



**2012 525 - 40 ft AIR DRILL
Assembly And Parts Manual**

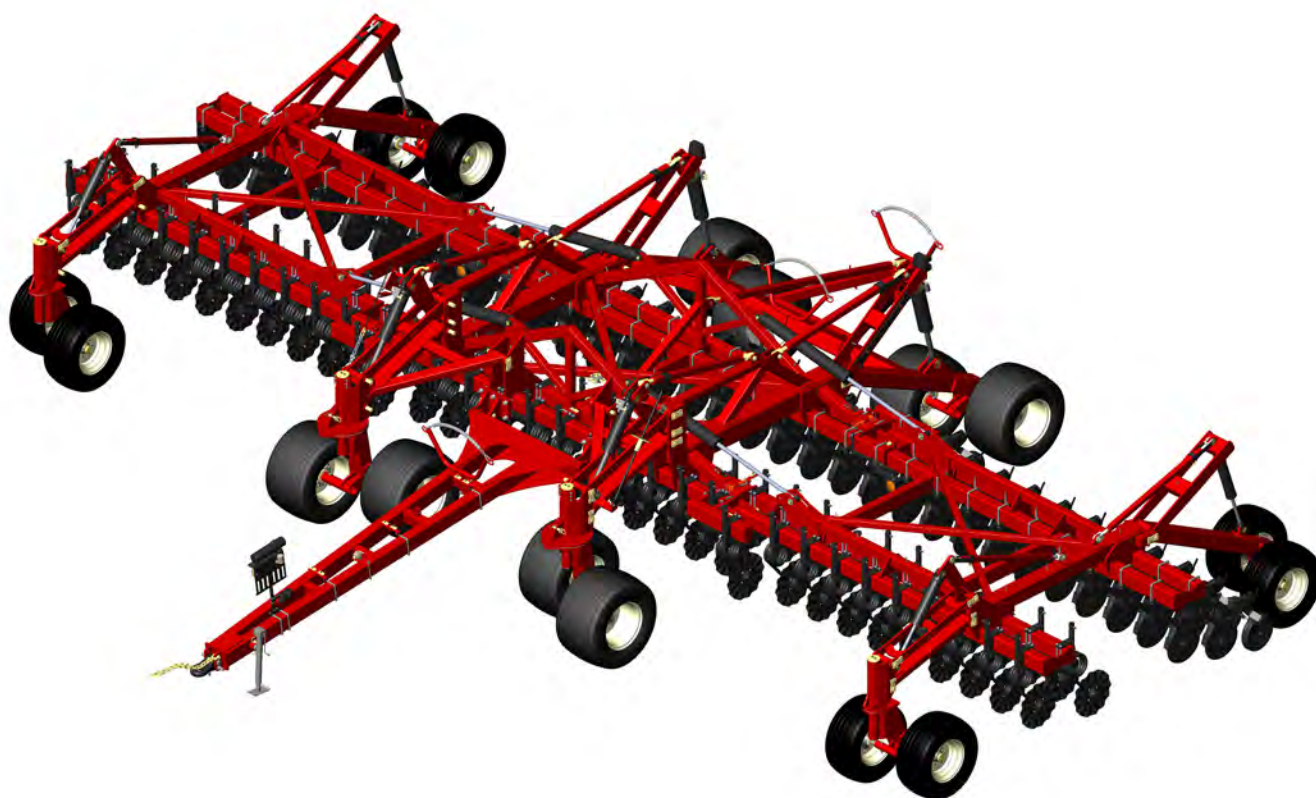


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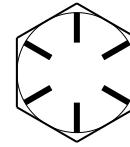
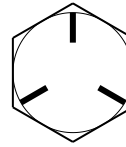
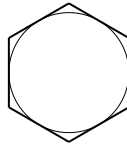
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Salford Recommended Torque Values



BOLT SIZE	GRADE 2		GRADE 5		GRADE 8	
	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
1/2"NC	50	68	75	102	105	142
5/8"NC	90	122	150	203	210	285
3/4"NC	160	217	270	366	375	508
7/8"NC	145	197	395	536	610	827
1"NC	210	285	590	800	910	1234

NOTES: These recommended torque values are applicable when applied to the nut only. These recommended torque values are approximate only. The torque-tension relationship is affected by lubrication, surface finish, thread fit, plating, lock-washers, etc.

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

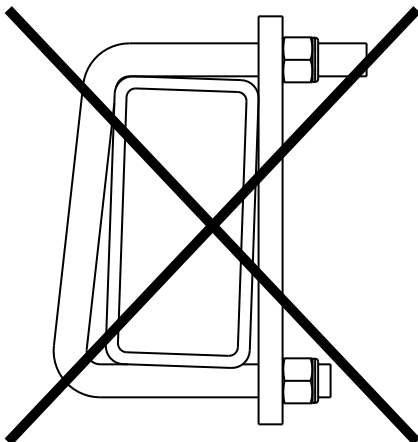
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher-grade fasteners are used, these should only be tightened to the strength of the original.

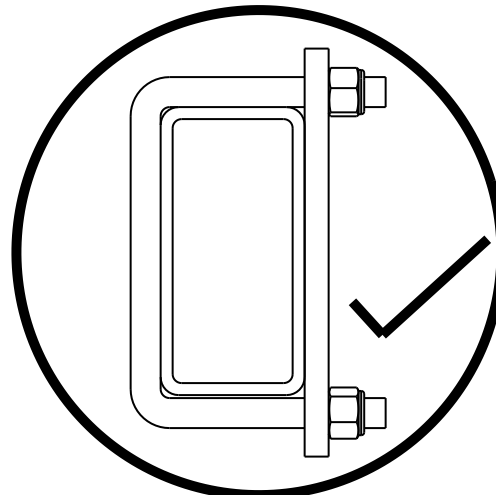
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

WARNING

Do not tighten one side of the u-bolt before the other side.



Both sides of the u-bolt must be tightened equally.



Wheel Torque Specifications



WARNING Maintain proper torque to provide safe and secure attachment of the wheel hub/drum. Improperly tightened wheel nuts can cause the wheel to separate from the wheel mounting surface during operation. This could result in property damage, serious personal injury, or possibly loss of life.

NOTE - If wheel does not have chamfers to match profile of the nuts, use flat side of nuts against rim face.

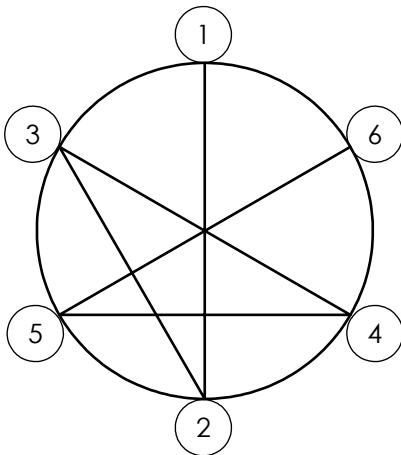
Install all lug nuts/bolts by hand to prevent cross threading and tighten lug nuts/bolts following the steps and tightening sequence diagram below.

- STEP 1) Torque to 20-25 ft•lbs following the appropriate pattern below.
 STEP 2) Torque to 55-60 ft•lbs following the appropriate pattern below.
 STEP 3) Torque to final ft•lbs rating (see bolt size below) following the appropriate pattern below.

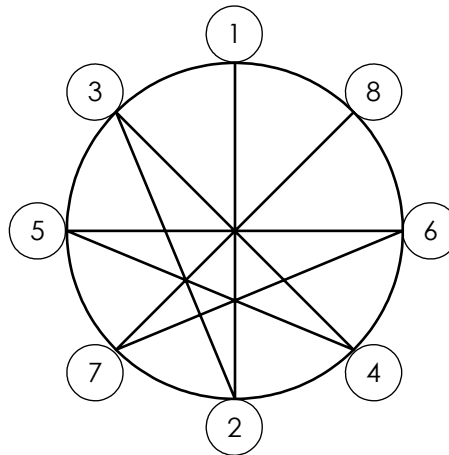
Bolt Size (Hub Size)	Final Torque
1/2" dia. bolt (up to 3000 lb hubs)	85 ft•lbs
9/16" dia. bolt (4000 - 5000 lb hubs)	120 ft•lbs
5/8" dia. bolt (5500 - 12000 lb hubs)	170 ft•lbs
3/4" dia. bolt (16000 - 20000 lb hubs)	300 ft•lbs
7/8" dia. bolt (25000 lb hubs)	450-500 ft•lbs

Lug Nut/Bolt Tightening Sequence

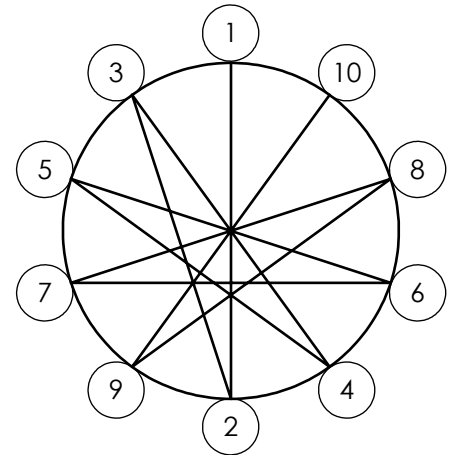
6 LUG BOLT PATTERN



8 LUG BOLT PATTERN



10 LUG BOLT PATTERN



NOTE - Recheck the torque settings of lug nuts/bolts after 10km (6 miles) and again after 50km (30 miles). Periodically and at the beginning of each season check the condition and the torque of the lug nuts/bolts.

Tire Pressure Ratings

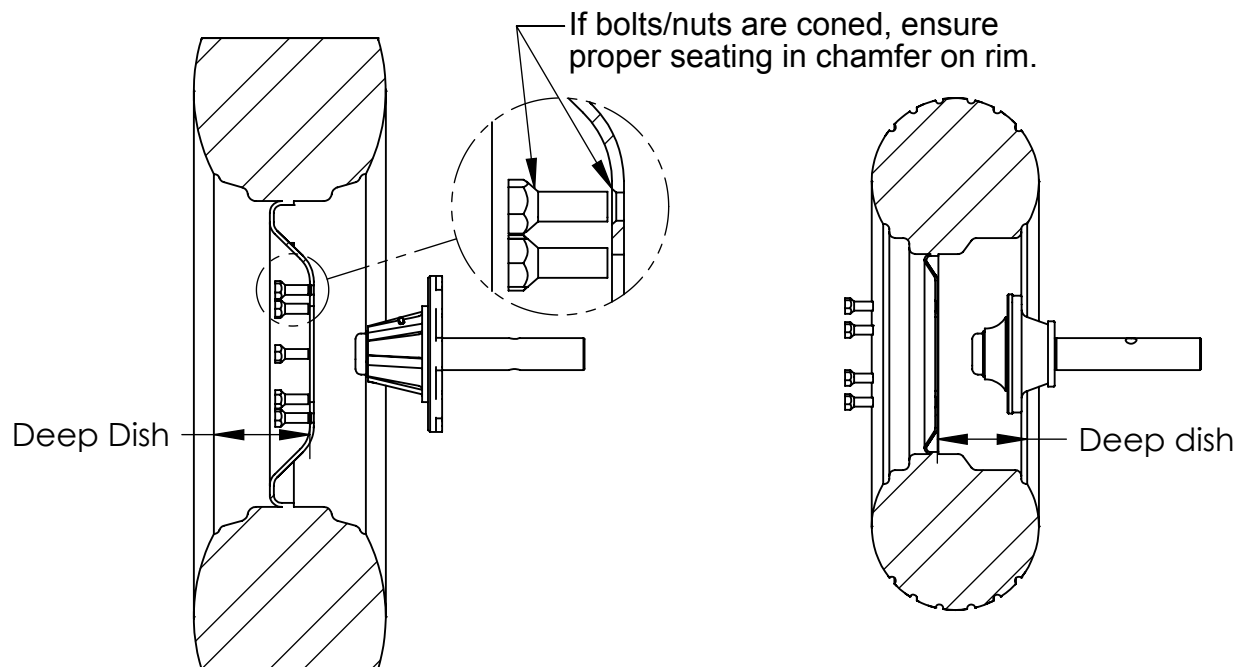
Ensure proper inflation of each tire for safe operation and extended tire life.

Pressure [psi]	Pressure [bar]	Tire Size
25 [psi]	1.72 [bar]	23.1 x 26 (16 ply)
30 [psi]	2.07 [bar]	15 x 19.5 Lug Tire (6 ply)
35 [psi]	2.41 [bar]	Load Range C - 11L15
36 [psi]	2.48 [bar]	28L26 (16 ply)
52 [psi]	3.58 [bar]	30.5LR32 (181A8/B)
65 [psi]	4.48 [bar]	Load Range D - 11L15 - 12.5L15
70 [psi]	4.83 [bar]	15 x 19.5 Lug Tire (14 ply)
90 [psi]	6.20 [bar]	Load Range F - 11L15 - 12.5L15 Truck Tires - 245/70R19-5 - 305/70R22-5 - 425/60R22-5

NOTE - Periodically and at the beginning of each season check the condition and the pressure of each tire.

Tire Installation Direction

Measure both sides of tire in to rim face. Install the deep side in or out according to the instructions below.



Tires to install
deep dish out:

12.5L
305
15 x 19.5

Tires to install
deep dish in:

11L
245
425

Do not rely on valve stem for orientation of tires. It may face in or out on different rims.

General Safety Precautions

Signal Words

The words **DANGER**, **WARNING** or **CAUTION** are used with the safety alert symbol. Learn to recognize the safety alerts, and follow the recommended precautions and safe practices.

Three words are used in conjunction with the safety-alert symbol:



DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause **DEATH OR VERY SERIOUS INJURY**.



WARNING

Indicates a potentially hazardous situation that, if not avoided, could cause **DEATH OR SERIOUS INJURY**.



CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in **MINOR or MODERATE INJURY**.

Replace any **DANGER**, **WARNING**, **CAUTION** or instructional decal that is not readable or is missing. The location and part number of these decals is identified later in this section of the manual.

The words **Important** and **Note** are not related to personal safety but are used to give additional information and tips for operating or servicing this equipment.

IMPORTANT: Identifies special instructions or procedures which, if not strictly observed could result in damage to, or destruction of the machine, process or its surroundings.

NOTE: Indicates points of particular interest for more efficient and convenient repair or operation.

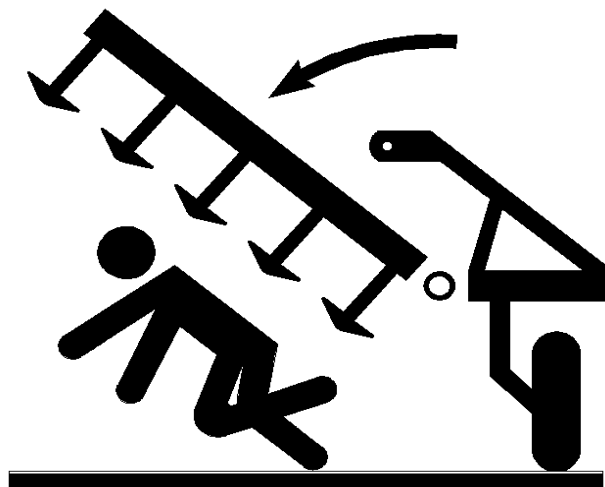
A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT !

General Safety Precautions



DANGER

- Wings may fall rapidly causing injury.
- Always stay clear of wings when being lowered, raised or in an elevated state.
- Always use lockup device provided when raised.
- Ensure cylinder is completely filled with hydraulic fluid to avoid unexpected movement.

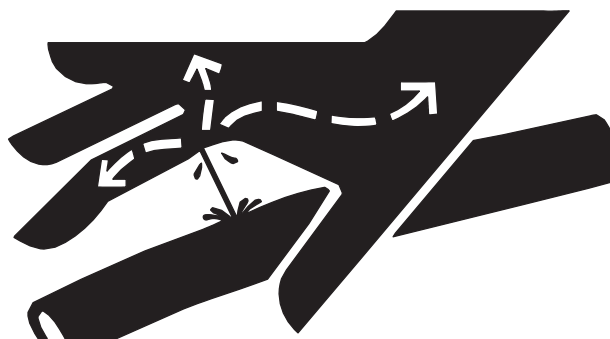


Hydraulics

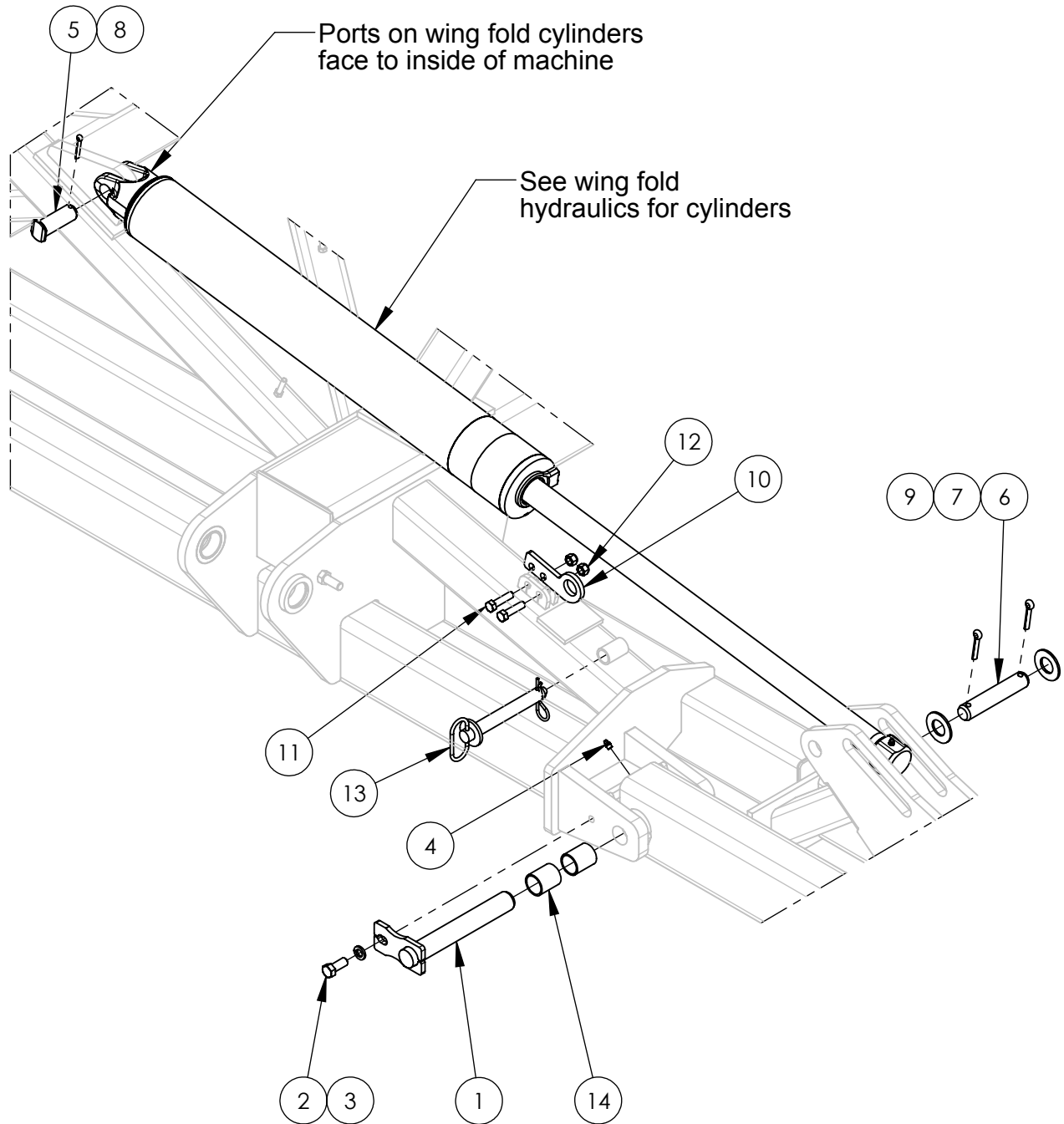


DANGER

- **DO NOT** search for high pressure hydraulic leaks without hand and face protection. A tiny, almost invisible leak can penetrate skin, thereby requiring immediate medical attention.
- Use cardboard or wood to detect leaks – never your hands.
- Double check that all is clear before operating hydraulics.
- **Never** remove hydraulic hoses or ends with machine elevated. Relieve hydraulic pressure before disconnecting hydraulic hoses or ends.
- Maintain proper hydraulic fluid levels.
- Keep all connectors clean for positive connections.
- Ensure all fittings and hoses are in good condition.
- Do not stand under wings.



Frame and Wing Assembly



Frame and Wing Assembly

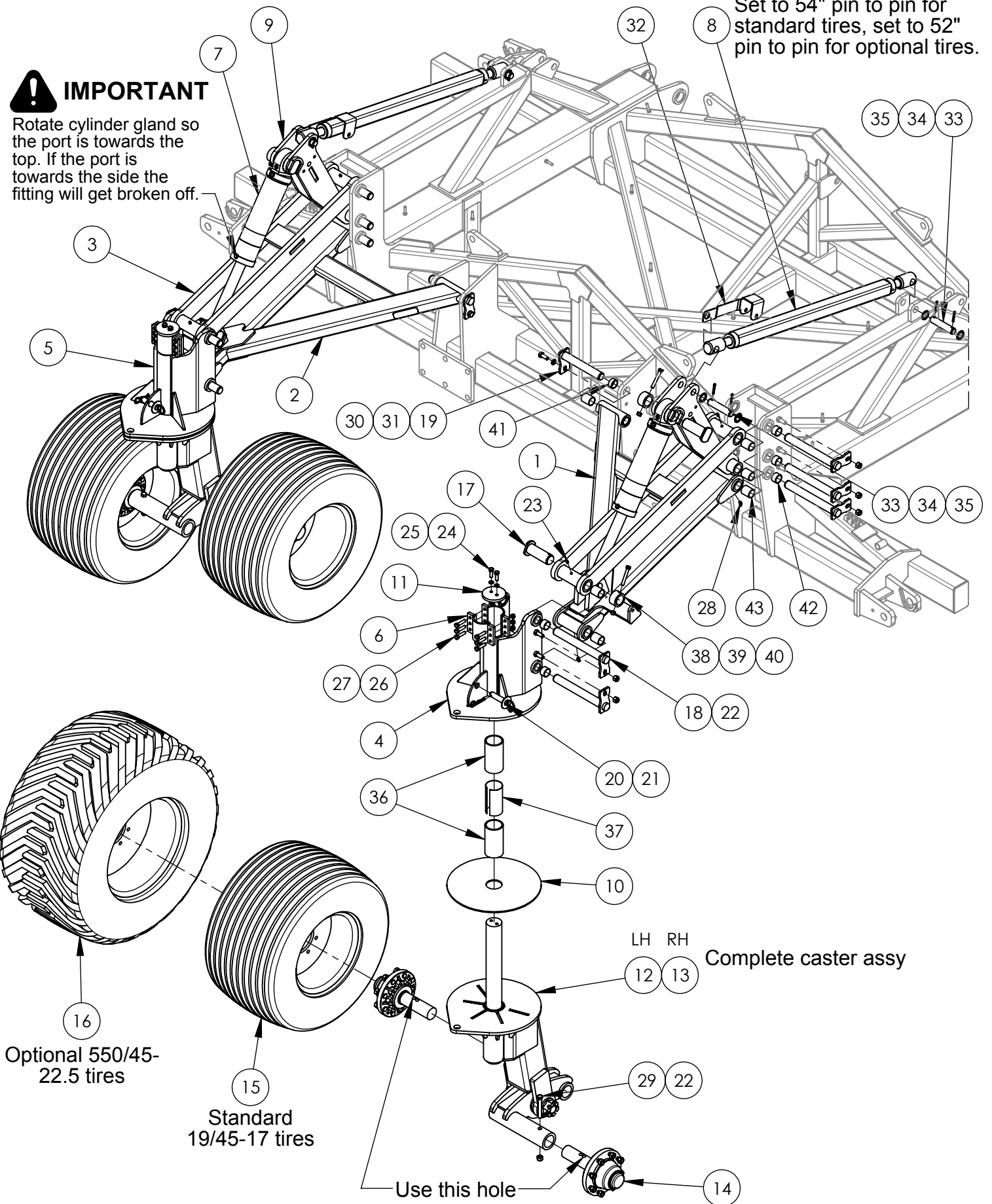
ITEM	QTY	PART NO.	DESCRIPTION
1	4	GPH2401000F	1 1/2" x 10 7/8" LG. AXLE PIN - HARDENED
2	4	B1015	5/8 X 1 1/2" PLATED BOLT
3	4	BL10	5/8" LOCKWASHER
4	4	GF1610	1/8" NPT GREASE FITTING
5	4	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
6	4	GPH2000612A06	1 1/4" x 6 1/2" HARDENED PIN - 2 HOLES
7	8	BF20S	1 1/4" SAE WASHER
8	4	BSC0520	5/16" x 2" COTTER PIN
9	8	BSC0620	3/8" x 2" COTTER PIN
10	4	FL01527	525-60'/70' WING LOCK
11	8	B0820	1/2" NC x 2" LG. HEX BOLT GR. 5
12	8	BN08L	1/2" NYLOCK NUT NC
13	4	GP1600714C04	1" x 7 1/4" HITCH PIN
14	8	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING

Main Front Axle Installation

Set to 54" pin to pin for standard tires, set to 52" pin to pin for optional tires.

! IMPORTANT

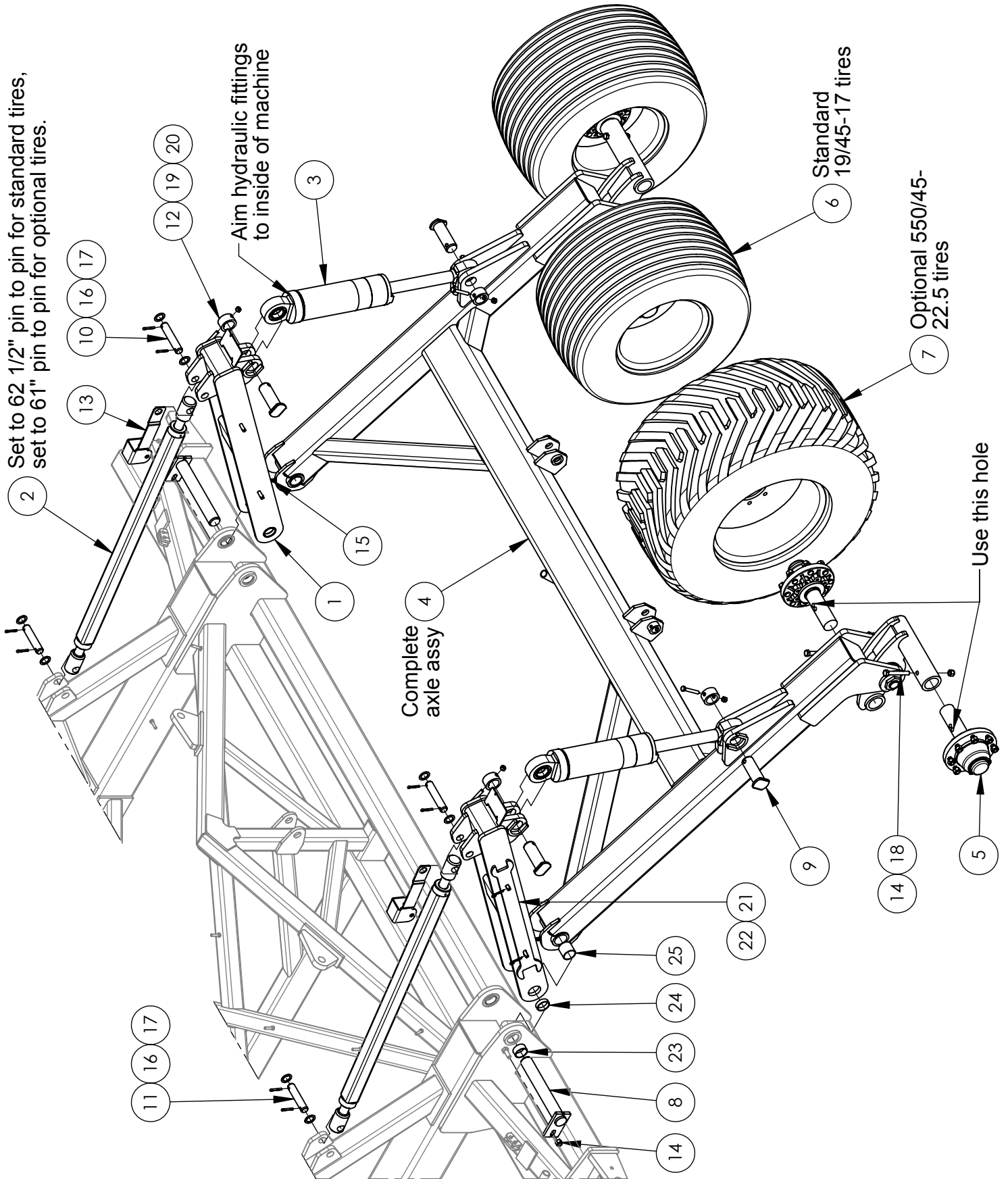
Rotate cylinder gland so the port is towards the top. If the port is towards the side the fitting will get broken off.



Main Front Axle Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01653L	525-40' MAIN FRONT AXLE LOWER ARM - LH
2	1	T01653R	525-40' MAIN FRONT AXLE LOWER ARM - RH
3	2	T01418	525-60'/70' MAIN FRONT AXLE UPPER ARM
4	1	T01666L	525-40' MAIN CASTER KNUCKLE - LH
5	1	T01666R	525-40' MAIN CASTER KNUCKLE - RH
6	2	T01018	520 3" FRONT CASTER BRAKE RETAINER
7	2	HSR4012BBJ	4" x 12" BALL JOINT REPHASING CYLINDER
8	2	A60039	2 1/2" TURNBUCKLE 42" TUBE
9	2	T01659	525-40' MAIN FRONT AXLE CYLINDER LUG
10	2	T01073	520 CASTER WASHER 3" SHAFT
11	2	P20012	4 1/2" DIA. x 1/2" CAP
12	1	T01633L	525-40' MAIN CASTER ASSY - LH
13	1	T01633R	525-40' MAIN CASTER ASSY - RH
14	4	GW8000A	8000 lb GREASABLE HUB AND 14" SPINDLE ASSY
15	4	GW19/45-17	19.0/45-17 TIRE & 8 BOLT WHEEL
16	4	GW550/45-22.5-12	550/45-22.5 16 PLY TIRE & 8 BOLT WHEEL
17	4	GPHF3200512H08	2" x 5 1/2" SHOULDER PIN W/ FLATS
18	10	GPH2401312F	1 1/2" x 13 7/8" LG. AXLE PIN - HARDENED
19	2	GPH2401000F	1 1/2" x 10 7/8" LG. AXLE PIN - HARDENED
20	2	GP1600414C04	1" x 4 1/4" RING & WASHER PIN
21	2	GHP6	#6 HAIR PIN
22	14	BN10L	5/8" NYLOCK NUT NC
23	4	GF1610	1/8" NPT GREASE FITTING
24	4	B0815	1/2" NC x 1 1/2" LG. HEX BOLT GR. 5
25	4	BL08	1/2" SPRING WASHER
26	12	B0820	1/2" NC x 2" LG. HEX BOLT GR. 5
27	12	BN08S	1/2"-13NC STOVER LOCK NUT
28	8	GF1688	1/8" NPT GREASE FITTING 45deg
29	4	B1045	5/8 x 4-1/2" LG. HEX BOLT
30	2	B1015	5/8 X 1 1/2" PLATED BOLT
31	2	BL10	5/8" LOCKWASHER
32	2	C10716	2 1/2" TURNBUCKLE LOCK
33	4	GPH20006A06	1 1/4" x 6" HARDENED PIN - 2 HOLES
34	8	GM30	1 1/4" MACHINE BUSHING
35	8	BSC0520	5/16" x 2" COTTER PIN
36	4	P20001	3 1/2" OD x 3" ID x 6 1/2" NYLON BUSHING
37	2	T01190	3" OD x 6" LG SPACER FOR CASTER BUSHING
38	4	ZD271342	2 3/4" OD x 2.02" ID x 1 7/16" LG. LOCKING COLLAR
39	4	B0835	1/2" UNC HEX BOLT GR.5 PLATED
40	4	BN08L	1/2" NYLOCK NUT NC
41	4	GBB175150075	1 3/4" x 1 1/2" x 3/4" LG. HARD BUSHING
42	20	GBB175150100	1 3/4" x 1 1/2" x 1" LG. HARD BUSHING
43	24	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING

Main Rear Axle Installation



Main Rear Axle Installation

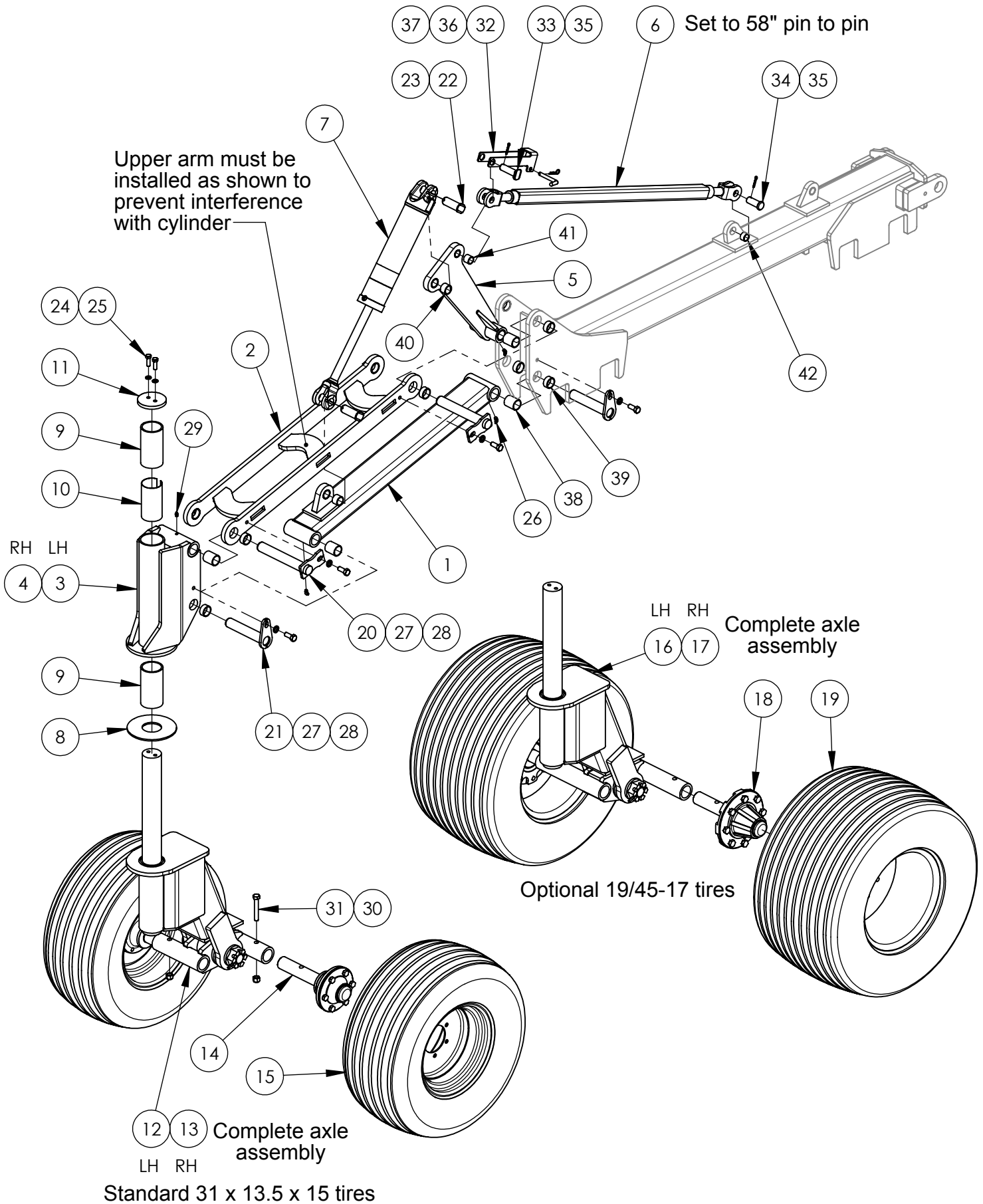
ITEM	QTY	PART NO.	DESCRIPTION
1	2	T01636	525 MAIN REAR AXLE TOWER
2	2	A60031	2 1/2" TURNBUCKLE 50" TUBE
3	2	HSR4512BBJ	4 1/2" x 12" BALL JOINT REPHASING CYLINDER
4	1	T01634	525-40' REAR AXLE ASSEMBLY
5	4	GW8000A	8000 lb GREASABLE HUB AND 14" SPINDLE ASSY
6	4	GW19/45-17	19.0/45-17 TIRE & 8 BOLT WHEEL
7	4	GW550/45-22.5-12	550/45-22.5 16 PLY TIRE & 8 BOLT WHEEL
8	2	GPH3201434F	2" x 14 3/4" LG. AXLE PIN - HARDENED
9	4	GPHF3200512H08	2" x 5 1/2" SHOULDER PIN W/ FLATS
10	2	GPH2000612A06	1 1/4" x 6 1/2" HARDENED PIN - 2 HOLES
11	2	GPH20006A06	1 1/4" x 6" HARDENED PIN - 2 HOLES
12	4	ZD271342	2 3/4" OD x 2.02" ID x 1 7/16" LG. LOCKING COLLAR
13	2	C10716	2 1/2" TURNBUCKLE LOCK
14	6	BN10L	5/8" NYLOCK NUT NC
15	2	GF1613	1/8" NPT GREASE FITTING 90deg
16	8	GM30	1 1/4" MACHINE BUSHING
17	8	BSC0520	5/16" x 2" COTTER PIN
18	4	B1045	5/8 x 4-1/2" LG. HEX BOLT
19	4	B0835	1/2" UNC HEX BOLT GR.5 PLATED
20	4	BN08L	1/2" NYLOCK NUT NC
21	1	FL02085	525-40' TURNBUCKLE WRENCH
22	2	GHP11	#11 HAIR PIN
23	4	GBB225200100	2 1/4" x 2" x 1" LG. HARD BUSHING
24	4	GBB225200062	2 1/4" x 2" x 5/8" LG. HARD BUSHING
25	4	GBB225200200	2 1/4" x 2" x 1" LG. HARD BUSHING



CAUTION

To adjust axle tower brace turnbuckles, machine should be lowered completely so there is no load on the turnbuckles. Unpin one turnbuckle then adjust both to the desired length to avoid twisting rear axle. OR, adjust both turnbuckles at the same time.

Wing Front Axle Installation



Wing Front Axle Installation

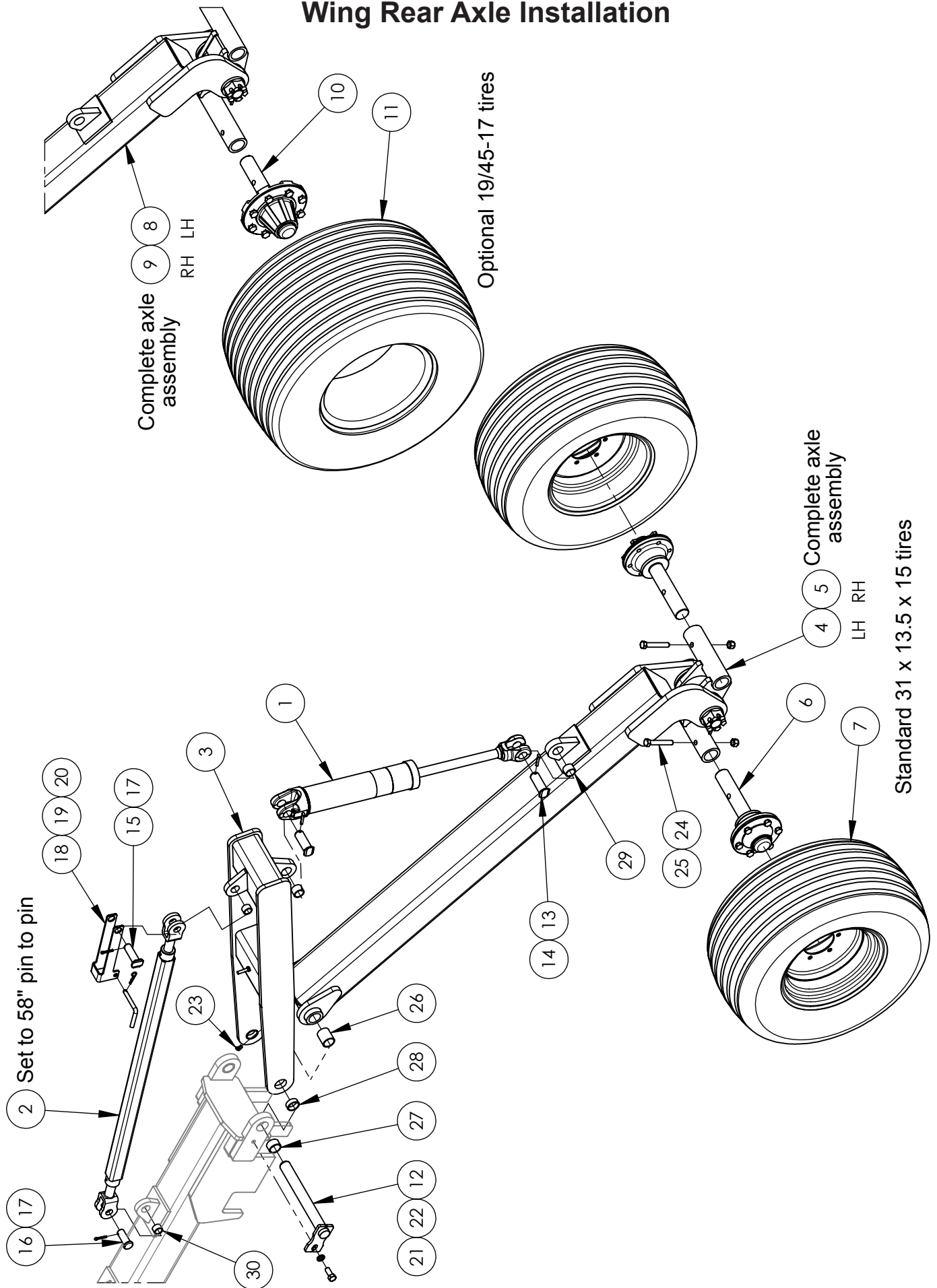
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01638	525-40' WING FRONT AXLE LOWER ARM
2	1	T01425	525 WING AXLE UPPER PARALLEL ARM
3	1	T01582L	525-30FT WING CASTER WHEEL KNUCKLE - LH
4	1	T01582R	525-30FT WING CASTER WHEEL KNUCKLE - RH
5	1	T01639	525-40' FRONT WING AXLE ROCKER
6	1	A60024	1 1/4" TURNBUCKLE - 45" TUBE
7	1	HSR3512B	3 1/2" BORE x 12" STROKE REPHASING CYLINDER
8	1	T00483	7 3/4" OD 3 1/16" ID x 1/4" UHMW WASHER
9	2	P20001	3 1/2" OD x 3" ID x 6 1/2" NYLON BUSHING
10	1	T01190	3" OD x 6" LG SPACER FOR CASTER BUSHING
11	1	P20012	4 1/2" DIA. x 1/2" CAP
A	12	T01467L	525 WING CASTER AXLE ASSY FOR GW13156 TIRES - LH
	13	T01467R	525 WING CASTER AXLE ASSY FOR GW13156 TIRES - RH
	14	GW5000A	5000 LB HUB AND SPINDLE ASSEMBLY
	15	GW13156	31 x 13.5L x 15 x 6 BOLT WHEEL & TIRE
B	16	T01465L	525 WING CASTER AXLE ASSY FOR GW19/45-17 TIRES - LH
	17	T01465R	525 WING CASTER AXLE ASSY FOR GW19/45-17 TIRES - RH
	18	GW5500A	5500 LB HUB AND SPINDLE ASSEMBLY
	19	GW19/45-17	19.0/45-17 TIRE & 8 BOLT WHEEL
20	2	GPH2401000F	1 1/2" x 10 7/8" LG. AXLE PIN - HARDENED
21	2	GPH2400818F	1 1/2" x 8 1/8" LG. HARD PLATE PIN
22	2	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
23	2	BSC0520	5/16" x 2" COTTER PIN
24	2	BL08	1/2" SPRING WASHER
25	2	B0815	1/2" NC x 1 1/2" LG. HEX BOLT GR. 5
26	3	GF1688	1/8" NPT GREASE FITTING 45deg
27	4	B1015	5/8 X 1 1/2" PLATED BOLT
28	4	BL10	5/8" LOCKWASHER
29	1	GF1610	1/8" NPT GREASE FITTING
30	2	BN10L	5/8" NYLOCK NUT NC
31	2	B1040	5/8"NC x 4" LG. HEX BOLT
32	1	FL00051	TURNBUCKLE LOCK
33	1	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
34	1	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
35	2	BSC0415	1/4" x 1 1/2" COTTER PIN
36	1	GP0800312L03	1/2" x 3 1/2" L - PIN
37	1	GHP11	#11 HAIR PIN
38	8	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
39	10	GBB175150075	1 3/4" x 1 1/2" x 3/4" LG. HARD BUSHING
40	2	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
41	1	GBB125100100	1 1/4" x 1" x 1" LG. HARD BUSHING
42	1	GBB125100075	1 1/4" x 1" x 3/4" LG. HARD BUSHING

Quantities shown are for one front wing axle installation only.

A - for standard 31 x 13.5 x 15 tires

B - for optional 19/45-17 tires

Wing Rear Axle Installation



Wing Rear Axle Installation

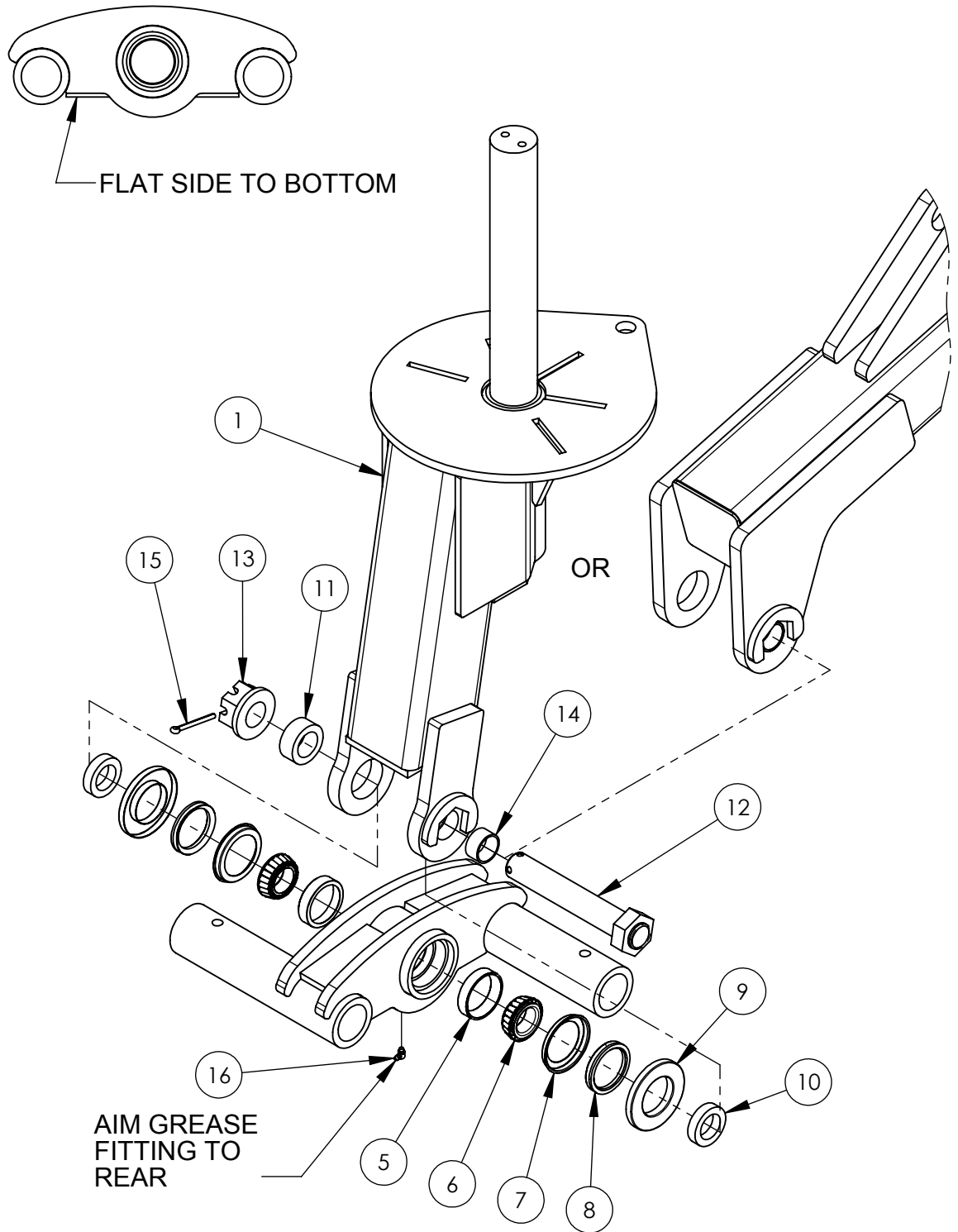
ITEM	QTY	PART NO.	DESCRIPTION
1	1	HSR3212B	3 1/4" BORE x 12" STROKE REPHASING CYLINDER
2	1	A60024	1 1/4" TURNBUCKLE - 45" TUBE
3	1	T01435	525 BIFOLD WING REAR AXLE TOWER
A	4	T01468L	525 WING REAR AXLE ASSY FOR GW13156 TIRES - LH
	5	T01468R	525 WING REAR AXLE ASSY FOR GW13156 TIRES - RH
	6	GW5000A	5000 LB HUB AND SPINDLE ASSEMBLY
	7	GW13156	31 x 13.5L x 15 x 6 BOLT WHEEL & TIRE
B	8	T01466L	525 WING REAR AXLE ASSY FOR GW19/45-17 TIRES - LH
	9	T01466R	525 WING REAR AXLE ASSY FOR GW19/45-17 TIRES - RH
	10	GW5500A	5500 LB HUB AND SPINDLE ASSEMBLY
	11	GW19/45-17	19.0/45-17 TIRE & 8 BOLT WHEEL
12	1	GPH2401312F	1 1/2" x 13 7/8" LG. AXLE PIN - HARDENED
13	2	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
14	2	BSC0520	5/16" x 2" COTTER PIN
15	1	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
16	1	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
17	2	BSC0415	1/4" x 1 1/2" COTTER PIN
18	1	FL00051	TURNBUCKLE LOCK
19	1	GP0800312L03	1/2" x 3 1/2" L - PIN
20	1	GHP11	#11 HAIR PIN
21	1	BL10	5/8" LOCKWASHER
22	1	B1015	5/8 X 1 1/2" PLATED BOLT
23	1	GF1613	1/8" NPT GREASE FITTING 90deg
24	2	B1040	5/8"NC x 4" LG. HEX BOLT
25	2	BN10L	5/8" NYLOCK NUT NC
26	2	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
27	2	GBB175150100	1 3/4" x 1 1/2" x 1" LG. HARD BUSHING
28	2	GBB175150062	1 3/4" x 1 1/2" x 5/8" LG. HARD BUSHING
29	2	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
30	2	GBB125100075	1 1/4" x 1" x 3/4" LG. HARD BUSHING

Quantities shown are for one rear wing axle installation only.

A - for standard 31 x 13.5 x 15 tires

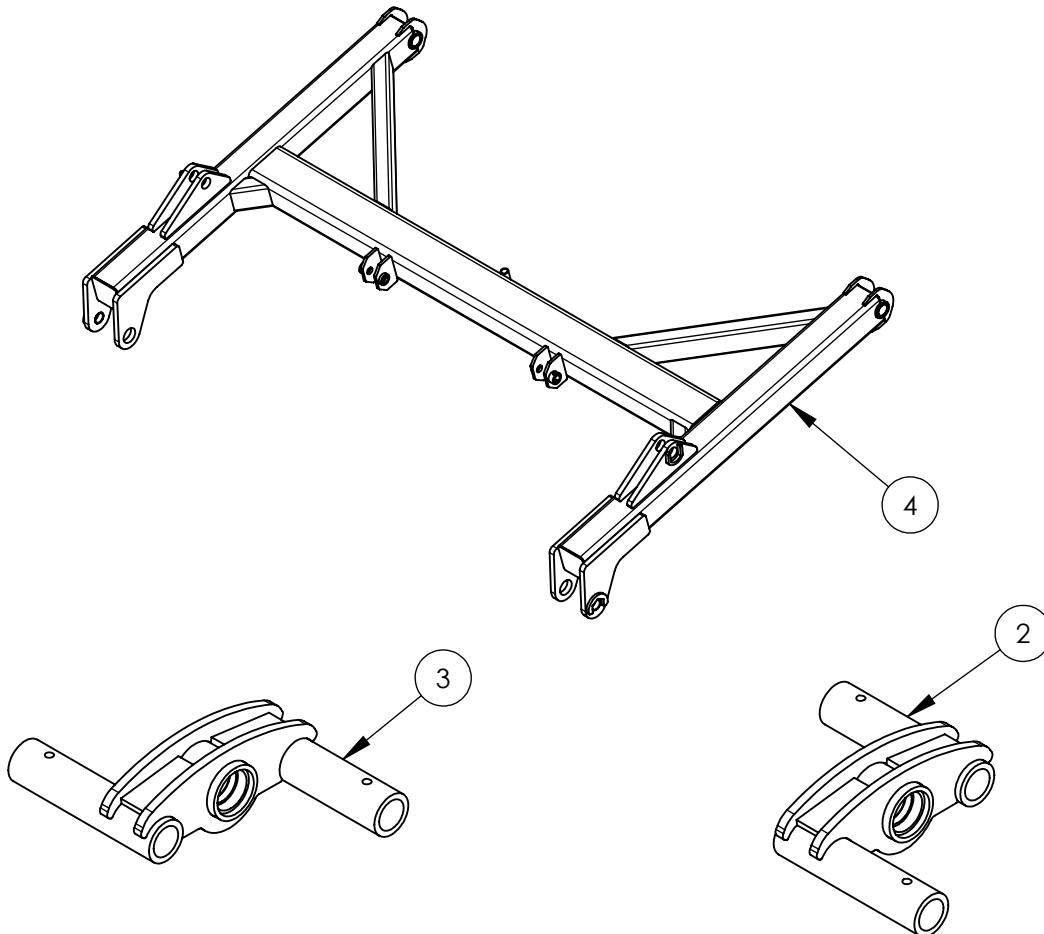
B - for optional 19/45-17 tires

Main Frame Axle Parts

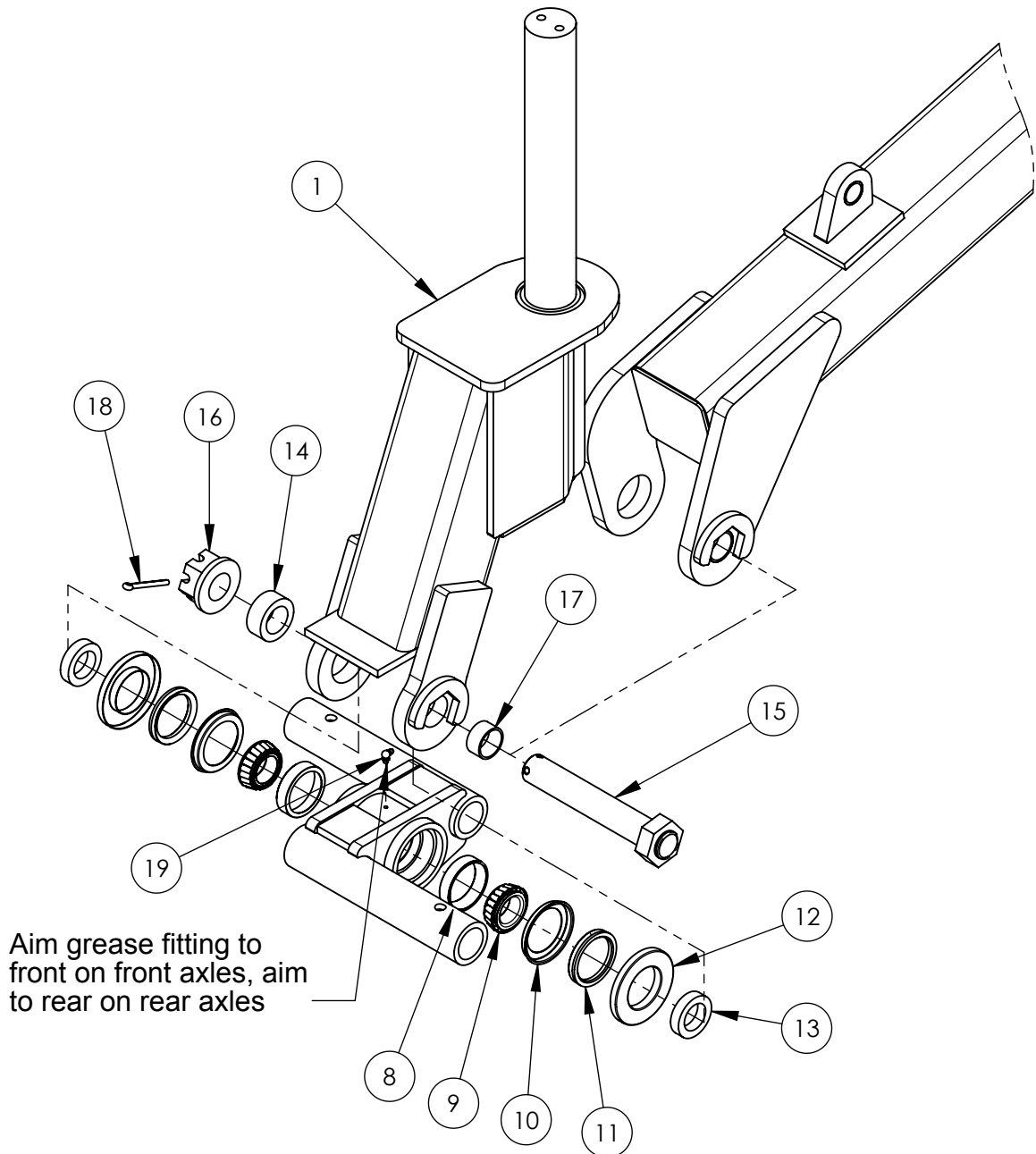
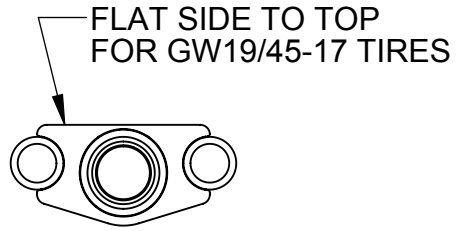


Main Frame Axle Parts

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01665	525-40' MAIN CASTER
2	1	T01032L	520 16,000 LB TANDEM - LH
3	1	T01032R	520 16,000 LB TANDEM - RH
4	1	T01635	525-40' MAIN REAR AXLE
5	2	GB255204	10000 LB OUTER CUP
6	2	GB255814	10000 LB OUTER CONE
7	2	GW8110VC	8000 LB V-SEAL COUNTERFACE
8	2	GW8110VS	8000 LB V-SEAL
9	2	GW8110VW	8000 LB V-SEAL GRASS WRAP GUARD
10	2	ZD271015	TANDEM CASTER WHEEL BEARING SPACER
11	1	ZD271204	2 3/4" OD X 1.760" ID x 1 1/8" LG TANDEM CASTER
12	1	GPSPEC2801125	520 TANDEM PIN - 1 3/4" x 11 1/4" LG.
13	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
14	1	GBB200175100	2" x 1 3/4" x 1" LG. HARD BUSHING
15	1	BSC0535	5/16" x 2" COTTER PIN
16	1	GF911	1/4"28NF x 90 DEGREE GREASE FITTING

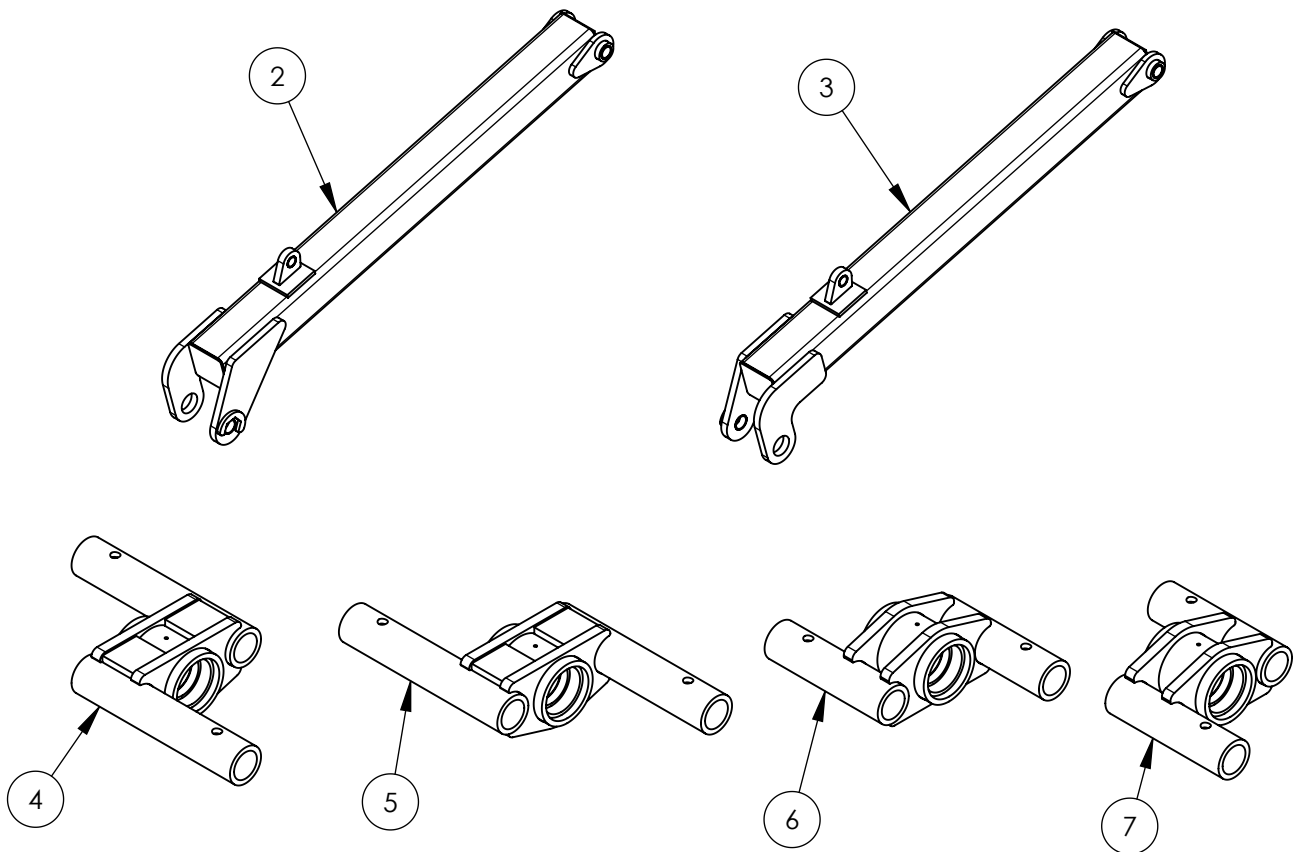


Wing Axle Parts

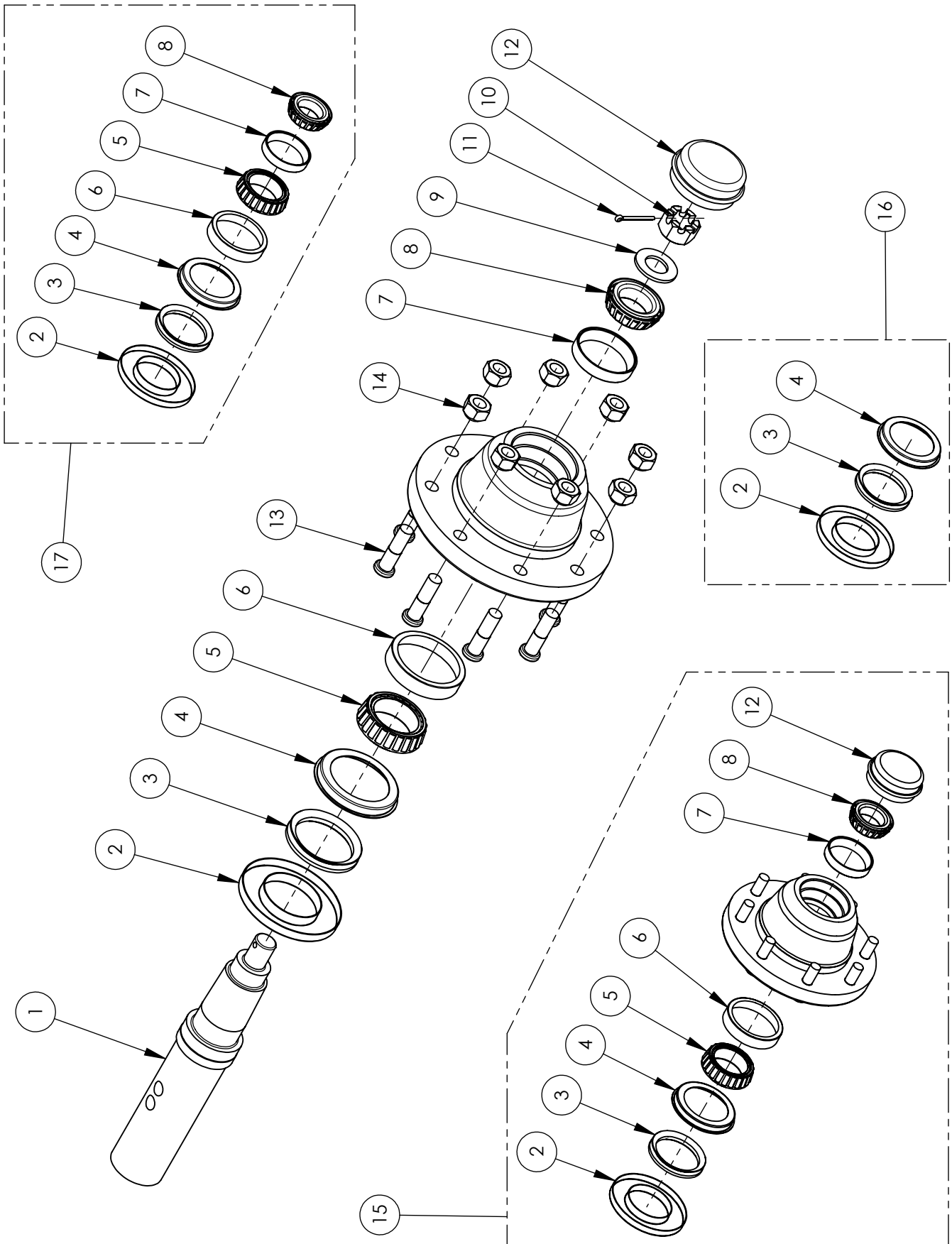


Wing Axle Parts

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01427	525 HD WING CASTER
2	1	T01428L	525 WING REAR AXLE UPRIGHT - LH
3	1	T01428R	525 WING REAR AXLE UPRIGHT - RH
4	1	T01136L	520 TANDEM FOR 5500 HUBS - LH
5	1	T01136R	520 TANDEM FOR 5500 HUBS - RH
6	1	T01105L	520 TANDEM FOR 5000 LB HUBS - LH
7	1	T01105R	520 TANDEM FOR 5000 LB HUBS - RH
8	2	GB255204	10000 LB OUTER CUP
9	2	GB255814	10000 LB OUTER CONE
10	2	GW8110VC	8000 LB V-SEAL COUNTERFACE
11	2	GW8110VS	8000 LB V-SEAL
12	2	GW8110VW	8000 LB V-SEAL GRASS WRAP GUARD
13	2	ZD271015	TANDEM CASTER WHEEL BEARING SPACER
14	1	ZD271204	2 3/4" OD X 1.760" ID x 1 1/8" LG TANDEM CASTER
15	1	GPSPEC2801125	520 TANDEM PIN - 1 3/4" x 11 1/4" LG.
16	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
17	1	GBB200175100	2" x 1 3/4" x 1" LG. HARD BUSHING
18	1	BSC0535	5/16" x 2" COTTER PIN
19	1	GF911	1/4"28NF x 90 DEGREE GREASE FITTING



8000LB Hub & Spindle Assembly

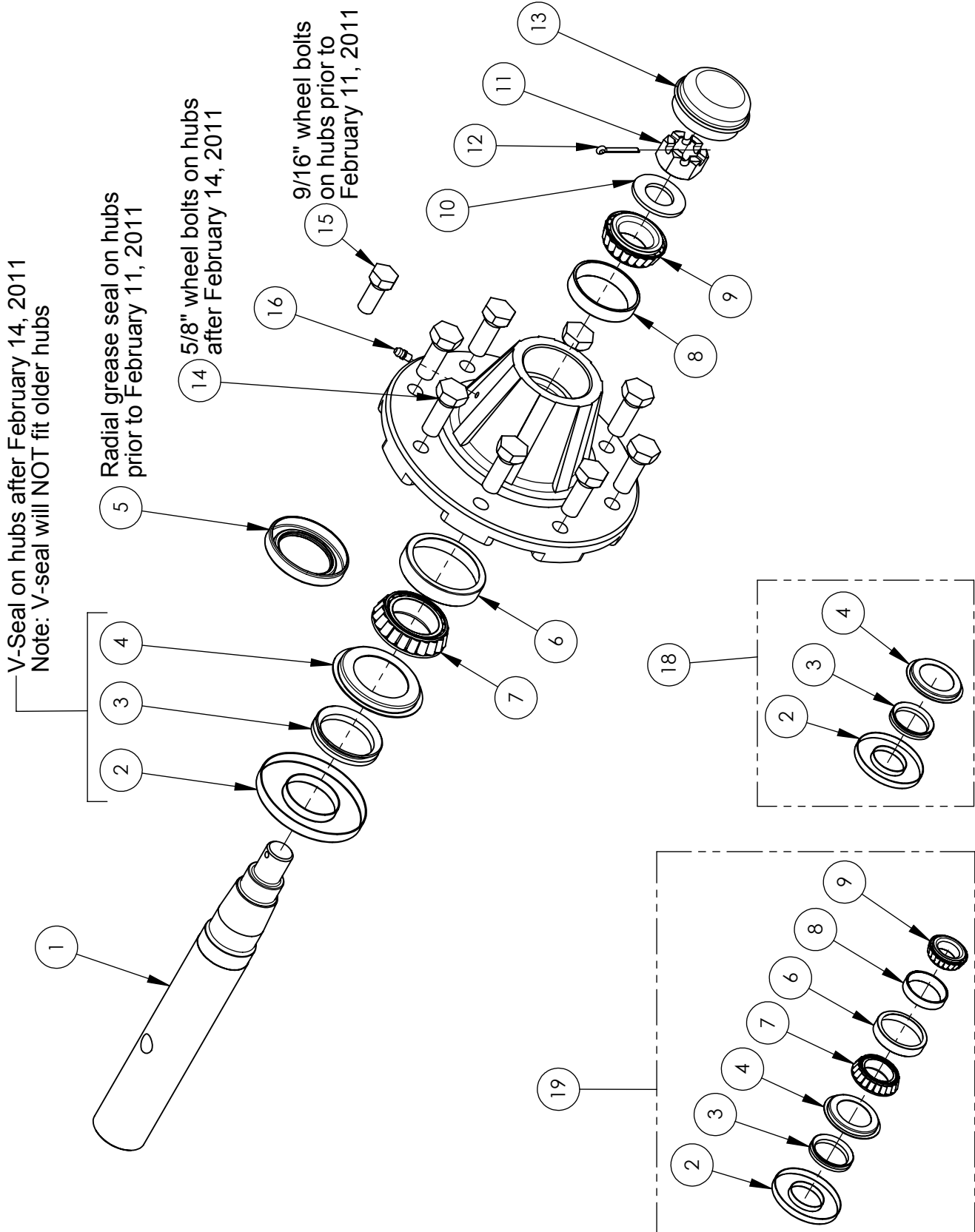


8000LB Hub & Spindle Assembly

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	GW8014	SPINDLE, 8 000 LBS.
2	1	GW8110VW	8000 LB V-SEAL GRASS WRAP GUARD
3	1	GW8110VS	8000 LB V-SEAL
4	1	GW8110VC	8000 LB V-SEAL COUNTERFACE
5	1	GB506849	8000 INNER CONE
6	1	GB506810	8000 INNER CUP
7	1	GB501310	8000 OUTER CUP
8	1	GB501349	8000 OUTER CONE
9	1	GW8108	1" SPINDLE WASHER
10	1	BN16S	1" SLOTTED HEX NUT
11	1	BSC0317	3/16" x 1 3/4" COTTER PIN
12	1	GW8112	8000 DUST CAP
13	8	BW1020	5/8" x 2" PRESS-IN WHEEL STUD
14	8	BW10	5/8" WHEEL LUG NUT
15	1	GW8000	8000 LB HUB WITH BEARINGS, V-SEAL, & DUSTCAP
16	1	GW8110V	8000 LB V-SEAL KIT
17	1	GW8111V	8000 LB BEARING WITH V-SEAL KIT

Entire assembly available as part number GW8000A (includes hub, spindle, bearings, seal, dust cap, and hardware).

5500LB Hub & Spindle Assembly

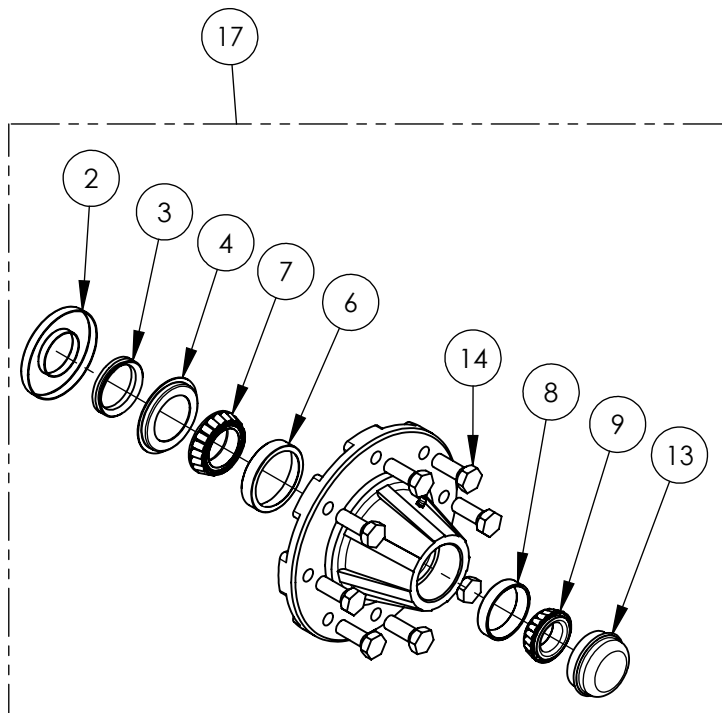


5500LB Hub & Spindle Assembly

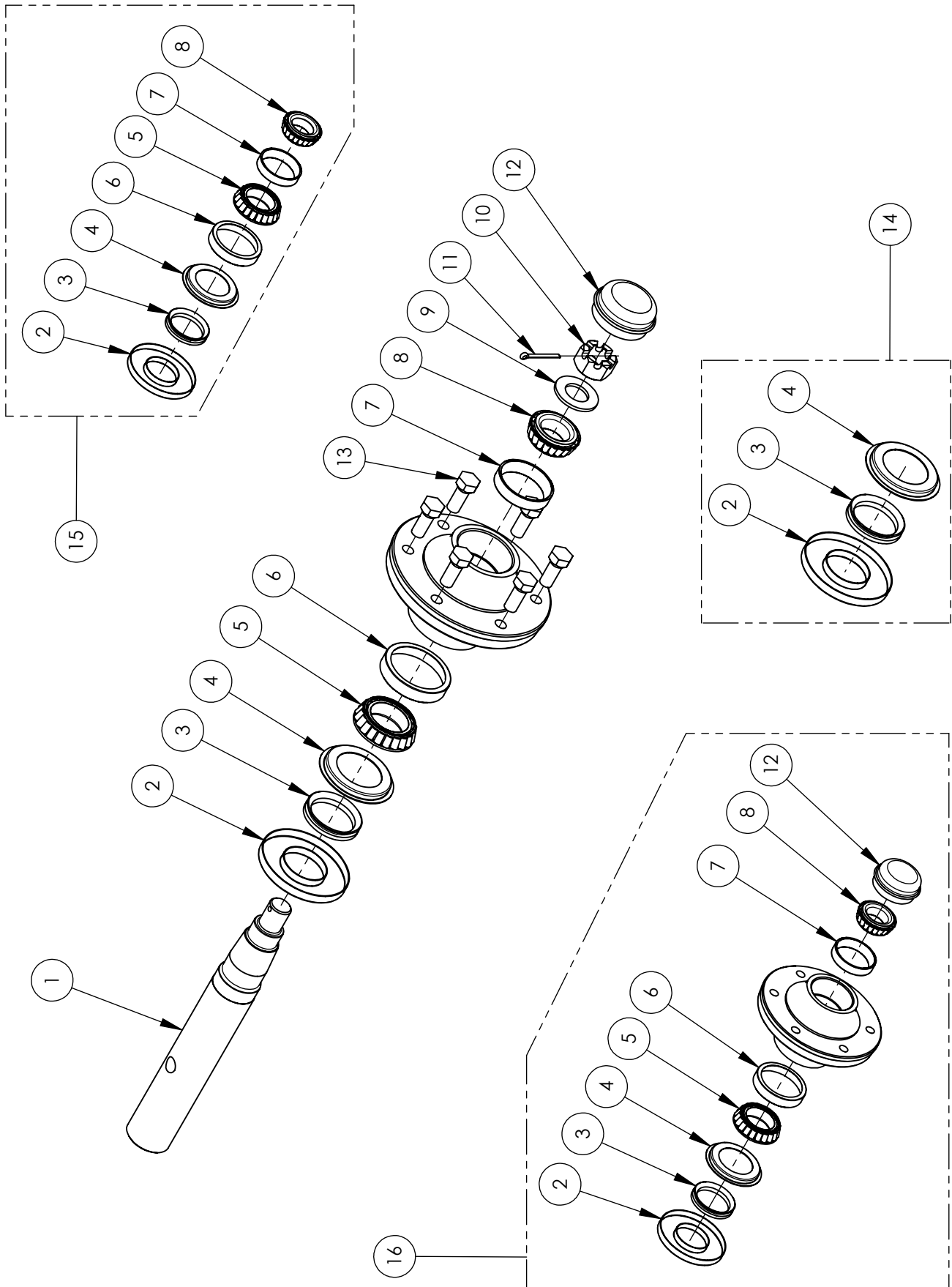
ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW5014	5000/5500 LB SPINDLE-14 IN. LG
2	1	GW5110VW	5000/5500 LB V-SEAL GRASS WRAP GUARD
3	1	GW5110VS	5000/5500 LB V-SEAL
4	1	GW5110VC	5000/5500 LB SEAL COUNTERFACE
* 5	1	GW5110	5000/5500 LB GREASE SEAL
6	1	GB603011	5000/5500 LB INNER CUP
7	1	GB603049	5000/5500 LB INNER CONE
8	1	GB48510	5000/5500 LB OUTER CUP, 3000 LB INNER CUP
9	1	GB48548	5000/5500 LB OUTER CONE, 3000 LB INNER CONE
10	1	BF16-9	1" HARD SAE FLAT WASHER GR.9 PLATED
11	1	BN16SF	1" NF SLOTTED HEX NUT
12	1	BSC0315	3/16" x 1 1/2" COTTER PIN
13	1	GW5112	5000/5500 LB DUST CAP
14	8	BW1015	5/8"-18 x 1 1/2" WHEEL BOLT
* 15	8	BW0912	9/16"-18 x 1 1/4" WHEEL BOLT
16	1	GF641	1/4"-28NF GREASE FITTING
17	1	GW5500	5500 LB HUB WITH BEARINGS, V-SEAL, DUST CAP & WHEEL BOLTS
18	1	GW5110V	5000/5500 LB V-SEAL KIT
19	1	GW5111V	5000/5500 LB BEARING WITH V-SEAL KIT

* Used on hubs prior to February 11, 2011.

Entire assembly available as part number GW5500A (includes hub, spindle, bearings, seal, dust cap, and hardware).



5000LB Hub & Spindle Assembly

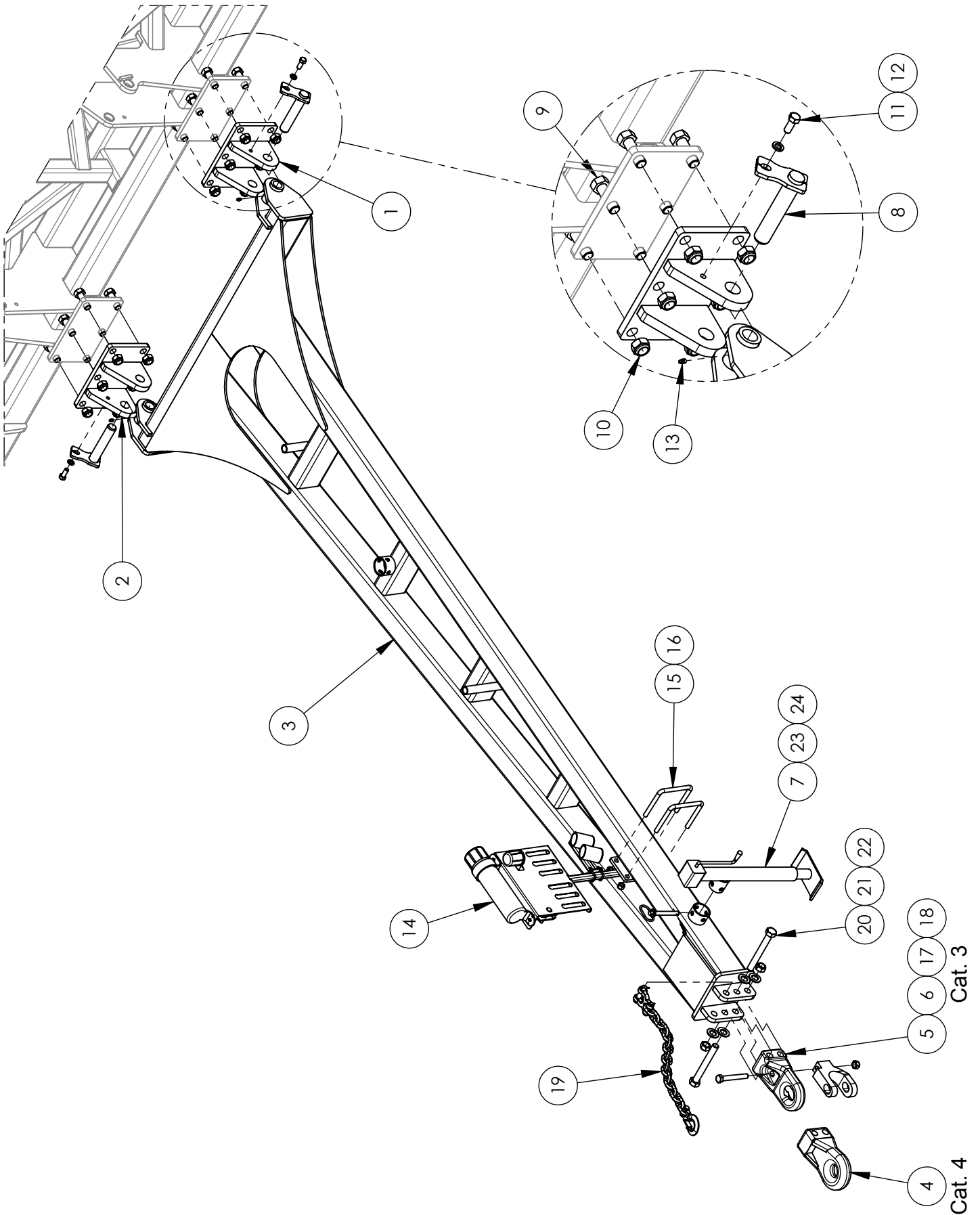


5000LB Hub & Spindle Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW5014	5000 LB SPINDLE-14 IN. LG
2	1	GW5110VW	5000 LB V-SEAL GRASS WRAP GUARD
3	1	GW5110VS	5000 LB V-SEAL
4	1	GW5110VC	5000 LB SEAL COUNTERFACE
5	1	GB603049	5000/5500 LB INNER CONE
6	1	GB603011	5000/5500 LB INNER CUP
7	1	GB48510	5000/5500 LB OUTER CUP, 3000 LB INNER CUP
8	1	GB48548	5000/5500 LB OUTER CONE, 3000 LB INNER CONE
9	1	BF16-9	1" HARD SAE FLAT WASHER GR.9 PLATED
10	1	BN16SF	1" NF SLOTTED HEX NUT
11	1	BSC0317	3/16" x 1 3/4" COTTER PIN
12	1	GW5112	5000/5500 LB DUST CAP
13	6	BW0912	9/16"-18 x 1 1/4" WHEEL BOLT
14	1	GW5110V	5000 LB V-SEAL KIT
15	1	GW5111V	5000 LB BEARING WITH V-SEAL KIT
16	1	GW5000B	5000 LB HUB WITH BEARINGS, SEAL, & DUST CAP

Complete assembly available as part number GW5000A (includes hub, spindle, bearings, seals, dust cap, and hardware).

Tongue Installation



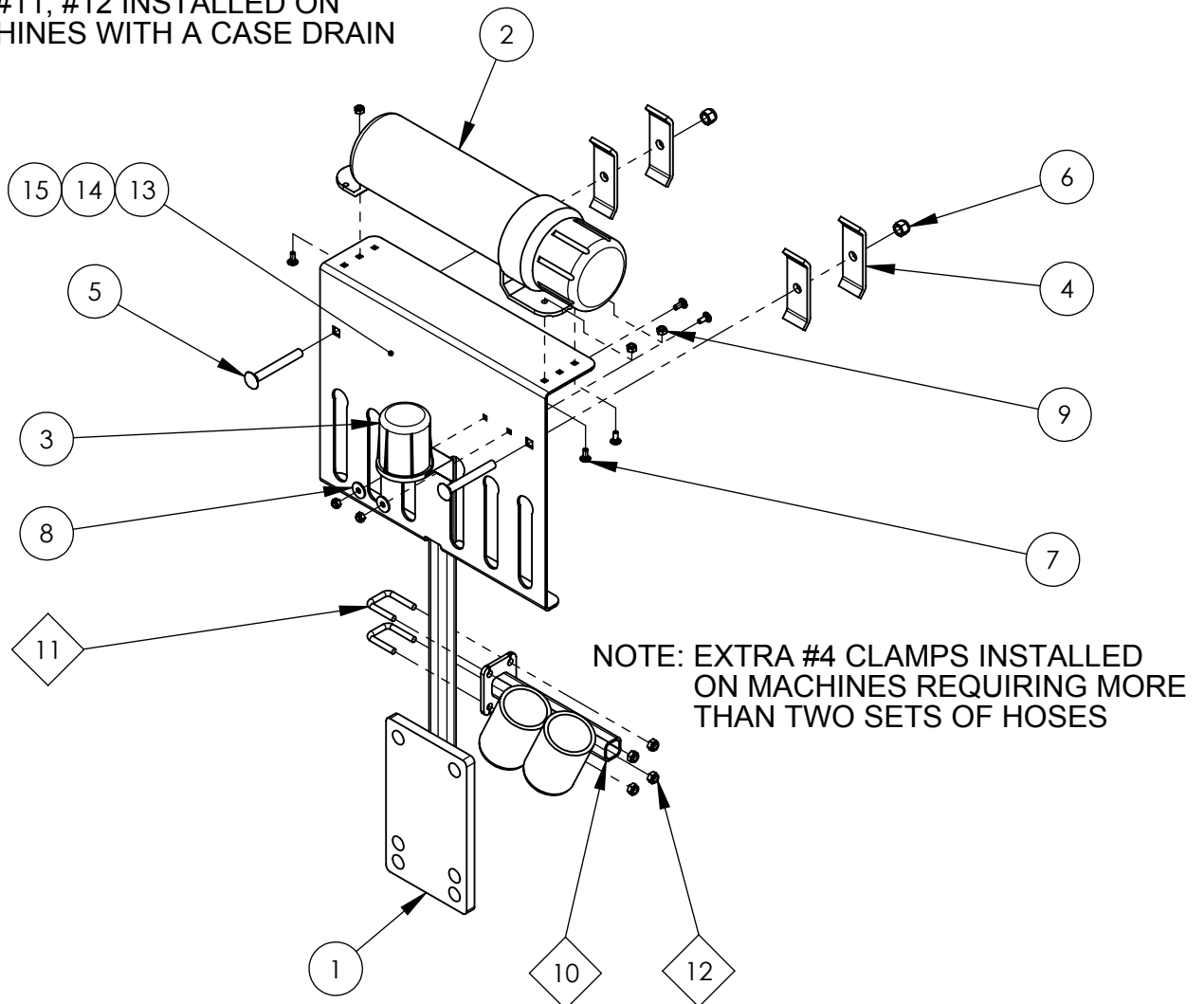
Tongue Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01660L	525-40' TONGUE MOUNT - LH
2	1	T01660R	525-40' TONGUE MOUNT - RH
3	1	T01654	525-30'/40' TONGUE
4	1	PPI-42XL	CAT 4 CAST IRON HITCH
5	1	PPI-30XL	CAT #3 CAST CLEVIS
6	1	PPI-208VR	CLEVIS FOR CAT 3 HITCH
7	1	GJ5000S	5000 LB TONGUE JACK
8	2	GPH2400814F	1 1/2" x 8 1/4" LG. HARD PLATE PIN
9	12	B1630	1" NC x 3" LG. HEX BOLT GR.5
10	12	BN16L	1-8 NC NYLOCK NUT
11	2	B1015	5/8 X 1 1/2" PLATED BOLT
12	2	BL10	5/8" LOCKWASHER
13	2	GF1610	1/8" NPT GREASE FITTING
14	1	A60094A	520 OPERATOR STATION/HOSE HOLDER
15	2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
16	4	BN10L	5/8" NYLOCK NUT NC
17	1	B1255	3/4" NC x 5 1/2" LG. HEX BOLT GR. 5
18	1	BN12S	3/4" STOVER LOCK NUT
19	1	GJ35K48	35,000 LB SAFETY CHAIN - 48" LG.
20	2	B1680H	1" x 8" NC HEX BOLT GR.8
21	4	BF16HS	1" HARD STRUCTURAL WASHER
22	2	BN16C	1"- UNC STOVER LOCKNUT
23	1	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
24	1	GHP11	#11 HAIR PIN

Operator Station Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	A60094	OPERATOR STATION/HOSE HOLDER
2	1	G106	HD OPERATORS MANUAL HOLDER
3	1	GL11750	LIGHT PLUG HOLDER - PLASTIC
4	4	P0160B	HOSE CLAMP 4"
5	2	BC0630	3/8"NC x 3" LG. CARRIAGE BOLT
6	2	BN06L	3/8"-16NC LOCK NUT
7	5	BC0205	10-24 x 1/2" A307A LOW CARBON ZINC CARRIAGE BOLT
8	2	BF04	1/4" FLATWASHER
9	5	BN02L	#10-24 NYLOCK NUT
10	1	A60095	MONITOR PLUG/CASE DRAIN HOLDER
11	2	BU0410	1/4 x 1" x 1 1/2" U-BOLT
12	4	BN04L	1/4" LOCK NUT
13	1	GDSW4	SAFE OPERATION LIST DECAL
14	1	GDSW700	WARNING STICKER ,HIGH PRESSURE FLUID HAZARD
15	1	GD210	HOSE IDENTIFICATION DECAL

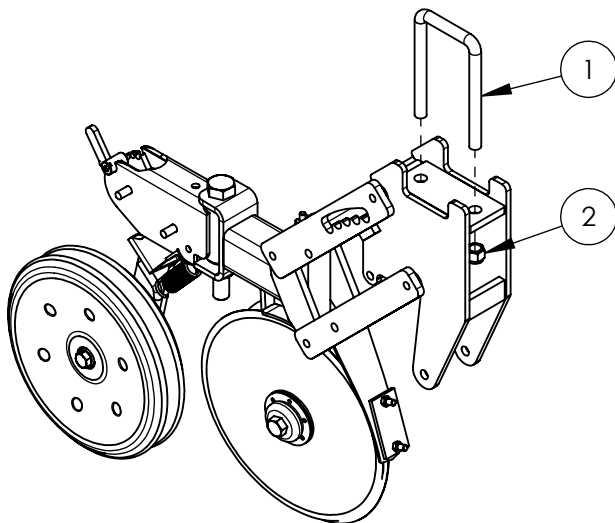
#10, #11, #12 INSTALLED ON MACHINES WITH A CASE DRAIN



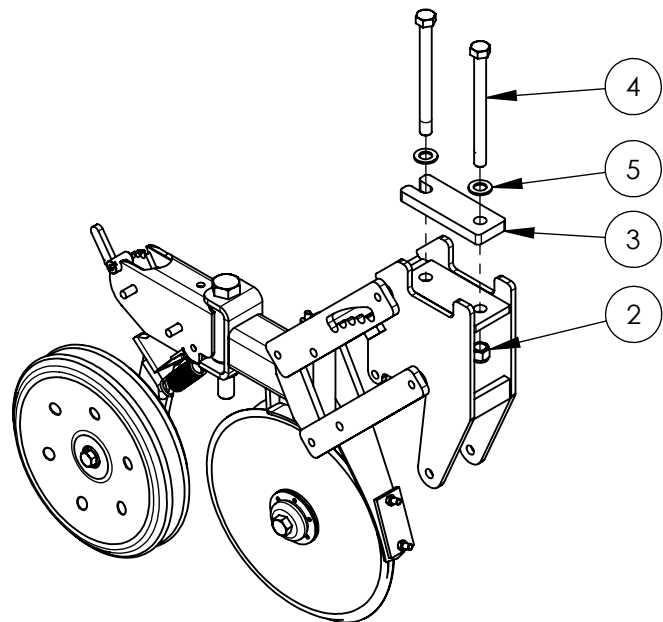
Opener Mounting

ITEM	QTY	PART NO.	DESCRIPTION
1	1	BU1246	U-BOLT 3/4" x 4" x 7 1/2" LG.
2	2	BN12L	3/4" NC NYLOCK NUT
3	1	FL01207	PULL-UP PLATE FOR 500 OPENER
4	2	B1285	3/4"NC x 8 1/2" LG. HEX BOLT GR.5
5	2	BF12HS	3/4" HARD STRUCTURAL WASHER

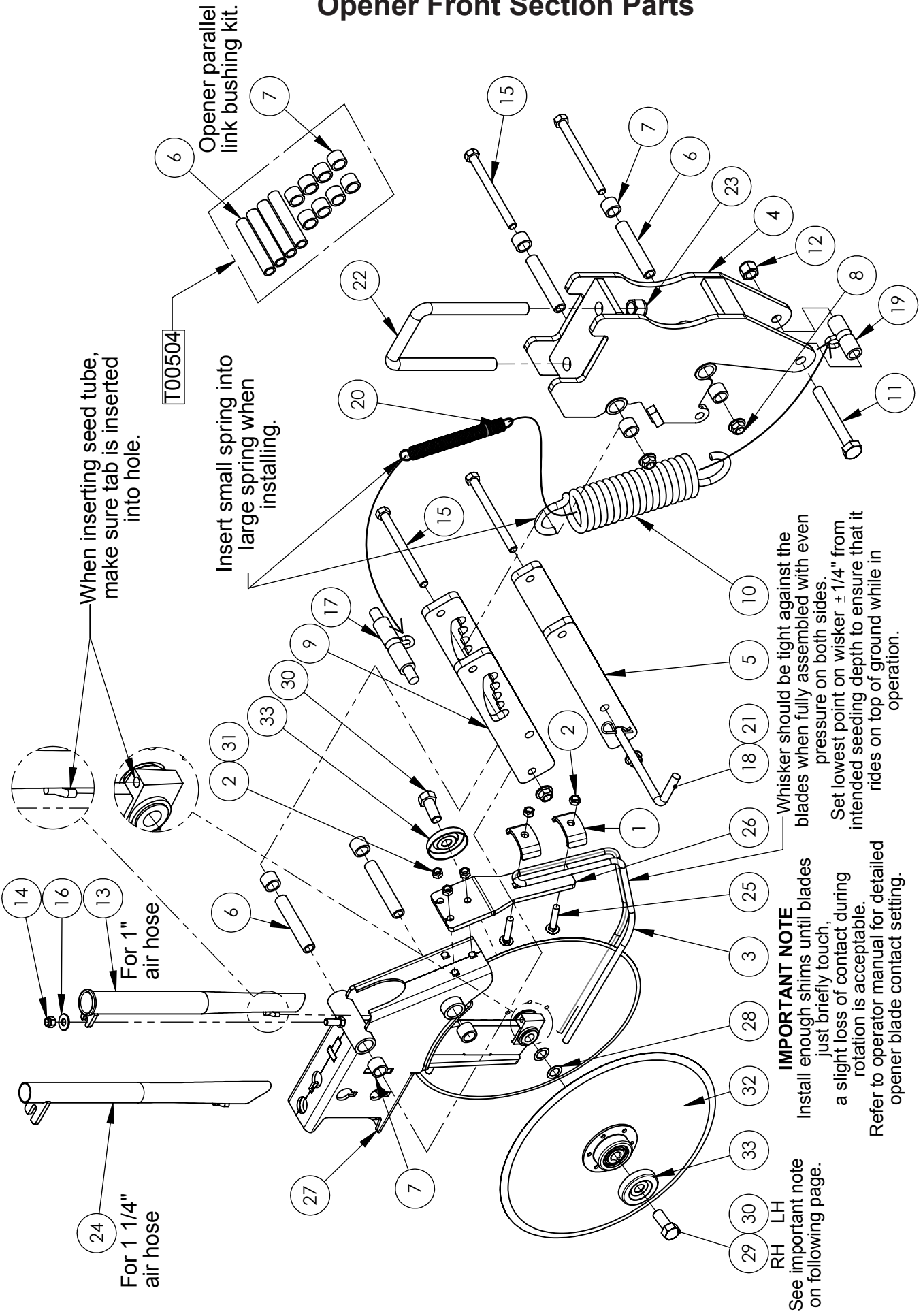
Most openers will mount using u-bolts.



Use bolts and pull-up plates where opener is mounted under an axle beam.



Opener Front Section Parts



Whisker should be tight against the blades when fully assembled with even pressure on both sides.
Set lowest point on whisker $\pm 1/4$ " from intended seeding depth to ensure that it rides on top of ground while in operation.

IMPORTANT NOTE
Install enough shims until blades just briefly touch, a slight loss of contact during rotation is acceptable.
Refer to operator manual for detailed opener blade contact setting.

See important note on following page.
RH LH

Opener Front Section Parts

ITEM	QTY.	PART NO.	DESCRIPTION
1	2	L01253	OPENER WHISKER CLAMP
2	5	BN06S	3/8"-16NC STOVER LOCK NUT
3	1	T00930	WIRE WHISKER FOR SALFORD DOUBLE DISC OPENER
4	1	T01611	2012 MOUNTING WELDMENT
5	1	T00444	SALFORD OPENER BOTTOM PARALLEL LINK
6	4	ZD071086	OPENER PARALLEL LINK BUSHING
7	8	GBB100075075	1" x 3/4" x 3/4" LG. HARD BUSHING
8	4	BN08SF	1/2"-13NC FLANGE STOVER LOCK NUT GR. 8
9	1	T00461	SALFORD OPENER TOP PARALLEL LINK
10	1	GSE0720	7/16" WIRE x 20 COILS 2 HOOK TAPERED SPRING
11	1	B1050	5/8 x 5" HEX BOLT
12	1	BN10L	5/8" NYLOCK NUT NC
13	1	T00464	SALFORD OPENER SEED TUBE
14	1	BN06L	3/8"-16NC LOCK NUT
15	4	B0860	1/2" UNC x 6" LG HEX BOLT GR.5 PLATED
16	1	BF06	3/8" FLATWASHER
17	1	T00450	TOP SPRING TENSION ROD
18	1	T00501	1/2" x 9" BLANK LENGTH L-PIN
19	1	T00460	LOWER SPRING TENSION BUSHING
20	1	GSE0173	OPENER INSIDE SPRING
21	1	GHP11	#11 HAIR PIN
22	1	BU1246	U-BOLT 3/4" x 4" x 7 1/2" LG.
23	2	BN12L	3/4" NC NYLOCK NUT
24	1	T01366	OPENER SEED TUBE FOR 1 1/4" HOSE
25	2	BC0620	3/8"NC x 2" CARRIAGE BOLT GR.2 PLATED
26	1	FL01703	2012 DISC OPENER GUARD/RND WHISKER MOUNT
27	1	T01533	SALFORD OPENER MAIN BODY
28	4	GM10	5/8" ID x 1" OD x .020 THICK SHIM
29	1	B1015	5/8 X 1 1/2" PLATED BOLT
30	1	B1015L	5/8" - 11NC x 1 1/2" LH THREAD HEX BOLT
31	3	BC0612	3/8" NC X 1 1/4" CARRIAGE BOLT GR2 PLATED
32	2	CT501540H	15" x 4MM SALFORD DBL/BEVEL BEARING BLADE
33	2	T01615	304 BEARING HUB CAP W/5/8" HOLE

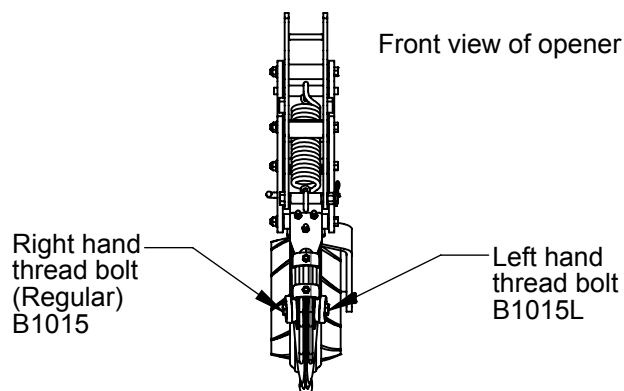
NOTE:

Part number T00504 is a hard bushing replacing kit for opener

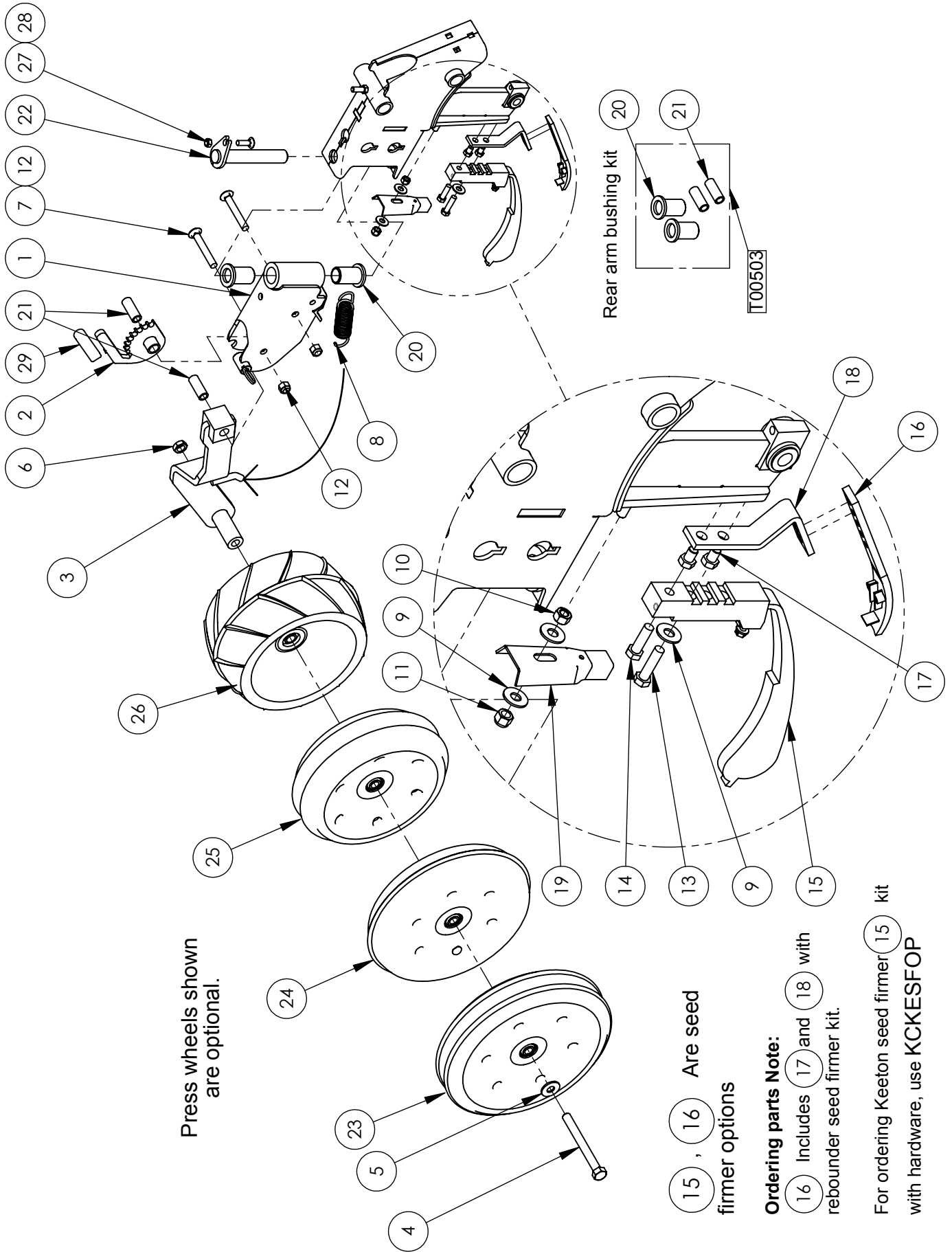
IMPORTANT NOTE:

The disc mounting bolts supplied are:
right-hand thread (Regular)
and left-hand thread

**BOLTS MUST BE INSTALLED ON
THEIR PROPER SIDE!!**



Opener Rear Section Parts



Press wheels shown are optional.

15 , 16 Are seed firmer options

Ordering parts Note:

16 Includes 17 and 18 with rebounder seed firmer kit.

For ordering Keeton seed firmer 15 kit with hardware, use KCKESFOP

Opener Rear Section Parts

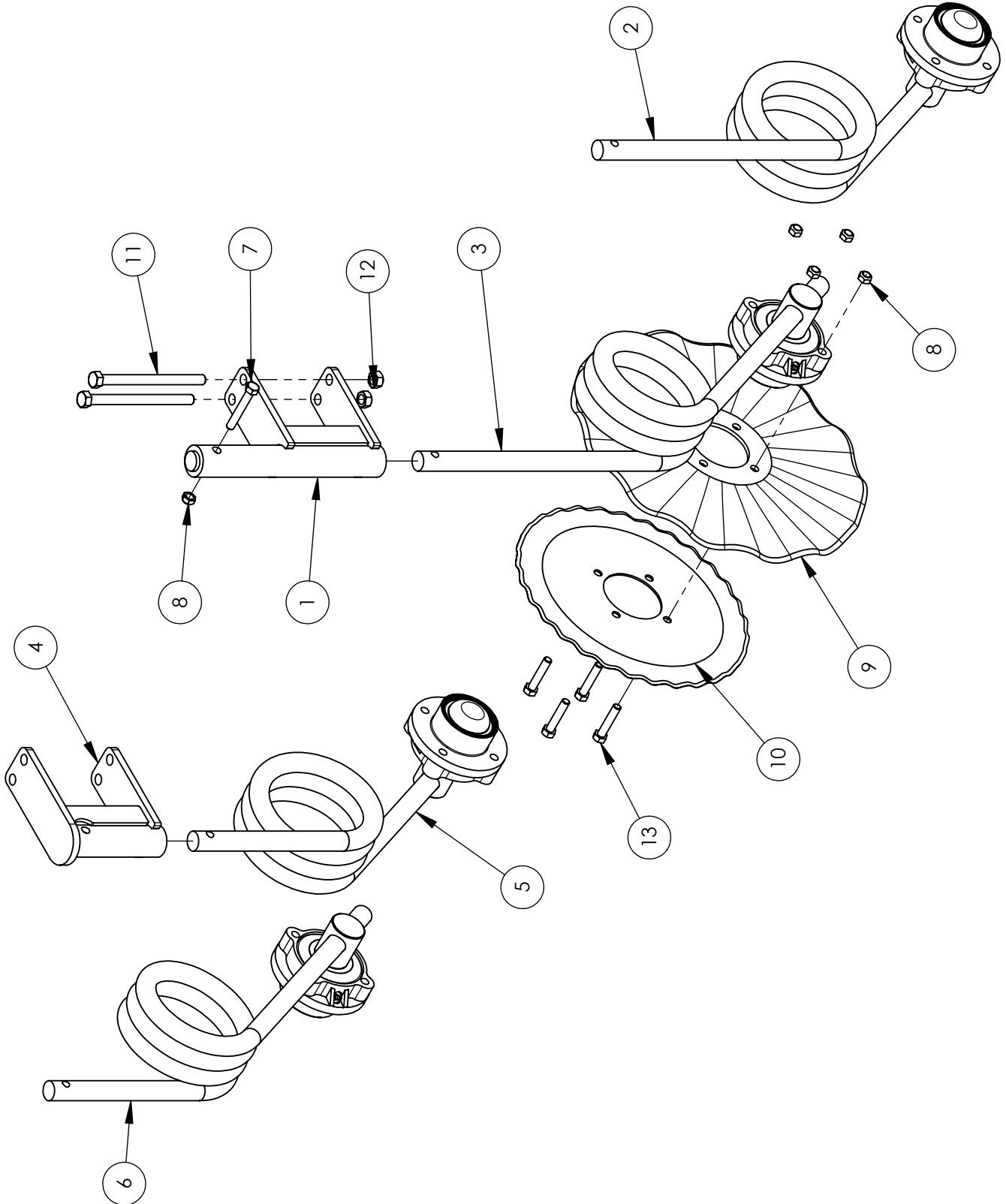
ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00445	REAR PACKER WHEEL MOUNT
2	1	T00452	REAR PACKER WHEEL ADJUSTER
3	1	T00446	REAR PACKER WHEEL ARM
4	1	B1060	5/8"NC x 6" LG. HEX BOLT
5	1	BF10	5/8" FLAT WASHER
6	1	BN10J	5/8"NC JAM NUT GR. 5
7	2	BC0835H	1/2" X 13NC X 3-1/2" LG. CARRIAGE BOLT GR. 5 SHORT THREAD
8	1	C1071	2 HOOK CLEVIS SPRING 6" FL 1 1/4" OD
9	3	BF06	3/8" FLATWASHER
10	1	BN06	3/8 " LOCKNUT
11	1	BN06L	3/8"-16NC LOCK NUT
12	2	BN08L	1/2" NYLOCK NUT NC
13	1	B0615	3/8" X 1 1/2" LG. GRADE 5
14	1	B0612	3/8" X 1 1/4" LG. GRADE 5
15	1	T00403	KEETON SEED FIRMER FOR 15" BLADE
16	1	T01398	REBOUNDER SEED FIRMER
17	2	B0605	3/8" X 1/2" LG. GRADE 5 HEX BOLT
18	1	T01399	REBOUNDER SEED FIRMER BRACKET
19	1	T00574	SEED FIRMER/SCRAPER BRACKET
+ 20	2	A60018	NYLATRON SHOULDER BUSHING
+ 21	3	R0030	NYLON BUSHING 3/4" OD x 1/2" ID x 1.94 LG.
22	1	GP16060F	1" x 6" FLATBAR PIN FOR OPENER
23	1	T00463	3" x 13" DOUBLE RIB PACKER WHEEL
24	1	T00462	13" x 3" SINGLE RIB PACKER WHEEL
25	1	T00662	4" x 12" DOUBLE RIB PACKER WHEEL
26	1	T00663	6 1/2" x 12" SMOOTH SEMI-PNEUMATIC PRESS WHEEL
27	1	BN06S	3/8"-16NC STOVER LOCK NUT
28	1	BC0612	3/8" NC X 1 1/4" CARRIAGE BOLT GR2 PLATED
29	1	T00728	OPENER PACKER WHEEL HANDLE

NOTE:

Item Part number T00503 is rebuild kit for a rear packer wheel arm bushings

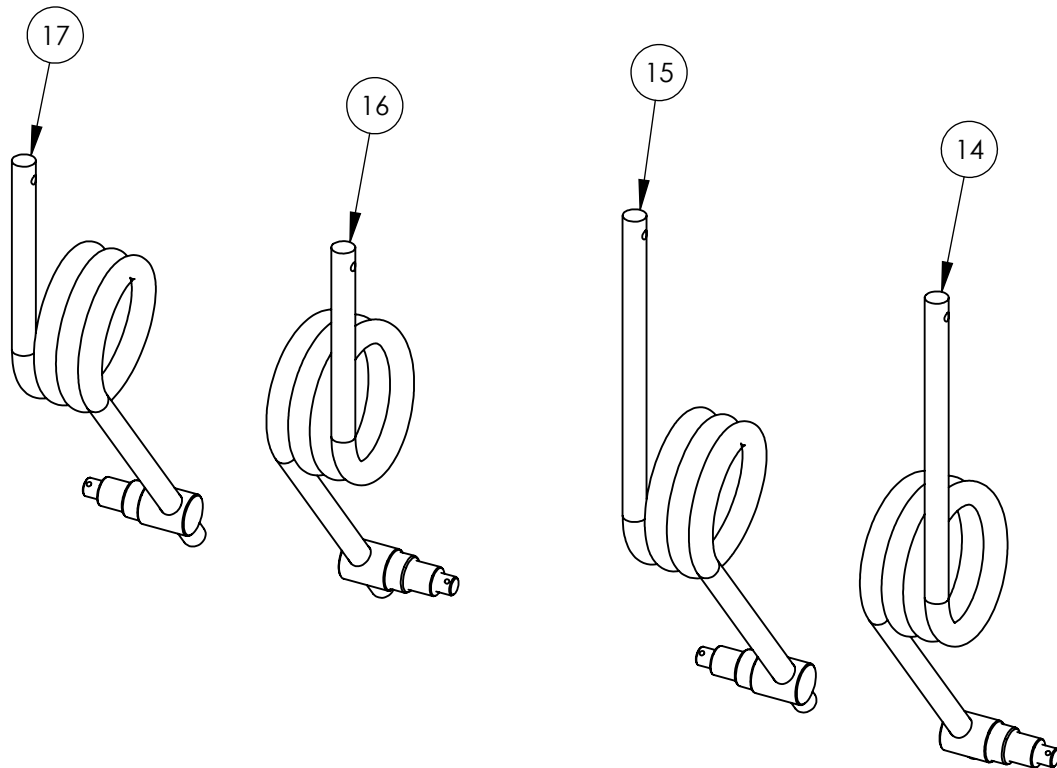
+ Included in T00503 rebuild kit

Coil-Tech Coulters



Coil-Tech Coulters

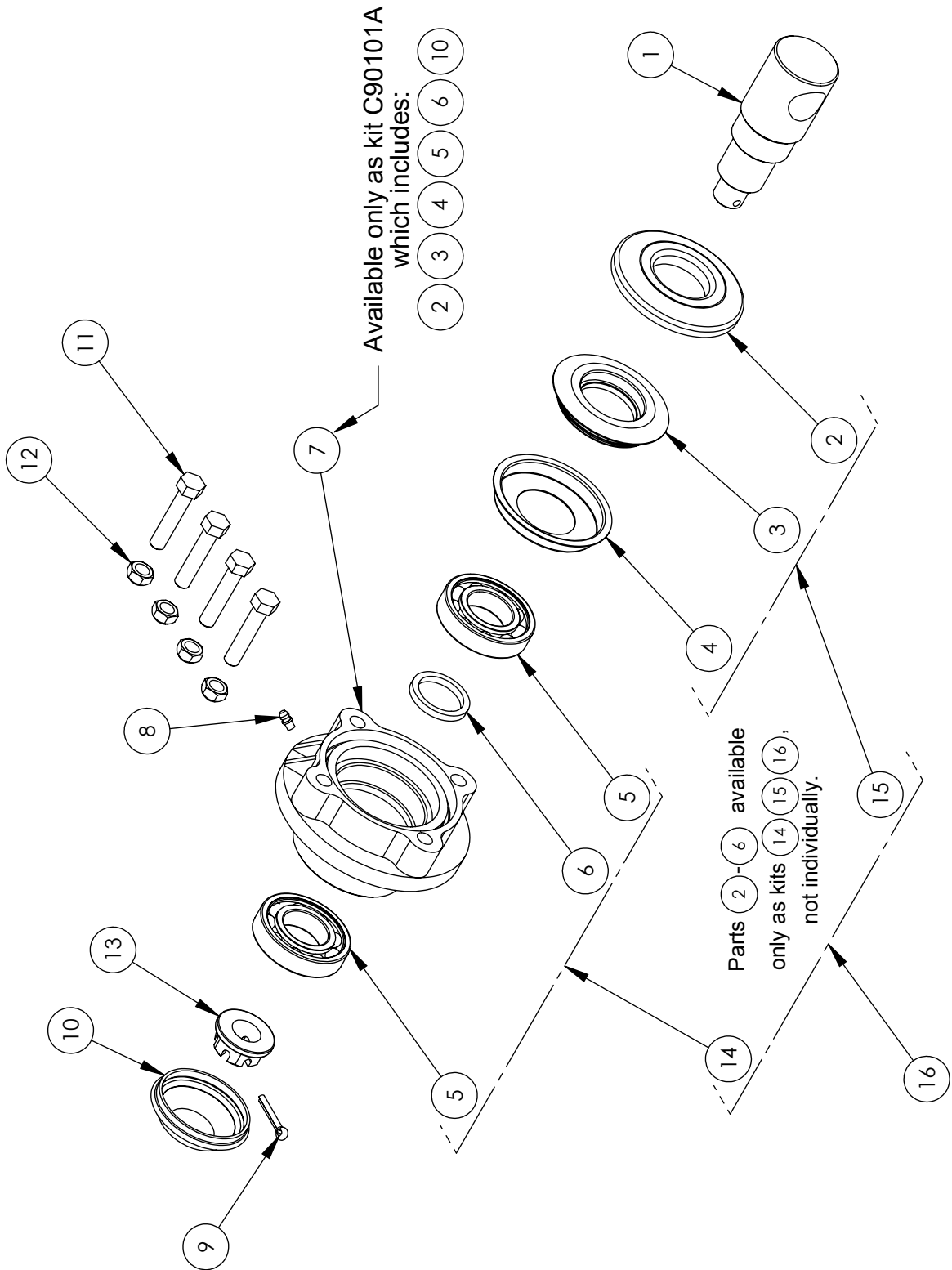
ITEM	QTY	PART NO.	DESCRIPTION
1	1	C90324	525 TALL COIL-TECH COULTER MOUNT
2	1	A8050LWA	LEFT COIL WITH SPINDLE AND HUB
3	1	A8050RWA	RIGHT COIL WITH SPINDLE AND HUB
4	1	C90325	525 SHORT COIL-TECH COULTER MOUNT
5	1	C90326LWA	525 SHORT LEFT COIL WITH SPINDLE AND HUB
6	1	C90326RWA	525 SHORT RIGHT COIL WITH SPINDLE AND HUB
7	1	B0832ST	1/2"-13NC x 3 1/4" SHORT THREAD BOLT
8	5	BN08S	1/2"-13NC STOVER LOCK NUT
9	1	CT512013	COIL-TECH COULTER 20" 13 WAVE 3/4" WAVE
10	1	CT5016R	16" RIPPLED COULTER BLADE
11	2	B1080	5/8 NC X 8 HEX BOLT GR.5 PLATED
12	2	BN10S	5/8" NC STOVER LOCK NUT
13	4	B0825	1/2" NC x 2 1/2" LG. HEX BOLT GR. 5
14	1	A8050LW	LEFT COIL-TECH SPRING AND SPINDLE
15	1	A8050RW	RIGHT COIL-TECH SPRING AND SPINDLE
16	1	C90326LW	525 SHORT LEFT COIL WITH SPINDLE
17	1	C90326RW	525 SHORT RIGHT COIL WITH SPINDLE



Coil-Tech Hub



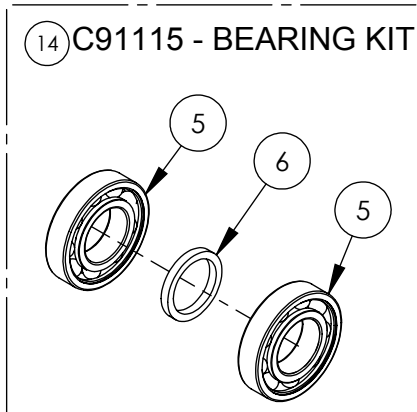
IMPORTANT
TIGHTEN SPINDLE NUT TO 70ft-Lbs
DO NOT BACK OFF AFTER TIGHTENING



Coil-Tech Hub

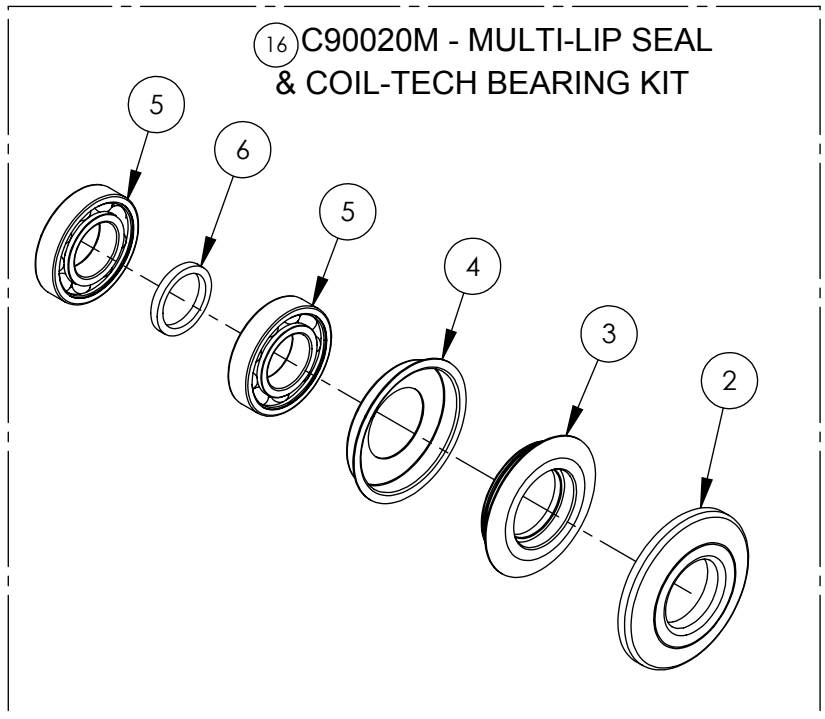
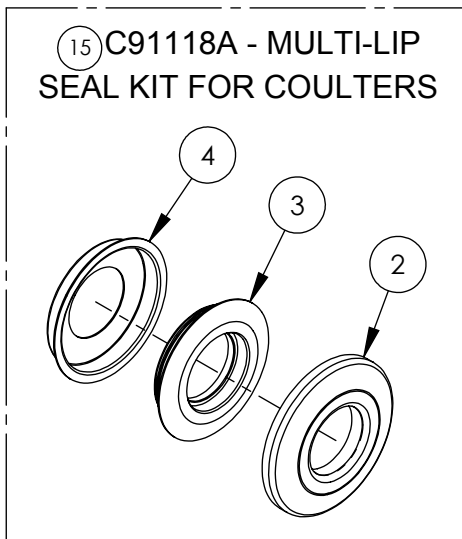
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	C90105	COIL-TECH COULTER SPINDLE FOR CAST HUB
2	1	-	GRASS WRAP GUARD
3	1	-	SEAL, GREASE AND DIRT
4	1	-	SEAL COUNTERFACE
5	2	-	6208 BEARING
6	1	-	RTS COULTER BEARING SPACER
7	1	-	CAST COIL-TECH COULTER HUB
8	1	GF641	1/4"-28NF GREASE FITTING
9	1	BSC0415	1/4" x 1 1/2" COTTER PIN
10	1	C90102	DUST CAP
11	4	B0825	1/2" x 2 1/2" HEX BOLT
12	4	BN08S	1/2"-13NC STOVER LOCK NUT
13	1	BN16FCH	1"-14NF FLANGED CASTLE NUT GR. 8
14	-	C91115	COIL-TECH COULTER BEARING KIT
15	-	C91118A	MULTI-LIP SEAL KIT FOR COULTER HUBS
16	-	C90020M	MULTI-LIP SEAL & COIL-TECH BEARING KIT

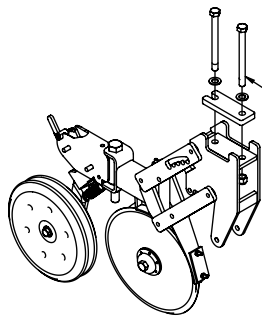
Parts (2) - (6) available
 only as kits (14) (15) (16),
 not individually.



IMPORTANT

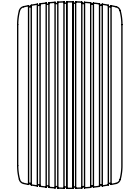
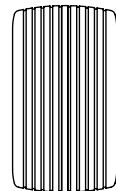
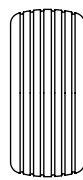
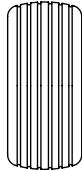
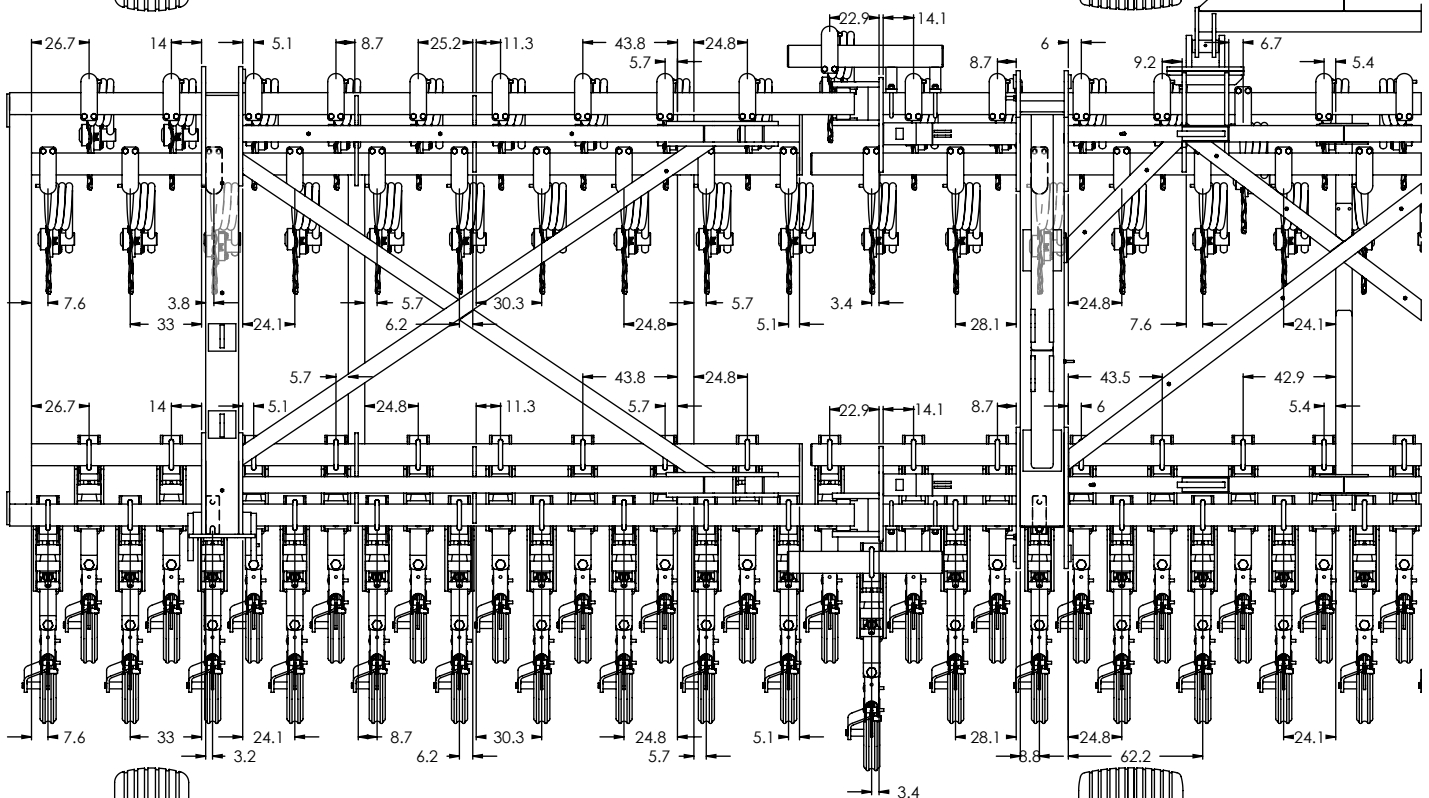
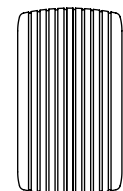
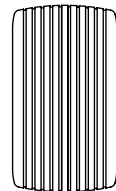
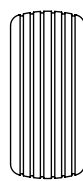
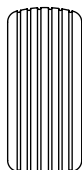
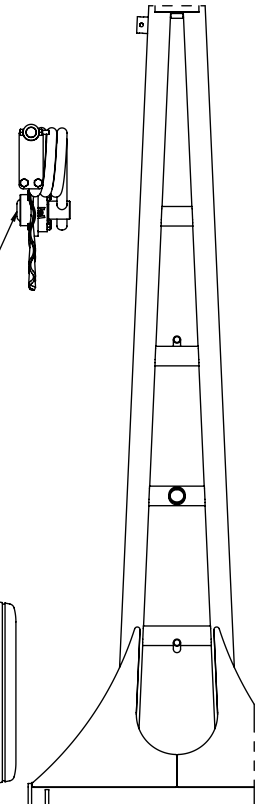
TIGHTEN SPINDLE NUT TO **70ft-Lbs**
 DO NOT BACK OFF AFTER TIGHTENING





Coulters hubs point to
outsides of machine -
start in middle of machine

Openers under axle beams
mount using bolts and pull-up
plates - see opener installation
for details - 4 places



525-40' - 64 COULTERS AND OPENERS ON 7.5" SPACING

Dimensions are in cm

Note: coulters positions shown are centered on seed row. If offset is desired, change mounting dimension to one side or the other by the desired amount.

All mounts are short

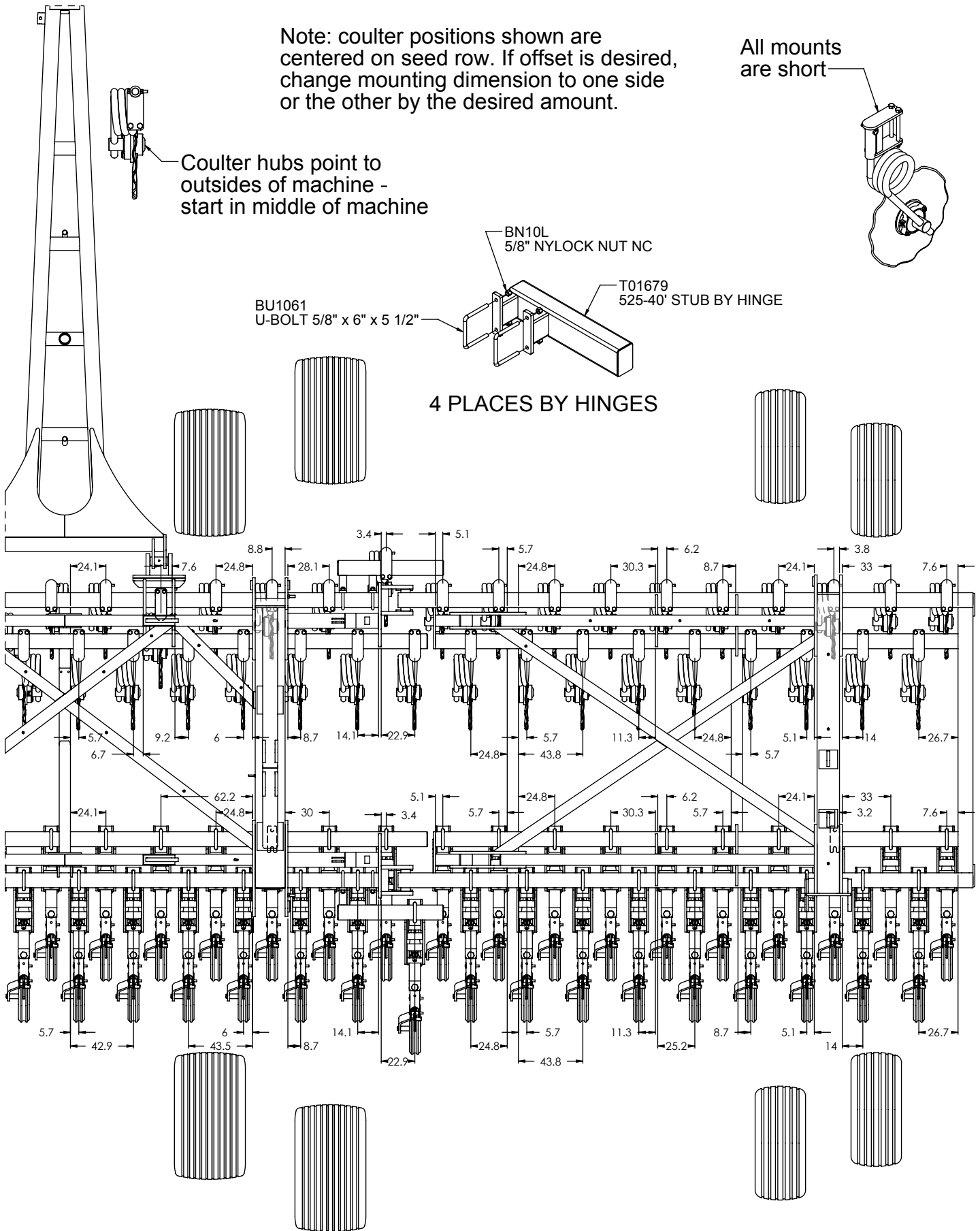
Coulters hubs point to outsides of machine - start in middle of machine

BU1061 U-BOLT 5/8" x 6" x 5 1/2"

BN10L 5/8" NYLOCK NUT NC

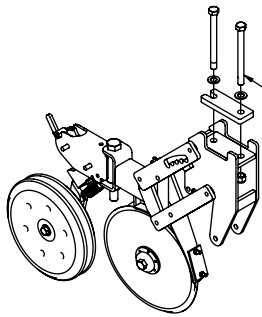
T01679 525-40' STUB BY HINGE

4 PLACES BY HINGES

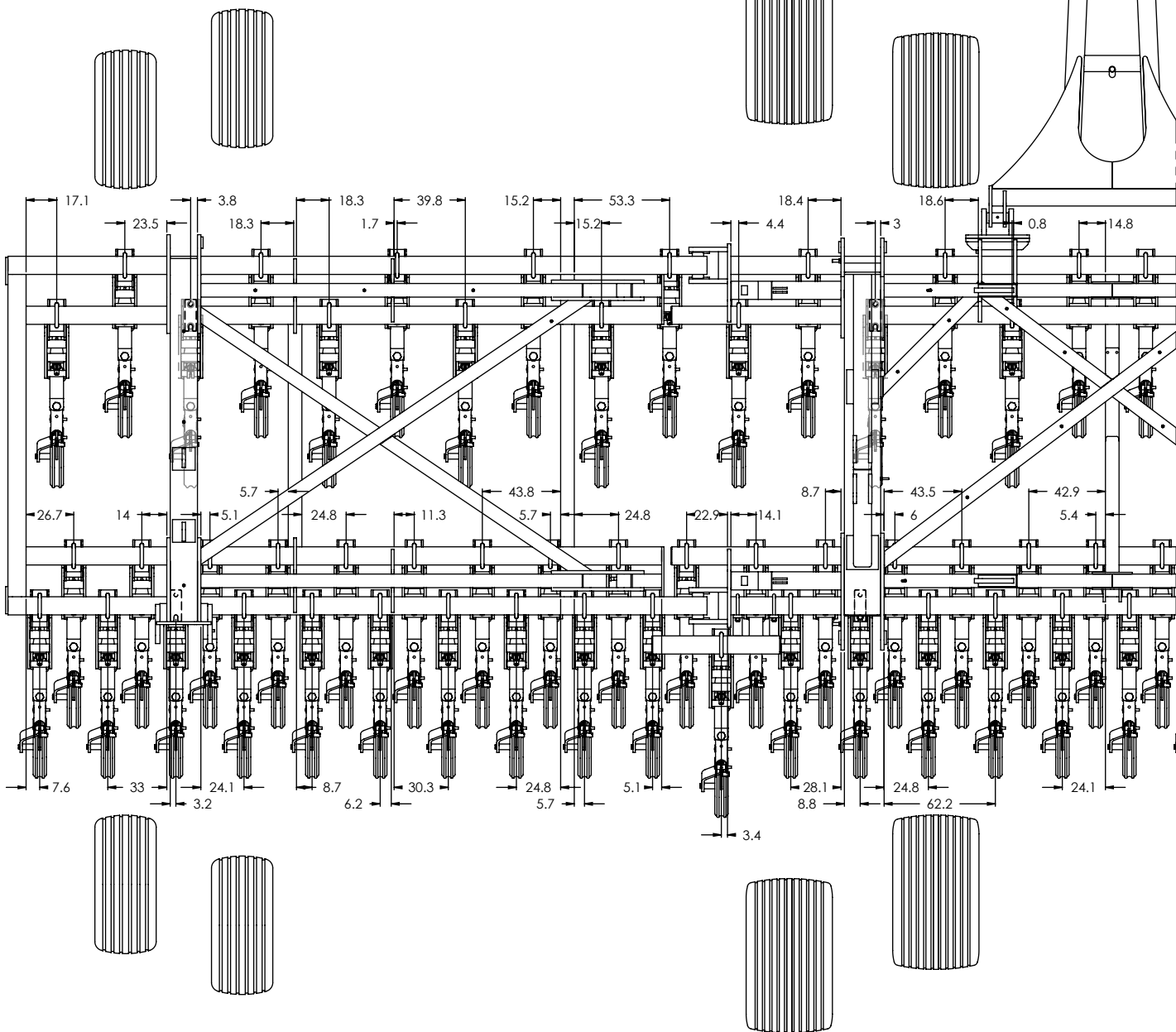


525-40' - 64 COULTERS AND OPENERS ON 7.5" SPACING

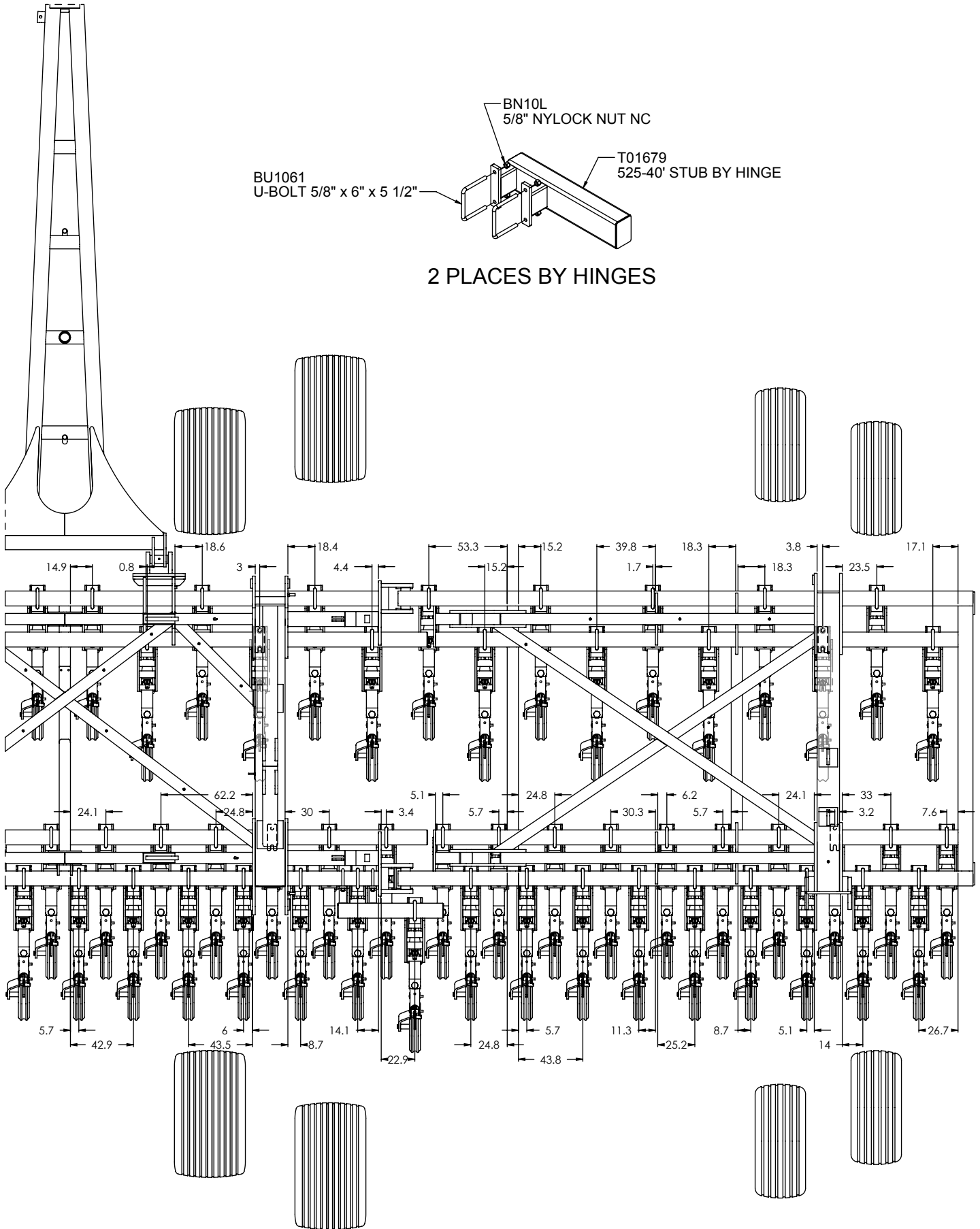
Dimensions are in cm



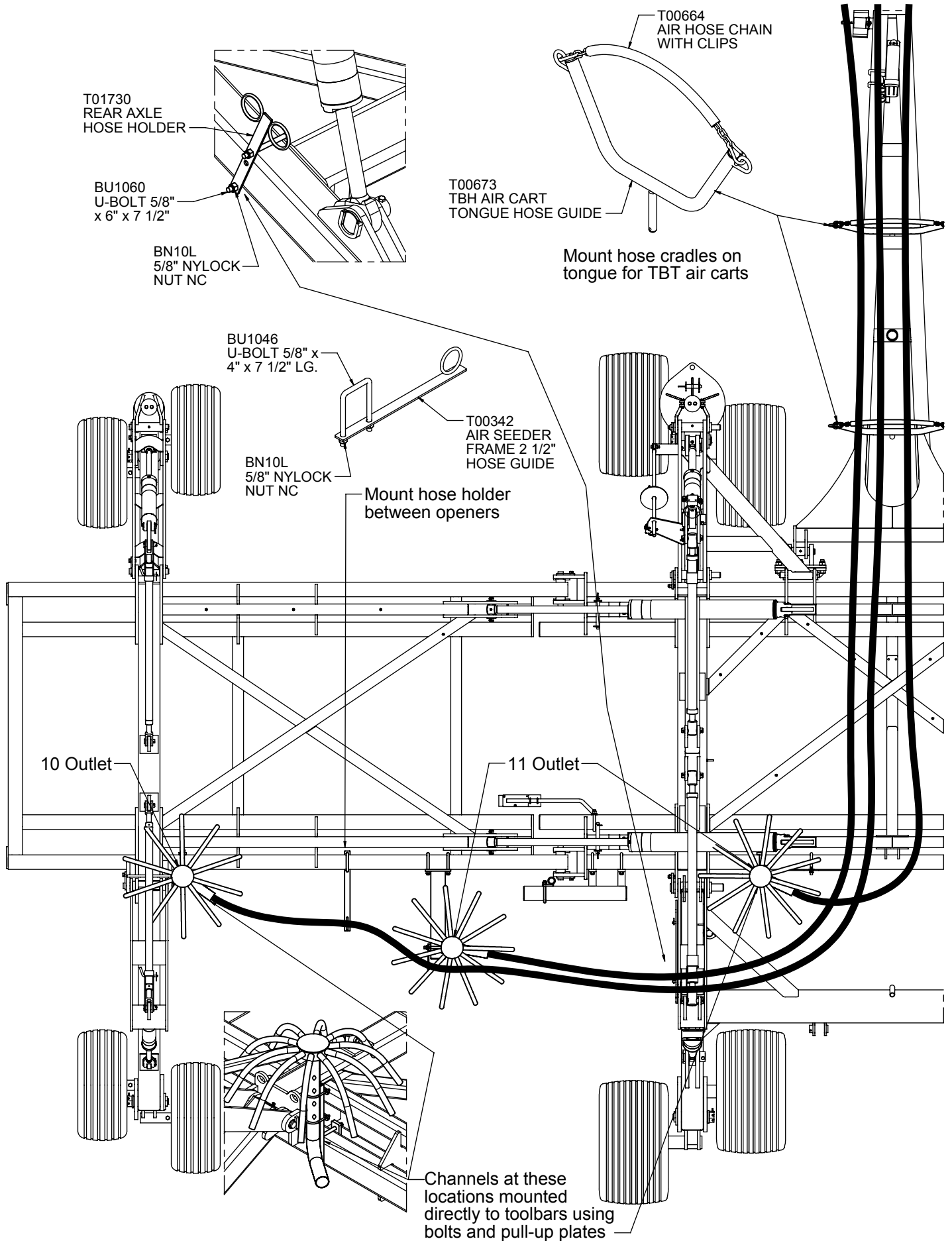
Openers under axle beams
mount using bolts and pull-up
plates - see opener installation
for details - 8 places



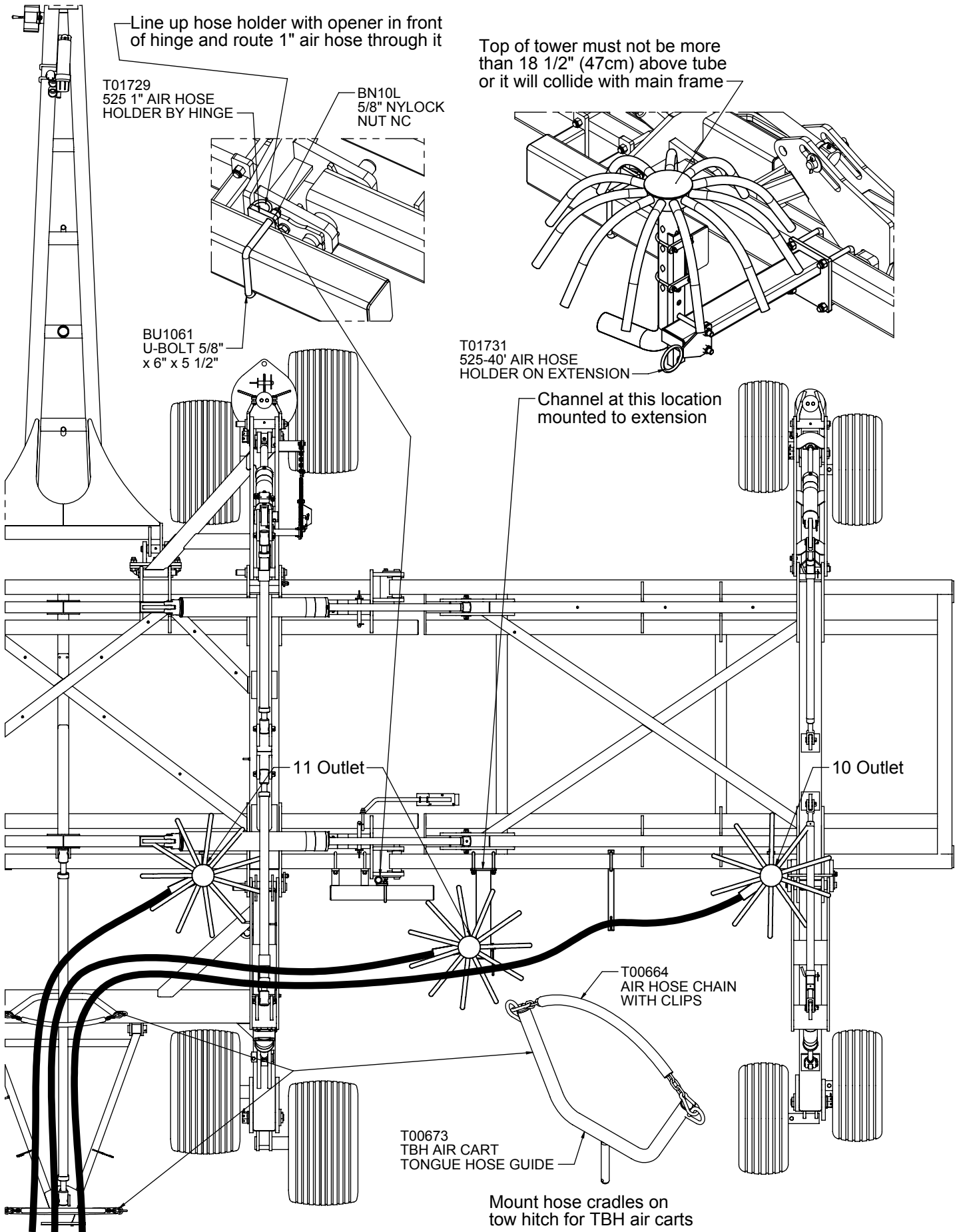
525-40' - 64 OPENERS ON 7.5" SPACING
32 MID-ROW FERTILIZER OPENERS ON 15" SPACING
 Dimensions are in cm



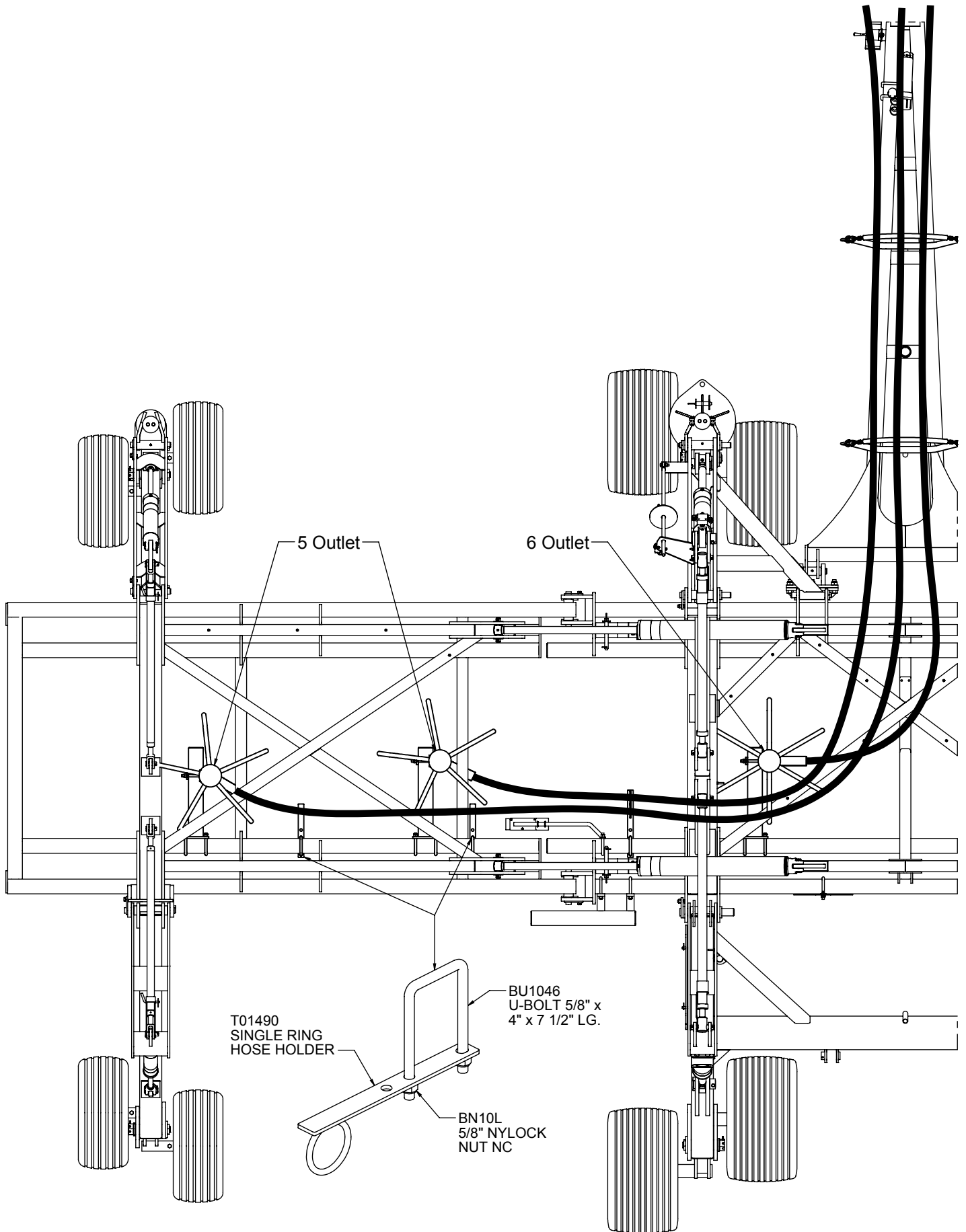
525-40' - 64 OPENERS ON 7.5" SPACING
32 MID-ROW FERTILIZER OPENERS ON 15" SPACING
 Dimensions are in cm



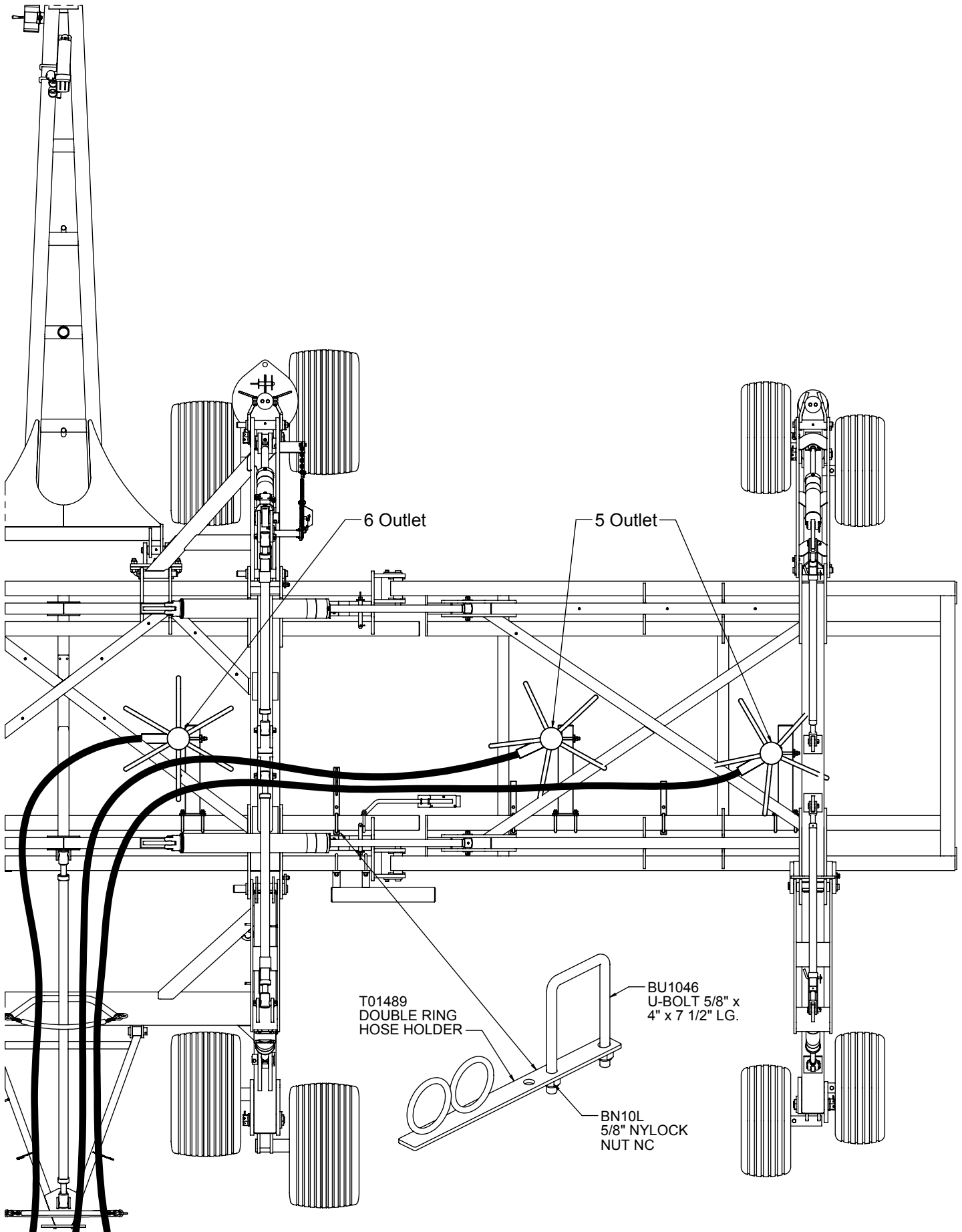
525-40' OPENER AIR DISTRIBUTION - TBT CARTS



525-40' OPENER AIR DISTRIBUTION - TBH AIR CARTS

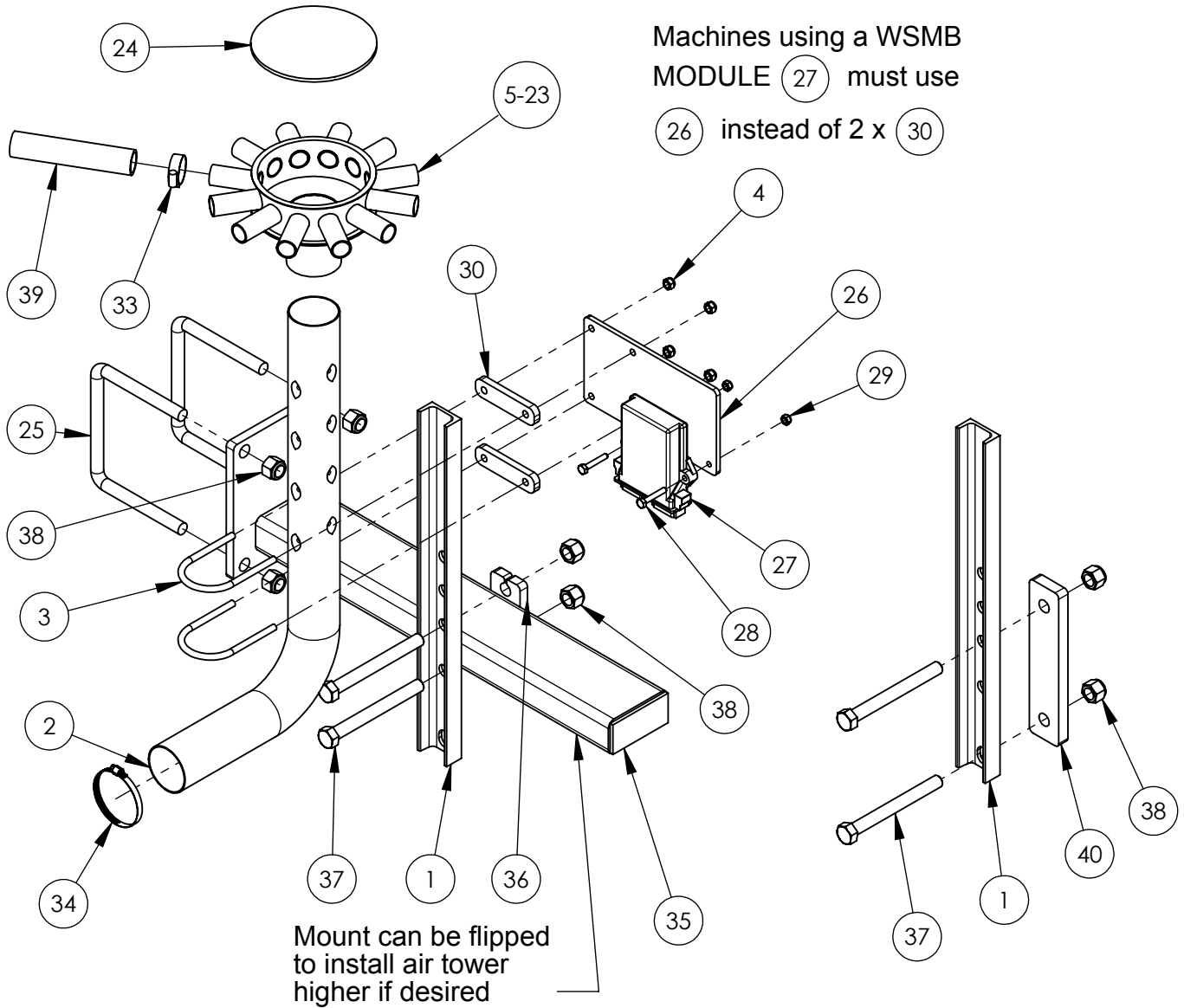


525-40' MIDROW FERTILIZER AIR DISTRIBUTION - TBT CARTS

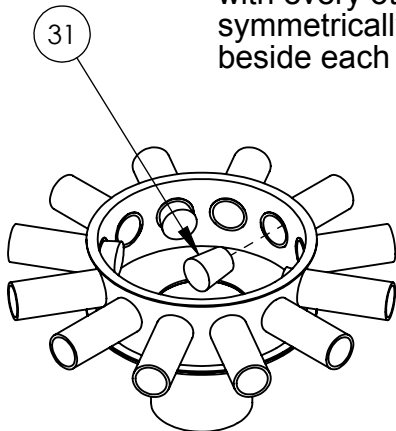


525-40'MIDROW FERTILIZER AIR DISTRIBUTION - TBH AIR CARTS

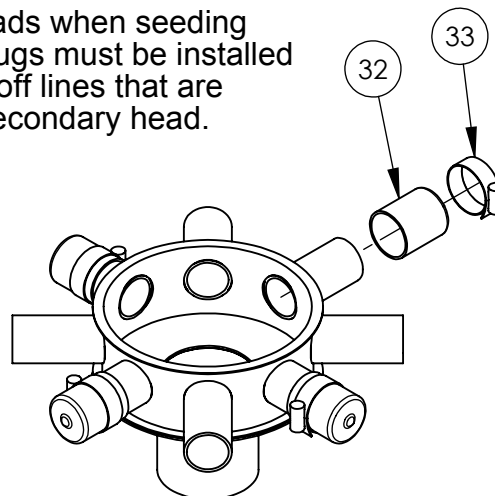
Air Distribution Parts



Use plugs in secondary heads when seeding with every other opener. Plugs must be installed symmetrically - don't block off lines that are beside each other on the secondary head.



For 1" lines



For 1 1/4" lines

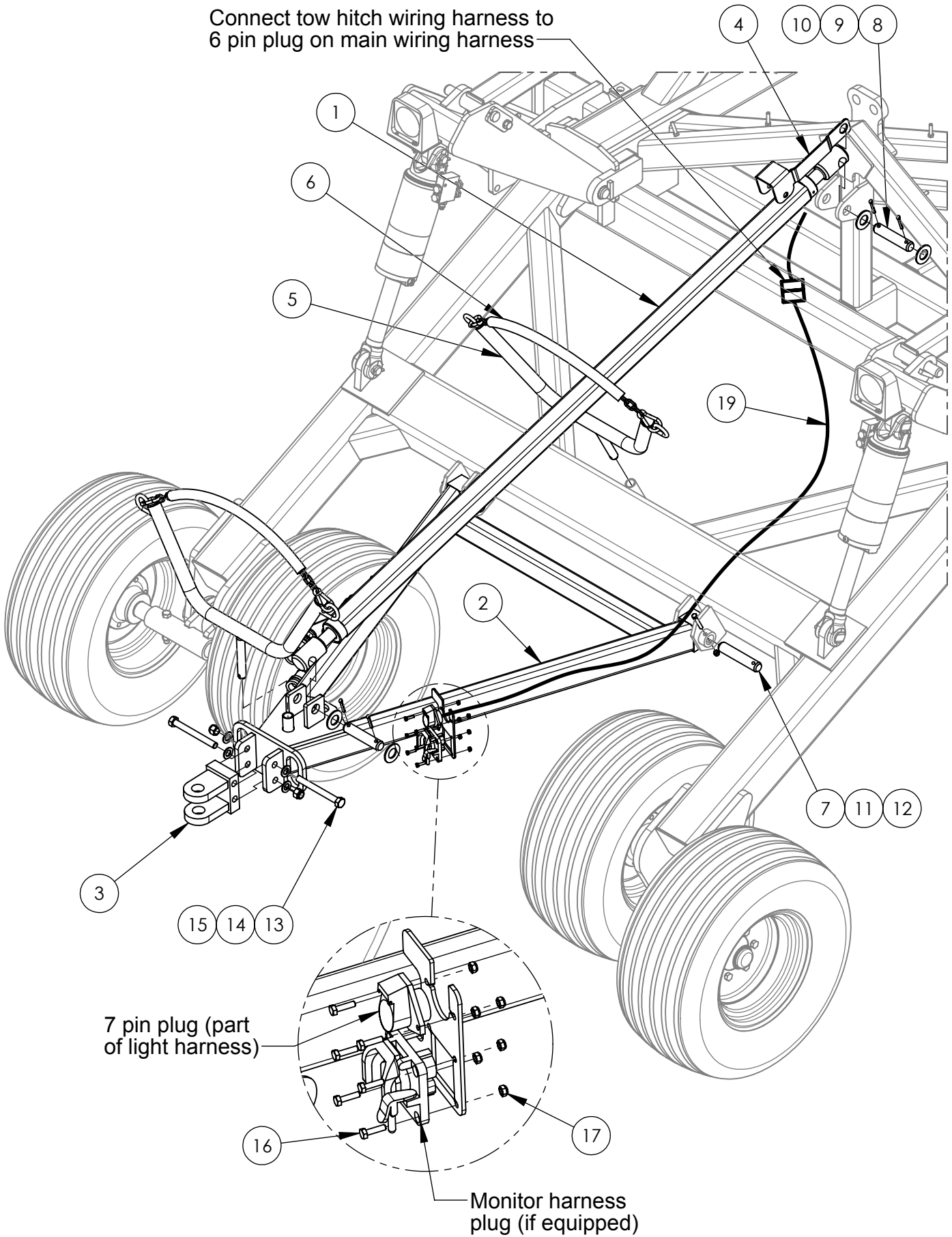
Air Distribution Parts

ITEM	PART NO.	DESCRIPTION
1	T00438	SECONDARY RISER MOUNT
2	T00031	AIR SEEDER RISER
3	BUR052545	5/16 x 2 1/2 x 4 1/2" ROUND U-BOLT
4	BN05L	5/16" LOCK NUT
5	T01335	SECONDARY HEAD - 5 OUTLET - 1"
6	T01346	SECONDARY HEAD - 6 OUTLET - 1"
7	T01347	SECONDARY HEAD - 7 OUTLET - 1"
8	T00440	SECONDARY HEAD - 8 OUTLET - 1"
9	T00441	SECONDARY HEAD - 9 OUTLET - 1"
10	T00398	SECONDARY HEAD - 10 OUTLET - 1"
11	T00435	SECONDARY HEAD - 11 OUTLET - 1"
12	T00032	SECONDARY HEAD - 12 OUTLET - 1"
13	T00333	SECONDARY HEAD - 13 OUTLET - 1"
14	T00640	SECONDARY HEAD - 14 OUTLET - 1"
15	T00641	SECONDARY HEAD - 15 OUTLET - 1"
16	T01177	SECONDARY HEAD - 5 OUTLET - 1 1/4"
17	T01178	SECONDARY HEAD - 6 OUTLET - 1 1/4"
18	T01351	SECONDARY HEAD - 7 OUTLET - 1 1/4"
19	T01168	SECONDARY HEAD - 8 OUTLET - 1 1/4"
20	T01169	SECONDARY HEAD - 9 OUTLET - 1 1/4"
21	T01348	SECONDARY HEAD - 10 OUTLET - 1 1/4"
22	T01349	SECONDARY HEAD - 11 OUTLET - 1 1/4"
23	T01350	SECONDARY HEAD - 12 OUTLET - 1 1/4"
24	T00036	SECONDARY HEAD CAP - RUBBER
25	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
26	L01122	1/4" x 5" x 9" WSMB MOUNTING PLATE
27	TDJ467981100S1	18 ROW WSMB MODULE
28	B0415	1/4" x 1 1/2" UNC HEX BOLT GR.5 PLATED
29	BN04L	1/4" LOCK NUT
30	L00660	3/8" x 1" x 4" BOLTING PLATE
31	CSP-23	1" TAPERED PLUG
32	GVC125-24	VINYL CAP 1 1/4" DIA. x 1 1/2" LG.
33	T00022	1" HOSE CLAMP (#16)
34	T00023	2 1/2" HOSE CLAMP (#48)
35	T00323	AIR SEEDER MAIN TOWER BASE
36	L00664	1/2" x 2" x 4" BOLTING PLATE
37	B1060	5/8"NC x 6" LG. HEX BOLT
38	BN10L	5/8" NYLOCK NUT NC
39	T00019-S	1" SPIRAL HOSE
40	L01075	5/8" x 2" x 9" BOLTING PLATE - 2 HOLE

Machines using a WSMB MODULE (27) must use (26) instead of 2 x (30)

Tow Hitch Assembly

Connect tow hitch wiring harness to 6 pin plug on main wiring harness

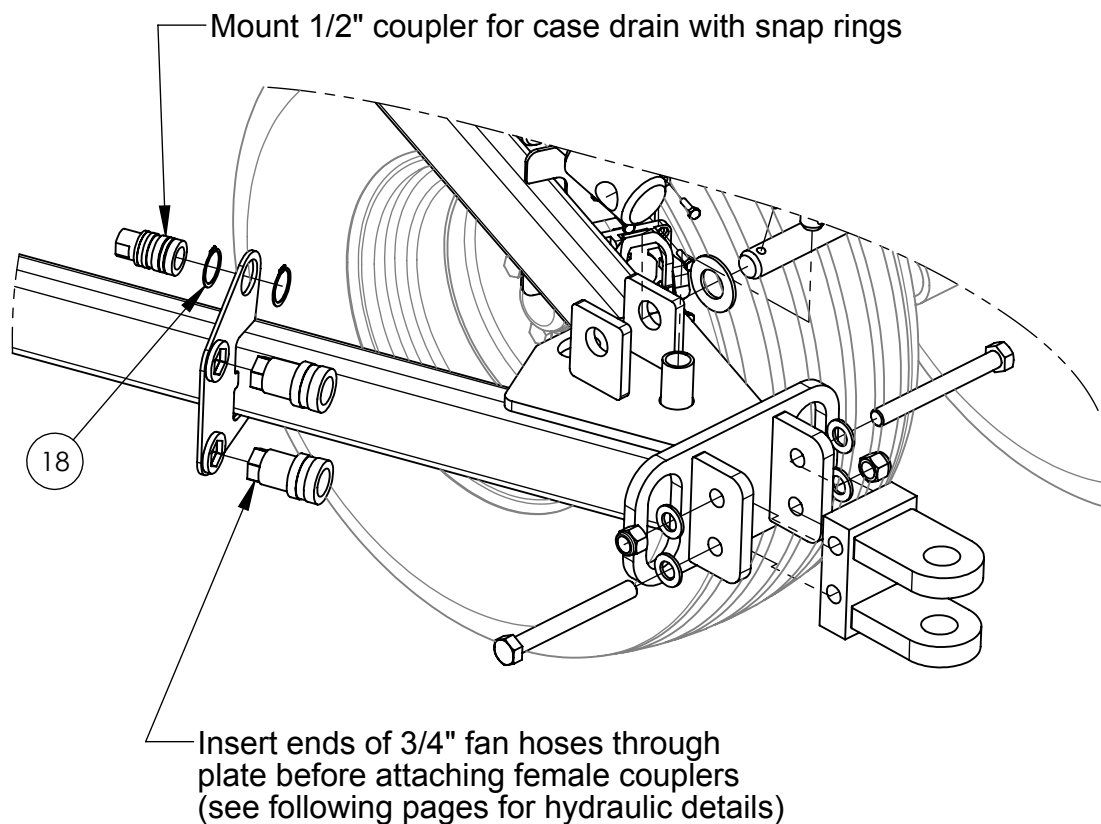


7 pin plug (part of light harness)

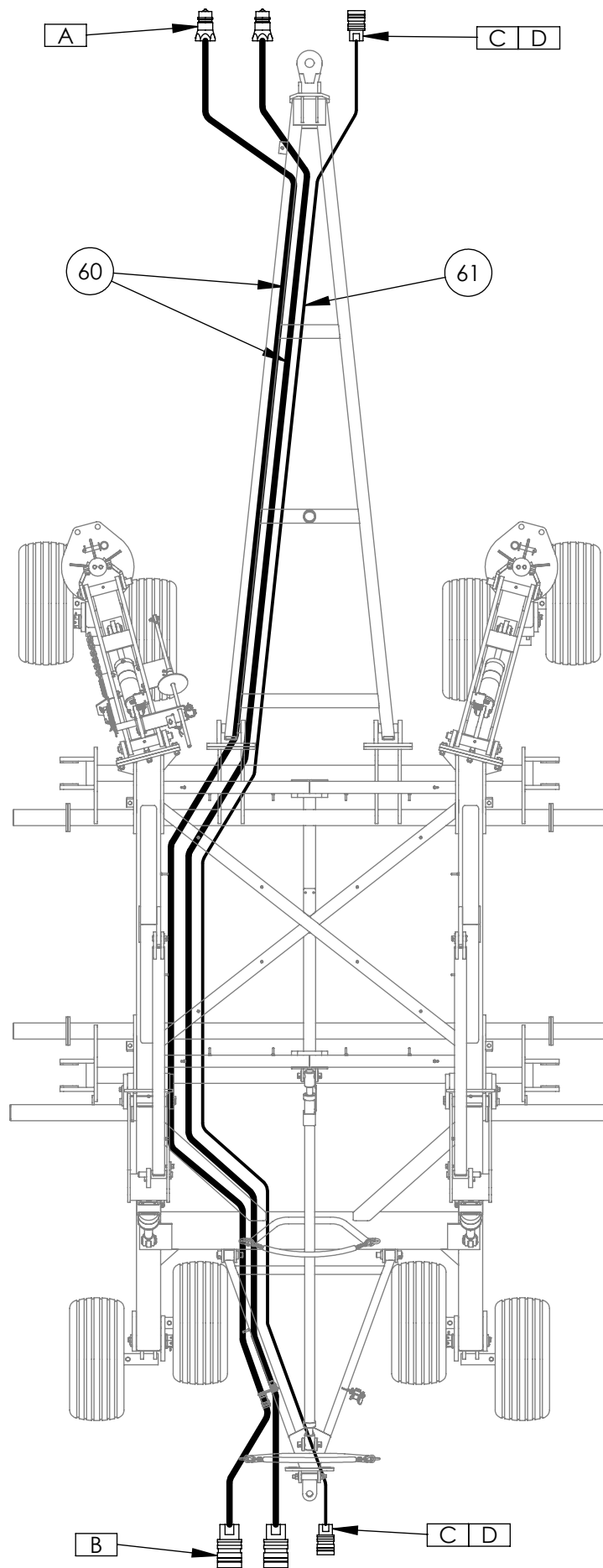
Monitor harness plug (if equipped)

Tow Hitch Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T01589	2 1/2" TURNBUCKLE - 84" LG. TUBE
2	1	T01637	525 TOW HITCH
3	1	T01658	AIR DRILL TOW HITCH CLEVIS
4	1	C10716	2 1/2" TURNBUCKLE LOCK
5	2	T00673	TBH AIR CART TONGUE HOSE GUIDE
6	2	T00664	AIR HOSE CHAIN WITH CLIPS - 34 1/2" LG.
7	2	GP2000612B06	1 1/4" x 6 1/2" LG. PIN - 1 HOLE
8	2	GPH20006A06	1 1/4" x 6" HARDENED PIN - 2 HOLES
9	4	BF20S	1 1/4" SAE WASHER
10	4	BSC0520	5/16" x 2" COTTER PIN
11	2	B0625	3/8" NC x 2 1/2" LG. HEX BOLT GR. 5
12	2	BN06L	3/8"-16NC LOCK NUT
13	2	B1270	3/4 X 7" HEX BOLT GR.5
14	4	BF12HS	3/4" HARD STRUCTURAL WASHER
15	2	BN12L	3/4" NC NYLOCK NUT
16	6	B0410	1/4" x 1" NC SS BOLT
17	6	BN04L	1/4" LOCK NUT
18	2	BR4100-150	1 1/2" RETAINING SNAP RING
19	1	T00771-1	AIR SEEDER ADD-ON HARNESS FOR TBH TANK



Tow Hitch Hydraulics

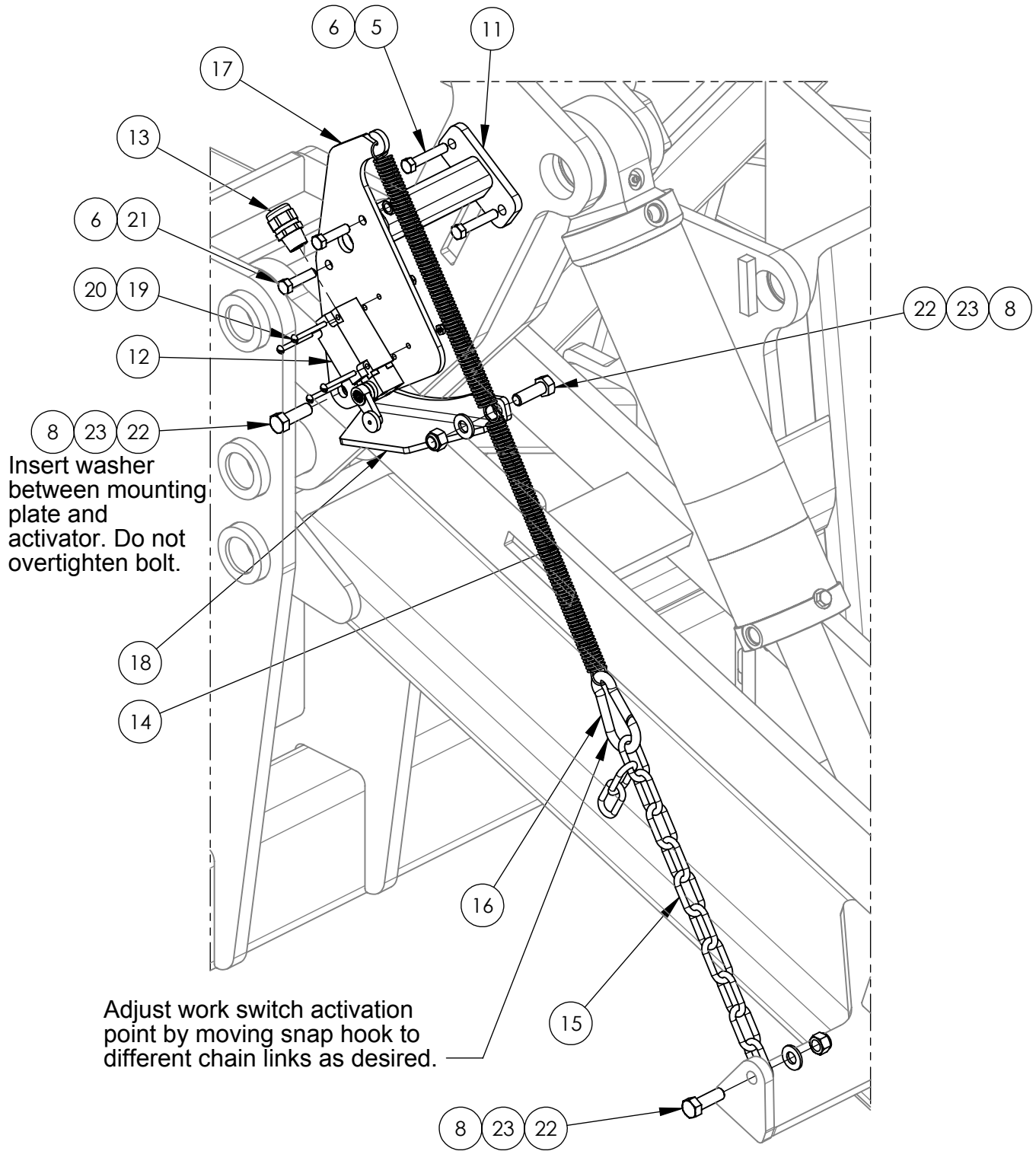


Tow Hitch Hydraulics

HARDWARE			
ITEM	QTY	PART NO.	DESCRIPTION
A	2	H6601	3/4" NPT 3/4" PIONEER FEMALE COUPLER
B	2	H8010-5	3/4" NPT PIONEER MALE TIP TO FIT 1/2" REMOTE
C	2	H42504P	1/2" NPT PIONEER FEMALE COUPLER
D	2	H52054	#5205-4C 1/2" PIONEER DUST PLUG
E	1	H5253040TH	525-30'40' HOSE KIT - TOW HITCH HYDRAULICS

HOSES					
LABEL	QTY	SIZE	LENGTH (in)	FROM	TO
60	2	3/4"	36'	TRACTOR EXTEND	MANIFOLD 'BASE'
61	1	1/2"	36'	TRACTOR RETRACT	BALL VALVE

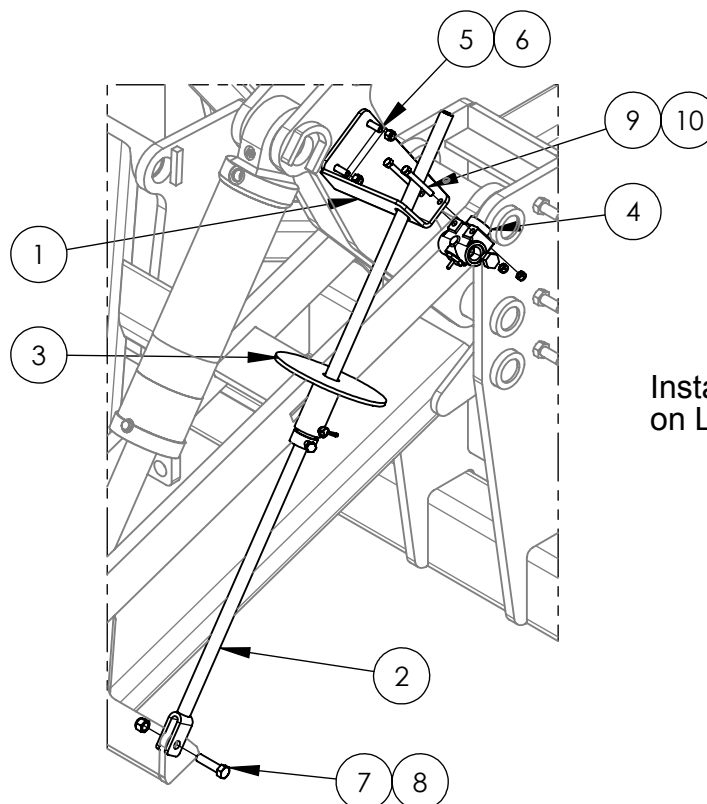
Depth Control and Work Switch Installation



Install work switch on RH main front axle.

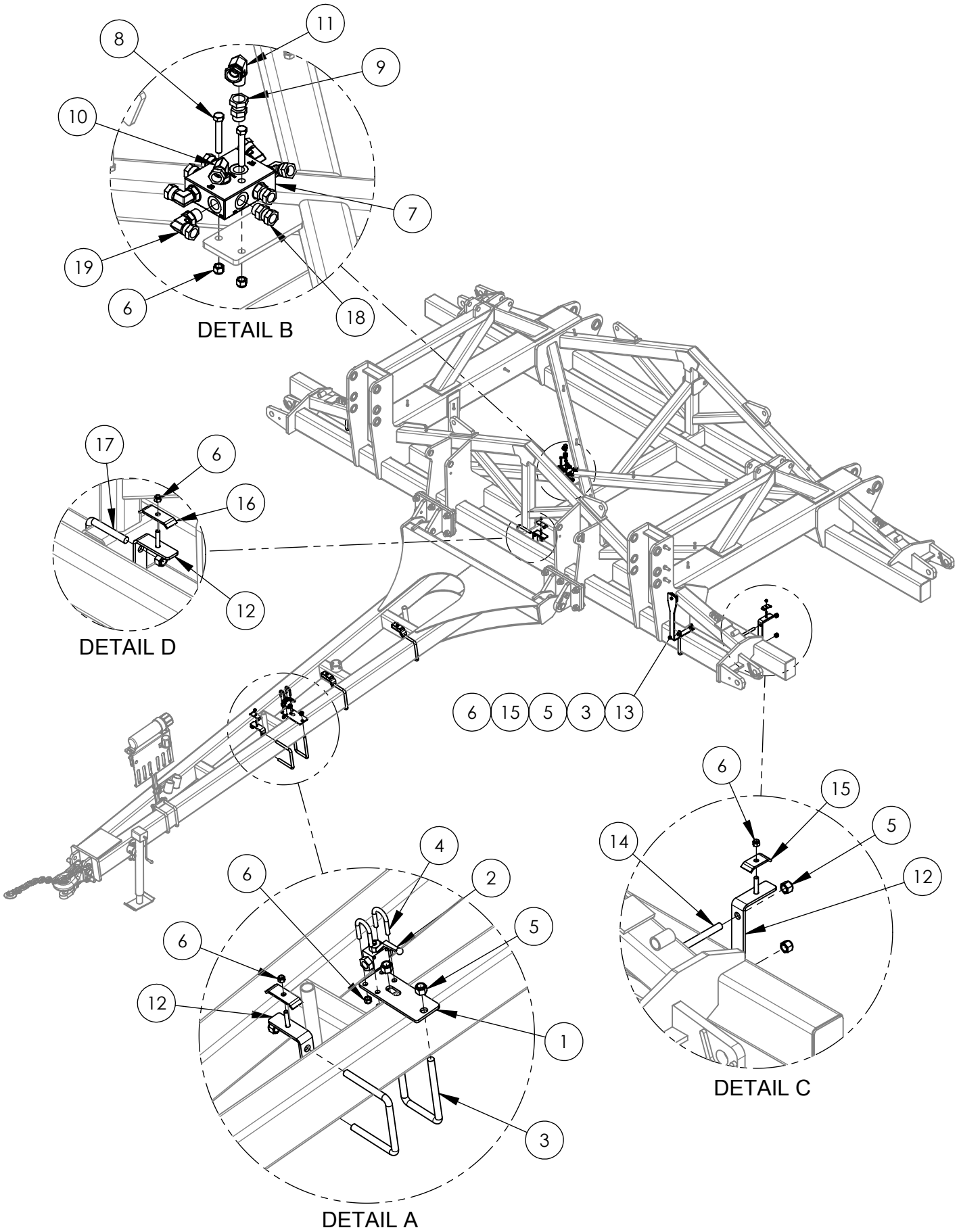
Depth Control and Work Switch Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	FL02065	525-60'/70' POPPET VALVE BRACKET
2	1	C10991	699 DEPTH CONTROL ROD
3	1	C1008	DEPTH CONTROL DISC ASSEMBLY
4	1	HPMSC10	STROKE CONTROL VALVE
5	4	B0620	3/8" UNC x 2" LG HEX BOLT GR. 5 PLATED
6	6	BN06L	3/8"-16NC LOCK NUT
7	1	B0820	1/2" NC x 2" LG. HEX BOLT GR. 5
8	4	BN08L	1/2" NYLOCK NUT NC
9	2	B0525	5/16 x 2 1/2" BOLT
10	2	BN05L	5/16" LOCK NUT
11	1	T01671	525-40' WORK SWITCH MOUNT
12	1	T00721	ROLLER ARM LIMIT SWITCH (LS45M42B11)
13	1	0708896	LIMIT SWITCH NUT
14	2	GSE0173	OPENER INSIDE SPRING
15	1	GCL08	18" LENGTH OF 1/2" PASSING LINK CHAIN
16	1	GCSH06	3/8" SPRING HOOK
17	1	FL01946	525 WORK SWITCH MOUNTING PLATE
18	1	FL01947	525 WORK SWITCH ACTUATOR
19	4	B0217	#10-24 x 1 3/4" MACHINE SCREW
20	4	BN02	#10-24 HEX NUT
21	2	B0615	3/8" NC x 1 1/2" LG. HEX BOLT GR.5
22	3	B0815	1/2" NC x 1 1/2" LG. HEX BOLT GR. 5
23	3	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER



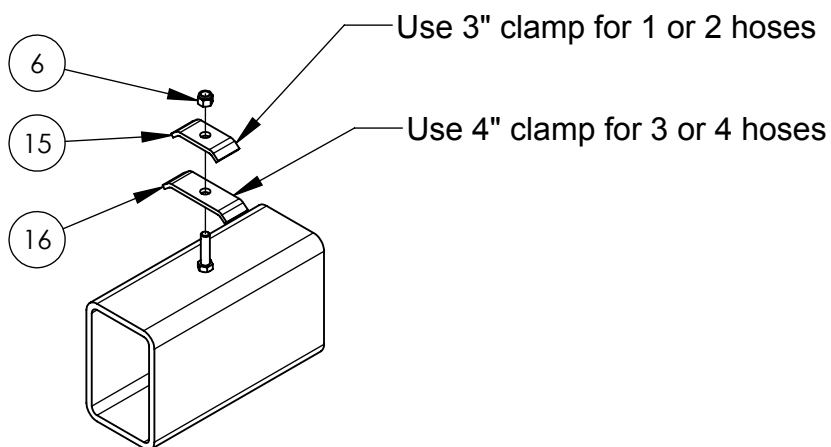
Install depth control
on LH main front axle.

Hydraulic Components Installation

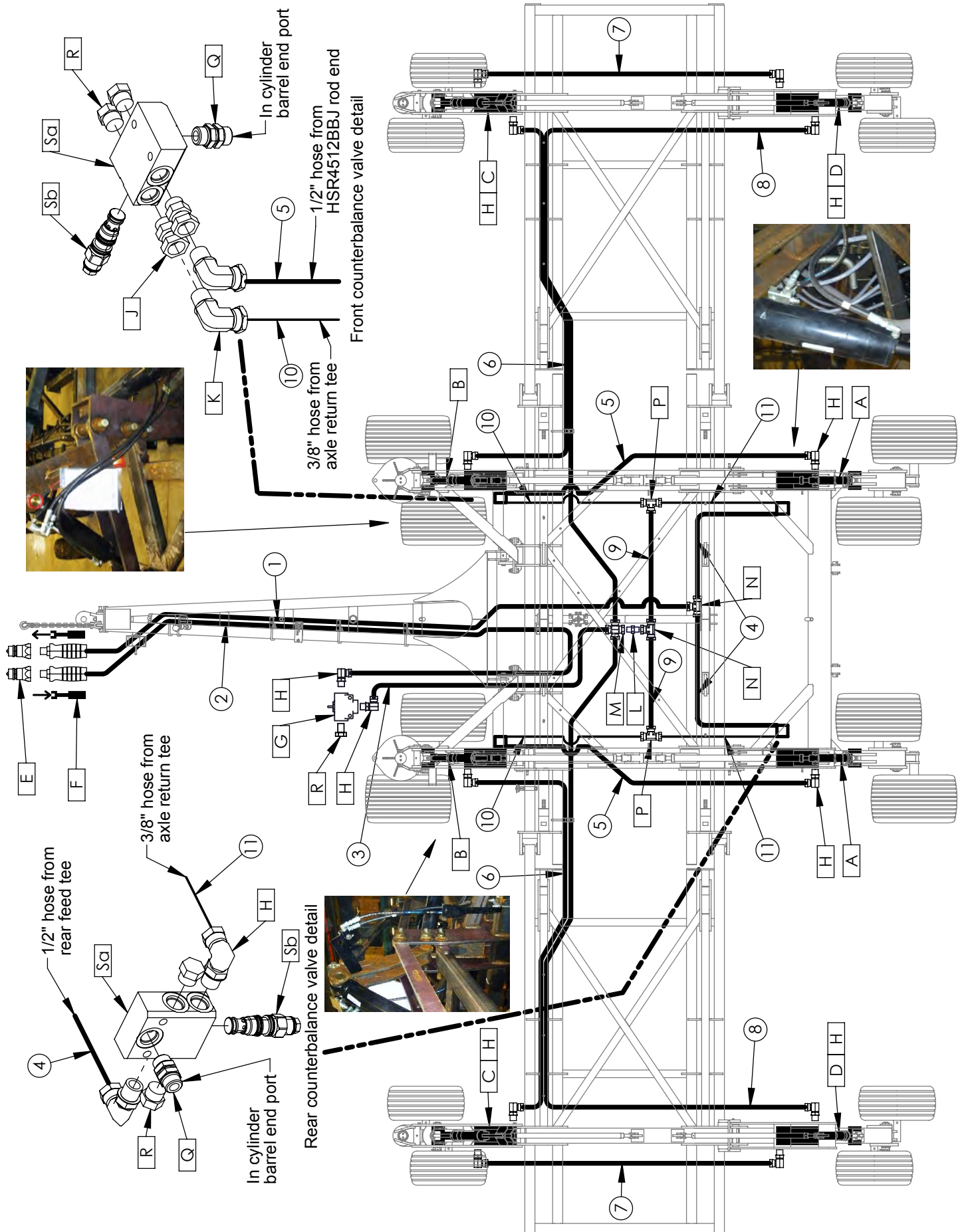


Hydraulic Components Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	L01411	BALL VALVE MOUNTING PLATE
2	1	HV1136	1/2" 2-WAY BALL VALVE
3	2	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
4	2	BUR061222	U-CLAMP ROUND 3/8 X 1 1/4 X 2 1/4 (42014)
5	16	BN10L	5/8" NYLOCK NUT NC
6	58	BN06L	3/8"-16NC LOCK NUT
7	1	H00012	3 SECTION WING FOLDING MANIFOLD
8	2	B0625	3/8" NC x 2 1/2" LG. HEX BOLT GR. 5
9	1	H930588	-08 ORB TO -08 NPT FEMALE SWIVEL STRAIGHT ADAPTER
10	1	H951588	-08 ORB MALE TO 1/2" FEMALE NPT SWIVEL ELBOW
11	1	H940588	-08 NPT MALE TO -08 NPT FEMALE SWIVEL ELBOW
12	6	T01496	SINGLE CLAMP HYDRAULIC HOSE HOLDER
13	1	T01498	525 PRIMARY WING HYD. HOSE HOLDER
14	5	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
15	28	P0160A	HOSE CLAMP 3"
16	24	P0160B	HOSE CLAMP 4"
17	1	BU1062	U-BOLT 5/8" x 6" x 4 1/2"
18	4	H930586	-08M ORB TO -06F NPT SWIVEL
19	4	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW



Axle Lift Hydraulics



Axle Lift Hydraulics

HARDWARE			
ITEM	QTY	PART NO.	DESCRIPTION
A	2	HSR4512BBJ	4 1/2" x 12" BALL JOINT REPHASING CYLINDER
B	2	HSR4012BBJ	4" x 12" BALL JOINT REPHASING CYLINDER
C	2	HSR3512	3 1/2" BORE x 12" STROKE REPHASING CYLINDER
D	2	HSR3212	3 1/4" BORE x 12" STROKE REPHASING CYLINDER
E	2	H80104P	1/2" NPT PIONEER MALE TIP
F	1	HG-PT22E22R21R	PAIR OF RED EXTEND / RED-GREY RETRACT PLASTIC HOSE GRIPS
G	1	HPMSC10	STROKE CONTROL VALVE
H	18	H951588	-08 ORB TO 1/2" NPT FEMALE SWIVEL ELBOW
J	4	H930588	-08 ORB TO 1/2" NPT FEMALE SWIVEL
K	4	H940588	-08 NPT MALE TO -08 NPT FEMALE SWIVEL ELBOW
L	1	H910088	1/2" NPT TO 1/2" NPT MALE NIPPLE
M	1	HT08SC	1/2" NPT ALL FEMALE SWIVEL CROSS
N	2	H958888	-08 NPT ALL FEMALE SWIVEL TEE
P	2	H956666	3/8" NPT ALL FEMALE SWIVEL TEE
Q	4	H6407-08-08	-08 ORB TO -08 ORB MALE ADJUSTABLE STRAIGHT
R	9	H89008	-08 ORB PLUG
S	4	HVSF500921	COUNTERBALANCE MANIFOLD AND VALVE ASSEMBLY
Sa	-	HVSF500121	SF500121 COUNTERBALANCE VALVE MANIFOLD
Sb	-	HVCBCL-LJN	SUN CBCL-LJN COUNTERBALANCE VALVE

HOSES					
LABEL	QTY	SIZE	LENGTH (in)	FROM	TO
1	1	1/2"	25'	TRACTOR	REAR FEED TEE
2	1	1/2"	30'8"	TRACTOR	STROKE CONTROL VALVE
3	1	1/2"	9'6"	STROKE CONTROL VALVE	RETURN CROSS/TEE
4	2	1/2"	9'6"	REAR FEED TEE	HSR4512 BARRELS
5	2	1/2"	14'7"	HSR4512 RODS	HSR4012 BARRELS
6	2	1/2"	21'4"	HSR4012 RODS	HSR3512 BARRELS
7	2	1/2"	13'2"	HSR3512 RODS	HSR3212 BARRELS
8	2	1/2"	28'10"	HSR3212 RODS	RETURN CROSS/TEE
9	2	3/8"	4'4"	RETURN CROSS/TEE	COUNTERBALANCE TEE
10	2	3/8"	8'8"	COUNTERBALANCE TEE	FRONT COUNTERBALANCES
11	2	3/8"	4'11"	COUNTERBALANCE TEE	REAR COUNTERBALANCES

CHARGING THE CIRCUIT

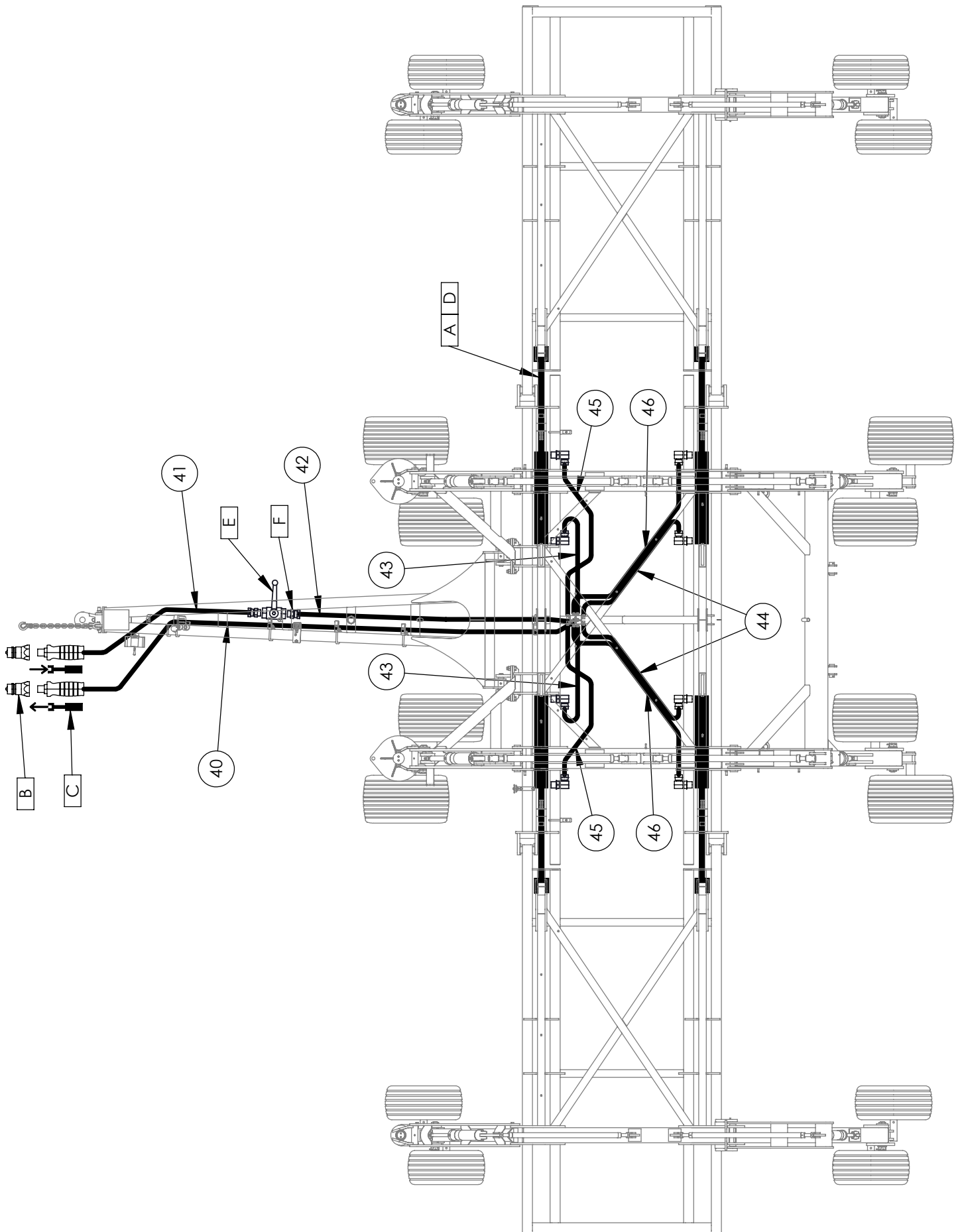
Connect only the Barrel end of the cylinders until the circuit has been charged.

1. Be sure that all cylinders can extend completely without striking anything. Prop with blocks if necessary.
2. Connect Tractor.
3. Extend cylinders and hold lever for 2-3 minutes. This will purge the air from the circuit. (The lift cylinders have a port that allows oil to pass when completely extended.)
4. The circuit is now free from air. Install rod end pins.

Whenever air could have entered the cylinders, repeat above steps to purge circuit.

Test wing fold and adjust hose droop at wings if necessary.

Wing Fold Hydraulics



Wing Fold Hydraulics

HARDWARE			
ITEM	QTY	PART NO.	DESCRIPTION
A	4	HS4536	4 1/2" BORE x 36" STROKE HYD. CYLINDER
B	2	H80104P	1/2" NPT PIONEER MALE TIP
C	1	HG-PT24E24R21R	PAIR OF GREEN EXTEND / GREEN-GREY RETRACT PLASTIC HOSE GRIPS
D	8	H951586	-08 ORB MALE TO 3/8" NPT FEMALE SWIVEL ELBOW
E	1	HV1136	1/2" 2-WAY BALL VALVE
F	2	H930588	-08 ORB TO 1/2" NPT FEMALE SWIVEL

HOSES					
LABEL	QTY	SIZE	LENGTH (in)	FROM	TO
40	1	1/2"	24'5"	TRACTOR EXTEND	MANIFOLD 'BASE'
41	1	1/2"	13'	TRACTOR RETRACT	BALL VALVE
42	1	1/2"	11'	BALL VALVE	MANIFOLD 'ROD'
43	2	3/8"	3'2"	MANIFOLD 'FLB' & 'FRB'	FRONT BARREL
44	2	3/8"	6'8"	MANIFOLD 'RLB' & 'RRB'	REAR BARREL
45	2	3/8"	6'8"	MANIFOLD 'FLR' & 'FRR'	FRONT ROD
46	2	3/8"	8'2"	MANIFOLD 'RLR' & 'RRR'	REAR ROD

CHARGING WING FOLD CYLINDERS

IMPORTANT: Do not connect the cylinder rods until system has been charged with oil.

1. Prop up the cylinder with a block of wood so the rod can extend without striking anything.
2. Hitch to tractor and connect hoses. (note: check to see that all the cylinders move in the same direction. If not, then switch the rod and barrel hoses of the cylinder(s) moving backward.)
3. Extend cylinders completely. Hold lever for 30 seconds as air exits the cylinder.
4. Retract cylinders completely. Hold lever for 30 seconds.
5. Repeat three times.
6. Install cylinder pins. Be sure washers are installed correctly (see cylinder page).



CAUTION

7. When folding for the first time, or when new hardware is installed, check that cylinders and fittings do not collide with the wing frame when fully folded. If so, use an alternate plug in the cylinder, or simply rotate cylinder 180 degrees.

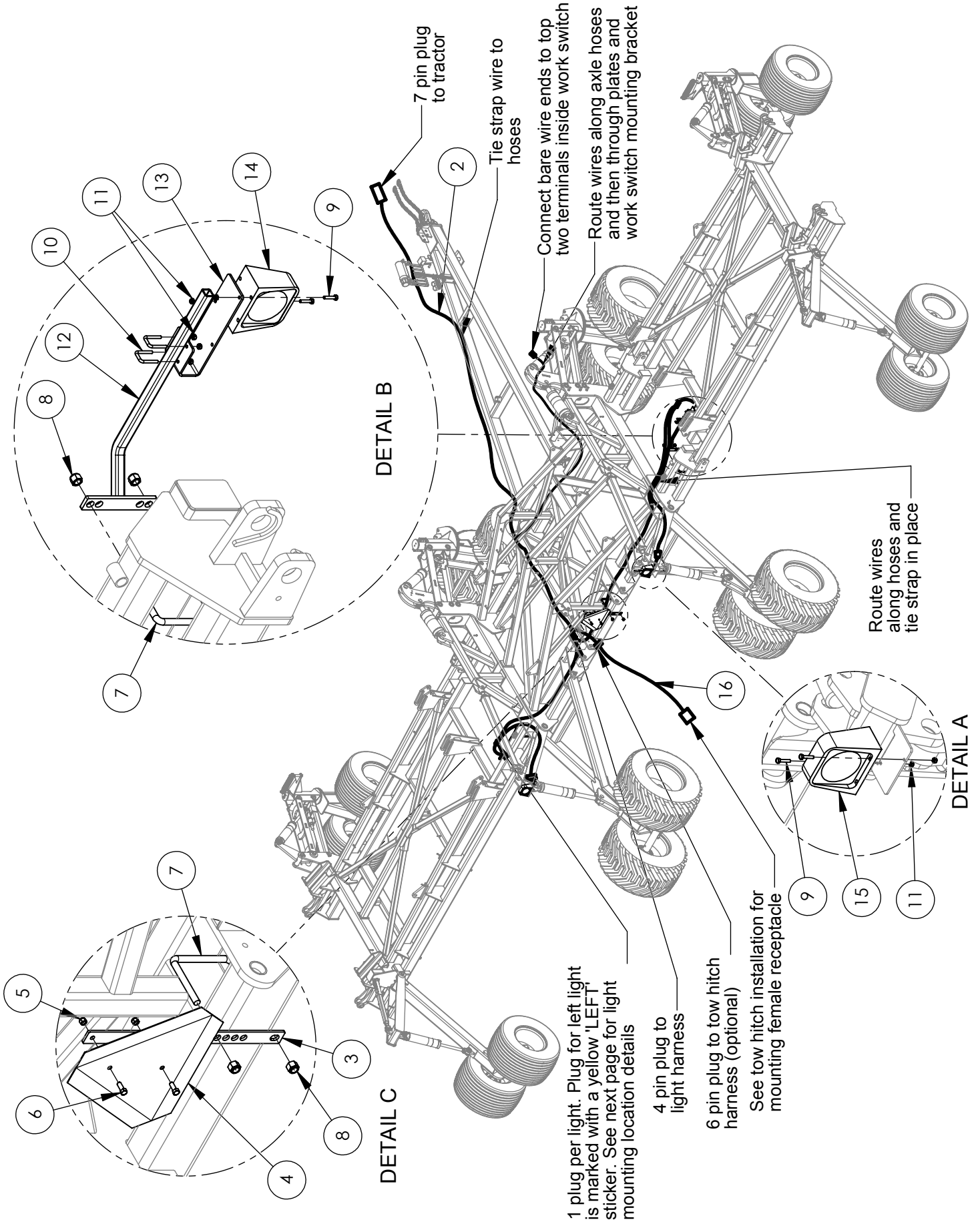


DANGER

Air in the wing cylinders will cause wings to fall to the ground!!! Whenever air could have entered the cylinders, repeat the process above to purge circuit.

Never work on a lift system with the wings folded!!! ALWAYS UNFOLD WINGS before working on hydraulics!!

Lights & SMV Install



Lights & SMV Install

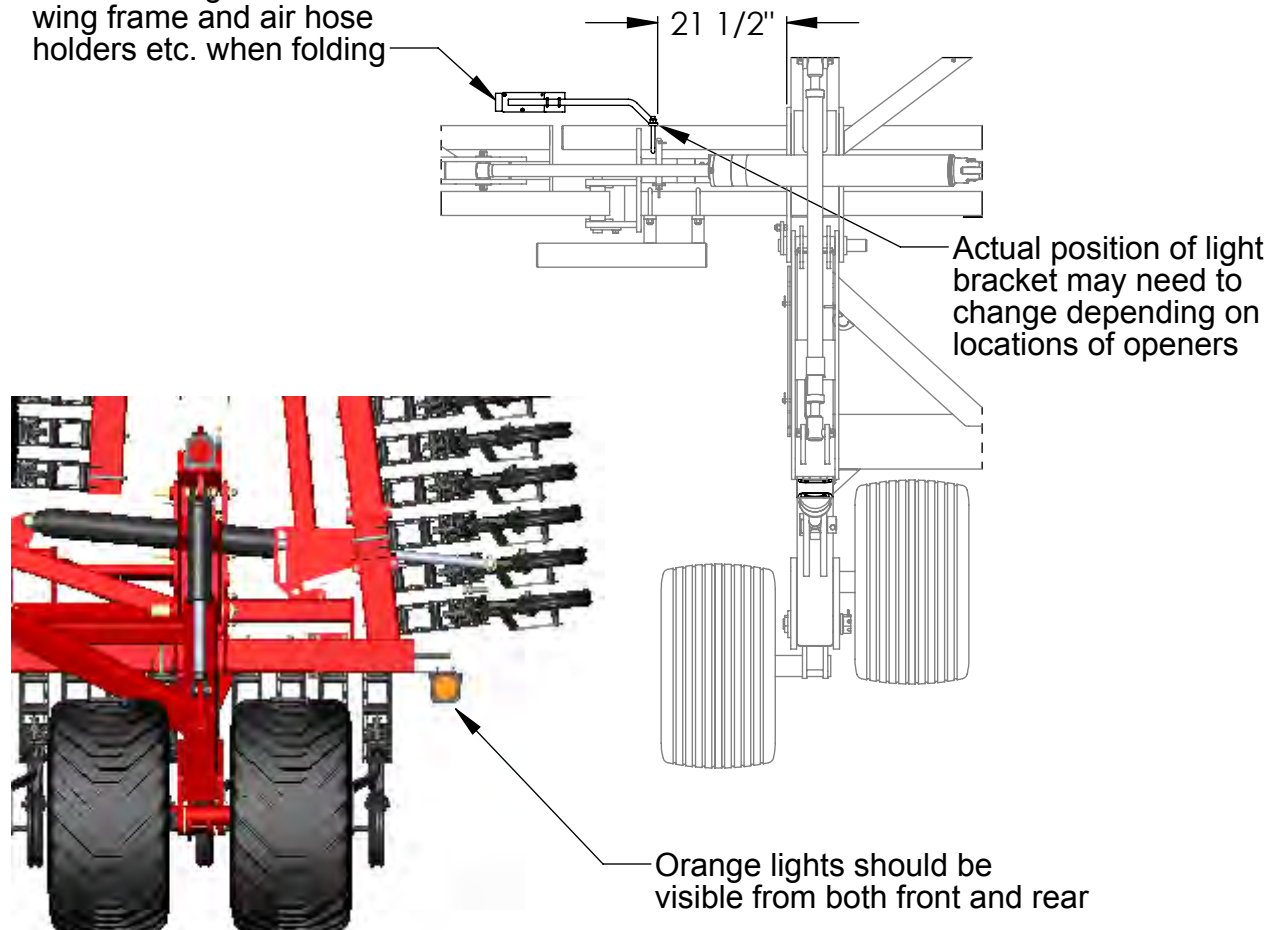
	ITEM	QTY	PART NO.	DESCRIPTION
a	1	1	GL767762	SALFORD WESBAR LIGHT KIT
b	2	1	T01710	525 AIR DRILL WIRING HARNESS
	3	1	C1011	SMV MOUNTING BRACKET
	4	1	GAP103NS	SMV SIGN
	5	2	BN06L	3/8"-16NC LOCK NUT
	6	2	B0610	3/8 X 1" PLATED BOLT GR.5
	7	3	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
	8	6	BN10L	5/8" NYLOCK NUT NC
	9	8	B0412	1/4"NC x 1 1/4" HEX BOLT
	10	4	BU0410	1/4 x 1" x 1 1/2" U-BOLT
	11	16	BN04L	1/4" LOCK NUT
	12	2	A60054	LIGHT BRACKET (LONG)
	13	2	L00425	OUTSIDE LIGHT MOUNTING PLATE
a	14	2	GL767762-AA	ORANGE LIGHT
a	15	2	GL767762-R	RED LIGHT
c	16	1	T00771-1	AIR SEEDER ADD-ON HARNESS FOR TBH TANK

a - light kit includes wiring harness and individual lights

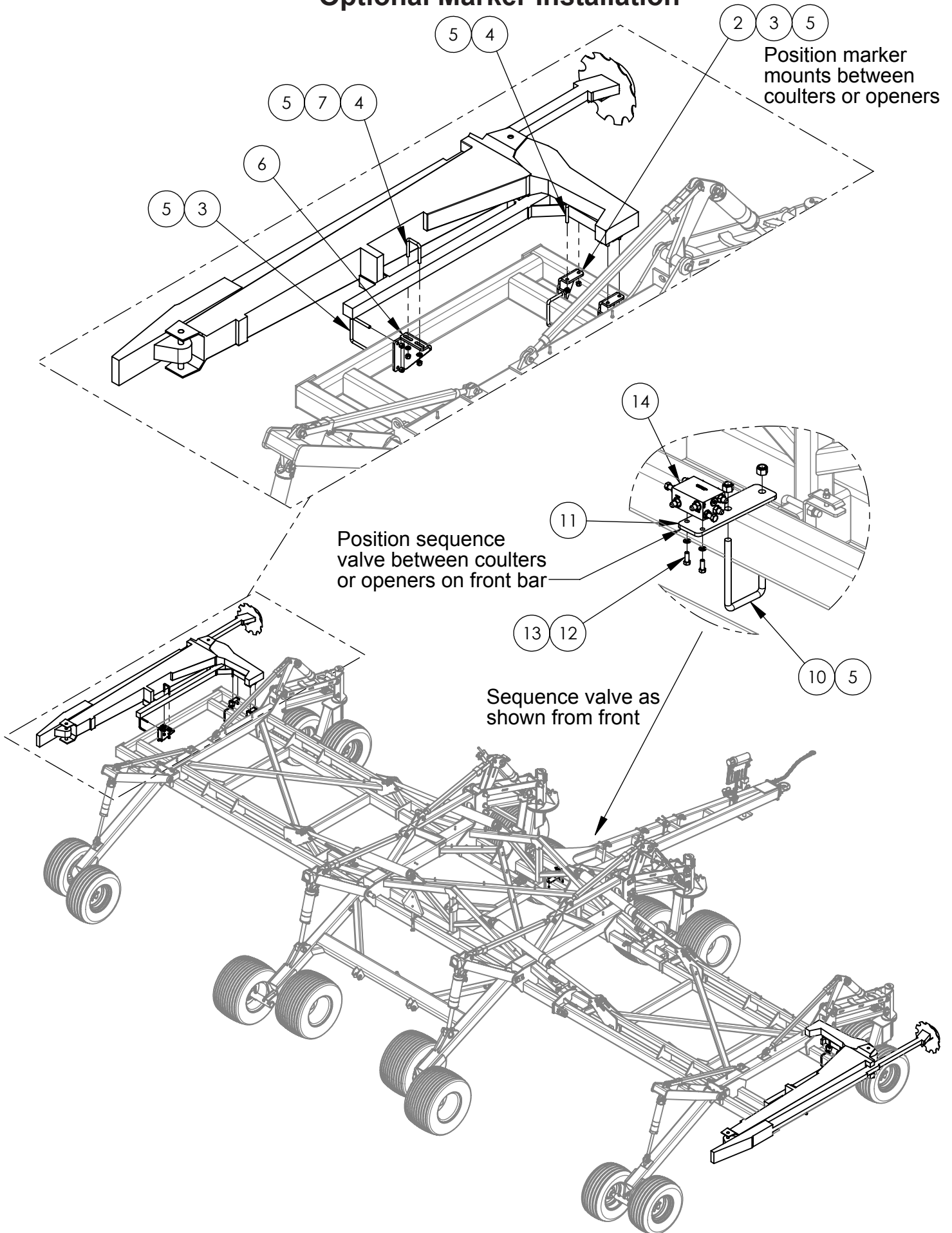
b - replaces main harness from light kit

c - included in optional rear tow hitch kit

Make sure light clears
wing frame and air hose
holders etc. when folding



Optional Marker Installation

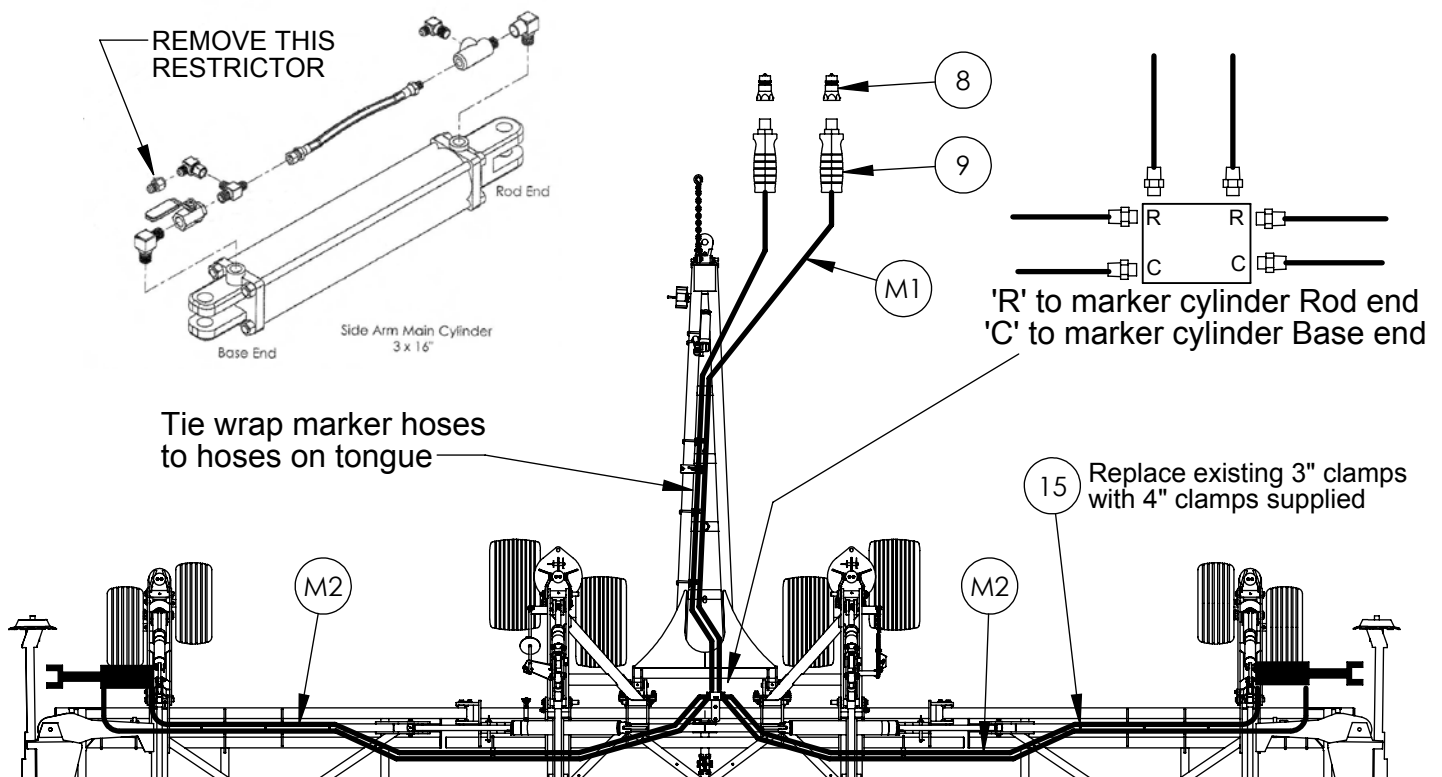


Optional Marker Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	T00150	SET OF HAUKAAS 246 SIDE ARM MARKERS
2	4	FL01998	525 FRONT MARKER MOUNT
3	6	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
4	6	BU1030	U-BOLT 5/8" x 3" x 4 1/2"
5	26	BN10L	5/8" NYLOCK NUT NC
6	2	FL01999	525-30' REAR MARKER MOUNT
7	4	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
8	2	H80104P	1/2" NPT MALE PIONEER COUPLER
9	1	HG-PT20E20R21R	PAIR OF BLUE EXTEND / BLUE-GREY RETRACT PLASTIC HOSE GRIPS
10	1	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
11	1	FL02315	525 MARKER SEQUENCE VALVE MOUNT
12	2	B0610	3/8" NC x 1" LG. HEX BOLT GR.5
13	2	BL06	3/8" LOCKWASHER
14	1	T00353	MARKER SEQUENCE VALVE #4129-055
15	12	P0160B	HOSE CLAMP 4"

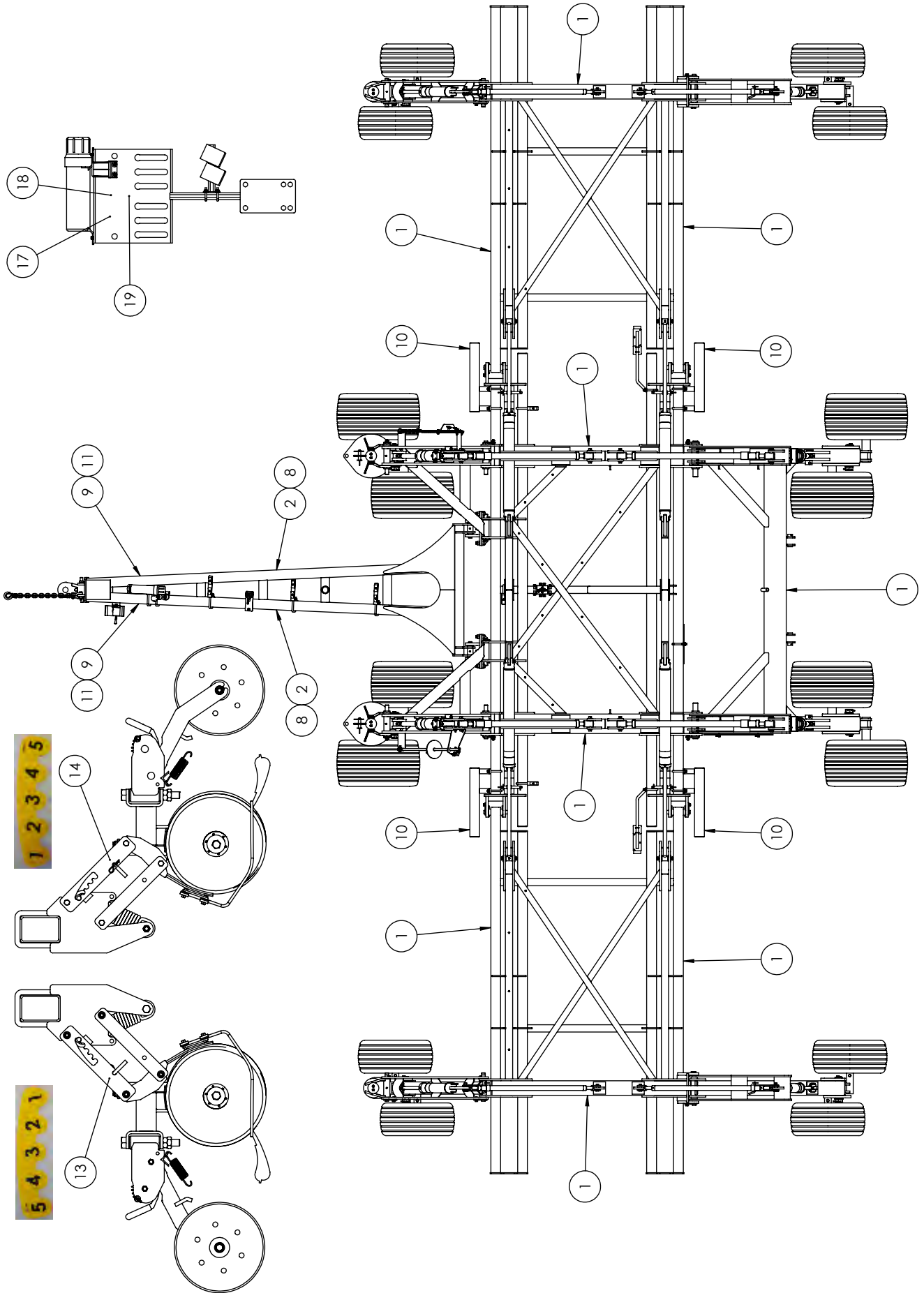
HOSES				
LABEL	QTY	LENGTH	FROM	TO
M1	2	21'	TRACTOR	SEQUENCE VALVE
M2	4	25'	SEQUENCE VALVE	MARKER

Refer to "HAUKAAS FIELD MARKERS"
Owners manual for fittings details.

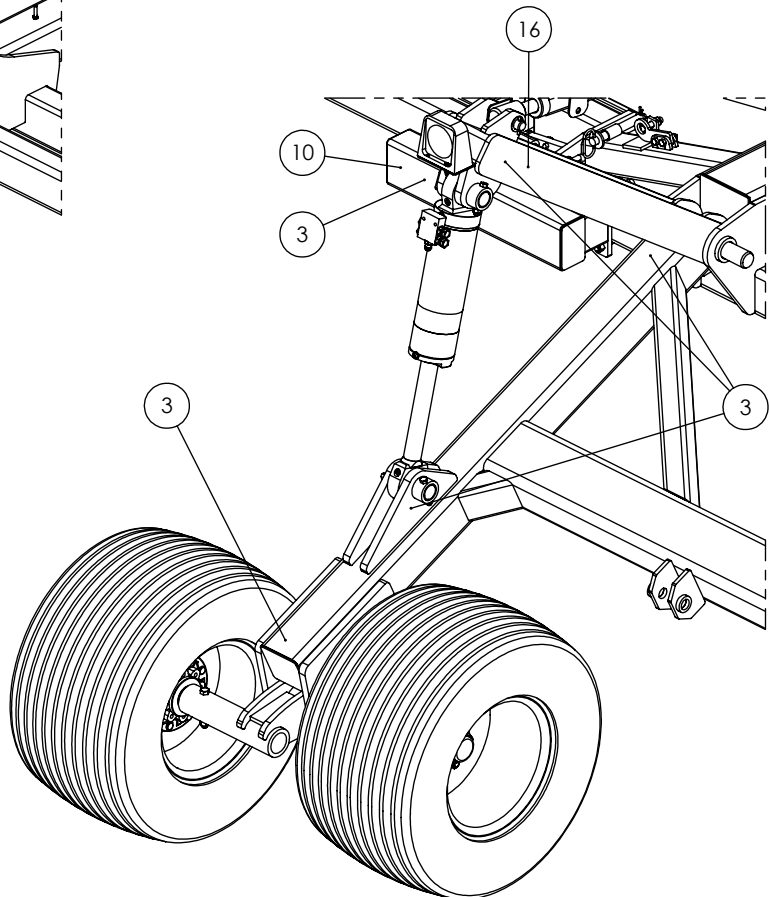
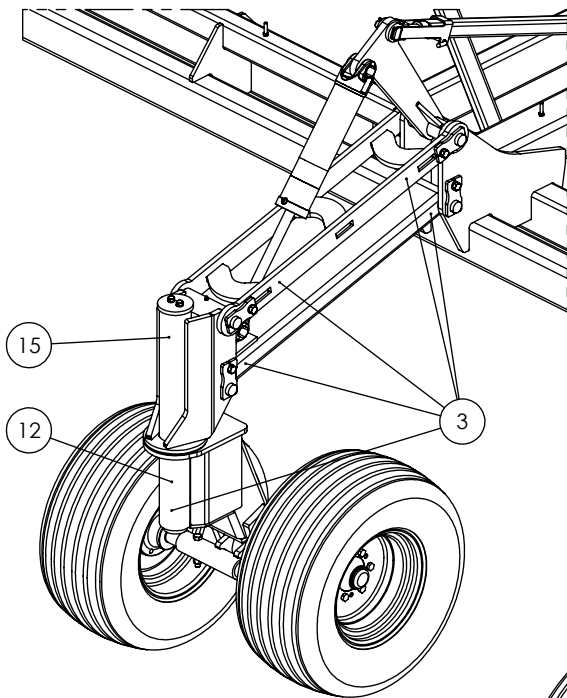
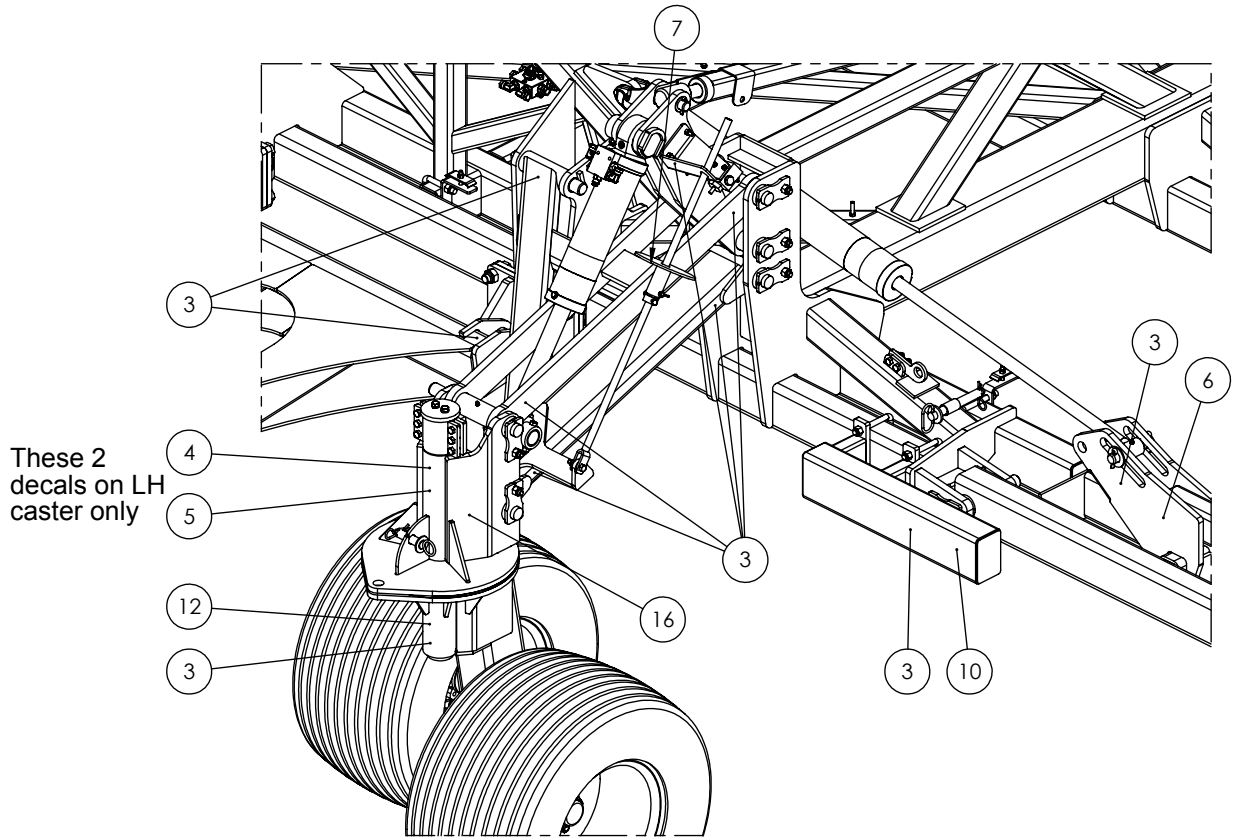


Decal Installation Layout

Place opener downpressure setting decal on endmost
 openers of main frame and secondary wings.



Decal Installation Layout



Decal Parts List

ITEM	QTY	PART NO.	DESCRIPTION
1	9	GD100	SALFORD DECAL 4" x 16"
2	2	GD102	WWW. SALFORD DECAL
3	30	GD10840	GREASE EVERY 40 HOURS DECAL
4	1	GD110	WARNING DON'T LIFT DECAL
5	1	GD112	ATTENTION LUBRICATE DECAL
6	2	GD144	WING LOCK DECAL
7	1	GD109	DEPTH CONTROL DECAL
8	2	GD525	MODEL 525 DECAL
9	2	GDSW2	USE PROPER TOOLS AND READ MANUAL DECAL
10	4	GDSW200	WARNING STICKER, OVERHEAD CRUSHING HAZARD
11	2	GDT3	DANGER STICKER FOR CRUSHING HAZARD
12	4	GD108	HIDDEN GREASE FITTINGS DECAL
13	4	GD190R	OPENER DECAL (RH)
14	4	GD190L	OPENER DECAL (LH)
15	4	GD193	11L x 15 TIRE DECAL
16	4	GD194	8 LUG HUB DECAL
17	1	GDSW700	WARNING STICKER, HIGH PRESSURE FLUID HAZARD
18	1	GDSW4	SAFE OPERATION LIST DECAL
19	1	GD210	HOSE IDENTIFICATION DECAL



GD100 (1)



GD102 (2)



GD10840 (3)



GD110 (4)



GD112 (5)



GD144 (6)

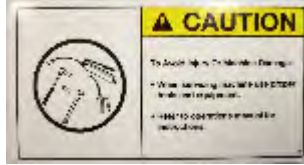


GD109 (7)

Decal Legend



GD525 (8)



GDSW2 (9)



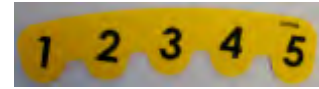
GDSW200 (10)



GDT3 (11)



GD108 (12)



GD190L (13)



GD190R (14)



GD193 (15)



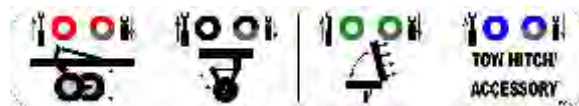
GD194 (16)



GDSW700 (17)



GDSW4 (18)



GD210 (19)



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