

CUB TORNADO SPREADERS



OWNERS MANUAL

CUB SPREADERS. Models S4000TA and S6000TA

Manufacture 2013 onwards from S/N 1309282



CUB TORNADO SPREADERS



DEAR CUSTOMER

We take this opportunity of welcoming you as the owner of a Cub Tornado Spreader. We want your spreader to be the most efficient and productive piece of equipment you have. This small manual will help you to achieve this objective.

The safe operation and maintenance of your spreader is very important to prevent any personal injury and/or equipment damage. Read and fully understand the following instructions before operating or carrying out maintenance.

WARRANTY

Agriquip warrants new products sold by it to be free from defects in material and workmanship for a period of twelve months (12) for farmers or six months (6) for contractors, after delivery to the initial user. This warranty is for the replacement or repair of any part found to be defective during the warranty period. This warranty excludes any transport freight costs incurred by Agriquip in giving effect to the warranty and specifically excludes all normal maintenance costs. Replacement parts provided under the terms of this warranty are covered for the remainder of the warranty period applicable to the product in which they are installed as if such parts were original components of that product.

CONTACT DETAILS

Phone: 06 759 8402
Address: 30 Hurlstone Drive, New Plymouth, New Zealand
Postal Address: P O Box 578, New Plymouth, New Zealand
Spare parts Contact: parts@agriquip.co.nz
Web site: www.agriquip.co.nz

DELIVERY

The machine is delivered fully assembled, however, before use carefully check the entire machine for transit damage and report any problems immediately.

CUB TORNADO SPREADERS



SPECIFICATIONS

| | Model | |
|--|-------------------------|-------------------------|
| | \$4000TA | \$6000TA |
| Belt Width (mm) | 300 | 650 |
| Capacity (Cubic Metres) | 3.2 m3 | 4.6 m3 |
| Greedy Board (Option) , Increased Volume | 1.15 m3 | N/A |
| Tonnes Urea | 2.6 | 3.7 |
| Tonnes Super | 4 | 6 |
| Tonnes Lime | 4.5 | 6.4 |
| Axles (Max Load) x 6 Stud | 8,640 Kg | 11,700 Kg |
| Tyres (Standard 9" Wide Rims) | 11.5/80 - 15.3 x 14 Ply | 11.5/80 - 15.3 x 14 Ply |
| Tyres (Option) AW or Traction, 13" Wide Rims | 400/60-15.5 | 400/60-15.5 |
| Tare Weight | | |
| Overall Length (mm) | 4370 | 4370 |
| Overall Width (mm) (Standard Tyres) | 2360 | 2360 |
| Overall Height (Without Cover Bar) (mm) | 2070 | 2300 |
| Overall Height (With Cover Bar) (mm) | 2240 | 2550 |
| Spinner Bumper Ground Clearance (mm) | 440 | 440 |
| Ground to Spinner Height (mm) | 550 | 550 |
| Ground to Swivel Eye Height (Drawbar Level) | 600 | 600 |
| Swivel Eye Coupling | Standard | Standard |
| Screw Jack (Swivel) | Standard | Standard |
| Forward Skid Plate (Alternative to Jack) | Optional | Optional |
| Independent Engage Hose | Optional | Optional |
| Chain Guards | Optional | Optional |
| Cover (Standard Fixed) | Optional | Optional |
| Cover (Rollup) | Optional | Optional |
| High capacity Diverter | N/A | Optional |
| Brakes | Optional | Optional |
| Mud Guards | Optional | Optional |
| Lights | Optional | Optional |

CUB TORNADO SPREADERS



MACHINE MODELS

1. This manual details the operating instructions for two: Cub S4000TA and S6000TA (Tandem Axle). Most parts are inter-changeable between the models, however, where parts are different; the model version will be clearly stated.

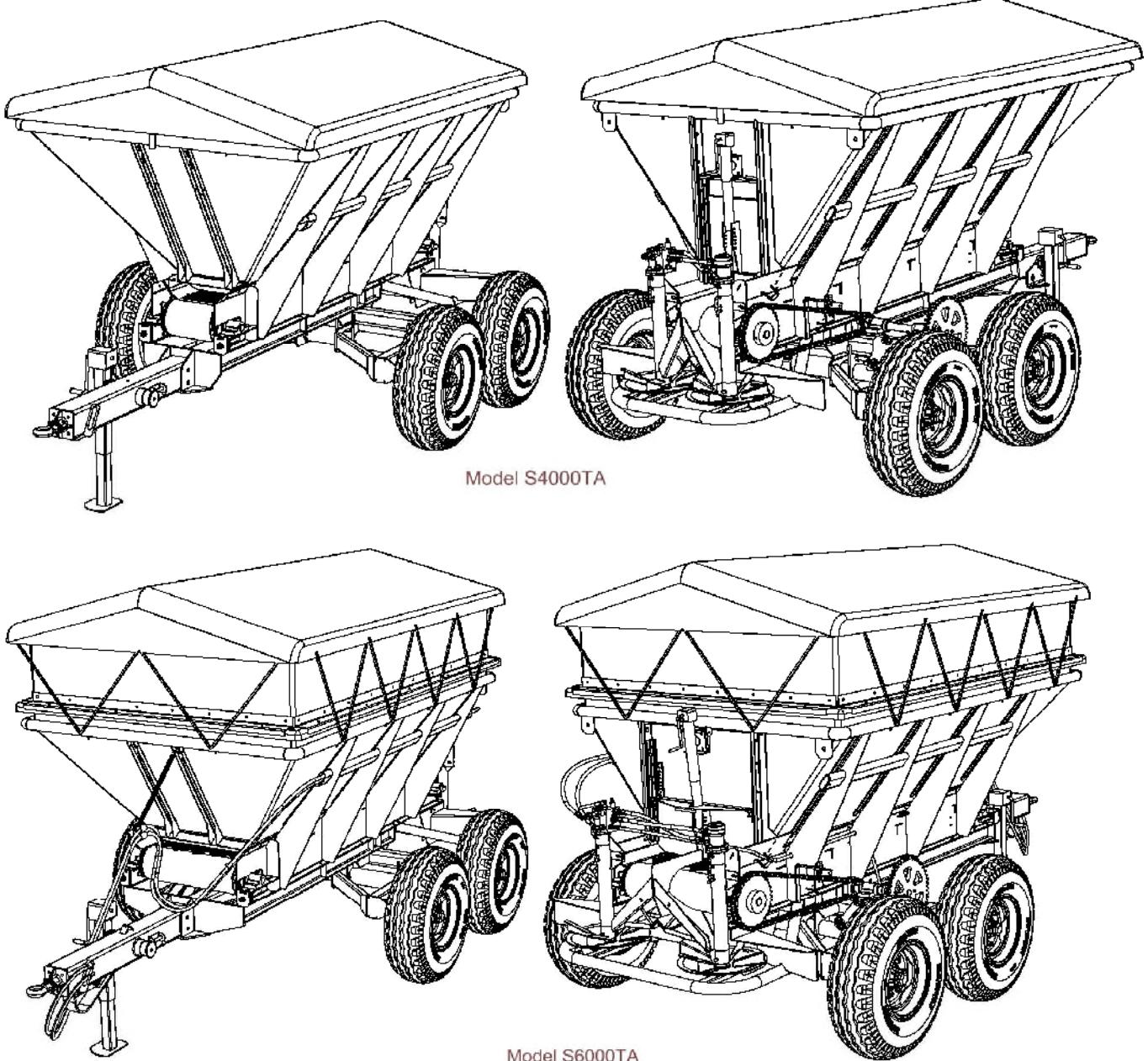


Figure 1 - Models

CUB TORNADO SPREADERS



RULES FOR SAFE OPERATION



SAFETY REGULATION - take notice of this sign

Warning and Cautions

2. Throughout this manual, the word **WARNING** is used to alert the operator and others to the risk of personal injury during operation of the equipment. **CAUTION** indicates the possibility of damage to the machine.
3. Carefully read and take note for the following warnings before attempting to use the spreader.
 - WARNING.** Ensure the tow hitch is in good repair and fit for towing.
 - WARNING.** Ensure the tyres are correctly inflated for the load.
 - WARNING.** Never allow any person to ride on or in the spreader.

Pre Start Checks

4. Check the tyres for signs of wear, cuts and impact damage (1). Check the tyre pressure (Fig 2).
5. Check the torque on all wheel nuts (2) (Fig 2).
6. Check the machine has been greased. Refer to Fig 10 and 11 for the position of the grease points.
7. Check the condition of the towing eye (3), tow-bar frame (4), machine chassis (5), axle (6), bin (7) and cover (8) for damage and wear (Fig 2).
8. Check the jack (9) is fully raised when the spreader is connected to the tractor (Fig 2).
9. Do not exceed the payload of 4.5 tonne (4000 Model) or 6.4 tonne (6000 Model) regardless of the operating conditions e.g. normal working surfaces or rough terrain.

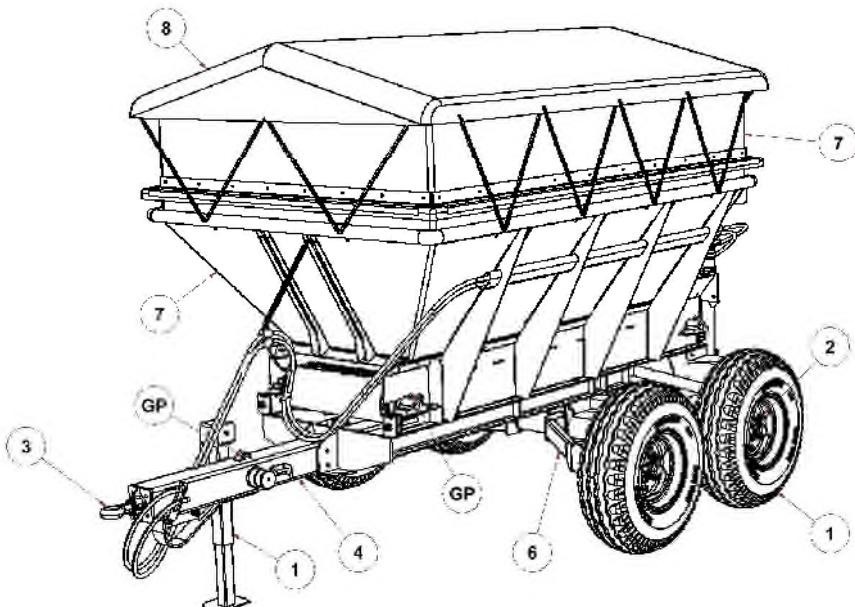


Figure 2 - Pre Start

CUB TORNADO SPREADERS



RULES FOR SAFE OPERATION (*continued*)

Pre Start Checks (*continued*)

10. Check the condition and operation of the drive gears (Large and Small) (1) the chain (2) Belt tensioner (3) and feed belt (4) (Fig 3).
11. Check hydraulic hoses (5) and hydraulic motors (6) for damage and hydraulic fluid leaks (Fig 3).
12. Check the operation of the fertiliser shutter (7) and handle mechanism (8) (Fig 3).
13. Check the operation of the hydraulic system control block (9) and check for leaks (Fig 3).
14. Check the condition and operation of the spinners (10) (Fig 3).
15. Check the conditions of the bearing blocks (11) (Fig 3).
16. Check main chain/belt tension by holding a straight-edge underneath spreader between front and rear sprockets. Chain should sag on slack side of chain no less than 20mm and no greater than 60mm. Insure chain tensioner (3) is applying some pressure to the chain. (Fig 3)

CAUTION: Do not over-tighten chain!

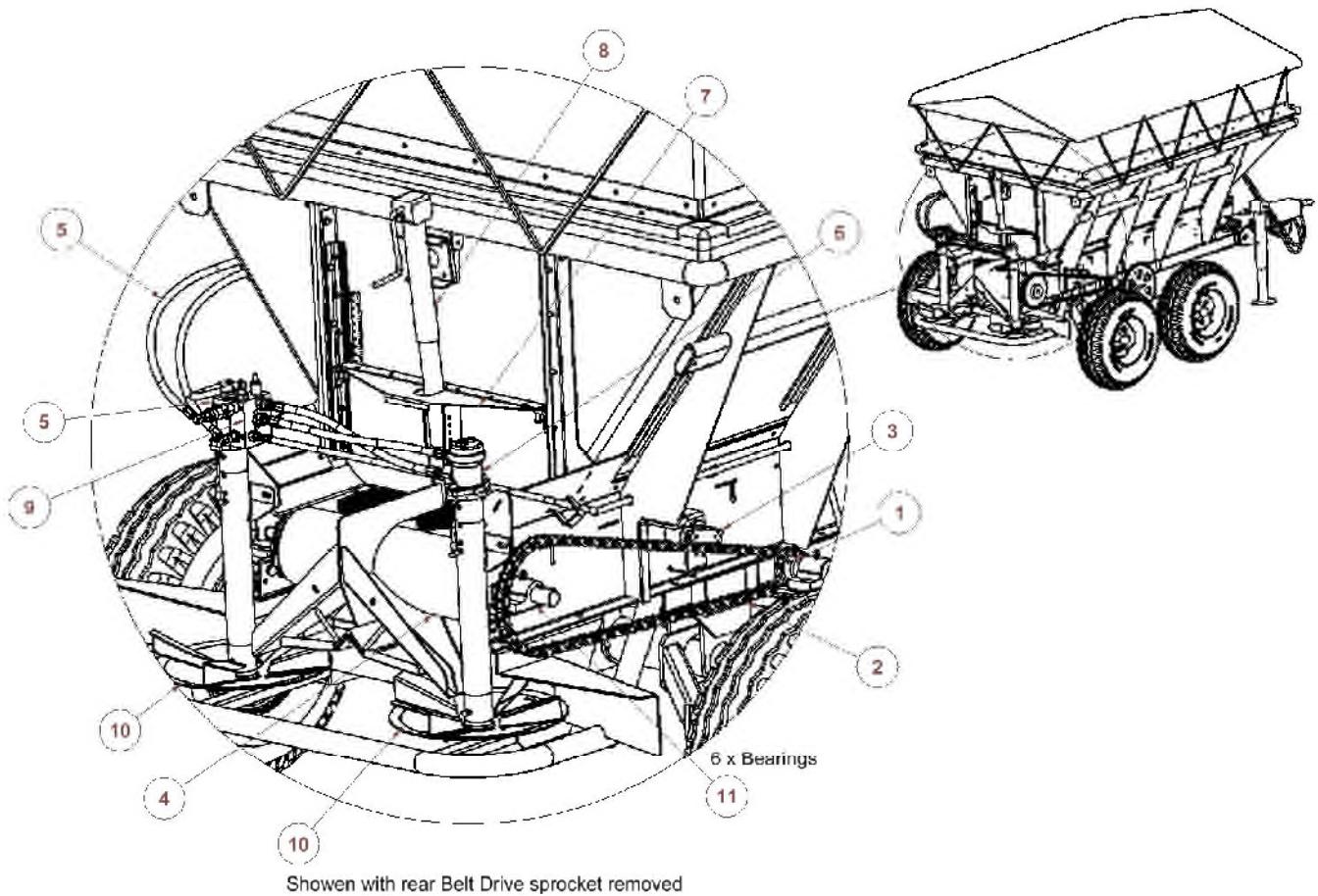


Figure 3 – Safe Operation

CUB TORNADO SPREADERS



OPERATING

17. The spreader hydraulic system is powered from the tractor hydraulic system via two hydraulic hoses (1) (Fig 4). The functions and operation of the spreader are controlled from the tractor.
 - The hoses are connected directly to the tractor hydraulic system (it is recommended to consult the tractor operator manual) which powers the two hydraulic spinner motors and the drive actuating cylinder.
 - a) As it was originally designed, the spreader must operate on a single-acting circuit with an open return to the tractor transmission. This allows the drive actuating cylinder to 'vent to tank' when single-acting control valve goes to neutral thus allowing the cylinder to collapse and disengage ground drive. This is a similar plumbing arrangement to a hydraulic post driver. The Cub Tornado Spreaders are designed to handle up to 50 litres/minute maximum flow from tractor, for tractors having higher flow rates than this (at expected spreader use engine rpm) there are two options:
 - i. Adjust flow controls on tractor auxiliary valve controls to regulate down to the above acceptable level.
 - ii. We can offer as an option a high flow control cartridge valve to replace the standard at an additional charge.
 - b) A double-acting circuit can be used only if there is a fourth position float, assuming back pressure caused by pump flow, etc. is low enough so spring can collapse ground drive engagement cylinder to release drive. In operation the only two lever positions used are the third for drive and fourth for disengage. In no case can a double-acting service without float be used as this will lock the fluid when valve is returned to neutral, which does not allow disengagement of the ground drive.
 - c) As an alternative to b), a double-acting circuit can be used, but with a separate single-acting circuit for the ground drive actuating cylinder. This arrangement allows continuous spinner operation and independent stop/start of feed belt. This requires a separate hydraulic hose direct from single-acting auxiliary valve on tractor to the cylinder on the spreader. This is an optional extra, and there will be a small charge for this.
 - d) If a spare single-acting circuit is not available on tractor to enable c) to be done, a double-acting cylinder can be offered as an optional extra. This is an optional double-acting cylinder and requires two hoses from the tractor auxiliary valve to this cylinder. At all times it should be pointed out that soft engagement/disengagement is desirable for best life.

IMPORTANT.

- The pressure hose (2) (or Main Delivery) is identified by label attached to the quick-release coupling end.
- That the return hose (3) (or Main Return) has no restriction.
- The hydraulic control valve at rear of spreader (4) is marked 'P' for pressure (ie. Main Delivery) and 'T' for tank (ie. Main Return).
- A Non Return Valve (NRV) is positioned on the control block to protect the system. The spinners and engagement ram will not function, if hose have been inadvertently connected to the tractor incorrectly.

CUB TORNADO SPREADERS

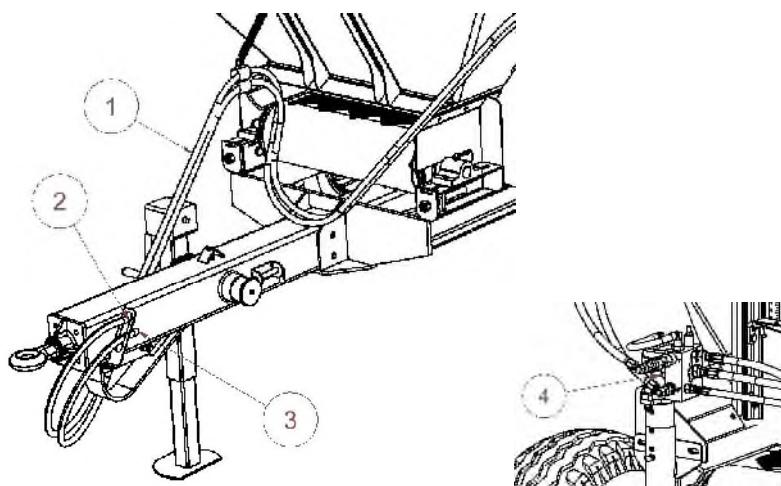


Figure 4 - Hoses

- Figure 5 details the drive assembly (8) in the disengaged position. The drive is held in the engage position by a hydraulic cylinder (1) (Fig 5).
- The right rear spreader wheel powers the feed belt via drive chain (10) driven from the wheel sprocket (2) to the idler sprocket (3) (Fig 5).
- When the spinners are engaged, the drive assembly (8) is lowered and meshes the large gear (4) with the small gear (3) that rotates on the idler shaft. When the spinners are disengaged, 2 x springs under the saddle lift the gear assembly to the position shown in Fig 5 allowing engagement cylinder (1) to vent oil back thru the main return line (3) (Fig 4).

IMPORTANT

The belt drive system is protected via 2 x special M8 shear bolt (7)

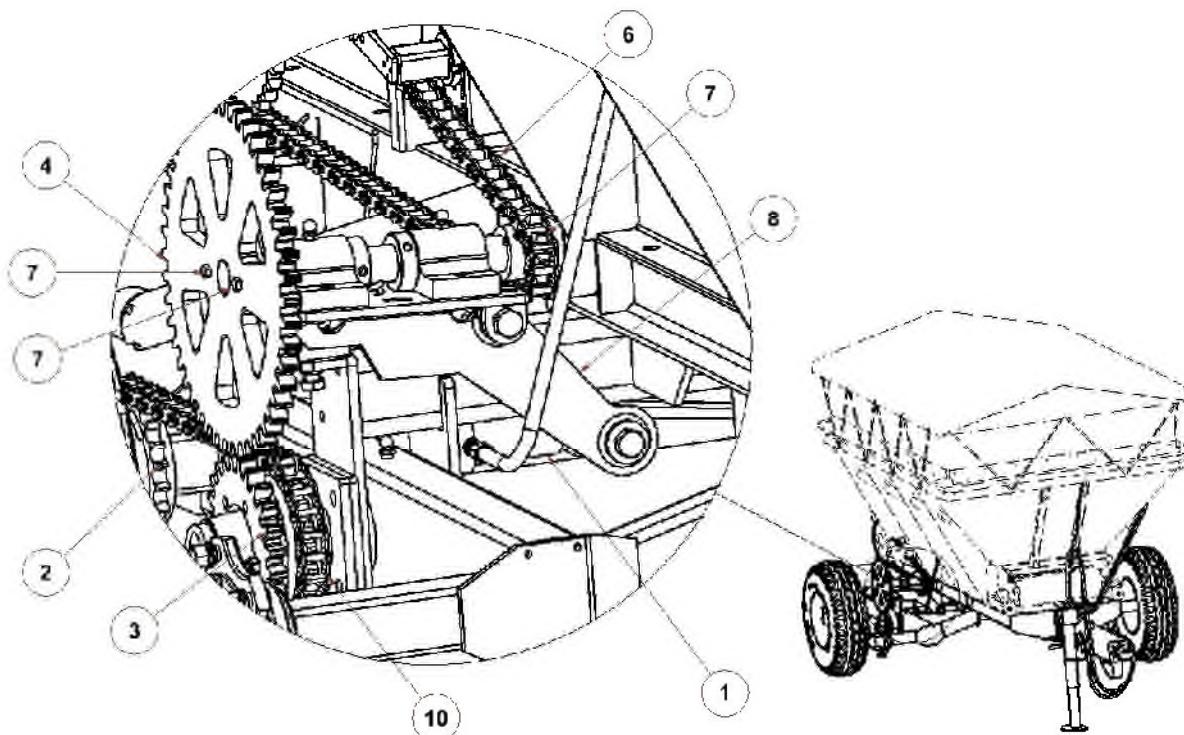


Figure 5 – Drive Assembly

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- If surging of the motors and spinners is experienced, the cause is an over supply of oil from the tractor hydraulic system.

IMPORTANT

To stop the surging, reduce the oil flow from the tractor. The spreader requires only 35 - 40 litres per minute (LPM).

- If the return line from the spreader is dumping back through the remote it must be connected to a bank with a dump or float facility.
- Chain tension (1) is maintained by a tension roller (2) (Fig 6).
- The ends of the chain are connected using a chain joining link (3) (Fig 6). Remove for chain service.

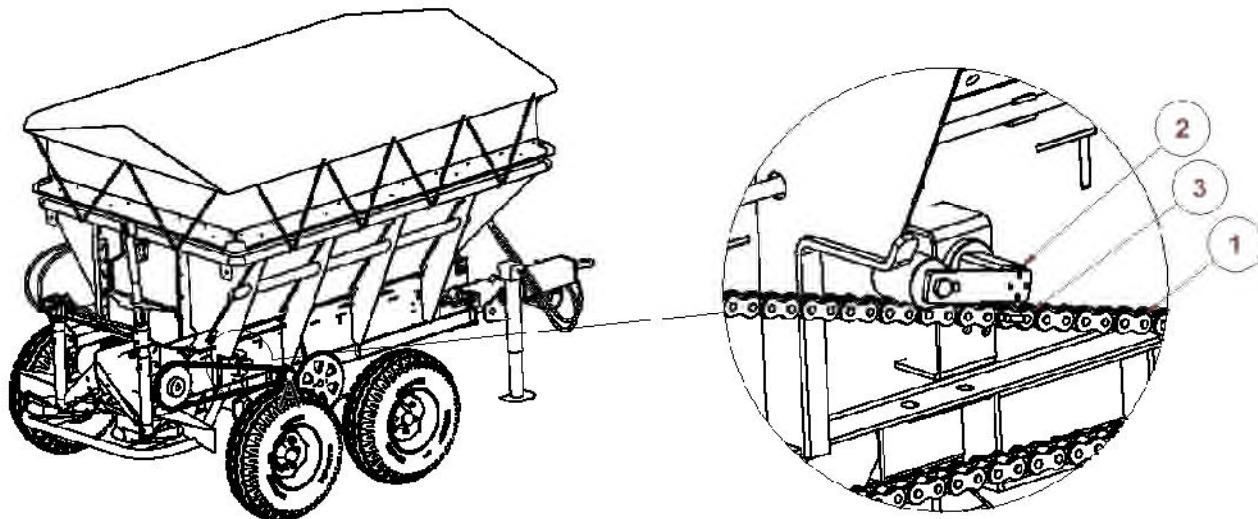


Figure 6 – Chain Tensioner

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- When the spinners (1) are engaged, hydraulic oil flows to the motors (2) via a control valve (2). Power from motors is transferred to the spinners via internal drive couplers within the spinner housings (Fig 7).

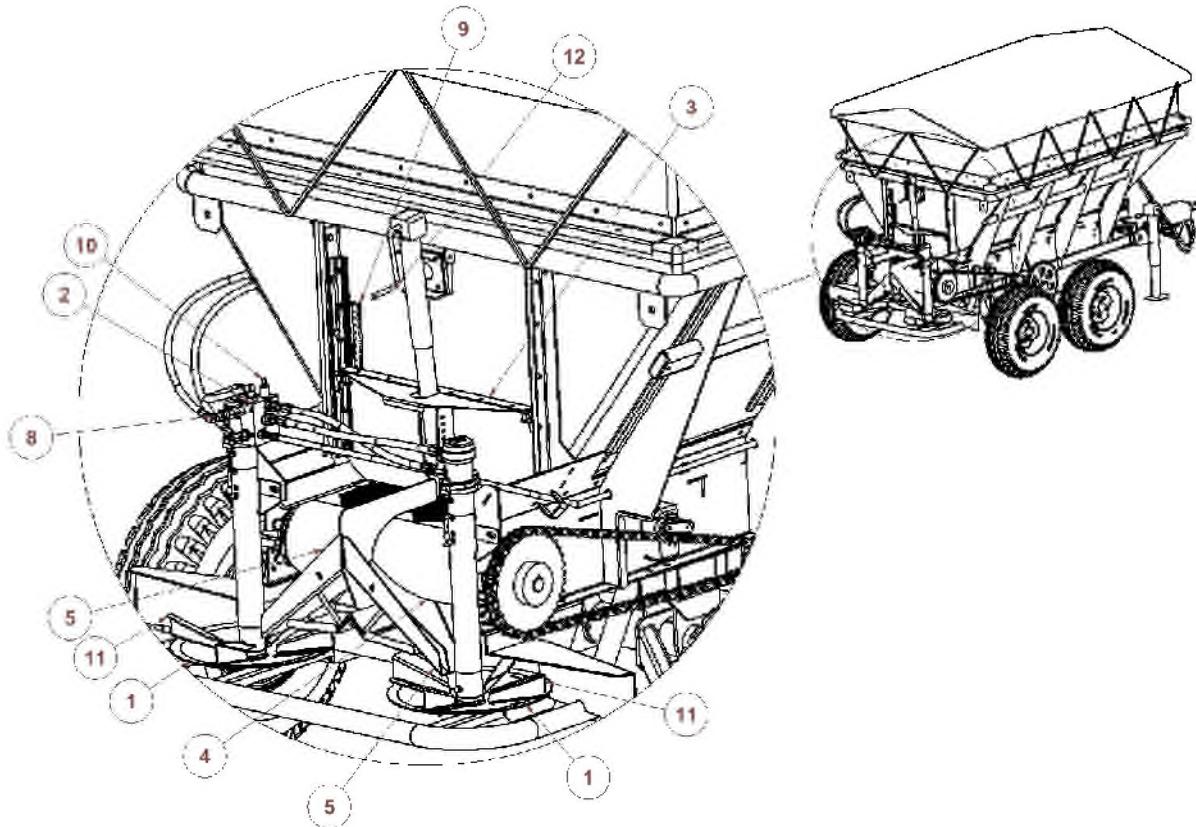


Figure 7 – Spreader Control

- The release of the fertiliser is controlled by vertical movement of the flow control shutter (3) (Fig 7). When engaged, fertiliser then falls from the belt (4) (fig 8) onto the two diverters (5) (Fig 7) directing fertiliser to the centre of two spinners (1) (Fig 7) which throws the fertiliser with the help of four directional flights (11) outwards to cover a span of at least 25 metres.
- The hydraulic system is both protected and controlled by the control valve assembly. Spinners speed and Pressure relief valve (10) (Fig 7) are factory set and should not need adjustment. A Non Return Valve (8) is installed to prevent inadvertent hose connection.
- The rear door shutter (3) is adjusted via the screw thread shutter control (12) and is manually operated by a handle (Fig. 8).
- The volume allowed under the shutter (3) onto the belt (4) is indicated by a scale (9) on the end of the bin (Fig 8). Each segment on the scale indicates 100 Kgs per hectare (approx) or 1 cwt per acre (approx) relating to the spread rate for the 4000 spreader. The spread rate for the 6000 spreader is calculated at a multiple of 2.6 times that of the 4000 spreader rates.

CUB TORNADO SPREADERS

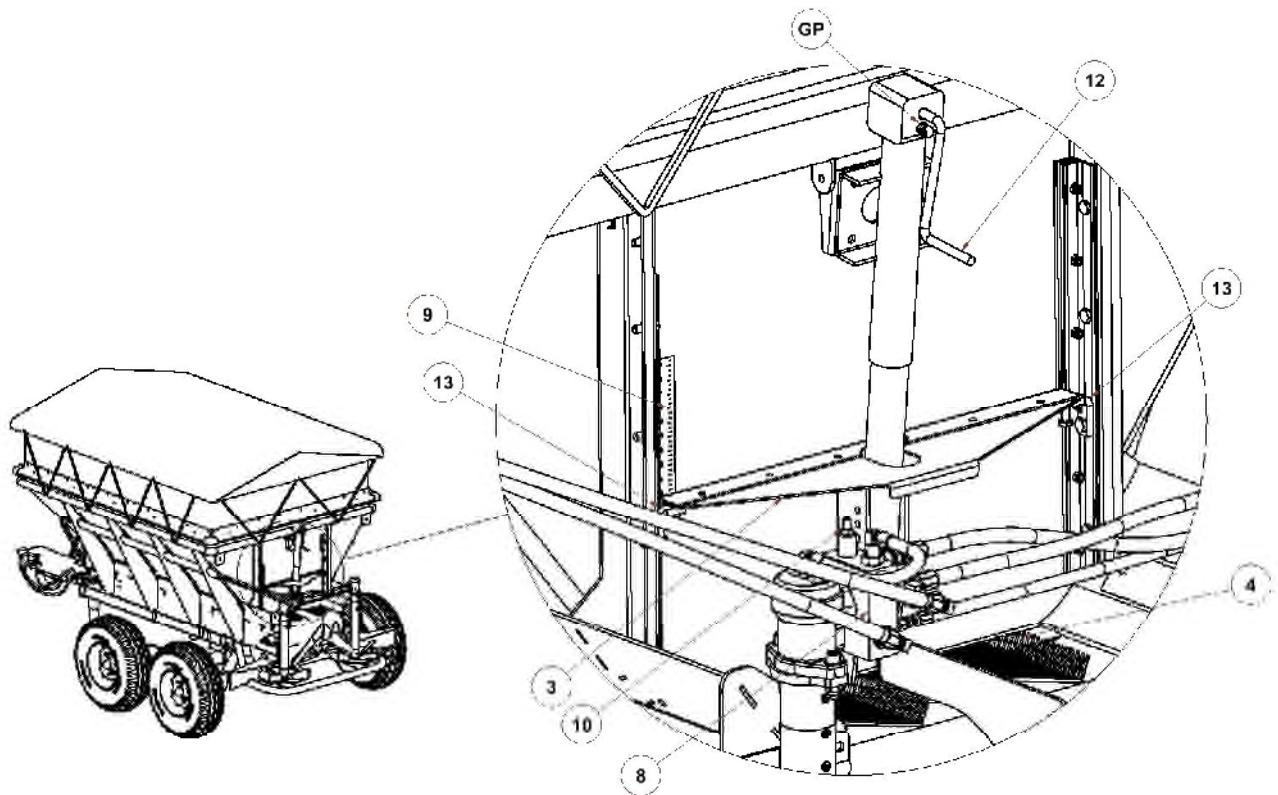


Figure 8 – Rear Shutter Control

- Stops (13) (fig 8) each side of the shutter are factory set to stop the shutter from contacting the belt. A minimum 2mm clearance between the belt (4) and lower edge of shutter (3) should be clearly visible throughout the entire belt rotation.

CAUTION

Decreasing or closing the shutter to belt clearance could seriously damage many of the spreaders mechanical components.

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Table 1 is a guide to the flow of fertiliser from the bin.

Table 1 - Fertiliser Settings Guide

Spread Rates Calculated based on belt width: (width between side skirts)

- S4000TA, 230mm wide belt
S6000TA, 600mm wide belt

IMPORTANT

Spinner Speeds set to 850 RPM

| Scale | Urea @24 Meters (Kg/Ha) | | Super @24 Meters (Kg/Ha) | | Lime @10 Meters (Kg/Ha) | |
|-------|----------------------------|---------|-----------------------------|---------|----------------------------|---------|
| | S4000TA | S6000TA | S4000TA | S6000TA | S4000TA | S6000TA |
| 9 | | | 900 | 2340 | 2250 | 5850 |
| 8 | | | 800 | 2080 | 1900 | 4940 |
| 7 | | | 700 | 1820 | 1550 | 4030 |
| 6 | 360 | 940 | 600 | 1560 | 1200 | 3120 |
| 5 | 300 | 780 | 500 | 1300 | 850 | 2210 |
| 4 | 240 | 630 | 400 | 1040 | 500 | 1300 |
| 3 | 180 | 470 | 300 | 780 | | |
| 2 | 120 | 300 | 200 | 520 | | |
| 1 | 60 | 160 | 100 | 260 | | |

CUB TORNADO SPREADERS



MAINTENANCE

Maintenance should be undertaken regularly. Good maintenance will extend the life of the spreader and allow safe use.

WARNING

1. *Always disconnect the spreaders hydraulics from the tractor before servicing*
2. *Insure the spreader is on level ground and secured*
3. *Insure there is adequate lighting*

Maintenance Checks/Inspection

- Check the wheel bearings for play (by rocking wheel assemblies) and pack with grease every six months.
- Check Idler sprocket/ gear assembly for play, wear and damage.
- Inspect engagement clearance of gears is set 1mm – 5mm. Adjust stops as required
- Check the feed belt for cuts, wear and misalignment.
- Inspect condition and wear in side and front sealing skirts (Bin to Belt). Excessive leakage will occur if not sealing adequately.
- Check the drive chains for wear and damaged.

IMPORTANT. *Chains should be removed and cleaned at the end of the season. Both chains are fitted with joining links to facilitate this process.*

- Inspect hydraulic motors, control valve, engagement ram and hoses for leaks and loose fitting.
- Inspect condition of all chain guards (when fitted as an Option)
- Inspect spinners for excessive movement. Some moment should be felt.
- Check spinner bolts that secure 8 x spinner flights are secured.
- Check that all safety decals are in place and legible.
- Check the tyres for wear, cuts, bulging and correct

WARNING. *Always follow manufactures recommendations for tyre pressure. Recommended pressure 480 kPa, 4.8 Bar, 68 psi.*

- Check that the flow control shutter slide is true and is free to move and stops set to ensure shutter stops at lowers position clear of belt. Min 2mm
- Inspect cover for holes and connecting bungee retains the cover adequately.
- Figure 9, 10 and 11 indicates the Grease Points (GP) on the spreader. Oil is also recommended in a few area

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Maintenance (*continued*)

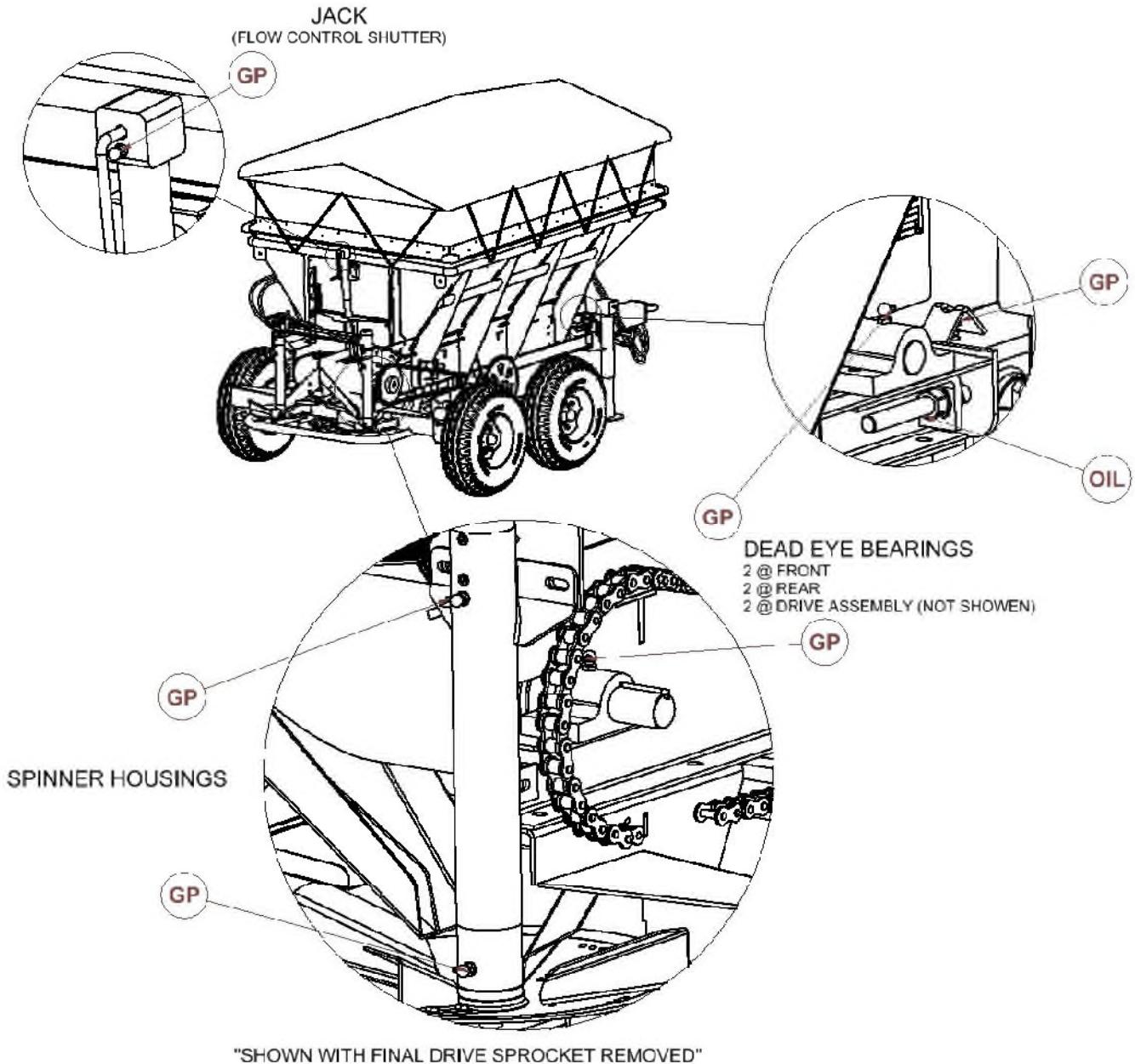


Figure 9 – Grease Points (GP)

IMPORTANT: Critical Greasing!!

Initial greasing of the six dead eye bearing blocks (Part N° SPU012) is very important for their life.

- *Grease at every load for the first ten loads to ensure block becomes impregnated with grease. Thereafter grease every day when bearing is warm*

CUB TORNADO SPREADERS

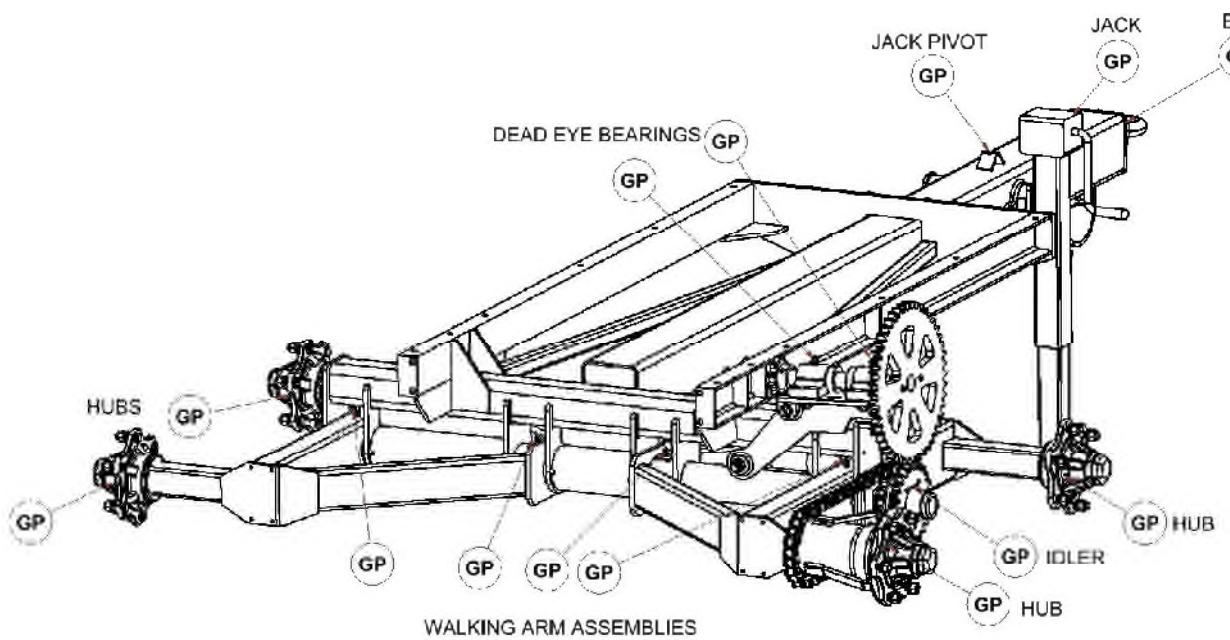


Figure 10 – Grease Points

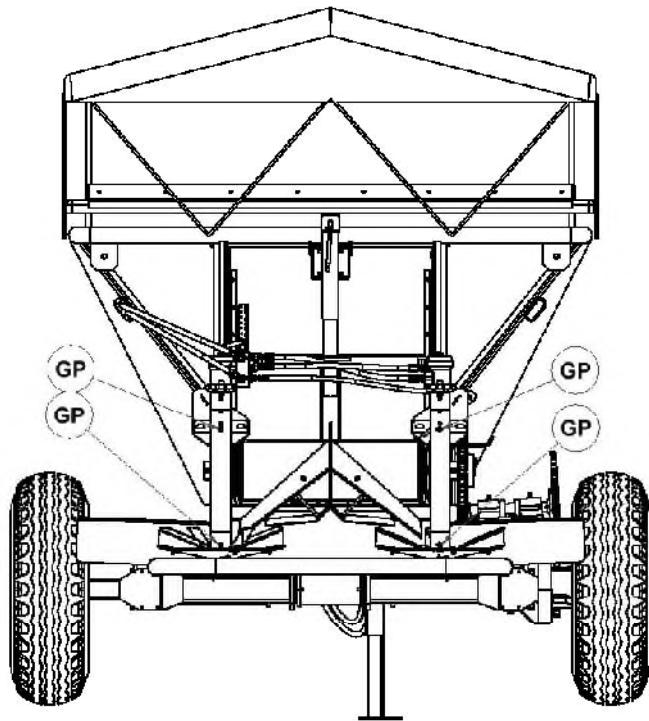


Figure 11 – Grease Points - Spinners

Lubrication Requirements: 1 pump per grease nipple per 10 hours operation

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REPLACEMENT PARTS

- To order replacement parts, Contact your local dealer and please quote the spreader type and serial number as detailed on the serial number plate. Please refer to the separate Illustrated Spare Parts Catalogue for in-depth information or contact parts@agriquip.co.nz

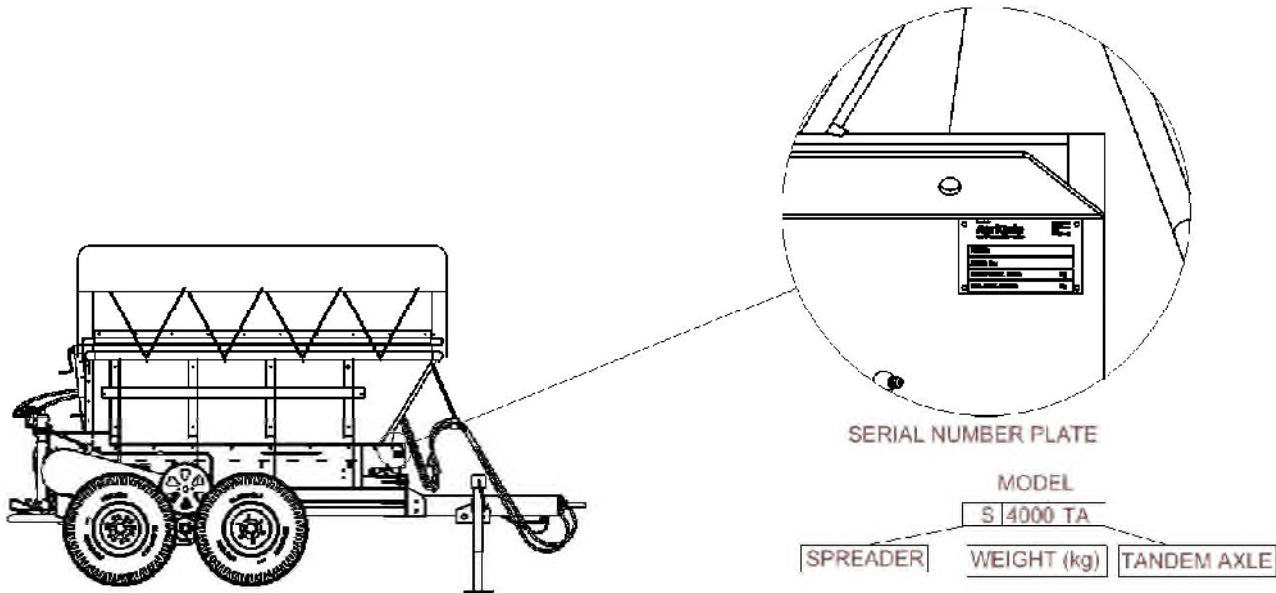


Figure 12 - Identification

Only use genuine AGRIQUIP replacement parts!

parts@agriquip.co.nz

Due to AgriQuip's on-going commitment to product improvement, we reserve the right to change at any time, product specifications and configurations of this product without prior notice.

Every care has been taken to compile the contents of this document and it is expected some errors may exist at the time of publication that AgriQuip cannot be held responsible for. Please contact AgriQuip if you have any concerns relating to the accuracy of information detailed in this manual and for any assistance relating to information not listed for this product.





TORNADO CUB SPREADERS

ILLUSTRATED SPARE PARTS CATALOGUE

CUB
Tornado

CUB TORNADO

SPREADERS 4000/6000

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QUICK PARTS SEARCH - SUPPLIED BY AGRQUIP

Effective Date: Nov 2013

TORNADO SPREADERS: 4000, 6000

| | Qty | \$4000 TA | \$6000 TA | | | | | Ref Pages |
|--|-----|-----------|-----------|--|--|--|--|-----------|
| <u>Chassis</u> | | | | | | | | |
| Wheel Hub (Qty per Hub) | | | | | | | | |
| Hub | 1 | SP4520 | SP6520 | | | | | |
| Inner Bearing (Large) | 1 | SP4521 | SP6521 | | | | | |
| Outer Bearing (Small) | 1 | SP4522 | SP6522 | | | | | |
| Seal | 1 | SP4523 | SP6525 | | | | | |
| Wheel Nut | 24 | SPU319 | SPU319 | | | | | |
| Wheel Assembly (Qty per spreader) | | | | | | | | |
| Wheel Assy (Standard) | 4 | SPU320 | SPU320 | | | | | |
| Tyre Only - (Standard) | 4 | SPU40 | SPU40 | | | | | |
| Tyre - Only AW (Option) | 4 | SP6431 | SP6431 | | | | | |
| Tyre - Only Traction (Option) | 4 | SP6432 | SP6432 | | | | | |
| Tube | A/R | SPU356 | SPU356 | | | | | |
| Rim - g" | 4 | SP6430 | SP6430 | | | | | |
| Rim - 13" | | | | | | | | |
| <u>Idler Hub</u> | | | | | | | | |
| Hub | 1 | SPU349 | SPU340 | | | | | |
| Inner Bearing (Large) | 1 | SPU343 | SPU343 | | | | | |
| Outer Bearing (Small) | 1 | SPU344 | SPU344 | | | | | |
| Seal | 1 | SPU345 | SPU345 | | | | | |
| <u>Belt Assembly</u> | | | | | | | | |
| Feed Belt, Chain, Joiner Assy (Complete) | 1 | SP6303 | SP6303 | | | | | |
| Feed Belt Only | 1 | SP4055J | SP6304 | | | | | |
| Chain Feed Bar Assy | 1 | SP4101 | SP6326 | | | | | |
| Joiner - Hinge - Belt | 1 | SP4055J | SP6423 | | | | | |
| Joiner - Hinge Rod - Belt | 1 | SP4055J.R | SP6424 | | | | | |
| Rivet | A/R | SPU1055R | SPU1055R | | | | | |
| Washer - S/5 | A/R | SPU055W | SPU055W | | | | | |
| <u>Skirts (Rubber Bin Seals)</u> | | | | | | | | |
| Side | 2 | SP4082 | SP6390 | | | | | |
| Forward | 1 | SP4029 | SP6280 | | | | | |
| Towing Eye (12600kg, 44mm Dia) | | | | | | | | |
| Tow Eye (Inner Swivel Eye Only) | 1 | SP4385 | SP4385 | | | | | |
| Outer Housing - Bolted (inc replacement eye) | 1 | SP4370 | SP4370 | | | | | |
| Jack Assy (inc Jack Tube Assy) | 1 | SP4360 | SP4360 | | | | | |
| <u>Drive System</u> | | | | | | | | |
| <u>Gears</u> | | | | | | | | |
| Gear - 48T | 1 | SPU015-48 | SPU015-48 | | | | | |
| Share Bolt - 48T Sprocket | 2 | SPU322 | SPU322 | | | | | |
| Gear - 24T | 1 | SP4480 | SP4480 | | | | | |
| <u>Sprocket</u> | | | | | | | | |
| Sprocket - 11T | 1 | SP4085B | SP4085B | | | | | |
| Sprocket - 23T Drive Hub | 1 | SP4481 | SP4481 | | | | | |
| Wheel Drive Sprocket Assy | 1 | SP4308 | SP4308 | | | | | |
| Sprocket - 36T | 1 | SPU011 | SPU011 | | | | | |
| Dead Eye (Shaft Journal Bearings) | 6 | SPU012 | SPU012 | | | | | |
| <u>Chain</u> | | | | | | | | |
| Sprocket Drive (Wheels) | 1 | SPU326 | SPU326 | | | | | |
| Mat Drive | 1 | SPU315 | SPU315 | | | | | |
| Joining Link | 2 | SPU325 | SPU325 | | | | | |

QUICK PARTS SEARCH - SUPPLIED BY AGRQUIP

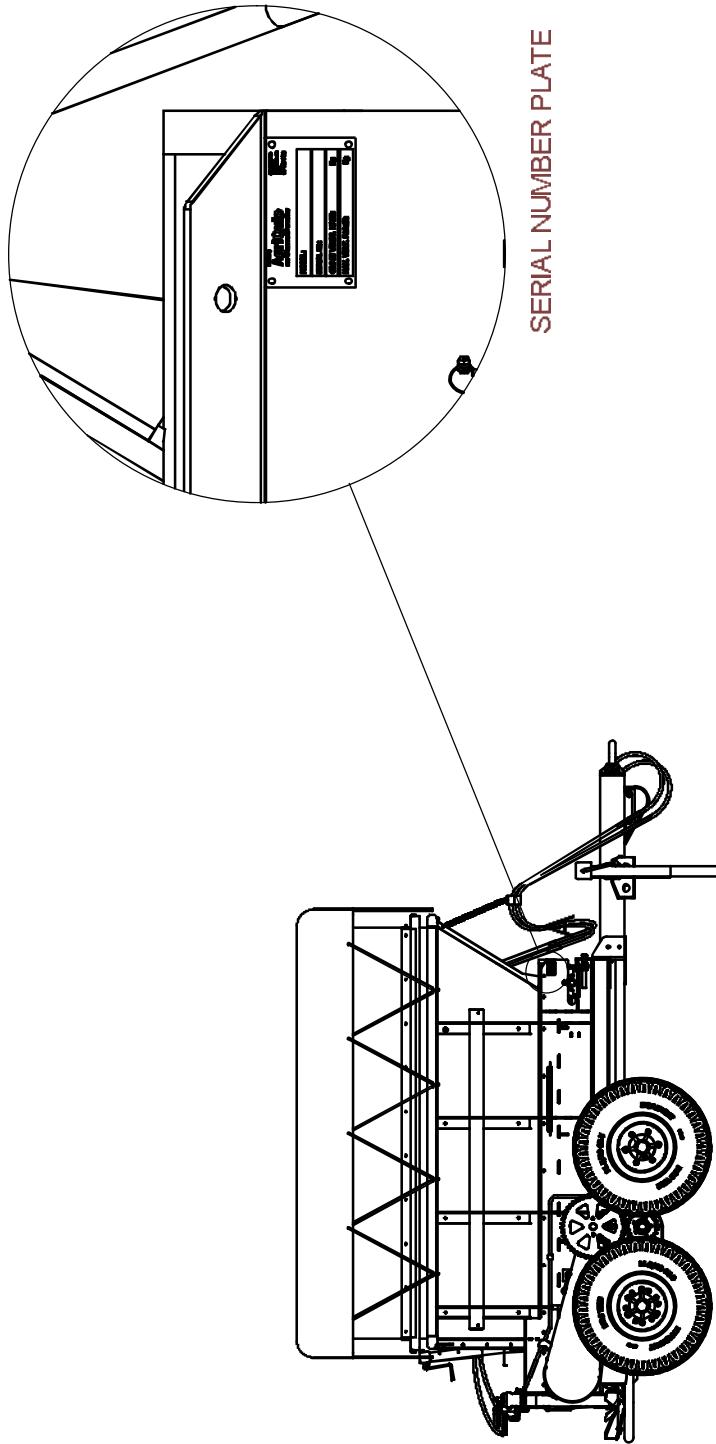
Effective Date: Nov 2013

TORNADO SPREADERS: 4000, 6000

| | Qty | SP4000TA | SP6000TA | | | | | Ref Pages |
|---|-----|----------|----------|--|--|--|--|-----------|
| Hydraulics | | | | | | | | |
| Hydraulic Motor | 1 | SP4070 | SP4070R | | | | | |
| Hyd Motor - Seal Kit Only | 1 | SP4070R | SP4070R | | | | | |
| Control Valve | 1 | SPU003 | SPU003 | | | | | |
| Engage Ram | 1 | SPU057 | SPU057 | | | | | |
| Ram | 1 | SPU125 | SPU125 | | | | | |
| Seal Kit | A/R | | | | | | | |
| Hoses | | | | | | | | |
| Hose Kit (all below inc fittings) | 1 | 270813 | | | | | | |
| Main Delivery | 1 | SP4500 | SP6500 | | | | | |
| Main Return | 1 | SP4501 | SP6501 | | | | | |
| R/H Spinner feed | 1 | SP4502 | SP6502 | | | | | |
| R/H Spinner Return | 1 | SP4503 | SP6503 | | | | | |
| Engagement Hose | 1 | SP4404 | SP6404 | | | | | |
| R/H Drain | 1 | SP4505 | SP6505 | | | | | |
| Engage Hose inc QC (option) | 1 | SP6506 | | | | | | |
| Slides | | | | | | | | |
| Rear Door | 1 | SP6346 | | | | | | |
| Horizontal Door Slide | 4 | SP4410 | SP4410 | | | | | |
| Vertical Door Slides | | | | | | | | |
| Spinners (Qty per Spinner) | | | | | | | | |
| Spinner Assy (less coupler, motor, flights) | 2 | SPU321 | SPU321 | | | | | |
| Spinner Assy (spares) | | | | | | | | |
| Individual Parts | | | | | | | | |
| Outer Tube Assy | 1 | SPU307 | SPU307 | | | | | |
| Spinner Shaft - Disc Assembly | 1 | SPU306 | SPU306 | | | | | |
| Drive Coupler (2 x Halves & Element) | 1 | SPU005 | SPU005 | | | | | |
| Coupler Element (Rubber) | 1 | SPU073 | SPU073 | | | | | |
| Bearing | 2 | SPU182 | SPU182 | | | | | |
| Oil Seal | 1 | SPU181 | SPU181 | | | | | |
| Trust Bush | 1 | SPU305 | SPU305 | | | | | |
| Flights | | | | | | | | |
| Flights - LH | 4 | SP6486 | | | | | | |
| Flights - RH | 4 | SP6487 | | | | | | |
| Fixings | | | | | | | | |
| Cover (Standard) | 1 | SP4C | SP6C | | | | | |
| Cover Rail - Fixed (Standard) | 1 | SP6420 | SP6420 | | | | | |
| Cover Assy Kit - Rolling (Option) | A/R | SPU361 | SPU361 | | | | | |
| Spreader Bar Assy | 1 | SP6417 | SP6417 | | | | | |
| Light Kit (option) | 1 | SPU360 | SPU360 | | | | | |

MODELS EFFECTED: ALL SPREADERS SN1309287 ONWARDS

INCLUDES MODELS: **S4000TA & S6000TA TORNADO**



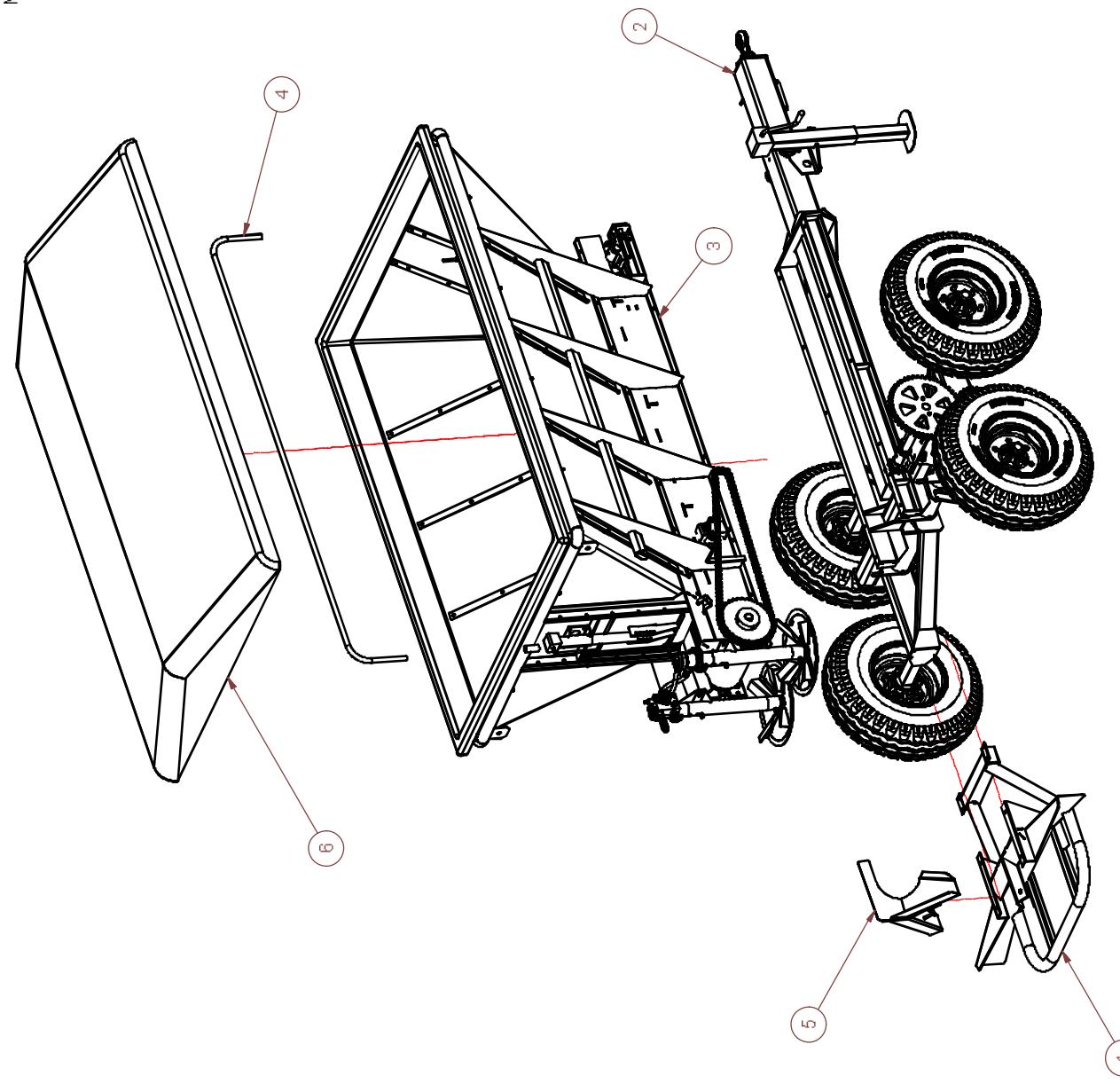
FINAL ASSEMBLIES 4000

ASSEMBLY SP4300

Effective Date: 11/10/2013

MODELS EFFECTED: ALL S4000TA SPREADERS SIN 1309282 ONWARDS

INCLUDES MODELS: **S4000TA TORNADO**



Use Only Genuine AgriQuip Replacement Parts

AgriQuip

**CUB
Tornado**

ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|--|
| 1 | 1 | SP4390 | REAR DEFLECTOR - WELDED ASSY |
| 2 | 1 | SP4349 | DRAWBAR ASSEMBLY INC RUNNING GEAR |
| 3 | 1 | SP4307 | TOP FRAME INSTALLATION, INC RUNNING GEAR |
| 4 | 1 | SP4317 | COVER RAIL - CUB TORNADO 4000 |
| 5 | 1 | SP4513 | DIVERTER ASSY - 4T |
| 6 | 1 | SP4C | COVER ASSEMBLY - FIXED |

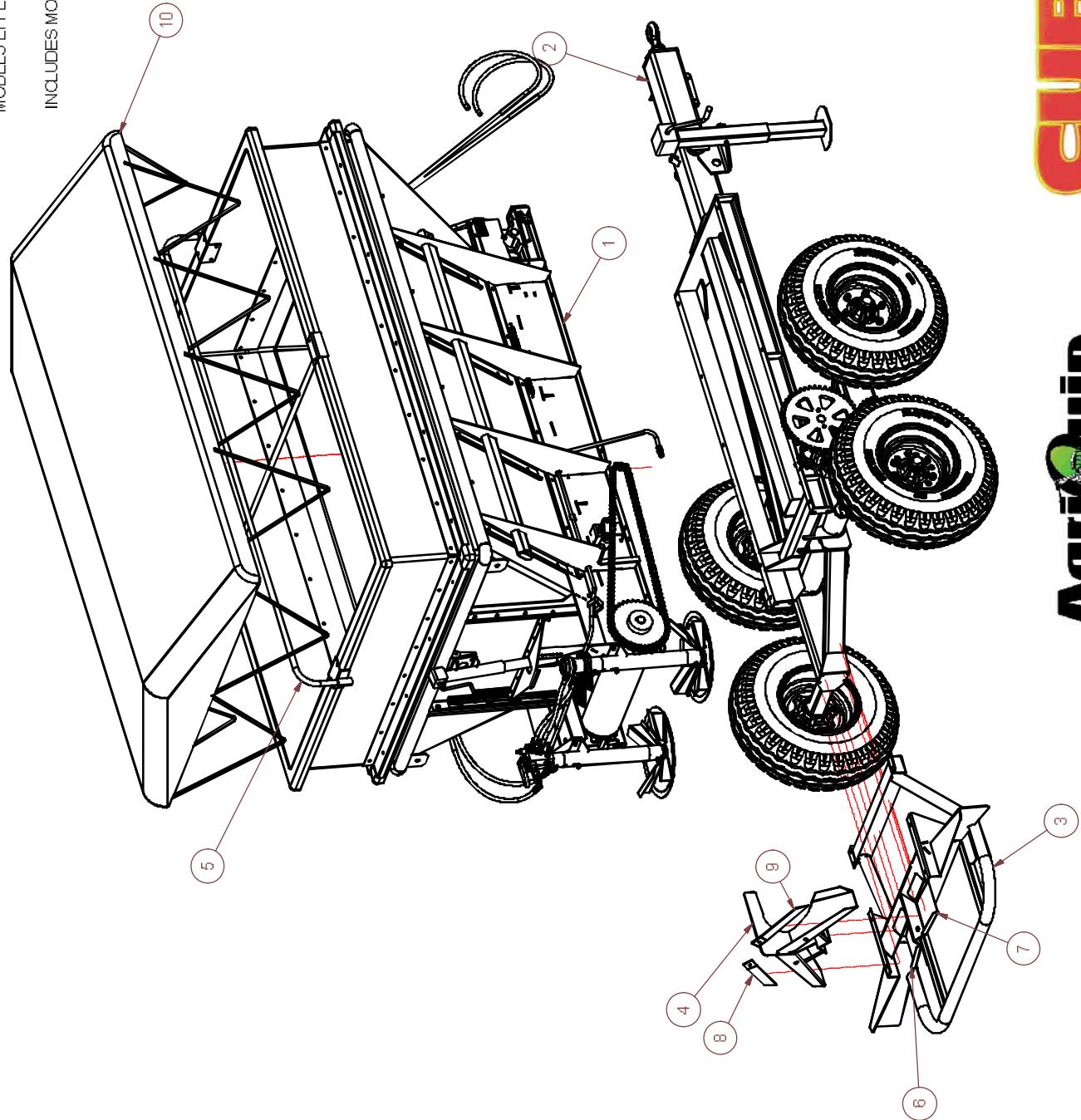
FINAL ASSEMBLIES 6000

ASSEMBLY SP6300

Effective Date: 11/10/2013

MODELS EFFECTED: ALL SPREADERS S/N 1309287 ONWARDS

INCLUDES MODELS: **S6000TA TORNADO**



Use Only Genuine AgriQuip Replacement Parts

CUB
Tornado

Agri
Quip

ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|--|
| 1 | 1 | SP6306 | TOP FRAME INSTALLATION, INC RUNNING GEAR |
| 2 | 1 | SP6314 | DRAWBAR ASSEMBLY INC RUNNING GEAR |
| 3 | 1 | SP6316 | BUMPER FRAME - WELDED ASSEMBLY |
| 4 | 1 | SP6370 | DIVERTER ASSY - 6T |
| 5 | 1 | SP6420 | COVER RAIL - 6T |
| 6 | 1 | SP6476 | DEFLECTOR - LOWER CHUTE WELD ASSY- LH |
| 7 | 1 | SP6479 | DEFLECTOR - LOWER CHUTE WELD ASSY- RH |
| 8 | 1 | SP6482 | VEIN - LH- DEFLECTOR |
| 9 | 1 | SP6483 | VEIN - RH- DEFLECTOR |
| 10 | 1 | CJB4/6CC2 | COVER ASSEMBLY - FIXED |

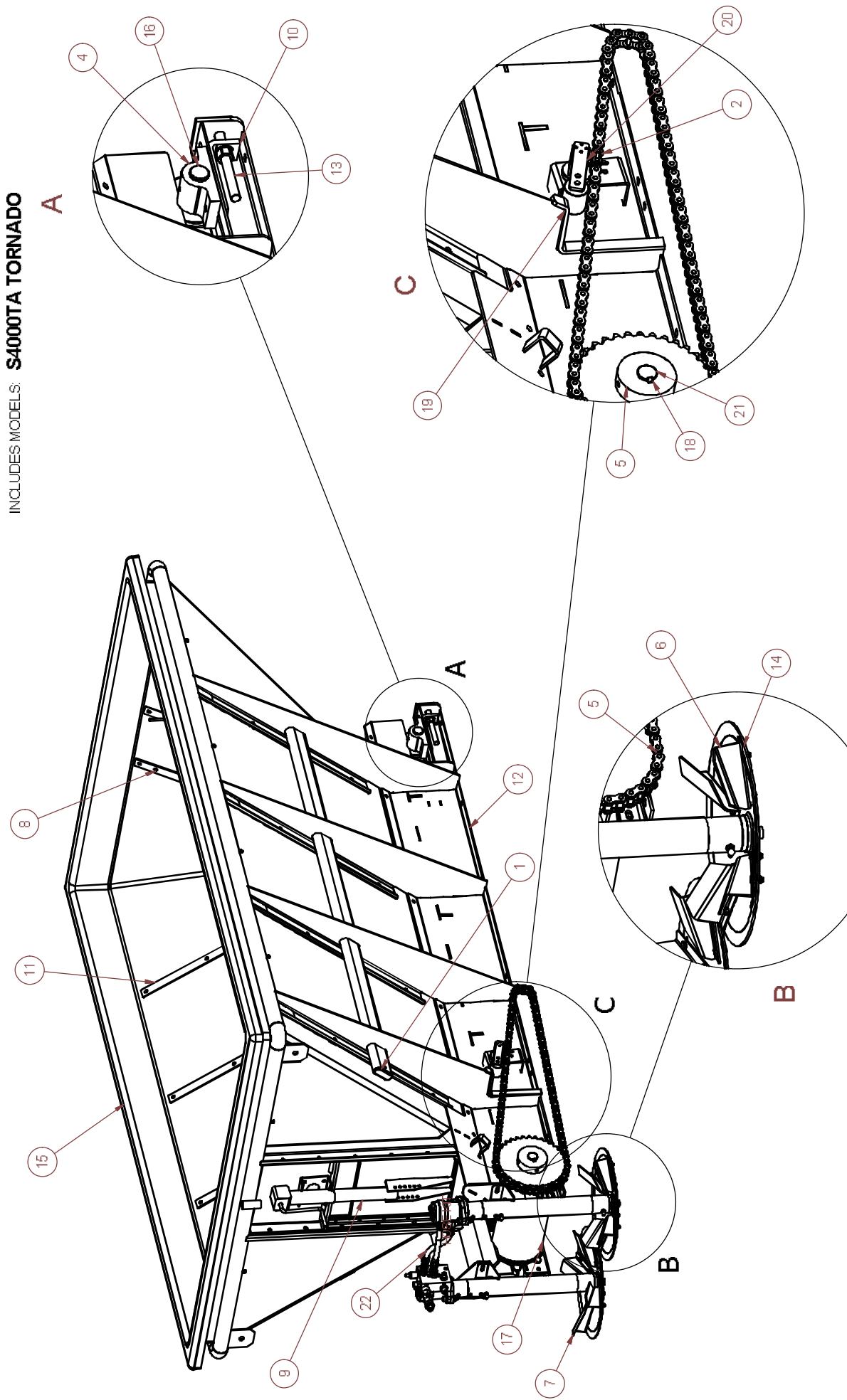
UPPER BIN ASSEMBLY 4000

ASSEMBLY SP4307

Effective Date: 11/10/2013

MODELS EFFECTED: ALL S4000TA SPREADERS SINCE 1309282 ONWARDS

INCLUDES MODELS: **S4000TA TORNADO**



Use Only Genuine AgriQuip Replacement Parts

**CUB
Tornado**

AgriQuip

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ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|---|
| 1 | 2 | SPU362 | BUNG - HOSE RAIL |
| 2 | 1 | SPU325 | LINK - CONNECTOR - DRIVE CHAIN |
| 4 | 4 | SPU012 | BEARING - DEAD EYE (75mm) |
| 5 | 1 | SPU011 | SPROCKETT - 36T X 1" X 40mm SHAFT |
| 6 | 4 | SP4487 | FLIGHT - RH - 4T - M11 |
| 7 | 4 | SP4486 | FLIGHT - LH - 4T - M11 |
| 8 | 2 | SP4424 | DOUBLER - INTERNAL - FRONT STAUNCHION |
| 9 | 1 | SP4400 | REAR DOOR - ASSEMBLY |
| 10 | 2 | SP4387 | BRACKET - WELDED ASSY - CHAIN TENTIONER |
| 11 | 8 | SP4345 | DOUBLER - INTERNAL HOPPER |
| 12 | 1 | SP4341 | FRAME ASSEMBLY - WELDED - GALV |
| 13 | 2 | SP4337 | CHAIN ADJUSTER - WELDED ASSY |
| 14 | 1 | SP4311 | SPINNER ASSY - RH |
| 15 | 1 | SP4302 | BN - 4T |
| 16 | 1 | SP4100 | SHAFT - IDLER - FRONT |
| 17 | 1 | SP4074 | BELT & CHAIN ASSY |
| 18 | 1 | SP4072 | KEY - 10mm X 10mm X 65mm |
| 19 | 1 | SP4070R | ROLLER - CHAIN TENSIONER |
| 20 | 1 | SP4070 | CHAIN TENSIONER ASSEMBLY |
| 21 | 1 | SP4013 | SHAFT - DRIVEN - REAR |
| 22 | 1 | 041212 | HOSE KIT - 4000 |

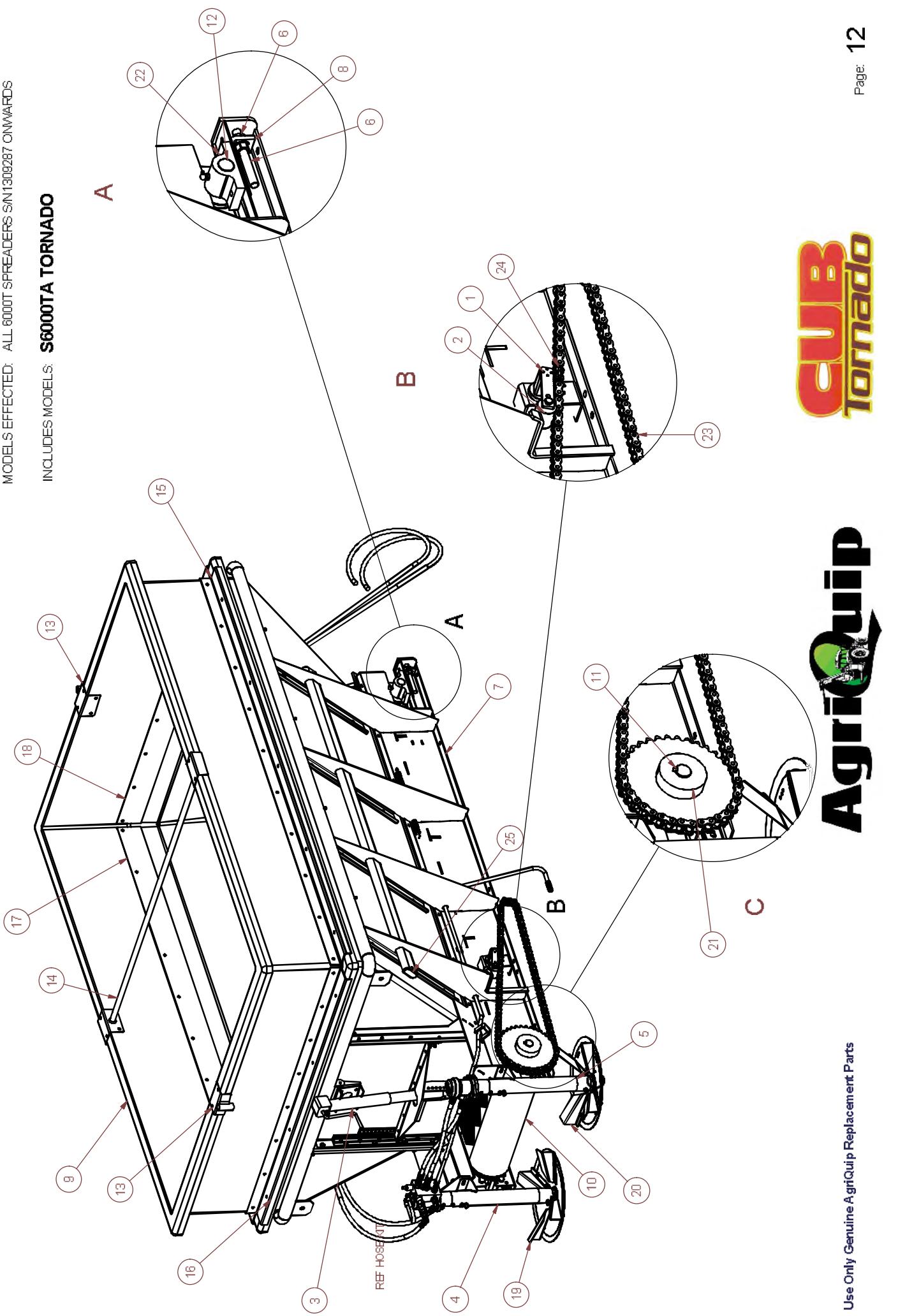
UPPER BIN SECTION 6000

ASSEMBLY SP6306

Effective Date: 11/10/2013

MODELS EFFECTED: ALL 6000T SPREADERS SINCE 1309287 ONWARDS

INCLUDES MODELS: S6000TA TORNADO



ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|---|
| 1 | 1 | SP4070 | CHAIN TENSIONER ASSEMBLY |
| 2 | 1 | SP4070R | ROLLER - CHAIN TENSIONER |
| 3 | 1 | SP4306 | REAR DOOR JACK ASSEMBLY |
| 4 | 1 | SP4310 | SPINNER ASSY - LH |
| 5 | 1 | SP4311 | SPINNER ASSY - RH |
| 6 | 2 | SP4337 | CHAIN ADJUSTER - WELDED ASSY |
| 7 | 1 | SP4341 | FRAME ASSEMBLY - WELDED - GALV |
| 8 | 2 | SP4387 | BRACKET - WELDED ASSY - CHAIN TENTIONER |
| 9 | 1 | SP6302 | BIN EXT - 6T |
| 10 | 1 | SP6303 | FLOOR MAT & CHAIN ASSY - 6T |
| 11 | 1 | SP6362 | DRIVEN SHAFT ASSY |
| 12 | 1 | SP6365 | SHAFT ASSY - IDLER - FRONT 6T |
| 13 | 2 | SP6414 | COVER CHANNEL ASSY - BIN 6T |
| 14 | 1 | SP6417 | SPREADER BAR ASSY - BIN 6T |
| 15 | 2 | SP6470 | DOUBLER - SIDE - BIN EXT |
| 16 | 2 | SP6471 | DOUBLER - SIDE - BIN EXT |
| 17 | 2 | SP6472 | DOUBLER - SIDE - BIN EXT |
| 18 | 2 | SP6473 | DOUBLER - SIDE - BIN EXT |
| 19 | 4 | SP6486 | FLIGHT - LH - 6T - MII |
| 20 | 4 | SP6487 | FLIGHT - RH - 6T - MII |
| 21 | 1 | SPU011 | SPROCKET - 36T X 1" X 40mm SHAFT |
| 22 | 4 | SPU012 | BEARING - DEAD EYE (75mm) |
| 23 | 1 | SPU315 | CHAIN - SPROCKET MAT DRIVE - 98 LINK |
| 24 | 1 | SPU325 | LINK - CONNECTOR - DRIVE CHAIN |
| 25 | 2 | SPU362 | BUNG - HOSE RAIL |

| ITEM | QTY | PART NUMBER | P/N 270813 HOSE KIT DESCRIPTION |
|------|-----|-------------|----------------------------------|
| 1A | 1 | SP6500 | MAIN DELIVERY |
| 1B | 1 | SP6501 | MAIN RETURN |
| 1C | 1 | SP6502 | RH SPINNER FEED |
| 1D | 1 | SP6503 | RH SPINNER RETURN |
| 1E | 1 | SP6404 | ENGAGEMENT HOSE |
| 1F | 1 | SP6505 | RH DRAIN |
| 83 | 1 | SP6404.R2 | |
| 84 | 4 | SPU300 | GREASE NIPPLE - M10 X 90DEG SS/S |
| 85 | 1 | Door decal | |

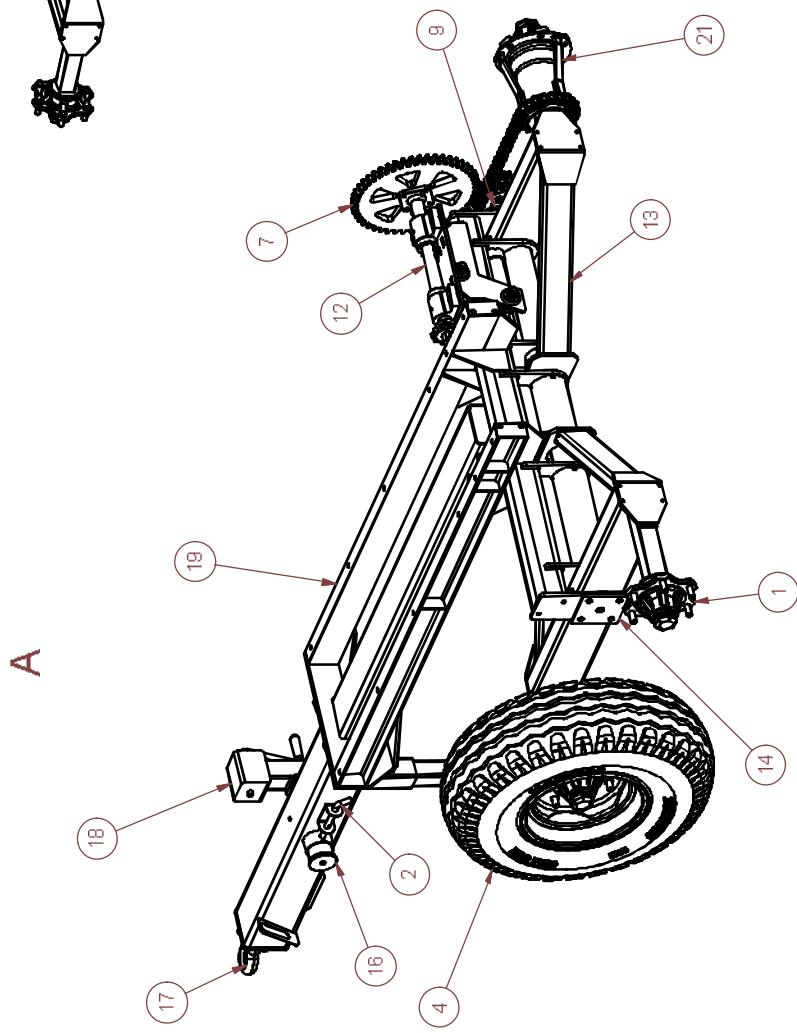
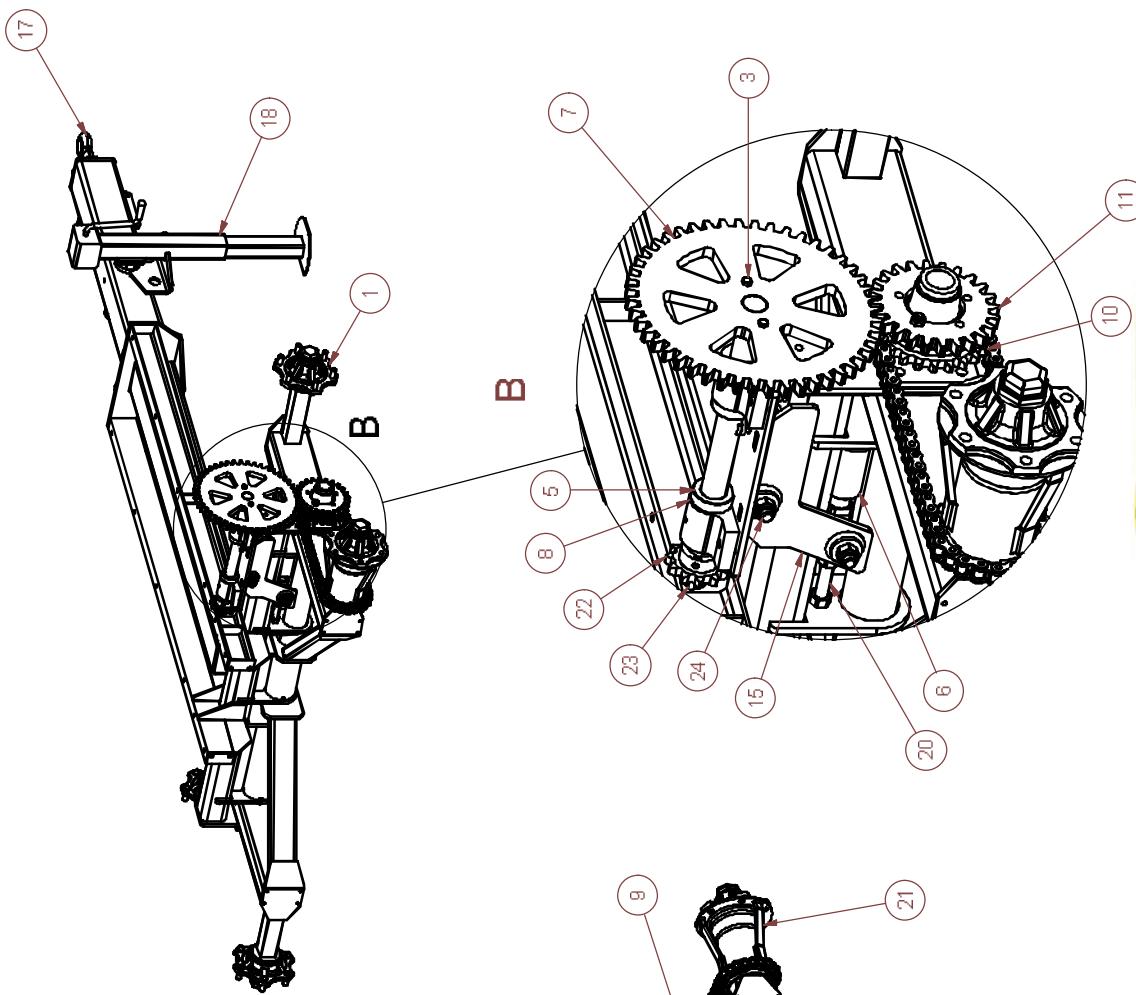
LOWER CHASSIS ASSEMBLY 4000

ASSEMBLY SP4349

Effective Date: 11/10/2013

MODELS EFFECTED: ALL S4000TA SPREADERS S/N 1309282 ONWARDS

INCLUDES MODELS: **S4000TA TORNADO**



CUB
Tornado

Agrinóquip

ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|--|
| 1 | 3 | SPU331 | HUB - 60mm |
| 2 | 1 | SPU323 | SLIDE BOLT PIN |
| 3 | 2 | SPU322 | BOLT - SHARE - M8 X 50 - 4.4 |
| 4 | 4 | SPU320 | RIM AND TIRE ASSEMBLY - 11.5 - 80 - 15.3 |
| 5 | 2 | SPU059 | COLLAR - 40MM SHAFT |
| 6 | 1 | SPU057 | ENGAGE RAM - CUB |
| 7 | 1 | SPU016-48 | GEAR 46T |
| 8 | 2 | SPU012 | BEARING - DEAD EYE (75mm) |
| 9 | 1 | SP6385 | MAIN AXLE - WALKING ARM |
| 10 | 1 | SP4481 | SPROCKET 23T- DRIVE HUB |
| 11 | 1 | SP4480 | GEAR 24T - IDLER |
| 12 | 1 | SP4477 | TRANSFER SHAFT ASSY - ROCKER PLATE - 4T |
| 13 | 2 | SP4450 | WALKING ARM - WELDED ASSEMBLY |
| 14 | 1 | SP4445 | RETAINER FLANGE - AXLE |
| 15 | 1 | SP4440 | PVOT ASSEMBLY - BELT ENGAGE |
| 16 | 1 | SP4429 | PVOT TUBE STOP PLATE |
| 17 | 1 | SP4385 | TOW EYE ASSEMBLY - PURCHASED |
| 18 | 1 | SP4360 | MAIN JACK ASSEMBLY |
| 19 | 1 | SP4350 | DRAWBAR- REMOVEABLE - WELDED ASSY |
| 20 | 1 | SP4346 | RAM TEE - ENGAGE STOP |
| 21 | 1 | SP4308 | WHEEL DRIVE SPROCKET ASSY |
| 22 | 1 | SP4085B | 11 TOOTH SPROCKET (1" CHAIN) |
| 23 | 1 | SP4072 | KEY - 10 X 10 X 65 |
| 24 | 2 | M20x180 | BOLT - HEX - GALV |

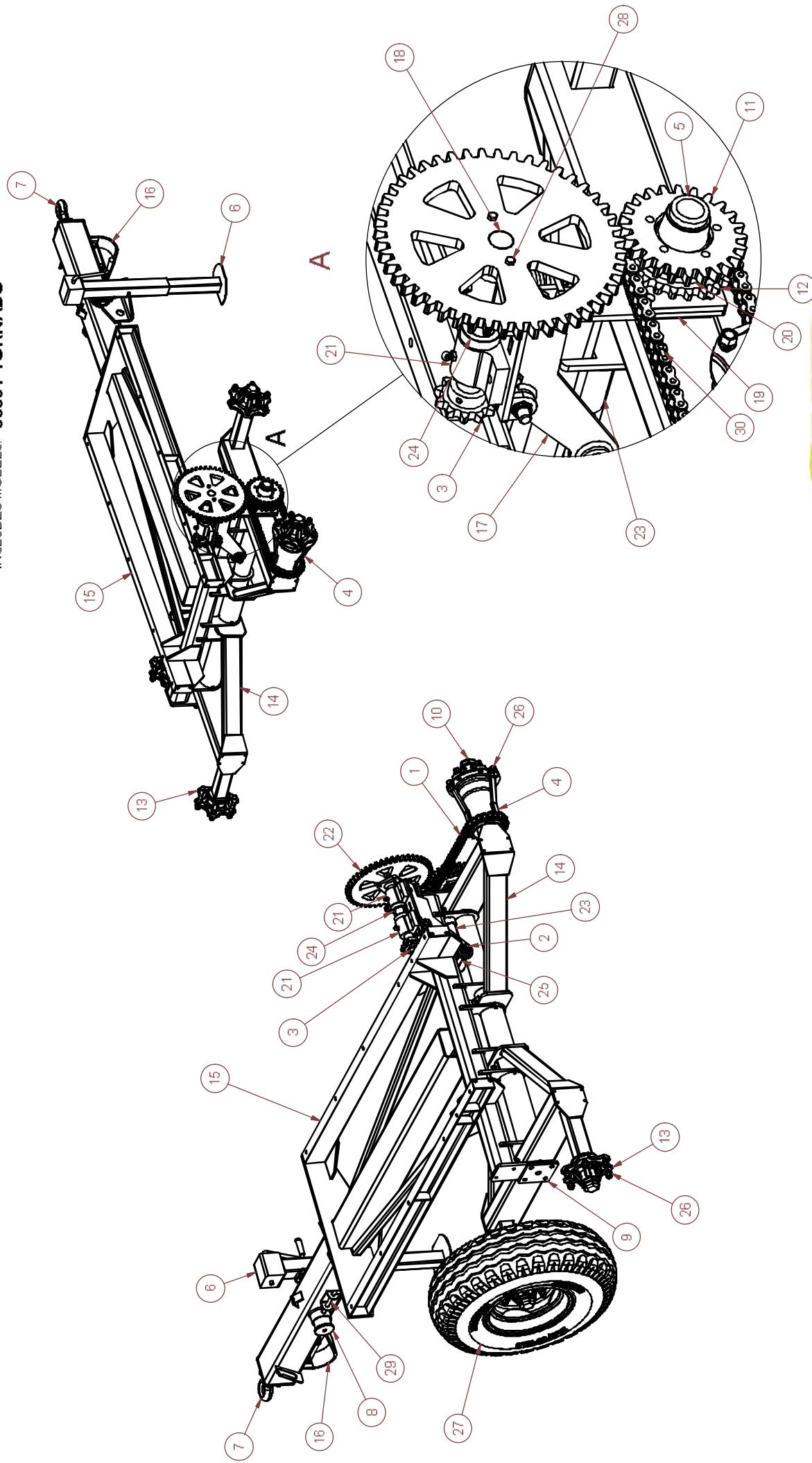
LOWER CHASSIS ASSEMBLY 6000

ASSEMBLY SP6314

Effective Date: 11/10/2013

MODELS EFFECTED: ALL 6000TA SPREADERS SIN 1309287 ONWARDS

INCLUDES MODELS: 6000T TORNADO



**CUB
Tornado**

AgriQuip

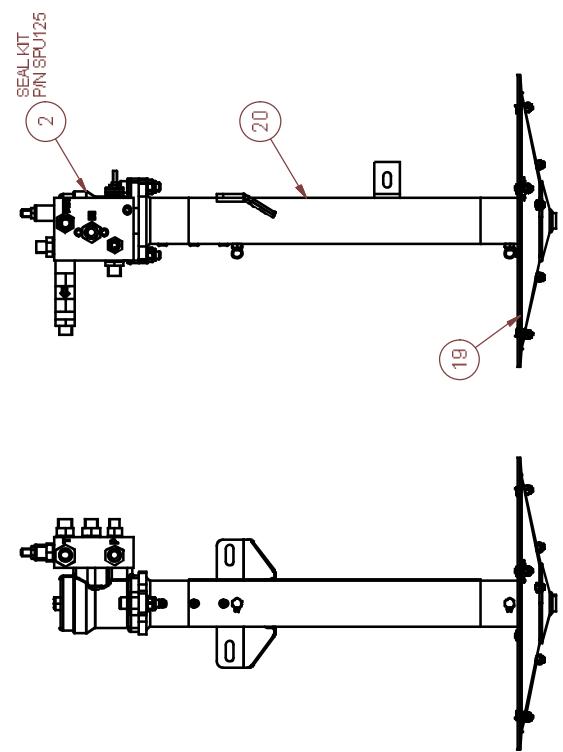
ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|--|
| 1 | 1 | Chain2 | |
| 2 | 1 | M20x180 | BOLT - HEX - GALV |
| 3 | 1 | SP4085B | 11 TOOTH SPROCKET (1" CHAIN) |
| 4 | 1 | SP4308 | WHEEL DRIVE SPROCKET ASSY |
| 5 | 1 | SP4309 | STUB AXLE ASSEMBLY - IDLER |
| 6 | 1 | SP4360 | MAIN JACK ASSEMBLY |
| 7 | 1 | SP4370 | TOW EYE ASSEMBLY - DRAW BAR |
| 8 | 1 | SP4429 | PVOT TUBE STOP PLATE |
| 9 | 1 | SP4445 | RETAINER FLANGE - AXLE |
| 10 | 1 | SP4466 | HUB - 60mm - MACHINED |
| 11 | 1 | SP4480 | GEAR 24T - IDLER |
| 12 | 1 | SP4481 | SPROCKET 23T- DRIVE HUB |
| 13 | 3 | SP4520 | HUB - (60mm X 60mm AXLE) |
| 14 | 2 | SP6307 | WALKING ARM - WELDED ASSEMBLY |
| 15 | 1 | SP6315 | DRAWBAR- REMOVEABLE - WELDED ASSY |
| 16 | 1 | SP6323 | QUICK HITCH STAND - (OPTION) |
| 17 | 1 | SP6350.R2 | PVOT ASSEMBLY - BELT ENGAGE |
| 18 | 1 | SP6360 | TRANSFER SHAFT - ROCKER PLATE |
| 19 | 1 | SP6385 | MAIN AXLE - WALKING ARM |
| 20 | 1 | SP6407 | SPACER - 26T SPROCKET |
| 21 | 2 | SPU012 | BEARING - DEAD EYE (75mm) |
| 22 | 1 | SPU016-48 | GEAR 46T |
| 23 | 1 | SPU057 | ENGAGE RAM - CUB |
| 24 | 2 | SPU059 | COLLAR - 40MM SHAFT |
| 25 | 1 | SPU081 | CYLINDER SPIGOT LOCATOR - RAM ENGAGE |
| 26 | 24 | SPU319 | WHEEL NUT (COMES WITH HUBS) |
| 27 | 4 | SPU320 | RIM AND TIRE ASSEMBLY - 11.5 - 80 - 15.3 |
| 28 | 2 | SPU322 | BOLT - SHARE - M8 X 50 - 4.4 |
| 29 | 1 | SPU323 | SLIDE BOLT PIN |
| 30 | 1 | SPU325 | LINK - CONNECTOR - DRIVE CHAIN |

SPINNER ASSEMBLY 4000 & 6000

Effective Date: 11/10/2013

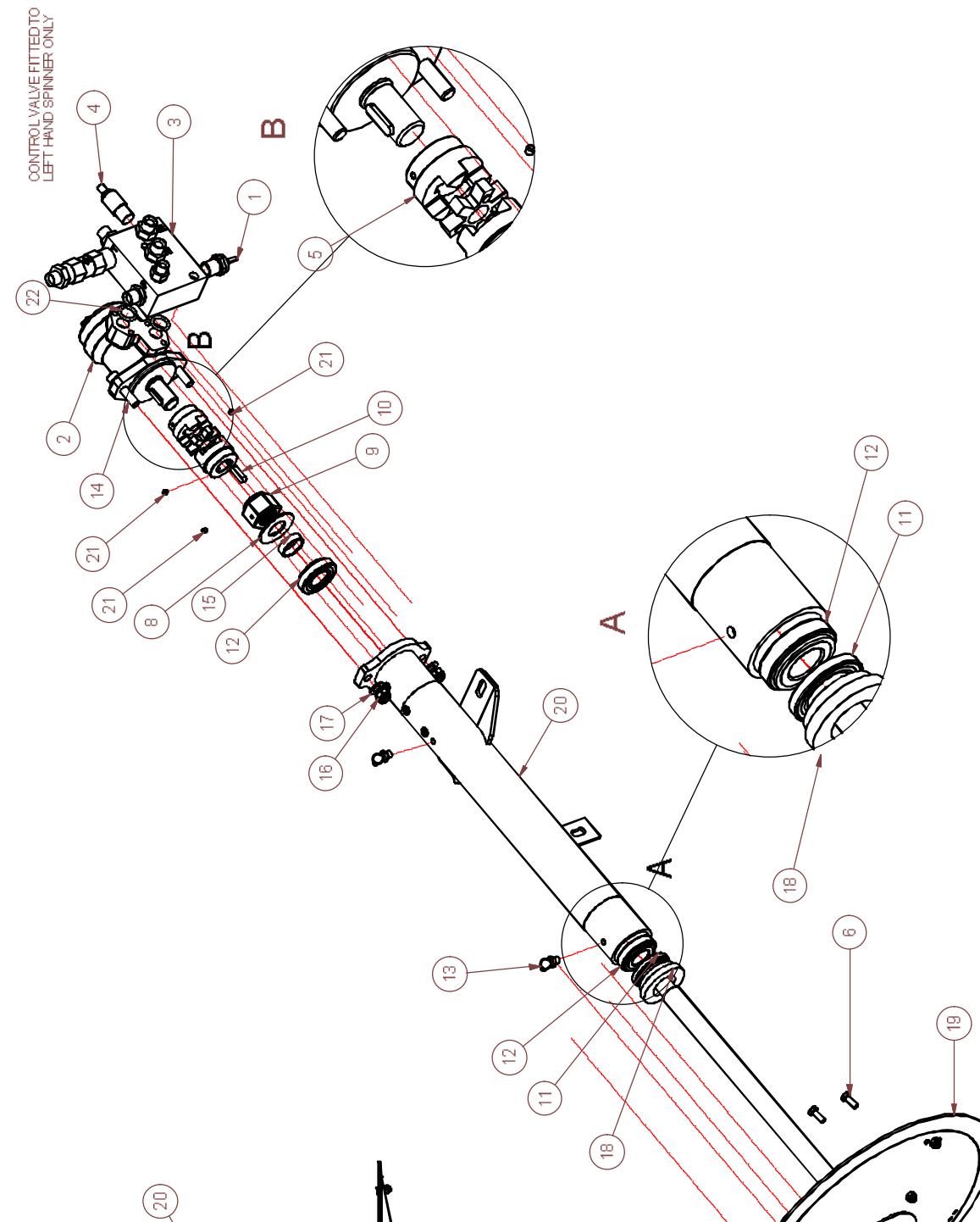
ASSEMBLY SP4310 / SP4311



MODELS EFFECTED:

ALL SPREADERS SN1309282 ONWARDS

INCLUDES MODELS:
S4000TA & S6000TA TORNADO



AgriQuip

Use Only Genuine AgriQuip Replacement Parts

**CUB
Tornado**

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ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|--------------------------------------|
| 1 | 1 | SP2119.01 | FLOW CONTROL VALVE |
| 2 | 1 | SPU003 | MOTOR - HYD |
| 3 | 1 | SPU004 | HYDRAULIC VALVE ASSY |
| 4 | 1 | SPU004RV | RELIEF VALVE |
| 5 | 1 | SPU005 | COUPLER INC 2 HALVES & ELEMENT |
| 6 | 8 | SPU05B | SET SCREW M8x20 S/S |
| 7 | 8 | SPU05N | NUT - NYLOCK - M8 S/S |
| 8 | 1 | SPU178 | WASHER - FLAT |
| 9 | 1 | SPU179 | NUT - NYLOCK - GRUB SCREW |
| 10 | 1 | SPU180 | KEY - 8 X 30 |
| 11 | 1 | SPU181 | OIL SEAL 62 X 40 X 8 |
| 12 | 2 | SPU182 | BEARING - TAPER ROLLER |
| 13 | 2 | SPU300 | GREASE NIPPLE - M10 X 90DEG S/S |
| 14 | 2 | SPU301 | SOCKET HEAD SET SCREW - M12 x 50 S/S |
| 15 | 1 | SPU302 | COLLAR - SPINNER |
| 16 | 2 | SPU303 | NUT - NYLOCK - M12 S/S |
| 17 | 4 | SPU304 | WASHER - FLAT - M12 S/S |
| 18 | 1 | SPU305 | THRUST BUSH - SPINNER |
| 19 | 1 | SPU306 | SPINNER SHAFT DISC ASSY |
| 20 | 1 | SPU307 | SPINNER TUBE - WELDED ASSY |
| 21 | 5 | SPU308 | GRUB SCREW M6 |
| 22 | 2 | SPU309 | O-RING - CONTROL BLOCK TO HYD MOTOR |

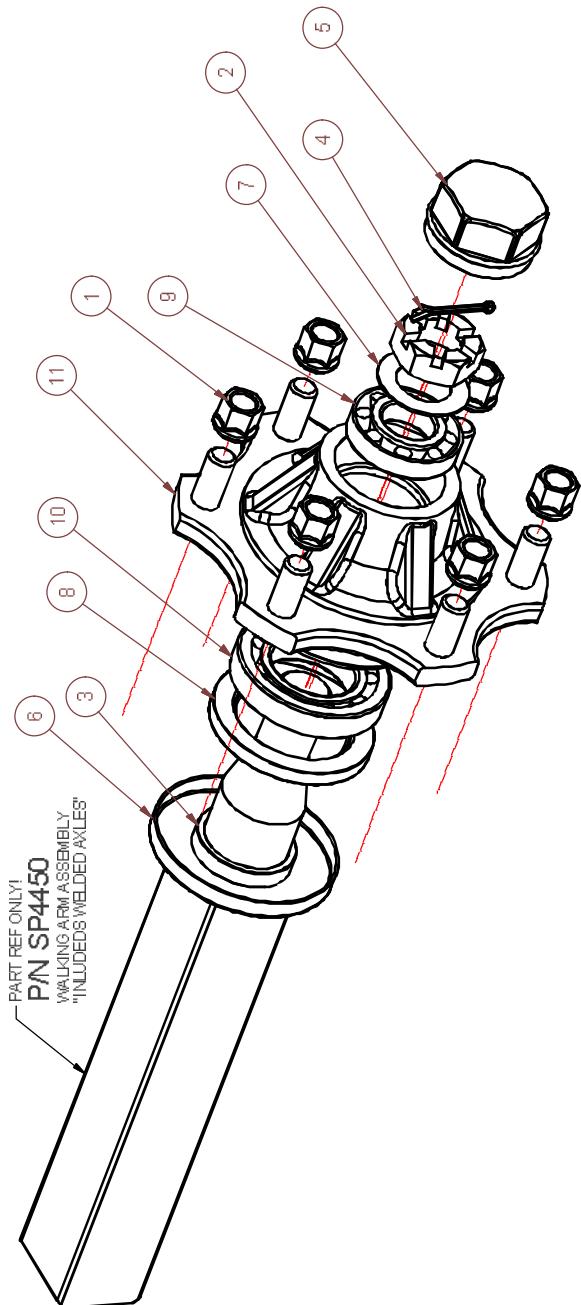
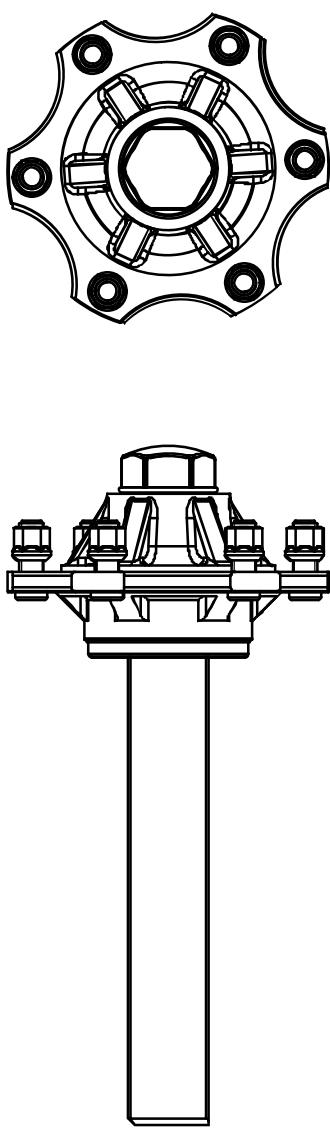
ASSEMBLY SP4519

HUB ASSEMBLY 4000 (60 X 60 AXLE)

Effective Date: 11/10/2013

MODELS EFFECTED: ALL S4000TA SPREADERS SIN 1309282 ONWARDS

INCLUDES MODELS: S4000TA TORNADO



ILLUSTRATED PARTS LIST

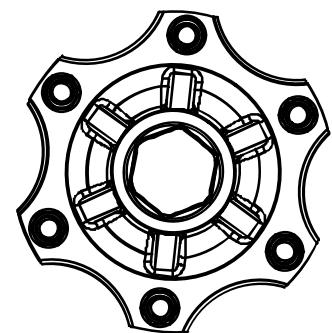
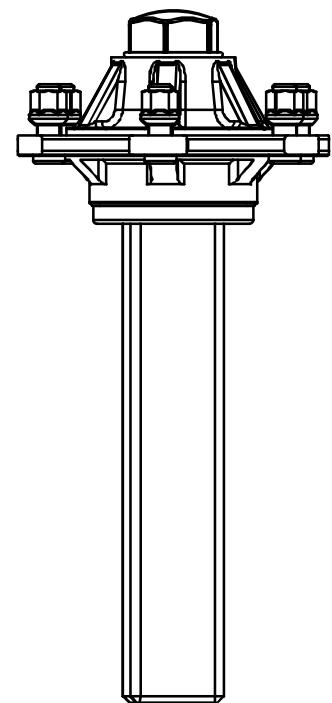
| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|-----------------------------|
| 1 | 6 | SPU319 | WHEEL NUT (COMES WITH HUBS) |
| 2 | 1 | SP6524 | NUT - CASTLE |
| 3 | 1 | SP4529 | SPACER - SEAL INNER |
| 4 | 1 | SP4528 | SPLIT PIN - 60mm AXLE |
| 5 | 1 | SP4527 | BEARING CAP |
| 6 | 1 | SP4526 | DUST CAP - REAR SEAL |
| 7 | 1 | SP4524 | WASHER - OUTER BEARING |
| 8 | 1 | SP4523 | SEAL - 72 X 105 X 10 |
| 9 | 1 | SP4522 | BEARING OUTER - 60mm AXLE |
| 10 | 1 | SP4521 | BEARING INNER - 60mm AXLE |
| 11 | 1 | SP4520 | HUB - (60mm X 60mm AXLE) |

ASSEMBLY SP6519

HUB ASSEMBLY 6000 (70mm X 70mm AXLE)

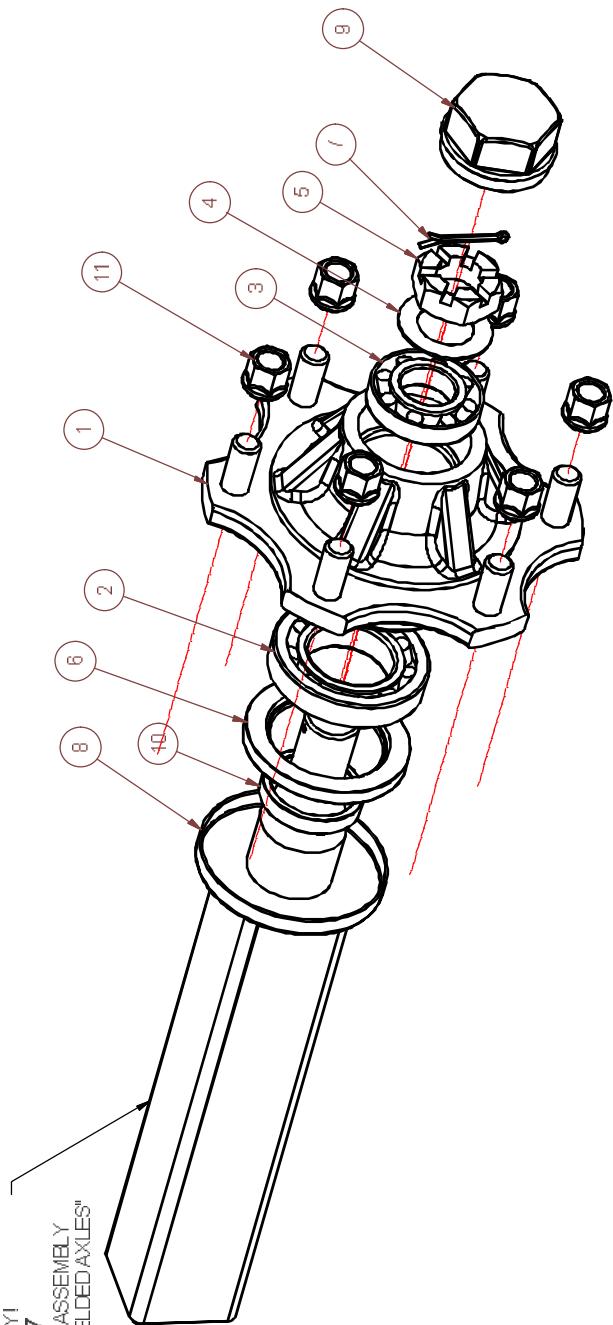
Effective Date: 11/10/2013

MODELS EFFECTED: ALL 6000T SPREADERS S/N 1309287 ONWARDS



INCLUDES MODELS: S6000TA TORNADO

PART REF ONLY!
PN SP6307
WALKING ARM ASSEMBLY
"INCLUDES WELDED AXLES"



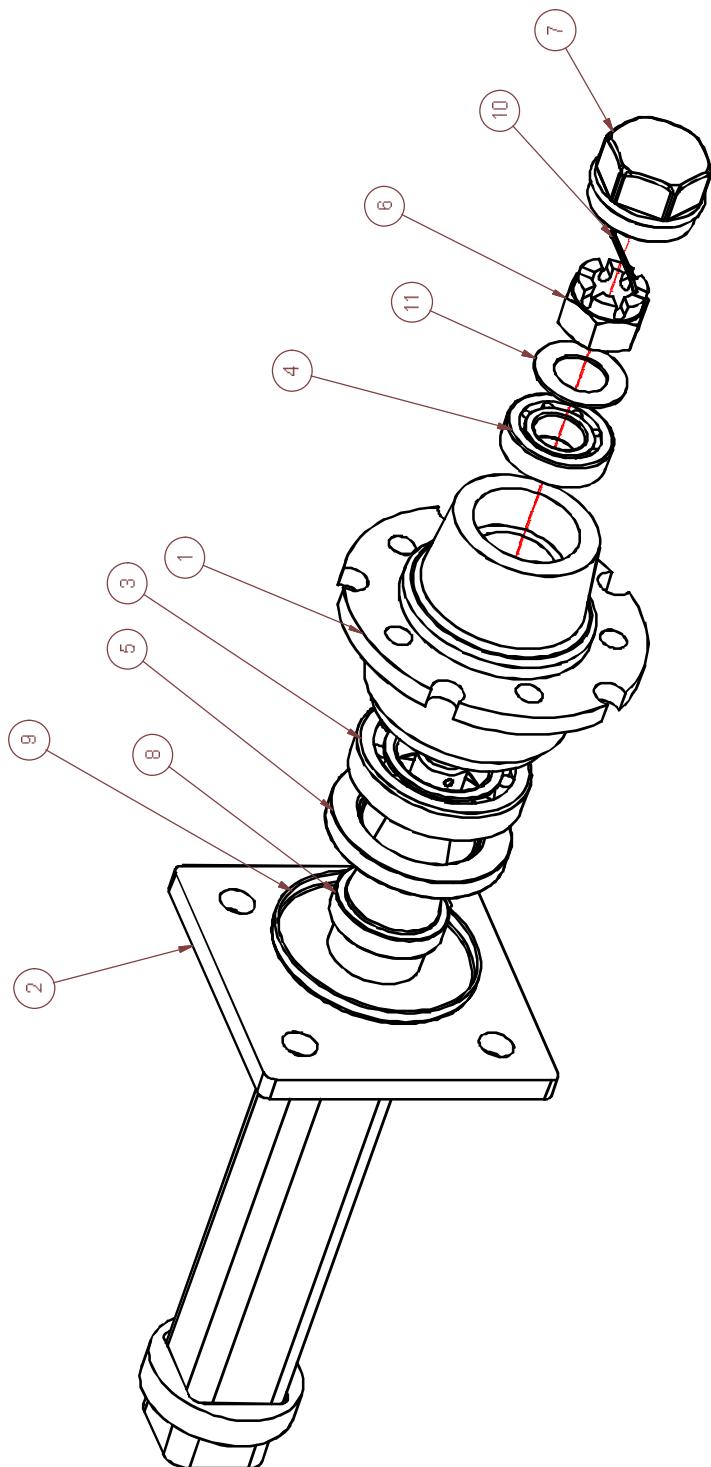
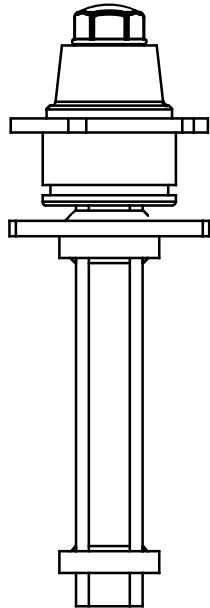
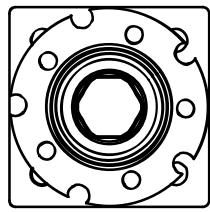
ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|-----------------------------|
| 1 | 1 | SP6520 | HUB - (70mm X 70mm AXLE) |
| 2 | 1 | SP6521 | BEARING INNER - 70mm AXLE |
| 3 | 1 | SP6522 | BEARING OUTER - 70mm AXLE |
| 4 | 1 | SP6523 | WASHER - OUTER BEARING |
| 5 | 1 | SP6524 | NUT - CASTLE |
| 6 | 1 | SP6525 | SEAL - 80 X 125 X 12 |
| 7 | 1 | SP6526 | SPLIT PIN - 70mm AXLE |
| 8 | 1 | SP6527 | DUST CAP - REAR SEAL |
| 9 | 1 | SP6528 | BEARING CAP |
| 10 | 1 | SP6529 | SPACER - SEAL INNER |
| 11 | 6 | SPU319 | WHEEL NUT (COMES WITH HUBS) |

IDLER HUB ASSEMBLY 4000 & 6000

Effective Date: 11/10/2013

MODELS EFFECTED: ALL SPREADERS SN1309282 ONWARDS
INCLUDES MODELS: S4000TA & S6000TA TORNADO



ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|----------------------------|
| 1 | 1 | SPU340 | HUB |
| 2 | 1 | SPU341 | STUB AXLE ASSEMBLY - IDLER |
| 3 | 1 | SPU343 | BEARING INNER - 30209 |
| 4 | 1 | SPU344 | BEARING OUTER - 30205 |
| 5 | 1 | SPU345 | SEAL - 55 X 88 X 10 |
| 6 | 1 | SPU346 | NUT - CASTLE |
| 7 | 1 | SPU347 | BEARING CAP |
| 8 | 1 | SPU348 | SPACER - SEAL INNER |
| 9 | 1 | SPU349 | DUST CAP - REAR SEAL |
| 10 | 1 | SPU350 | SPLIT PIN |
| 11 | 1 | SPU351 | WASHER - OUTER BEARING |

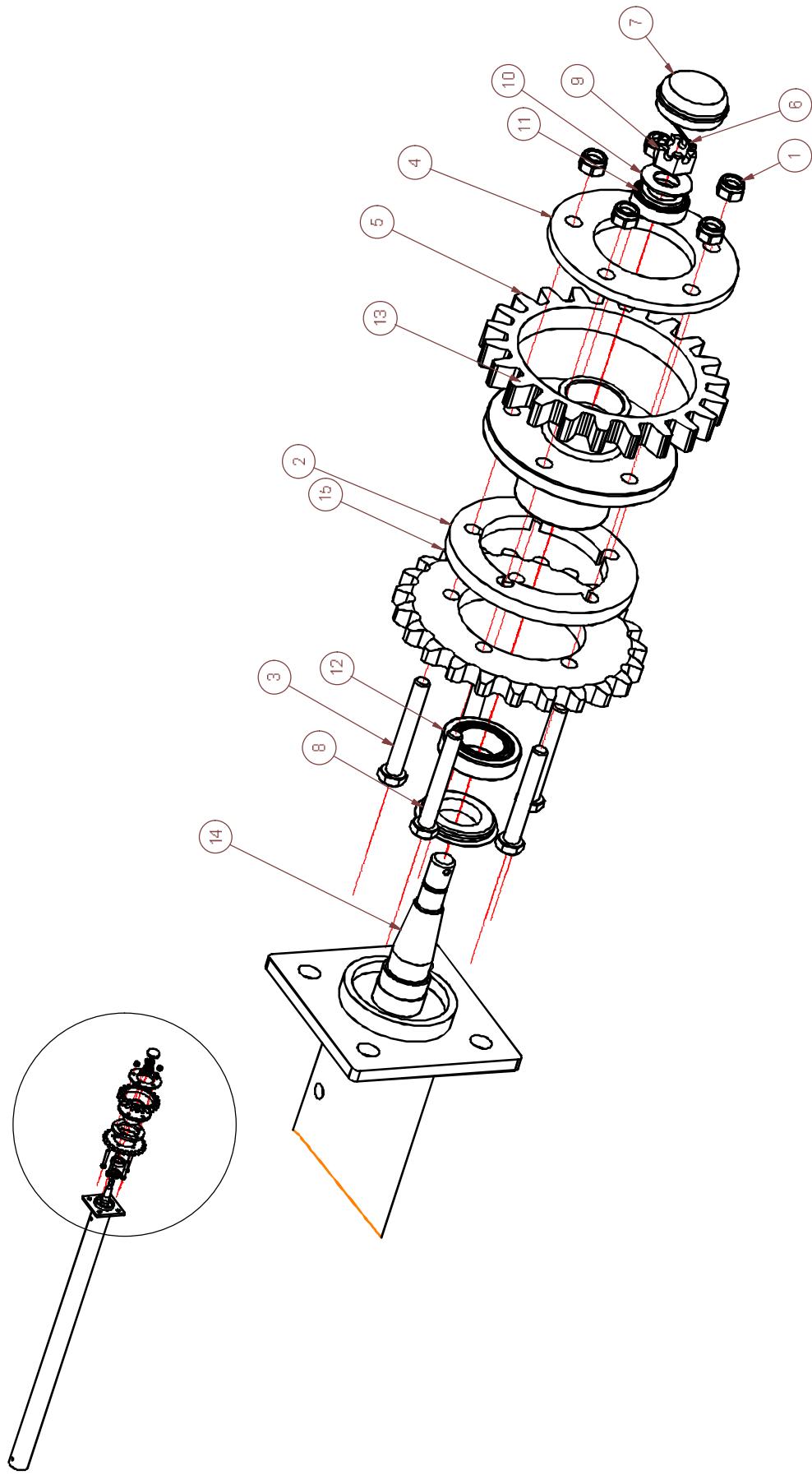
IDLER ASSY - S4000TA S/N 1210276 to 1210281 ONLY

Effective Date: 11/10/2013

ASSEMBLY IDLER ASSEMBLY

MODELS EFFECTED: S4000TA SPREADERS S/N 1210276 to 1210281

INCLUDES MODELS: **S4000TA TORNADO**

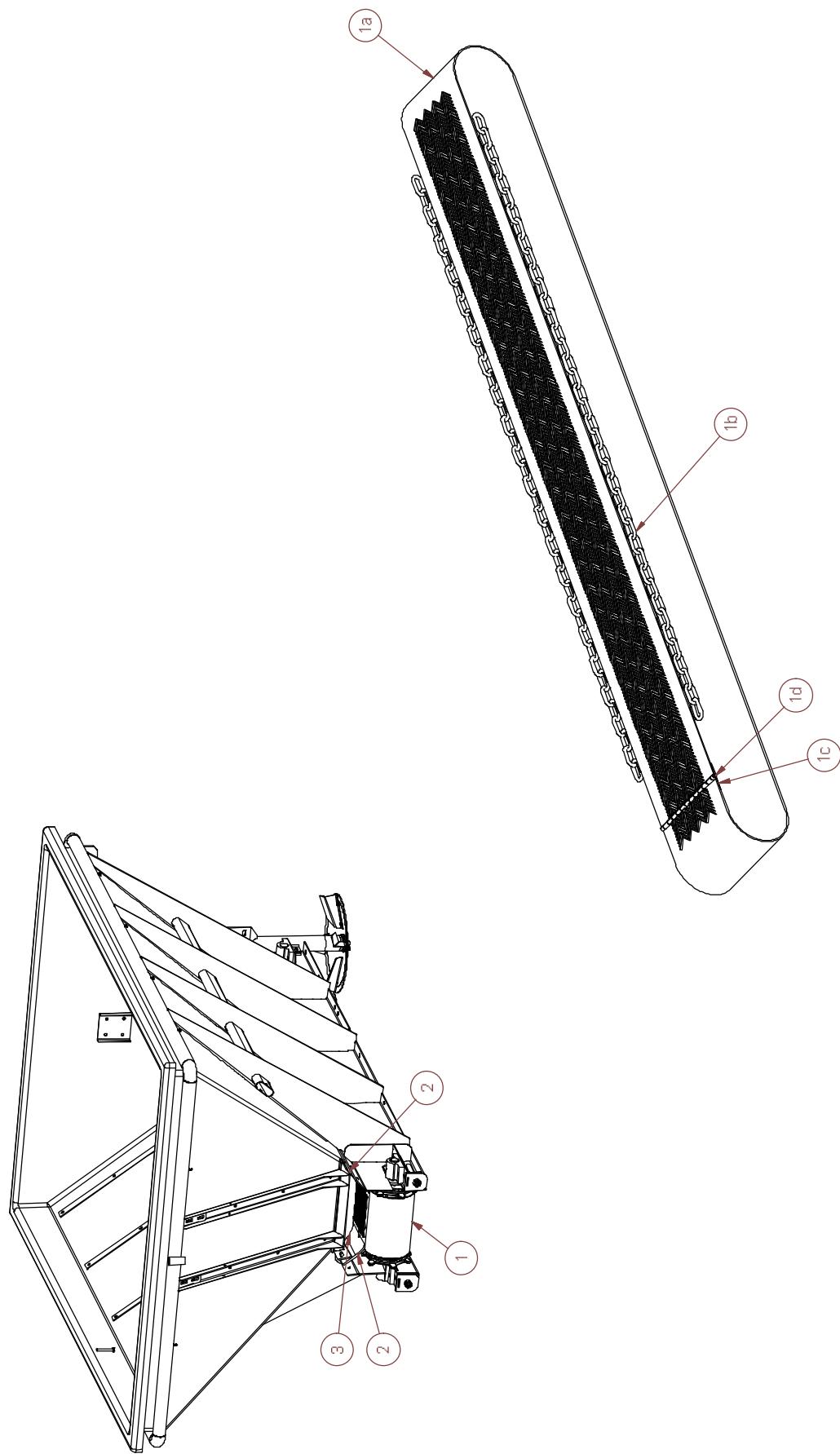


ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|--|
| 1 | 5 | SPU316 | NUT - NYLOCK -M12 GALV |
| 2 | 1 | SP6407 | SPACER - 26T SPROCKET |
| 3 | 5 | SP4542 | BOLT - HEX - M12X.75 GALV |
| 4 | 1 | SP4541 | CLAMP RING - IDLER GEAR |
| 5 | 1 | SP4540 | GEAR 22T - IDLER |
| 6 | 1 | SP4539 | SPLIT PIN |
| 7 | 1 | SP4538 | GREASE CAP |
| 8 | 1 | SP4537 | REAR DUST SEAL |
| 9 | 1 | SP4536 | NUT - CASTLE |
| 10 | 1 | SP4535 | WASHER - OUTER BEARING |
| 11 | 1 | SP4533 | BEARING OUTER - S/N 1210276 to 1210281 |
| 12 | 1 | SP4532 | BEARING INNER - S/N 1210276 to 1210281 |
| 13 | 1 | SP4531 | HUB - S/N 1210276 to 1210281 |
| 14 | 1 | SP4530 | AXLE ASSEMBLY - S/N 1210276 to 1210281 |
| 15 | 1 | SP4481 | SPROCKET 23T- DRIVE HUB |

MODELS EFFECTED: ALL S4000TA SPREADERS SIN 1309282 ONWARDS

INCLUDES MODELS: **S4000TA TORNADO**



ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|-------------------|
| 1 | 1 | SP4074 | BELT & CHAIN ASSY |
| 2 | 2 | SP4082 | SKIRT - SIDE - 4T |
| 3 | 1 | SP4029 | SKIRT - FRONT 4T |

ILLUSTRATED PARTS LIST

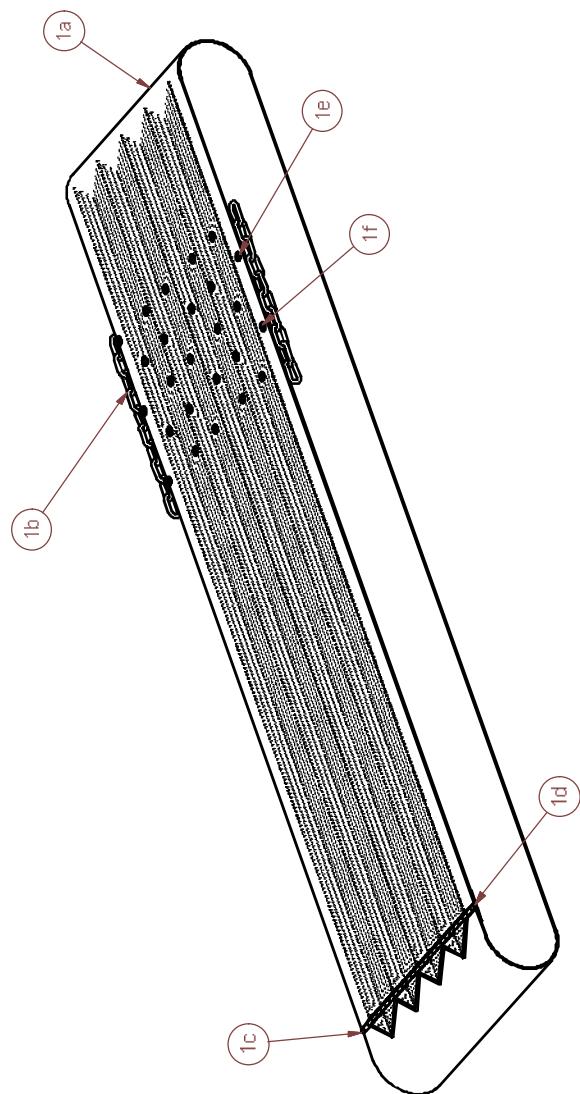
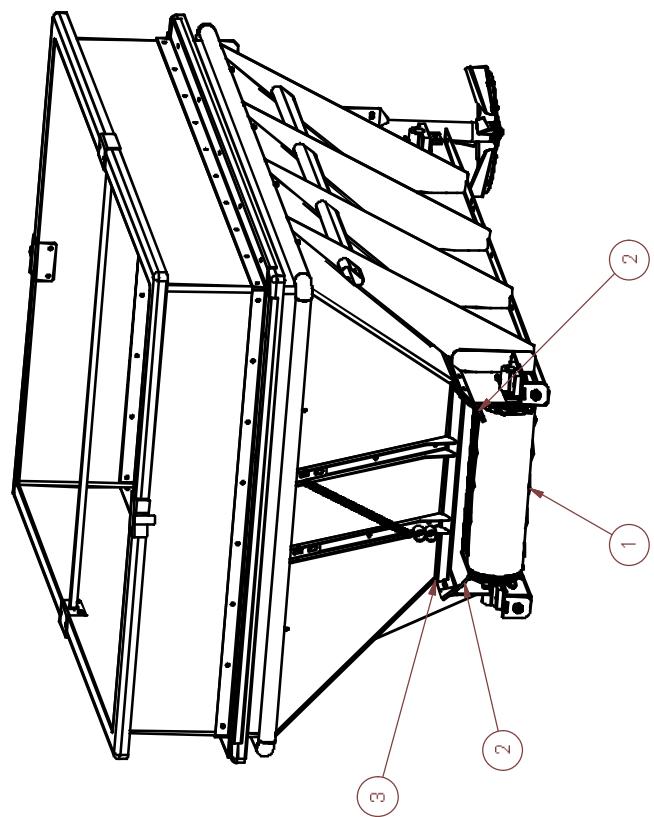
| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|----------|--------------------------|
| 1a | 1 | SP4055 | MATT - CHEVRON - 4T |
| 1b | 1 | SP4101 | CHAIN SLAT ASSY ONLY |
| 1c | 1 | SP4055J | JOINER - HINGE - BELT |
| 1d | 1 | SP4055JR | JOINER - ROD - BELTHINGE |

SEALS AND BELT ASSEMBLY 6000

Effective Date: 11/10/2013

MODELS EFFECTED: ALL 6000T SPREADERS S/N 1309287 ONWARDS

INCLUDES MODELS: **S6000TA TORNADO**



ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|-----------------------------|
| 1 | 1 | SP6303 | FLOOR MAT & CHAIN ASSY - 6T |
| 2 | 2 | SP6390 | SKIRT - SIDE - 6T |
| 3 | 1 | SP6380 | SKIRT - FRONT 6T |

ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|-------------------------------------|
| 1a | 1 | SP6304 | FEED MAT - 650MM - 6T |
| 1b | 1 | SP6326 | CHAIN FEED BAR ASSY - 6T |
| 1c | 1 | SP6423 | JOINER - HINGE 6T - BELT |
| 1d | 1 | SP6424 | JOINER - ROD - 6T BELT HINGE |
| 1e | A/R | SPU055W | WASHER - STAINLESS - BELT |
| 1f | A/R | SPU055R | RIVET - CHAIN ASSEMBLY TO FEED BELT |

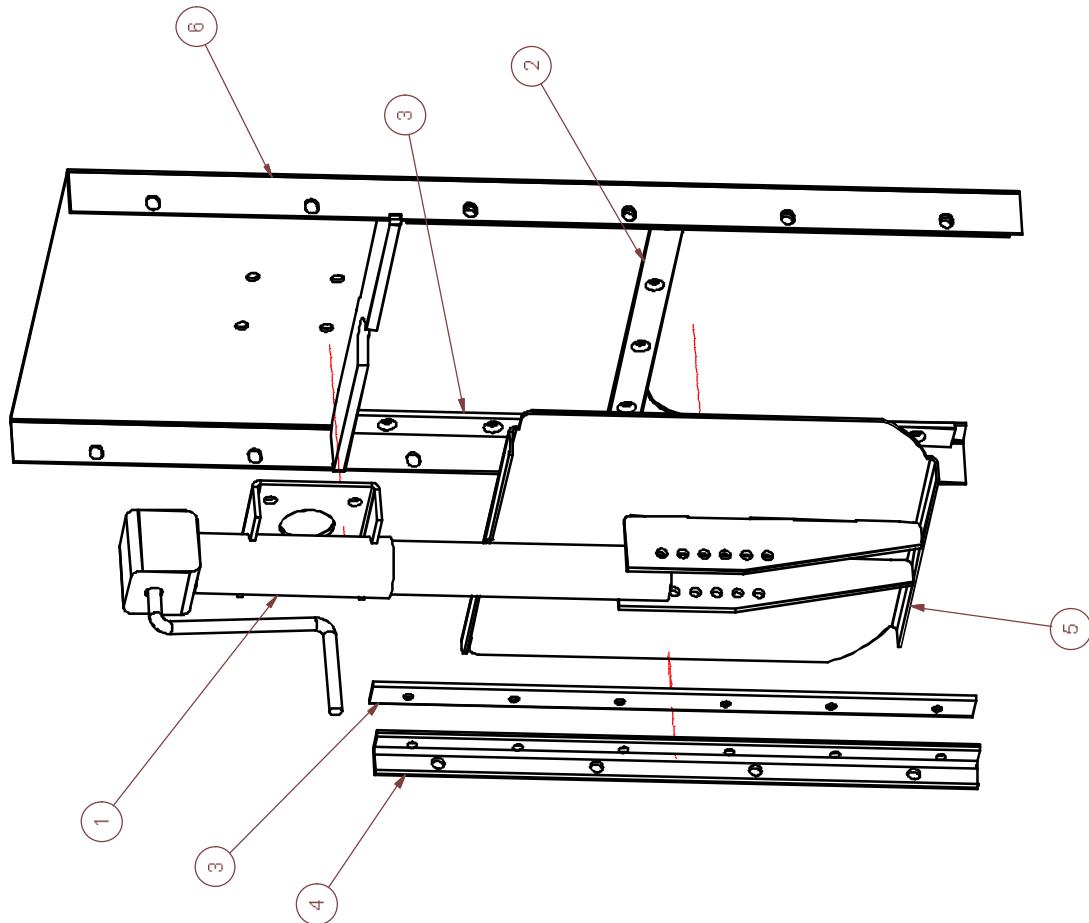
REAR DOOR 4000

ASSEMBLY SP4400

Effective Date: 11/10/2013

MODELS EFFECTED: ALL S4000TA SPREADERS SIN 1309282 ONWARDS

INCLUDES MODELS: **S4000TA TORNADO**



ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|---------|---|
| 1 | 1 | SP6321 | REAR DOOR JACK ASSEMBLY |
| 2 | 1 | SP4411 | DOOR RUNNER - HORIZONTAL |
| 3 | 4 | SP4410 | DOOR RUNNERS - VERTICAL |
| 4 | 2 | SP4408 | ANGLE - SIDE RUNNER |
| 5 | 1 | SP4402 | REAR DOOR - SLIDING - WELDED ASSEMBLY |
| 6 | 1 | SP4401 | REAR DOOR - FIXED PLATE - WELDED ASSEMBLY |

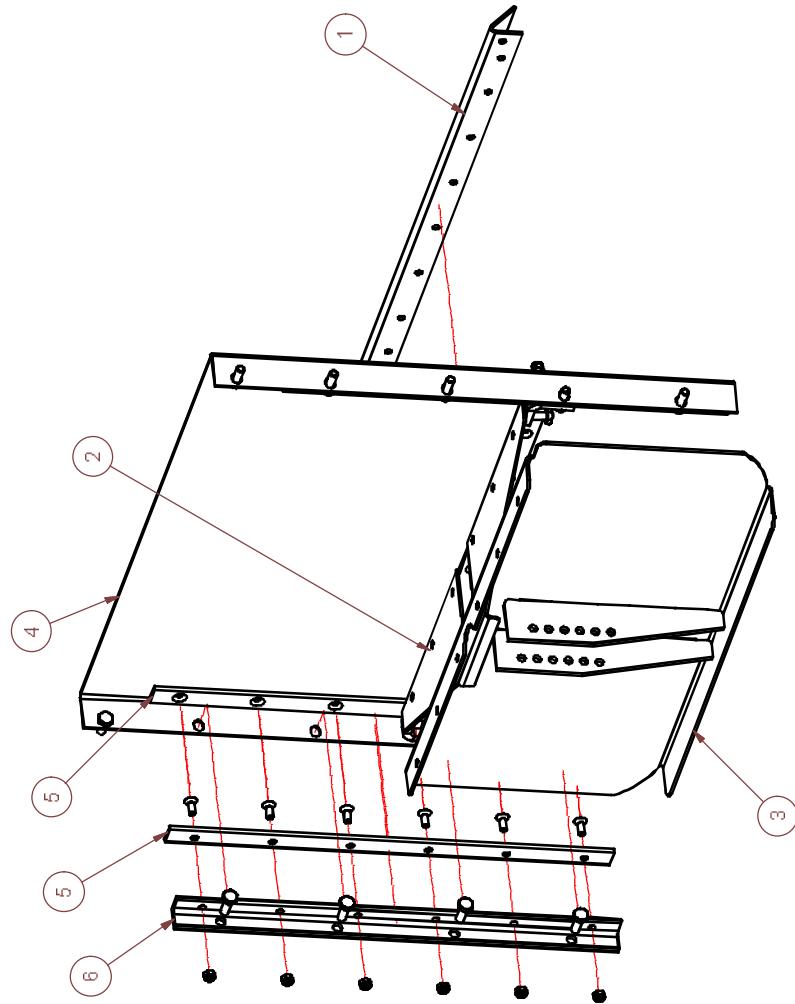
REAR DOOR 6000

ASSEMBLY SP6317

Effective Date: 11/10/2013

MODELS EFFECTED: ALL S6000TA SPREADERS SIN 1309287 ONWARDS

INCLUDES MODELS: **S6000TA TORNADO**

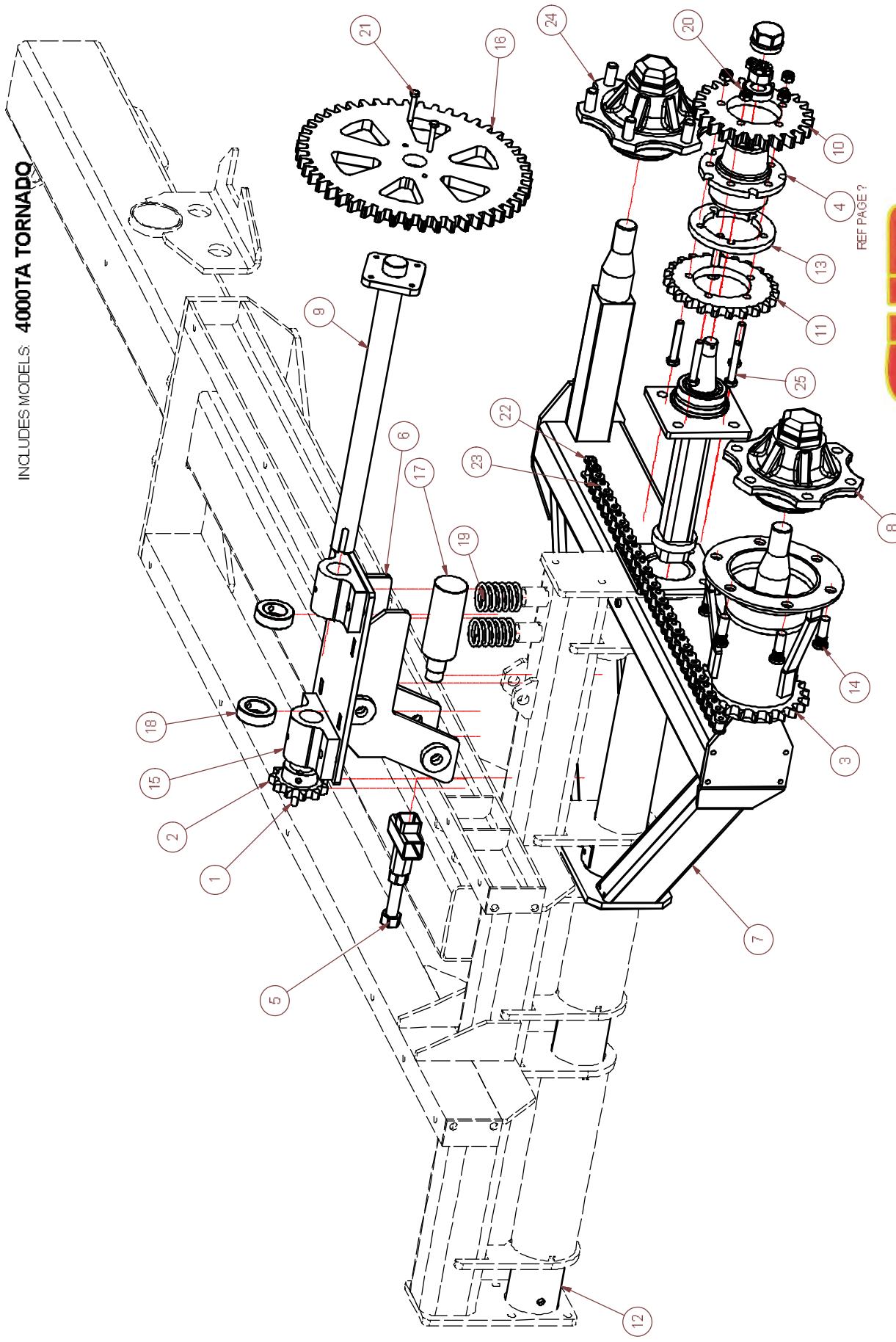


ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|---|
| 1 | 1 | SP6349 | DOUBLER - INTERNAL BIN REAR |
| 2 | 1 | SP6346 | HORIZONTAL DOOR SLIDE - REAR DOOR |
| 3 | 1 | SP6324.R2 | REAR DOOR - SLIDING - WELDED ASSEMBLY |
| 4 | 1 | SP6318 | REAR DOOR - FIXED PLATE - WELDED ASSEMBLY |
| 5 | 4 | SP4410 | DOOR RUNNERS - VERTICAL |
| 6 | 2 | SP4408 | ANGLE - SIDE RUNNER |

MODELS EFFECTED: ALL S4000TA SPREADERS

INCLUDES MODELS: 4000TA TORNADO

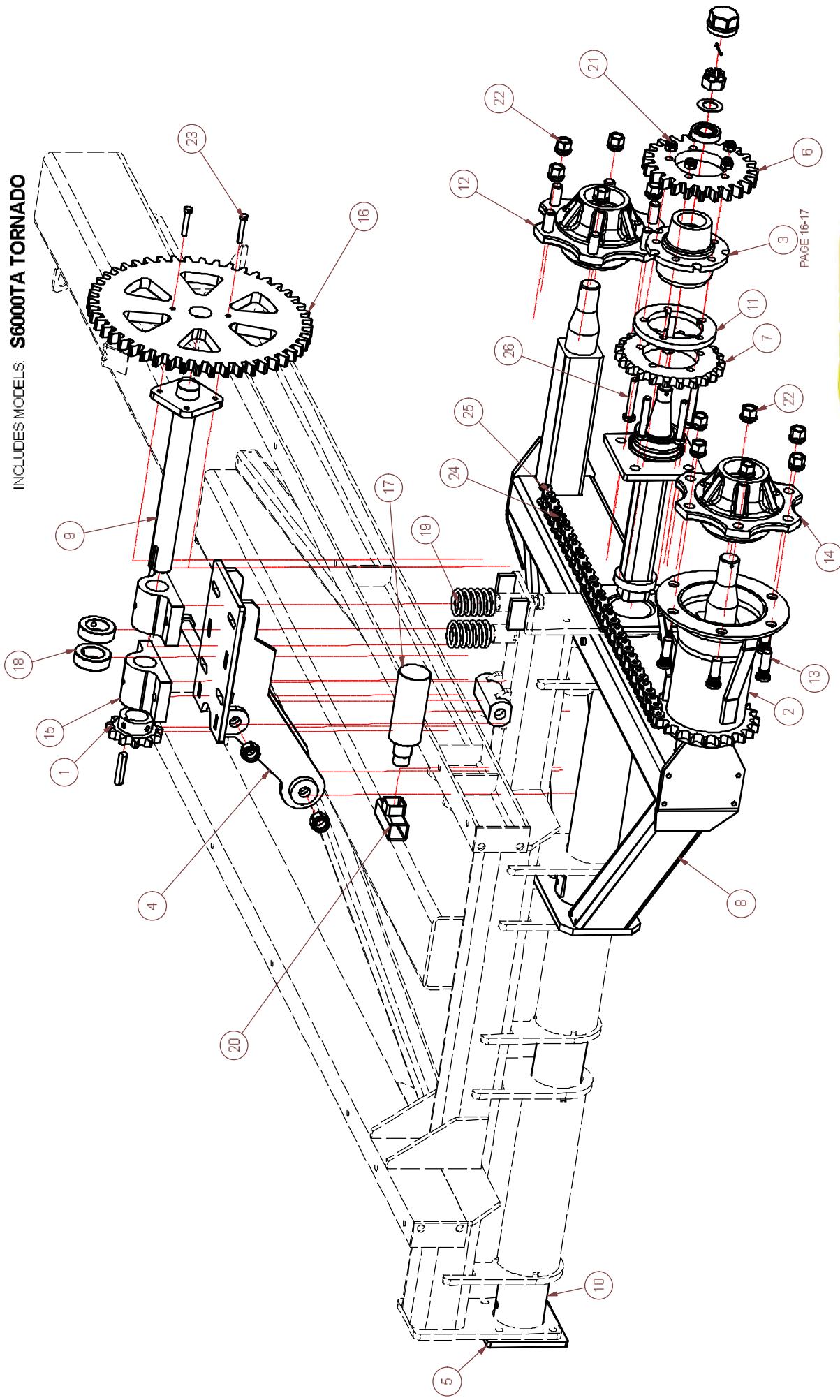


ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|---|
| 1 | 1 | SP4072 | KEY - 10 X 10 X 65 |
| 2 | 1 | SP4085B | 11 TOOTH SPROCKET (1" CHAIN) |
| 3 | 1 | SP4308 | WHEEL DRIVE SPROCKET ASSY |
| 4 | 1 | SP4309 | STUB AXLE ASSEMBLY - IDLER |
| 5 | 1 | SP4346 | RAM TEE - ENGAGE STOP |
| 6 | 1 | SP4440 | Pivot Assembly - BELT ENGAGE |
| 7 | 2 | SP4450 | WALKING ARM - WELDED ASSEMBLY |
| 8 | 1 | SP4466 | HUB - 60mm - MACHINED |
| 9 | 1 | SP4477 | TRANSFER SHAFT ASSY - ROCKER PLATE - 4T |
| 10 | 1 | SP4480 | GEAR 24T - IDLER |
| 11 | 1 | SP4481 | SPROCKET 23T- DRIVE HUB |
| 12 | 1 | SP6385 | MAIN AXLE - WALKING ARM |
| 13 | 1 | SP6407 | SPACER - 26T SPROCKET |
| 14 | 6 | SP6530 | WHEEL STUDS - 55MM (STD) |
| 15 | 2 | SPU012 | BEARING - DEAD EYE (75mm) |
| 16 | 1 | SPU016-48 | GEAR 46T |
| 17 | 1 | SPU057 | ENGAGE RAM - CUB |
| 18 | 2 | SPU059 | COLLAR - 40MM SHAFT |
| 19 | 2 | SPU062 | SPRING - ROCKER PLATE RETURN |
| 20 | 5 | SPU316 | NUT - NYLOCK -M12 GALV |
| 21 | 2 | SPU322 | BOLT - SHARE - M8 X 50 - 4.4 |
| 22 | 1 | SPU325 | LINK- CONNECTOR - DRIVE CHAIN |
| 23 | 1 | SPU326 | CHAIN - SPROCKET DRIVE - 62 LINK |
| 24 | 3 | SPU331 | HUB - 60mm |
| 25 | 5 | SPU352 | BOLT - HEX - M12 X 75 GALV |

MODELS EFFECTED: ALL 6000 SPREADERS S/N 1309287 ONWARDS

INCLUDES MODELS: **S6000TA TORNADO**



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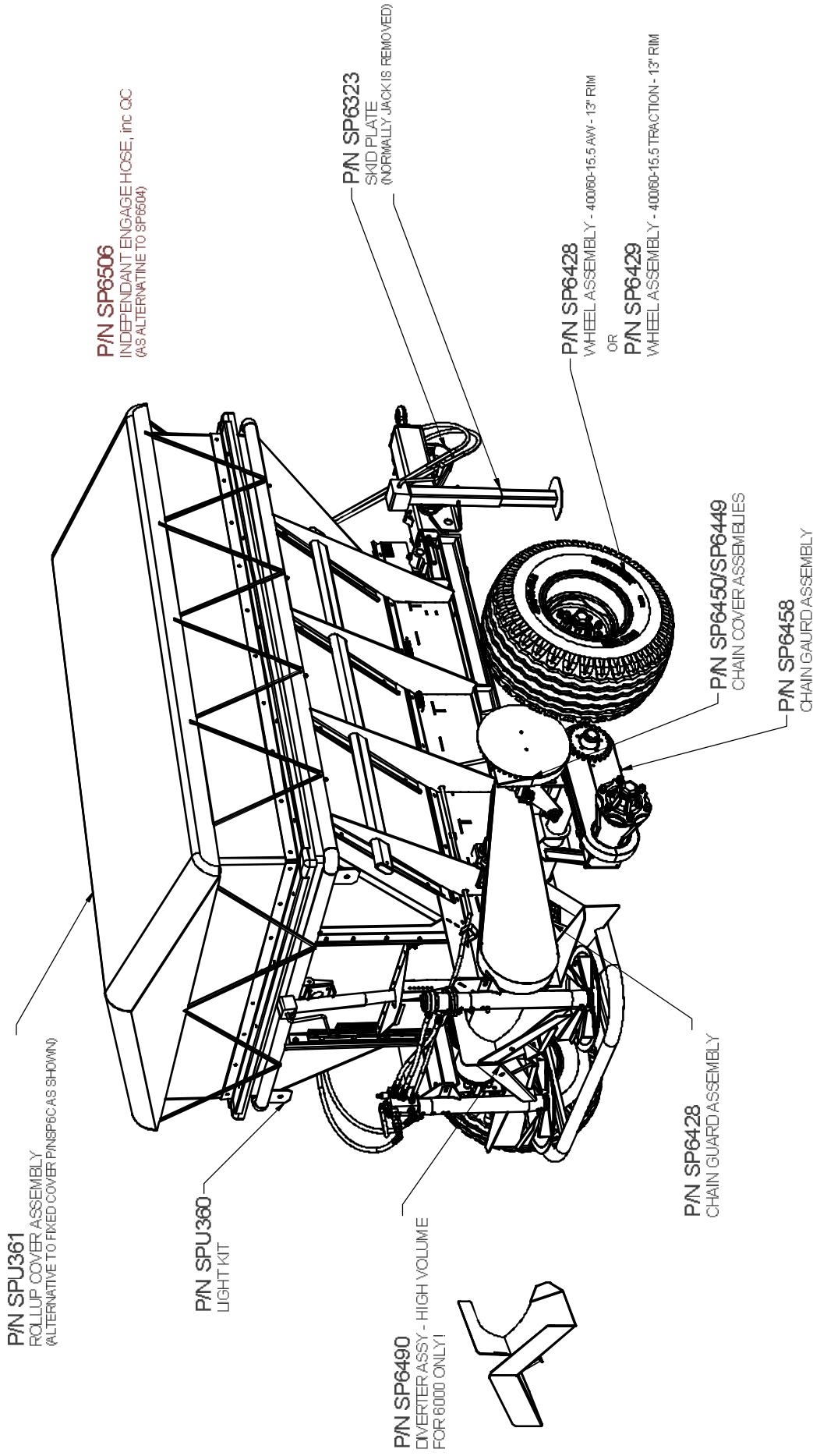
**CUB
Tornado**

AgriQuip

ILLUSTRATED PARTS LIST

| ITEM No | No Req'd | PART No | DESCRIPTION |
|---------|----------|-----------|--------------------------------------|
| 1 | 1 | SP4085B | 11 TOOTH SPROCKET (1" CHAIN) |
| 2 | 1 | SP4308 | WHEEL DRIVE SPROCKET ASSY |
| 3 | 1 | SP4309 | STUB AXLE ASSEMBLY - IDLER |
| 4 | 1 | SP4440 | PVOT ASSEMBLY - BELT ENGAGE |
| 5 | 1 | SP4445 | RETAINER FLANGE - AXLE |
| 6 | 1 | SP4480 | GEAR 24T - IDLER |
| 7 | 1 | SP4481 | SPROCKET 23T- DRIVE HUB |
| 8 | 2 | SP6307 | WALKING ARM - WELDED ASSEMBLY |
| 9 | 1 | SP6360 | TRANSFER SHAFT - ROCKER PLATE |
| 10 | 1 | SP6385 | MAIN AXLE - WALKING ARM |
| 11 | 1 | SP6407 | SPACER - 26T SPROCKET |
| 12 | 1 | SP6520 | HUB - (70mm X 70mm AXLE) |
| 13 | 6 | SP6530 | WHEEL STUDS - 55MM (STD) |
| 14 | 1 | SP6533 | HUB - (70mm X 70mm AXLE) |
| 15 | 2 | SPU012 | BEARING - DEAD EYE (75mm) |
| 16 | 1 | SPU016-48 | GEAR 46T |
| 17 | 1 | SPU057 | ENGAGE RAM - CUB |
| 18 | 3 | SPU059 | COLLAR - 40MM SHAFT |
| 19 | 2 | SPU062 | SPRING - ROCKER PLATE RETURN |
| 20 | 1 | SPU081 | CYLINDER SPIGOT LOCATOR - RAM ENGAGE |
| 21 | 5 | SPU316 | NUT - NYLOCK -M12 GALV |
| 22 | 12 | SPU319 | WHEEL NUT (COMES WITH HUBS) |
| 23 | 2 | SPU322 | BOLT - SHARE - M8 X 50 - 4.4 |
| 24 | 1 | SPU325 | LINK - CONNECTOR - DRIVE CHAIN |
| 25 | 1 | SPU326 | CHAIN - SPROCKET DRIVE - 62 LINK |
| 26 | 5 | SPU352 | BOLT - HEX - M12 X 75 GALV |

MODELS EFFECTED: ALL SPREADERS SN1309287 ONWARDS

INCLUDES MODELS: **S4000TA & S6000TA TORNADO**

TORNADO CUB SPREADERS



NOTES: _____

TORNADO CUB SPREADERS



NOTES: _____

