

SALFORD

**2011 - 9800 DRH - 600hp FRAME SERIES
ASSEMBLY AND PARTS MANUAL**

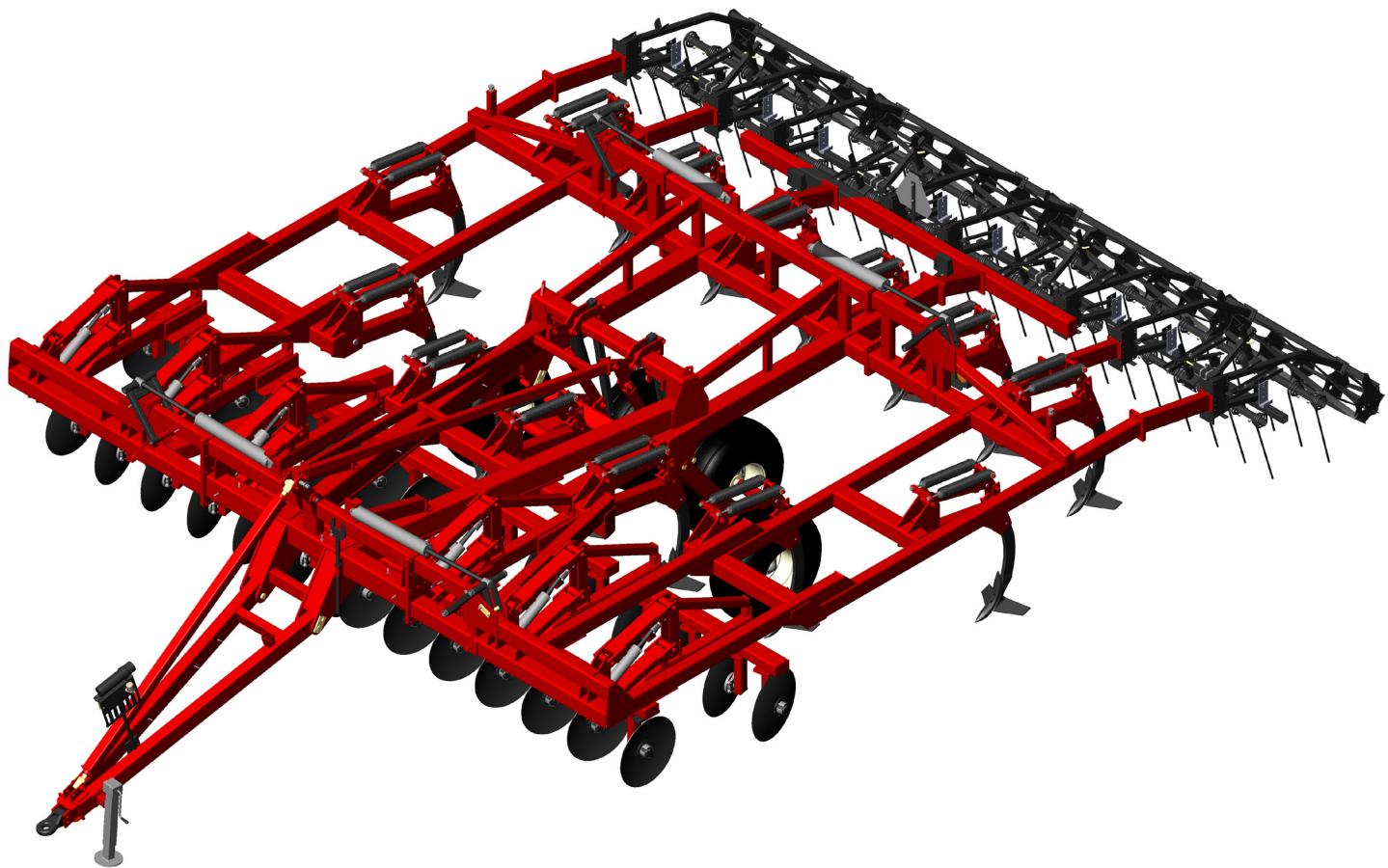


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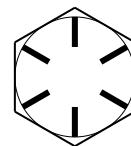
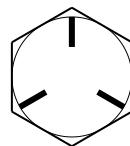
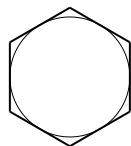
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General Information**Salford Recommended Torque Values**

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.

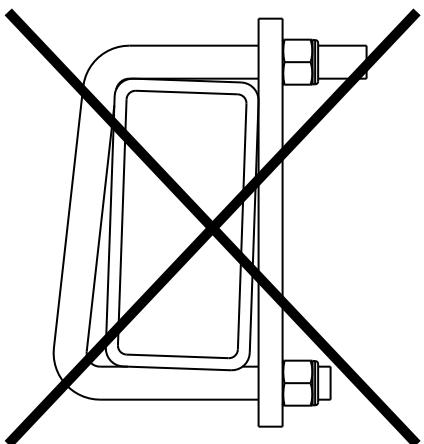
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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.

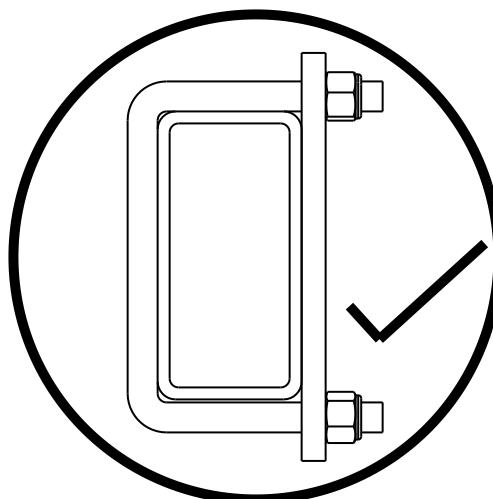
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

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.

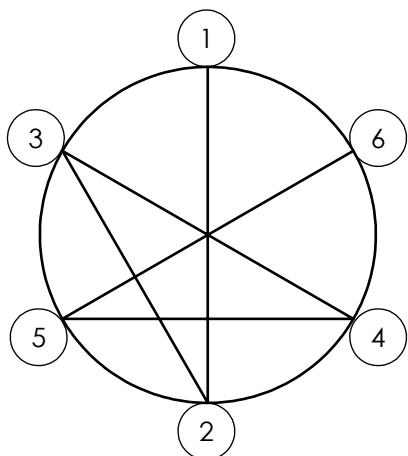
STEP 2) Torque to 55-60 ft•lbs following the appropriate pattern below.

STEP 3) Torque to final ft•lbs rating (see bolt size below) following the appropriate pattern below.

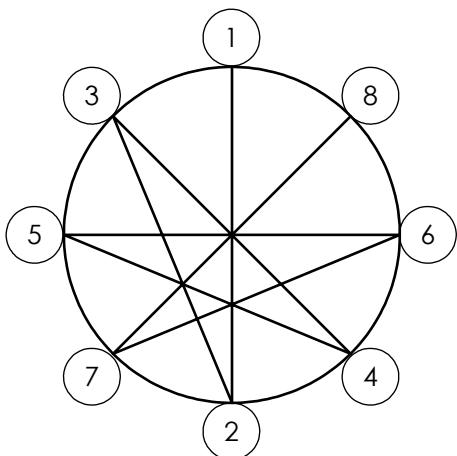
Bolt Size (Hub Size)	Final Torque
1/2" dia. bolt (up to 3000 lb hubs)	85 ft•lbs
9/16" dia. bolt (4000 - 5000 lb hubs)	120 ft•lbs
5/8" dia. bolt (5500 - 12000 lb hubs)	170 ft•lbs
3/4" dia. bolt (16000 - 20000 lb hubs)	300 ft•lbs
7/8" dia. bolt (25000 lb hubs)	450-500 ft•lbs

Lug Nut/Bolt Tightening Sequence

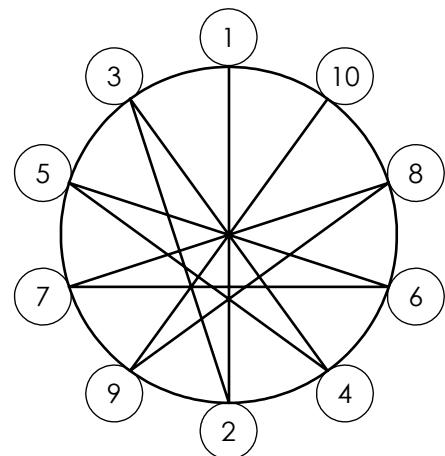
6 LUG BOLT PATTERN



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

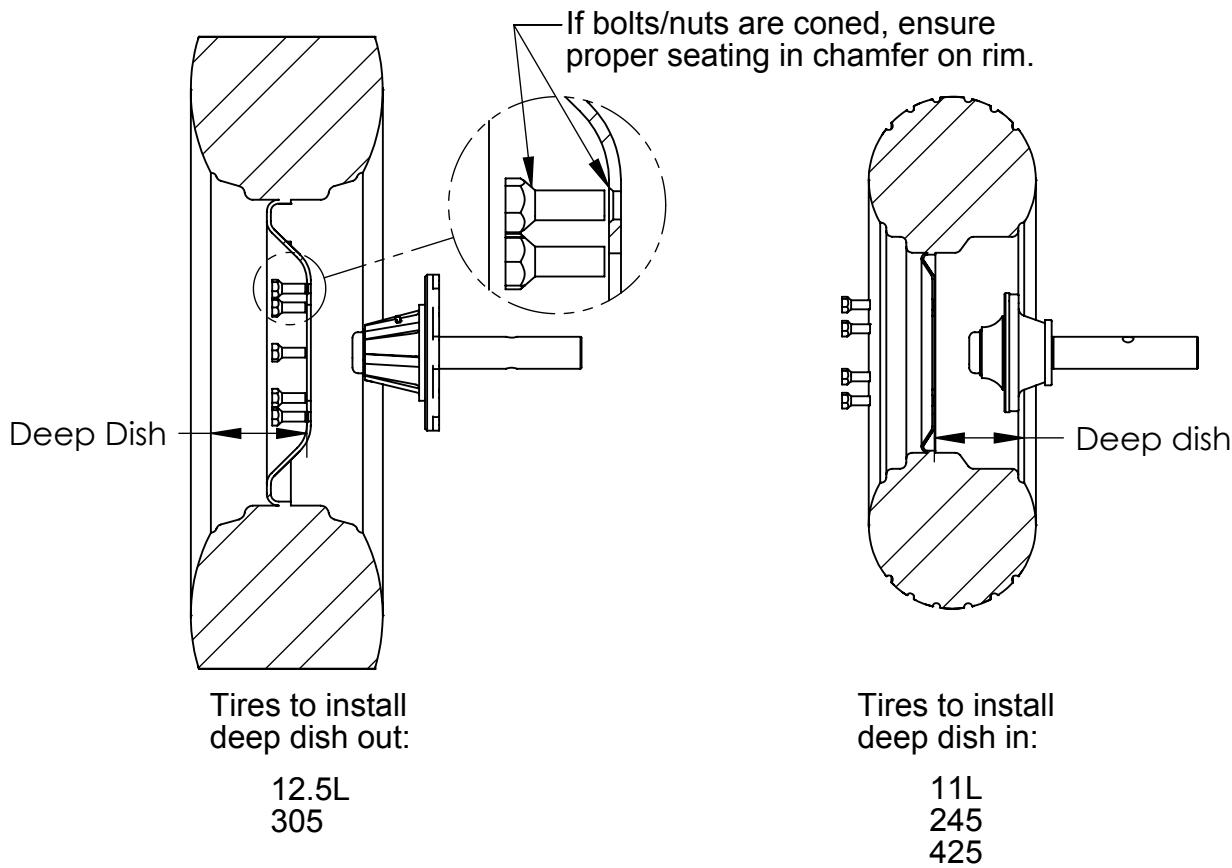
Ensure proper inflation of each tire for safe operation and extended tire life.

Pressure [psi]	Pressure [bar]	Tire Size
25 [psi]	1.72 [bar]	23.1 x 26 (16 ply)
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]		Load Range F - 11L15 - 12.5L15
90 [psi]		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.



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.

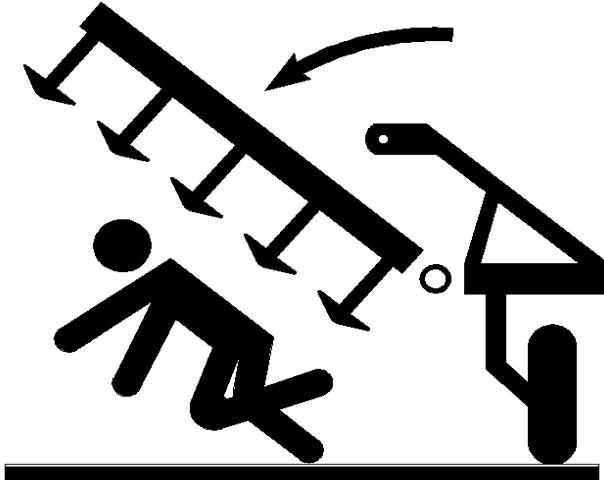
A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT !

General Safety Precautions



DANGER

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

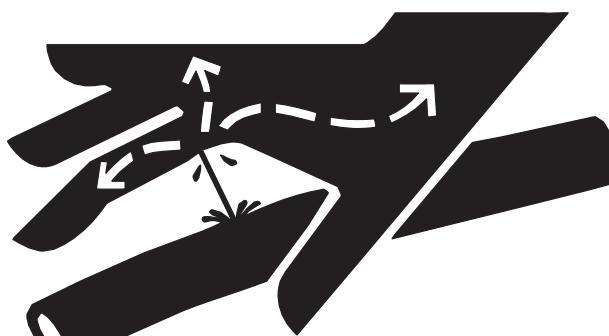


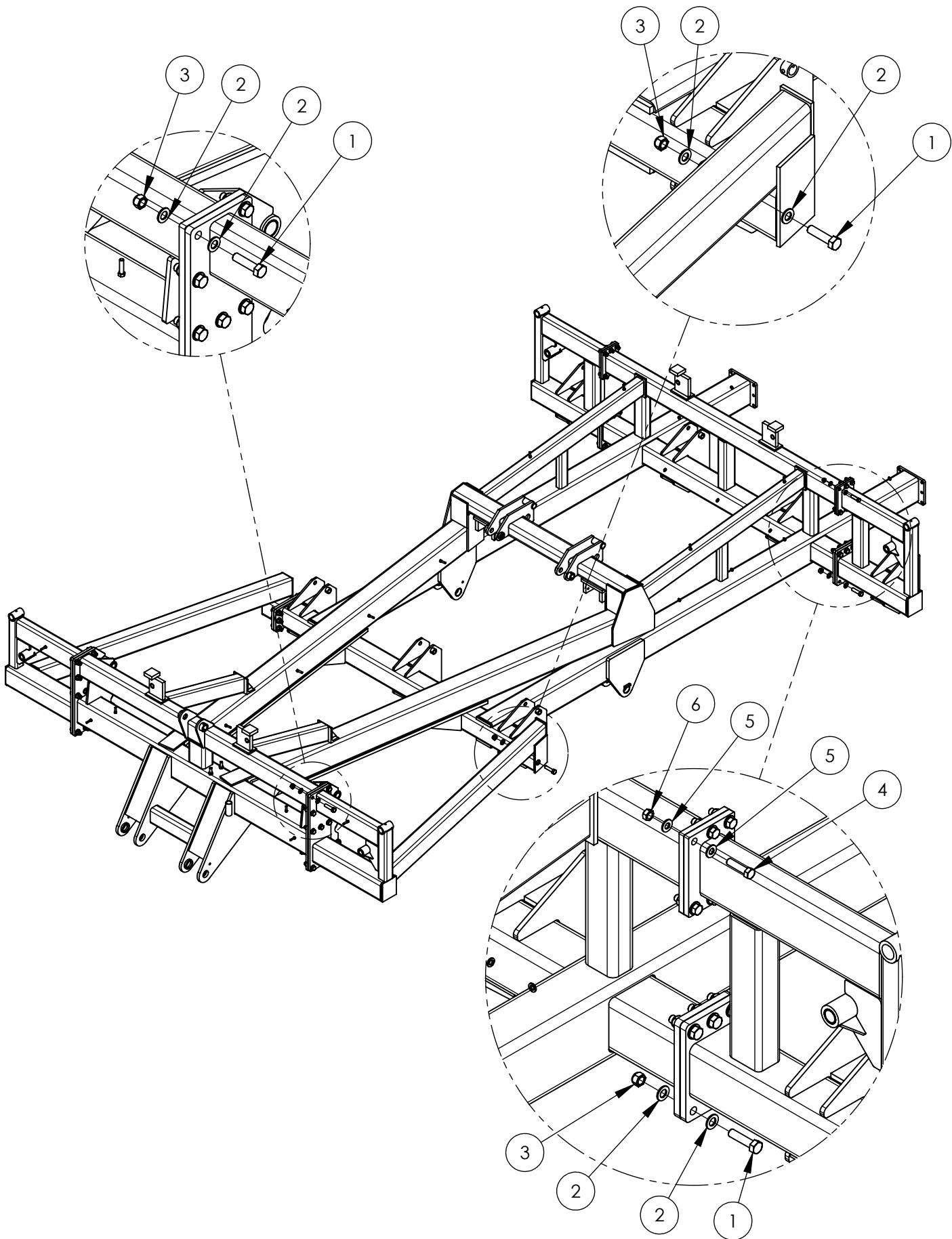
Hydraulics



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.

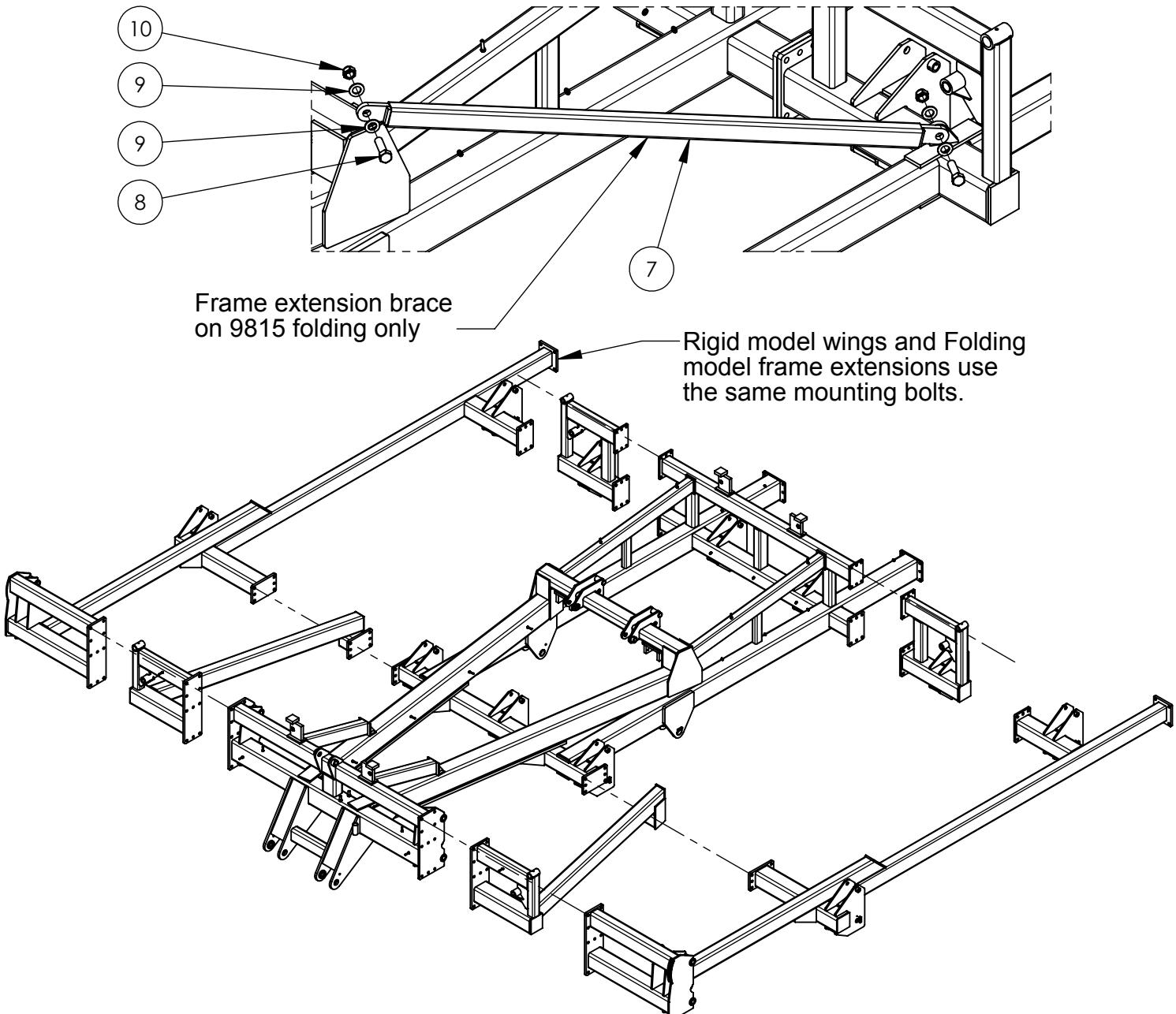


Frame and Wings**Frame Assembly**

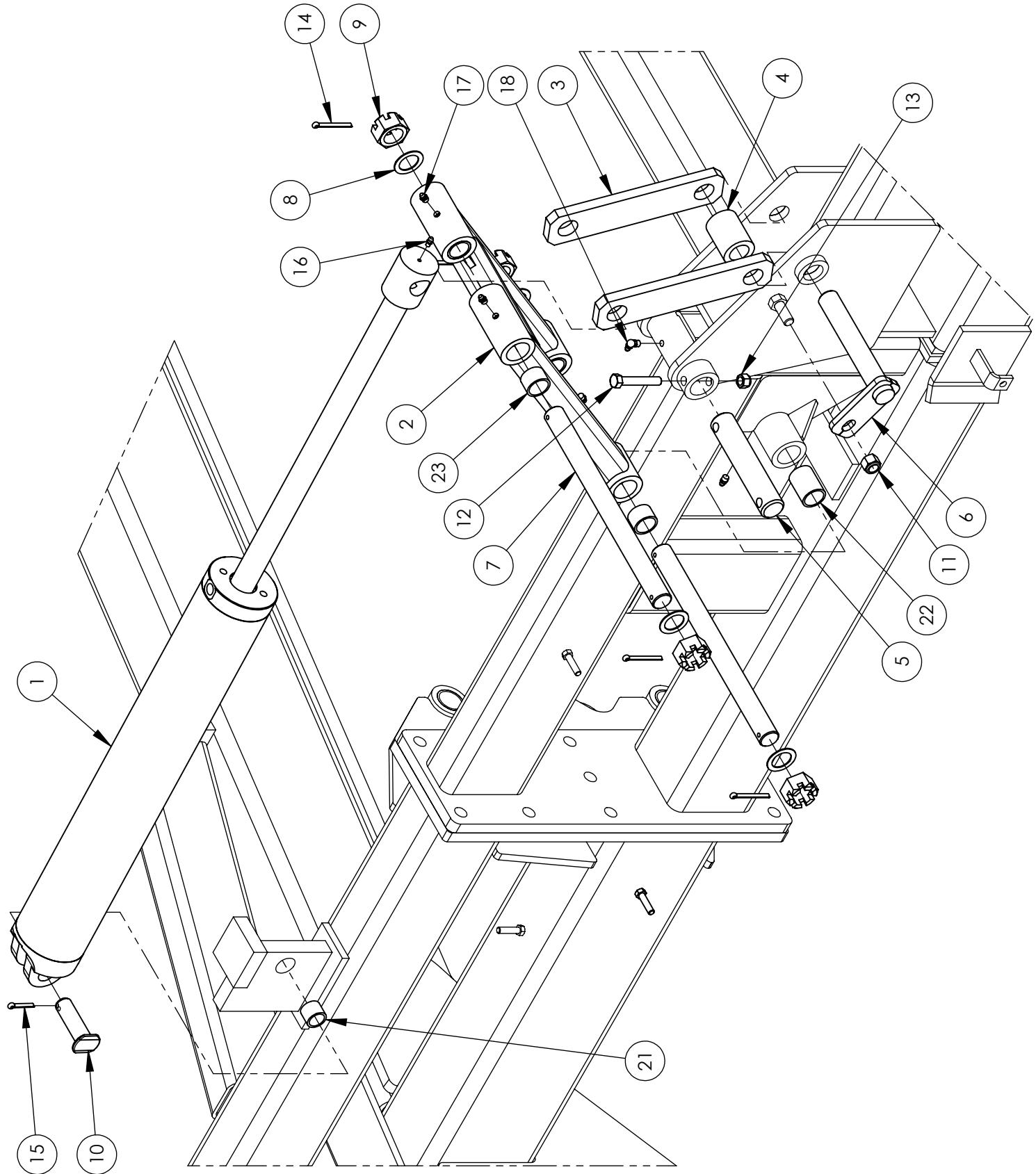
Frame Assembly

9815
folding
only

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	44	B1230	3/4"NC x 3" LG. HEX BOLT
2	88	BF12HS	3/4" HARD STRUCTURAL WASHER
3	44	BN12S	3/4" STOVER LOCK NUT
4	12	B1025	5/8 X 2 1/2" GR.5 PLATED BOLT
5	24	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
6	12	BN10S	5/8" NC STOVER LOCK NUT
7	2	W00371	9815 600hp FRAME EXTENSION BRACE
8	4	B1635	1" NC x 3 1/2" HEX BOLT
9	8	BF16HS	1" HARD STRUCTURAL WASHER
10	4	BN16L	1-8 NC NYLOCK NUT



Wing Installation

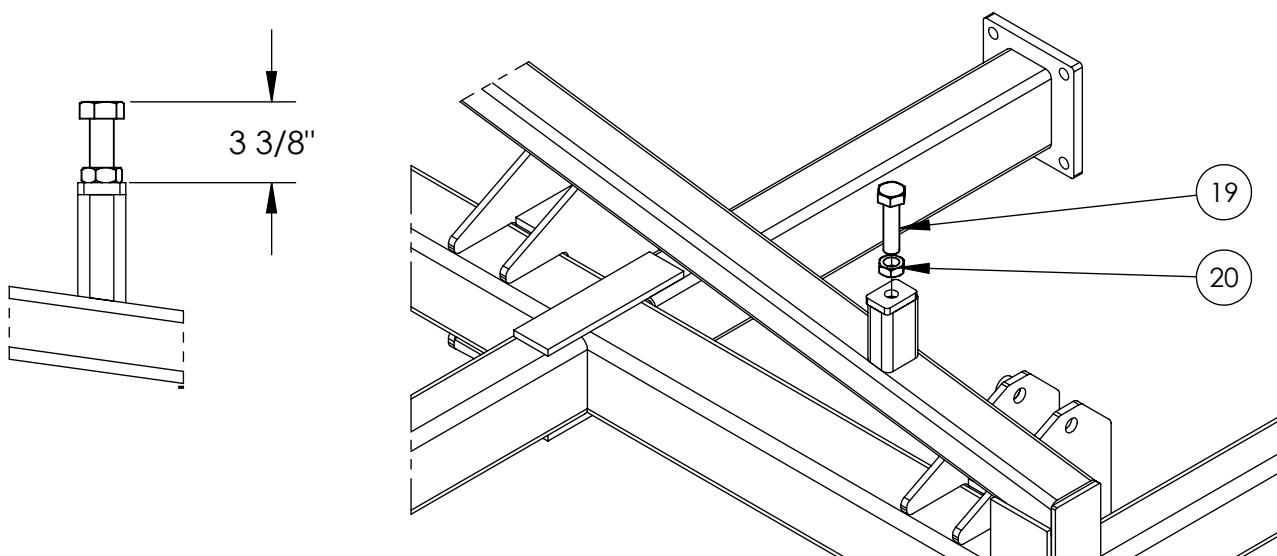


Wing Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	4	HS4024H	HD 4" BORE x 24" STROKE HYD. CYLINDER
2	4	W00348	9800 WING FOLD PRIMARY LINK
3	8	W00349	9800 WING FOLD SECONDARY LINK
4	4	ZD201165	2" OD x 1.28" ID x 2 5/8" SPACER
5	4	GP2400758A09	PIN 1 1/2" DIA. x 7 5/8" LG. - 2 HOLES
6	4	GPH2000734F	1 1/4" x 7 3/4" LG. AXLE PIN - HARDENED
7	8	GPSPEC20016	1 1/4" x 16" PIN - THREADED ENDS
8	16	GM30	1 1/4" MACHINE BUSHING
9	16	BN20SF	1 1/4"NF SLOTTED HEX NUT
10	4	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
11	4	BN10L	5/8" NYLOCK NUT NC
12	8	B0830	1/2"NC x 3" HEX BOLT
13	8	BN08L	1/2" NYLOCK NUT NC
14	16	BSC0425	1/4" x 2 1/2" COTTER PIN
15	4	BSC0415	1/4" x 1 1/2" COTTER PIN
16	4	GF641	1/4"-28NF GREASE FITTING
17	20	GF1610	1/8" NPT GREASE FITTING
18	4	GF1613	1/8" NPT GREASE FITTING 90deg
19	2	B1640TH	1" x 4" NC TAP BOLT
20	2	BN16J	1"NC JAM NUT
21	4	GBB125100100	1 1/4" x 1" x 1" LG. HARD BUSHING
22	8	GBB150125200	1 1/2" x 1 1/4" x 2" LG. HARD BUSHING
23	32	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING

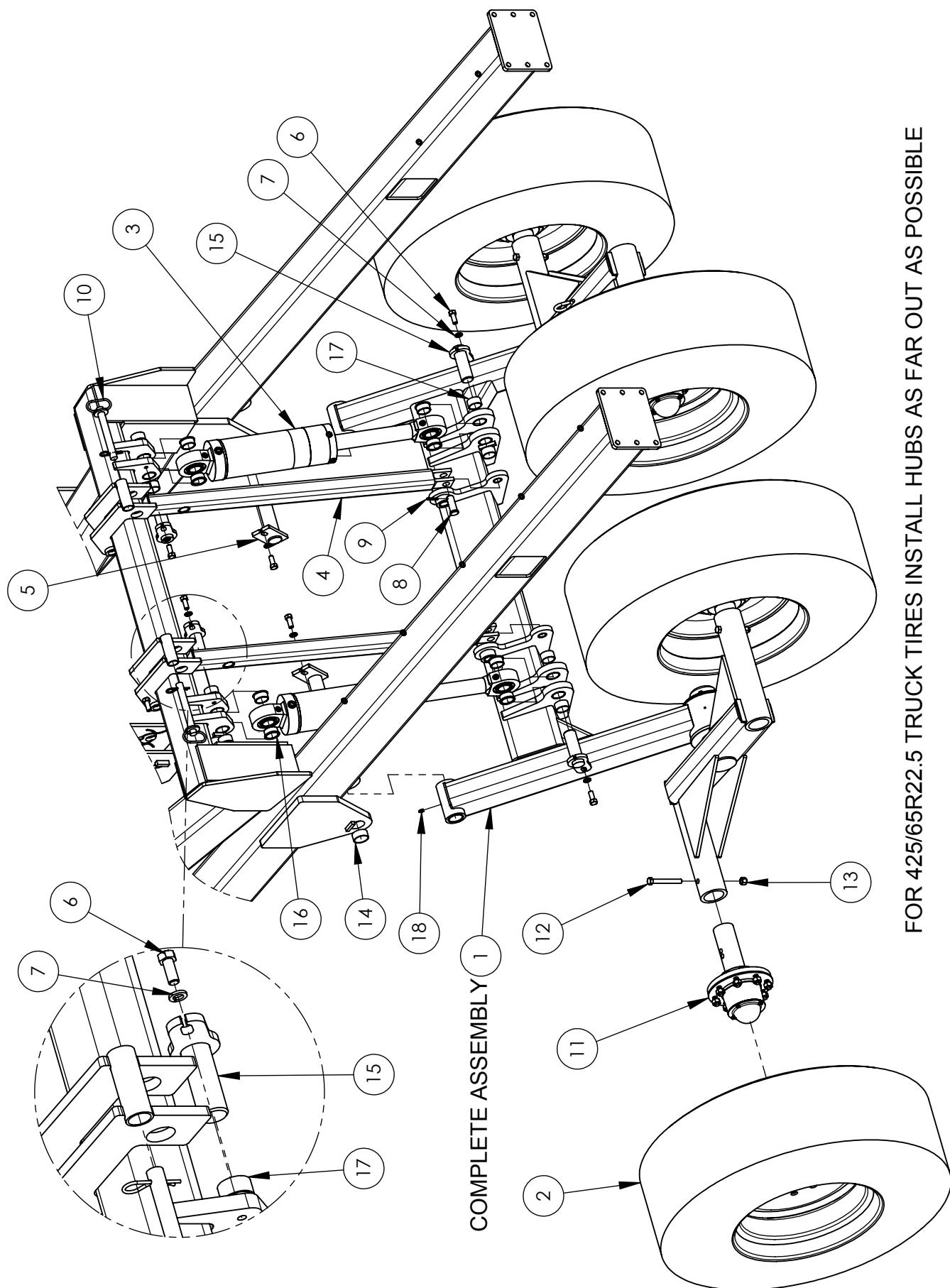


CAUTION Connect hoses and charge cylinders with fluid before connecting rod ends of cylinders.



Axles and Self Level

Axe Installation



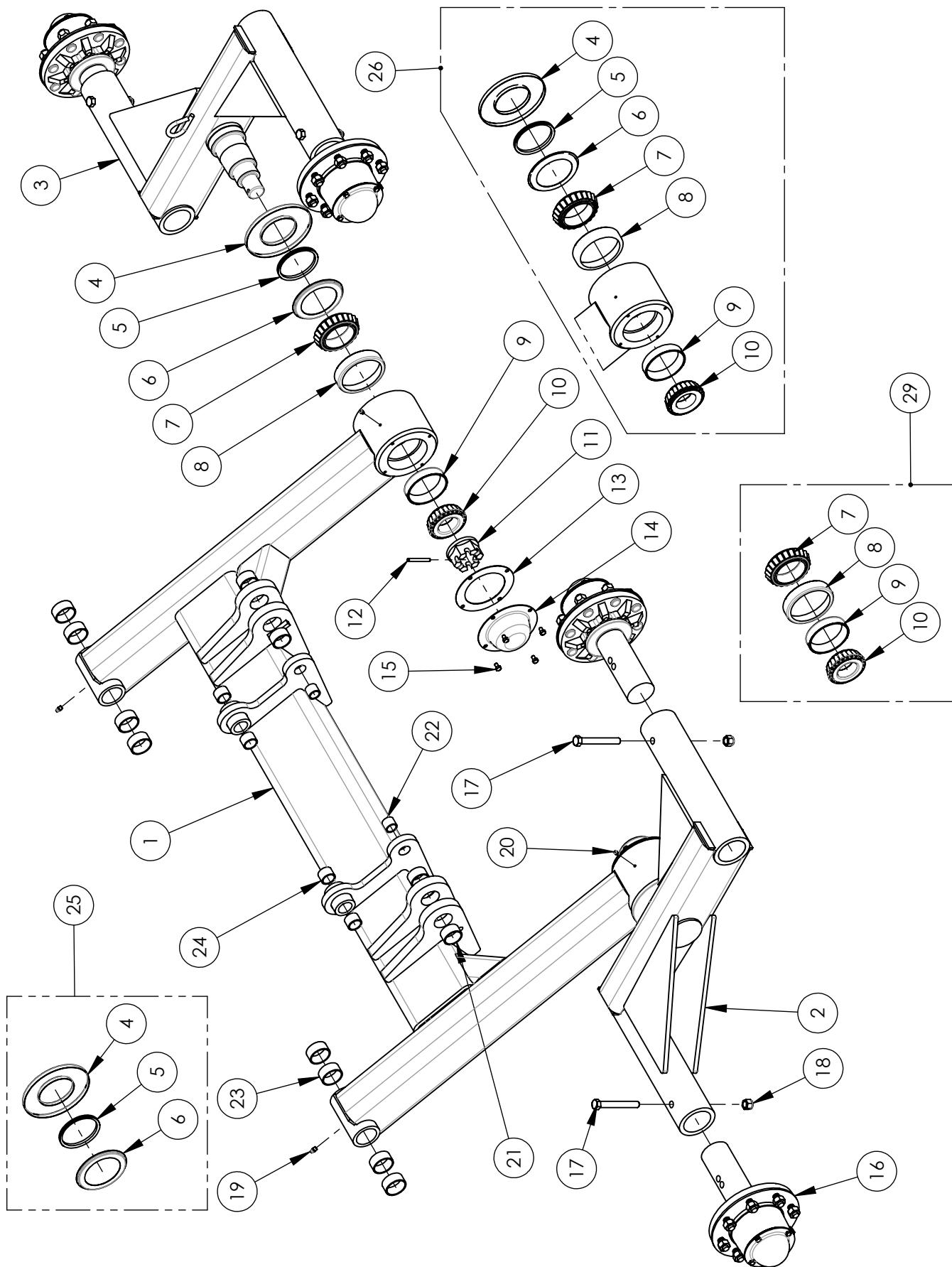
Axle Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C00161	9800 600hp ROCKSHAFT AXLE ASSEMBLY
2	4	GW18228	425/65R x 22.5 x 8 BOLT WHEEL - RECAP
3	2	HS5012BBJ	5"HD HYD. CYLINDER W/ BALL JOINT ENDS - 12" STROKE
4	2	A60043	510/9700/9800 TRANSPORT LOCK
5	2	GPSPEC32009	Ø 2" x 9" FLATBAR PIN
6	6	B1015	5/8 X 1 1/2" PLATED BOLT
7	6	BL10	5/8" LOCKWASHER
8	2	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
9	2	BSC0415	1/4" x 1 1/2" COTTER PIN
10	2	GP1600714C04	1" x 7 1/4" HITCH PIN
11	4	GW12000A15	12000 LB HUB AND 15" SPINDLE ASSEMBLY
12	4	B1050	5/8" NF x 5" LG. HEX BOLT GR. 8 PLATED
13	4	BN10L	5/8" NYLOCK NUT NC
14	4	GBB225200100	2 1/4" x 2" x 1" LG. HARD BUSHING
15	4	GPH2800512F	1 3/4" DIA. X 5 1/2" LG. HARD PIN
16	8	A60121	2" X 1 3/4" X 0.969" LG. SHOULDER BUSHING
17	8	GBB200175100	2" x 1 3/4" x 1" LG. HARD BUSHING
18	2	GF1610	1/8" NPT GREASE FITTING



CAUTION Connect hoses and charge lift axle cylinders with fluid before connecting rod ends of cylinders.

Axle Parts

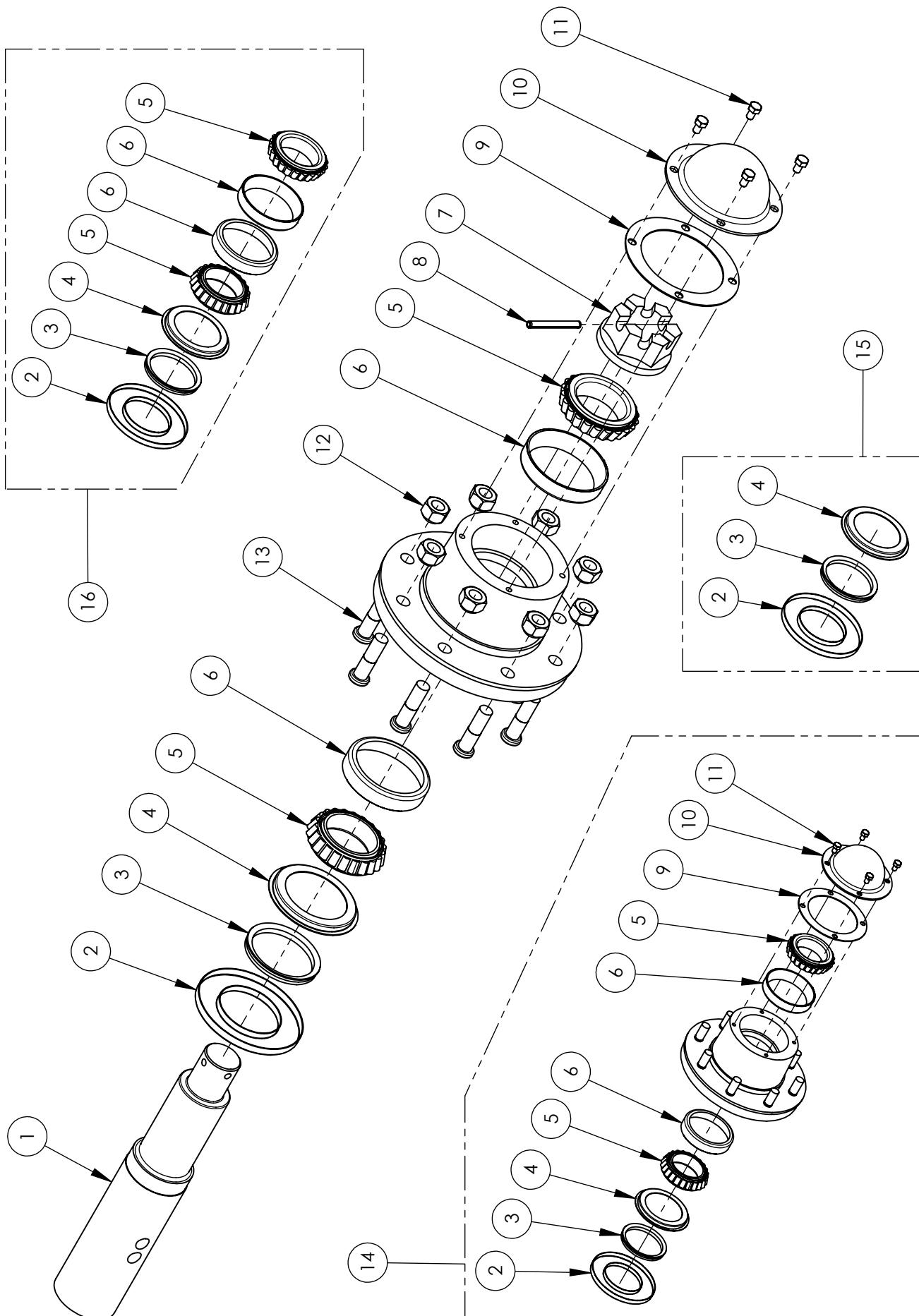


Axe Parts

ITEM	QTY	PART NO.	DESCRIPTION
1	1	W00317	9800 600hp ROCKSHAFT AXLE WLDT
2	1	C00105L	9800 600hp TANDEM WALKER - LH
3	1	C00105R	9800 600hp TANDEM WALKER - RH
4	2	GW16110VW	16000 LB V-SEAL GRASS WRAP GUARD
5	2	GW16110VS	16000 LB V-SEAL
6	2	GW16110VC	16000 LB V-SEAL COUNTERFACE
7	2	GB47687	16000 LB INNER CONE
8	2	GB47620	16000 LB INNER CUP
9	2	GB39520	16000 LB OUTER CUP
10	2	GB39585	16000 LB OUTER CONE
11	2	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
12	2	BSR0527	5/16" x 2 3/4" ROLL PIN
13	2	GW16112S	16000 LB DUST CAP SEAL
14	2	GW16112	16000 LB DUST CAP
15	8	B0505	5/16"NC x 1/2" LG. HEX BOLT
16	4	GW12000A15	12000 LB HUB AND 15" SPINDLE ASSEMBLY
17	4	B1050	5/8" NF x 5" LG. HEX BOLT GR. 8 PLATED
18	4	BN10L	5/8" NYLOCK NUT NC
19	2	GF1610	1/8" NPT GREASE FITTING
20	2	GF641	1/4"-28NF GREASE FITTING
21	4	GBB200175100	2" x 1 3/4" x 1" LG. HARD BUSHING
22	2	GBB125100100	1 1/4" x 1" x 1" LG. HARD BUSHING
23	8	GBB225200100	2 1/4" x 2" x 1" LG. HARD BUSHING
24	4	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
25	1	GW16110VT	16000 LB TANDEM V-SEAL KIT
26	1	GW16111V	16000 LB TANDEM BEARINGS WITH V-SEAL KIT
27	1	GW16111-1	16000LB BEARING KIT

Items 7-10 not sold as individual parts
only sold as complete repair kits
shown 25, 26 & 27

12000 lb Hub and Spindle Assembly



12000 lb Hub and Spindle Assembly

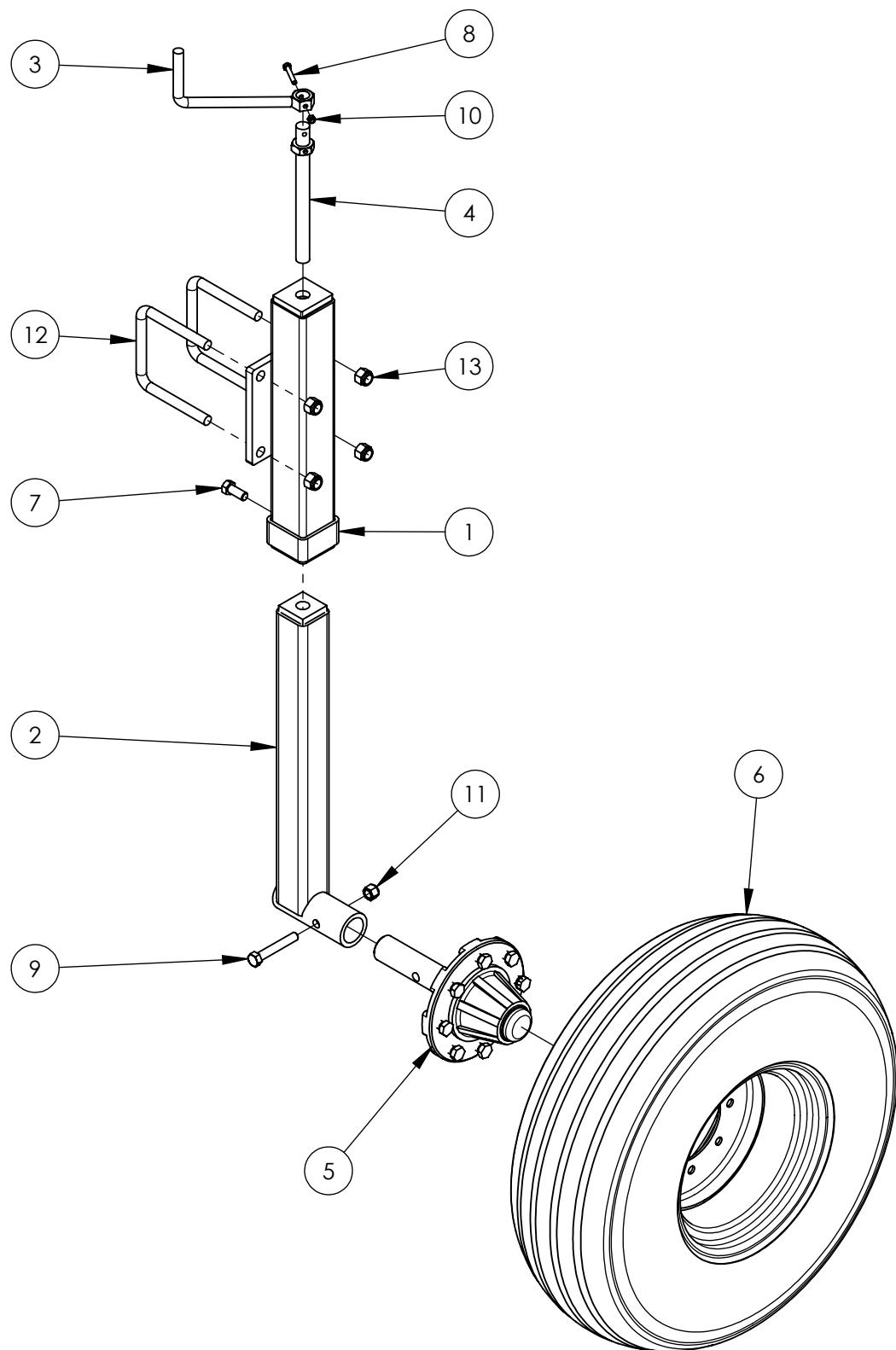
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GW12015	12000 LB SPINDLE - 15" LONG
2	1	GW12110VW	10000/12000 LB GRASS WRAP GUARD
3	1	GW12110VS	10000/12000 LB V-SEAL
4	1	GW12110VC	10000/12000 LB COUNTERFACE
5	2	GB28995	12000 LB CONE, 10000 LB INNER CONE
6	2	GB28921	12000 LB CUP, 10000 LB INNER CUP
7	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
8	1	BSR0527	5/16" x 2 3/4" ROLL PIN
9	1	GW12112S	12000 LB DUST CAP SEAL
10	1	GW12112	12000 LB DUST CAP
11	4	B0505	5/16"NC x 1/2" LG. HEX BOLT
12	8	BW10	5/8" WHEEL LUG NUT
13	8	BW1020	5/8" x 2" PRESS-IN WHEEL STUD
14	1	GW12000	12000 LB HUB WITH BEARINGS, SEAL, & DUST CAP
15	1	GW12110V	10000/12000 LB V-SEAL KIT
16	1	GW12111V	12000 LB BEARING WITH V-SEAL KIT

Entire assembly available as part number GW12000A15 (includes hub, spindle, bearings, seal, dust cap, and hardware).



NOTE: TIGHTEN LUG NUTS ONCE PER DAY FOR FIRST WEEK

Optional Gauge Wheel Assembly

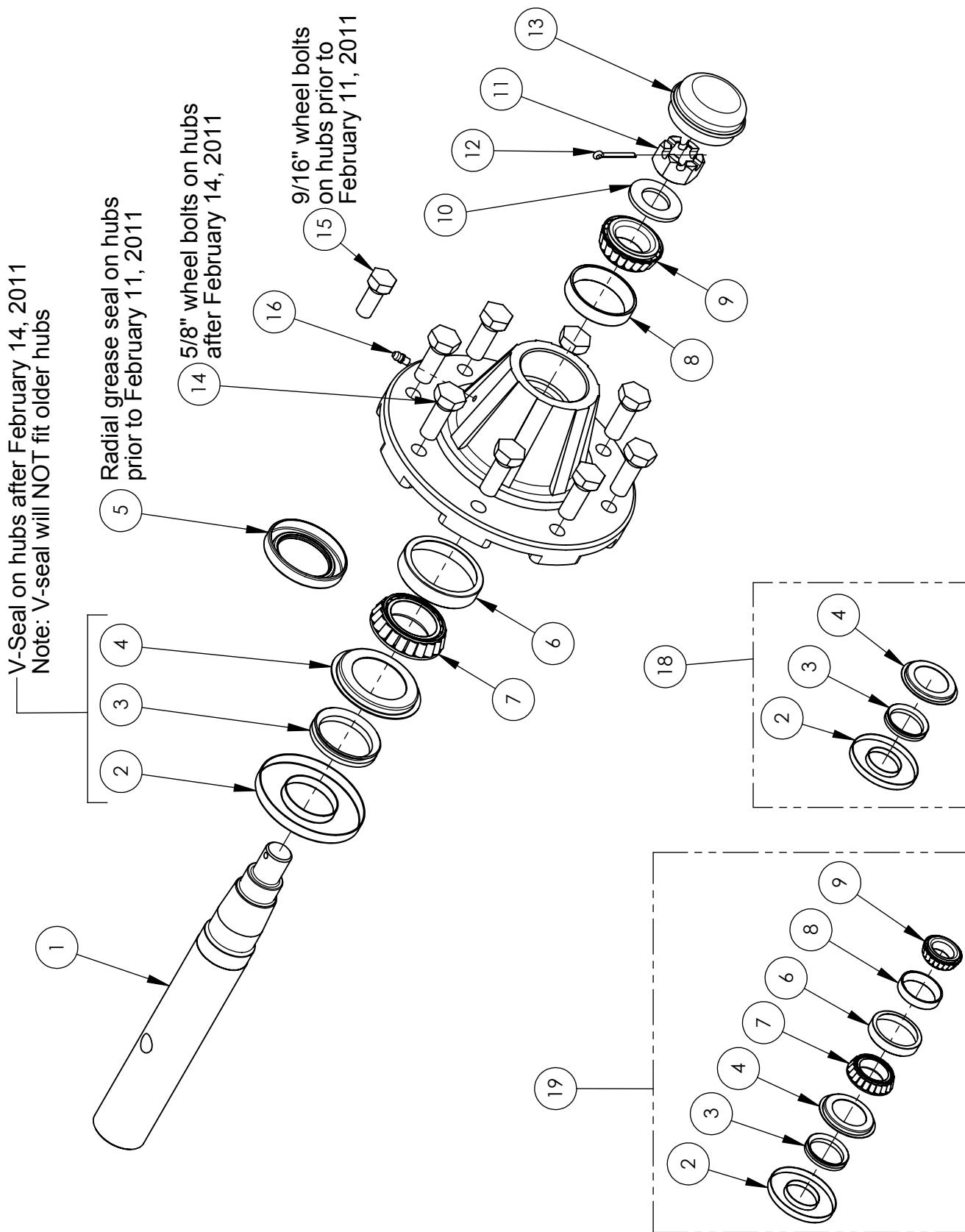


Optional Gauge Wheel Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	W00309	9800 GAUGE WHEEL MOUNT
2	1	P4502A	GAUGE WHEEL BOTTOM - HEAVY
3	1	P4502C	GAUGE WHEEL HANDLE WELDMENT
4	1	P4502D	GAUGE WHEEL SCREW WELDMENT
5	1	GW5500A	5500 LB HUB AND SPINDLE ASSEMBLY
6	1	GW12158	12.5L x 15FL x 8 BOLT WHEEL & TIRE (12 PLY HIGHWAY)
7	1	B1015	5/8 X 1 1/2" PLATED BOLT
8	1	B0520	5/16"NC x 2" BOLT
9	1	B1040	5/8"NC x 4" LG. HEX BOLT
10	1	BN05L	5/16" LOCK NUT
11	1	BN10L	5/8" NYLOCK NUT NC
12	2	BU1260	3/4" x 6 x 6 1/2" U-BOLT
13	4	BN12L	3/4" NC NYLOCK NUT

Complete 9800 gauge wheel assembly available as part number W00373.

5500 lb Hub and Spindle Assembly

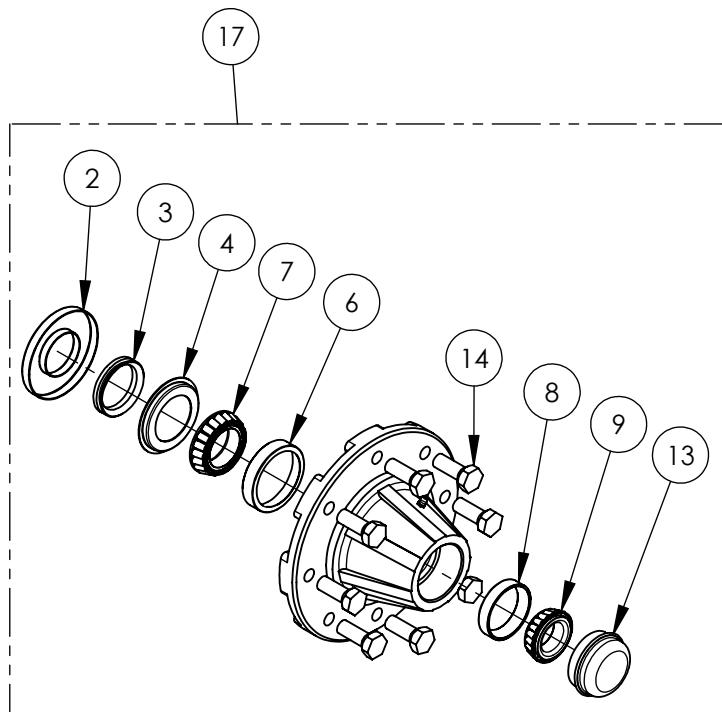


5500 lb Hub and Spindle Assembly

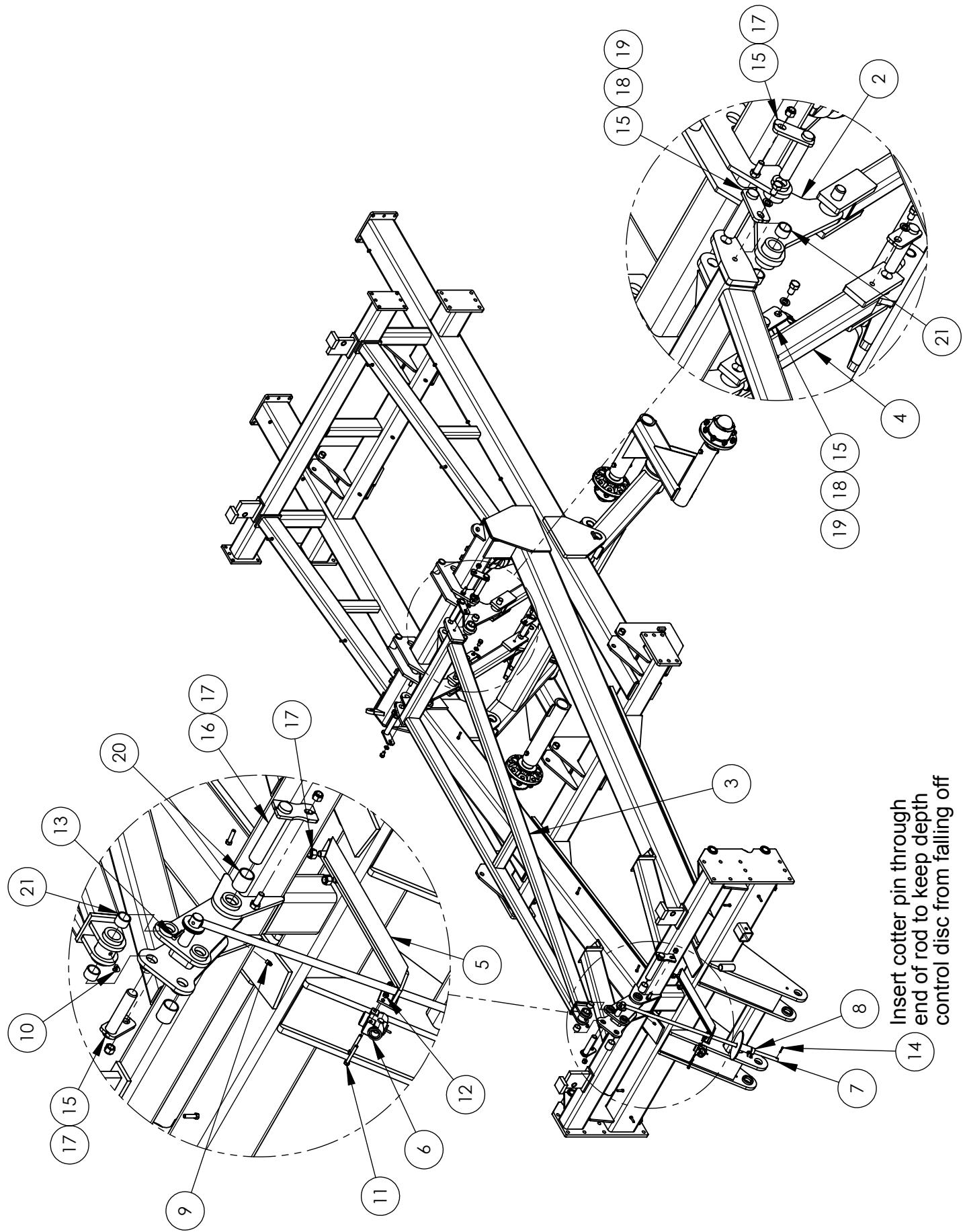
ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW5014	5000/5500 LB SPINDLE-14 IN. LG
2	1	GW5110VW	5000/5500 LB V-SEAL GRASS WRAP GUARD
3	1	GW5110VS	5000/5500 LB V-SEAL
4	1	GW5110VC	5000/5500 LB SEAL COUNTERFACE
*	5	GW5110	5000/5500 LB GREASE SEAL
	6	GB603011	5000/5500 LB INNER CUP
	7	GB603049	5000/5500 LB INNER CONE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

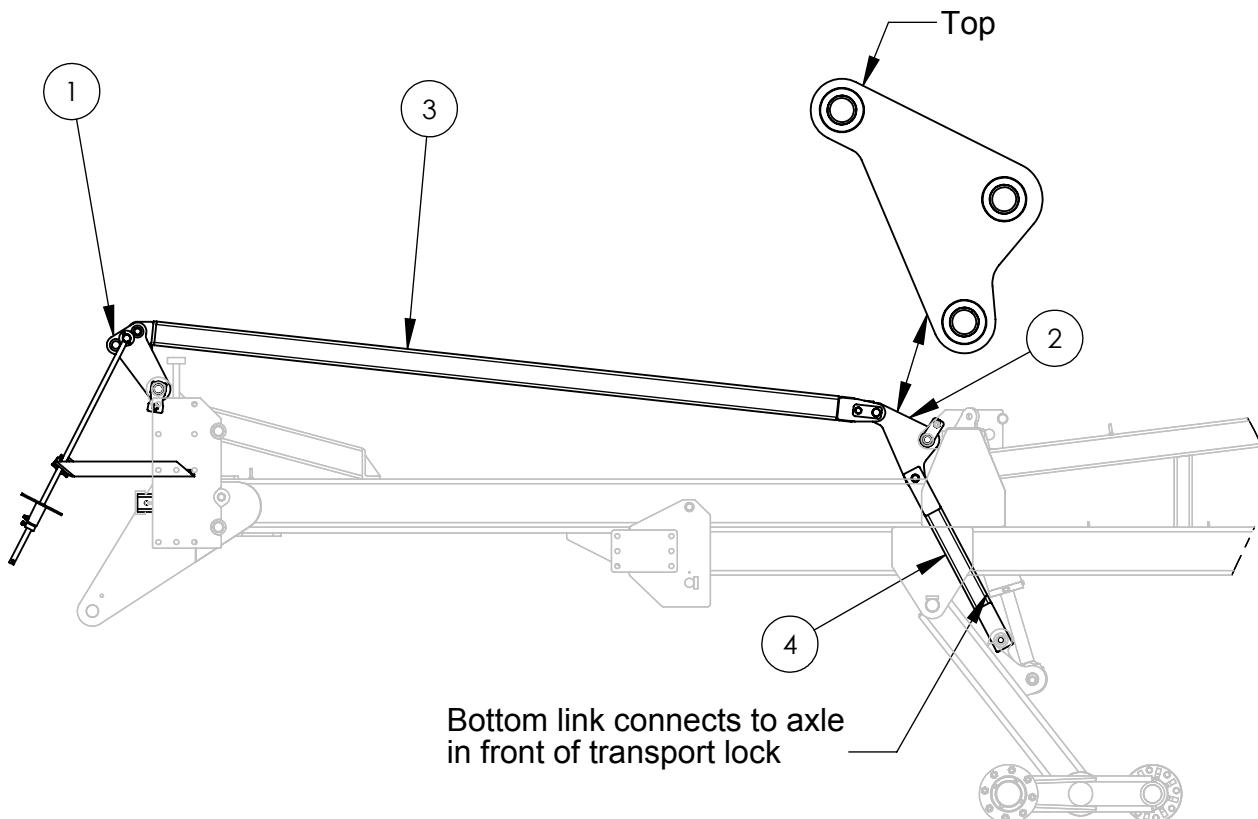


Self-Level Installation



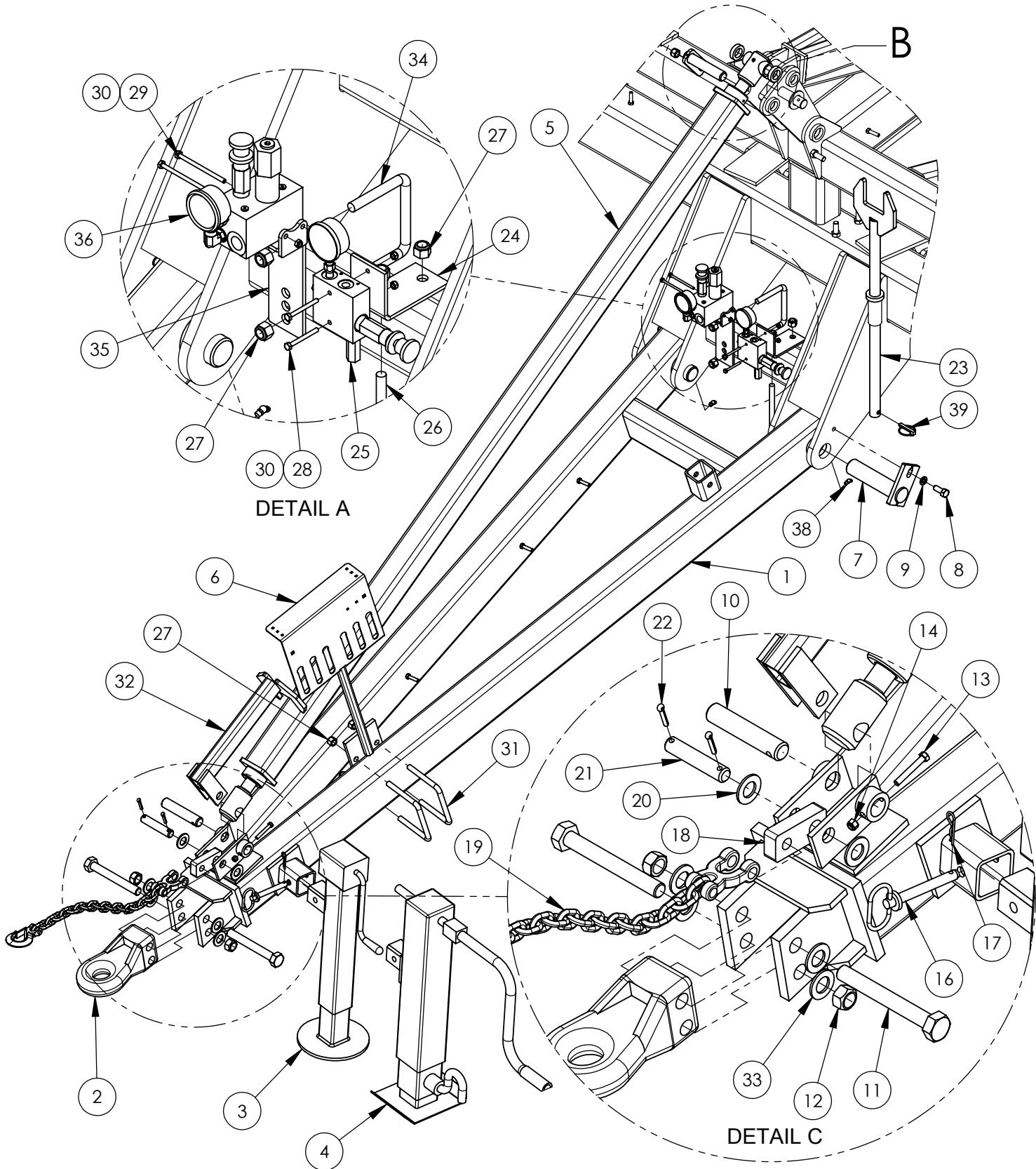
Self-Level Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	W00313	9800 600hp SELF-LEVEL FRONT ROCKER
2	2	W00314	9800 600hp SELF-LEVEL REAR ROCKER
3	1	W00315	9800 600hp SELF-LEVEL TOP LINK
4	2	W00316	9800 600hp SELF-LEVEL BOTTOM LINK
5	1	W00344	9800 600hp DEPTH CONTROL BRACKET
6	1	HPMSC10	STROKE CONTROL VALVE
7	1	W00399	9800 DEPTH CONTROL ROD
8	1	C1008	DEPTH CONTROL DISC ASSEMBLY
9	1	GF1610	1/8" NPT GREASE FITTING
10	1	GF1613	1/8" NPT GREASE FITTING 90deg
11	2	B0525	5/16 x 2 1/2" BOLT
12	2	BN05L	5/16" LOCK NUT
13	1	BSC0520	5/16" x 2" COTTER PIN
14	1	BSC0415	1/4" x 1 1/2" COTTER PIN
15	9	GPH2000612F	1 1/4" x 6 1/2" LG. PIN - HARDENED
16	1	GPH2400814F	1 1/2" x 8 1/4" LG. HARD PLATE PIN
17	6	BN10L	5/8" NYLOCK NUT NC
18	6	B1010	5/8"NC x 1" HEX BOLT
19	6	BL10	5/8" LOCKWASHER
20	2	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
21	15	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING



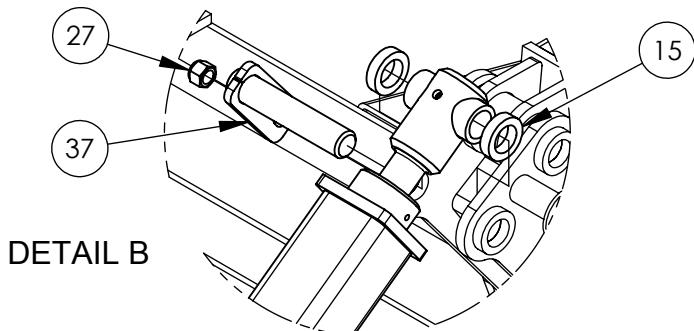
Tongue

Tongue Installation



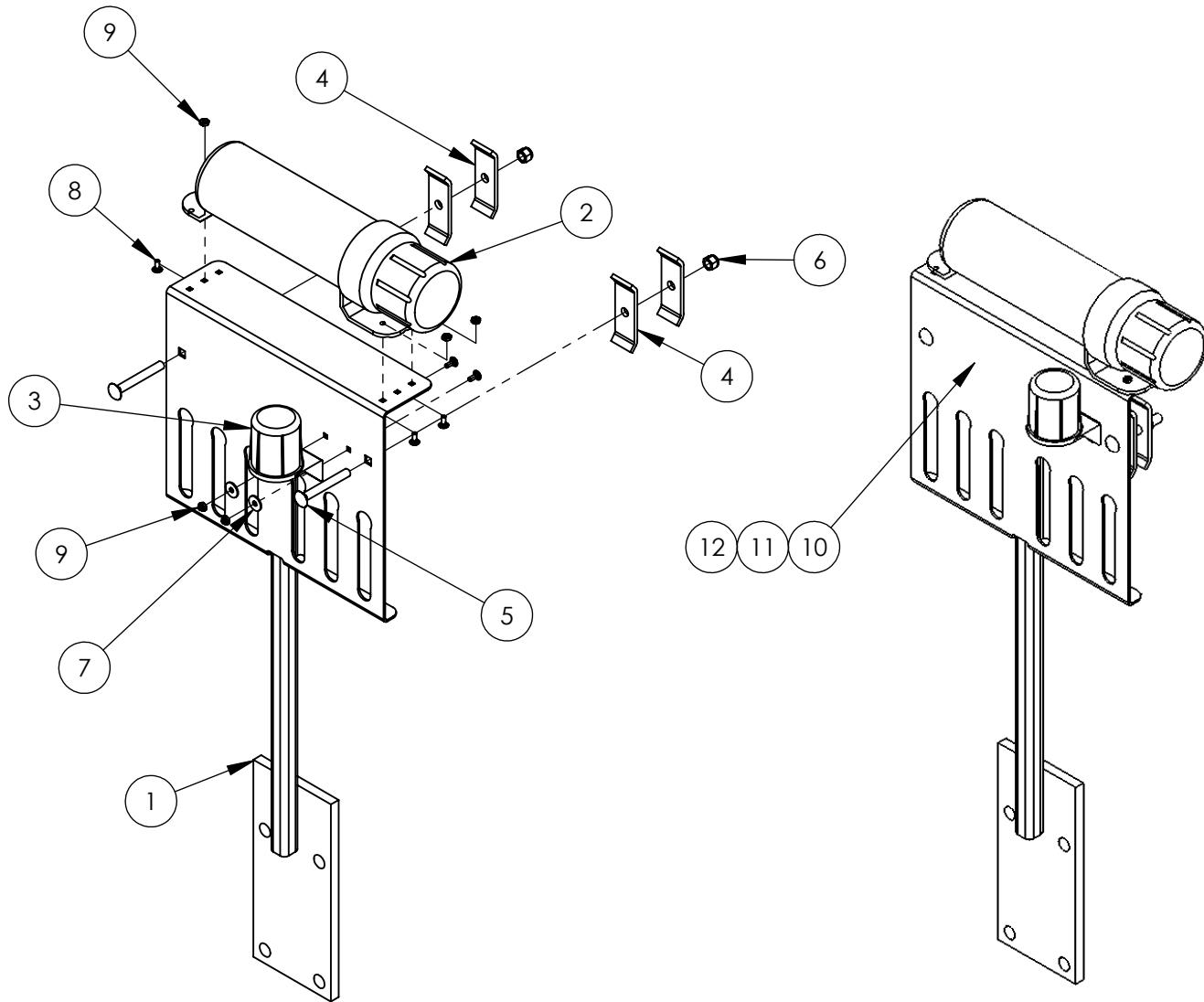
Tongue Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	W00312	2008 9800 WING FOLD TONGUE
2	1	PPI-42XL	CAT 4 CAST IRON HITCH
3	1	GJ8003	8000 LB JACK W/ HD SQ. MOUNT FOR 9800
4	1	GJ10002	10,000 LB JACK WITH SQUARE MOUNT
5	1	W00329	9800 600hp TELESCOPE WLDT
6	1	W00385	9800 OPERATOR STATION/HOSE HOLDER
7	2	GPSPEC32009	Ø 2" x 9" FLATBAR PIN
8	2	B1015	5/8 X 1 1/2" PLATED BOLT
9	2	BL10	5/8" LOCKWASHER
10	1	GP2000614B07	PIN 1 1/4" DIA. x 6 1/4" LG. - 1 HOLE
11	2	B1680H	1" x 8" NC HEX BOLT GR. 8
12	2	BN16C	1"- UNC STOVER LOCKNUT
13	1	B0625	3/8"NC x 2 1/2" LG. HEX BOLT
14	1	BN06L	3/8"-16NC LOCK NUT
15	2	ZD201002	1.280" ID x 2" OD x 1/2" LG COLLAR
16	1	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
17	1	GHP11	#11 HAIR PIN
18	1	L01063	35,000 LB SAFETY CHAIN ADAPTOR
19	1	GJ35K48	35,000 LB SAFETY CHAIN - 48" LG.
20	2	BF16S	1" SAE WASHER
21	1	GP16005A05	PIN 1" DIA. x 5" LG. - 2 HOLES
22	2	BSC0515	5/16" x 1 1/2" COTTER PIN
23	1	A60091	3 1/2" TURNBUCKLE TELESCOPE ADJUSTER
24	1	L00539	HYDRAULIC VALVE MOUNT PLATE
25	1	HV1171	PRESSURE REDUCING VALVE
26	1	BU1036	5/8 x 3 x 6 1/2 U-BOLT
27	9	BN10L	5/8" NYLOCK NUT NC
28	2	B0425	1/4"NC x 2 1/2" LG. HEX BOLT GR. 5
29	2	B0440	1/4" NC x 4" LG. HEX BOLT GR. 5
30	4	BN04L	1/4" LOCK NUT
31	2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
32	1	C11058	699/RT99 TELESCOPE LOCK
33	4	BF16HS	1" HARD STRUCTURAL WASHER
34	1	BU1050	5/8" x 5 x 4 1/2" U-BOLT
35	1	W00406	MOUNT FOR HV8263
36	1	HV8263	PRESSURE REDUCING VALVE W/ HI-FLOW RELIEF
37	1	GPH2000612F	1 1/4" x 6 1/2" LG. PIN - HARDENED
38	2	GF1688	1/8" NPT GREASE FITTING 45deg
39	1	GHP15	7/16 X 2" LYNCH PIN



Hose Holder Assembly

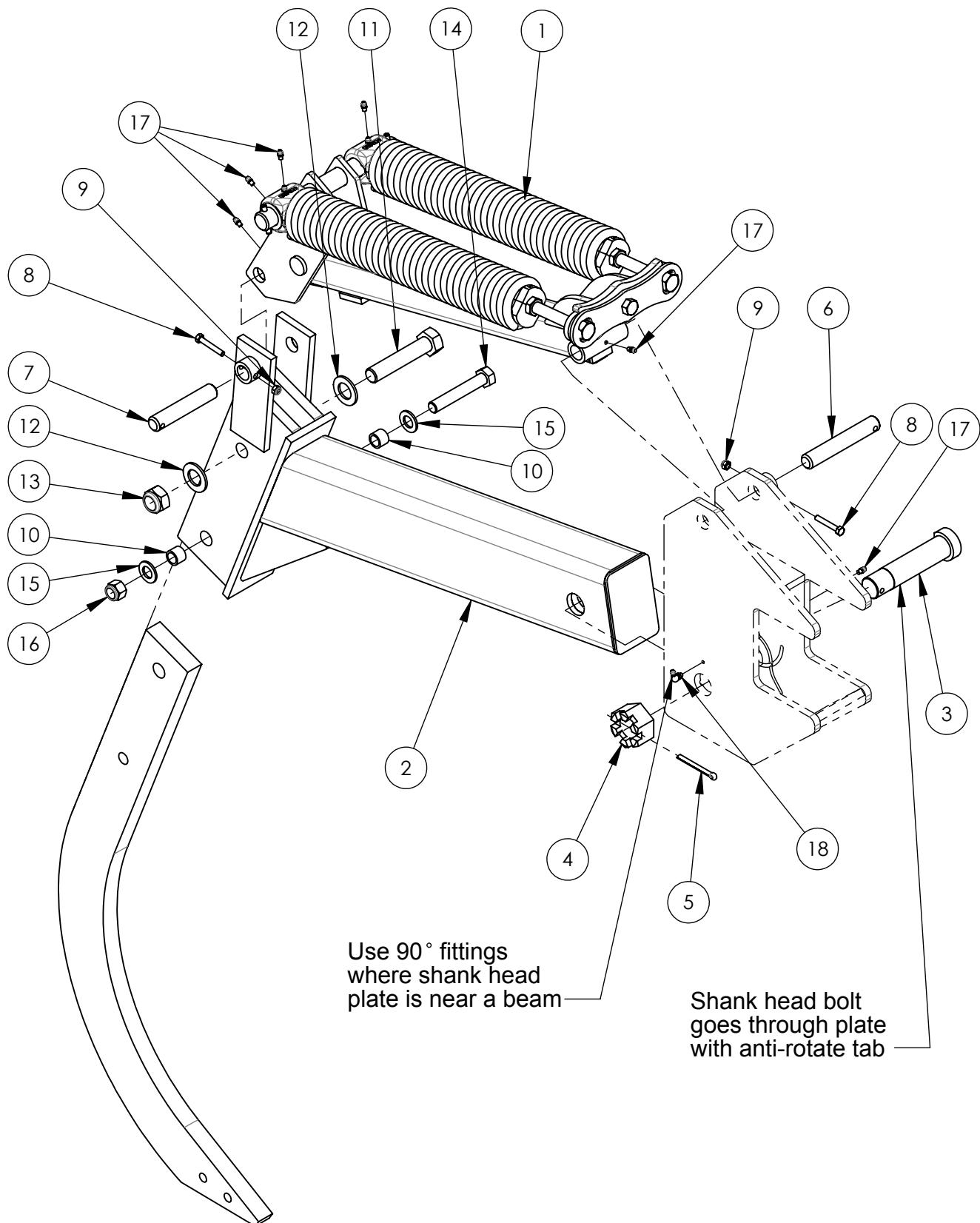
ITEM	QTY	PART NO.	DESCRIPTION
1	1	W00385	9800 OPERATOR STATION/HOSE HOLDER
2	1	G106	HD OPERATORS MANUAL HOLDER
3	1	GL11750	LIGHT PLUG HOLDER - PLASTIC
4	4	P0160B	HOSE CLAMP 4"
5	2	BC0630	3/8"NC x 3" LG. CARRIAGE BOLT
6	2	BN06L	3/8"-16NC LOCK NUT
7	2	BF04	1/4" FLATWASHER
8	5	BC0205	10-24 x 1/2" A307A LOW CARBON ZINC CARRIAGE BOLT
9	5	BN02	#10-24 HEX NUT
10	1	GDSW4	SAFE OPERATION LIST DECAL
11	1	GDSW700	HIGH PRESSURE FLUID HAZARD DECAL
12	1	GD210	HOSE IDENTIFICATION DECAL



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Shanks

Shank Assembly

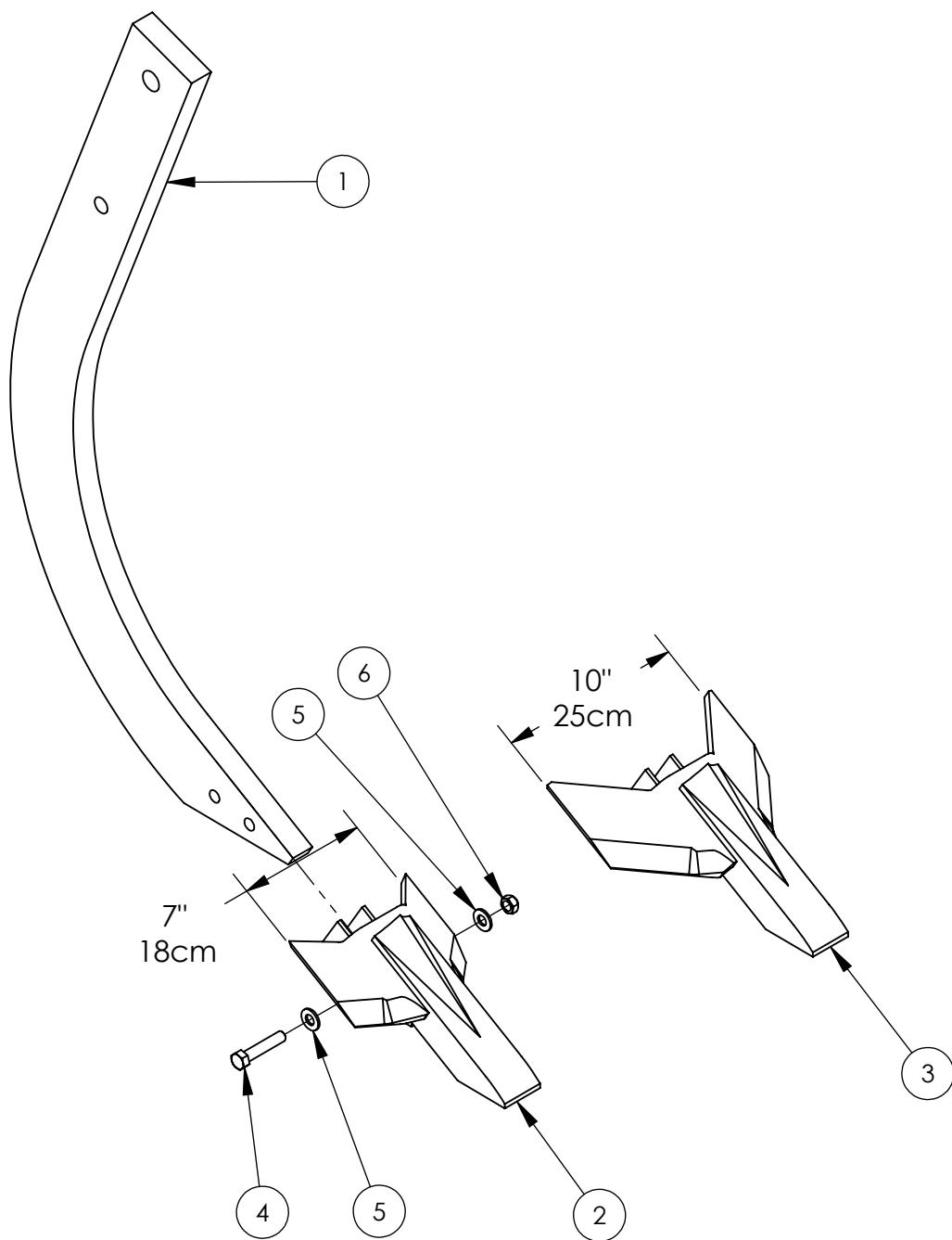


Shank Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	W00391	9700 AUTO RESET SPRING TRIP
2	1	W00180	9800 UPPER SHANK WELDMENT
3	1	P1263	1 1/2" SHANK PIN - MACHINED
4	1	BN24SF	1 1/2" SLOTTED HEX NUT GR5 FINE THREAD
5	1	BSC0530	5/16" x 3" COTTER PIN
6	1	GP1600614B05	PIN 1" DIA. x 6 1/4" LG - 1 HOLE
7	1	GP1600538B05	PIN 1" DIA. x 5 3/8" LG. - 1 HOLE
8	2	B0520	5/16"NC x 2" BOLT
9	2	BN05L	5/16" LOCK NUT
10	2	GBB100075075	1" x 3/4" x 3/4" LG. HARD BUSHING
11	1	B1650	1"NC x 5" LG. HEX BOLT GR.5
12	2	BF16HS	1" HARD STRUCTURAL WASHER
13	1	BN16L	1-8 NC NYLOCK NUT
14	1	B1245-2	3/4" NC x 4 1/2" HEX BOLT GR. 2
15	2	BF12HS	3/4" HARD STRUCTURAL WASHER
16	1	BN12L	3/4" NC NYLOCK NUT
17	6	GF641	1/4"-28NF GREASE FITTING
18	1	GF911	1/4"28NF x 90 DEGREE GREASE FITTING

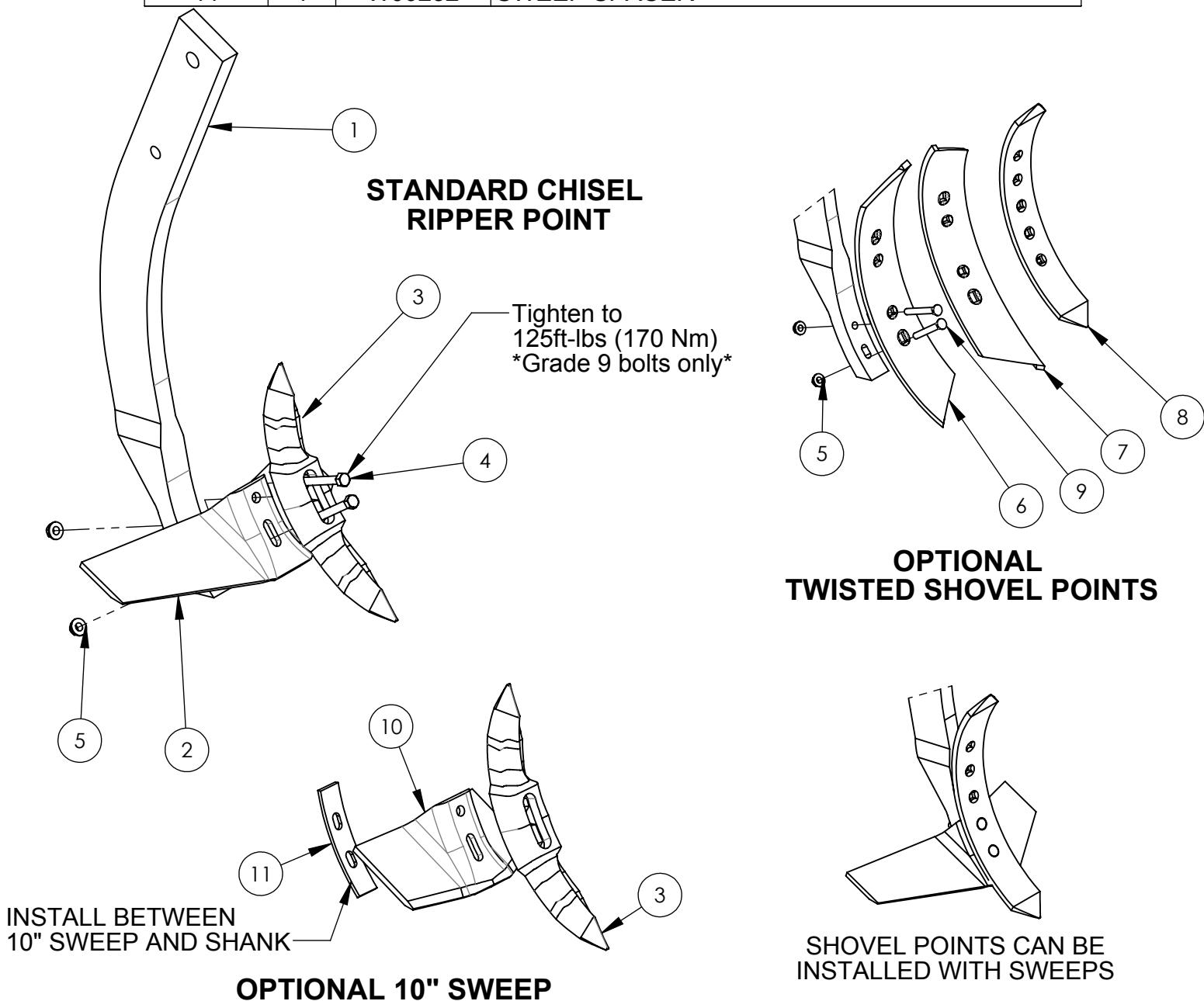
Parabolic Shank Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	CT3539	1 1/4" x 4" PARABOLIC SHANK
2	1	CT41711440	7" WINGED & BOOTED SUBSOILER POINT
3	1	CT411011440	10" WINGED & BOOTED SUBSOILER POINT
4	1	B0825	1/2"NC x 2 1/2" LG. HEX BOLT
5	2	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
6	1	BN08S	1/2"-13NC STOVER LOCK NUT

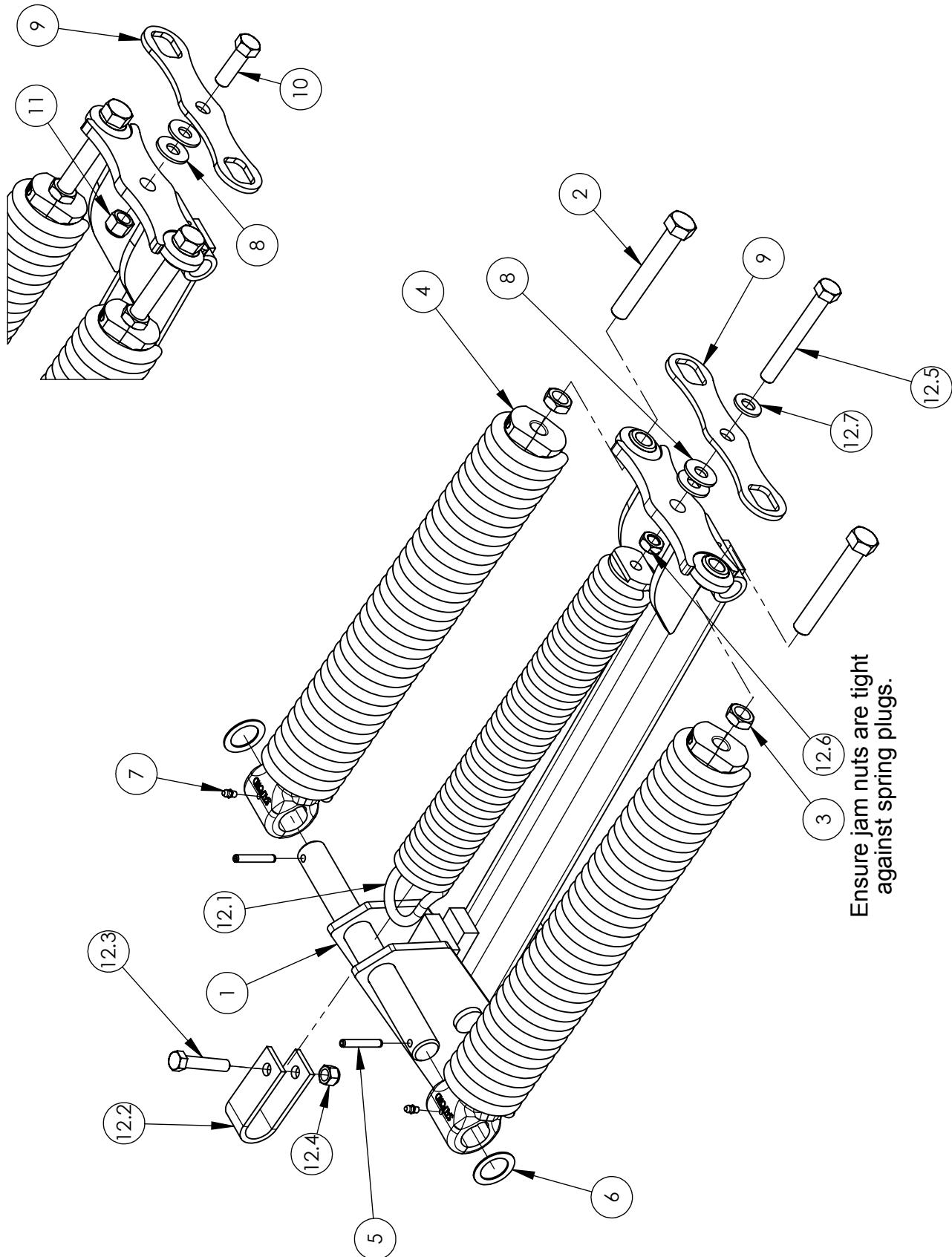


Chisel Ripper Shank Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	CT3540	1 1/4" x 4" CHISEL RIPPER LOWER SHANK
2	1	CT1573	17" SWEEP
3	1	CT8235C	2 1/2" X 1" X 20" CHISEL
4	2	B0840-9	1/2"-13NC x 4" LG. HEX BOLT GR. 9
5	2	BN08SF	1/2"-13NC FLANGE STOVER LOCK NUT GR. 8
6	1	CT4008L	4" TWISTED SHOVEL LH
7	1	CT4008R	4" TWISTED SHOVEL RH
8	1	CT1508	3" STRAIGHT CHISEL POINT
9	2	BP0840H	1/2"-13NC x 4" PLOW BOLT GR. 8
10	1	CT1573-10A	10" SWEEP
11	1	W00232	SWEET SPACER



Auto Reset Spring Trip

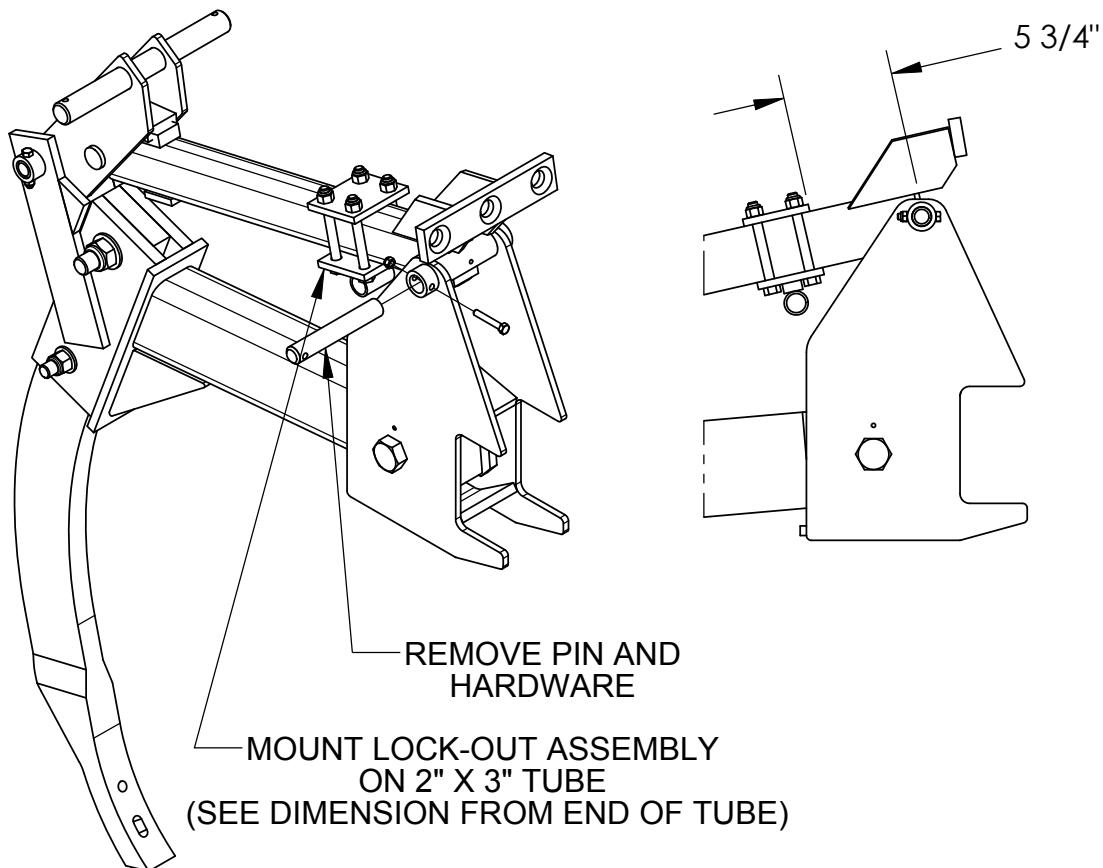


Auto Reset Spring Trip

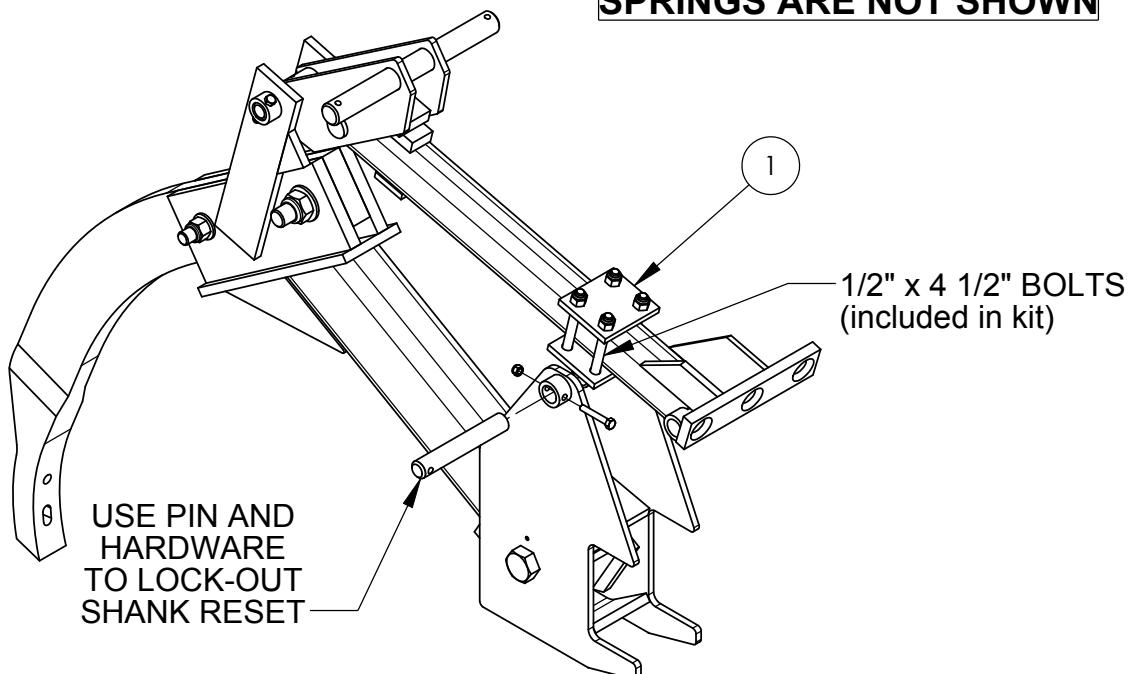
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	W00390	TRIP ASSEMBLY
2	2	B1250T	3/4" NC x 5" TAP BOLT
3	2	BN12J	3/4" JAM NUT
4	2	GSE1036B	36 COIL RESET SPRING ASSEMBLY - 3/4"NC HOLE
5	2	BSR0520	5/16 x 2" ROLL PIN
6	2	GM30	1 1/4" MACHINE BUSHING
7	2	GF641	1/4"-28NF GREASE FITTING
8	2	BF10	5/8" FLAT WASHER
9	1	FL00879	TRIP SPRING BOLT RETAINER FOR 3/4" BOLTS
+ 10	1	B1020	5/8 X 2" BOLT GR. 5 PLATED
+ 11	1	BN10L	5/8" NYLOCK NUT NC
12	1	P11043	THIRD RESET SPRING OPTION - COMPLETE KIT
12.1	1	P1136A	THIRD RESET SPRING WITH PLUG
12.2	1	P20061	THIRD SPRING CLEVIS
12.3	1	B0825	1/2"NC x 2 1/2" LG. HEX BOLT
12.4	1	BN08L	1/2" NYLOCK NUT NC
12.5	1	B1050TH	5/8 x 5" TAP BOLT GR. 5
12.6	1	BN10J	5/8" JAM NUT
12.7	1	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER

+ For use without third spring.

Shank Lockout Procedures

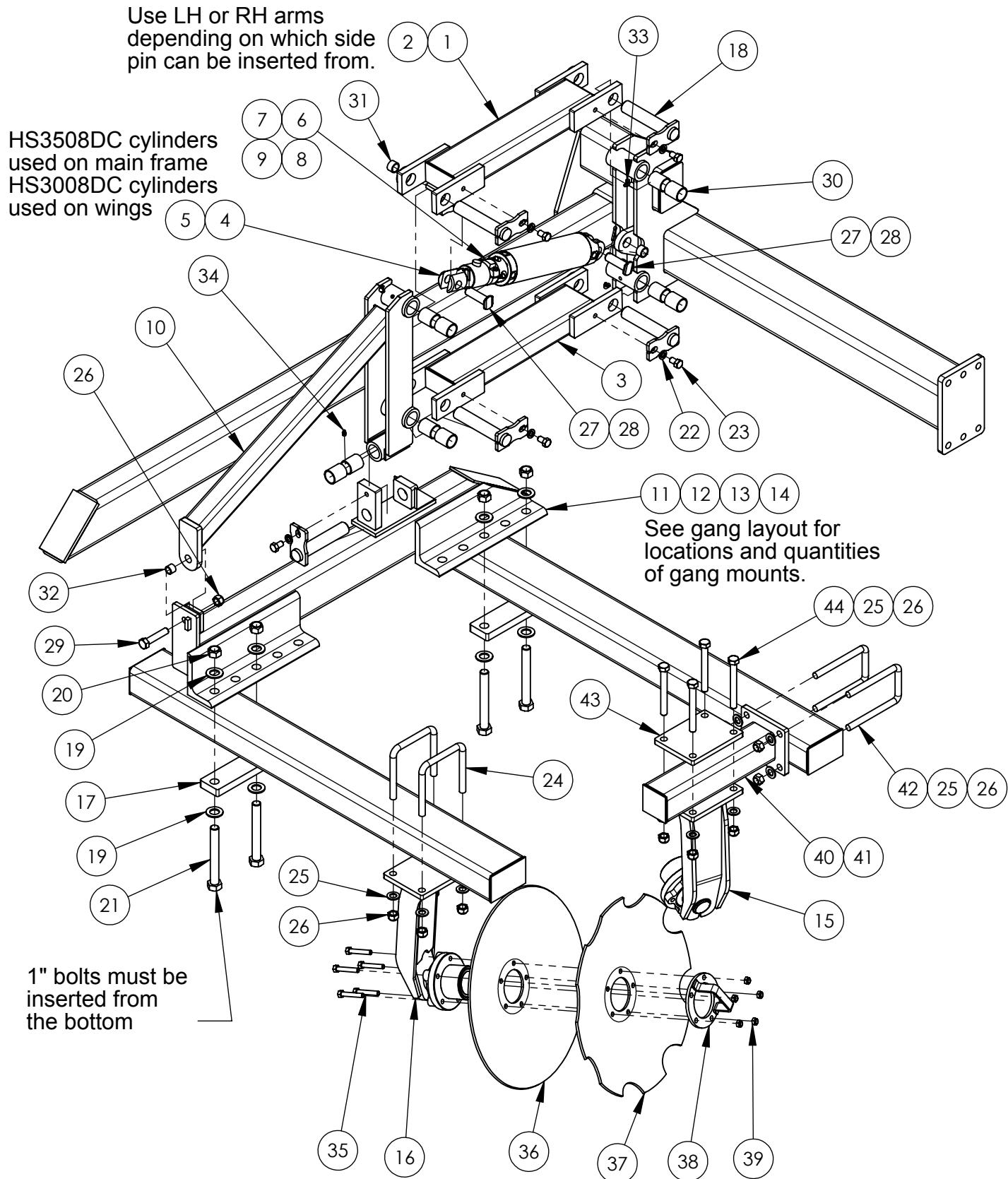


SPRINGS ARE NOT SHOWN



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	W00359	SHANK LOCKOUT ASSEMBLY

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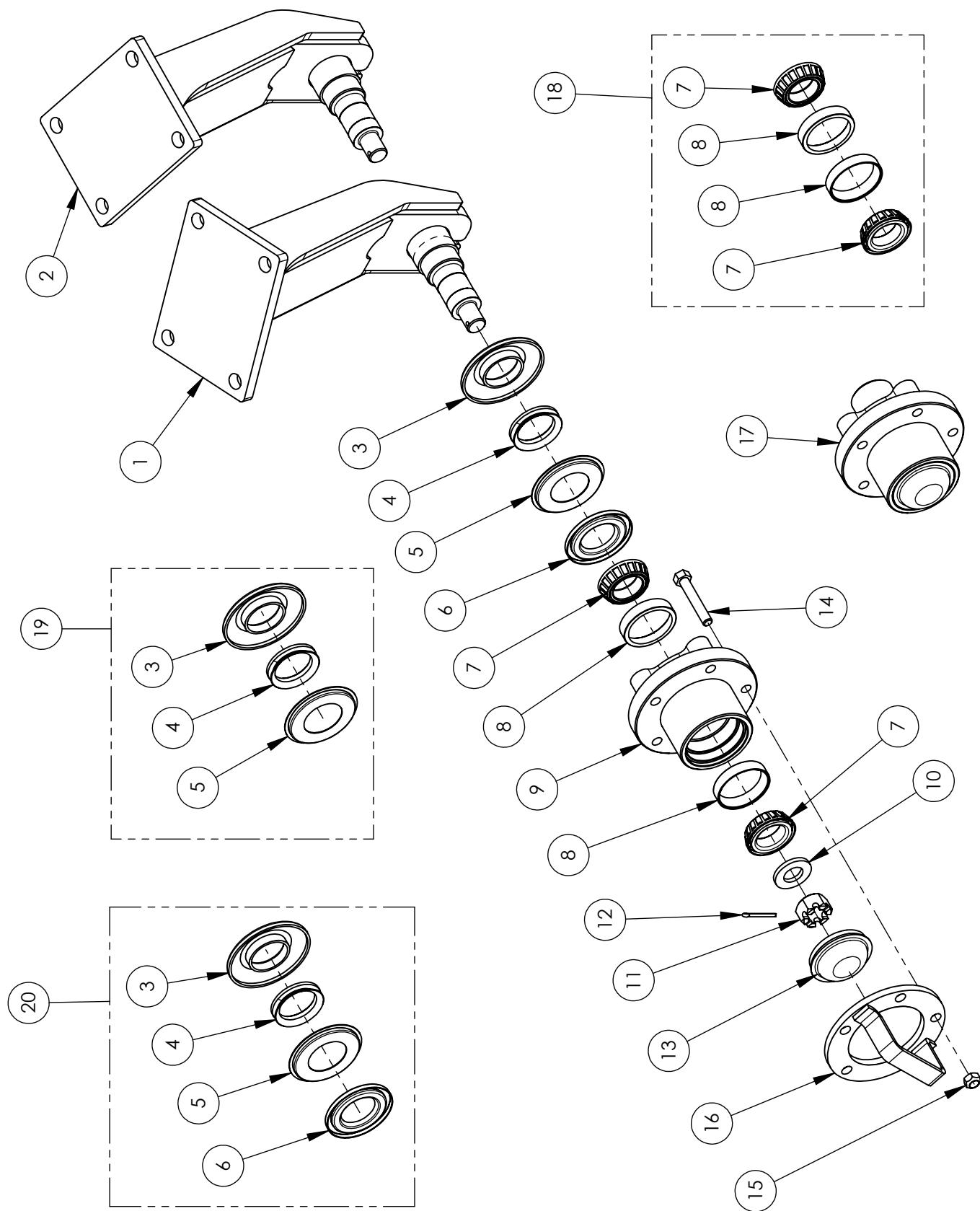
Disc Gangs**Disc Gang Installation**

Disc Gang Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	3	W00152R	9800 UPPER GANG MOUNT ARM - RH
2	3	W00152L	9800 UPPER GANG MOUNT ARM - LH
3	6	W00103	9800 LOWER GANG ARM
4	2	HS3508DC	3 1/2" BORE x 8" STROKE HYD. CYLINDER - 1 1/2" ROD
5	4	HS3008DC	3" BORE x 8" STROKE HYD. CYLINDER
6	2	H2424	1 1/2" CYLINDER SPACER FOR 1 1/2" ROD
7	2	H2416	1" CYLINDER SPACER FOR 1 1/2" ROD
8	4	H2024	1 1/2" CYLINDER SPACER FOR 1 1/4" ROD
9	4	H2016	1" CYLINDER SPACER FOR 1 1/4" ROD
10	6	W00154	9800 GANG HANGER
* 11	1	W00201R2	9800 HD GANG MOUNT - DOUBLE RH
* 12	1	W00201L2	9800 HD GANG MOUNT - DOUBLE LH
* 13	1	W00201L	9800 HD GANG MOUNT - LH
* 14	1	W00201R	9800 HD GANG MOUNT - RH
* 15	1	W00407LA	9800 COULTER MOUNT ASSEMBLY - LH
* 16	1	W00407RA	9800 COULTER MOUNT ASSEMBLY - RH
17	12	L00652	1" x 3" x 9" 9800 GANG PULL-UP PLATE
18	30	GPH2400814F	1 1/2" x 8 1/4" LG. HARD PLATE PIN
19	48	BF16HS	1" HARD STRUCTURAL WASHER
20	24	BN16C	1"- UNC STOVER LOCKNUT
21	24	B1680	1"NC x 8" HEX BOLT GR. 5
22	30	BL10	5/8" LOCKWASHER
23	30	B1010	5/8"NC x 1" HEX BOLT
* 24	2	BU1260	3/4" x 6 x 6 1/2" U-BOLT
* 25	36	BF12HS	3/4" HARD STRUCTURAL WASHER
* 26	42	BN12S	3/4" STOVER LOCK NUT
27	12	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
28	12	BSC0415	1/4" x 1 1/2" COTTER PIN
29	6	B1235	3/4 x 3 1/2" GR.5 HEX BOLT PLATED
30	60	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
31	12	GBB125100075	1 1/4" x 1" x 3/4" LG. HARD BUSHING
32	6	GBB100075075	1" x 3/4" x 3/4" LG. HARD BUSHING
33	24	GF1613	1/8" NPT GREASE FITTING 90deg
34	6	GF1610	1/8" NPT GREASE FITTING
* 35	5	B0830H	1/2" x 3" GRADE 8 HEX BOLT
* 36	1	CT503057	24" SMOOTH CONCAVE 1/4"
* 37	1	CT503057N	24" NOTCHED CONCAVE 1/4"
* 38	1	W00279	9800 COULTER BLADE RING
* 39	5	BN08S	1/2"-13NC STOVER LOCK NUT
40	2	W00408	9800 CENTER COULTER MOUNT STUB
41	2	W00415	9800 OUTSIDE COULTER MOUNT STUB
42	8	BU1246	U-BOLT 3/4" x 4" x 8" LG.
43	4	FL01055	5/8" x 6 1/2" x 8 1/2" - 3/4" U-BOLT PLATE
44	16	B1265	3/4"NC x 6 1/2" LG. HEX BOLT GR. 5

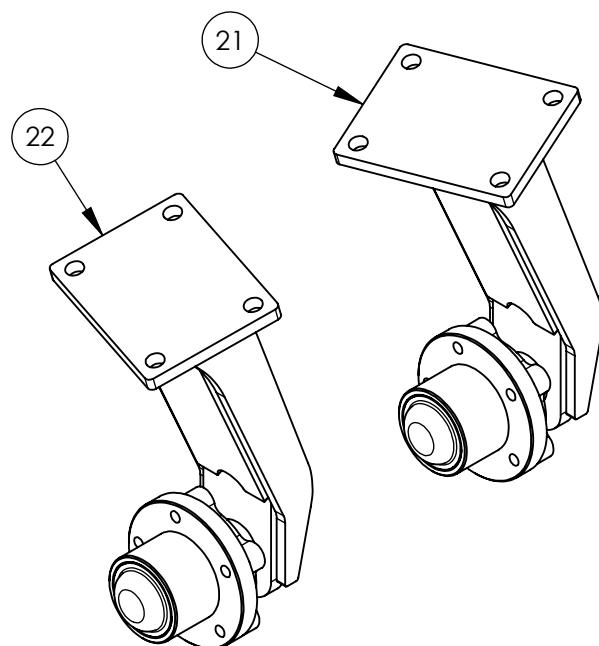
* - Quantities vary by machine size - see disc gang layout for quantities.

Coulter Mount Assembly

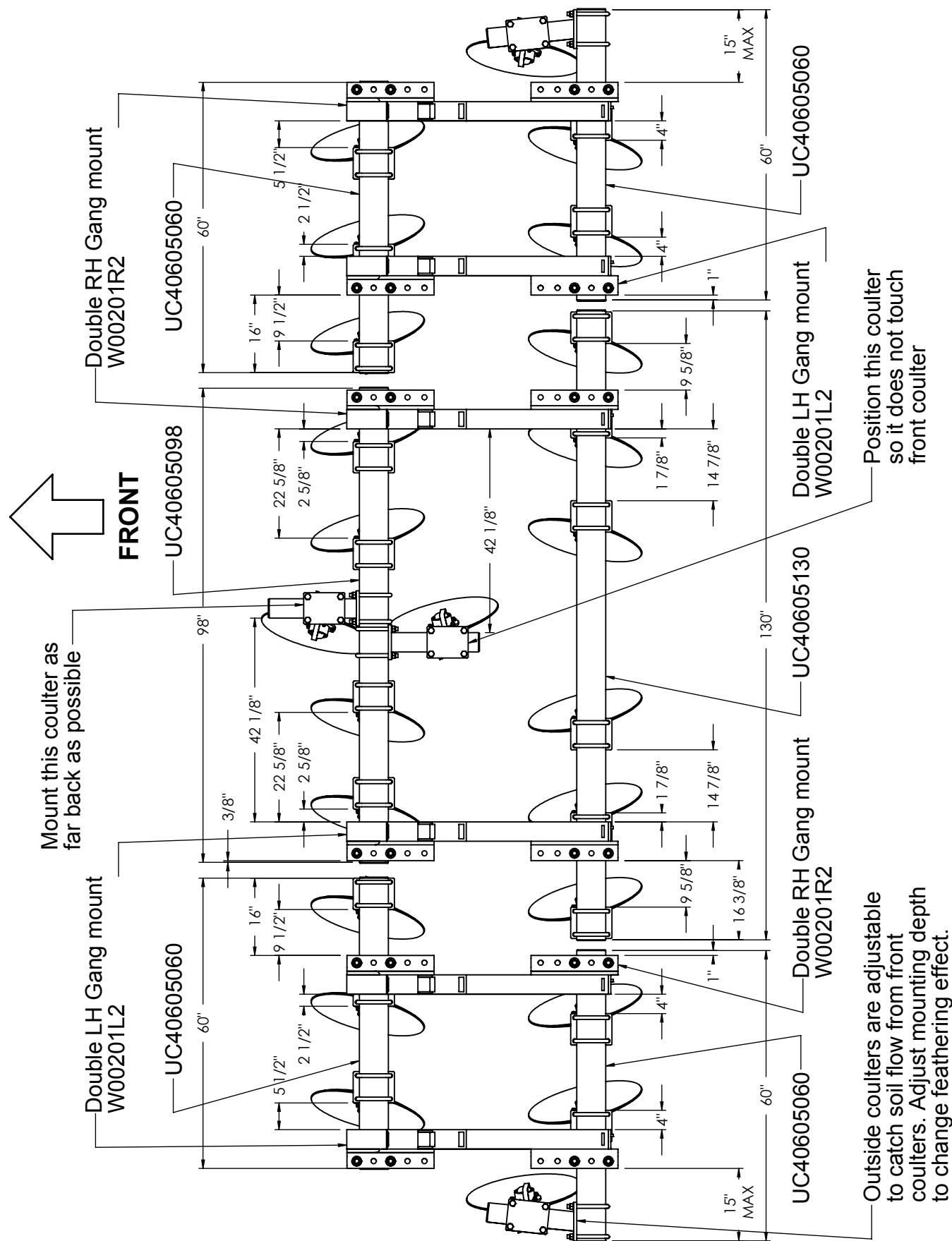


Coulter Mount Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	W00407L	9800 COMPOUND ANGLE COULTER MOUNT - LH
2	1	W00407R	9800 COMPOUND ANGLE COULTER MOUNT - RH
3	1	C9111VW	GRASS WRAP
4	1	C9111VS	V-SEAL
5	1	C9111VC	SEAL COUNTER FACE
6	1	GBS20148	20148 OIL SEAL
7	2	GB501349	8000 OUTER CONE
8	2	GB501310	8000 OUTER CUP
9	1	C90143	5 BOLT INDIVIDUAL MOUNT COULTER HUB
10	1	C90111	1" COIL-TECH SPINDLE WASHER
11	1	BN16SF	1" NF SLOTTED HEX NUT
12	1	BSC0317	3/16" x 1 3/4" COTTER PIN
13	1	C90102	DUST CAP-PRESS ON
14	1	B0830H	1/2" x 3" GRADE 8 HEX BOLT
15	1	BN08S	1/2"-13NC STOVER LOCK NUT
16	1	W00279	9800 COULTER BLADE RING
17	1	C90214	NEW 9800 COULTER HUB ASSEMBLY
18	1	C9014510	BEARING KIT FOR 9800 5 BOLT COULTER HUB
19	1	C9111V	V-SEAL KIT FOR 4 & 5 BOLT COULTER HUBS
20	1	C9111VA	V-SEAL & OIL SEAL KIT FOR 4 & 5 BOLT COULTER HUBS
21	1	W00407LA	9800 COULTER MOUNT ASSEMBLY - LH
22	1	W00407RA	9800 COULTER MOUNT ASSEMBLY - RH



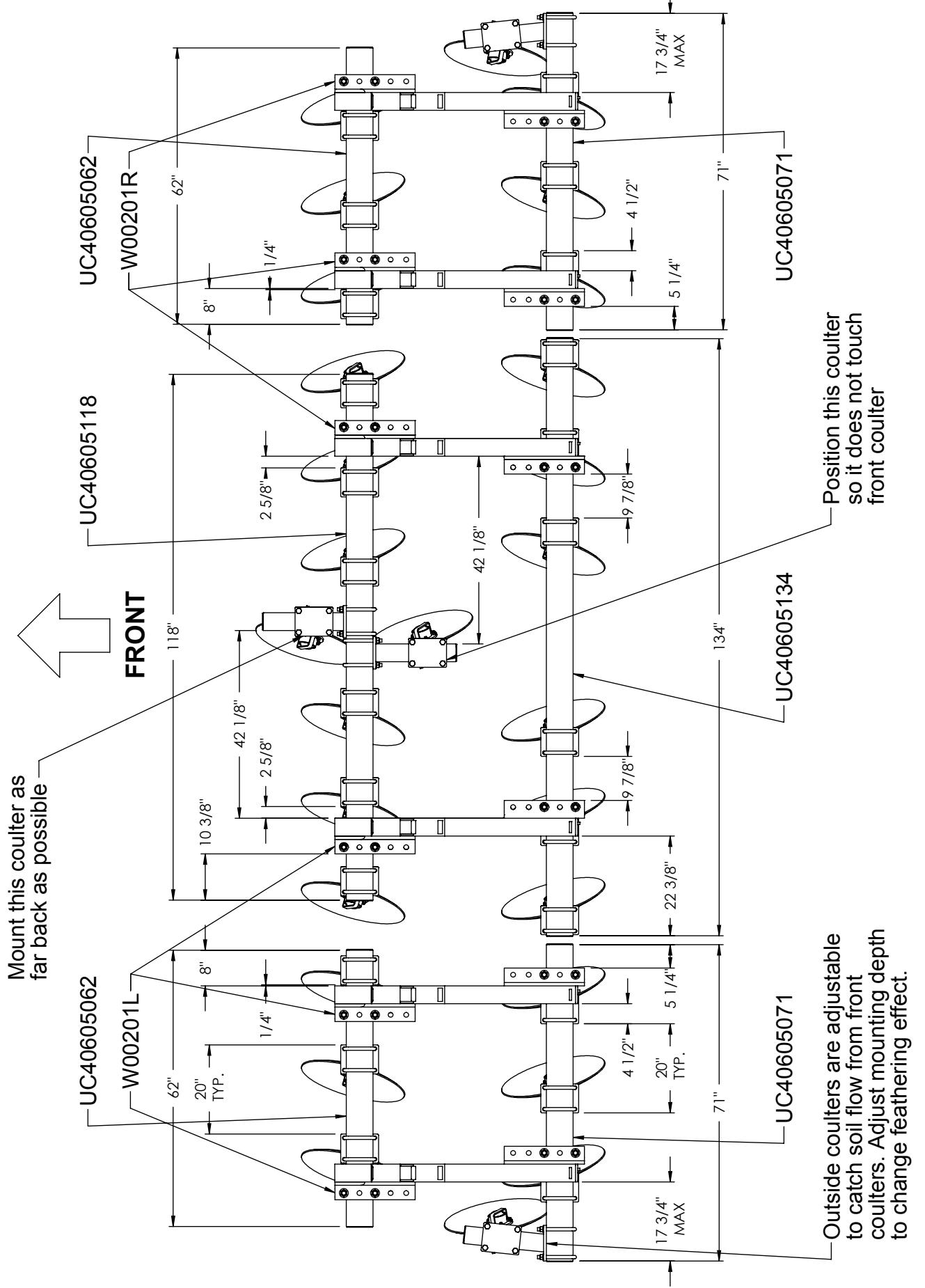
9811-20" Disc Gang Layout



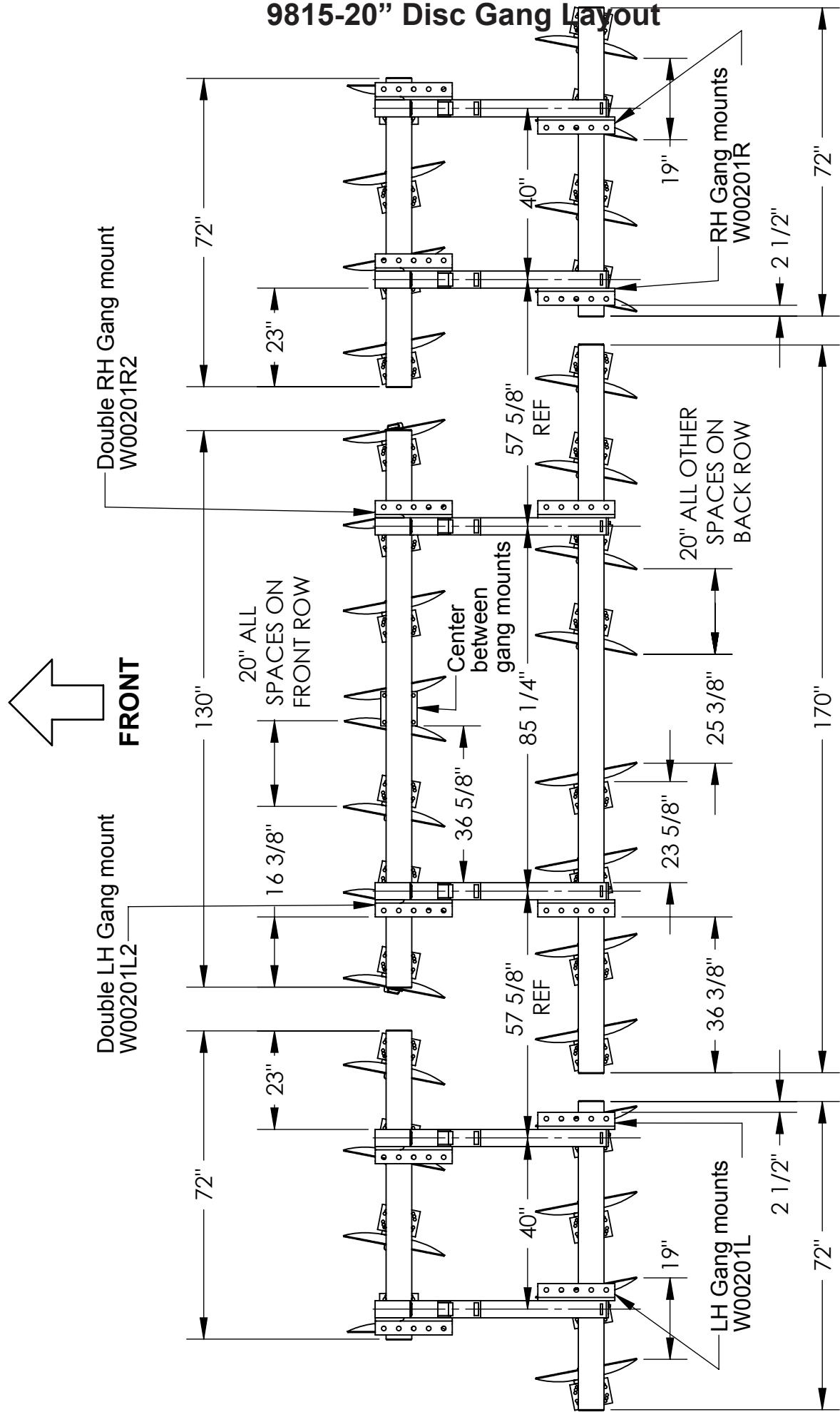
9811-20" FOLDING DISC GANG LAYOUT

24 BLADES ON 20" SPACING

9813-20" Disc Gang Layout

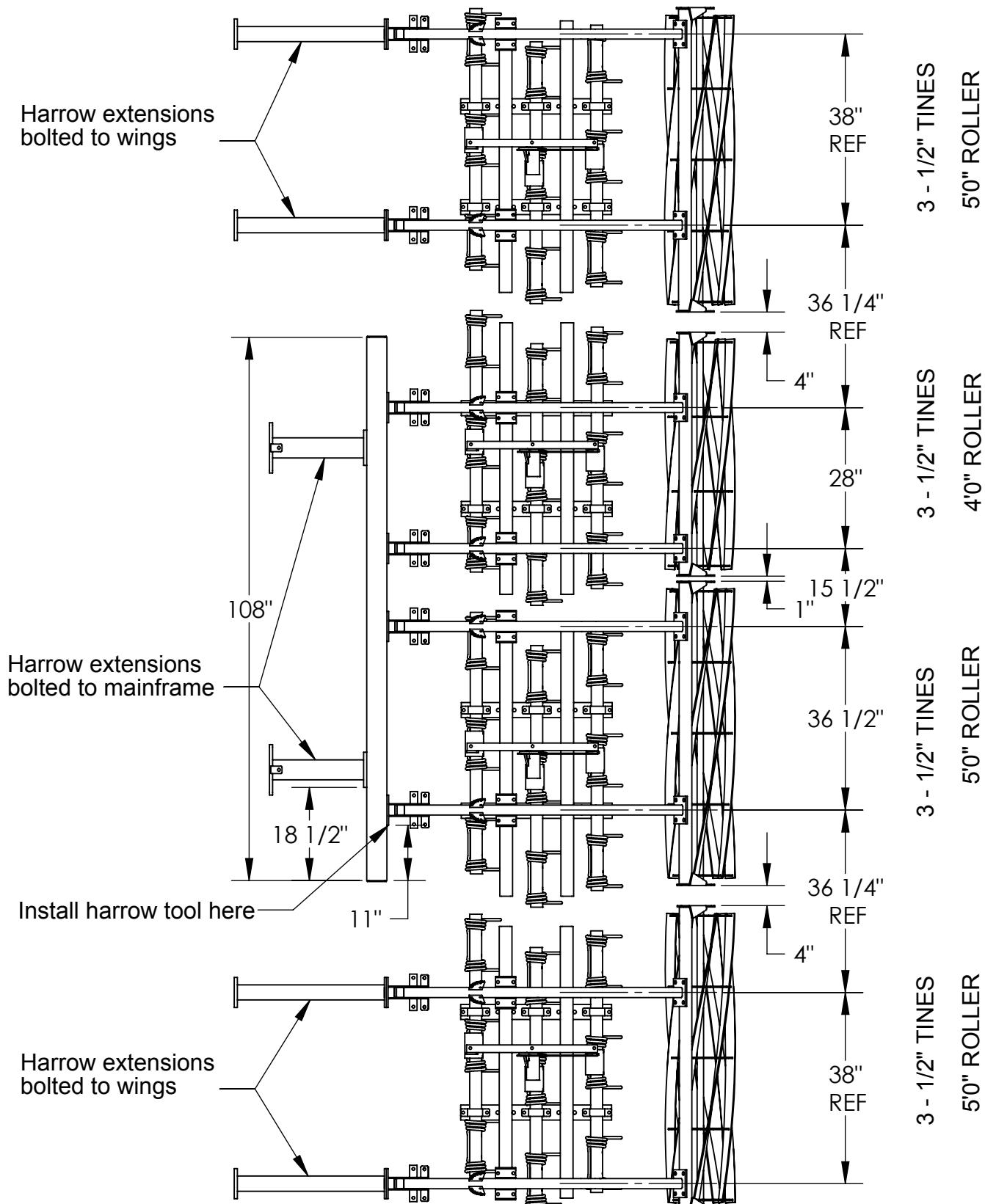


9813-20" FOLDING DISC GANG LAYOUT
28 Blades on 20" Spacing

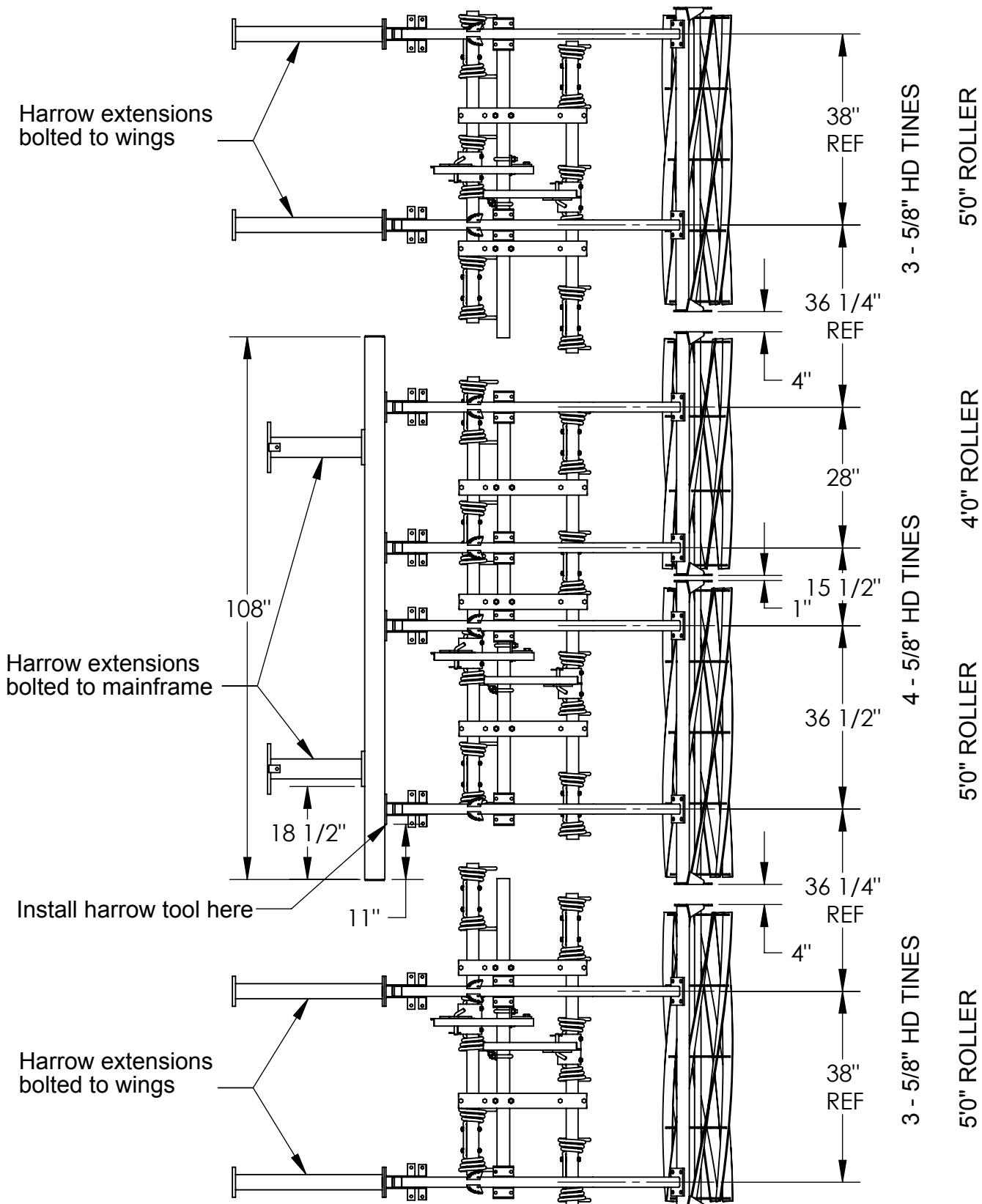
9815-20" Disc Gang Layout

9815-20" FOLDING DISC GANG LAYOUT
32 BLADES ON 20" SPACING

Harrow

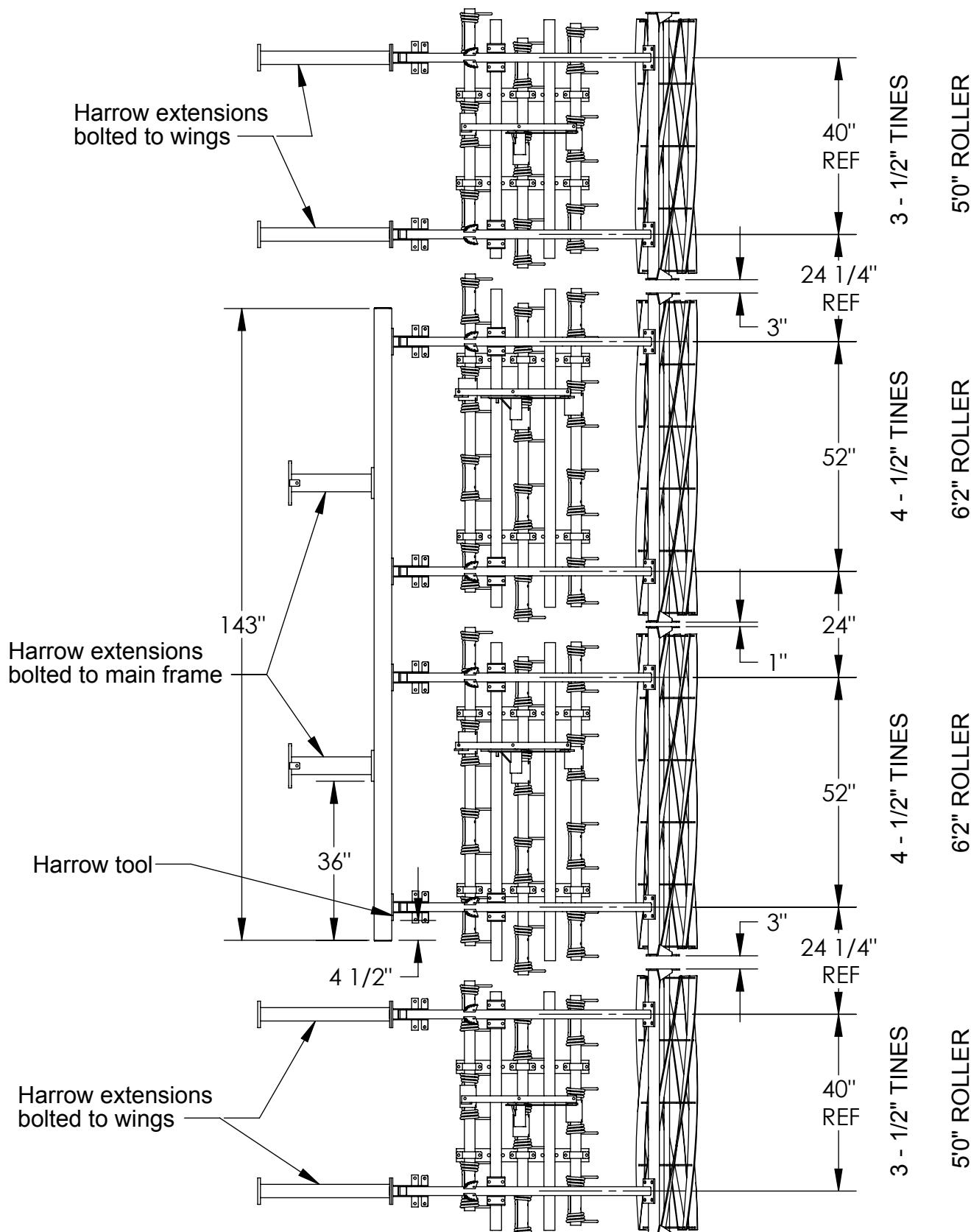
9811-20" Harrow Layout with 1/2" Tines**9811-20" FOLDING HARROW LAYOUT
WITH 1/2" TINES**

9811-20" Harrow Layout with 5/8" Tines

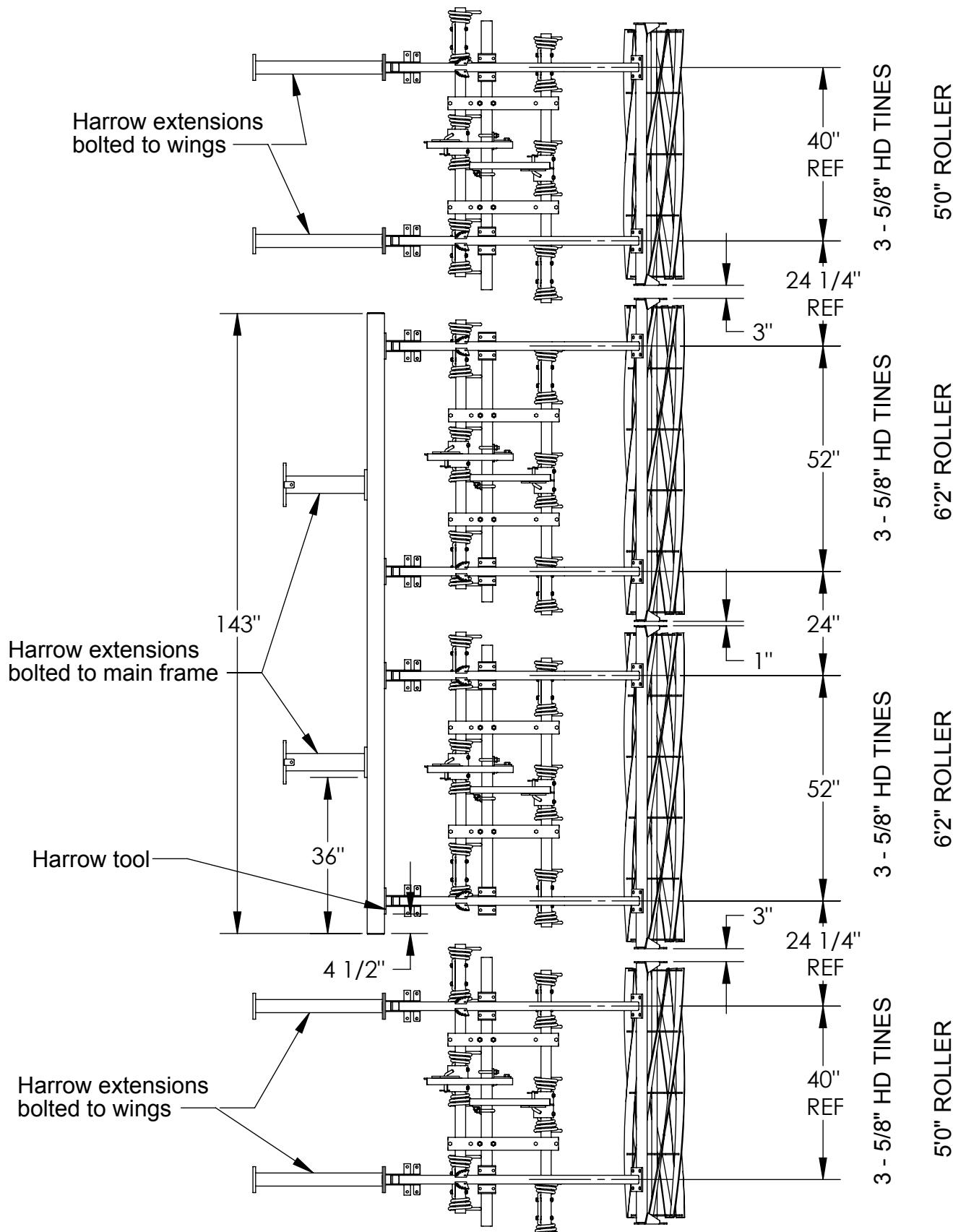


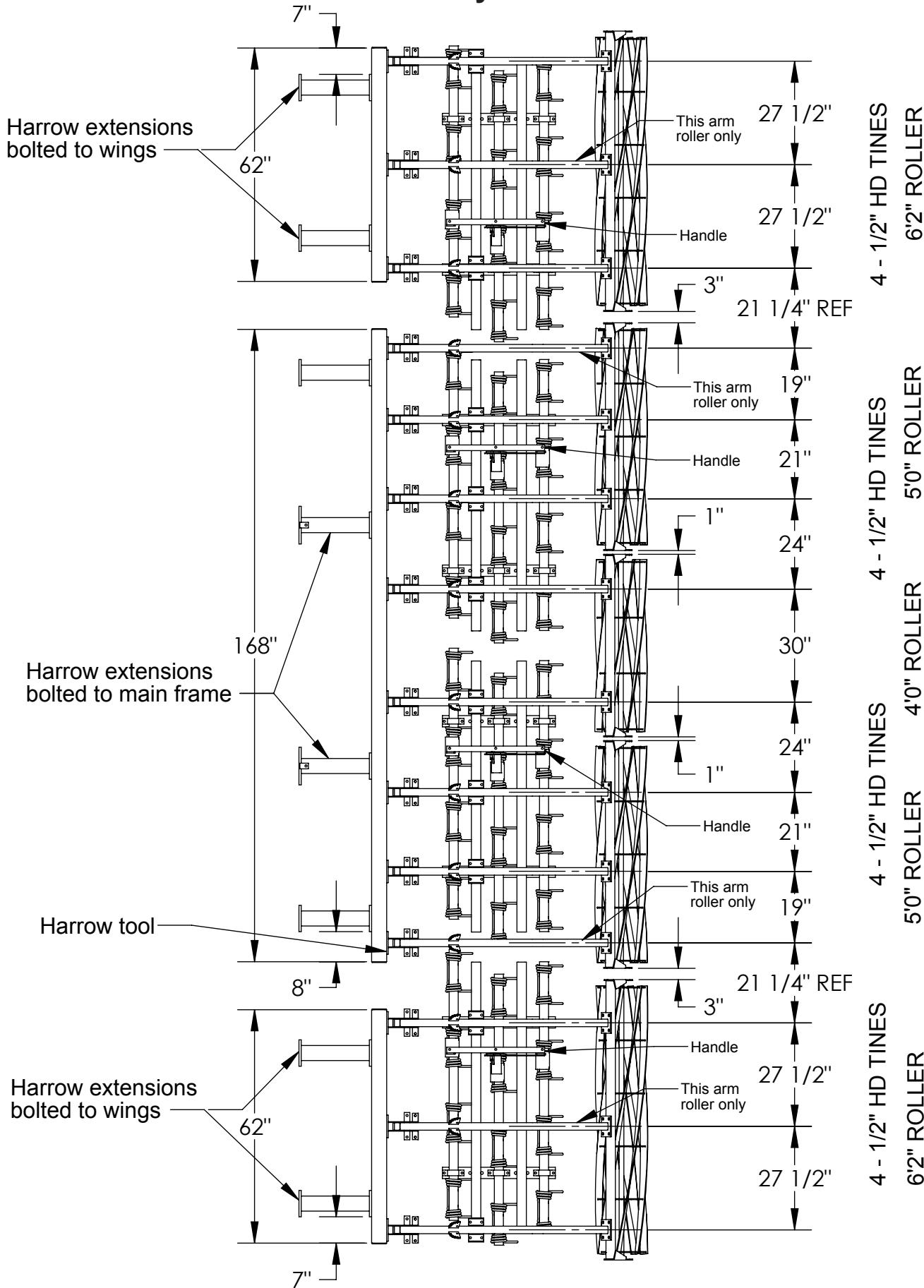
9811-20" FOLDING HARROW LAYOUT WITH 5/8" TINES

9813-20" Harrow Layout with 1/2" Tines

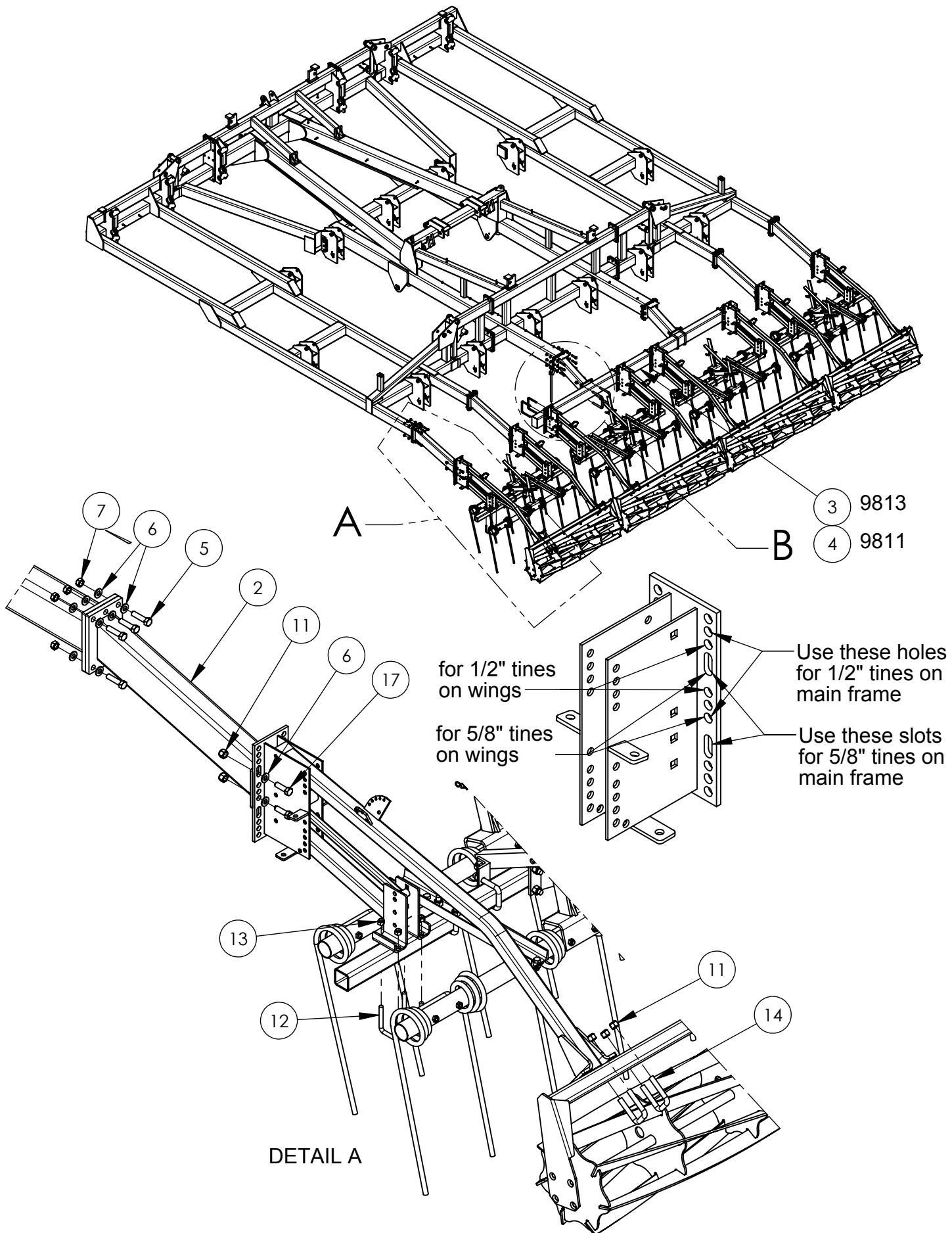


9813-20" FOLDING HARROW LAYOUT WITH 1/2" TINES

9813-20" Harrow Layout with 5/8" Tines**9813-20" FOLDING HARROW LAYOUT
WITH 5/8" TINES**

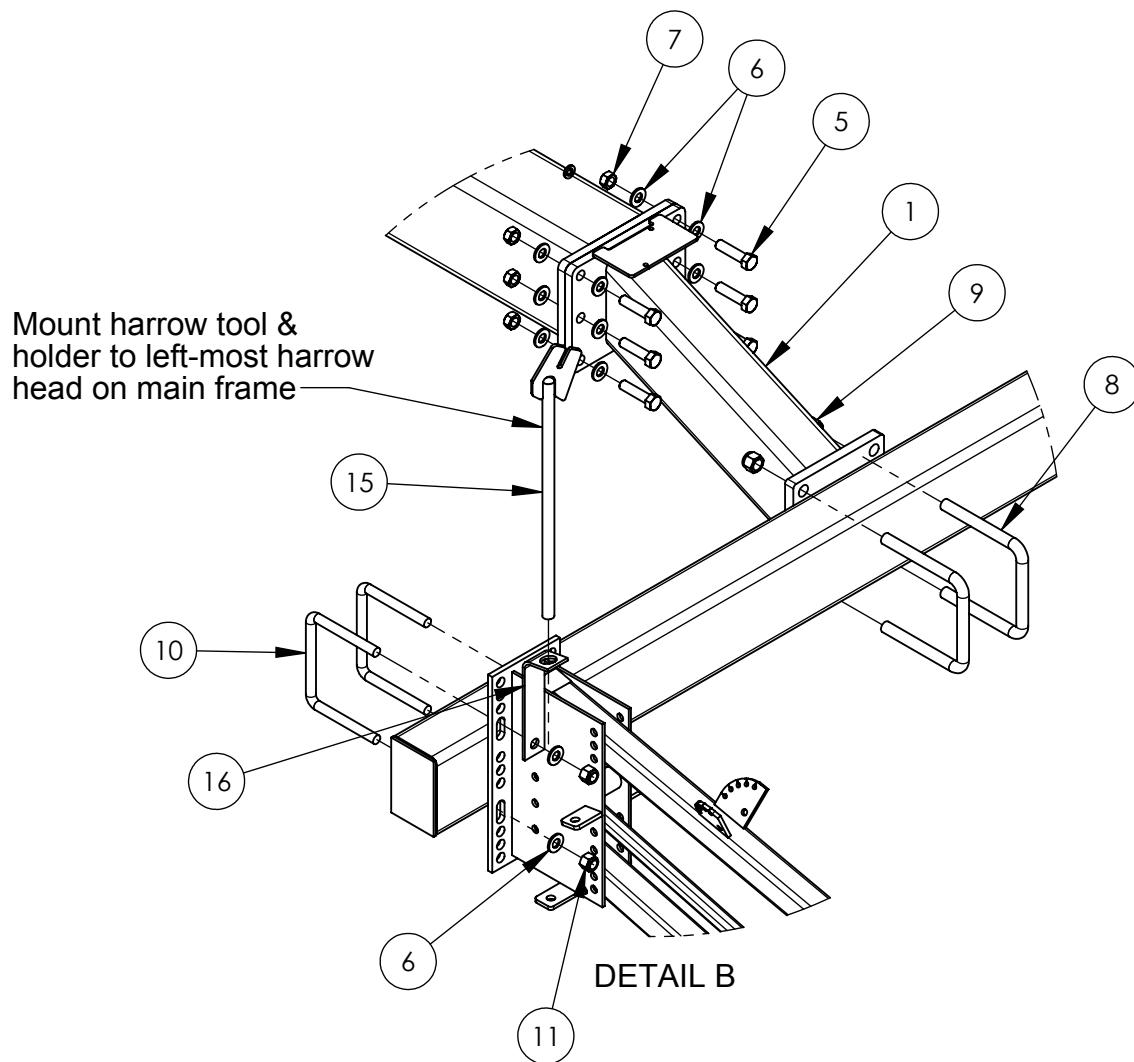
9815-20" Harrow Layout with 1/2" Tines**9815-20" FOLDING HARROW LAYOUT
WITH 1/2" TINES**

9811-9813 Harrow Installation



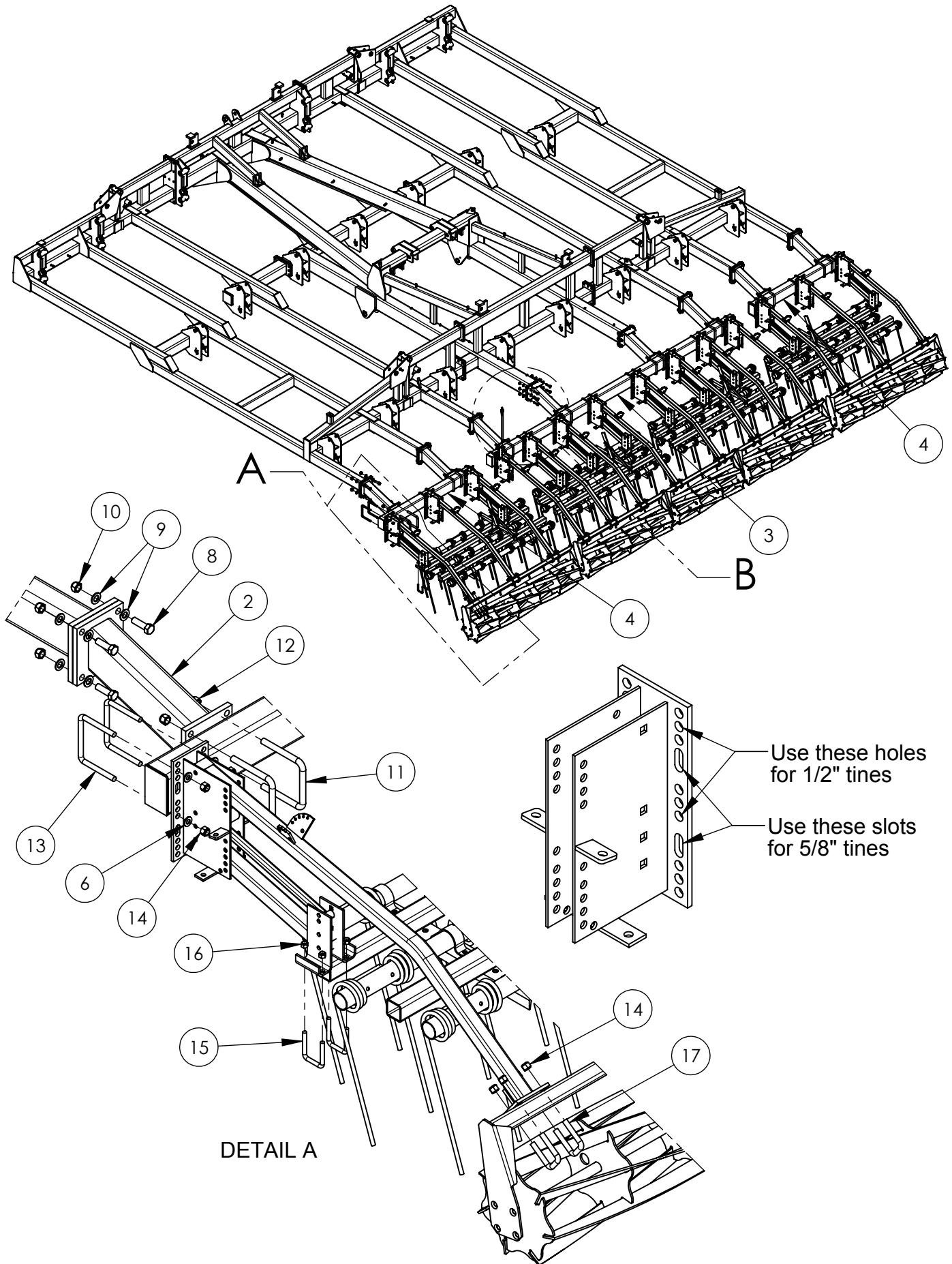
9811-9813 Harrow Installation

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	W00318	9800 600hp MAIN HARROW EXTENSION
2	4	W00319	9800 600hp WING FOLD HARROW EXTENSION
3	1	UC40604143	CAPPED TUBE 4" x 6" x 1/4"W x 143" LG.
4	1	UC40604108	CAPPED TUBE 4" x 6" x 1/4"W x 108" LG.
5	36	B1025	5/8 X 2 1/2" GR.5 PLATED BOLT
6	104	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
7	36	BN10S	5/8" NC STOVER LOCK NUT
8	4	BU1260	3/4" x 6 x 6 1/2" U-BOLT
9	8	BN12L	3/4" NC NYLOCK NUT
10	8	BU1061	U-BOLT 5/8" x 6 1/16" x 5 1/2"
11	64	BN10L	5/8" NYLOCK NUT NC
12	16	BU0825	1/2" x 2 1/2 x 3 1/2 U-BOLT
13	32	BN08L	1/2" NYLOCK NUT NC
14	16	BU1020	5/8" x 2 x 3 1/2" U-BOLT
15	1	RB0025	TOOL,HARROW TIGHTENER
16	1	RB0026	HOLDER,HARROW TOOL
17	16	B1020	5/8 X 2" BOLT GR. 5 PLATED



9815 Harrow Installation

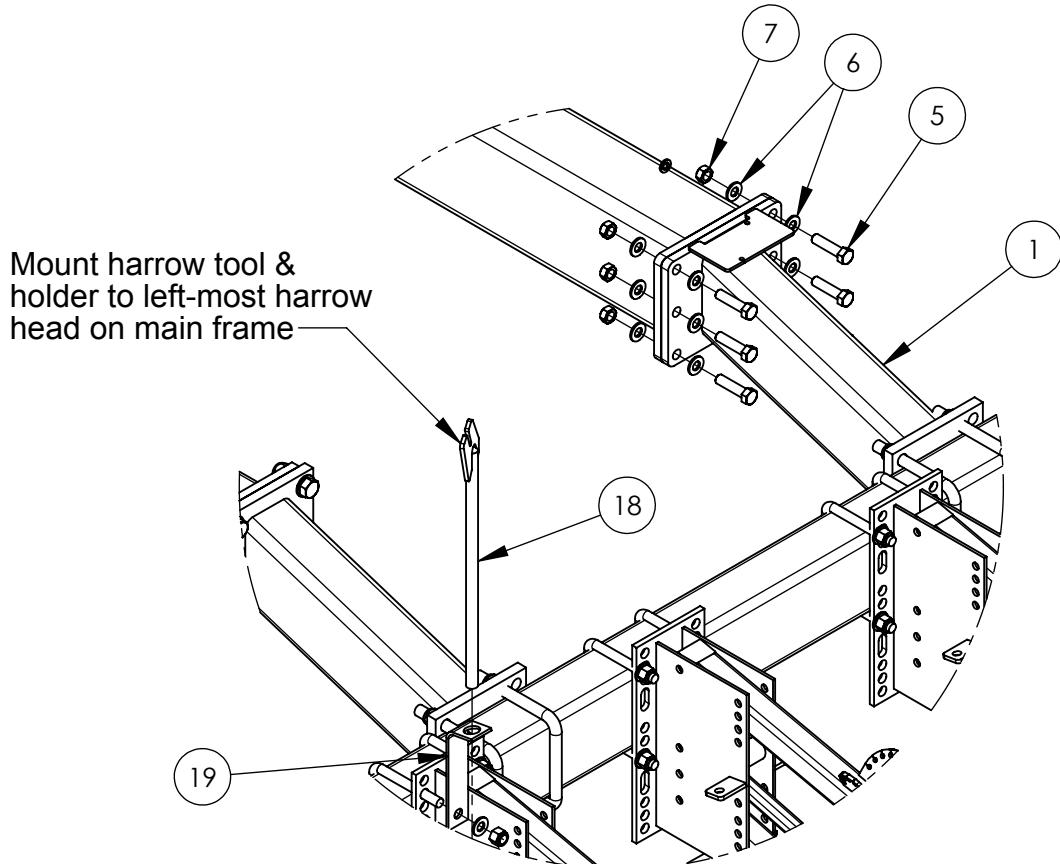
for 9815-20" (25' working width) only



9815 Harrow Installation

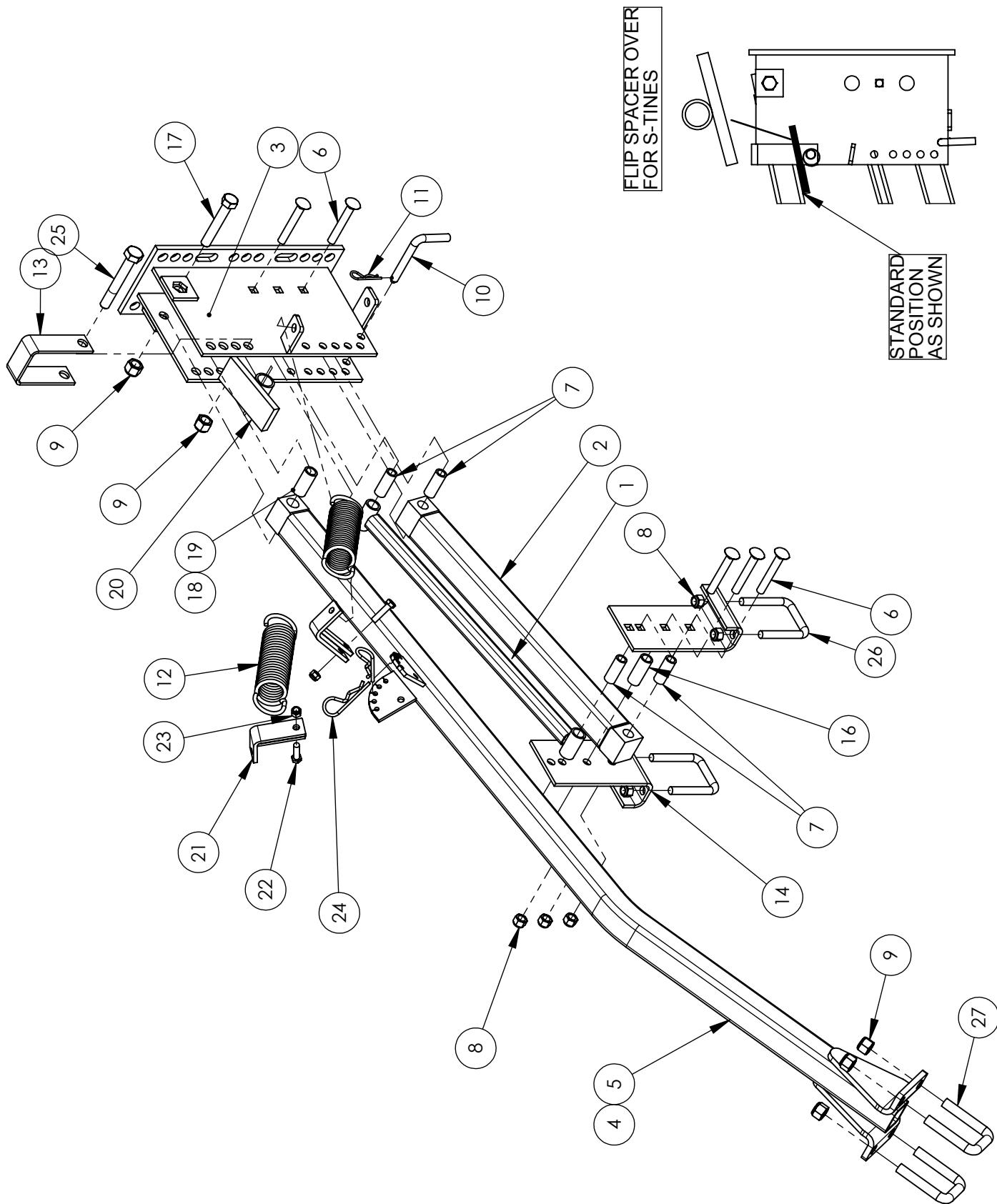
for 9815-20" (25' working width) only

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	W00318	9800 600hp MAIN HARROW EXTENSION
2	6	W00343	9800 600 hp WING HARROW EXTENSION
3	1	UC40604168	CAPPED TUBE 4" x 6" x 1/4"W x 168" LG.
4	2	UC40604062	CAPPED TUBE 4" x 6" x 1/4"W x 62" LG.
5	12	B1025	5/8 X 2 1/2" GR.5 PLATED BOLT
6	80	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
7	12	BN10S	5/8" NC STOVER LOCK NUT
8	24	B1225	3/4"NC x 2-1/2" HEX BOLT
9	48	BF12HS	3/4" HARD STRUCTURAL WASHER
10	24	BN12S	3/4" STOVER LOCK NUT
11	16	BU1260	3/4" x 6 x 6 1/2" U-BOLT
12	32	BN12L	3/4" NC NYLOCK NUT
13	28	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
14	112	BN10L	5/8" NYLOCK NUT NC
15	20	BU0825	1/2" x 2 1/2 x 3 1/2 U-BOLT
16	40	BN08L	1/2" NYLOCK NUT NC
17	28	BU1020	5/8" x 2 x 3 1/2" U-BOLT
18	1	RB0025	TOOL,HARROW TIGHTENER
19	1	RB0026	HOLDER,HARROW TOOL



DETAIL B

Harrow Arm Assembly



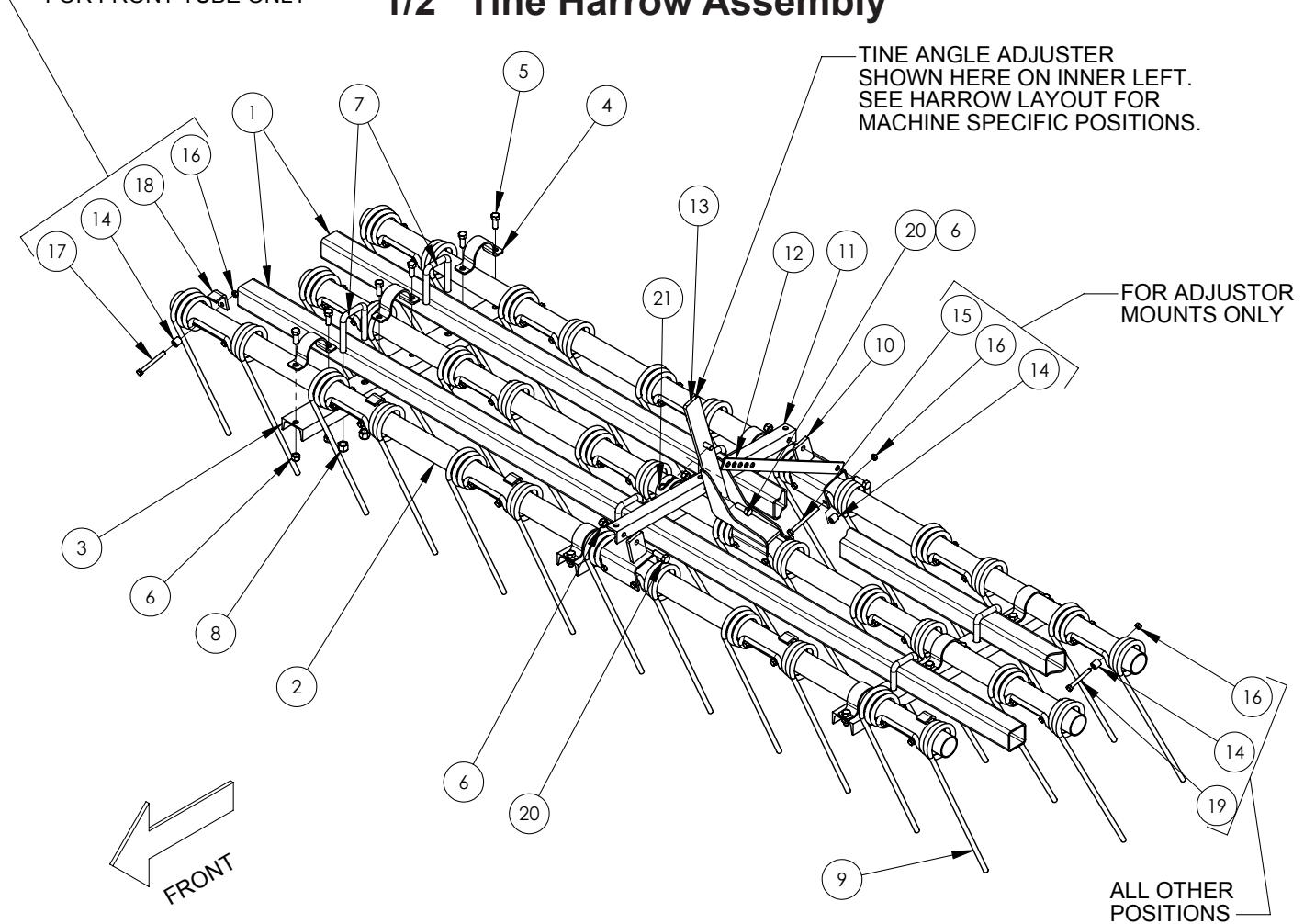
Harrow Arm Assembly

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
13	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

1/2" Tine Harrow Assembly



1/2" 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)

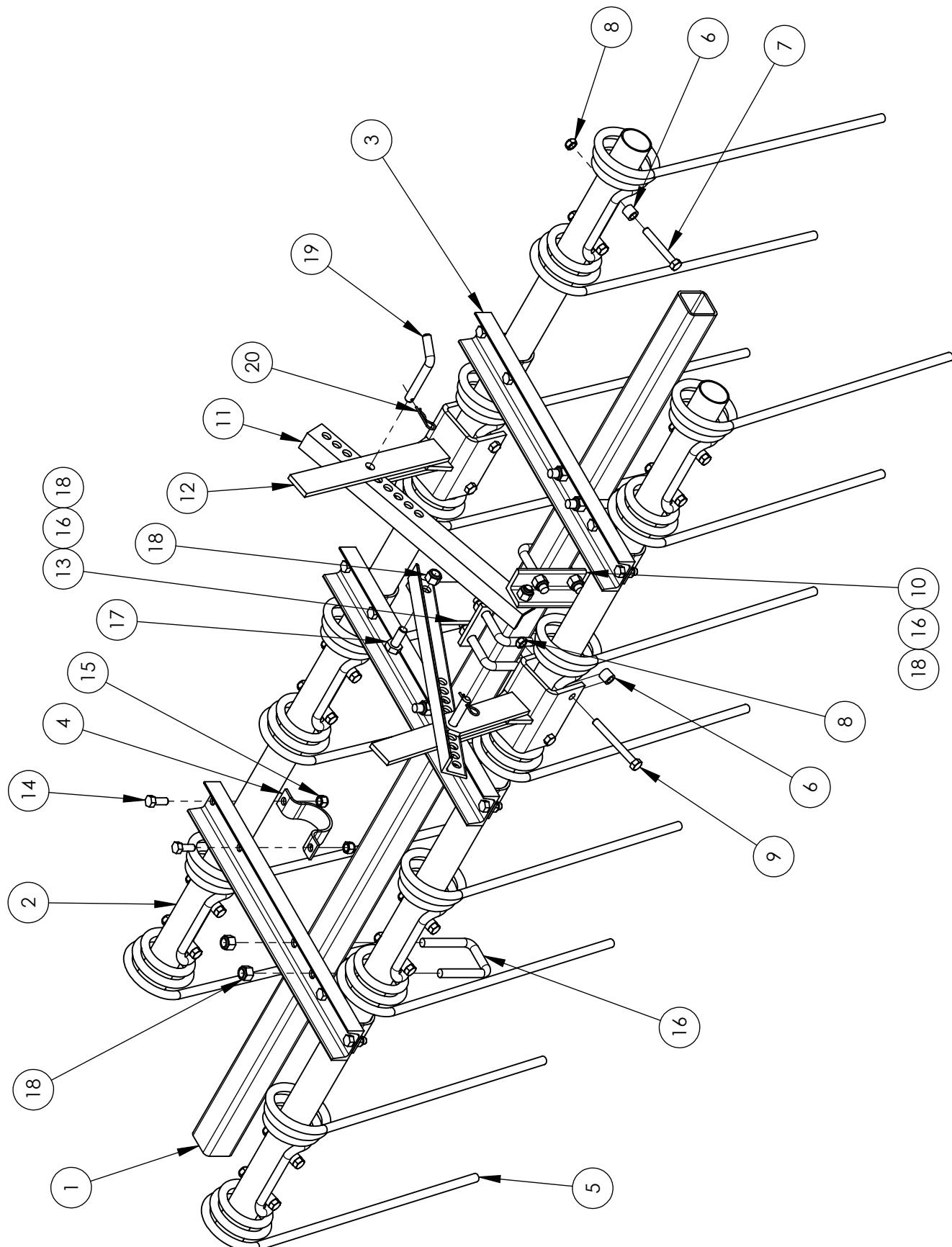
1/2" - 6 TINE HARROW ASSEMBLY PART NO. R636

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

5/8" Tine Harrow Assembly



5/8" Tine Harrow Assembly

ITEM NO.	PART NO.	DESCRIPTION
1	U252503062	TUBE 2 1/2 x 2 1/2 x 3/16"W x 62" LG.
2	R80029	TINE PIPE FOR 5/8" (3-TINE)

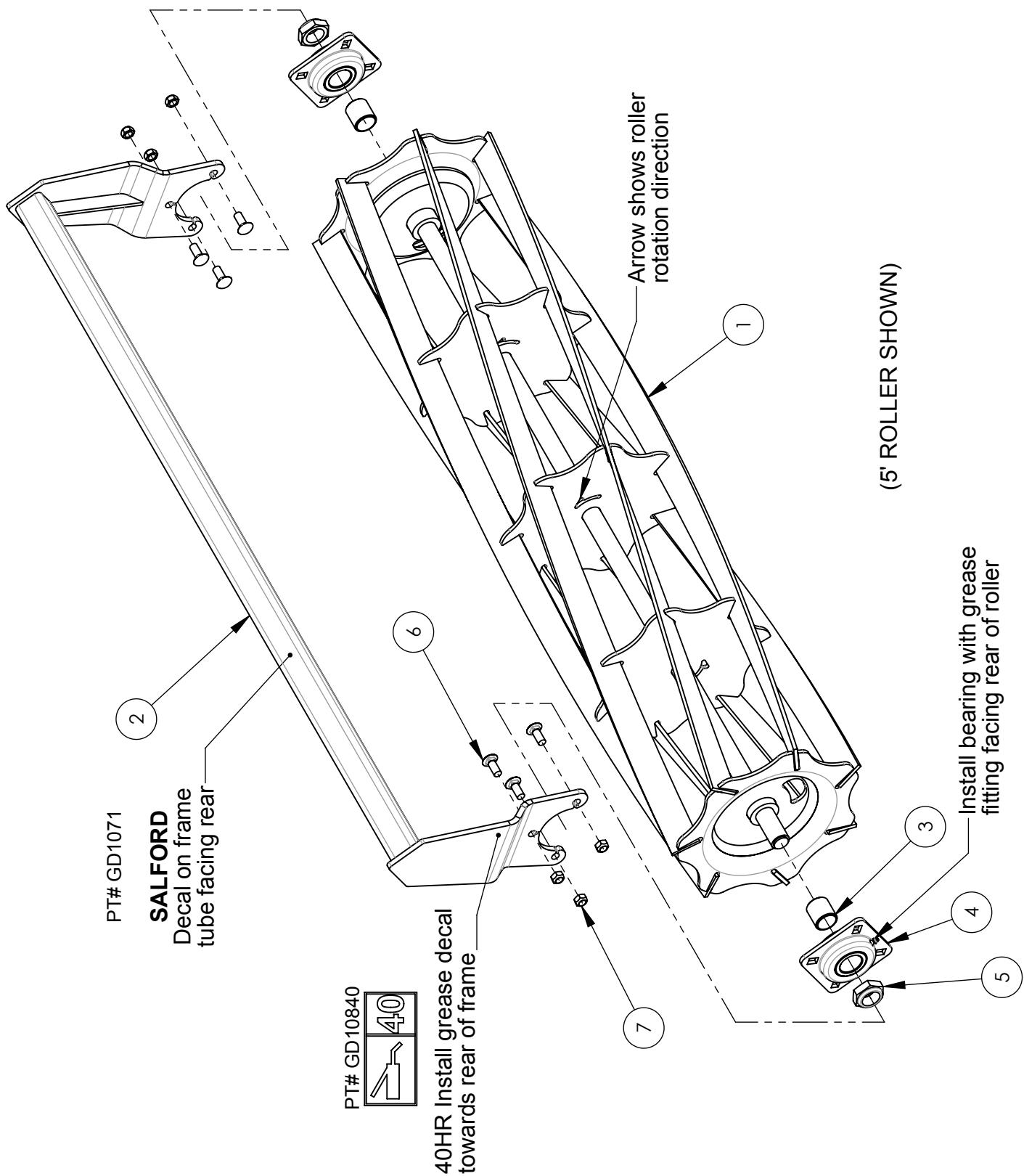
5/8" - 4 TINE HARROW ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION
1	U252503086	TUBE 2 1/2 x 2 1/2 x 3/16"W x 86" LG.
2	R80025	TINE PIPE FOR 5/8" (4-TINE)

COMMON PARTS

ITEM NO.	PART NO.	DESCRIPTION
3	R80104	HD 5/8" TINE HARROW CHANNEL
4	R30011	CLAMP BRACKET
5	GST1024	5/8" WIRE - 24" DBL LEG SPRING TINE
6	R80079	5/8" HARROW TINE SPACER
7	B0835	1/2 X 3 1/2" BOLT
8	BN08S	1/2"-13NC STOVER LOCK NUT
9	B0845	1/2"NC x 4 1/2" LG. HEX BOLT GR. 5
10	ES00027	REAR ROW ADJUSTER ANCHOR
11	ES00028	1 1/2" x 2" x 1/4" x 21" ADJUSTER BAR
12	R80102	HD TINE HARROW ADJUSTER
13	R80103	FRONT ROW ADJUSTER MOUNT
14	B0812	1/2" x 1 1/4" HEX BOLT
15	BN08L	1/2" NYLOCK NUT NC
16	BU1025	U-BOLT 5/8" x 2 1/2" x 4"
17	B1015	5/8"NC x 1 1/2" HEX BOLT
18	BN10L	5/8" NYLOCK NUT NC
19	GP10004L03	L-PIN 5/8" DIA. x 4" LG.
20	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

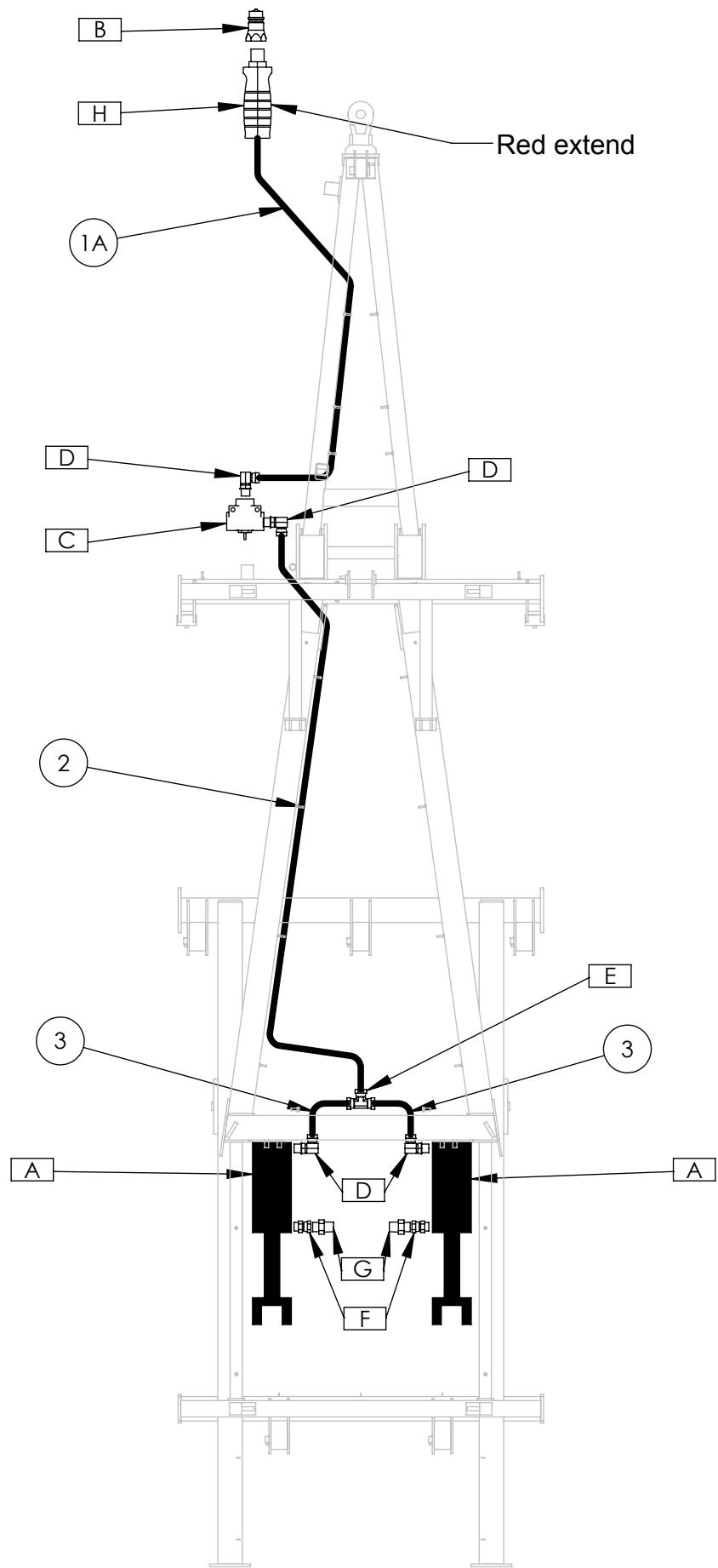
14" ROLLER HARROW ASSEMBLY - 6' 2" (187.9) LONG

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

Hydraulics and Lights

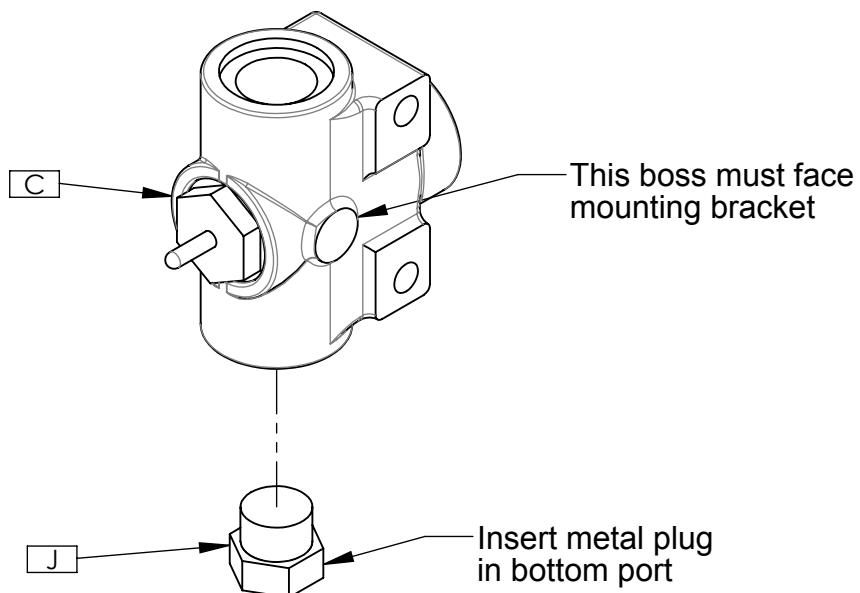
Axe Lift Hydraulics



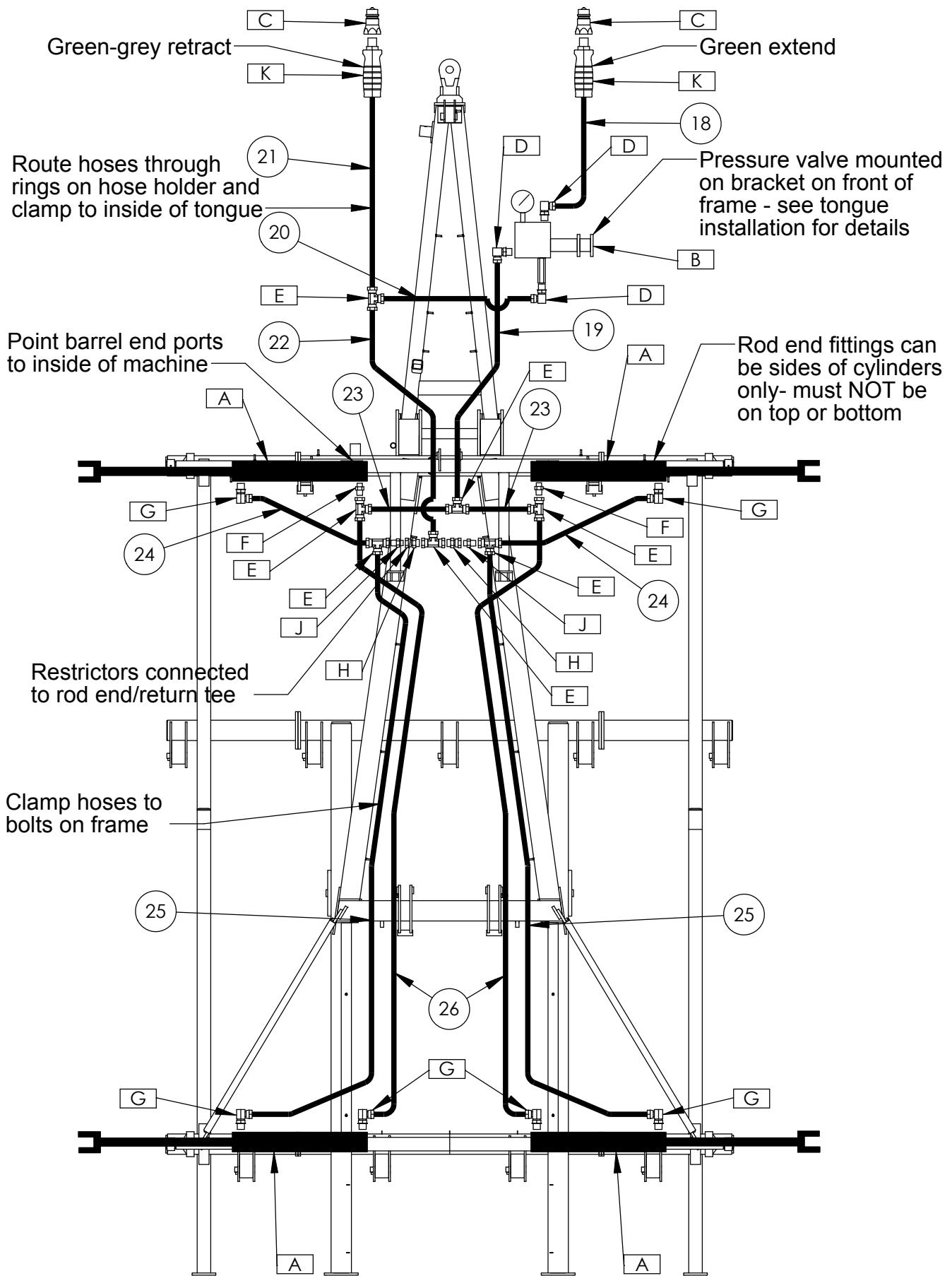
Axle Lift Hydraulics

HARDWARE			
ITEM	QTY.	PART NO.	DESCRIPTION
A	2	HS5012BBJ	5" HD HYD. CYLINDER W/ BALL JOINT ENDS - 12" STROKE
B	1	H80104P	1/2" NPT MALE PIONEER COUPLER
C	1	HPMSC10	STROKE CONTROL VALVE
D	4	H951588	-08 ORB TO -08 NPT SWIVEL ELBOW
E	1	H958888	-08 NPT SWIVEL TEE
F	2	H930586	-08 ORB TO -06F NPT SWIVEL
G	2	H914086	MBV-3 BREather FILTER
H	1	HG-PT22E22R21R	PAIR OF RED EXTEND/RED-GREY RETRACT HOSE GRIPS
J	1	H89008	-08 ORB METAL PLUG

HOSES				
LABEL	QTY.	LENGTH (in)	FROM	TO
1A	1	17'2"	TRACTOR	STROKE CONTROL VALVE
2	1	15'	STROKE CONTROL VALVE	TEE
3	2	1' 8"	TEE	BARREL OF HS4512H



Wing Fold Hydraulics



Wing Fold Hydraulics

ITEM	QTY.	PART NO.	DESCRIPTION
A	4	HS4024H	HD 4" BORE x 24" STROKE HYD. CYLINDER
B	1	HV1171	PRESSURE REDUCING VALVE
C	2	H80104P	1/2" NPT MALE PIONEER COUPLER
D	3	H951566	-06 ORB TO -06 NPT SWIVEL ELBOW
E	7	H956666	-06 NPT SWIVEL TEE
F	2	H915086	NIPPLE -08 ORB TO -06M NPT
G	6	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW
H	2	H1404668	-06 RESTRICTOR 0.080"
J	2	H910066	-06 TO -06 NPT MALE UNION
K	1	HG-PT24E24R21R	PAIR OF GREEN EXTEND/GREEN-GREY RETRACT PLASTIC HOSE GRIPS

LABEL	QTY.	LENGTH (in)			FROM	TO
		9811(18')	9813(22')	9815(25')		
18	1	16'2"	16'2"	16'2"	TRACTOR	PRESSURE VALVE
19	1	3'	3'	3'	PRESSURE VALVE	TEE
20	1	2'6"	2'6"	2'6"	BYPASS TEE	CHECK VALVE ON PRESSURE VALVE
21	1	13'	13'	13'	TRACTOR	BYPASS TEE
22	1	5'1"	5'1"	5'1"	BYPASS TEE	ROD TEE
23	2	3'2"	2'4"	3'2"	TEE	BARREL-TEE
24	2	4'6"	4'6"	4'6"	ROD TEE	FRONT CYL. ROD ENDS
25	2	18'4"	18'4"	22'	ROD TEE	REAR CYL. ROD ENDS
26	2	19'4"	19'4"	19'	BARREL TEE	REAR CYL. BARREL ENDS

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.



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.

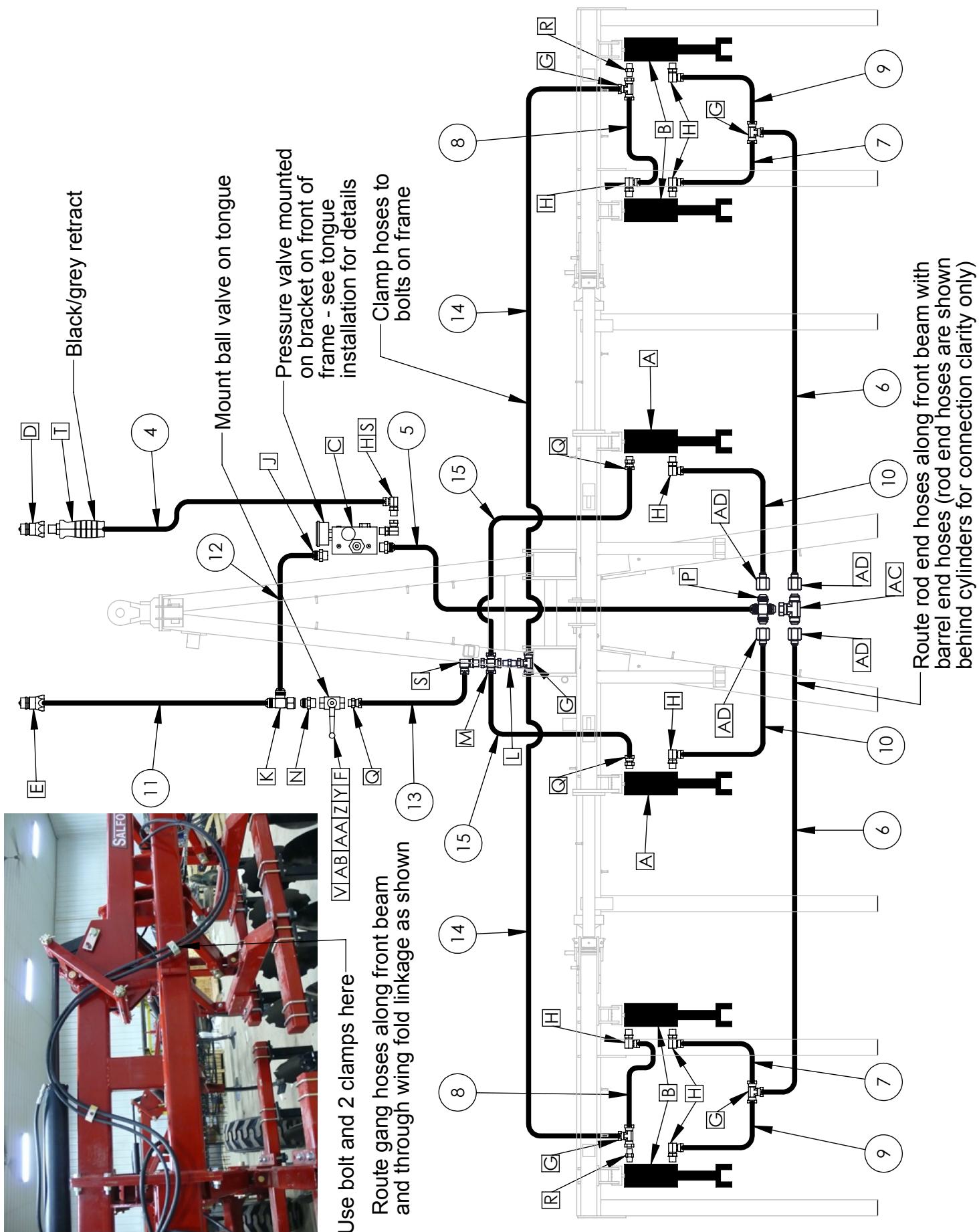


DANGER

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!!

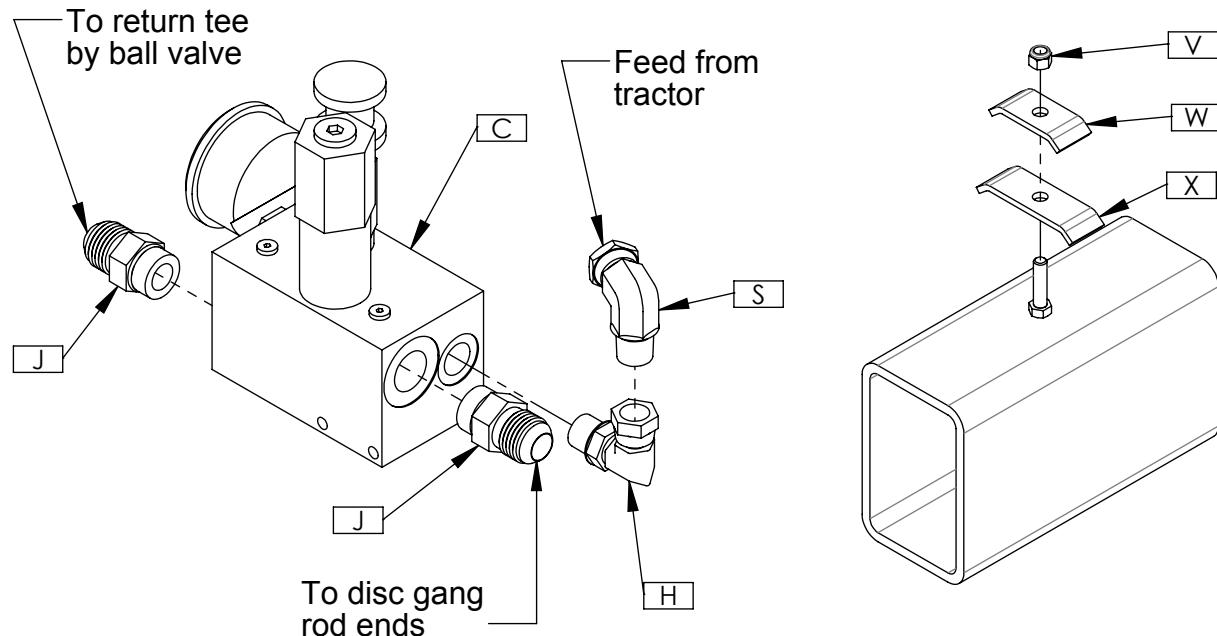
Disc Gang Hydraulics



Disc Gang Hydraulics

HARDWARE			
ITEM	QTY.	PART NO.	DESCRIPTION
A	2	HS3508DC	3 1/2" x 8" CYL. WITH DEPTH CONTROL
B	4	HS3008DC	3" x 8" CYL. WITH DEPTH CONTROL
C	1	HV8263	PRESSURE REDUCING VALVE W/ HI-FLOW RELIEF
D	1	H80104P	1/2" NPT MALE PIONEER COUPLER
E	1	H8010-5	3/4" NPT MALE PIONEER COUPLER
F	1	HV1136	1/2" NPT BALL VALVE, 2-WAY
G	5	H958888	1/2" NPT SWIVEL TEE
H	9	H951588	-08 ORB - 1/2" NPT SWIVEL ELBOW
J	2	H6400-12-12	-12 JIC MALE TO -12 ORB MALE STRAIGHT CONNECTOR
K	1	H6602-12-12-12	-12M JIC -12F JIC -12M JIC TEE
L	1	H910088	1/2" NPT M CONNECTOR
M	1	HT08SC	1/2" NPT ALL SWIVEL CROSS
N	1	H6400-12-8	-12 JIC MALE TO -08 ORB MALE STRAIGHT CONNECTOR
P	1	H2650-12-12-12-12	-12 JIC ALL MALE CROSS
Q	3	H930588	-08 ORB TO -08 NPT STRAIGHT SWIVEL
R	2	H915088	-08 ORB TO -08M NPT STRAIGHT
S	2	H940588	1/2" M TO 1/2" F ELBOW
T	1	HG-PT23E23R21R	PAIR OF BLACK-EXTEND / BLACK GREY-RETRACT PLASTIC HOSE GRIPS
U	2	B0620	3/8"NC x 2" HEX BOLT GR. 5
V	31	BN06L	3/8"NC NYLOCK NUT
W	21	P0160A	HOSE CLAMP - 3"
X	8	P0160B	HOSE CLAMP - 4"
Y	1	L01411	BALL VALVE MOUNTING PLATE
Z	1	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
AA	2	BN10L	5/8" NYLOCK NUT NC
AB	2	BUR061222	U-CLAMP ROUND 3/8 X 1 1/4 X 2 1/4 (42014)
AC	1	H6600-12-12-12	-12MJ -12MJ -12FJ TEE
AD	4	H2406-12-08	-08JIC MALE -12JIC FEMALE CONNECTOR

HOSE LIST ON FOLLOWING PAGE



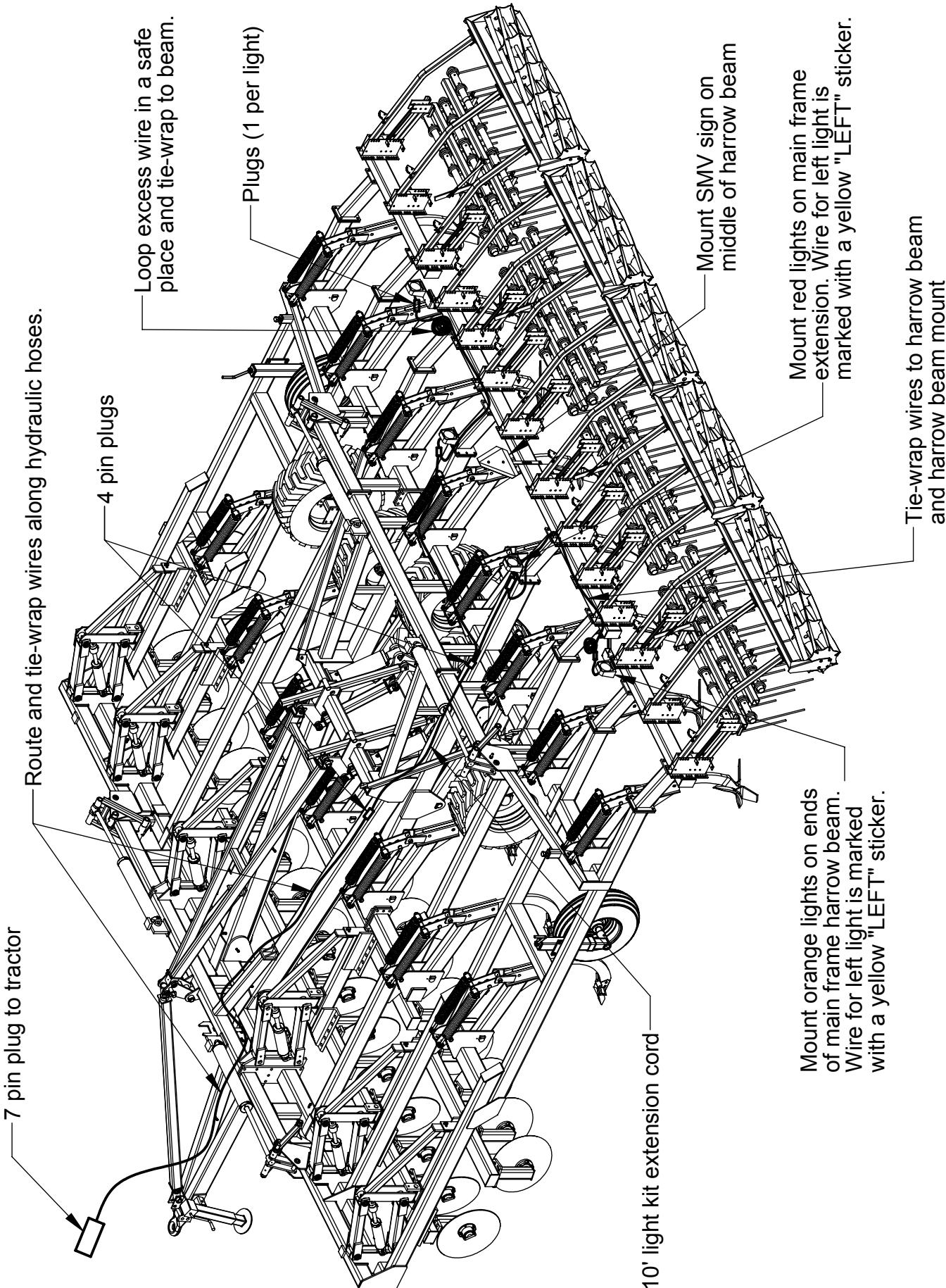
Disc Gang Hydraulics

HOSES						
LABEL	QTY	LENGTH (in)			FROM	TO
		9811(18')	9813(22')	9815(25')		
4	1	16'2"			TRACTOR	PRESSURE VALVE
5	1	4'			PRESSURE VALVE	ROD CROSS/TEE
6	2	12'8"	13'3"	TBA	ROD CROSS/TEE	WING ROD TEE
7	2	1'6"	3'2"	TBA	WING ROD TEE	WING INNER ROD ENDS
8	2	1'10"	3'6"	TBA	WING BARREL TEE	WING INNER BARREL ENDS
9	2	2'	3'	TBA	WING ROD TEE	WING OUTER ROD ENDS
10	2	4' 9"			ROD CROSS/TEE	MAIN ROD ENDS
11	1	12'2"			TRACTOR	TEE ON BALL VALVE
12	1	4'			TEE ON BALL VALVE	CHECK VALVE ON PRESSURE VALVE
13	1	5'10"			BALL VALVE	BARREL CROSS/TEE
14	2	12'10"	14'7"	TBA	BARREL CROSS/TEE	WING BARREL TEE
15	2	3'4"			BARREL CROSS/TEE	MAIN BARREL ENDS

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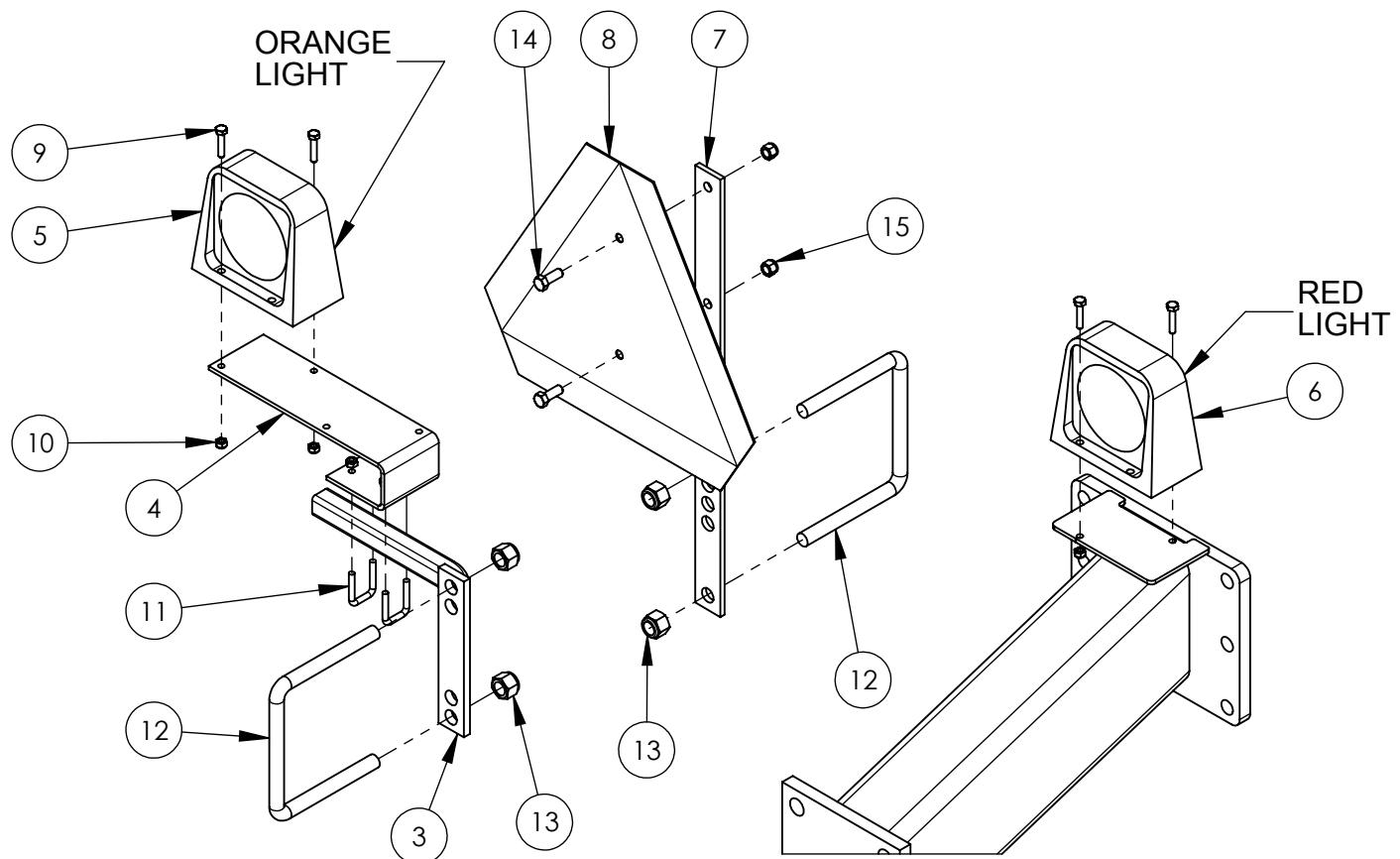
Lights and SMV Install

9800 600hp LIGHT KIT INSTALLATION

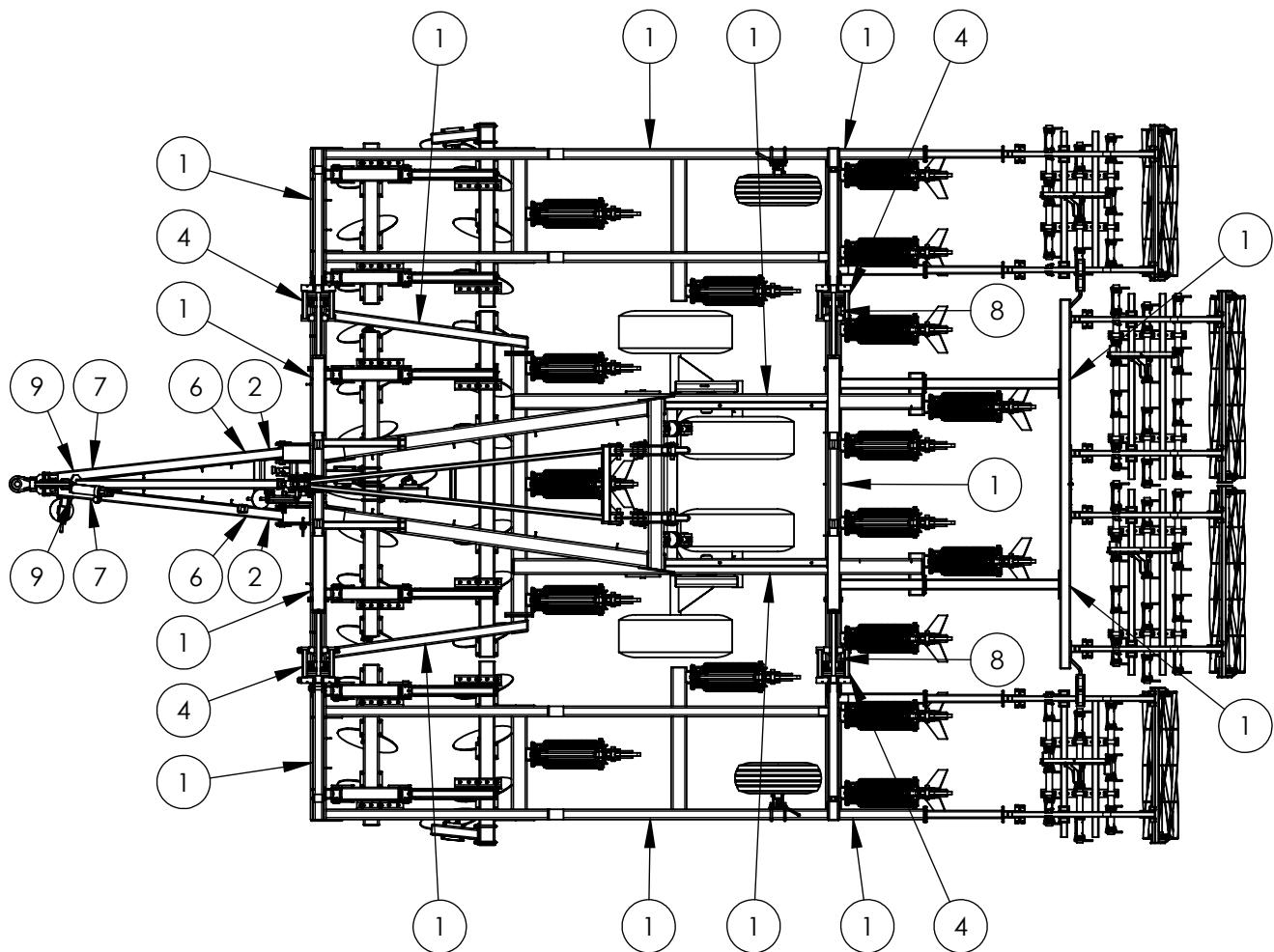
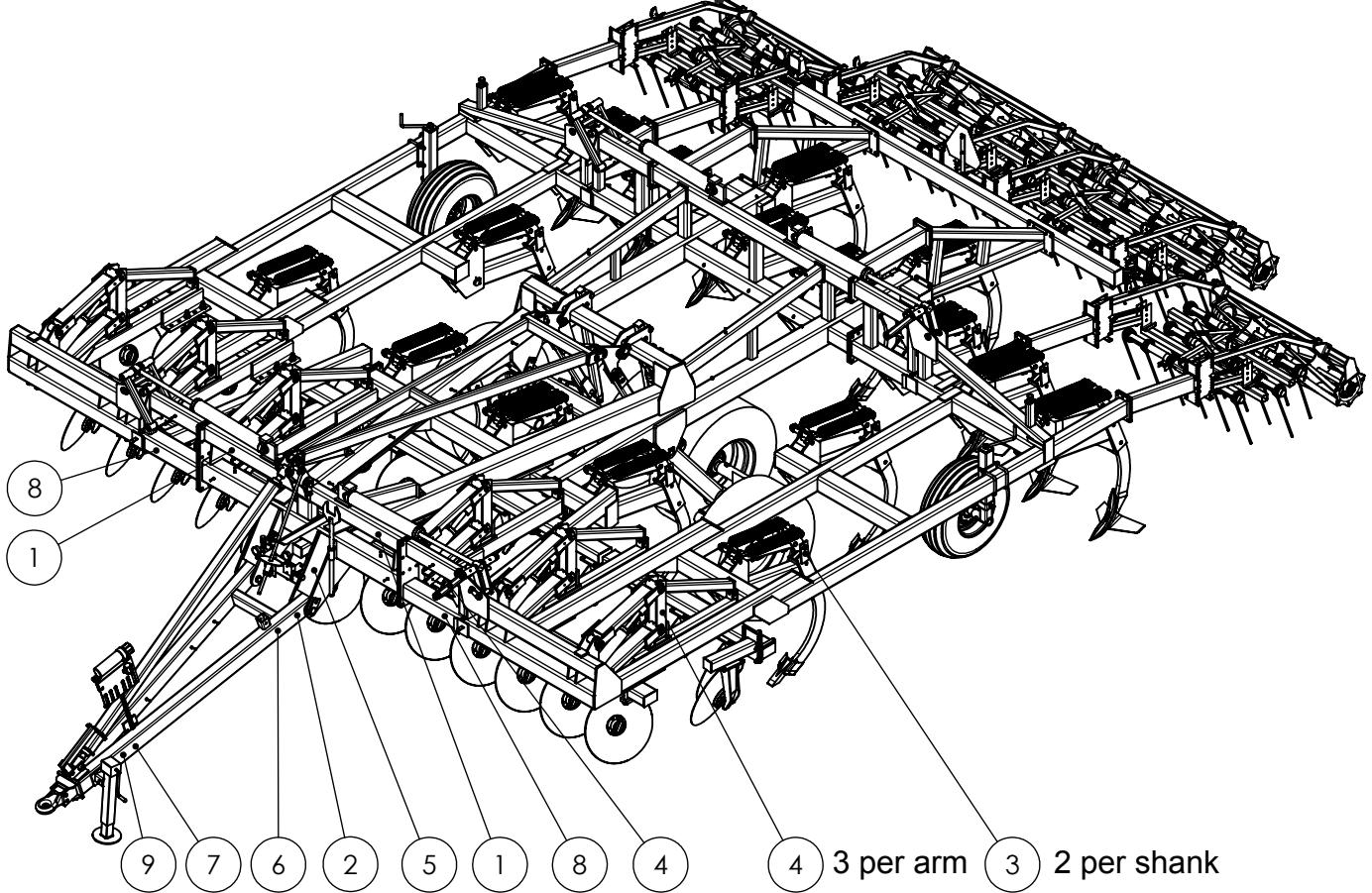


9800 600hp LIGHT KIT INSTALLATION

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GL767762	SALFORD WESBAR LIGHT KIT
2	1	GLX8343	LIGHT KIT 10' EXTENSION CORD
3	2	A60055	LIGHT BRACKET (SHORT)
4	2	L00425	OUTSIDE LIGHT MOUNTING PLATE
5	2	GL767762-AA	ORANGE LIGHT
6	2	GL767762-R	RED LIGHT
7	1	C1011	SMV MOUNTING BRACKET
8	1	GAP103NS	SMV SIGN
9	8	B0412	1/4"NC x 1 1/4" HEX BOLT
10	16	BN04L	1/4" LOCK NUT
11	4	BU0410	1/4 x 1 1/2" U-BOLT
12	3	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
13	6	BN10L	5/8" NYLOCK NUT NC
14	2	B0610	3/8 X 1" PLATED BOLT GR.5
15	2	BN06L	3/8"-16NC LOCK NUT



Decal Layout



Decal Layout

ITEM	PART NO.	QTY.	DESCRIPTION
1	GD100	15	4" x 16" SALFORD WITH BLACK BORDER
2	GD102	2	WWW.SALFORDMACHINE.COM
3	GD10810	*	GREASE EVERY 10 HOURS
4	GD10840	*	GREASE EVERY 40 HOURS
5	GD112	1	ATTENTION LUBRICATE
6	GD191	2	MODEL '9800'
7	GDSW2	2	USE PROPER TOOL & READ MANUAL
8	GDSW200	4	OVERHEAD CRUSHING HAZARD
9	GDT3	2	CRUSHING HAZARD, HITCHING IMPLEMENT

* - VARIES BY MACHINE SIZE



GD100



GD102



GD10810



GD10840



GD112



GD191



GDSW2



GDSW200



GDT3



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