



**2011 MODEL 700 40FT C-SHANK CULTIVATOR
ASSEMBLY AND PARTS MANUAL**

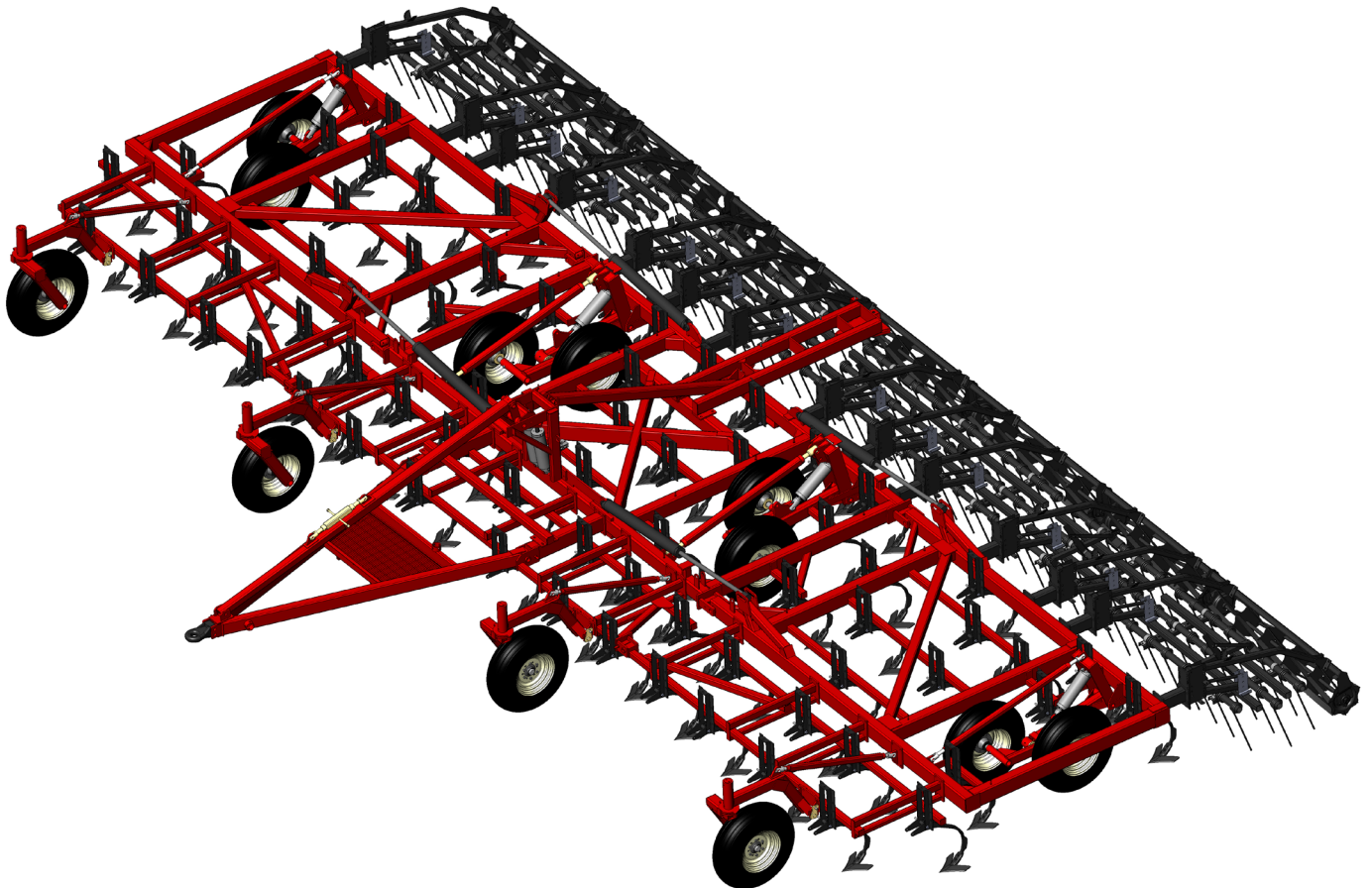


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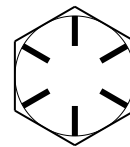
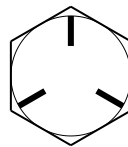
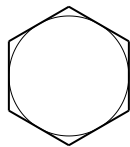
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Salford Recommended Torque Values



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.

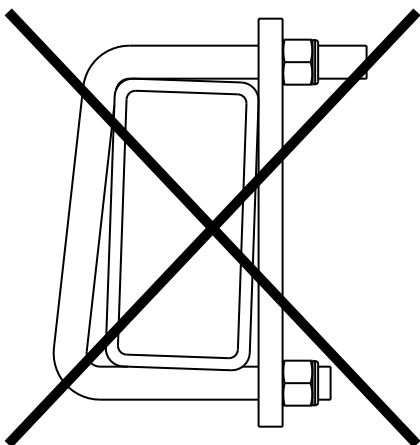
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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.

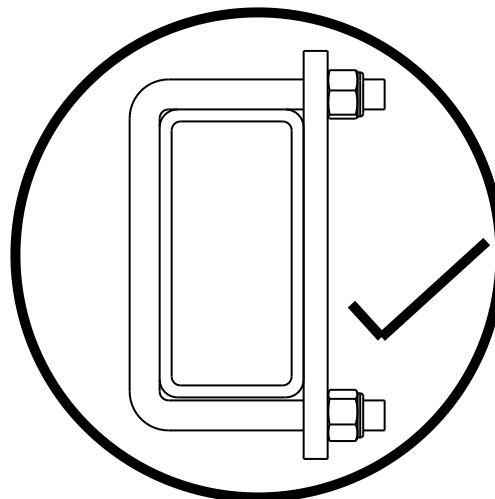
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

WARNING

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



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



Torque Values for Tires



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.

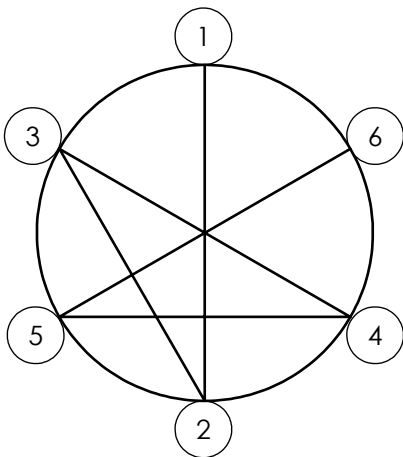
Install all lug nuts/bolts by hand to prevent cross threading and tighten lug nuts/bolts following the steps and tightening sequence diagram below.

- 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.

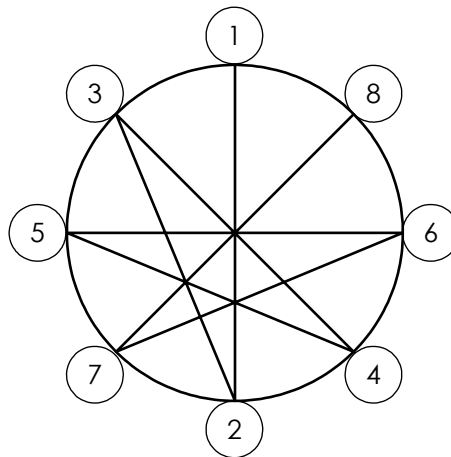
Bolt Size (Hub Size)	Final Torque
1/2" dia. bolt (up to 3000 lb hubs)	85 ft•lbs
9/16" dia. bolt (4000 - 5000 lb hubs)	120 ft•lbs
5/8" dia. bolt (5500 - 12000 lb hubs)	170 ft•lbs
3/4" dia. bolt (16000 - 20000 lb hubs)	300 ft•lbs
7/8" dia. bolt (25000 lb hubs)	450-500 ft•lbs

Lug Nut/Bolt Tightening Sequence

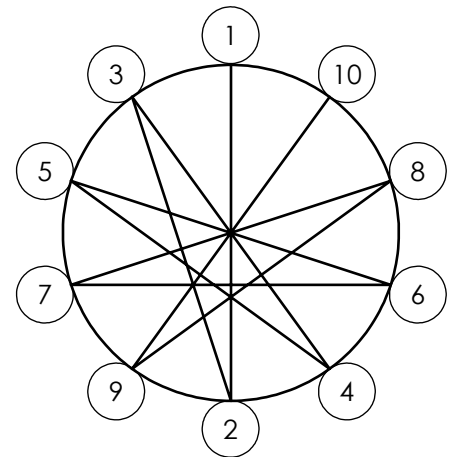
6 LUG BOLT PATTERN



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.

Pressure Values for Tires

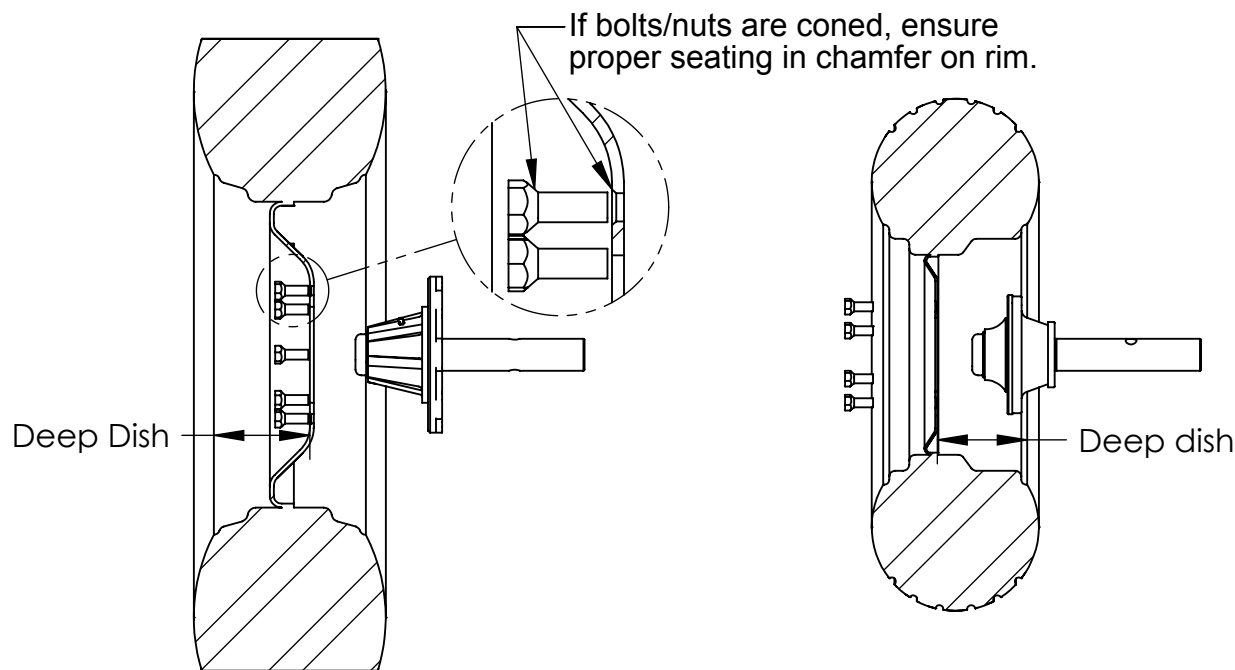
Ensure proper inflation of each tire for safe operation and extended tire life.

Pressure [psi]	Pressure [bar]	Tire Size
25 [psi]	1.72 [bar]	23.1 x 26 (16 ply)
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
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

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.

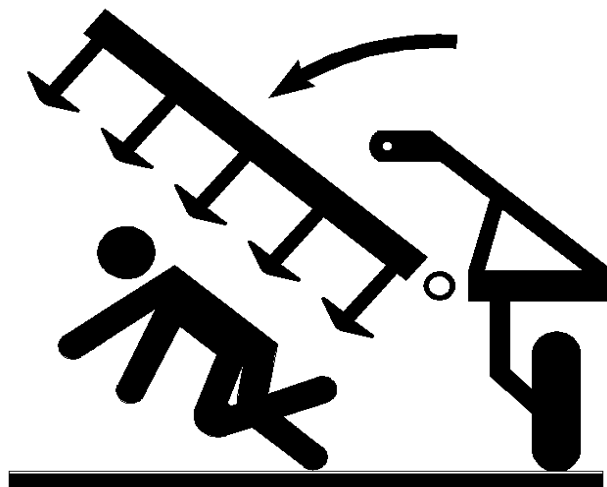
A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT !

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.

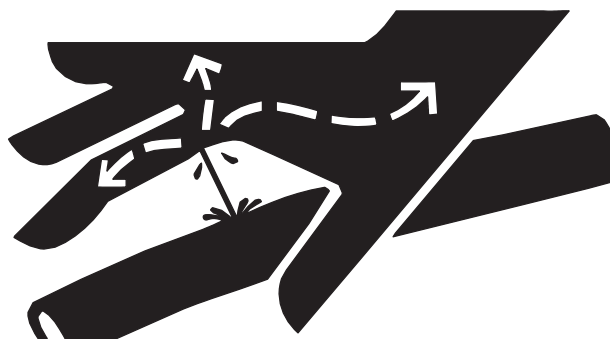


Hydraulics

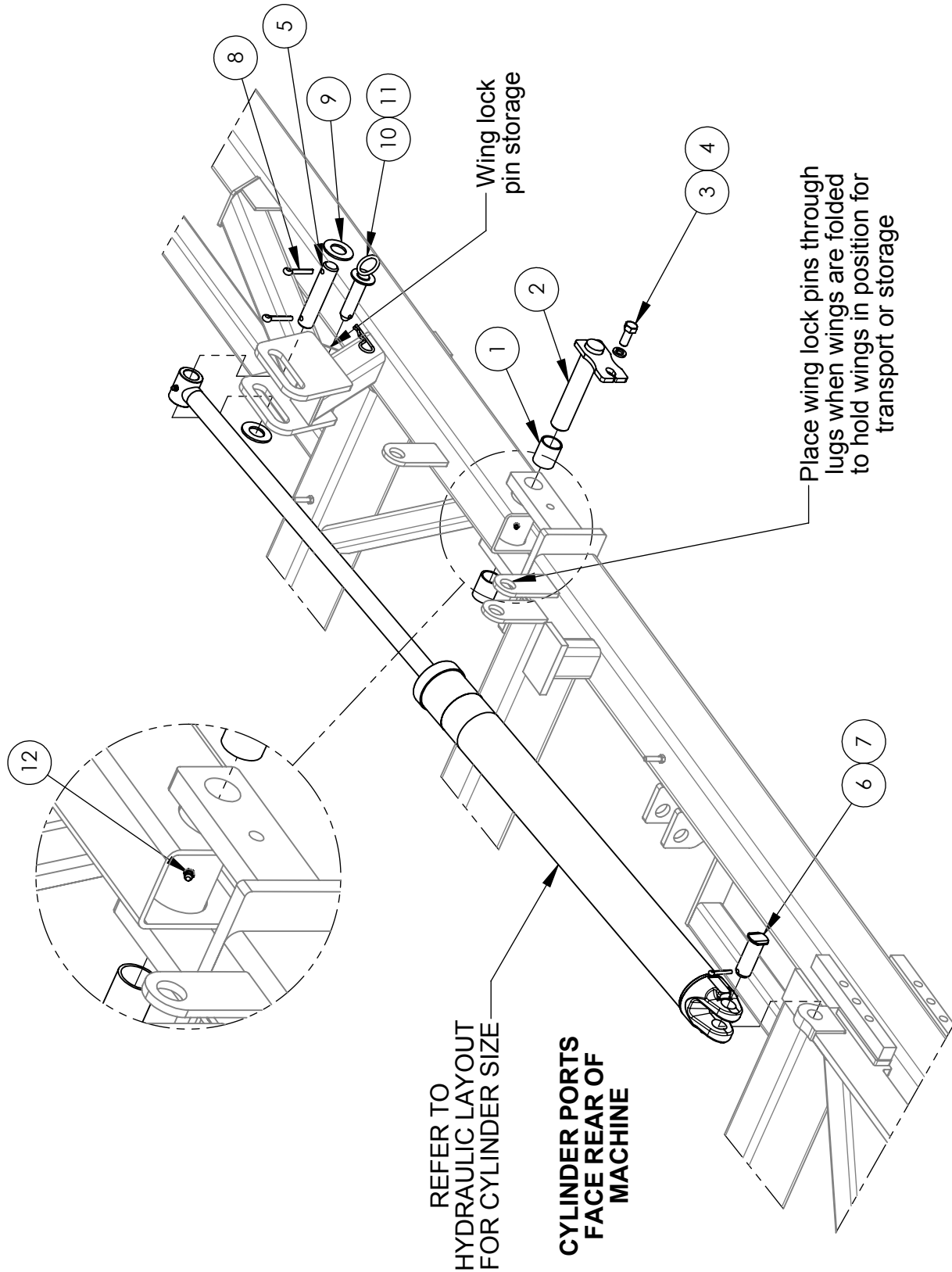


DANGER

- **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.



Primary Wing Installation



Primary Wing Installation

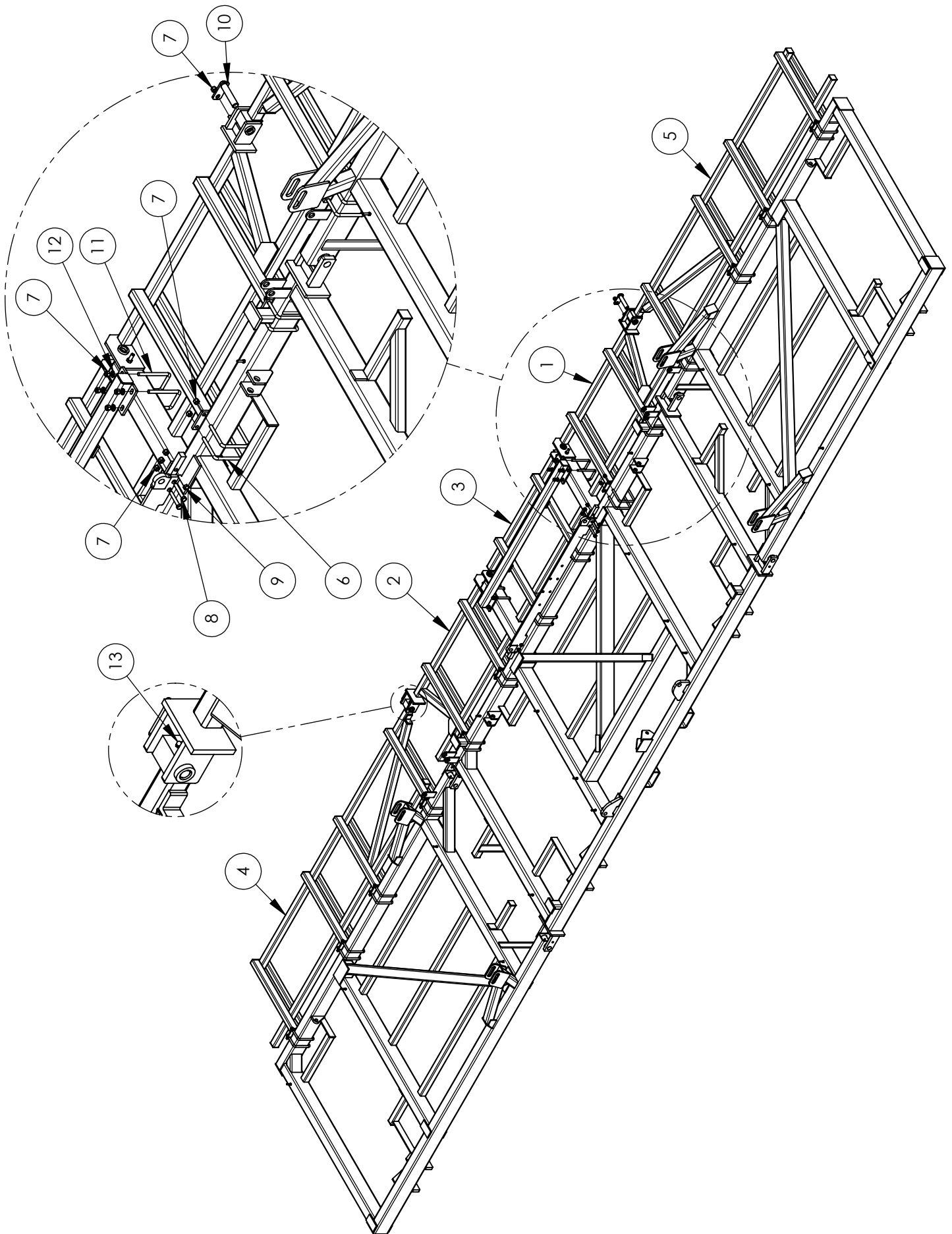
ITEM	QTY	PART NO.	DESCRIPTION
1	8	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
2	4	GPH2400814F	1 1/2" x 8 1/4" LG. HARD PLATE PIN
3	4	B1015	5/8 X 1 1/2" PLATED BOLT
4	4	BL10	5/8" LOCKWASHER
5	4	GPH20006A06	1 1/4" x 6" HARDENED PIN - 2 HOLES
6	4	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
7	4	BSC0520	5/16" x 2" COTTER PIN
8	8	BSC0620	3/8" x 2" COTTER PIN
9	8	BF20S	1 1/4" SAE WASHER
10	2	GP1600414C04	1" x 4 1/4" RING & WASHER PIN
11	2	GHP9	#9 HAIR PIN
12	4	GF1610	1/8" NPT GREASE FITTING



CAUTION

Connect hoses and charge the wing fold cylinders with fluid following the procedure in the wing fold hydraulics section of this manual before connecting rod ends of the cylinders.

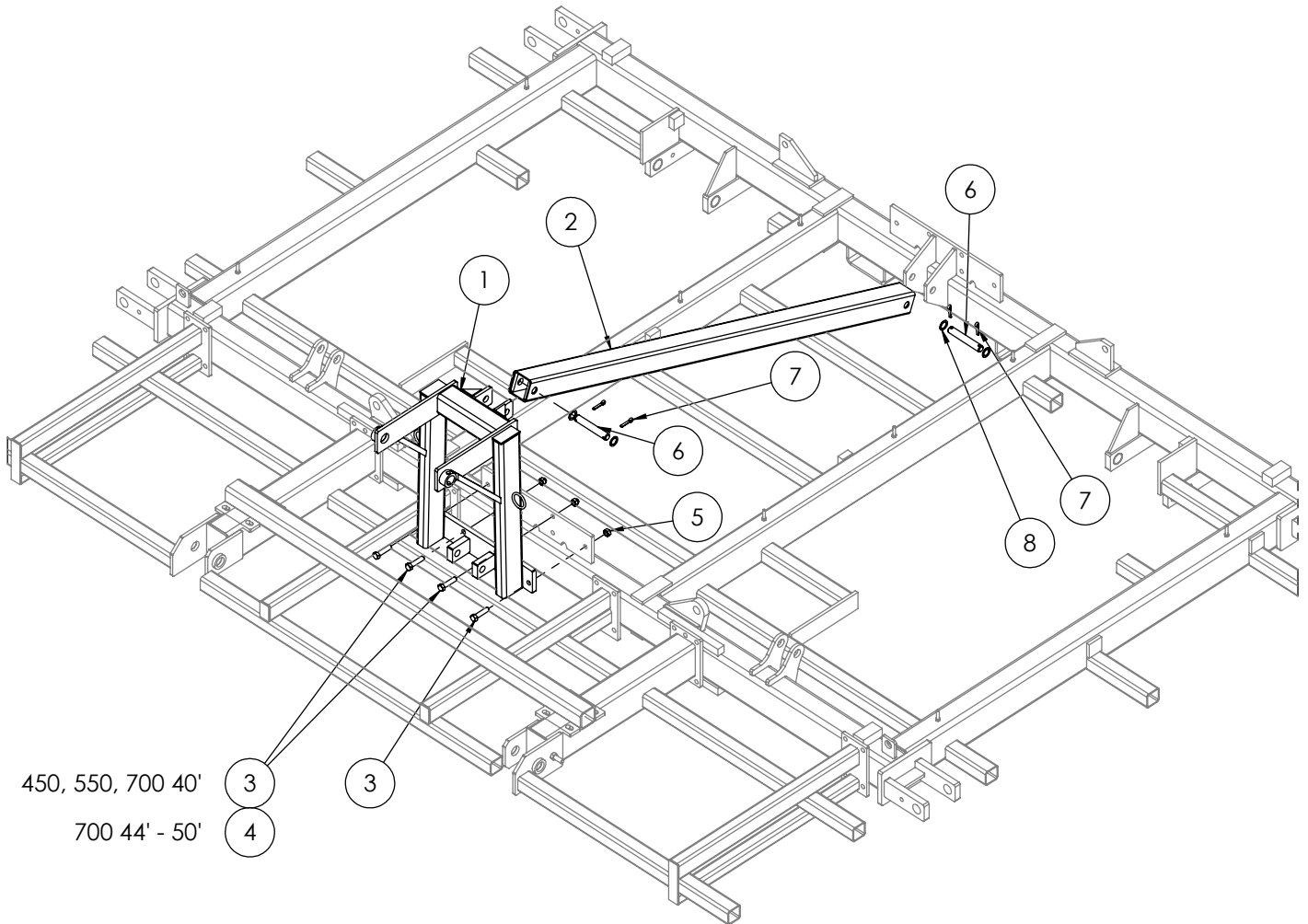
Front Bar Installation



Front Bar Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	700	C11049R	700 - 40' RIGHT MAINFRAME FIFTH BAR W/HINGE
2	1	C11049L	700 - 40' LEFT MAINFRAME FIFTH BAR W/HINGE
3	1	C10999	450-550-700 MAIN MIDDLE 5TH BAR
4	1	C11050L	700 40' PRIMARY WING 5TH BAR - LH
5	1	C11050R	700 40' PRIMARY WING 5TH BAR - RH
6	28	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
7	78	BN10L	5/8" NYLOCK NUT NC
8	4	B1040	5/8"NC x 4" LG. HEX BOLT
9	8	B1030	5/8"NC x 3" LG. HEX BOLT
10	2	GPH2000612F	1 1/4" x 6 1/2" LG. PIN - HARDENED
11	4	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
12	8	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
13	2	GF911	1/4"28NF x 90 DEGREE GREASE FITTING

Standard Tripod Installation

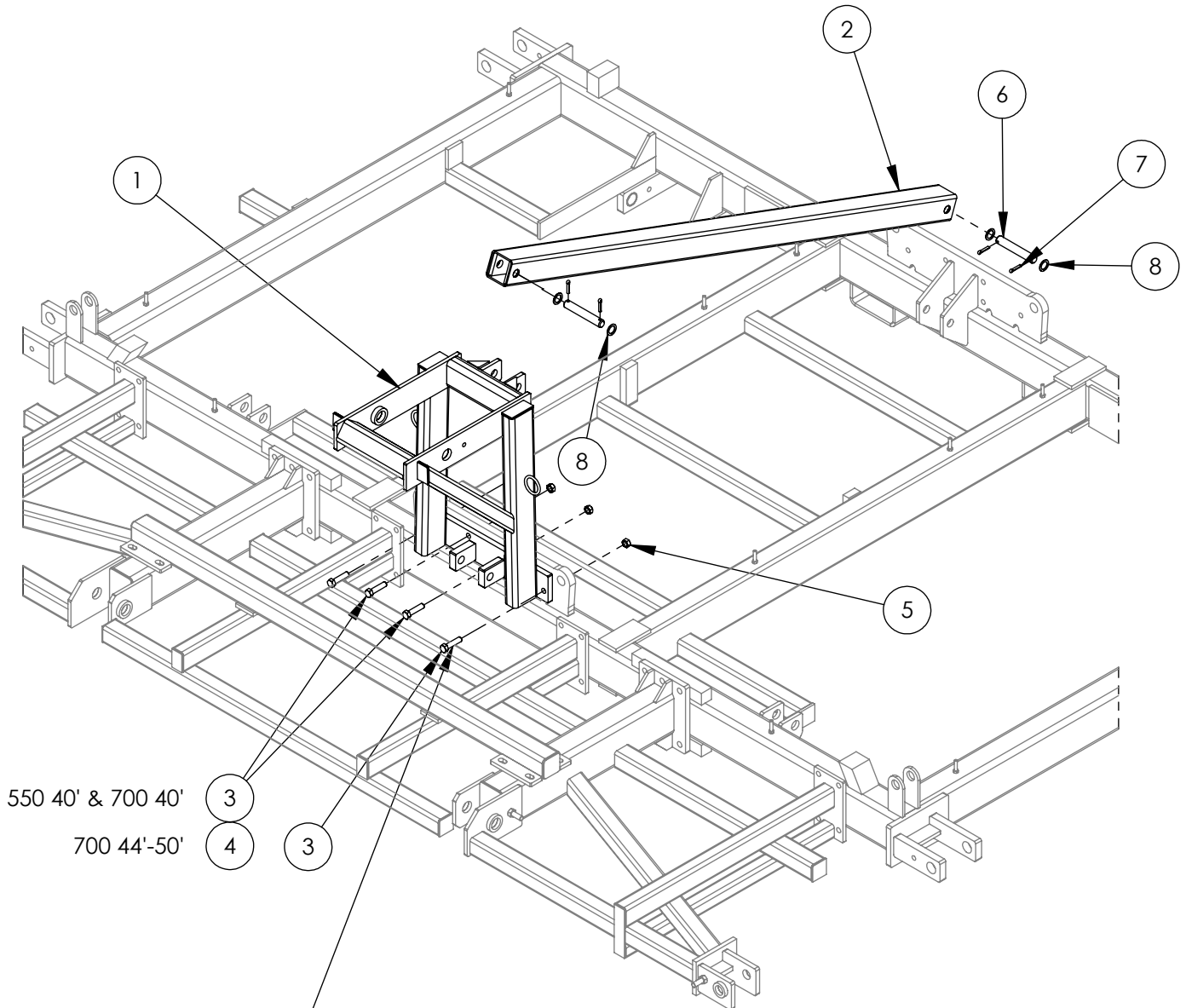


ITEM	QTY	PART NO.	DESCRIPTION	
1	1	C10575	550/570/699/700 TRIPOD TOWER	
2	1	C10668	570 TRIPOD BRACE	
*	3	4	B1025	5/8 x 2 1/2" HEX BOLT GR 5
**	4	2	B1030	5/8"NC x 3" LG. HEX BOLT
	5	4	BN10S	5/8" NC STOVER LOCK NUT
	6	2	GP1600614A05	PIN 1" DIA. x 6 1/4" LG. - 2 HOLES
	7	4	BSC0515	5/16" x 1 1/2" COTTER PIN
	8	4	GM26	1" MACHINE BUSHING

* Quantity shown for 450, 550, and 700 40' machines.
Quantity of 2 for 700 44'-50' machines.

** Used only on 700 44'-50' Machines.

Land Hugger Tripod Installation



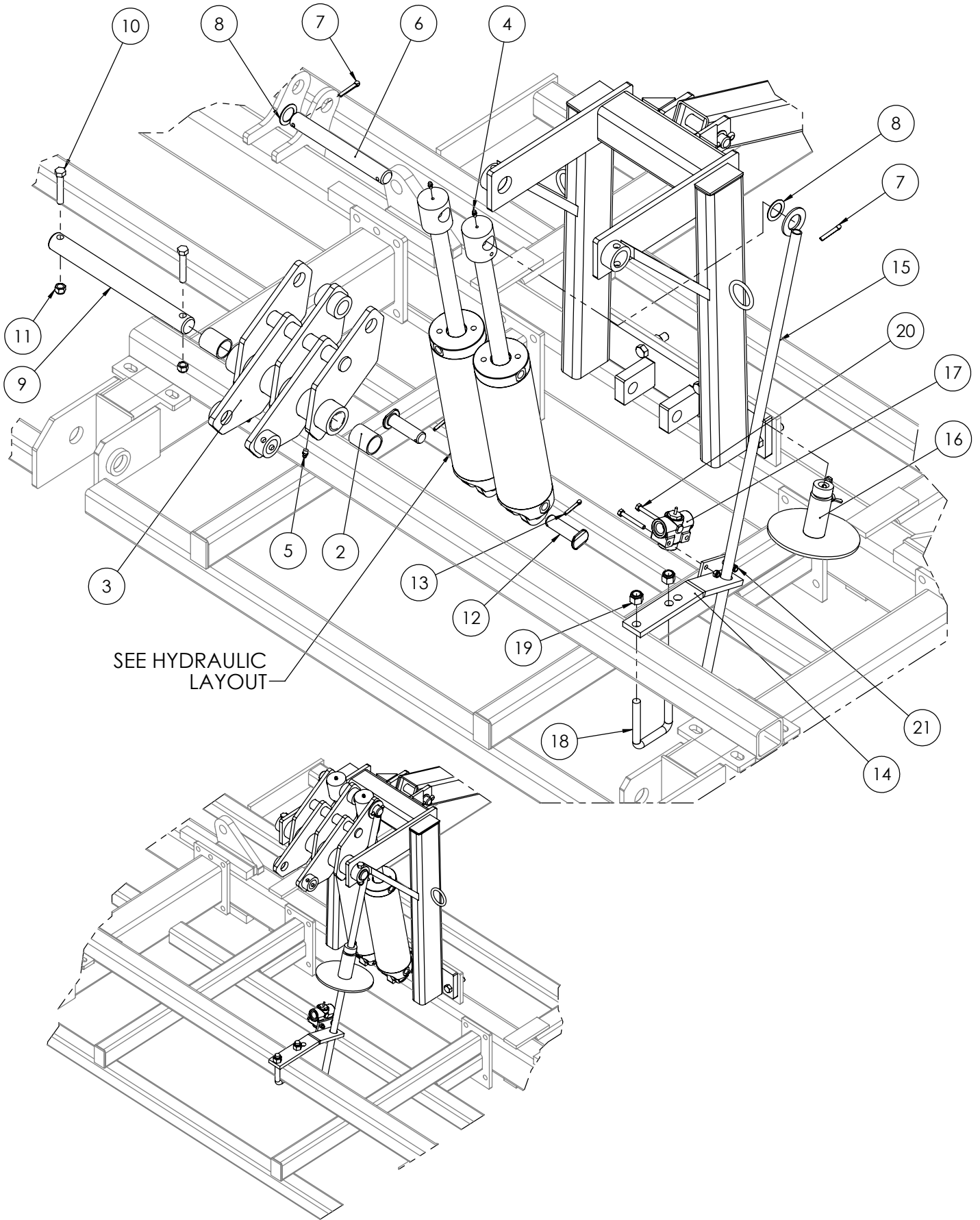
BOLT TOWER IN PLACE LOOSELY THEN
INSTALL TRIPOD BRACE BEFORE TIGHTENING

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	C10941	550/700 LAND HUGGER TRIPOD
2	1	C10668	570 TRIPOD BRACE
3	4	B1025	5/8 x 2 1/2" HEX BOLT GR 5
4	2	B1030	5/8"NC x 3" LG. HEX BOLT
5	4	BN10S	5/8" NC STOVER LOCK NUT
6	2	GP1600614A05	PIN 1" DIA. x 6 1/4" LG. - 2 HOLES
7	4	BSC0515	5/16" x 1 1/2" COTTER PIN
8	4	GM26	1" MACHINE BUSHING

* Quantity shown for 550 40' & 700 40'
Quantity of 2 for 700 44'-50'

** Used only on 700 44'-50'

Standard Tripod & Depth Control Installation



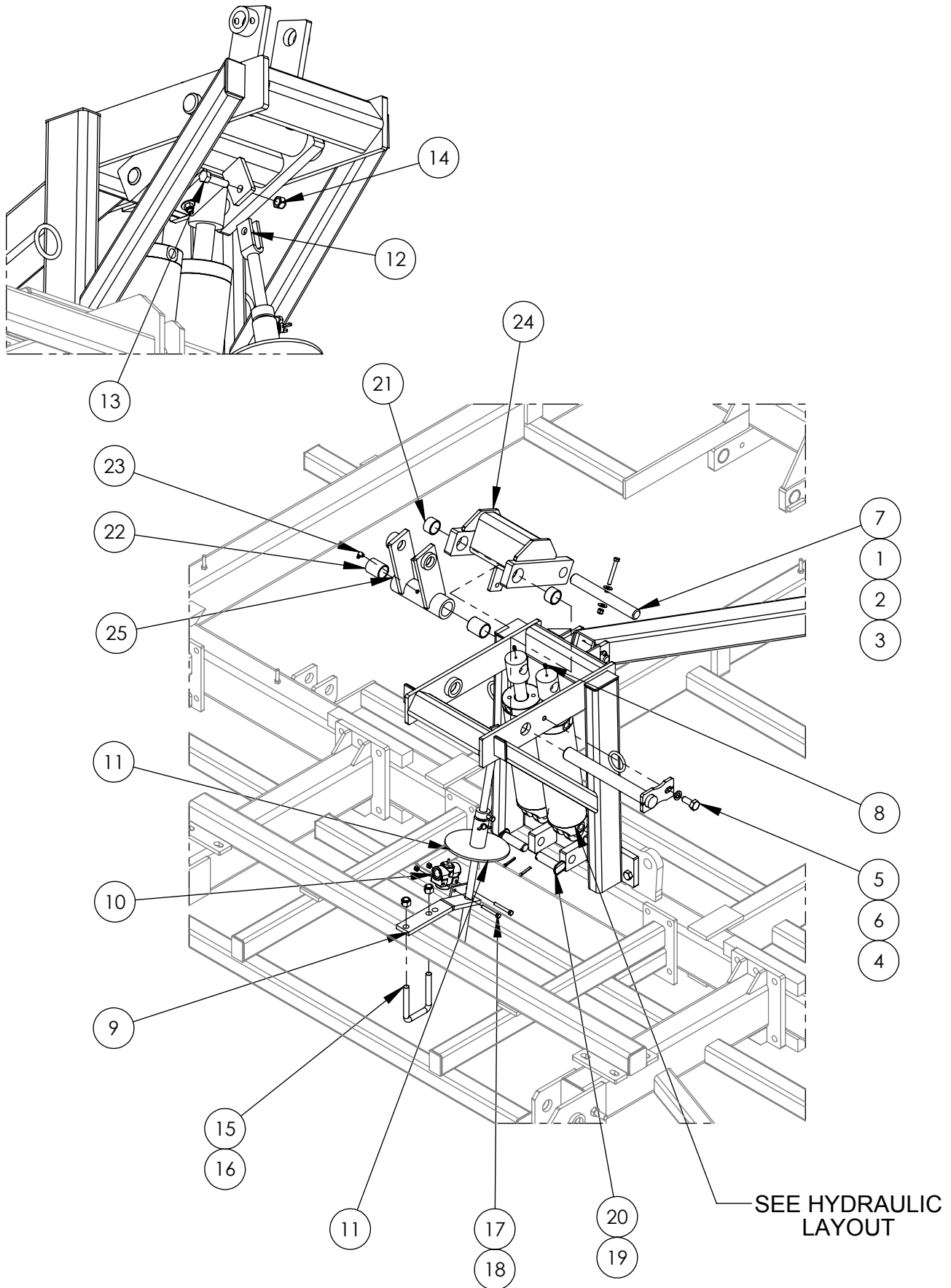
Standard Tripod & Depth Control Installation

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	C10575	550/570/699/700 TRIPOD TOWER
2	2	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
3	1	C10784	550/570/699/700 SELF-LEVELING PIVOT
4	2	GF641	1/4"-28NF GREASE FITTING
5	2	GF1610	1/8" NPT GREASE FITTING
6	1	GP2001012A05	1 1/4" DIA. x 10 1/2" LG - 2 HOLE
7	2	BSC0520	5/16" x 2" COTTER PIN
8	2	GM30	1 1/4" MACHINE BUSHING
9	1	GP2401514A09	PIN 1 1/2" DIA. x 15 1/4" LG. - 2 HOLES
10	2	B0830	1/2" x 3" HEX BOLT
11	2	BN08L	1/2" NYLOCK NUT NC
12	2	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
13	2	BSC0415	1/4" x 1 1/2" COTTER PIN
14	1	D10011C	1/2 X 2 FB-11 3/4 LG: POPPET VALVE BRACKET 17°
15	1	C10667	570 DEPTH CONTROL ROD
16	1	C1008	DEPTH CONTROL DISC ASSEMBLY
17	1	HPMSC10	STROKE CONTROL VALVE
18	1	BU1030	U-BOLT 5/8" x 3" x 4 1/2"
19	2	BN10L	5/8" NYLOCK NUT NC
20	2	B0525	5/16"NC x 2 1/2" HEX BOLT
21	2	BN05L	5/16" LOCK NUT

NOTE:

WHEN INSTALLING POPPET VALVE BRACKET, TIGHTEN THE U-BOLT EQUALLY. DO NOT OVERTIGHTEN!!

Land Hugger Tripod & Depth Control Installation



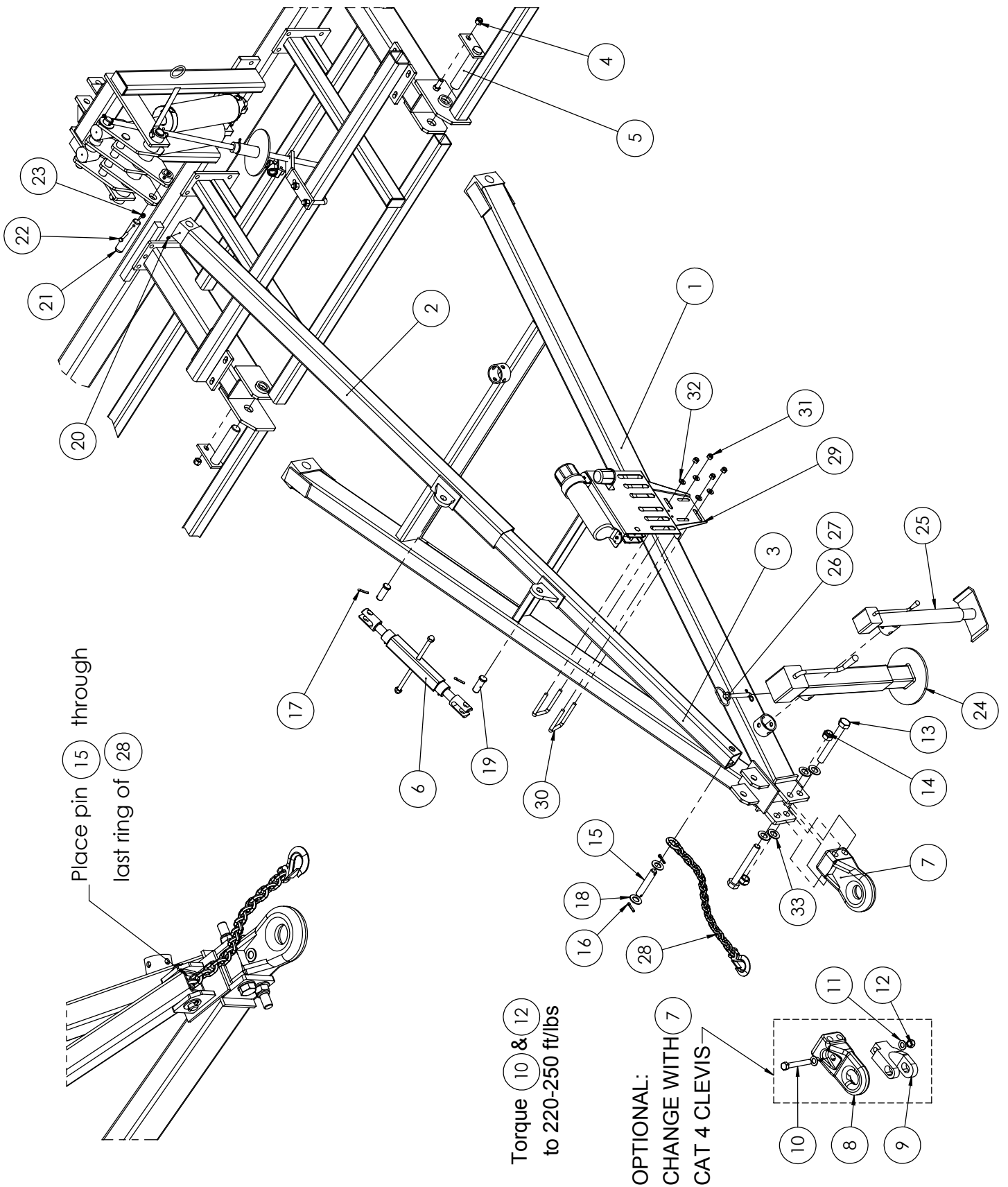
Land Hugger Tripod & Depth Control Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	B0630	3/8" X 3" LG. GRADE 5
2	2	BF06	3/8" FLATWASHER
3	1	BN06L	3/8"-16NC LOCK NUT
4	1	GPH2401312F	1 1/2" x 13 7/8" LG. AXLE PIN - HARDENED
5	1	B1015	5/8"NC x 1 1/2" HEX BOLT
6	1	BL10	5/8" LOCKWASHER
7	1	GPSPEC200934	Ø 1 1/4" x 10 1/4" CENTRE HOLE PIN
8	2	GF641	1/4"-28NF GREASE FITTING
9	1	D10011C	1/2 X 2 FB-11 3/4 LG: POPPET VALVE BRACKET 17°
10	1	HPMSC10	STROKE CONTROL VALVE
11	1	C1008	DEPTH CONTROL DISC ASSEMBLY
12	1	T00047	AIR SEEDER DEPTH CONTROL ROD - 28"
13	1	B0820	1/2" x 2" HEX BOLT
14	1	BN08L	1/2" NYLOCK NUT NC
15	1	BU1030	U-BOLT 5/8" x 3" x 4 1/2"
16	2	BN10L	5/8" NYLOCK NUT NC
17	2	B0525	5/16"NC x 2 1/2" HEX BOLT
18	2	BN05L	5/16" LOCK NUT
19	2	BSC0415	1/4" x 1 1/2" COTTER PIN
20	2	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
21	2	GBB175150100	1 3/4" x 1 1/2" x 1" LG. HARD BUSHING
22	2	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
23	1	GF1613	1/8" NPT GREASE FITTING 90deg
24	1	T00427	2007 AIR SEEDER ROCKER WELDMENT
25	1	T00428	580 & 880 TELESCOPE MOUNT BRACKET

NOTE:

WHEN INSTALLING POPPET VALVE BRACKET, TIGHTEN THE U-BOLT EQUALLY. DO NOT OVERTIGHTEN!!

Tongue Installation



Tongue Installation

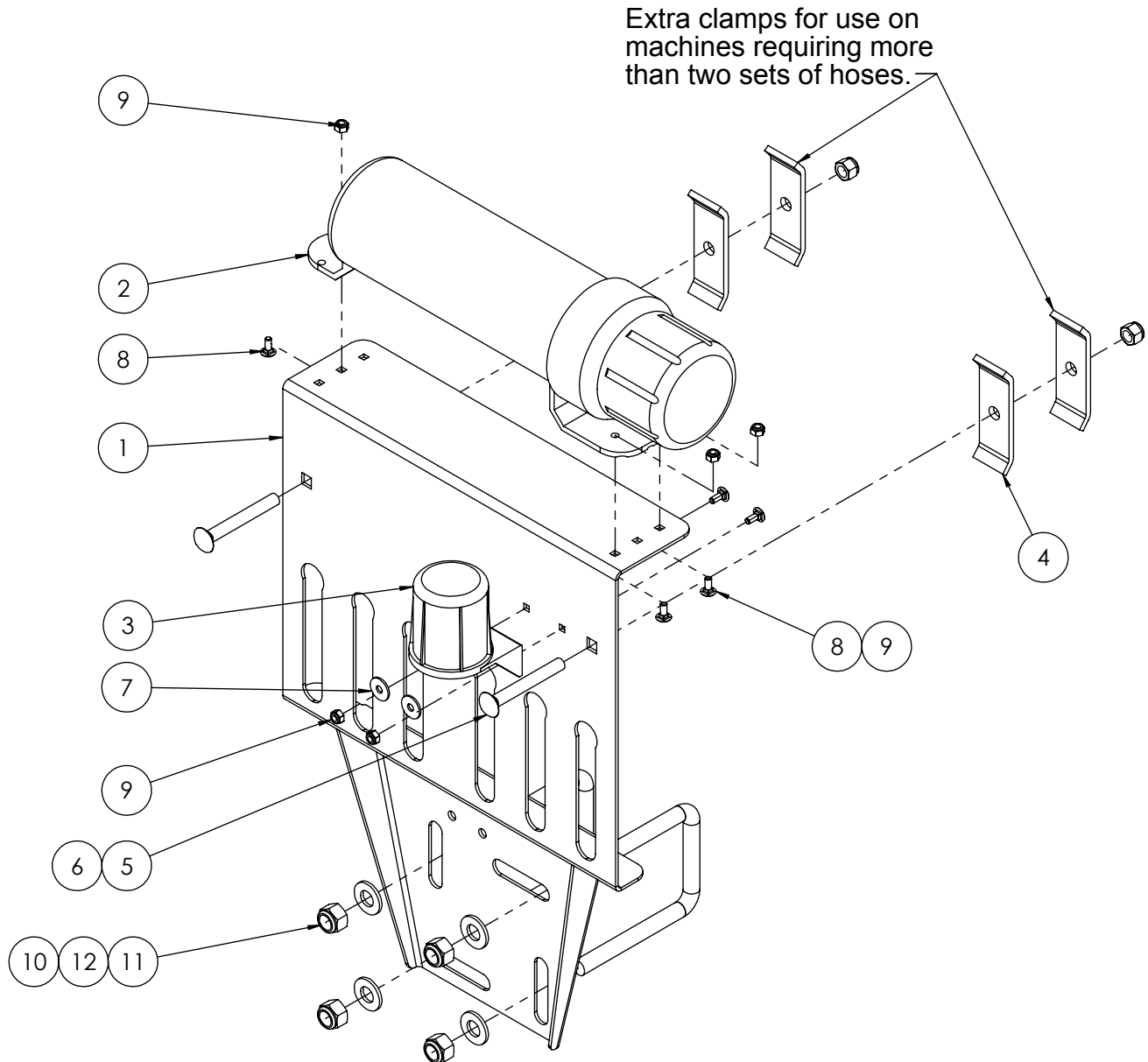
ITEM	QTY	PART NO.	DESCRIPTION
1	1	2225C	550-570-580 CAST CLEVIS TONGUE
2	1	C10592A	72" OUTER TELESCOPE
3	1	A60041	570-580-860-870-9700 INNER TELESCOPE
4	2	BN10L	5/8" NYLOCK NUT NC
5	2	GPSPEC24080	1 1/2" x 8 1/4" LG. WING HINGE PIN
6	1	A50010	TURNBUCKLE
7	1	PPI-42XL	CAT 4 CAST IRON HITCH
USED ONLY WITH CAT #3 OPTION	8	PPI-30XL	CAT #3 CAST CLEVIS
	9	PPI-208VR	CLEVIS FOR CAT 3 HITCH
	10	B1255H	3/4" x 5 1/2" HEX BOLT GR. 8
	11	BF12HS	3/4" HARD STRUCTURAL WASHER
	12	BN12S	3/4" STOVER LOCK NUT
	13	B1680H	1" x 8" NC HEX BOLT GR. 8
	14	BN16L	1-8 NC NYLOCK NUT
	15	GP1600512A05	PIN 1" DIA. x 5 1/2" LG. - 2 HOLES
	16	BSC0515	5/16" x 1 1/2" COTTER PIN
	17	BSC0415	1/4" x 1 1/2" COTTER PIN
	18	BF16S	1" SAE WASHER
	19	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
	20	GF641	1/4"-28NF GREASE FITTING
21	GP2000612B06	1 1/4" x 6 1/2" LG. PIN - 1 HOLE	
22	B0625	3/8" X 2 1/2" LG. GRADE 5	
23	BN06L	3/8"-16NC LOCK NUT	
+	24	GJ8002	8000 LB TONGUE JACK
++	25	GJ5000S	5000lb JACK WITH ROUND MOUNT
	26	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
	27	GHP11	#11 HAIR PIN
	28	GJ652027	20,000 LB SAFETY CHAIN
	29	A60096A	TELESCOPE MOUNT HOSE HOLDER ASSEMBLY
	30	BU0830	1/2" x 3" x 4 1/4" U-BOLT
	31	BN08L	1/2" NYLOCK NUT NC
	32	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
	33	BF16HS	1" HARD STRUCTURAL WASHER

+ Used on 38ft to 50ft machines

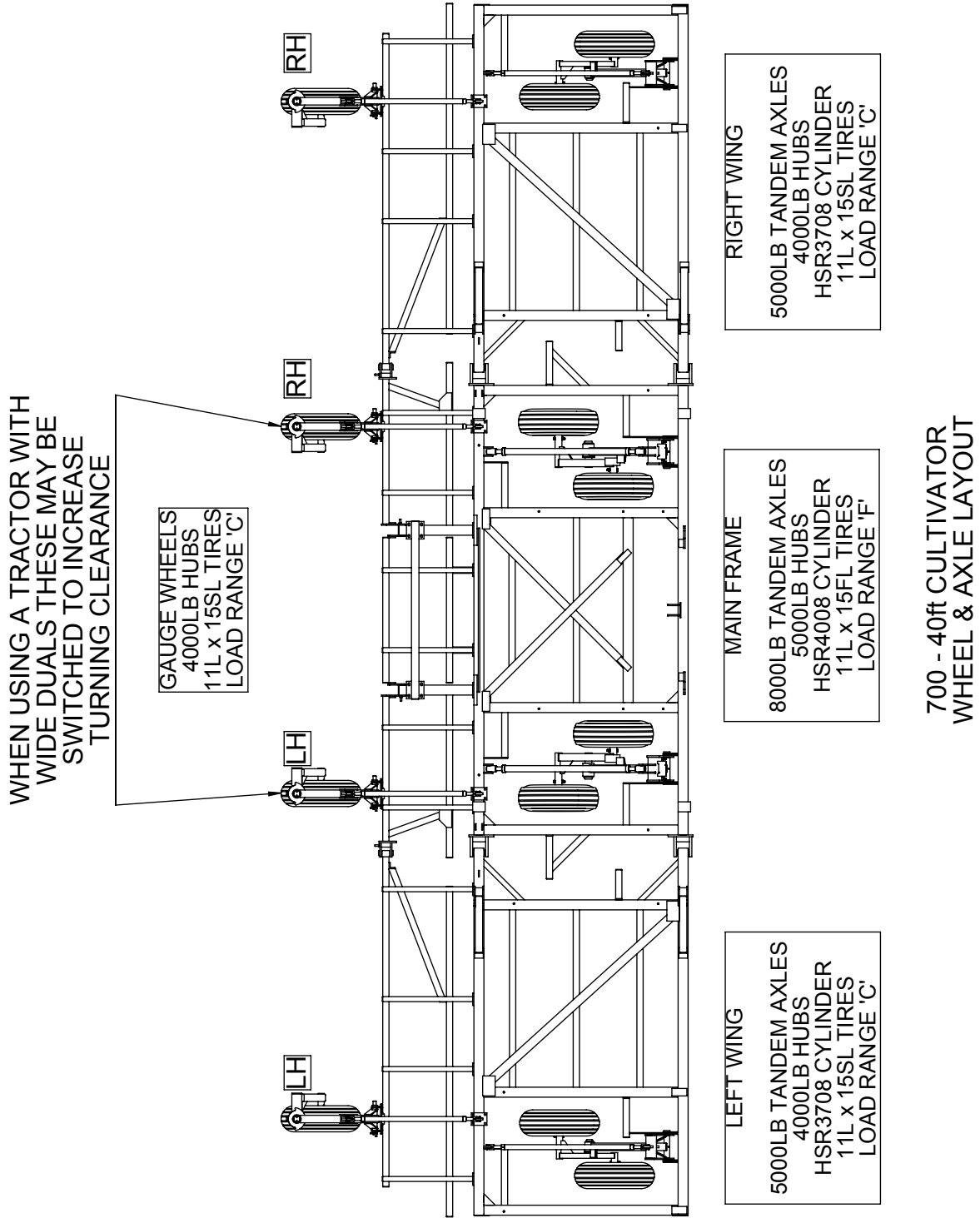
++ Used on 32ft and under machines

Telescope Mount Hose Holder

ITEM	QTY	PART NO.	DESCRIPTION
1	1	A60096	TELESCOPE MOUNT 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	2	BF04	1/4" FLATWASHER
8	5	BC0205	10-24 x 1/2" A307A LOW CARBON ZINC CARRIAGE BOLT
9	5	BN02L	#10-24 NYLOCK NUT
10	2	BU0830	1/2" x 3" x 4 1/4" U-BOLT
11	4	BN08L	1/2" NYLOCK NUT NC
12	4	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER

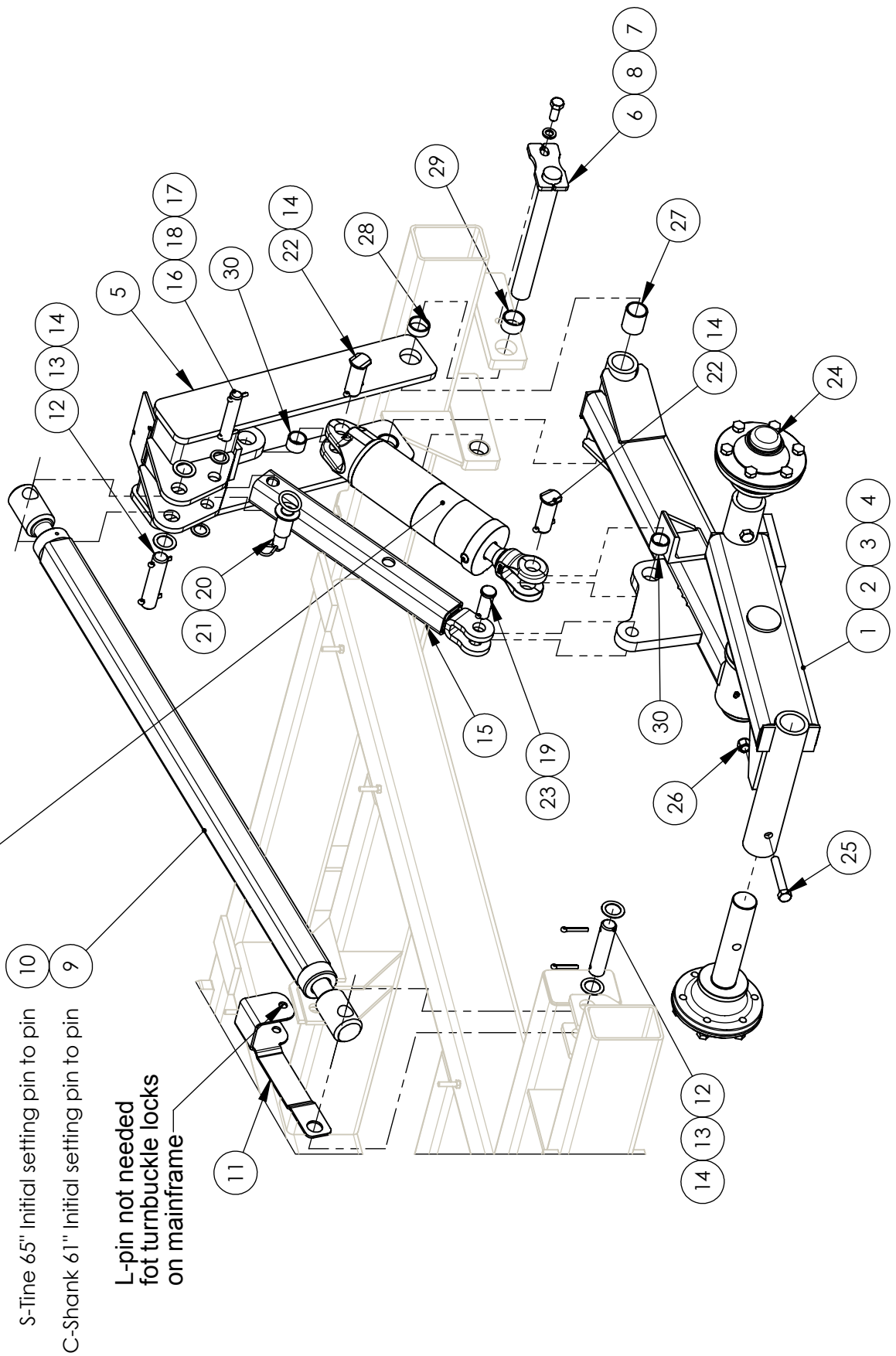


Wheel & Axle Layout



8000lb Axle Installation

Refer to hydraulic layout page for cylinder size



10 S-Tine 65" Initial setting pin to pin
 9 C-Shank 61" Initial setting pin to pin

L-pin not needed for turnbuckle locks on mainframe

COMPLETE ASSEMBLY

LH SHOWN, RH SIMILAR

8000lb Axle Installation

	ITEM	QTY	PART NO.	DESCRIPTION
S-TINE	1	1	C00136L-KIT	8000 LB S-TINE AXLE ASSEMBLY - LH
	2	1	C00136R-KIT	8000 LB AXLE ASSEMBLY - RH
C-SHANK	3	1	C5540L-KIT	8000 LB AXLE ASSEMBLY - LH
	4	1	C5540R-KIT	8000 LB AXLE ASSEMBLY - RH
	5	2	C10013	MAIN FRAME TOWER
	6	2	GPH2401312F	1 1/2" x 13 7/8" LG. AXLE PIN - HARDENED
	7	2	B1015	5/8 X 1 1/2" PLATED BOLT
	8	2	BL10	5/8" LOCKWASHER
C-SHANK	9	2	A60031	2 1/2" TURNBUCKLE 50" TUBE
S-TINE	10	2	A60036	2 1/2" TURNBUCKLE 53" TUBE
	11	2	C10716	2 1/2" TURNBUCKLE LOCK
	12	4	GP2000512A05	1 1/4" x 5 1/2" PIN - 2 HOLES
	13	8	GM30	1 1/4" MACHINE BUSHING
	14	12	BSC0520	5/16" x 2" COTTER PIN
	15	2	C50010	TRANSPORT LOCK ASSEMBLY
	16	2	GP16005A05	PIN 1" DIA. x 5" LG. - 2 HOLES
	17	4	GM26	1" MACHINE BUSHING
	18	4	BSC0515	5/16" x 1 1/2" COTTER PIN
	19	2	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
	20	2	GP1600414C04	1" x 4 3/8" RING & WASHER PIN
	21	2	GHP9	#9 HAIR PIN
	22	4	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
	23	2	BSC0415	1/4" x 1 1/2" COTTER PIN
	24	4	GW5000A	5000 LB HUB AND SPINDLE ASSEMBLY
	25	4	B1040	5/8"NC x 4" LG. HEX BOLT
	26	4	BN10L	5/8" NYLOCK NUT NC
	27	4	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
	28	4	GBB175150062	1 3/4" x 1 1/2" x 5/8" LG. HARD BUSHING
	29	4	GBB175150100	1 3/4" x 1 1/2" x 1" LG. HARD BUSHING
	30	4	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING

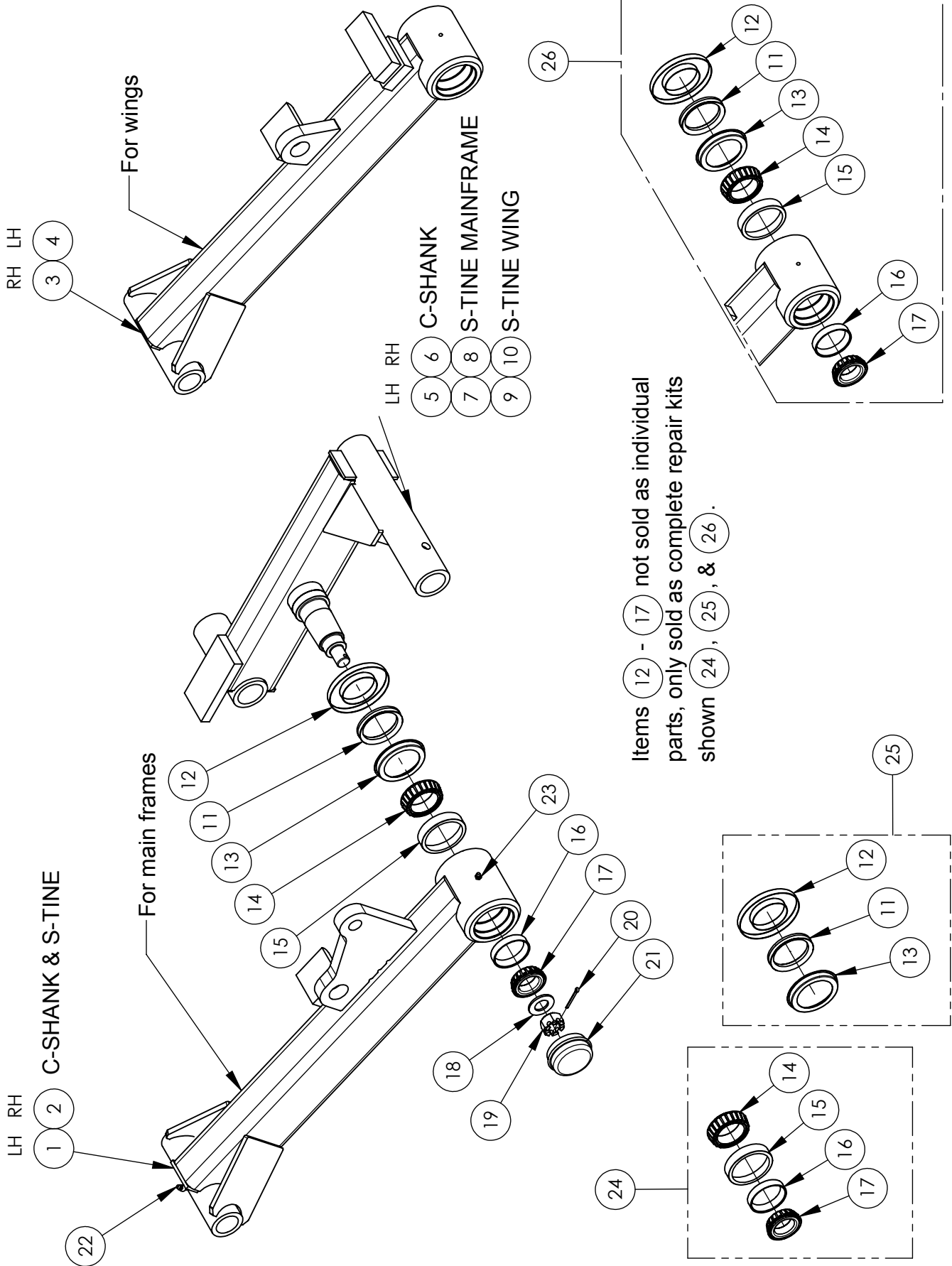


CAUTION

Connect hoses and charge lift axle cylinders with fluid following the procedure in the axle lift hydraulics section of this manual before connecting rod ends of the cylinders.

Check: Wheel nuts/lugs for proper tightness.
(See torque & pressure values on tire page)

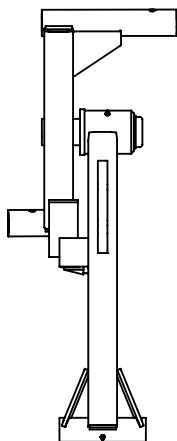
8000lb Axle Assembly



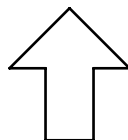
8000lb Axle Assembly

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	C5542L-KIT	8000 LB UPRIGHT BEAM - LH
2	1	C5542R-KIT	8000 LB UPRIGHT BEAM - RH
3	1	C5542WL-KIT	8000 LB WING UPRIGHT BEAM - LH
4	1	C5542WR-KIT	8000 LB WING UPRIGHT BEAM - RH
5	1	C5541L	8000 LB WALKING BEAM - LH
6	1	C5541R	8000 LB WALKING BEAM - RH
7	1	C00137L	8000 LB S-TINE AXLE MAIN WALKING BEAM - LH
8	1	C00137R	8000 LB S-TINE AXLE MAIN WALKING BEAM - RH
9	1	C5541WL	8000 LB WALKING BEAM - WING LH
10	1	C5541WR	8000 LB WALKING BEAM - WING RH
11	1	GW8110VS	8000 LB V-SEAL
12	1	GW8110VW	8000 LB V-SEAL GRASS WRAP GUARD
13	1	GW8110VC	8000 LB V-SEAL COUNTERFACE
14	1	GB506849	8000 INNER CONE
15	1	GB506810	8000 INNER CUP
16	1	GB501310	8000 OUTER CUP
17	1	GB501349	8000 OUTER CONE
18	1	GW8108	1" SPINDLE WASHER
19	1	BN16SF	1" NF SLOTTED HEX NUT
20	1	BSC0317	3/16" x 1 3/4" COTTER PIN
21	1	GW8112	8000 DUST CAP
22	1	GF1688	1/8" NPT GREASE FITTING 45deg
23	1	GF1610	1/8" NPT GREASE FITTING
24	1	GW8111-1	8000LB BEARING KIT
25	1	GW8110V	8000 LB V-SEAL KIT
26	1	GW8111V	8000 LB BEARING WITH V-SEAL KIT

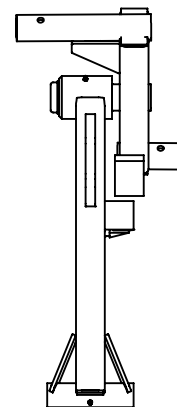
Items (12) - (17) not sold as individual parts, only sold as complete repair kits shown (24), (25), & (26).



**LH AXLE
ASSEMBLY**

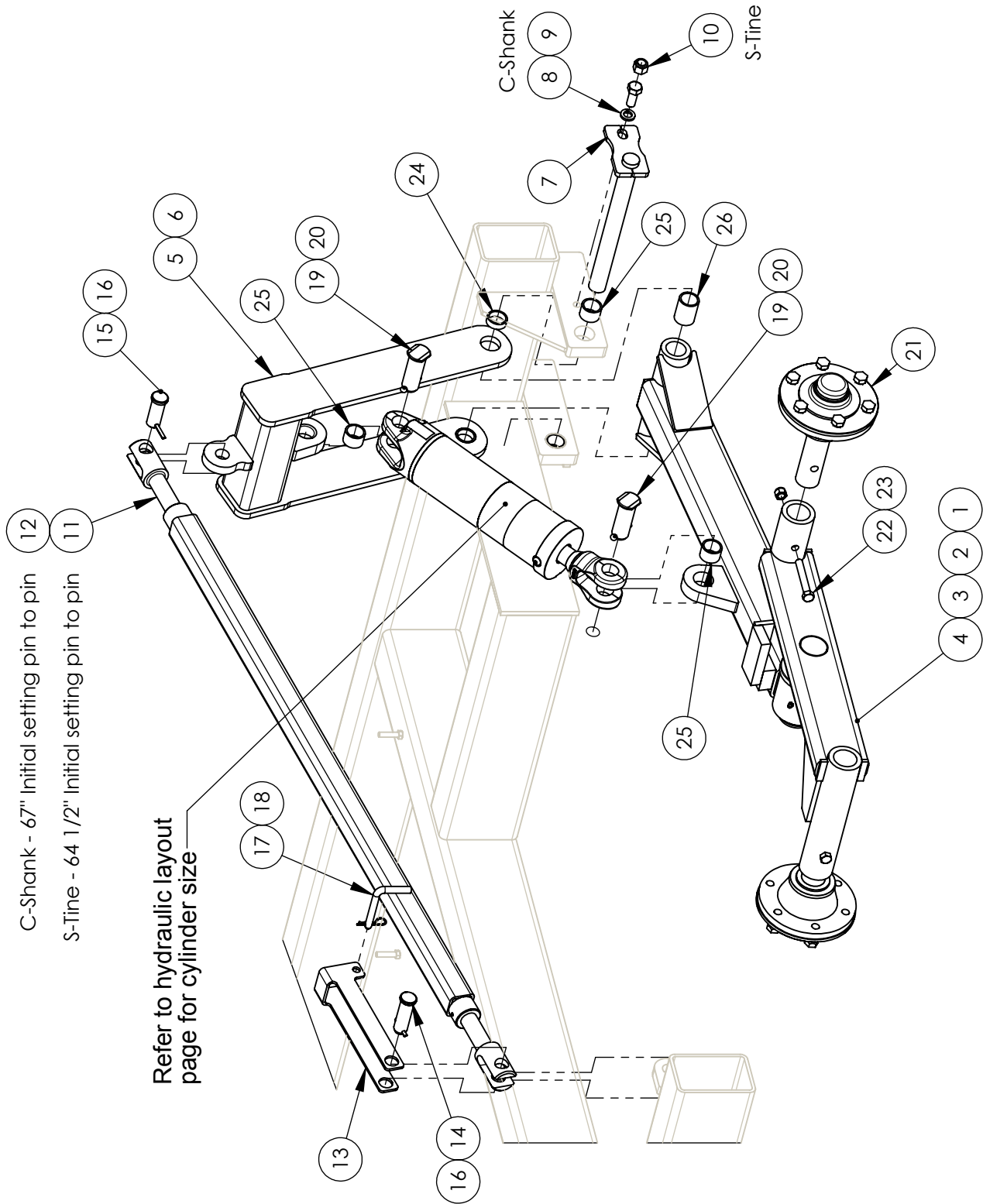


FRONT



**RH AXLE
ASSEMBLY**

5000lb Axle Installation



LH SHOWN, RH SIMILAR

COMPLETE ASSEMBLY

5000lb Axle Installation

	ITEM	QTY	PART NO.	DESCRIPTION
S-TINE	1	1	C00132WR-KIT	5000 LB S-TINE WING AXLE ASSEMBLY - RH
	2	1	C00132WL-KIT	5000 LB S-TINE WING AXLE ASSEMBLY - LH
C-SHANK	3	1	C4540WR-KIT	5000 LB WING AXLE ASSEMBLY - RH
	4	1	C4540WL-KIT	5000 LB WING AXLE ASSEMBLY - LH
ALL OTHERS	5	1	C4547B	TOWER,450/550/570 WING
580-52/62, 700-62'	6	1	T00388	SECONDARY WING AXLE TOWER
	7	1	GPH2001314F	1 1/4" x 13 1/2" LG. AXLE PIN - HARDENED
C-SHANK	8	1	BL10	5/8" LOCKWASHER
	9	1	B1015	5/8 X 1 1/2" PLATED BOLT
S-TINE	10	1	BN10L	5/8" NYLOCK NUT NC
S-TINE	11	1	A60025	1 1/4" TURNBUCKLE - 51.5" TUBE
C-SHANK	12	1	A60020	1 1/4" TURNBUCKLE 54" TUBE
	13	1	FL00051	LIGHT TURNBUCKLE LOCK
	14	1	GP1600314H04	PIN 1" DIA. x 3 1/4" LG. WITH HEAD
	15	1	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
	16	2	BSC0415	1/4" x 1 1/2" COTTER PIN
	17	1	GP0800312L03	1/2" x 3 1/2" PARKING STAND PIN
	18	1	GHP11	#11 HAIR PIN
	19	2	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
	20	2	BSC0520	5/16" x 2" COTTER PIN
	21	2	GW4000A	4000 LB HUB AND SPINDLE ASSEMBLY
	22	2	B0835	1/2 X 3 1/2" BOLT
	23	2	BN08L	1/2" NYLOCK NUT NC
	24	2	GBB150125050	1 1/2" x 1 1/4" x 1/2" LG. HARD BUSHING
	25	4	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
	26	2	GBB150125200	1 1/2" x 1 1/4" x 2" LG. HARD BUSHING

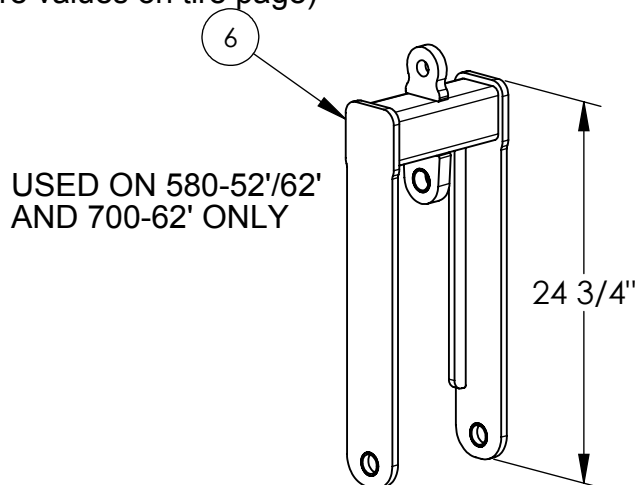
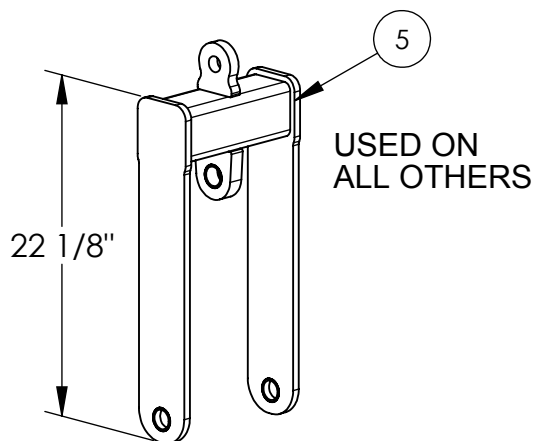
Quantities for one wing only, double quantities shown per machine



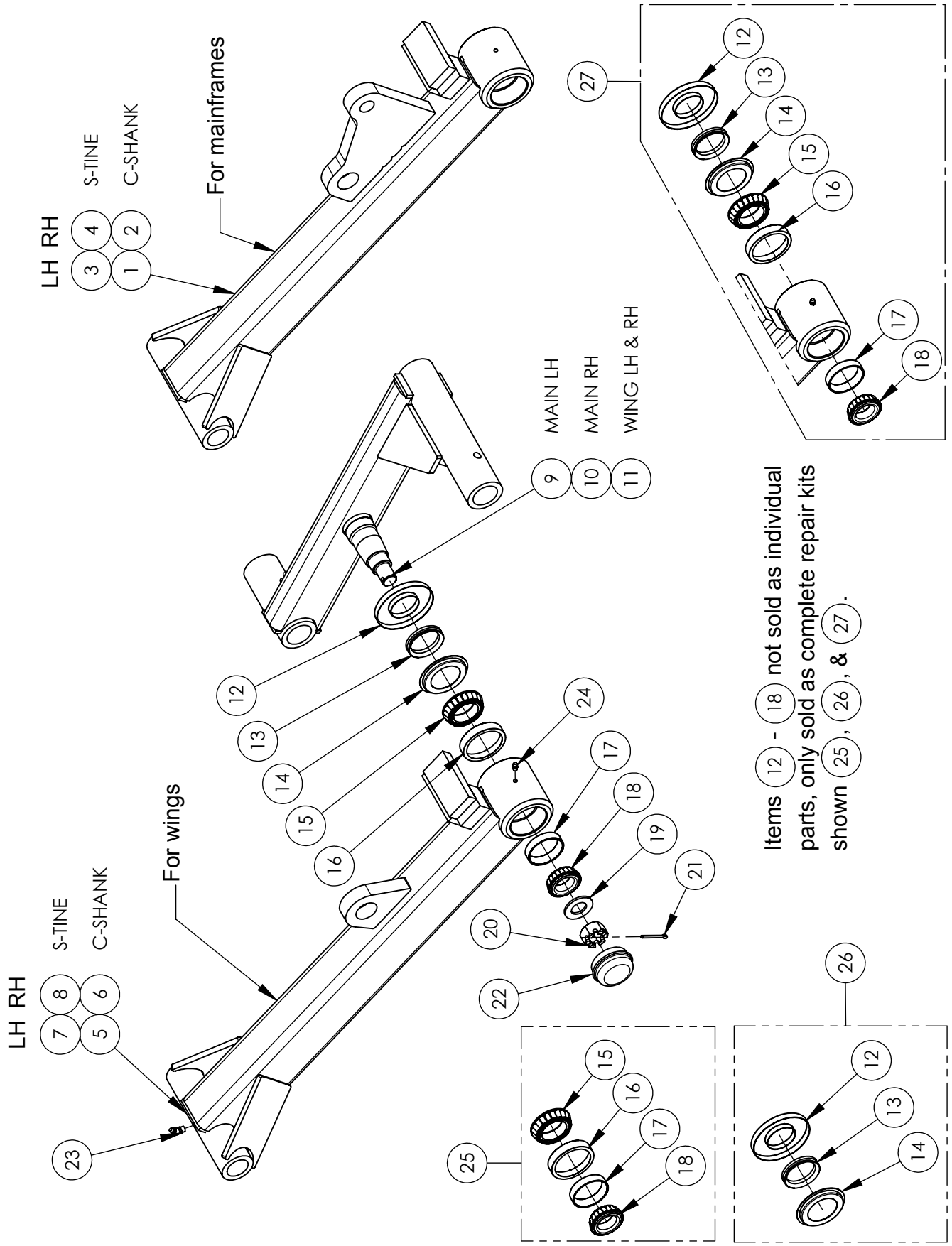
CAUTION

Connect hoses and charge lift axle cylinders with fluid following the procedure in the hydraulics installation before connecting rod ends of the cylinders.

Check: Wheel nuts/lugs for proper tightness.
(See torque & pressure values on tire page)



5000lb Axle Assembly

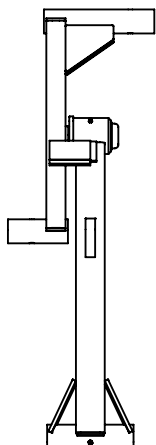


Items 12 - 18 not sold as individual parts, only sold as complete repair kits shown 25, 26, & 27.

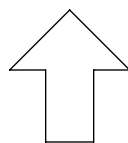
5000lb Axle Assembly

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	C4542L-KIT	5000 LB MAIN UPRIGHT AXLE - LH
2	1	C4542R-KIT	5000 LB MAIN UPRIGHT AXLE - RH
3	1	C00135L-KIT	5000 LB S-TINE MAIN UPRIGHT AXLE - LH
4	1	C00135R-KIT	5000 LB S-TINE MAIN UPRIGHT AXLE - RH
5	1	C4542WL-KIT	5000 LB WING UPRIGHT AXLE - LH
6	1	C4542WR-KIT	5000 LB WING UPRIGHT AXLE - RH
7	1	C00133WL-KIT	5000 LB S-TINE WING UPRIGHT AXLE - LH
8	1	C00133WR-KIT	5000 LB S-TINE WING UPRIGHT AXLE - RH
9	1	C4541L	5000 LB MAIN WALKING BEAM - LH
10	1	C4541R	5000 LB MAIN WALKING BEAM - RH
11	1	C4541	5000 LB WALKING BEAM FOR WINGS
12	1	GW5110VW	5000/5500 LB V-SEAL GRASS WRAP GUARD
13	1	GW5110VS	5000/5500 LB V-SEAL
14	1	GW5110VC	5000/5500 LB SEAL COUNTERFACE
15	1	GB603049	5000/5500 LB INNER CONE
16	1	GB603011	5000/5500 LB INNER CUP
17	1	GB48510	5000/5500 LB OUTER CUP, 3000 LB INNER CUP
18	1	GB48548	5000/5500 LB OUTER CONE, 3000 LB INNER CONE
19	1	BF16-9	1" HARD SAE FLAT WASHER GR.9 PLATED
20	1	BN16SF	1" NF SLOTTED HEX NUT
21	1	BSC0317	3/16" x 1 3/4" COTTER PIN
22	1	GW5112	5000/5500 LB DUST CAP
23	1	GF1688	1/8" NPT GREASE FITTING 45deg
24	1	GF641	1/4"-28NF GREASE FITTING
25	1	GW5111-1	5000LB BEARING KIT
26	1	GW5110V	5000/5500 LB V-SEAL KIT
27	1	GW5111V	5000/5500 LB BEARING WITH V-SEAL KIT

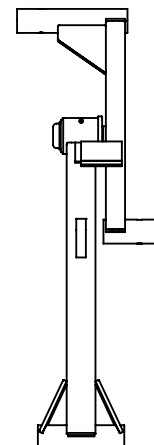
Items (12) - (18) not sold as individual parts, only sold as complete repair kits shown (25), (26), & (27).



**LH AXLE
ASSEMBLY**

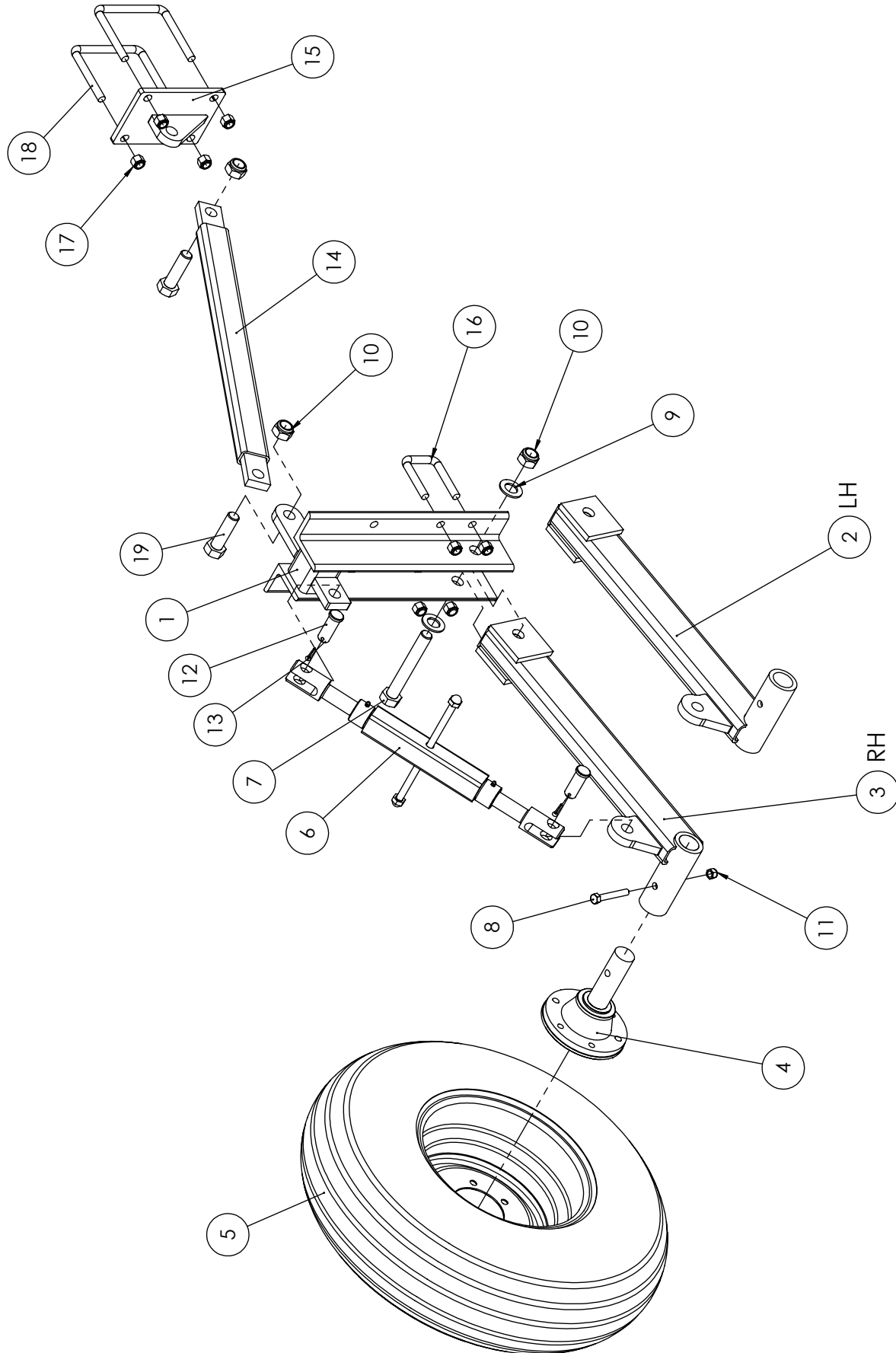


FRONT



**RH AXLE
ASSEMBLY**

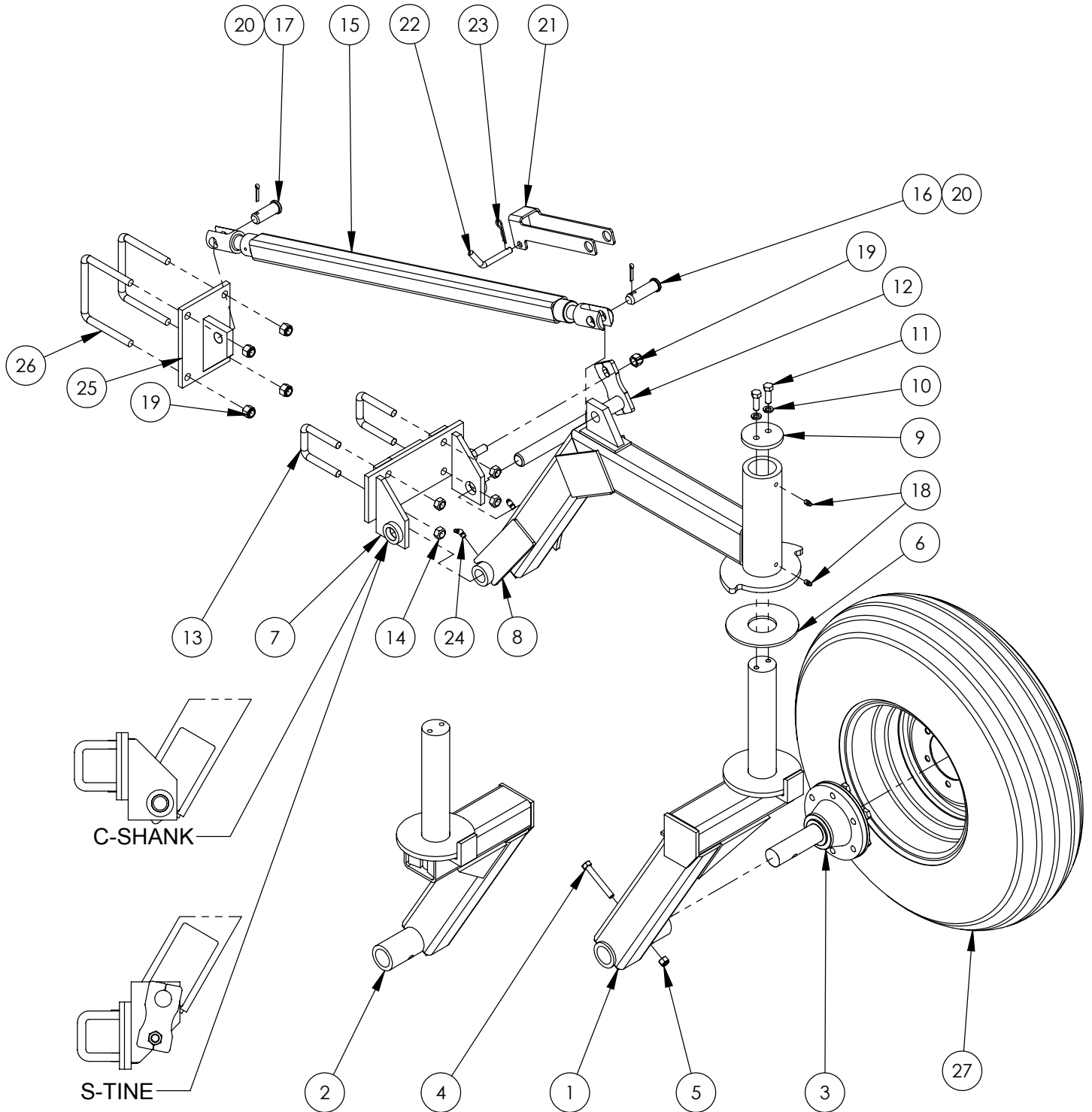
Standard Gauge Wheel Assembly & Parts



Standard Gauge Wheel Assembly & Parts

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C00039	SIMPLE GAUGE WHEEL MOUNT
2	1	C00038L	SIMPLE GAUGE WHEEL AXLE - LH
3	1	C00038R	SIMPLE GAUGE WHEEL AXLE - RH
4	1	GW4000A	4000 LB HUB AND SPINDLE ASSEMBLY
5	1	GW11156	11L x 15SL x 6 BOLT WHEEL & TIRE (8 PLY REGULAR)
6	1	A50010	TURNBUCKLE
7	1	B1670	1"NC x 7" HEX BOLT
8	1	B0835	1/2 X 3 1/2" BOLT
9	2	BF16HS	1" HARD STRUCTURAL WASHER
10	3	BN16L	1-8 NC NYLOCK NUT
11	1	BN08L	1/2" NYLOCK NUT NC
12	2	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
13	2	BSC0415	1/4" x 1 1/2" COTTER PIN
14	1	C10819	S-TINE RIGID GAUGE WHEEL BRACE
15	1	C10818	S-TINE RIGID GAUGE WHEEL FRAME BRACKET
16	2	BU1025	U-BOLT 5/8" x 2 1/2" x 4"
17	8	BN10L	5/8" NYLOCK NUT NC
18	2	BU1061	U-BOLT 5/8" x 6 1/16" x 5 1/2"
19	2	B1635	1" NC x 3 1/2" HEX BOLT

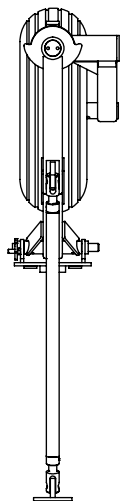
Land Hugger Gauge Wheel Assembly & Parts



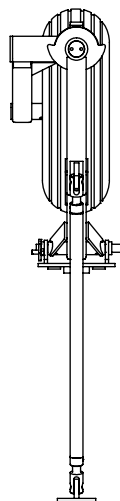
NOTE: ORIENTATION OF LAND HUGGER GAUGE WHEEL MOUNT IS DIFFERENT FOR C-SHANK AND S-TINE MACHINES

Land Hugger Gauge Wheel Assembly & Parts

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	T00151	WING BOGEY WHEEL - LH
2	1	T00152	WING BOGEY WHEEL - RH
3	1	GW4000A	4000 LB HUB AND SPINDLE ASSEMBLY
4	1	B0835	1/2"-13NC x 3 1/2" LG. HEX BOLT
5	1	BN08L	1/2" NYLOCK NUT NC
6	1	T00314	6 1/2" OD x 2 9/16" ID x 1/4" UHMW WASHER
7	1	C11012	LAND HUGGER GAUGE WHEEL MOUNT
8	1	C11011	NEW CASTER GAUGE WHEEL ARM
9	1	FL00037	3/8 X 3 3/4" BOGEY WHEEL CAP
10	2	BL08	1/2" SPRING WASHER
11	2	B0815	1/2" x 1 1/2" HEX BOLT
12	1	GPH2001314F	1 1/4" x 13 1/2" LG. AXLE PIN - HARDENED
13	2	BU1025	U-BOLT 5/8" x 2 1/2" x 4"
14	4	BN10S	5/8" NC STOVER LOCK NUT
15	1	A60021	450 WING TURNBUCKLE - 40" TUBE
16	1	GP1600314H04	PIN 1" DIA. x 3 1/4" LG. WITH HEAD
17	1	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
18	2	GF1610	1/8" NPT GREASE FITTING
19	5	BN10L	5/8" NYLOCK NUT NC
20	2	BSC0415	1/4" x 1 1/2" COTTER PIN
21	1	FL00051	LIGHT TURNBUCKLE LOCK
22	1	GP0800312L03	1/2" x 3 1/2" PARKING STAND PIN
23	1	GHP11	#11 HAIR PIN
24	2	GF1688	1/8" NPT GREASE FITTING 45deg
25	1	C10818	S-TINE RIGID GAUGE WHEEL FRAME BRACKET
26	2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
27	1	GW11156	11L x 15SL x 6 BOLT WHEEL & TIRE (8 PLY REGULAR)

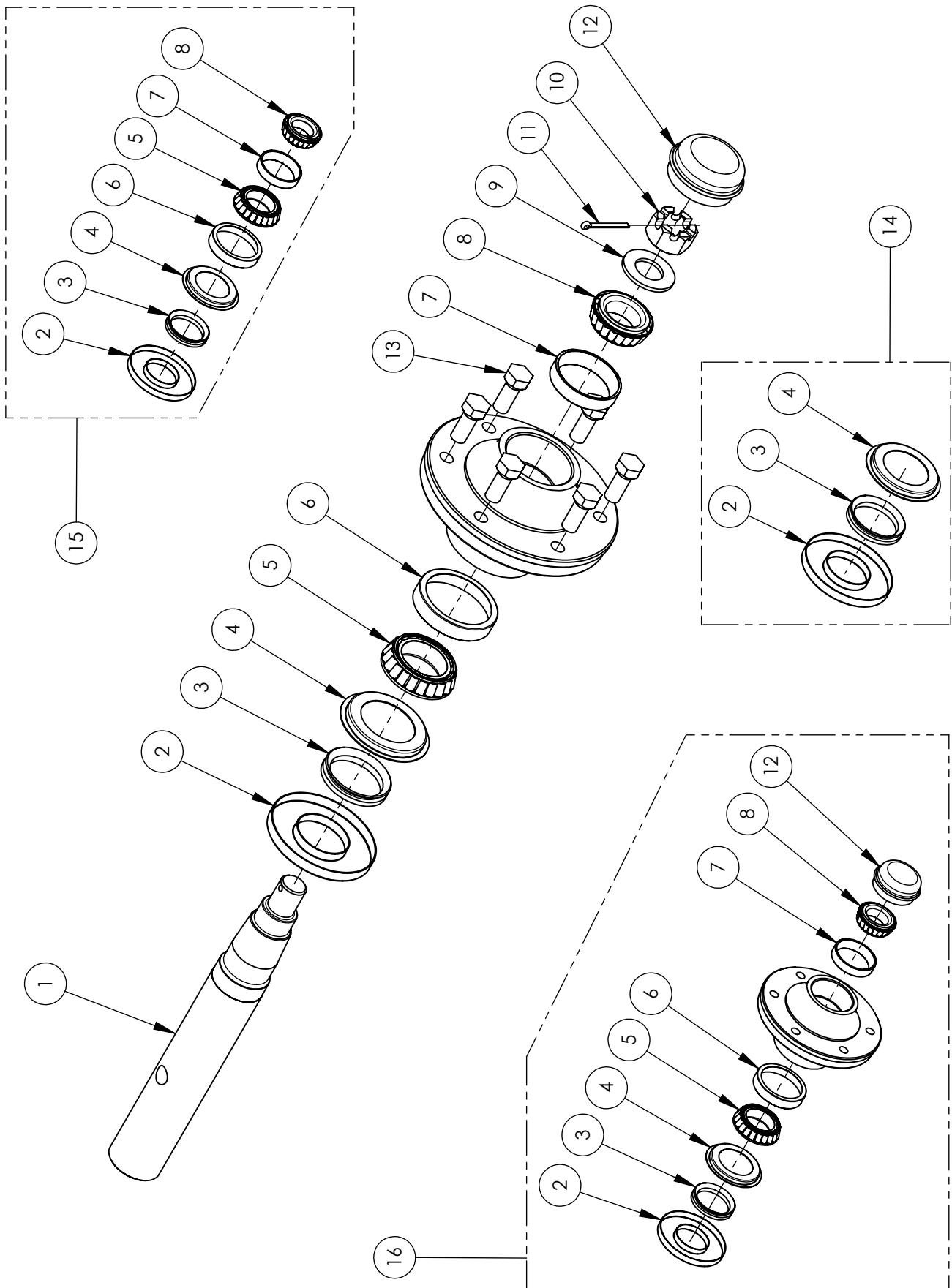


LH GAUGE WHEEL



RH GAUGE WHEEL

4000lb & 5000lb Hub & Spindle Assembly



5000 lb Hub and 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

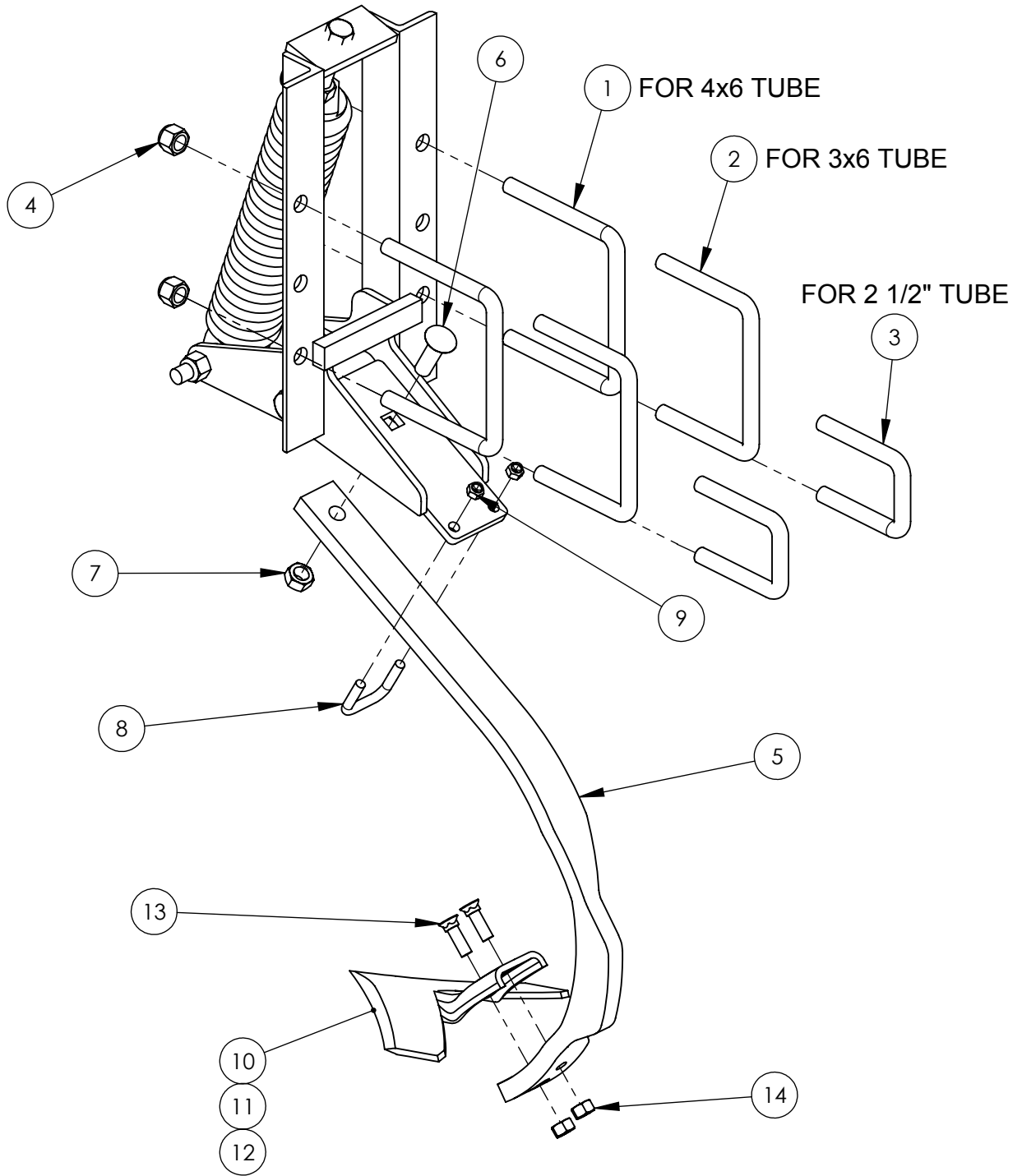
Complete assembly available as part number GW5000A (includes hub, spindle, bearings, seals, dust cap, and hardware).

4000 lb Hub and Spindle Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW4010	4000 LB SPINDLE - 10" LG.
2	1	GW4110VW	4000 LB GRASS WRAP
3	1	GW4110VS	4000 LB V-SEAL
4	1	GW4110VC	4000 LB SEAL COUNTER FACE
5	1	GB29749	4000 LB INNER CONE
6	1	GB29710	4000 LB INNER CUP
7	1	GB67010	4000 LB OUTER CUP
8	1	GB67049	4000 LB OUTER CONE
9	1	BF16-9	1" HARD SAE FLAT WASHER GR.9 PLATED
10	1	BN16JS	1"-14NF SLOTTED JAM NUT
11	1	BSC0317	3/16" x 1 3/4" COTTER PIN
12	1	GW4112	4000 LB DUST CAP
13	6	BW0912	9/16"-18 x 1 1/4" WHEEL BOLT
14	1	GW4110V	4000 LB V-SEAL KIT
15	1	GW4111V	4000LB BEARING WITH V-SEAL KIT
16	1	GW4000B	4000 LB HUB WITH BEARINGS, SEAL, & DUST CAP

Complete assembly available as part number GW4000A (includes hub, spindle, bearings, seals, dust cap, and hardware).

Shank Assembly & Parts

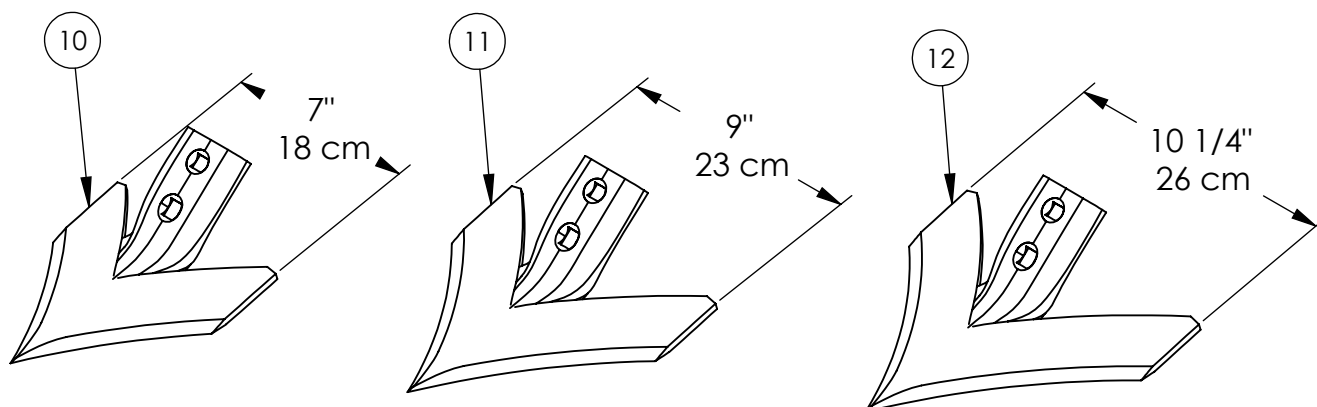


Shank Assembly & Parts

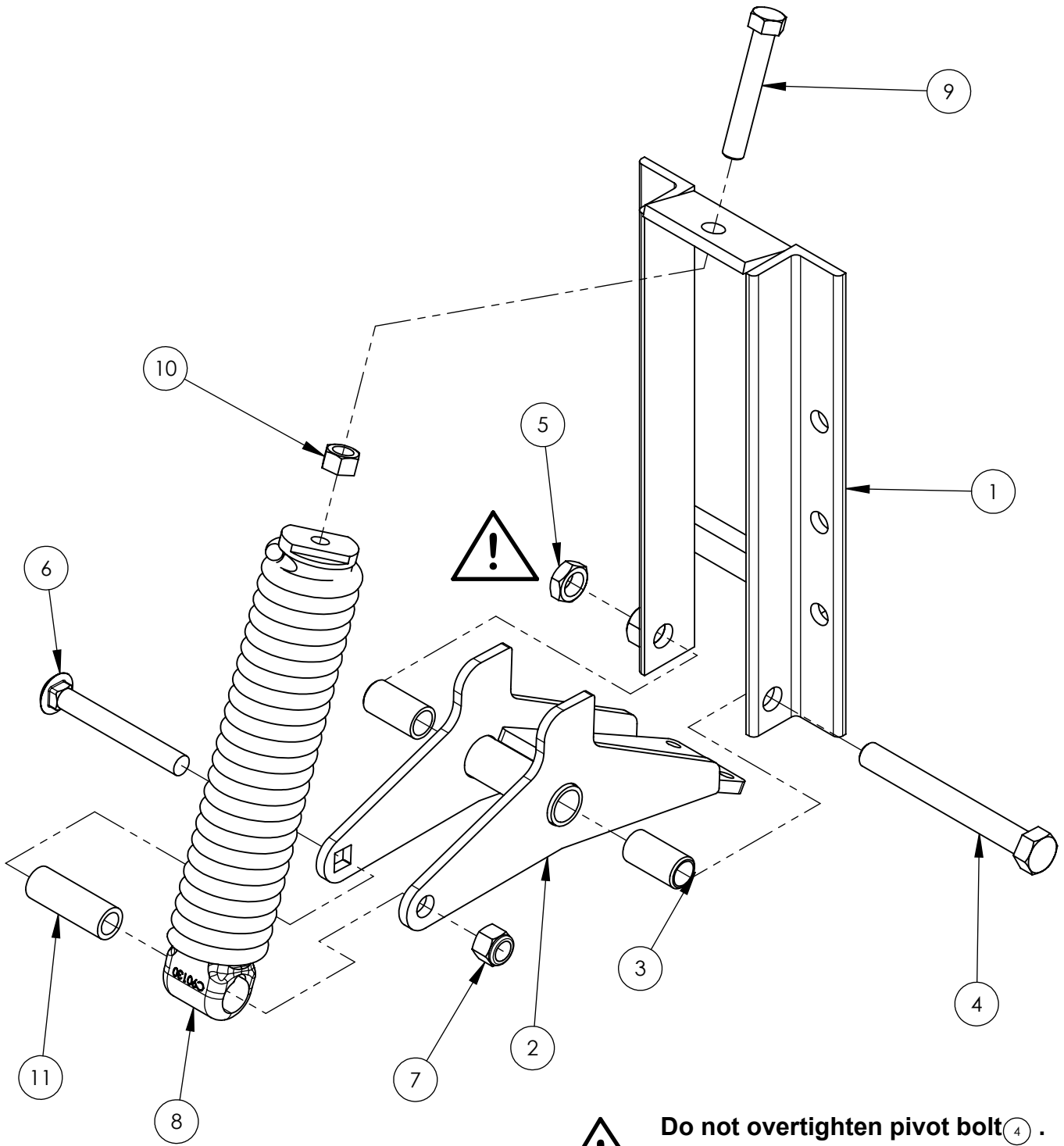
ITEM	QTY	PART NO.	DESCRIPTION
1	2	BU1061	U-BOLT 5/8" x 6 1/16" x 5 1/2"
2	2	BU1062	U-BOLT 5/8" x 6" x 4 1/2"
3	2	BU1025	U-BOLT 5/8" x 2 1/2" x 4"
4	4	BN10L	5/8" NYLOCK NUT NC
5	1	CT5261	FORGED C-SHANK EDGE BENT LEAF 3/4 X 1 3/4"
6	1	BC1020H	5/8"NC x 2" LG. CARRIAGE BOLT
7	1	BN10S	5/8" NC STOVER LOCK NUT
8	1	BU0617	3/8 X 1 3/4 X 1 3/4" U-BOLT
9	2	BN06S	3/8"-16NC STOVER LOCK NUT
10	1	CT5074	7" SWEEP
11	1	CT5094	9" SWEEP
12	1	CT5107	10 1/4" SWEEP x 7.5 mm THICK
13	2	BP0715	7/16"NC x 1 1/2" PLOW BOLT
14	2	BN07H	7/16"NC HEAVY HEX NUT

Shank head assembly is preassembled at the factory. See shank head parts drawing for replacement parts for shank head.

1. Insert shank leaf (5) into shank head. Retain leaf with 5/8" x 2" carriage bolt (6) and 5/8" lock nut (7). Place 3/8" x 1 3/4" x 1 3/4" u-bolt (8) over leaf and tighten with 3/8" lock nuts (9).
2. Attach sweep (10, 11, or 12) to front of shank with 7/16" x 1 1/2" plow bolts (13) and 7/16" heavy hex nuts (14).
3. Mount shanks on frame using proper u-bolts, (1, 2, or 3) and 5/8" lock nuts (4). See shank layout drawing for shank mounting locations.



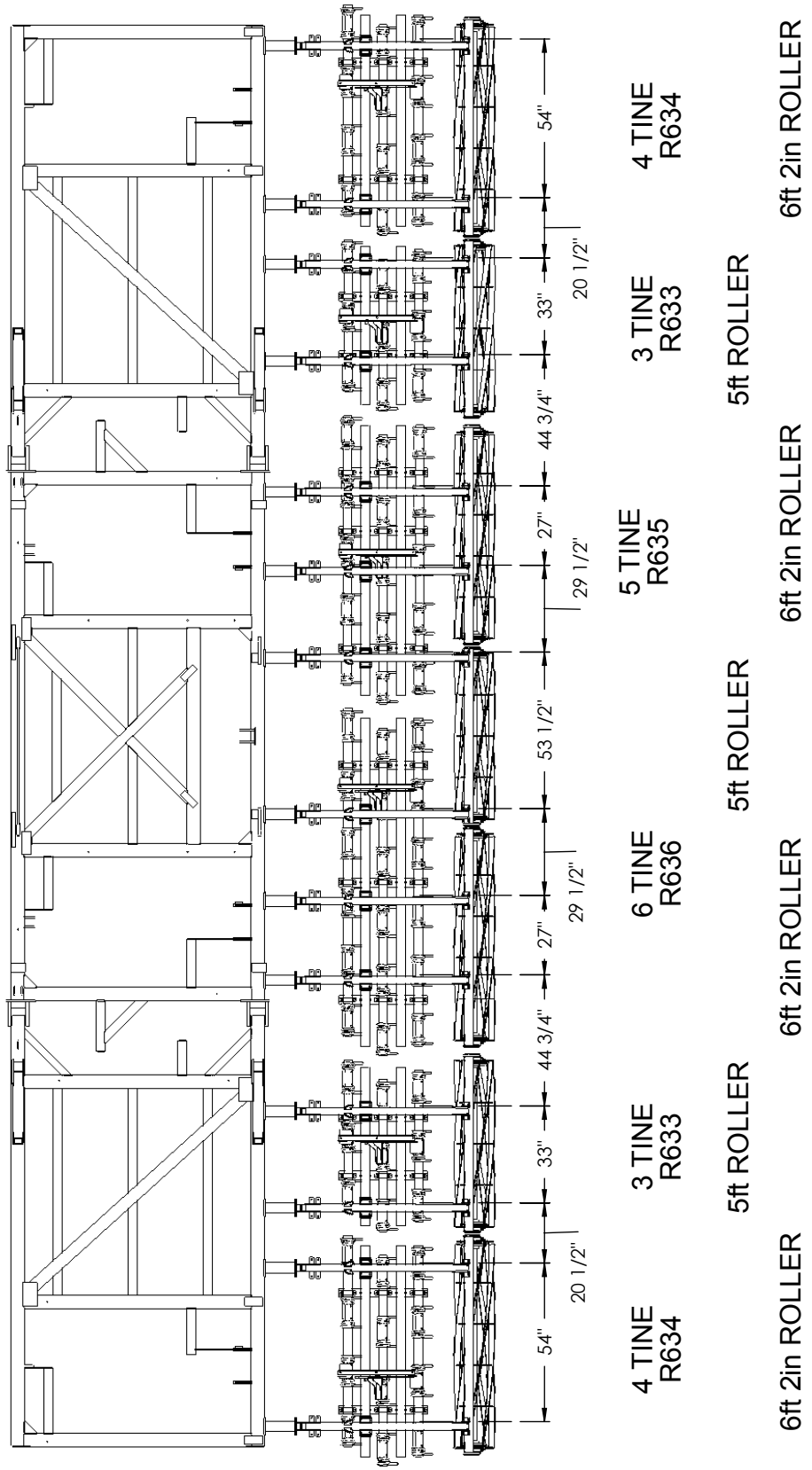
Shank Head Assembly & Parts



Do not overtighten pivot bolt (4) .
Tighten pivot bolt until snug, then lock with jam nut (5) .

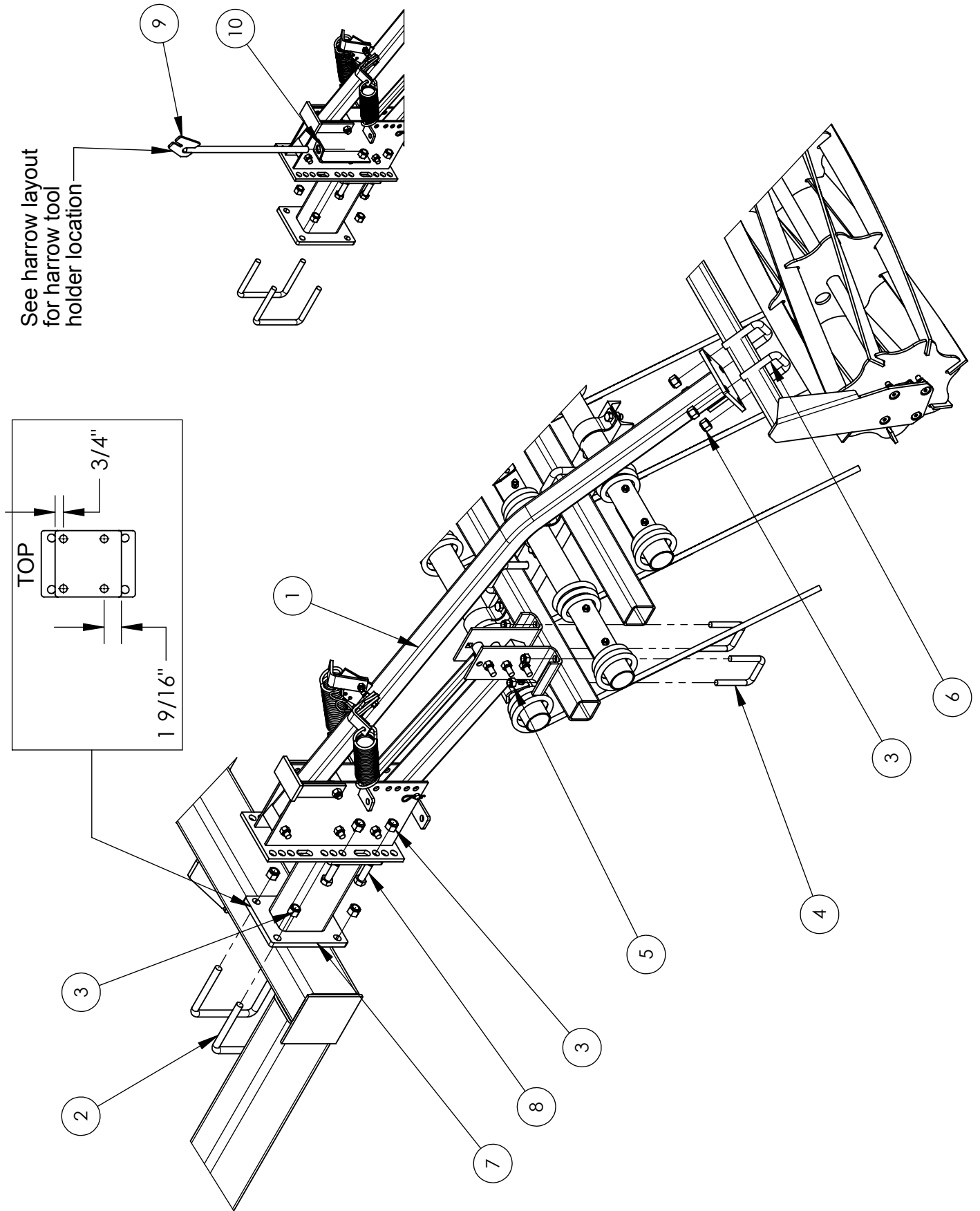
Shank Head Assembly & Parts

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	C90124	OUTER C-SHANK WELDMENT
2	1	C90122	INNER C-SHANK WELDMENT
3	2	A60059	1 OD-3/4 ID X 1 15/16" LONG BUSHING
4	1	B1265	3/4"NC x 6 1/2" LG. HEX BOLT GR. 5
5	1	BN12J	3/4" JAM NUT
6	1	BC1050H	5/8"NC x 5" LG. CARRIAGE BOLT GR. 5
7	1	BN10L	5/8" NYLOCK NUT NC
8	1	GSE0824A	1/2" RESET SPRING 24 TOTAL COILS W/ PLUGS
9	1	B1040TH	5/8" X 4" FULL THREAD HEX BOLT GR.5
10	1	BN10H	5/8" NC HEX NUT GR.8
11	1	ZD101079	1" OD x 11/16" ID x 2 7/8" DOM



**700 - 40' C-SHANK HARROW LAYOUT
1/2" TINES + SINGLE ROLLER**

Harrow Installation



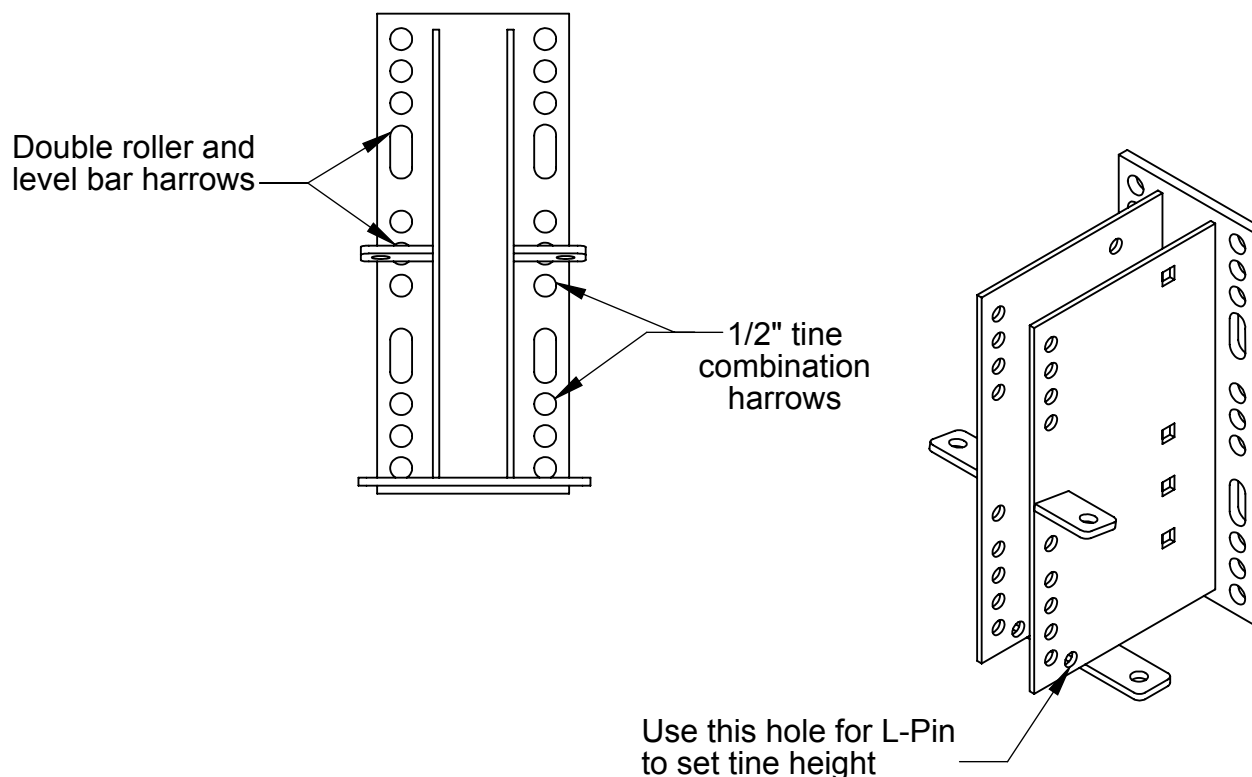
Harrow Installation

ITEM NO.	PART NUMBER	DESCRIPTION
1	RB1091	62" HARROW ARM ASSEMBLY
2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
3	BN10L	5/8" NYLOCK NUT NC
4	BU0825	1/2" x 2 1/2 x 3 1/2 U-BOLT
5	BN08L	1/2" NYLOCK NUT NC
6	BU1020	5/8" x 2 x 3 1/2" U-BOLT
7	R80034	10" EXTENSION
8	B1020	5/8 X 2" BOLT GR. 5 PLATED
9	RB0025	TOOL,HARROW TIGHTENER
10	RB0026	HOLDER,HARROW TOOL

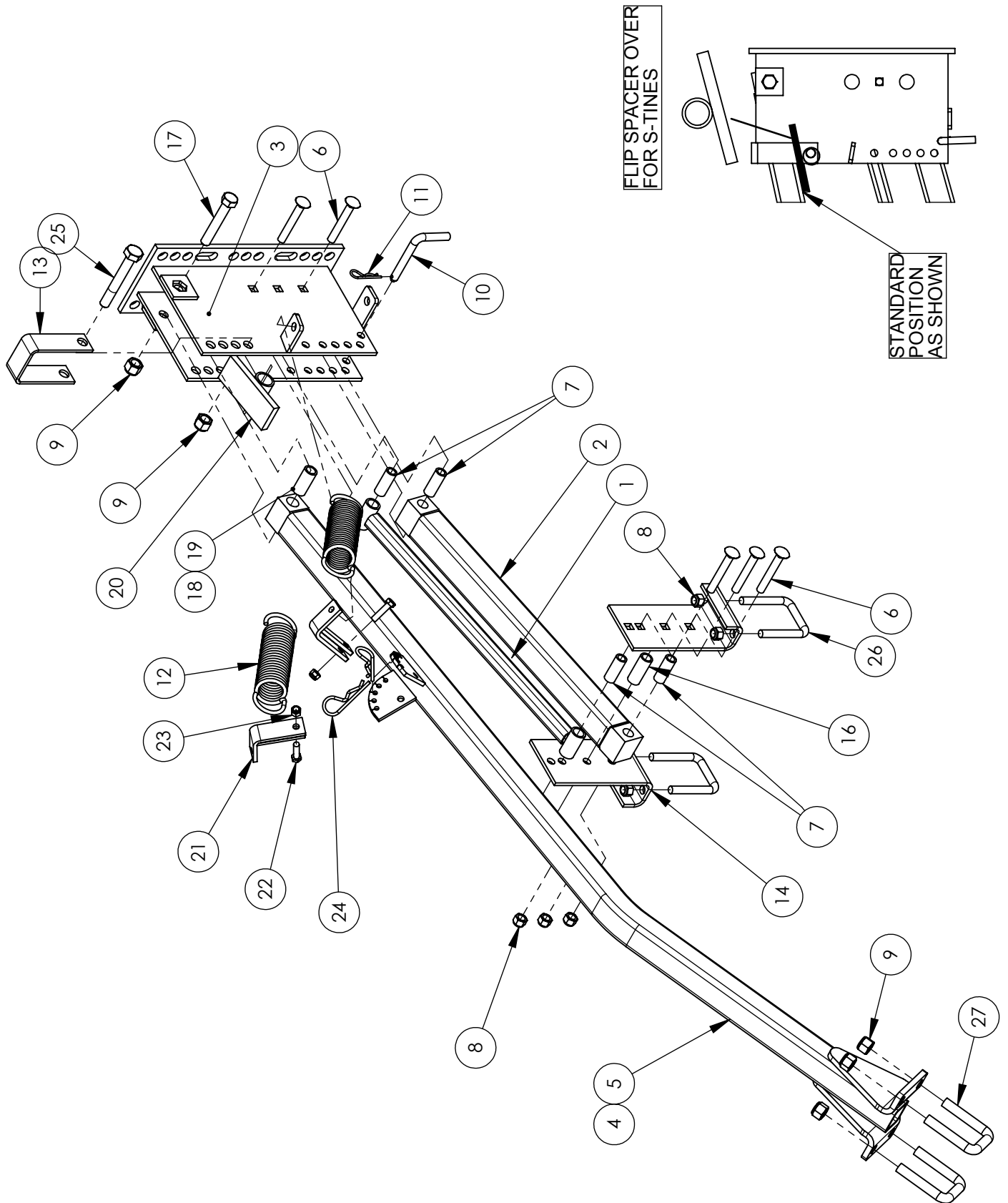
Mount harrow tool holder between plate and nut on leftmost head on the main frame (see layout for location). Harrow tool sits in holder.

Leave 3-4" between rollers on wings and rollers on main frame, and leave 1-2" between all other rollers.

Hole settings for harrow heads to extensions



Harrow Arm Assembly



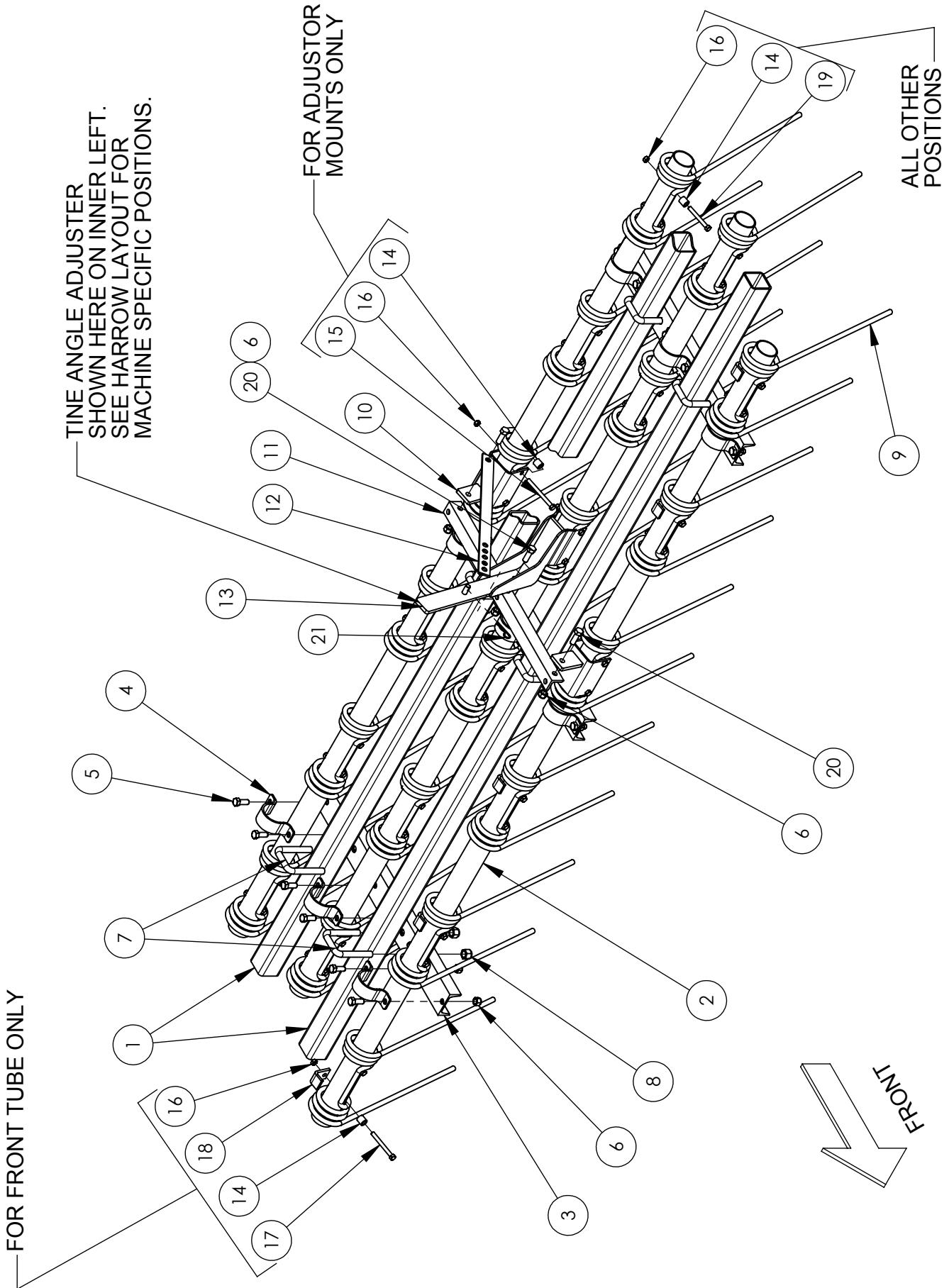
Harrow Arm Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	R30012	PARALLEL LINKAGE BAR
2	1	R30006	PARALLEL LINKAGE ARM
3	1	R80099	HEAD,SALFORD HARROW FOR 5/8" UPPER PIVOT BOLT
4	1	R80100	62" HARROW ARM FOR 5/8" PIVOT AND U-BOLTS
5	1	R80100A	62" HARROW ARM W/ KIT (REPLACES RB1125)
6	5	BC0835H	1/2" X 13NC X 3-1/2" LG. CARRIAGE BOLT GR. 5 SHORT THREAD
7	4	R0030	NYLON BUSHING 3/4" OD x 1/2" ID x 1.94 LG.
8	9	BN08L	1/2" NYLOCK NUT NC
9	6	BN10L	5/8" NYLOCK NUT NC
10	1	GP0800312L03	1/2" x 3 1/2" PARKING STAND PIN
11	1	GHP11	#11 HAIR PIN
12	2	R0035	2" x 10" HARROW ARM SPRING
++	1	R80128	ROLLER ARM STOP BRACKET (LONG)
14	1	R80037L	TINE SECTION UPRIGHT PLATE LEFT
15	1	R80037R	TINE SECTION UPRIGHT PLATE RIGHT
16	1	R0028	STEEL HEAD SPACER 2 1/8" LG.
17	2	B1037ST	5/8" - 11NC X 3 3/4" SHORT THREAD BOLT
18	1	R80098	7/8"OD NYLATRON BUSHING
19	1	R80106	7/8"OD - 0.520"ID NYLATRON ROD
20	1	R80096	HARROW ARM SPACER
21	2	RB0021	TIGHTENER,SINGLE SPRING
22	2	B0615	3/8" X 1 1/2" LG. GRADE 5
23	2	BN06L	3/8"-16NC LOCK NUT
24	2	GHP9	#9 HAIR PIN
25	1	B1045	5/8 x 4 1/2" HEX BOLT GR 5
26	2	BU0825	1/2" x 2 1/2 x 3 1/2 U-BOLT
27	2	BU1020	5/8" x 2 x 3 1/2" U-BOLT

NOTES:

++ USE R80130 FOR S-TINE CULTIVATORS

Tine Harrow Assembly



Tine Harrow Assembly

1/2" - 3 TINE HARROW ASSEMBLY PART NO. R633

ITEM NO.	PART NO.	DESCRIPTION
1	U252503054	TUBE 2 1/2 x 2 1/2 x 3/16"W x 54" LG.
2	R6063	TINE PIPE FOR 1/2" (3-TINE)

1/2" - 4 TINE HARROW ASSEMBLY PART NO. R634

ITEM NO.	PART NO.	DESCRIPTION
1	U252503072	TUBE 2 1/2 x 2 1/2 x 3/16"W x 72" LG.
2	R6064	TINE PIPE FOR 1/2" (4-TINE)

1/2" - 5 TINE HARROW ASSEMBLY PART NO. R635

ITEM NO.	PART NO.	DESCRIPTION
1	U252503092	TUBE 2 1/2 x 2 1/2 x 3/16"W x 92" LG.
2	R6065	TINE PIPE FOR 1/2" (5-TINE)

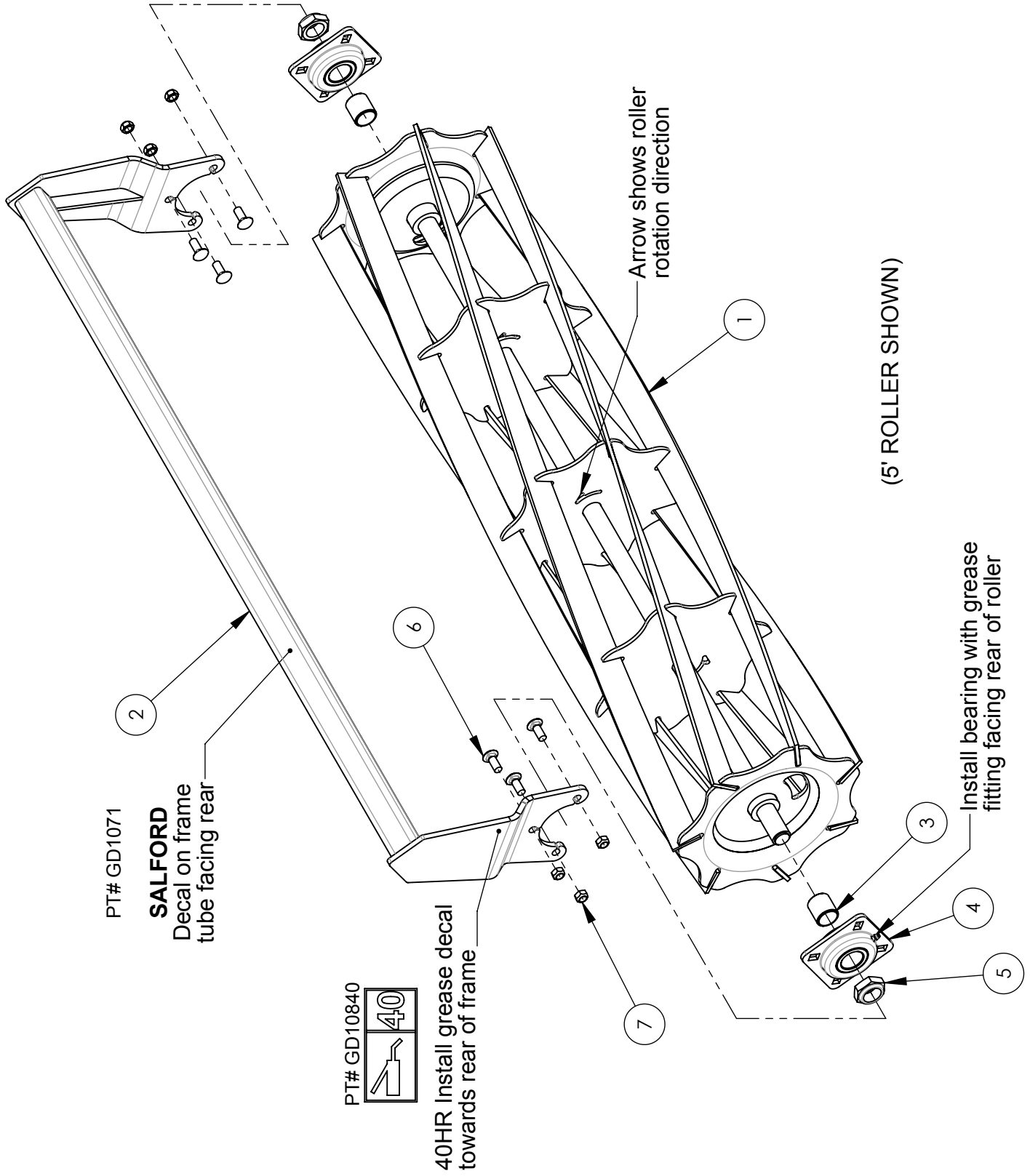
1/2" - 6 TINE HARROW ASSEMBLY PART NO. R636

ITEM NO.	PART NO.	DESCRIPTION
1	U252503112	TUBE 2 1/2 x 2 1/2 x 3/16"W x 112" LG.
2	R6066	TINE PIPE FOR 1/2" (6-TINE)

COMMON PARTS

ITEM NO.	PART NO.	DESCRIPTION
3	R30002	1/2" TINE TUBE CONNECTOR
4	R30011	CLAMP BRACKET
5	B0812	1/2 X 1 1/4" BOLT
6	BN08L	1/2" NYLOCK NUT NC
7	BU1025	U-BOLT 5/8" x 2 1/2" x 4"
8	BN10L	5/8" NYLOCK NUT NC
9	R60000	1/2" WIRE - 20" DBL LEG SPRING TINE
10	R30007	ADJUSTING BRACKET WELDMENT
11	R30005	1/2" TINE 3 BAR ADJUST CONNECTOR
12	R30010	ADJUSTING BAR HD 3 BAR TINE
13	R30008	ADJUSTING BRACKET HANDLE WELDMENT
14	R9063	.75 OD x .438 ID X 3/4 LONG SPACER
15	B0640	3/8"NC x 4" LG. HEX BOLT
16	BN06S	3/8"-16NC STOVER LOCK NUT
17	B0635	3/8"NC x 3 1/2" LG. HEX BOLT
18	R30015	LIGHT SAVER BRACKET
19	B0630	3/8"NC x 3" HEX BOLT
20	B0815	1/2" x 1 1/2" HEX BOLT
21	GHP11	#11 HAIR PIN

14" Roller Assembly



14" Roller Assembly

14" ROLLER HARROW ASSEMBLY - 3' 0" (91.4) LONG

COMPLETE ASSEMBLY PART NO. MR80143(L/R)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	R80147R	3' ROLLER ONLY RIGHT HAND SPIRAL, 14" DIA.
2	1	R80137-3	3' ROLLER FRAME FOR 14" ROLLER
3	2	A60099	1 1/4" x 1 1/2" x 1 19/32"LG BUSHING
4	2	GB491-B	1 1/2" BEARING COMPLETE
5	2	BN20JL	1 1/4"NC JAM LOCK NUT
6	6	BC0812H	CARRIAGE BOLT 1/2"NC x 1 1/4" LG. GR. 5
7	6	BN08S	1/2"-13NC STOVER LOCK NUT

14" ROLLER HARROW ASSEMBLY - 4' 0" (121.9) LONG

COMPLETE ASSEMBLY PART NO. MR80144(L/R)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	R80148R	4' ROLLER ONLY RIGHT HAND SPIRAL, 14" DIA.
2	1	R80137-4	4' ROLLER FRAME FOR 14" ROLLER
3	2	A60099	1 1/4" x 1 1/2" x 1 19/32"LG BUSHING
4	2	GB491-B	1 1/2" BEARING COMPLETE
5	2	BN20JL	1 1/4"NC JAM LOCK NUT
6	6	BC0812H	CARRIAGE BOLT 1/2"NC x 1 1/4" LG. GR. 5
7	6	BN08S	1/2"-13NC STOVER LOCK NUT

14" ROLLER HARROW ASSEMBLY - 5' 0" (152.4) LONG

COMPLETE ASSEMBLY PART NO. MR80145(L/R)

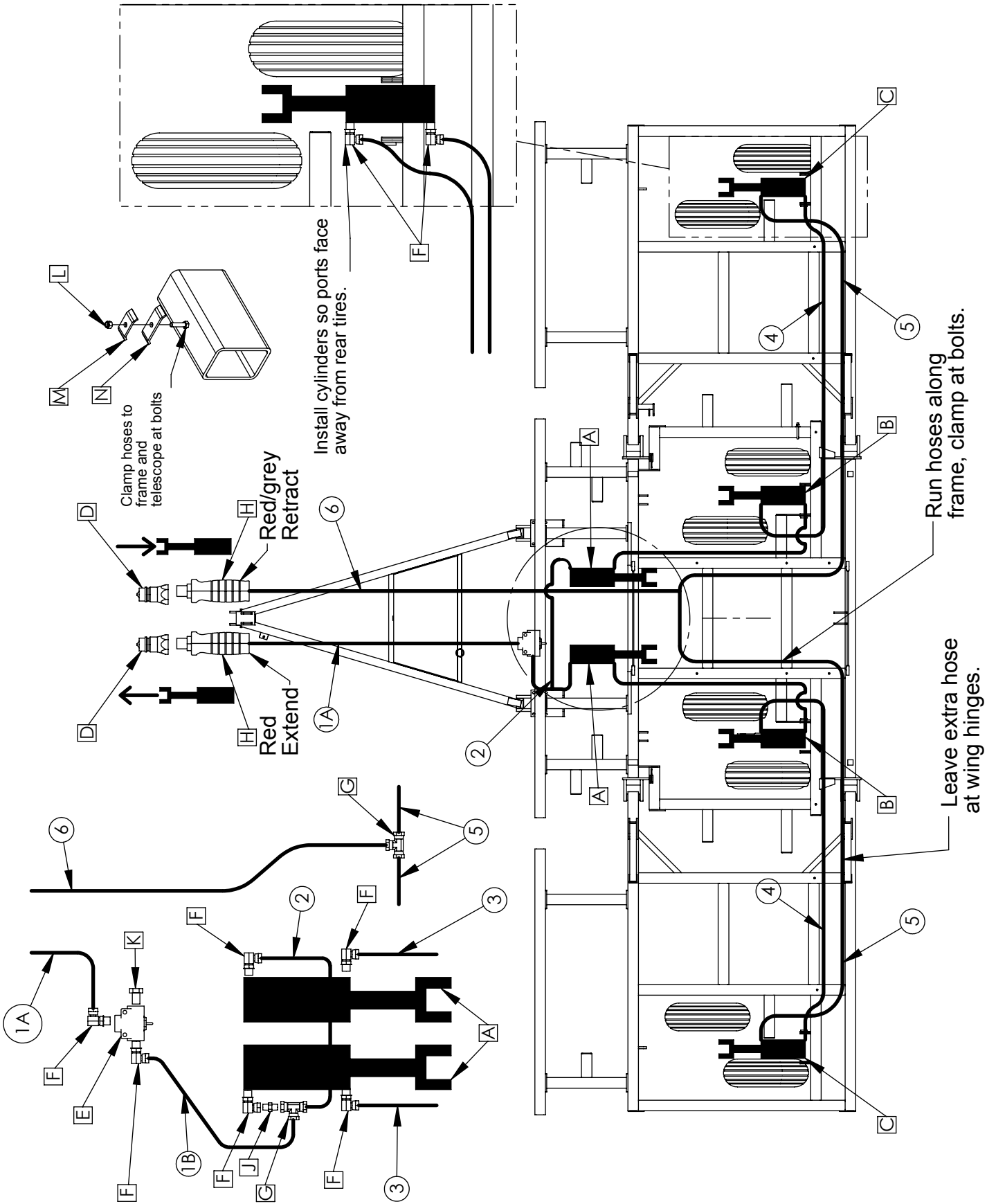
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	R80149R	5' ROLLER ONLY RIGHT HAND SPIRAL, 14" DIA.
2	1	R80137-5	5' ROLLER FRAME FOR 14" ROLLER
3	2	A60099	1 1/4" x 1 1/2" x 1 19/32"LG BUSHING
4	2	GB491-B	1 1/2" BEARING COMPLETE
5	2	BN20JL	1 1/4"NC JAM LOCK NUT
6	6	BC0812H	CARRIAGE BOLT 1/2"NC x 1 1/4" LG. GR. 5
7	6	BN08S	1/2"-13NC STOVER LOCK NUT

14" ROLLER HARROW ASSEMBLY - 6' 2" (187.9) LONG

COMPLETE ASSEMBLY PART NO. MR80146(L/R)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	R80150R	6'2" ROLLER ONLY RIGHT HAND SPIRAL, 14" DIA.
2	1	R80137-6	6'2" ROLLER FRAME FOR 14" ROLLER
3	2	A60099	1 1/4" x 1 1/2" x 1 19/32"LG BUSHING
4	2	GB491-B	1 1/2" BEARING COMPLETE
5	2	BN20JL	1 1/4"NC JAM LOCK NUT
6	6	BC0812H	CARRIAGE BOLT 1/2"NC x 1 1/4" LG. GR. 5
7	6	BN08S	1/2"-13NC STOVER LOCK NUT

Axle Lift Hydraulics



Axle Lift Hydraulics

	ITEM	QTY	PART NO.	DESCRIPTION
CYL.	A	2	HSR40095	4" x 9 1/2" REPHASING HYD. CYL.
	B	2	HSR4008	4" x 8" REPHASING HYD. CYL.
	C	2	HSR3708	3 3/4" x 8" REPHASING HYD. CYL.
FITTINGS	D	2	H80104P	1/2"M NPT PIONEER TIP
	E	1	HPMSC10	STROKE CONTROL VALVE
	F	15	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW
	G	1	H956666	-06 NPT ALL SWIVEL TEE
	H	1	HG-PT22E22R21R	RED & RED/GREY HOSE GRIPS (WITH 1/2" NPT MAIL-FEMALE)
	J	1	H910066	-06 TO -06 NPT MALE UNION
	K	1	H89008	-08 ORB PLUG
	L	12	BN06L	3/8" NC NYLOCK NUT
	M	7	P0160A	HOSE CLAMP 3"
	N	5	P0160B	HOSE CLAMP 4"

	LABEL	QTY	ENDS (ALL NPT)	HOSE SIZE	HOSE LENGTH	FROM	TO
HOSES	1A	1	1/2" - 3/8"	1/2"	17'	TRACTOR	S.C. VALVE
	1B	1	3/8" - 3/8"	1/2"	4'	S.C. VALVE	RIGHT CYL 'A'
	2	1	3/8" - 3/8"	3/8"	1' 6"	RIGHT CYL 'A'	LEFT CYL 'A'
	3	2	3/8" - 3/8"	3/8"	12' 3"	CYL. "A" ROD	CYL. "B" BARREL
	4	2	3/8" - 3/8"	3/8"	16' 6"	CYL. "B" ROD	CYL. "C" BARREL
	5	1	3/8" - 3/8"	3/8"	27' 9"	CYL. "C" ROD	RETURN TEE
6	1	1/2" - 3/8"	1/2"	18' 6"	RETURN TEE	TRACTOR	

CHARGING THE CIRCUIT

On a concrete pad or hard ground, do not retract cylinders all the way while tongue is hitched to tractor, this could result in bending the tractor drawbar upwards.

****Connect only the pins on the barrel ends of the cylinders until the circuit has been charged.****

- Prop cylinders with blocks of wood, be sure that all cylinders can extend completely without striking anything.
- Connect hoses to tractor.
- 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.)
- The circuit is now free from air. Install Rod end Pins. Connect tongue telescope.
 - Whenever air could have entered the cylinders, repeat above steps to purge circuit.
 - Test wing fold and adjust hose droop at wings if necessary.

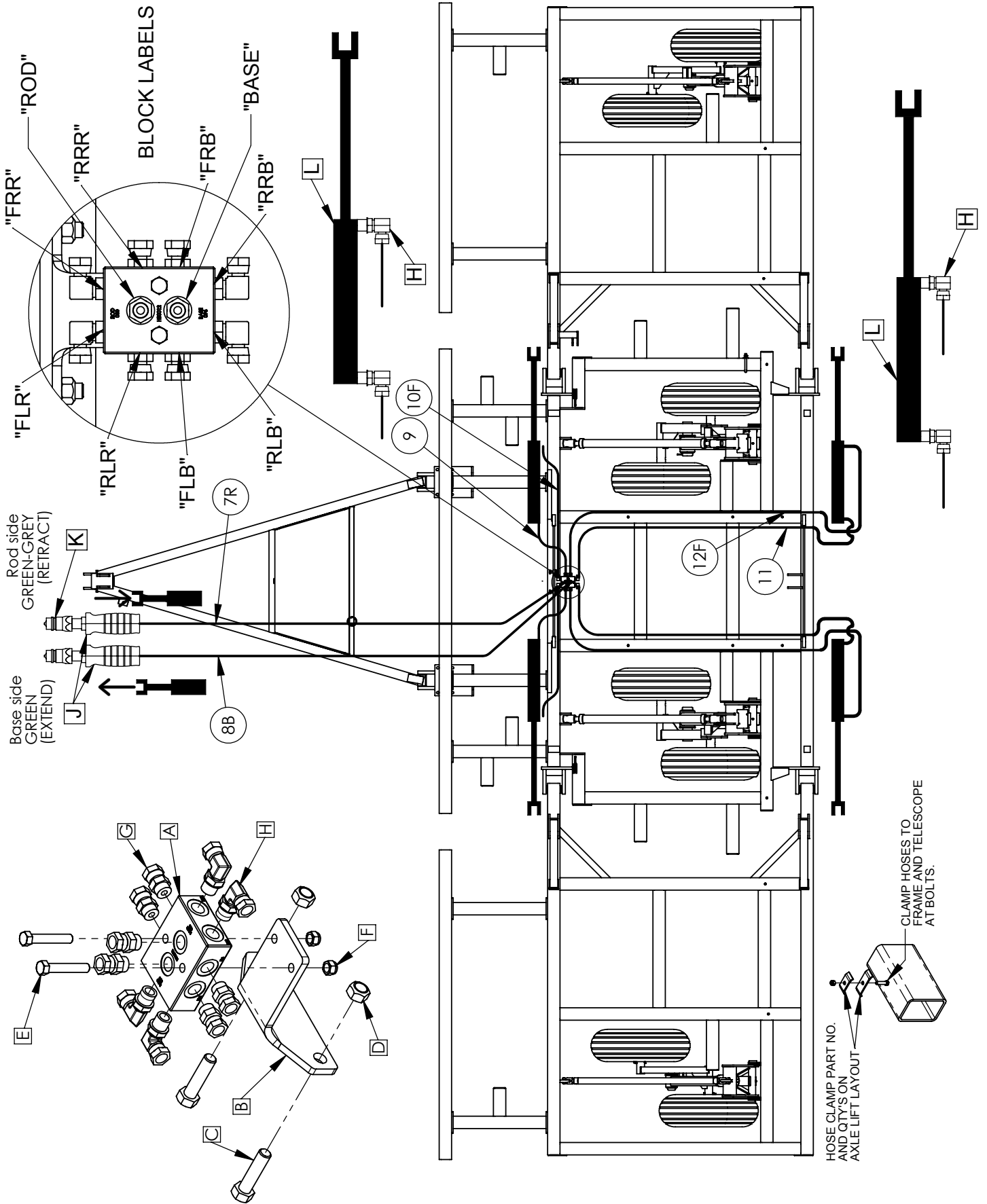


Route hoses behind tower



Leave a droop in hose at wing hinge.

Wing Lift Hydraulics



Wing Lift Hydraulics

FITTINGS LIST			
ITEM.	QTY	PART NO.	DESCRIPTION
A	1	H00012	3 SECTION WING FOLDING MANIFOLD
B	1	A60079F	HYDRAULIC MANIFOLD BRACKET
C	2	B1025	5/8"-11NC x 2 1/2" HEX BOLT
D	2	BN10S	5/8" STOVER LOCK NUT NC
E	2	B0725	7/16" X 2 1/2" LG. GRADE 5 HEX BOLT
F	2	BN07L	7/16" NYLOCK NUT NC
G	8	H930586	-08M ORB TO -06F NPT SWIVEL
H	12	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW
J	1	HG-PT24E24R21R	GREEN EXTEND/GREEN-GREY RETRACT HOSE GRIPS
K	2	H80104P	COUPLER 1/2" NPT MALE PIONEER
L	4	HS3536	3 1/2" BORE X 36" STROKE HYD. CYLINDER

HOSE LIST						
LABEL	QTY	ENDS (ALL NPT)	HOSE SIZE	HOSE LENGTH	FROM	TO
7R (Green-Grey)	1	1/2" - 3/8"	1/2"	18' 6"	Tractor	Manifold "ROD"
8B (Green-Green)	1	1/2" - 3/8"	1/2"	18' 6"	Tractor	Manifold "BASE"
9	2	3/8" - 3/8"	3/8"	3'	Manifold 'FLB' & 'FRB'	Front Barrel
10F	2	3/8" - 3/8"	3/8"	9' 11"	Manifold 'FLR' & 'FRR'	Front Rod
11	2	3/8" - 3/8"	3/8"	6' 2"	Manifold 'RLB' & 'RRB'	Rear Barrel
12F	2	3/8" - 3/8"	3/8"	13'	Manifold 'RLR' & 'RRR'	Rear Rod

CHARGING FOLD CYLINDERS

Do not connect the cylinder rod until system has been charged with oil.

1. Prop up the cylinder with a block of wood (Fig 1). Check to see that the rod will extend completely without striking anything.
2. Connect tractor (note: check to see that all cylinders extend and retract in sync. If one goes backwards, check the plumbing.)
3. Extend cylinders completely, hold lever for 30 sec. as air exits cylinder.
4. Retract cylinder completely, hold lever for 30 sec. as air exits.
5. Repeat steps 3&4 three times.
6. Install cylinder pins. Be sure washers are installed correctly (see fold cylinder parts page).

Air in the wing cylinder will cause wings to fall to the ground!!!

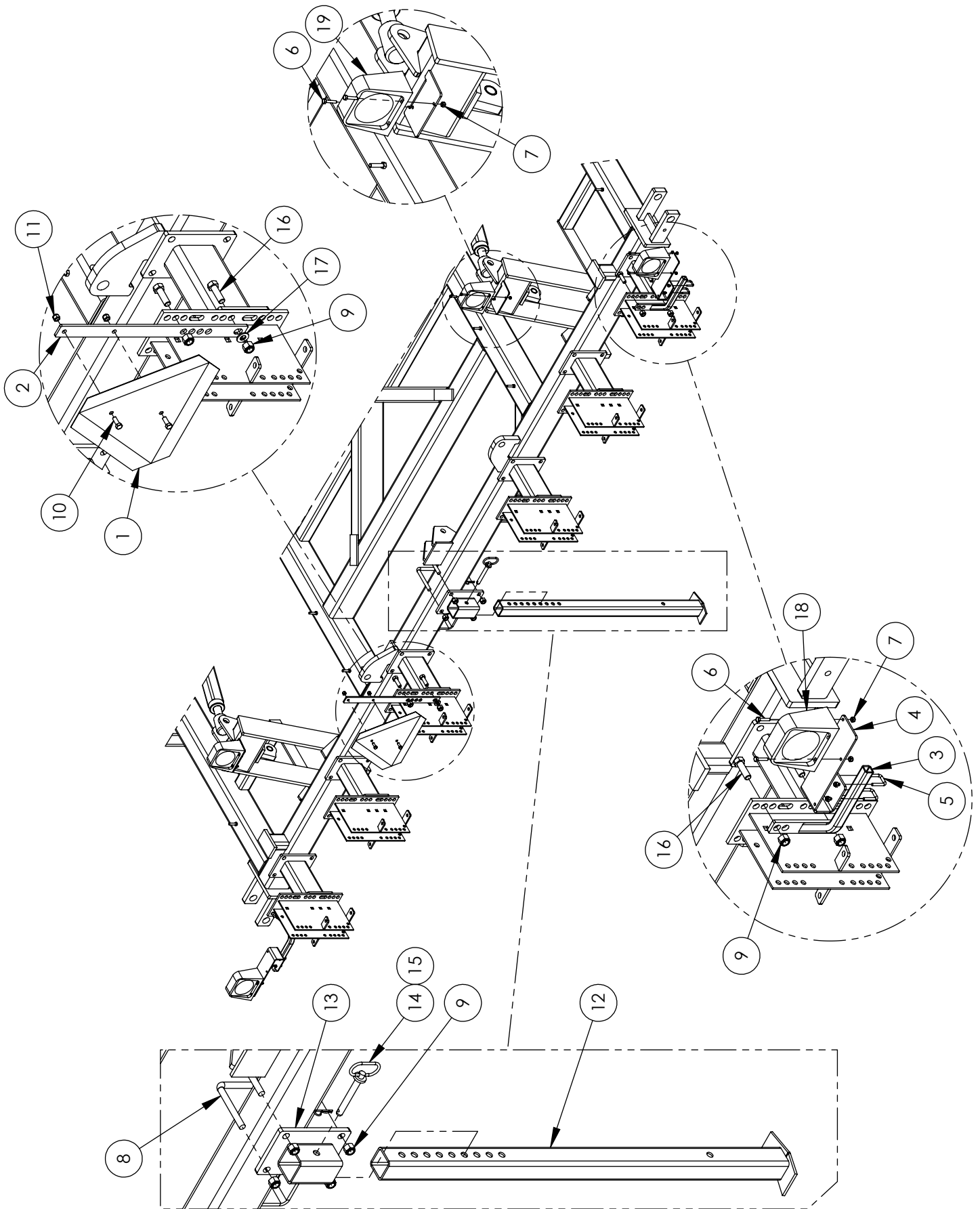
Whenever air could have entered the cylinders, repeat the process above to purge circuit.

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



Fig 1. When charging the circuit, prop up cylinder with block of wood. Be sure the rod can extend freely without striking anything.

Lights & SMV Installation

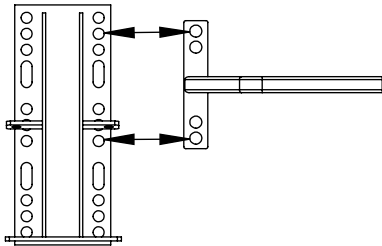


Lights & SMV Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	GAP103NS	SMV SIGN
2	1	C1011	SMV MOUNTING BRACKET
3	2	A60055	LIGHT BRACKET (SHORT)
4	2	L00425	OUTSIDE LIGHT MOUNTING PLATE
5	4	BU0410	1/4 x 1" x 1 1/2" U-BOLT
6	8	B0412	1/4" NC x 1 1/2" HEX BOLT
7	16	BN04L	1/4" LOCK NUT
8	2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
9	10	BN10L	5/8" NYLOCK NUT NC
10	2	B0610	3/8" X 1" LG. GRADE 5
11	2	BN06L	3/8"-16NC LOCK NUT
12	1	C5508	550 PARKING STAND
13	1	C5507	REAR PARKING STAND MOUNT FOR 6" BEAM
14	1	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
15	1	GHP11	#11 HAIR PIN
16	6	B1020	5/8 X 2" BOLT GR. 5 PLATED
17	1	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
+ 18	2	GL767762-AA	ORANGE LIGHT
+ 19	2	GL767762-R	RED LIGHT
20	1	GL767762	SALFORD WESBAR LIGHT KIT

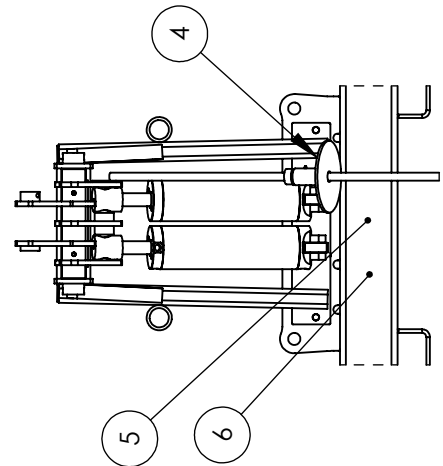
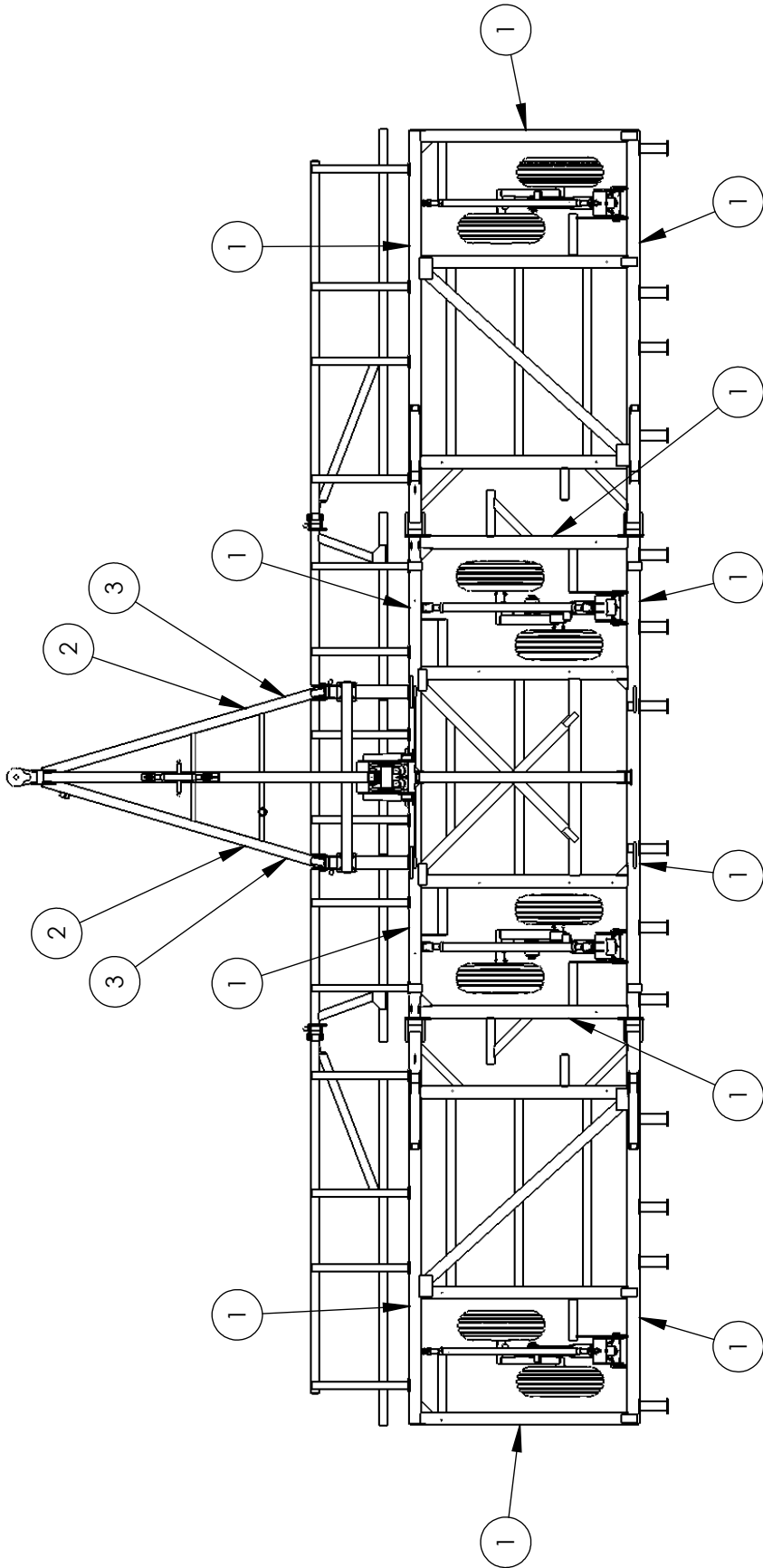
+ INCLUDED IN GL767762 (LIGHTS AND WIRES)

LIGHT BRACKET HOLE USE



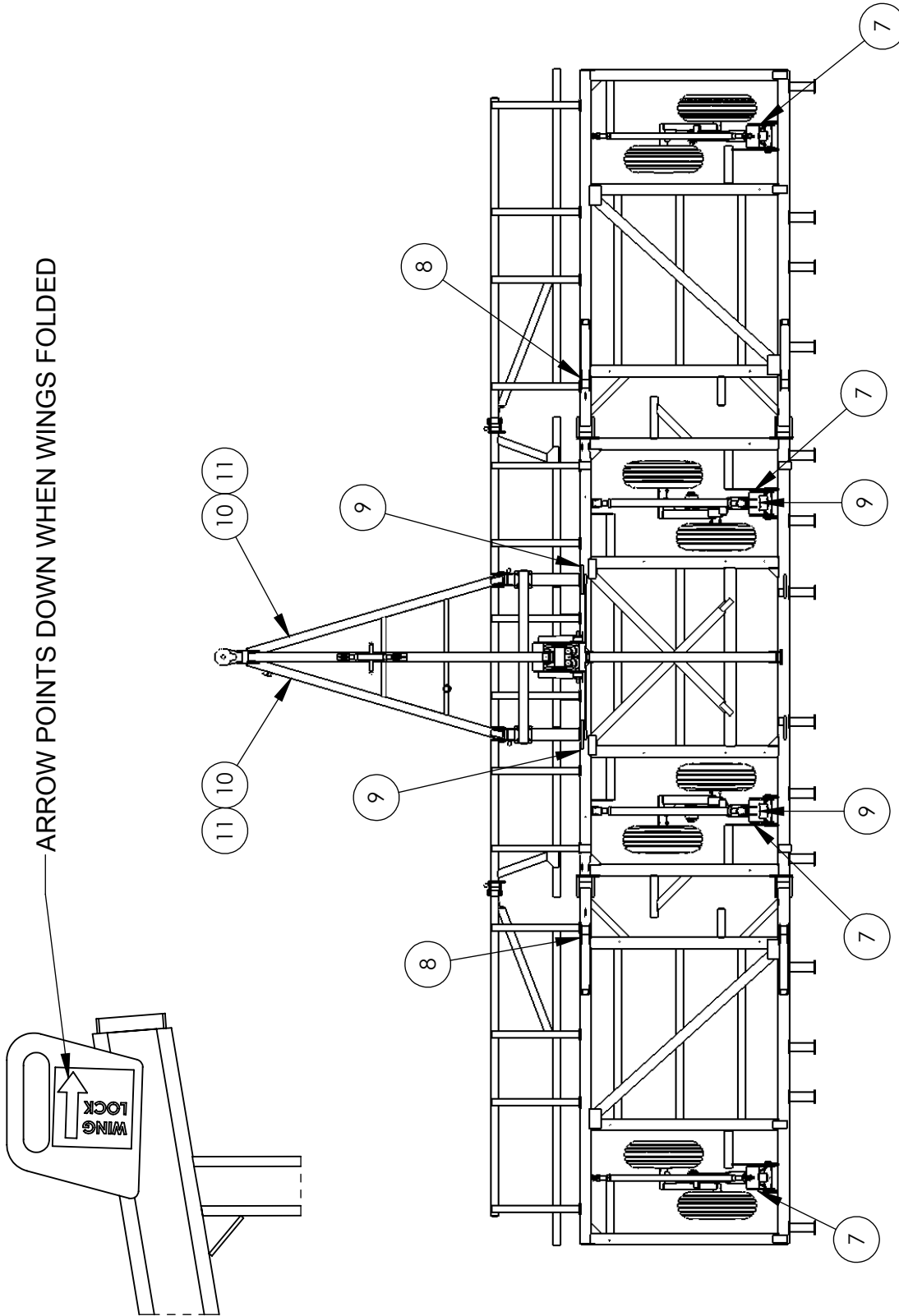
IMPORTANT:
HAVE SOMEONE WATCH FOR COLLISIONS
WHEN FOLDING FOR THE FIRST TIME

Decal Layout



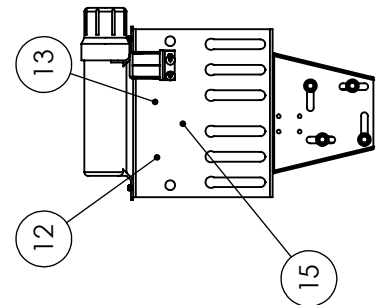
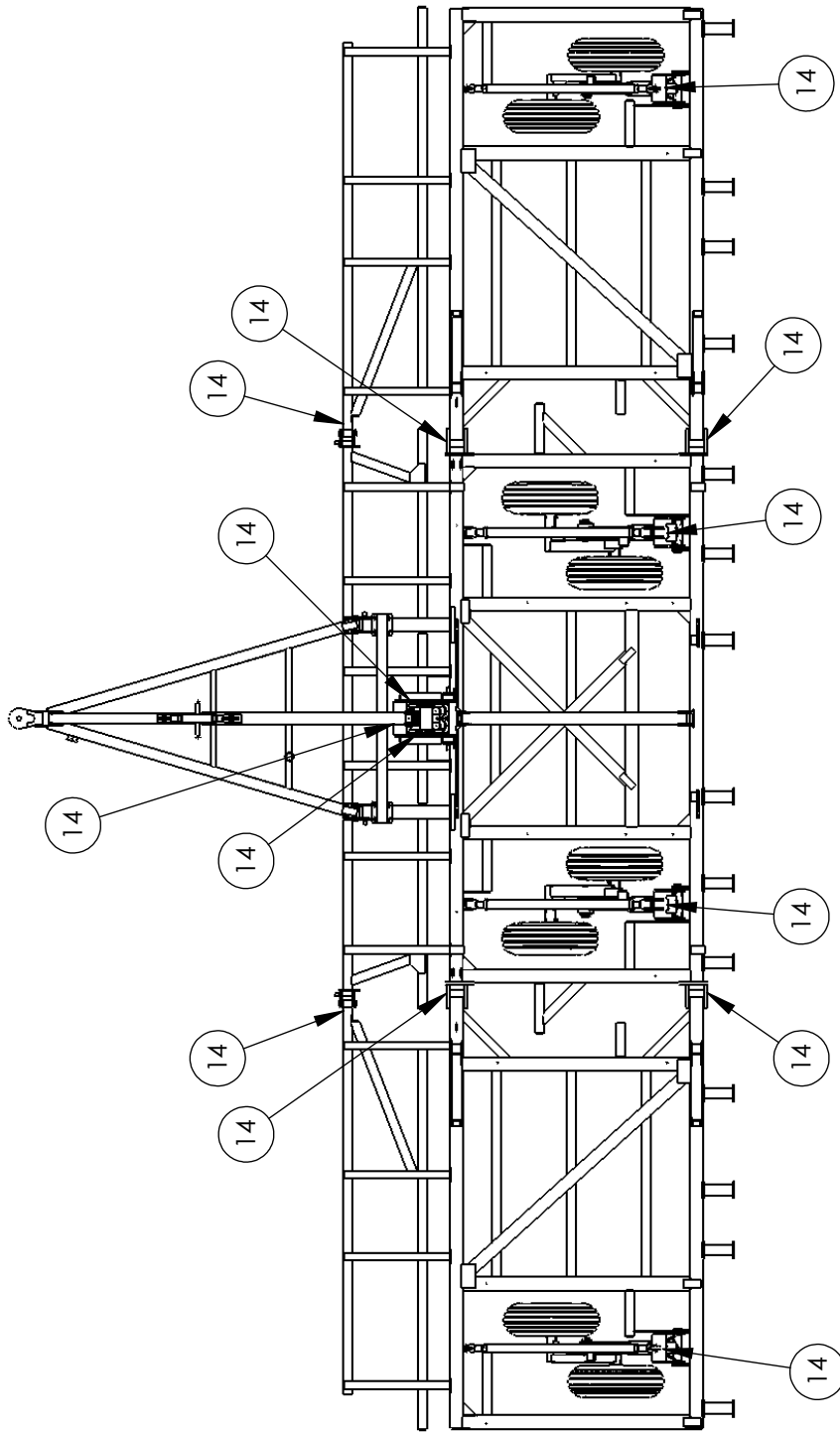
ITEM	QTY	PART NO.	DESCRIPTION
1	12	GD100	SALFORD DECAL LARGE w/BLACK BORDER (4" HIGH X 16" LONG)
2	2	GD102	WWW. SALFORD DECAL
3	2	GD700	MODEL 700 DECAL
4	1	GD109	DEPTH CONTROL DECAL
5	1	GD112	ATTENTION LUBRICATE DECAL
6	1	GD110	WARNING DON'T LIFT DECAL

Decal Layout



ITEM	QTY.	PART NO.	DESCRIPTION
7	4	GD193	CAUTION - 11L X 15 TIRE DECAL
8	2	GD144	WING LOCK DECAL - 570
9	4	GDSW200	WARNING STICKER, OVERHEAD CRUSHING HAZARD
10	2	GDSW2	USE PROPER TOOLS AND READ MANUAL DECAL
11	2	GDT3	DANGER STICKER FOR CRUSHING HAZARD

Decal Layout



ITEM	QTY.	PART NO.	DESCRIPTION
12	1	GDSW4	SAFE OPERATION LIST DECAL
13	1	GDSW700	WARNING STICKER, ALTERNATE HIGH PRESSURE FLUID HAZARD STICKER
14	13	GD10840	GREASE EVERY 40 HOURS DECAL
15	1	GD210	HOSE IDENTIFICATION DECAL

Decal Legend



GD100 (1)



GD102 (2)



GD700 (3)



GD109 (4)



GD112 (5)



GD193 (6)



GD144 (7)



GD110 (8)



GDSW200 (9)



GDSW2 (10)



GDT3 (11)



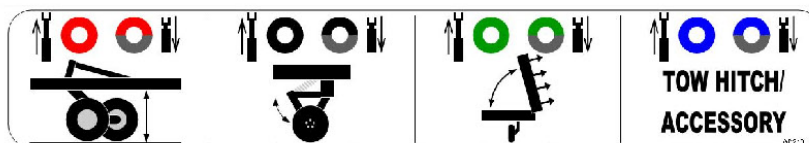
GDSW4 (12)



GDSW700 (13)



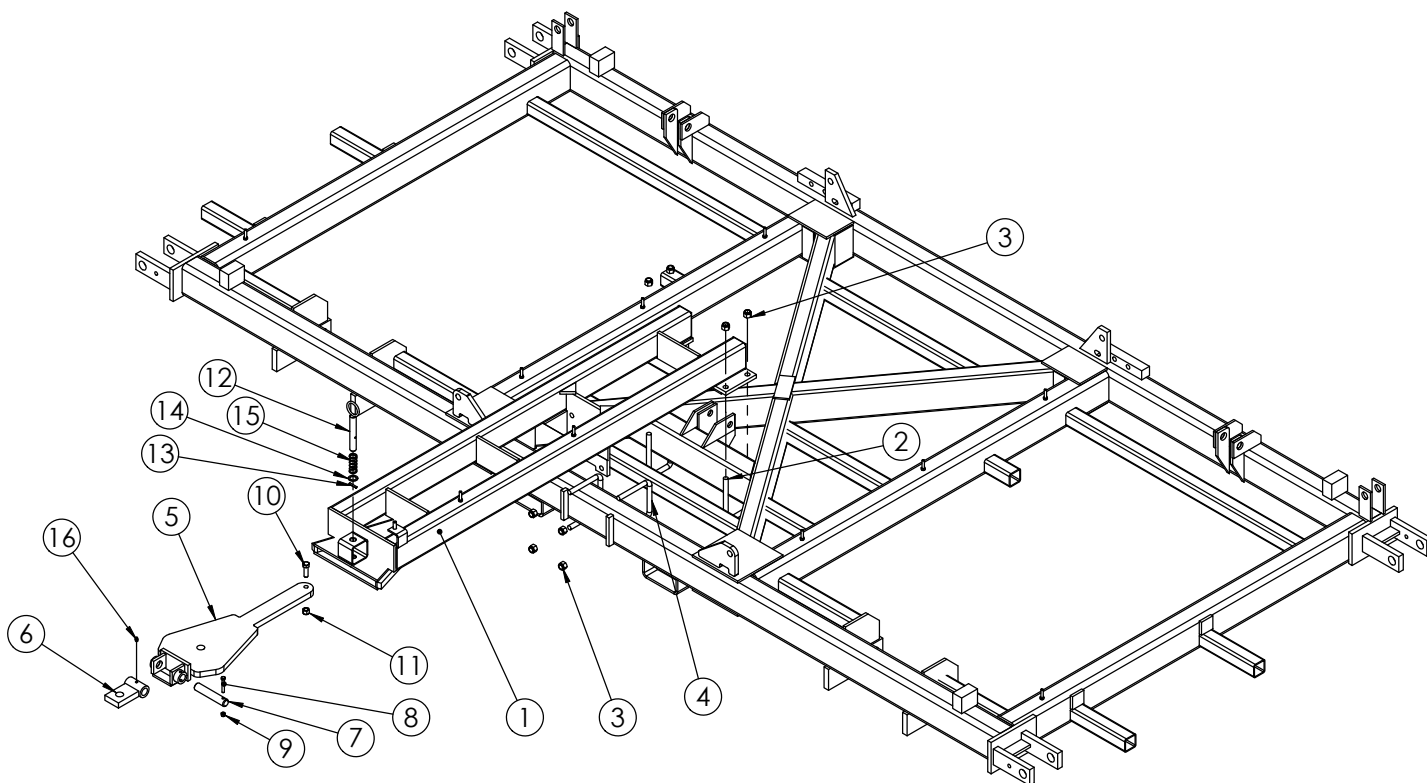
GD10840 (14)



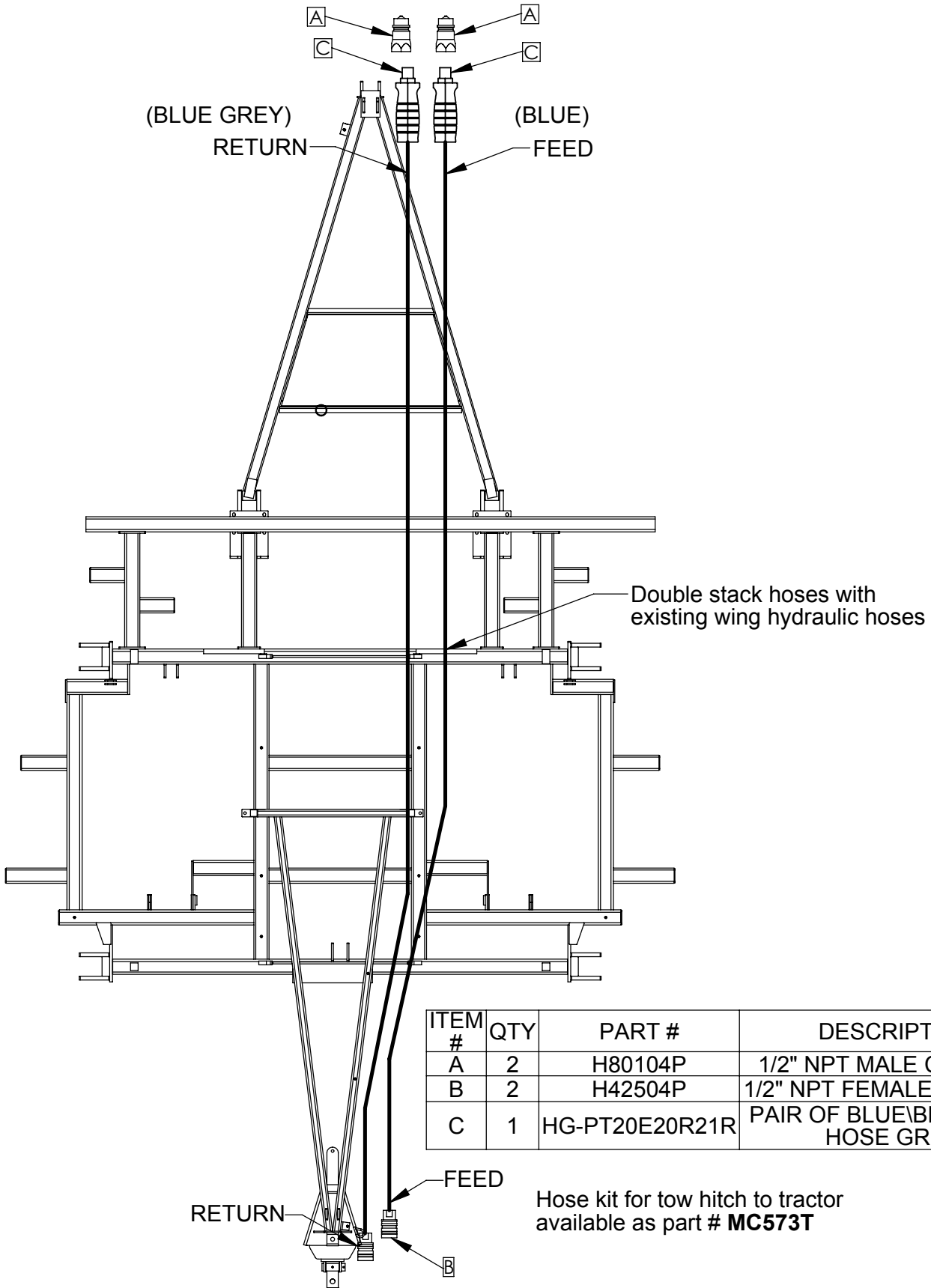
GD210 (15)

Tow Hitch Installation

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	C10900	TOW HITCH
2	2	BU1246	U-BOLT 3/4" x 4" x 8" LG.
3	8	BN12L	3/4" NC NYLOCK NUT
4	2	BU1260	3/4" x 6 x 6 1/2" U-BOLT
5	1	C10859	TOW HITCH INSERT
6	1	T00328	AIR SEEDER TOW HITCH CLEVIS
7	1	GP2000612B06	1 1/4" x 6 1/2" LG. PIN - 1 HOLE
8	1	B0625	3/8"NC x 2 1/2" LG. HEX BOLT
9	1	BN06L	3/8"-16NC LOCK NUT
10	1	B1020	5/8 X 2" BOLT GR. 5 PLATED
11	1	BN10L	5/8" NYLOCK NUT NC
12	1	GPSPEC16C1000	RING & WASHER TOW HITCH SPRING PIN
13	1	BSR0415	1/4 X 1 1/2" ROLL PIN
14	1	GM26	1" MACHINE BUSHING
15	1	C1072	TOW HITCH PIN SPRING
16	2	GF1610	1/8" NPT GREASE FITTING



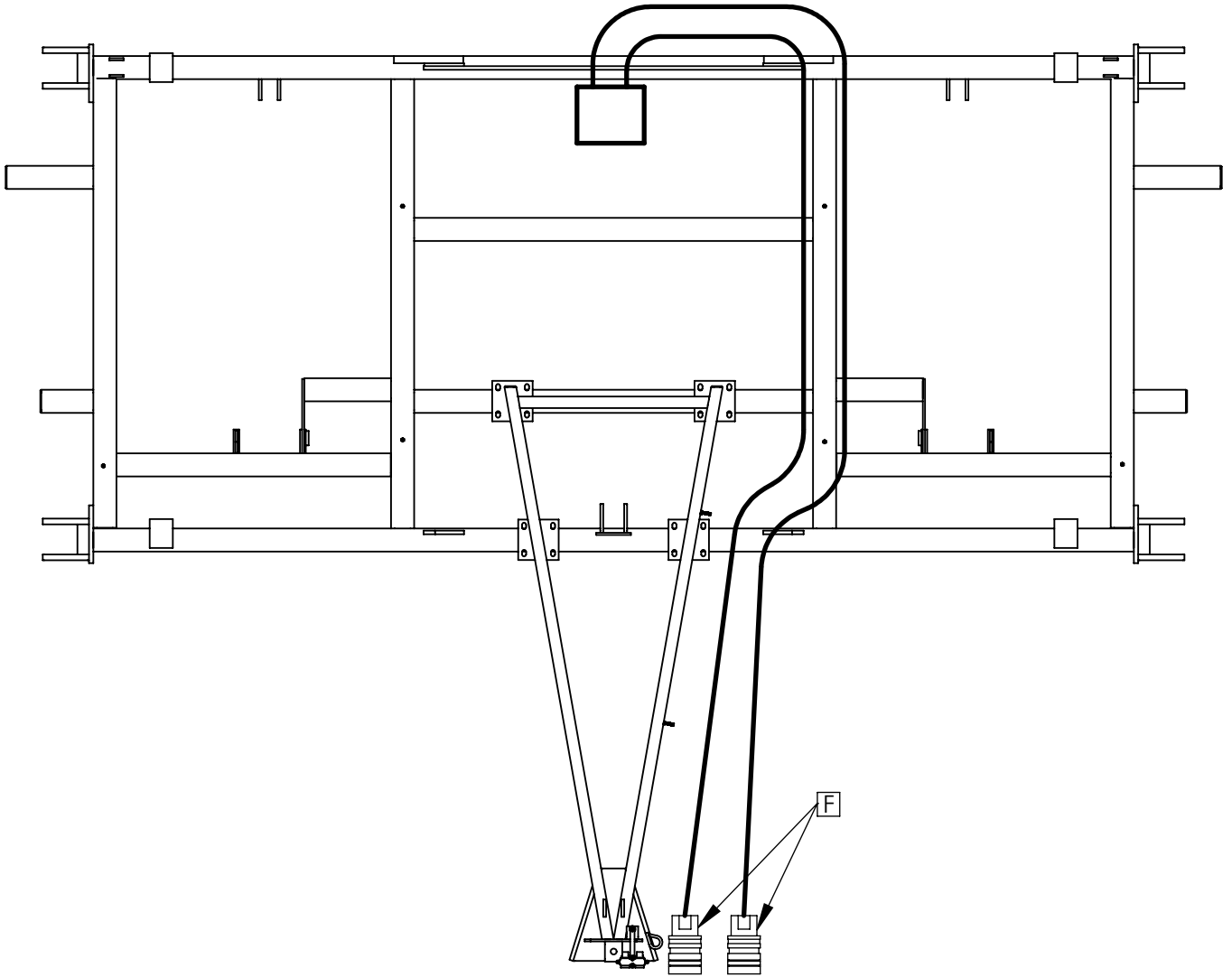
Independent Tow Hitch Hydraulics



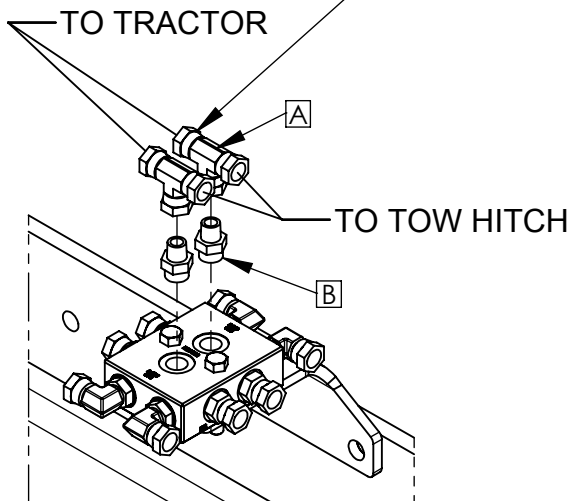
ITEM #	QTY	PART #	DESCRIPTION
A	2	H80104P	1/2" NPT MALE COUPLER
B	2	H42504P	1/2" NPT FEMALE COUPLER
C	1	HG-PT20E20R21R	PAIR OF BLUE\BLUE GREY HOSE GRIPS

Hose kit for tow hitch to tractor available as part # **MC573T**

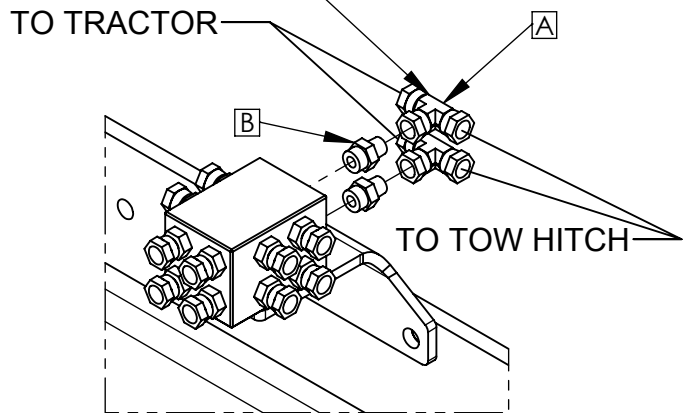
Shared Tow Hitch Hydraulics



Remove original fittings and replace with nipple [B] and tee [A].



3PCS Single-fold machines with manifold

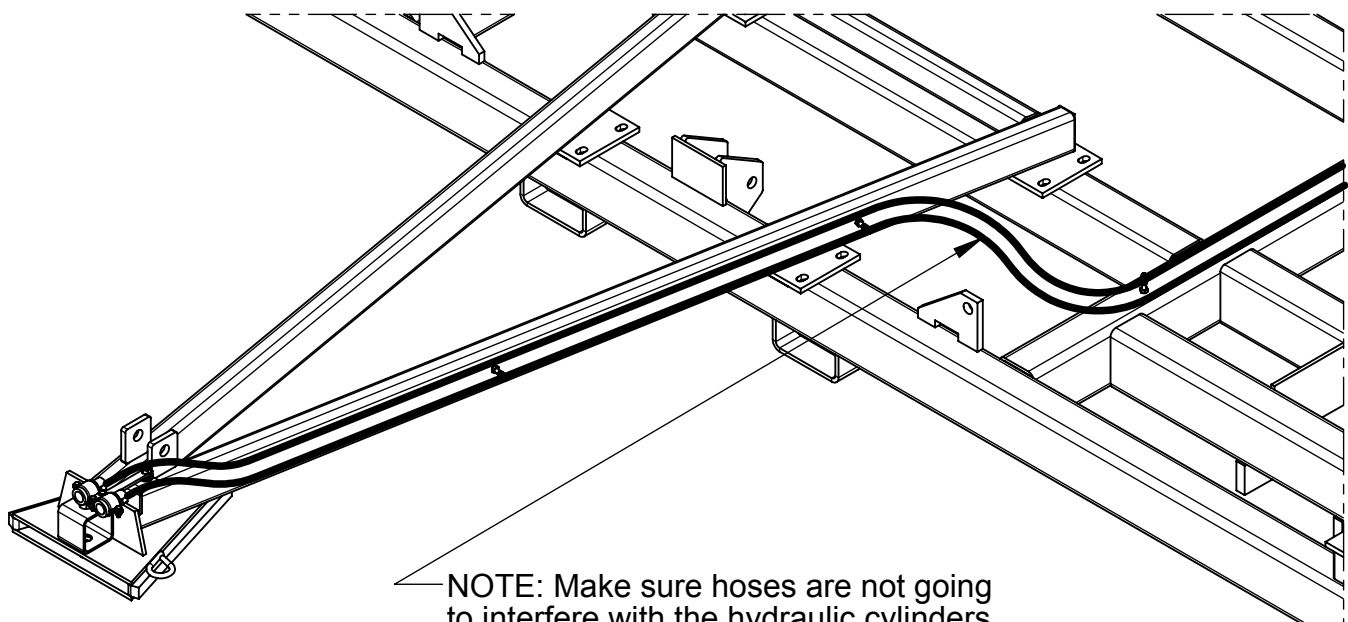
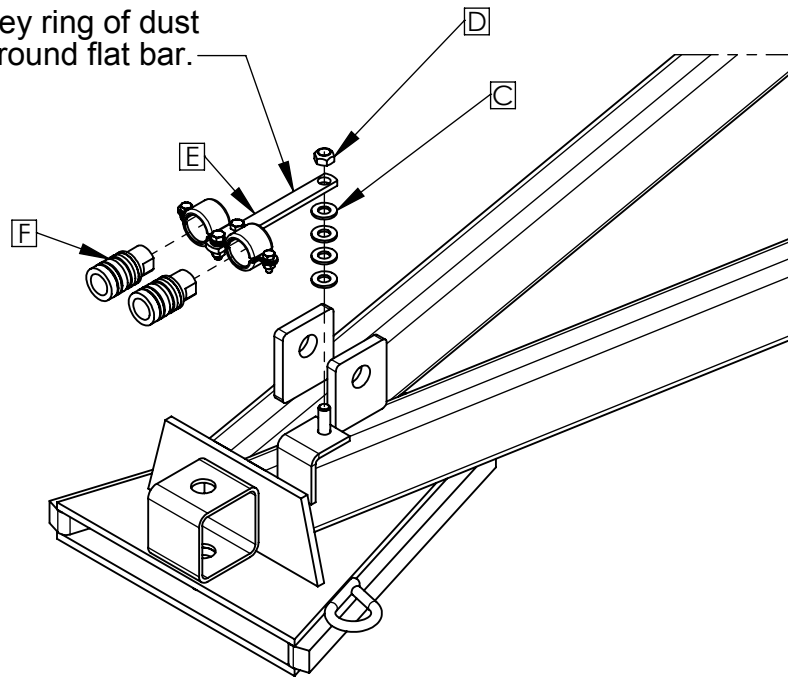


5PCS Bi-fold machines with manifold

Shared Tow Hitch Hydraulics

ITEM	QTY	PART NO.	DESCRIPTION
A	2	H956666	-06 NPT ALL FEMALE SWIVEL TEE
B	2	H915086	-06 ORB TO -06 NPT NIPPLE
C	4	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
D	1	BN08S	1/2"-13NC STOVER LOCK NUT
E	1	H50064	PIONEER HOSE HOLDER
F	2	H42504P	-08 NPT PIONEER FEMALE COUPLER
G	2	H52054	#5205-4C 1/2" PIONEER DUST PLUG

Place key ring of dust plugs around flat bar.



NOTE: Make sure hoses are not going to interfere with the hydraulic cylinders.



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