Plate Disc 20mm | 2 | 0802-DCTP-20 |
| 2. | M20 x 110 grade 10.9 ZP Short Thread Bolt | 4 | 0211-20110 ST |
| 3 | Nyloc Nut M20 | 4 | 0221-NYL20 |
| 4 | Disc Chain Spacer | 2 | 0801-PCDCS55 |
| 5 | CL1-B Chain Disc Link | 42 | 0803-CL1 |
| 6 | Roll Pin Zinc Plated 3/8" x 3" | 42 | 0262-3-8X3 |



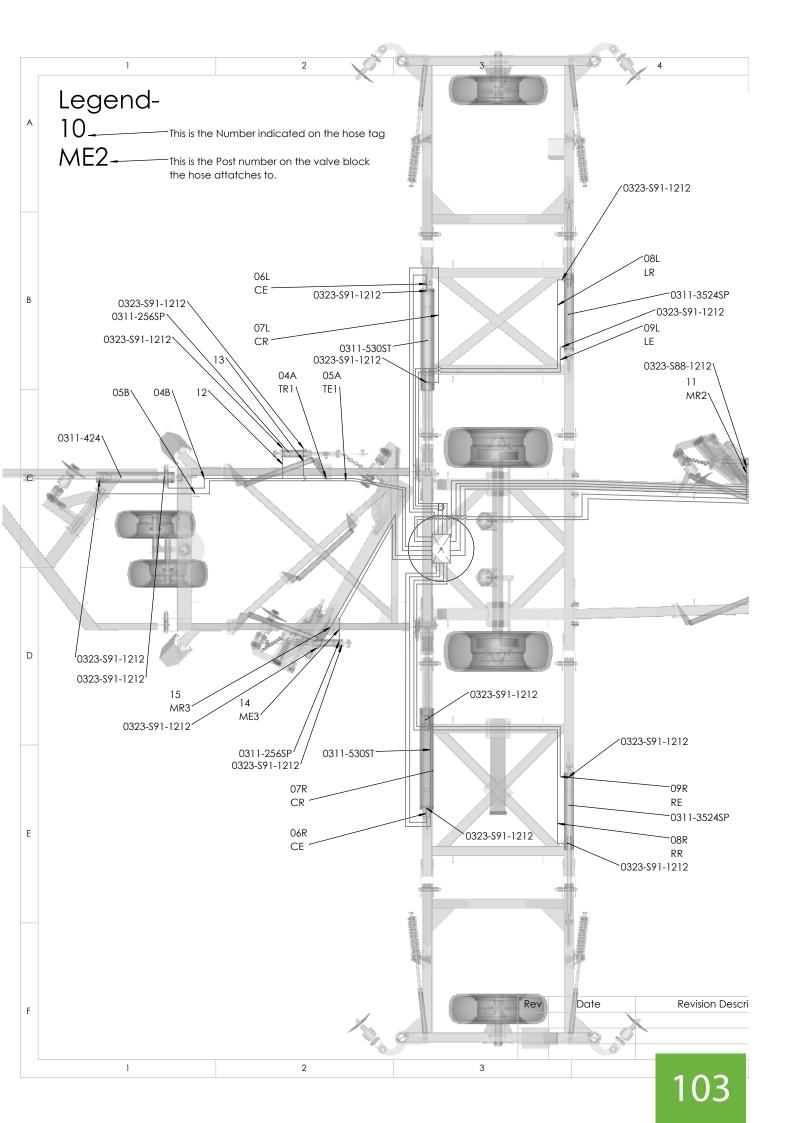
Travelling

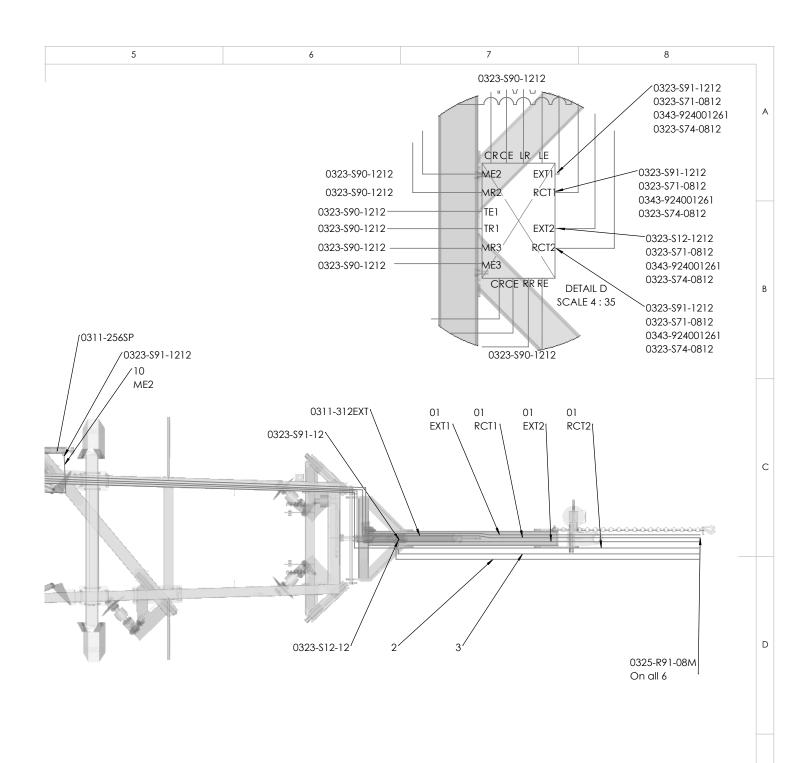


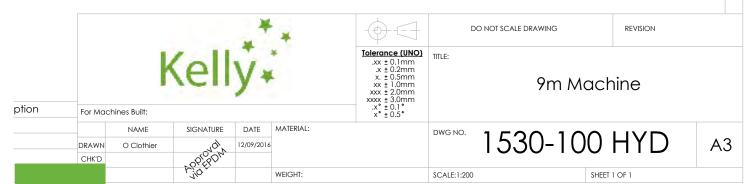
| Item No. | Description | Qty | Number |
|----------|---|-----|---------------|
| 1 | Tie Plate Disc 20mm | 2 | 0802-DCTP-20 |
| 2 | M20 x 110 grade 10.9 ZP Short Thread Bolt | 4 | 0211-20110 ST |
| 3 | Disc Chain Spacer | 2 | 0801-PCDCS55 |
| 4 | Nyloc Nut M20 | 4 | 0221-NYL20 |
| 5 | CL1-B Chain Disc Link | 33 | 0803-CL1 |
| 6 | Roll Pin Zinc Plated 3/8" x 3" | 33 | 0262-3-8X3 |

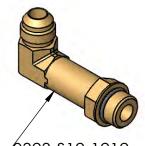


Section 3Hydraulic Setup









Ó323-S12-1212 3/4"JIC Male - 3/4"UNO Male Extended 90° Elbow



3/4"JIC Male - 3/4"UNO Male 90° Elbow



3/4"JIC Male - 3/4"JIC Female 90° Elbow



1/2"BSPP O Ring Male - 3/4"JIC Female Adaptor



1/2"BSPP O Ring Male - 3/4"JIC Male Adaptor



0323-S90-1212





Ó324-S19-121212 3/4"JIC Male



3/4"JIC Male - 3/4"JIC Female - 3/4"JIC Male



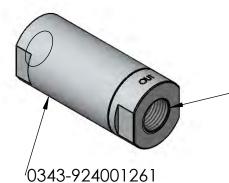
3/4"JIC Male - 3/4"JIC Female - 3/4"UNO Male



3/4"JIC Male - 3/4"JIC Female - 3/4"JIC Female Tee



1/2" BSPP Quick Release Ball Coupling



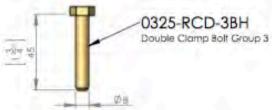
1/2" BSPP 60 micron inline filter max flow 60L/M & 5000psi max pressure

Note: Fit this end to valve block

New Style Hose Clamp Components Fits Hose T5006A

Old Style Hose Clamp Components Fits Hose T26A



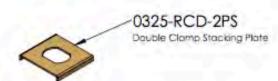




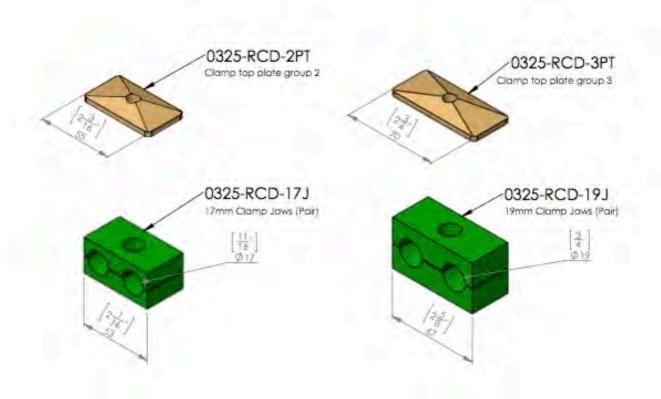




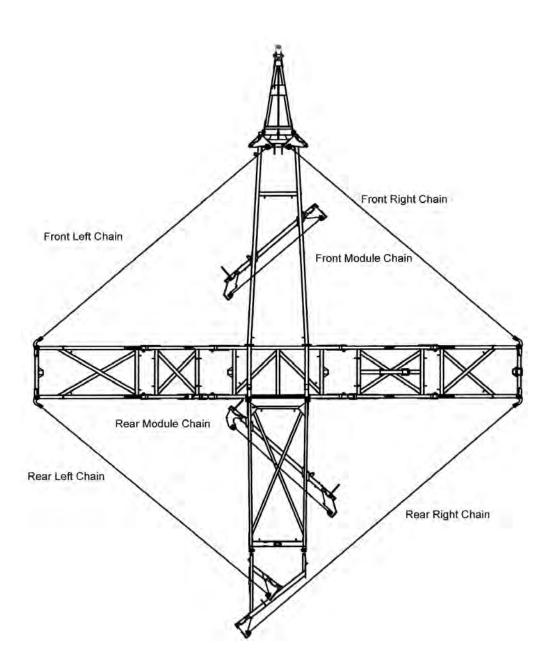








Section 4 Diagrams & Charts

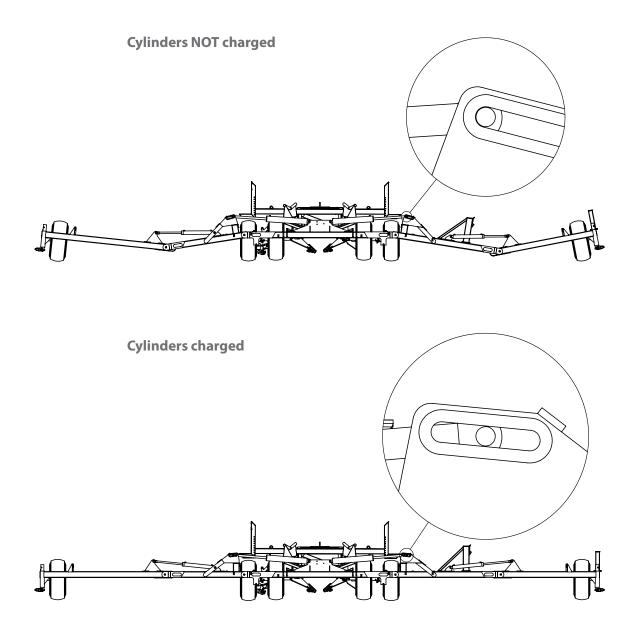




Before folding the machine for the first time, ensure all hydraulic cylinders are charged with oil.

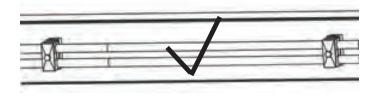
To do this, run the hydraulics through the unfold sequence until the outer wings are straight and the centre cylinders are centred in the slots. (It may take a few minutes for the cylinders to charge completely).

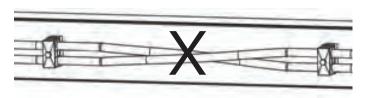
Failure to do this could result in severe personal injury and/or damage to the machine.



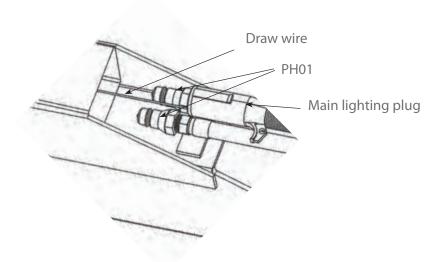


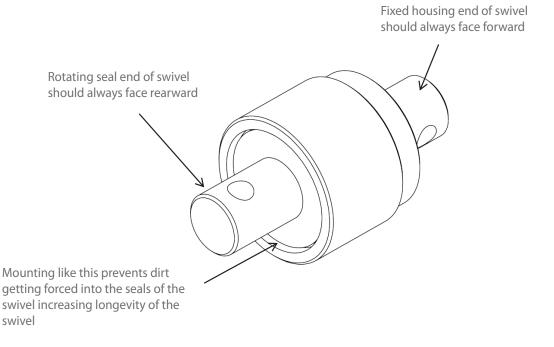
Correct layout of hoses

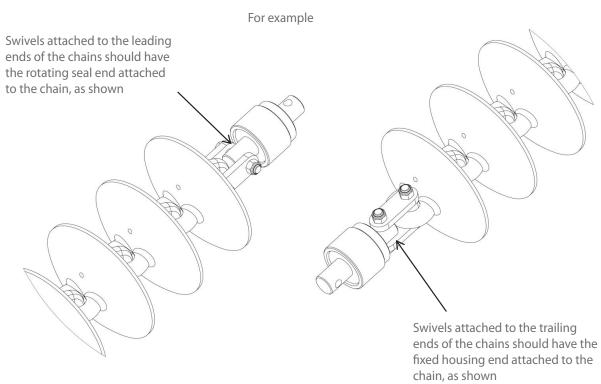




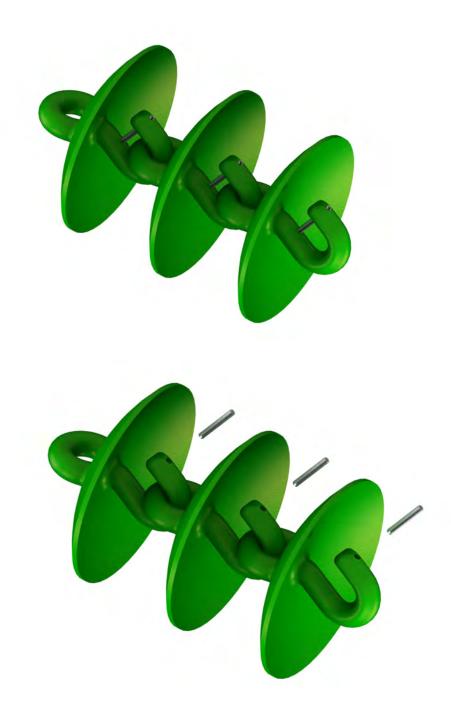
Avoid crossovers







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 | 9m | | | |
|------------------|-------------|--|--|--|
| Working width | 30′/9.1m | | | |
| Transport width | 7.9′/2.4m | | | |
| Transport height | 11.2′/3.4m | | | |
| Transport length | 39.4′/12.0m | | | |

Bolt Torque Settings

| Bolt 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.

Disc Chain lengths

| Mode | el | Length | CL2 (CL2 disc chain also requires CL1 disc chain) | CL1 | W36 | SD49 | R300 | PICKLE CHAIN |
|------|---------------|--------------|---|-----|-----|------|------|-----------------|
| 9m | Front right | 17.4′/ 5.31m | CL2 23 / CL1 2 | 33 | 32 | 42 | 42 | 59 |
| | Front left | 17.3′/ 5.28m | CL2 23 / CL1 2 | 33 | 32 | 42 | 42 | 59 |
| | Rear right | 22'/ 6.73m | CL2 23 / CL1 11 | 44 | 41 | 54 | 54 | 75 |
| | Rear left | 17.2′/ 5.24m | CL2 23 / CL1 2 | 33 | 32 | 42 | 42 | 58 |
| | Modules front | 5.6′/ 1.71m | CL2 6 / CL1 2 | 10 | 10 | 14 | 14 | 19 |
| | Modules rear | 5.1′/ 1.58m | CL2 6 / CL1 2 | 10 | 10 | 13 | 13 | 18 |

Section 5 Operation

Basic Operation

Unfolding:

- 1. Walk around and inspect the machine.
 - a. Check that chains are not hooked on framework
 - b. Check swivel bolts are in place and not broken
 - c. Check 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 |
|-------|--------|-----|
| 40 | 12.4 | 315 |

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





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 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.



