



**2011 9713-9715 FOLDING ASSEMBLY
AND PARTS MANUAL**

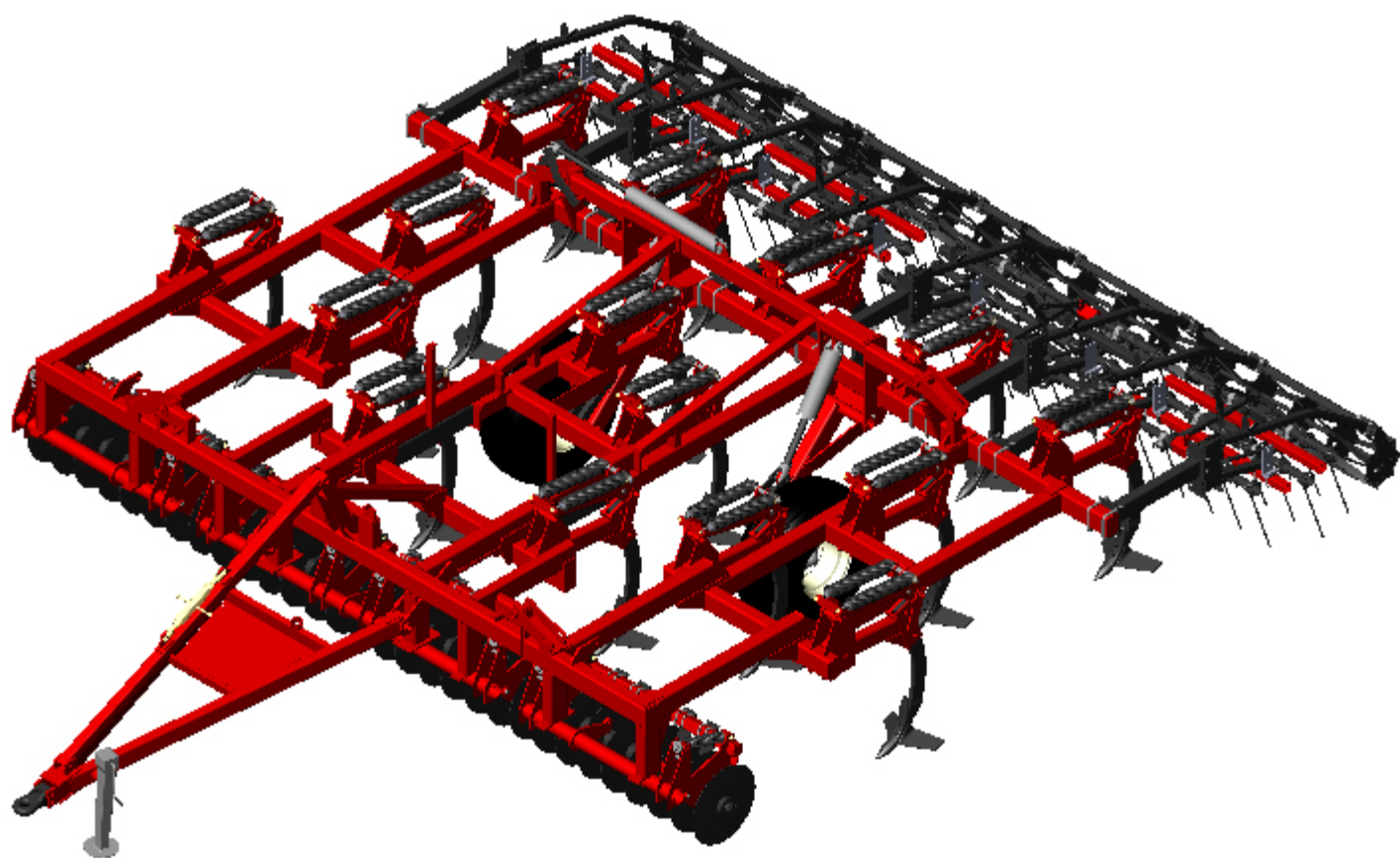
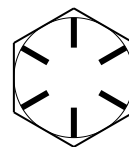
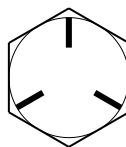
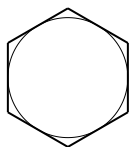


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Salford Recommended Torque Values



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

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

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

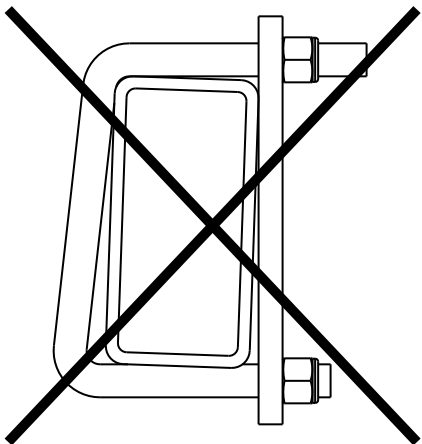
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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

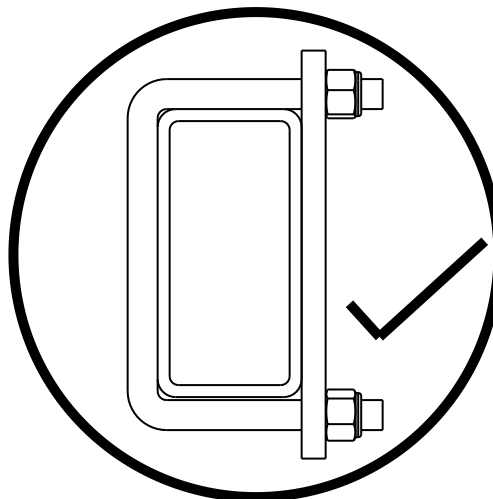
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

WARNING

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



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



Wheel Torque Specifications



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

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

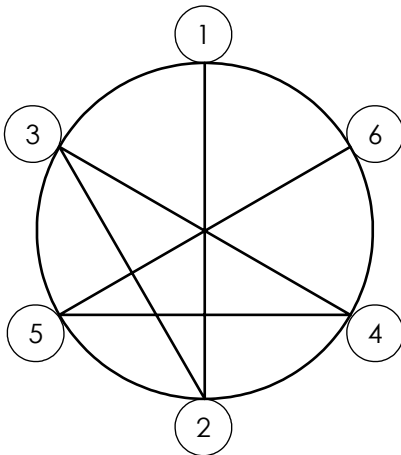
Install all lug nuts/bolts by hand to prevent cross threading and tighten lug nuts/bolts following the steps and tightening sequence diagram below.

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

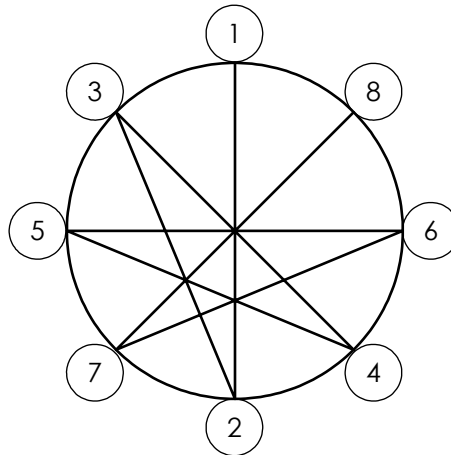
Bolt Size (Hub Size)	Final Torque
1/2" dia. bolt (up to 3000 lb hubs)	85 ft•lbs
9/16" dia. bolt (4000 - 5000 lb hubs)	120 ft•lbs
5/8" dia. bolt (5500 - 12000 lb hubs)	170 ft•lbs
3/4" dia. bolt (16000 - 20000 lb hubs)	300 ft•lbs
7/8" dia. bolt (25000 lb hubs)	450-500 ft•lbs

Lug Nut/Bolt Tightening Sequence

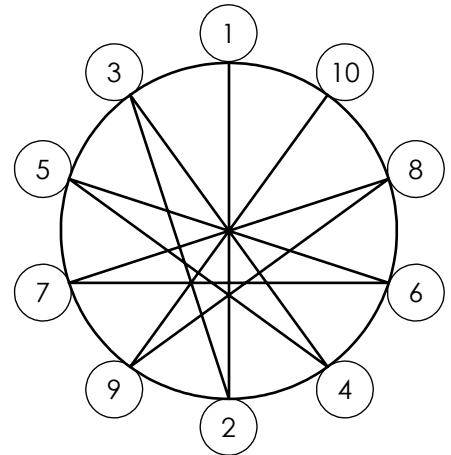
6 LUG BOLT PATTERN



8 LUG BOLT PATTERN



10 LUG BOLT PATTERN



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

Tire Pressure Ratings

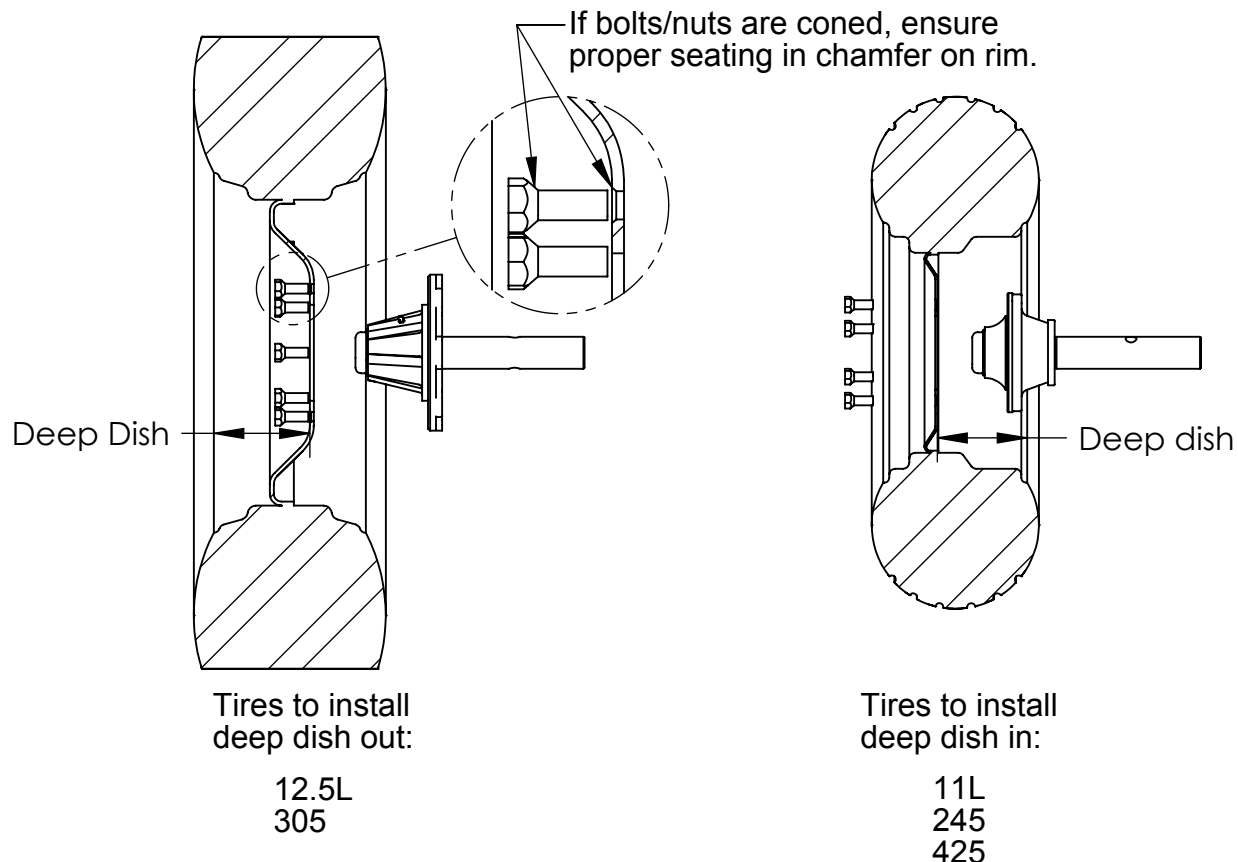
Ensure proper inflation of each tire for safe operation and extended tire life.

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



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.

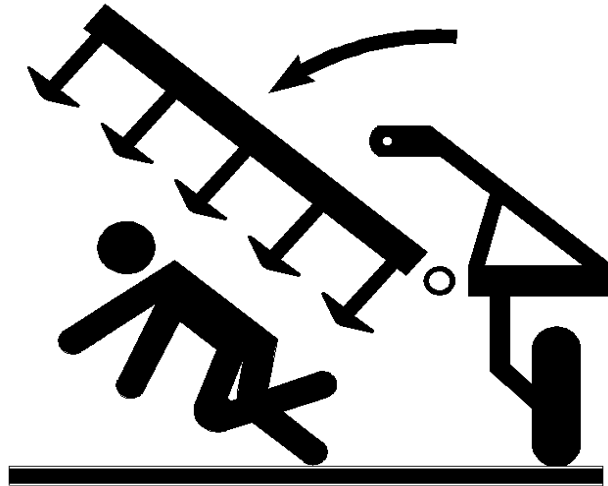
A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT !

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.

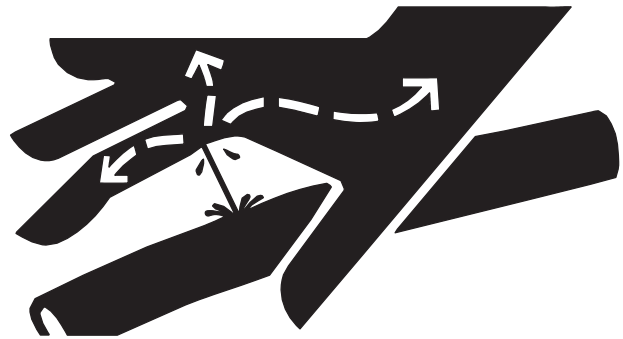


Hydraulics



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.



9700 Folding Decal Locations

ALL MACHINES

ITEM	QTY.	DESCRIPTION
GD102	2	LARGE SALFORD LOGO WITH WEBSITE
GD105	2	CTS MACHINE DECAL
GD131	2	9700 MACHINE DECAL
GD112	1	ATTENTION: LUBRICATE ALL GREASE FITTINGS AS PER OPERATOR MANUAL
GDSW700	1	WARNING: HIGH-PRESSURE FLUID HAZARD
GDSW4	1	CAUTION: LIST OF 13 SAFETY INSTRUCTIONS
GDT3	2	DANGER: CRUSHING HAZARD
GDSW2	2	CAUTION: TO AVOID INJURY OR MACHINE DAMAGE
GD109	1	DEPTH CONTROL DECAL
GD194	2	8-BOLT CAUTION TIRE DECAL

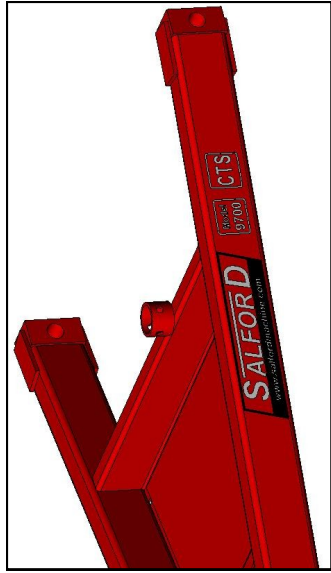
RIGID MACHINES

ITEM	QTY.	DESCRIPTION
GD100	6	LARGE SALFORD LOGO
GD10810	10	10 HOUR GREASE DECAL (PLUS 2 PER SHANK)

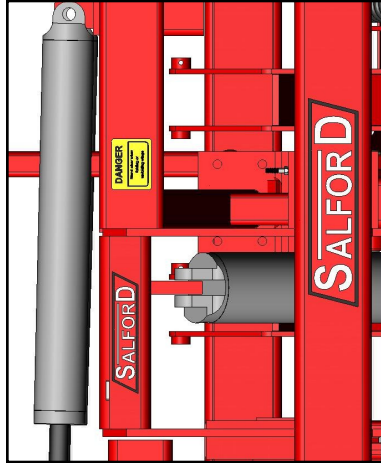
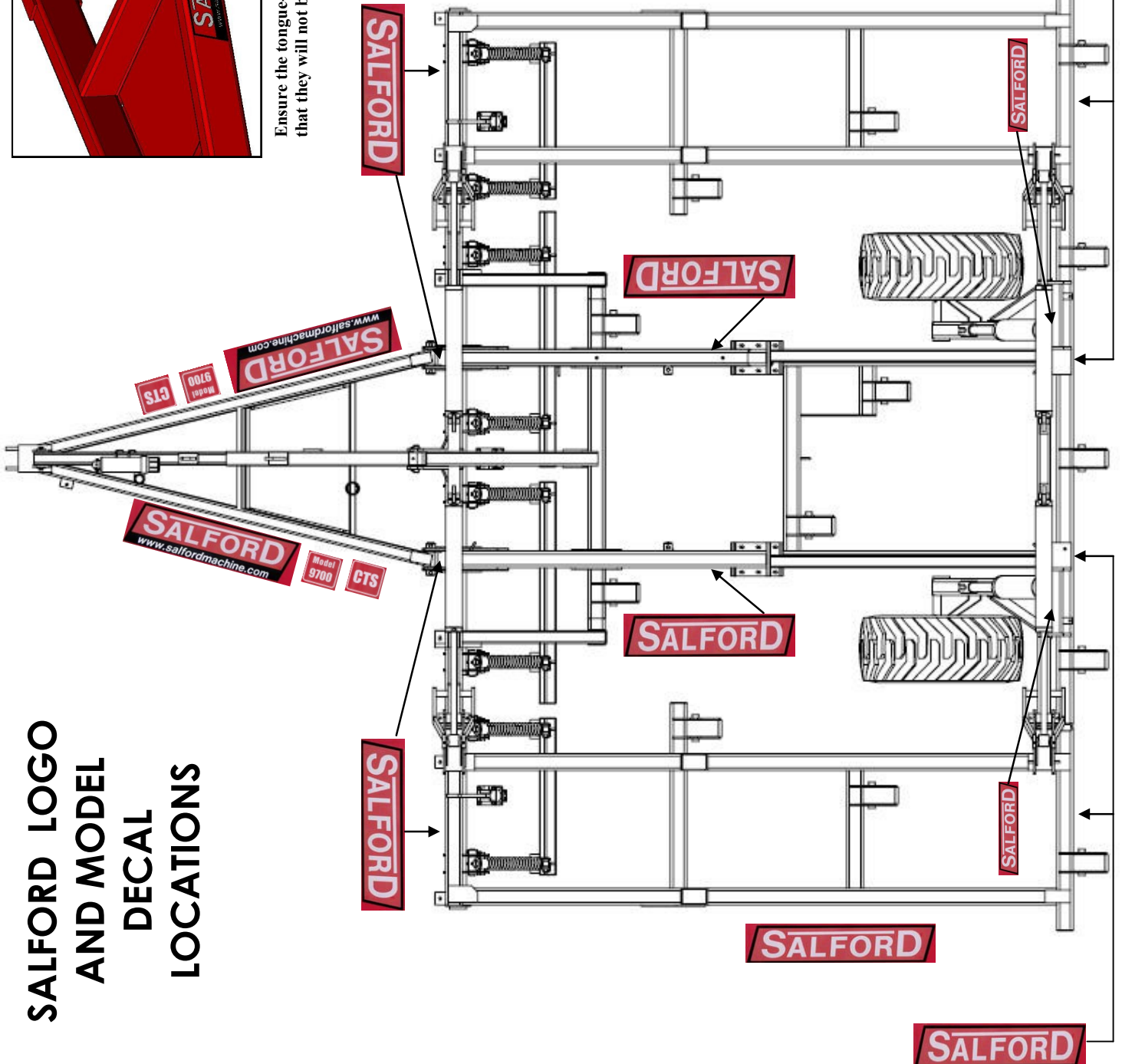
FOLDING MACHINES

ITEM	QTY.	DESCRIPTION
GD100	10	LARGE SALFORD LOGO
GD101	2	SMALL SALFORD LOGO
GD10810	12	10 HOUR GREASE DECAL (PLUS 2 PER SHANK)
GD111	2	DANGER: STAY CLEAR WHEN FOLDING/UNFOLDING WINGS
GDSW200	2	WARNING: OVERHEAD WING HAZARD
GD110	1	WARNING: DO NOT LIFT WINGS UNTIL LINES FULL OF OIL AND FREE OF AIR

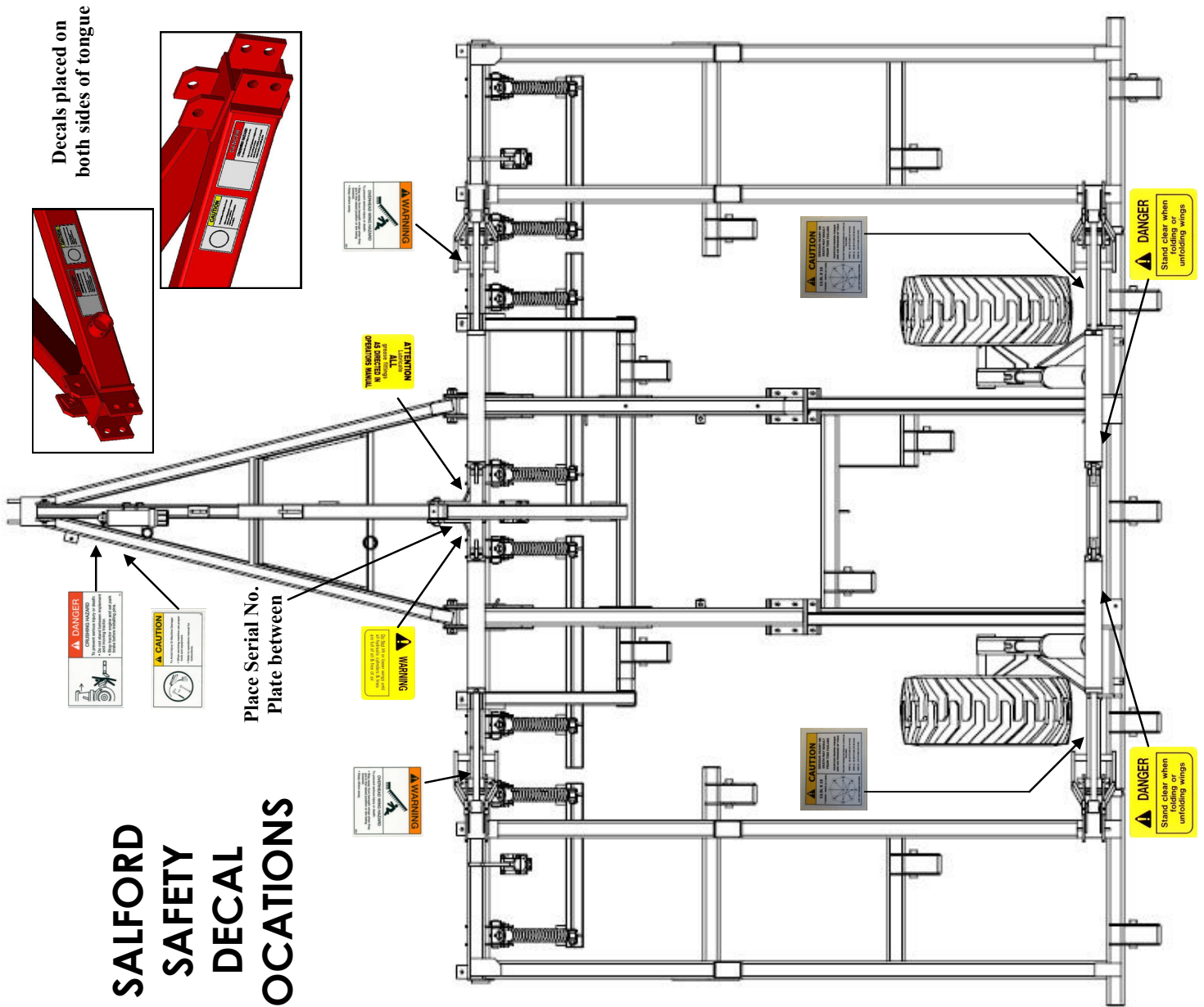
SALFORD LOGO AND MODEL DECAL LOCATIONS

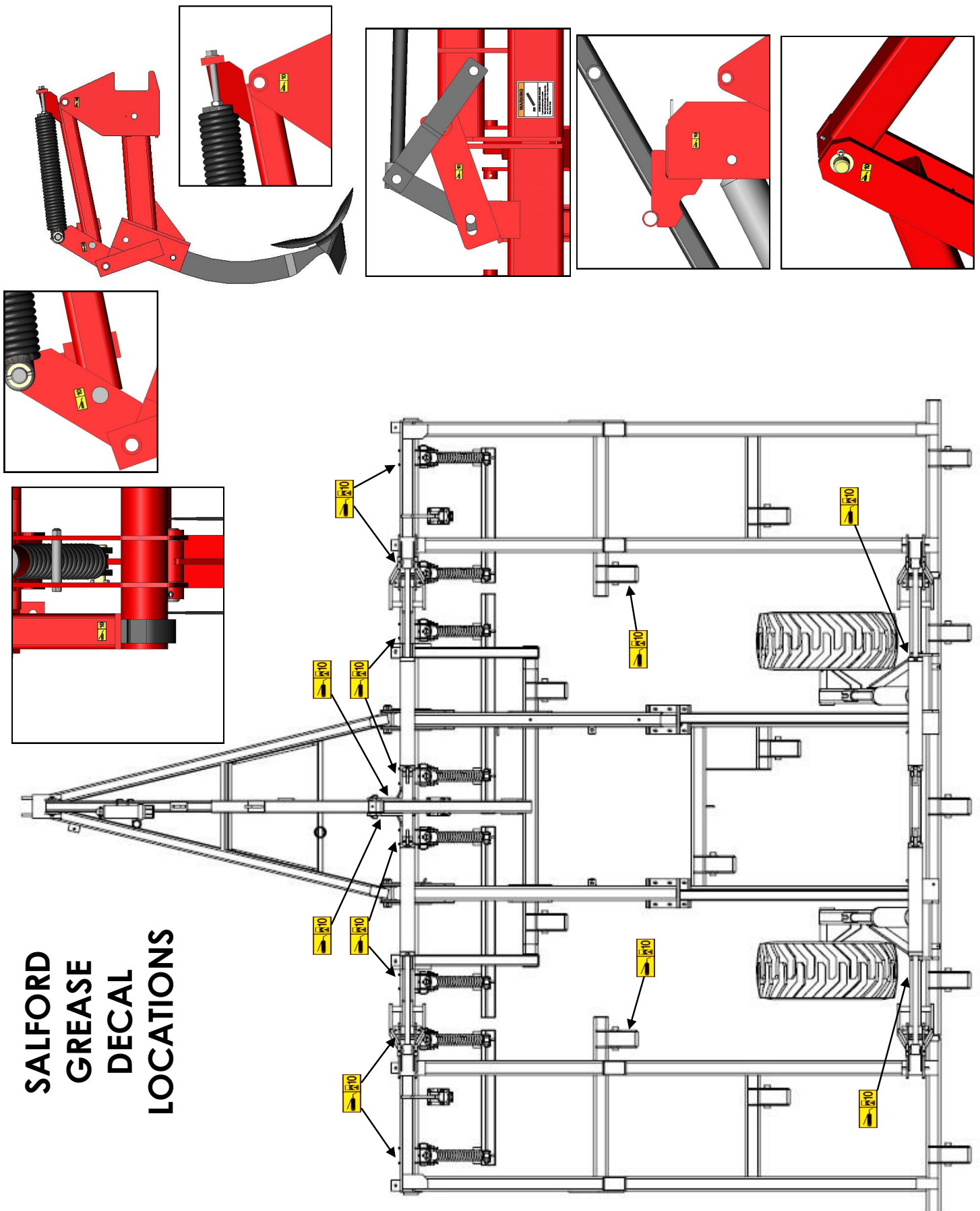


Ensure the tongue-mounted decals are located such that they will not be interfered with by tractor tires



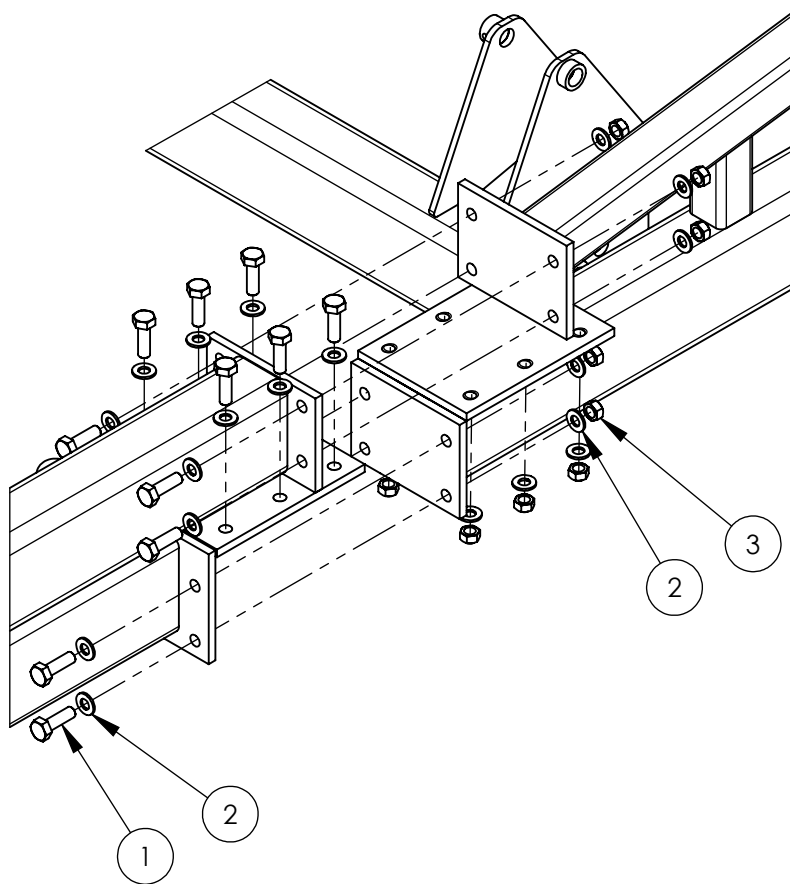
SALFORD SAFETY DECAL LOCATIONS





Frame & Axle Assembly

Main Frame Assembly



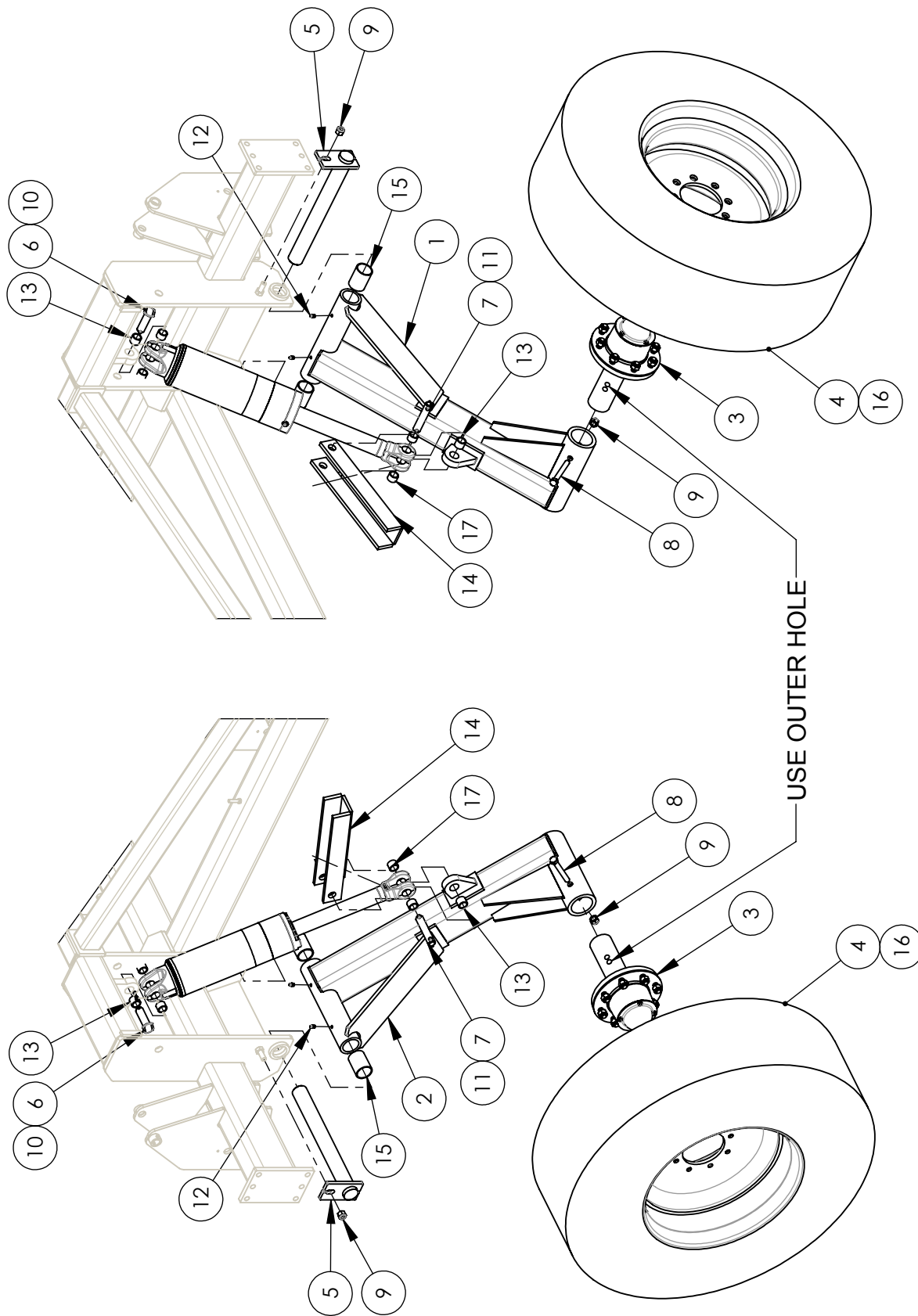
9713 & 9715 FRAME JOINT 2 PLACES

Main Frame Assembly

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	28	B1020F	5/8"-16NF x 2" HEX BOLT GR 5
2	56	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
3	28	BN10SF	5/8" NF STOVER LOCK NUT

1. Set rear frame on safety stands approx. 36" high on a flat surface.
2. Install front frame onto rear frame, aligning holes and installing 5/8" x 2" fine thread hex bolts (1), 5/8" hard washers (2), and 5/8" fine thread stover lock nuts (3). Keep all bolts loose until all are inserted and nuts are partially turned on.

Axle Assembly



LH AXLE ASSEMBLY

RH AXLE ASSEMBLY

Axle Assembly

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	C00109L	9713/9715 AXLE LH FOLDING
2	1	C00109R	9713/9715 AXLE RH FOLDING
3	2	GW12000A15	12000 LB HUB AND 15" SPINDLE ASSEMBLY
4	2	GW18228	425/65R x 22.5 x 8 BOLT WHEEL - RECAP
5	2	GPH3201958F	2" x 19 5/8" LG. AXLE PIN - HARDENED
6	2	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
7	2	GP16005A05	PIN 1" DIA. x 5" LG. - 2 HOLES
8	2	B1050	5/8" NF x 5" LG. HEX BOLT GR. 8 PLATED
9	4	BN10L	5/8" NYLOCK NUT NC
10	2	BSC0415	1/4" x 1 1/2" COTTER PIN
11	4	BSC0515	5/16" x 1 1/2" COTTER PIN
12	4	GF1610	1/8" NPT GREASE FITTING
13	4	GBB125100100	1 1/4" x 1" x 1" LG. HARD BUSHING
14	2	2445	LOCK, TRANSPORT - 9700
15	4	GBB225200300	2 1/4" x 2" x 3" LG. HARD BUSHING
16	2	GW16168H	16.5L x 16.1 FIE TIRE & RIM - 8 BOLT -1 1/2" OFFSET
17	8	GBB125100086	1 1/4" x 1" x .860" LG. HARD BUSHING

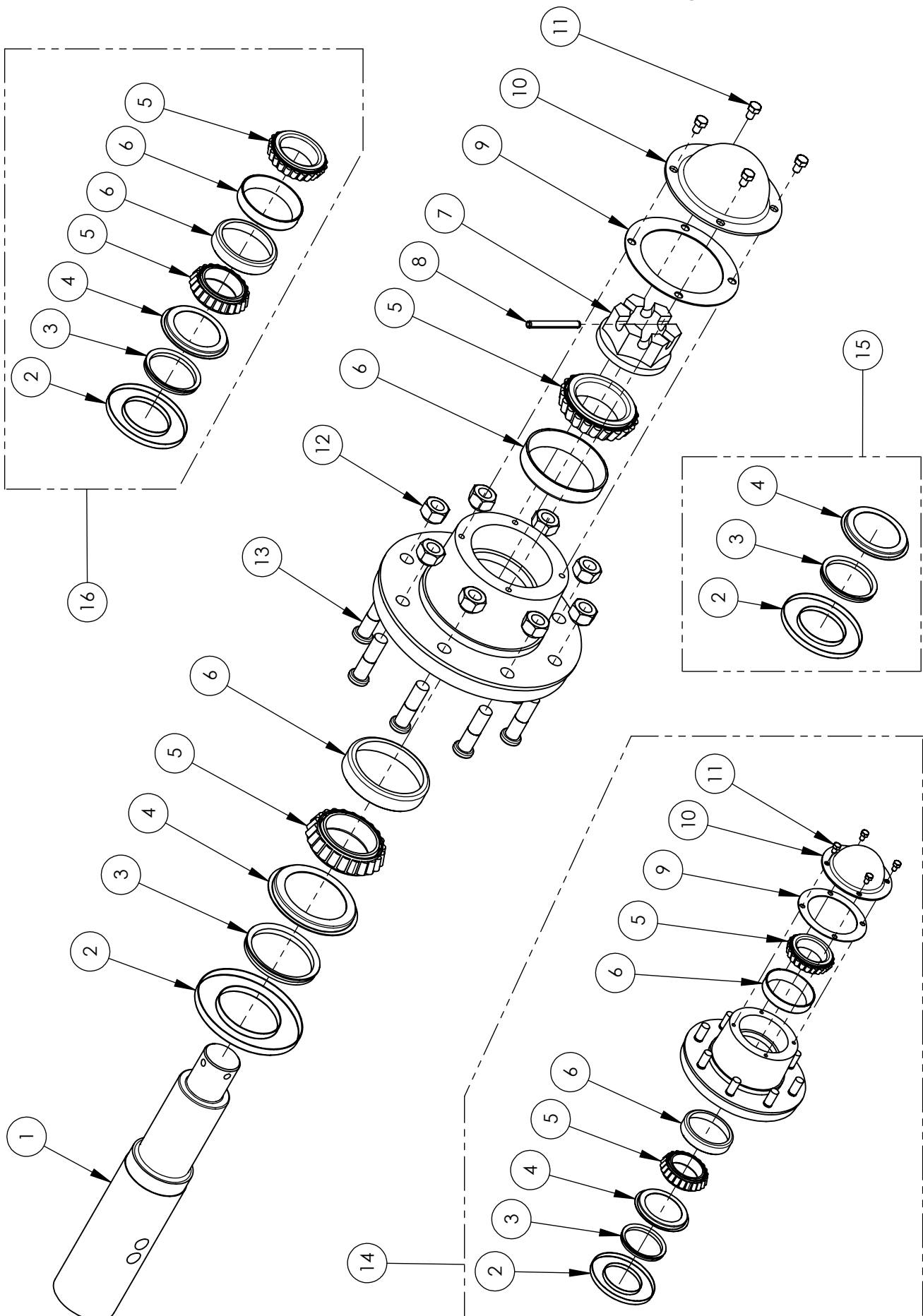


CAUTION

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)

12000lb Hub & Spindle Assembly



12000lb Hub & Spindle Assembly

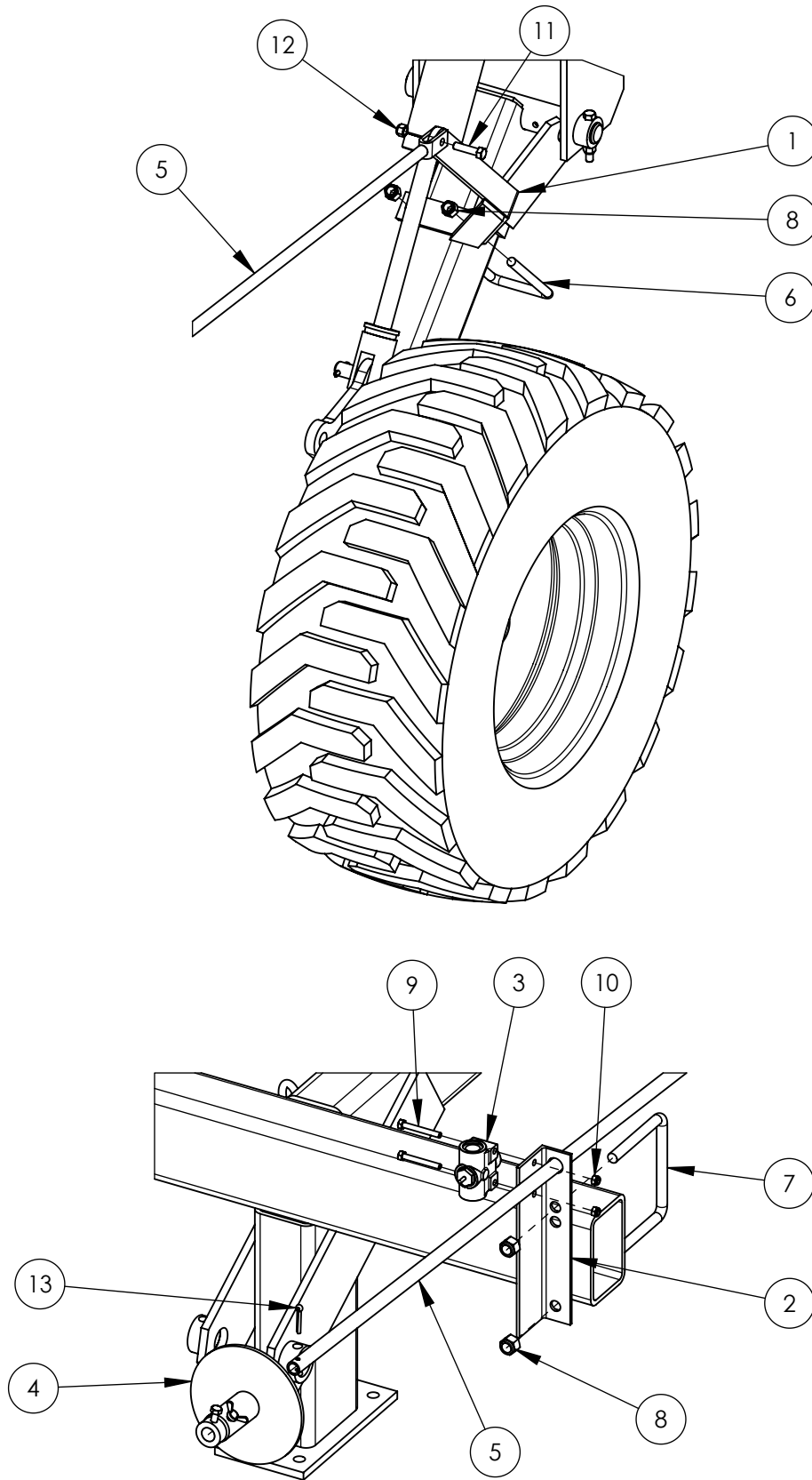
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GW12015	12000 LB SPINDLE - 15" LONG
2	1	GW12110VW	10000/12000 LB GRASS WRAP GUARD
3	1	GW12110VS	10000/12000 LB V-SEAL
4	1	GW12110VC	10000/12000 LB COUNTERFACE
5	2	GB28995	12000 LB CONE, 10000 LB INNER CONE
6	2	GB28921	12000 LB CUP, 10000 LB INNER CUP
7	1	BN28SF	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

Depth Control Installation



Depth Control Installation

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	W00176	CTS DEPTH CONTROL BRACKET (AXLE)
2	1	A80001	POPPET VALVE MOUNTING BRACKET
3	1	HPMSC10	STROKE CONTROL VALVE
4	1	C1008	DETENT ADJUSTABLE STOP
5	1	C1009	9700 DEPTH CONTROL ROD - 144"
6	1	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
7	1	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
8	4	BN10L	5/8" NYLOCK NUT NC
9	2	B0525	5/16 x 2 1/2" BOLT
10	2	BN05L	5/16" LOCK NUT
11	1	B0820	1/2"NC x 2" LG. HEX BOLT
12	1	BN08L	1/2" NYLOCK NUT NC
13	1	BSC0415	1/4" x 1 1/2" COTTER PIN

1. Install depth control bracket (1) to top of LH axle with 5/8" x 4" x 7 1/2" U-bolt (6) and 5/8" locknuts (8). Position arm approximately 10" (25cm) from top of axle.
2. Attach depth control rod (5) to bracket with 1/2" x 2" hex bolt (11) and 1/2" locknut (12). Do not overtighten, rod clevis must be able to pivot on arm. Rod may need bending to clear shanks and frame.
3. Slide poppet valve mounting bracket (2) over control rod and attach to frame with 5/8" x 6" x 5 1/2" U-bolt (7) and 5/8" locknuts (8). Tighten both locknuts equally. **DO NOT OVERTIGHTEN!**
4. Install poppet valve (3) to mounting bracket with 5/16" x 2 1/2" hex bolts (9) and 5/16" locknuts (10). Note: boss on valve housing must face bracket, and poppet pin must face to front of machine (see picture below).
5. Slide adjustable stop (4) onto depth control rod and fasten in place with attached hex bolt.
6. Place 1/4" x 1 1/2" cotter pin (13) into end of depth control rod.

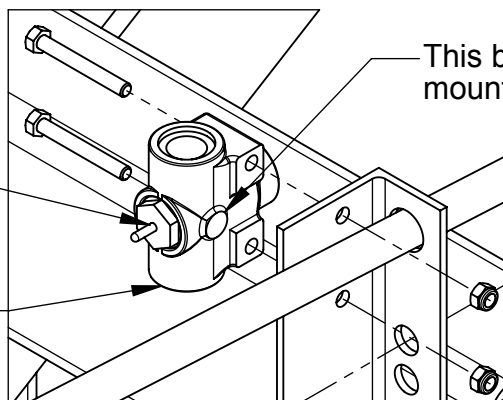


CAUTION

After assembly is complete move machine all the way up and down and watch for any interference throughout the cycle.

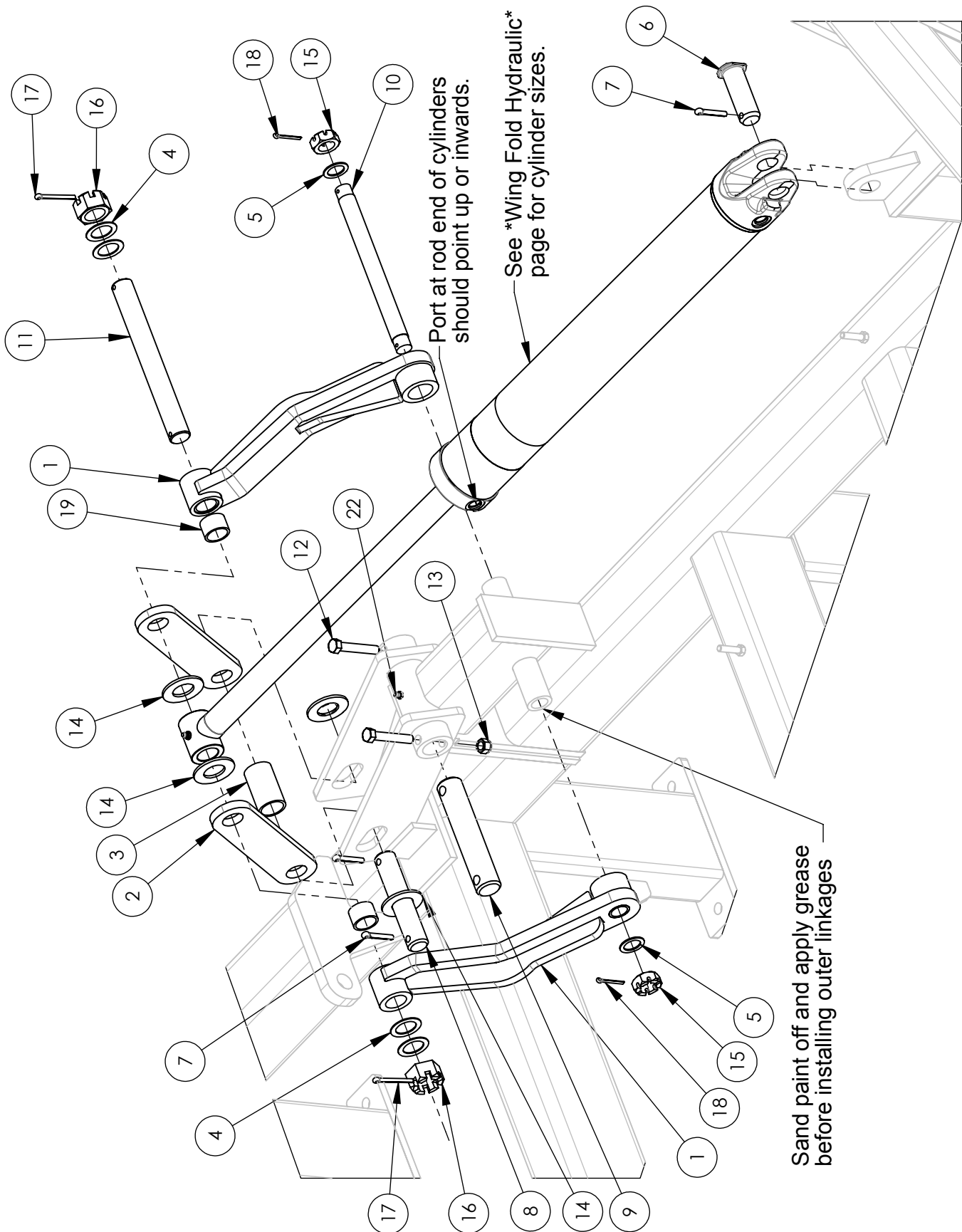
Poppet pin to face front of machine

Metal plug must be installed in bottom port (re-use from cylinder port)



This boss must face mounting bracket

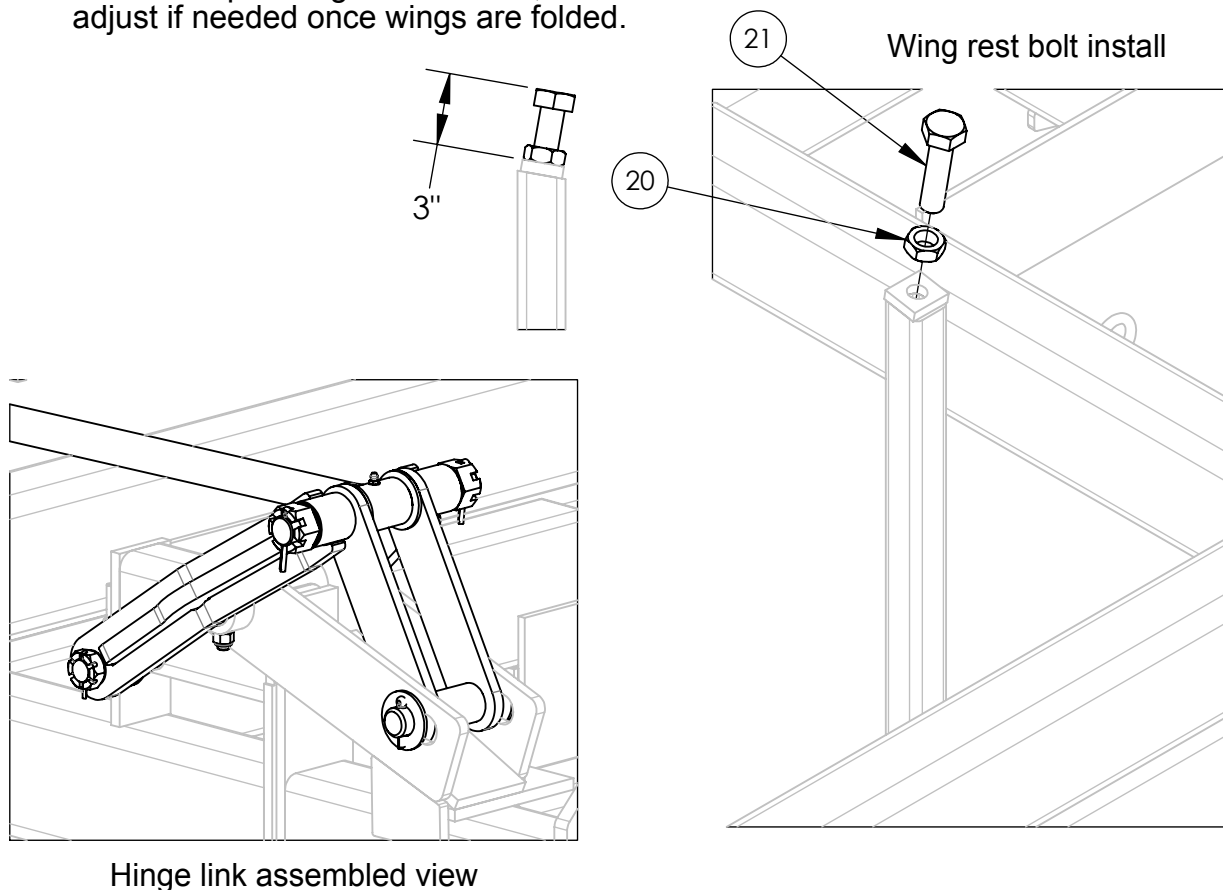
9700 Folding Wing Installation



9700 Folding Wing Installation

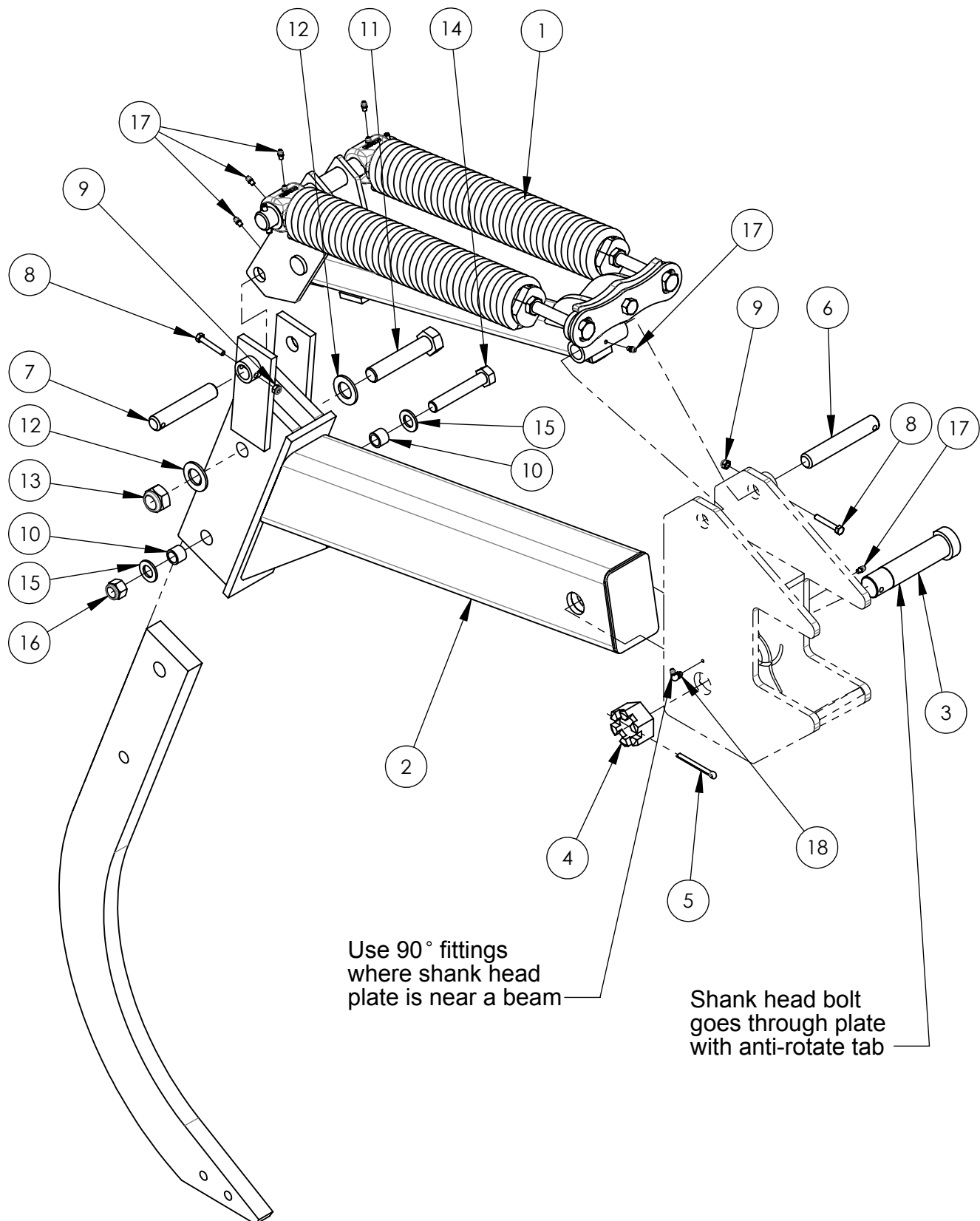
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	8	C11088	41-50ft SEC. WING FOLD OUTER LINK
2	8	W00021	1/2" x 2 1/2" x 11 1/2" FLATBAR
3	4	ZD211025	9700 WING HINGE SPACER
4	16	GM30	1 1/4" MACHINE BUSHING
5	8	GM26	1" MACHINE BUSHING
6	4	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
7	12	BSC0520	5/16" x 2" COTTER PIN
8	4	GPH2000612A06	1 1/4" x 6 1/2" HARDENED PIN - 2 HOLES
9	4	GP2400758A09	PIN 1 1/2" DIA. x 7 5/8" LG. - 2 HOLES
10	4	GPSPEC16A1005	FLAT FOLD LINKAGE PIN 1" x 11 1/2" LG.
11	4	GPSPEC201100A04F	FLAT FOLD LINKAGE PIN 11" LG
12	8	B0830	1/2"NC x 3" HEX BOLT
13	8	BN08L	1/2" NYLOCK NUT NC
14	16	BF20S	1 1/4" SAE WASHER
15	8	BN16JS	1"-14NF SLOTTED JAM NUT
16	8	BN20SF	1 1/4"NF SLOTTED HEX NUT
17	8	BSC0425	1/4" x 2 1/2" COTTER PIN
18	8	BSC0317	3/16" x 1 3/4" COTTER PIN
19	8	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
20	2	BN16J	1"NC JAM NUT
21	2	B1640TH	1" x 4" NC TAP BOLT
22	4	GF1610	1/8" NPT GREASE FITTING

Initial set-up setting should be 3",
adjust if needed once wings are folded.



Shank Assembly

Shank Assembly

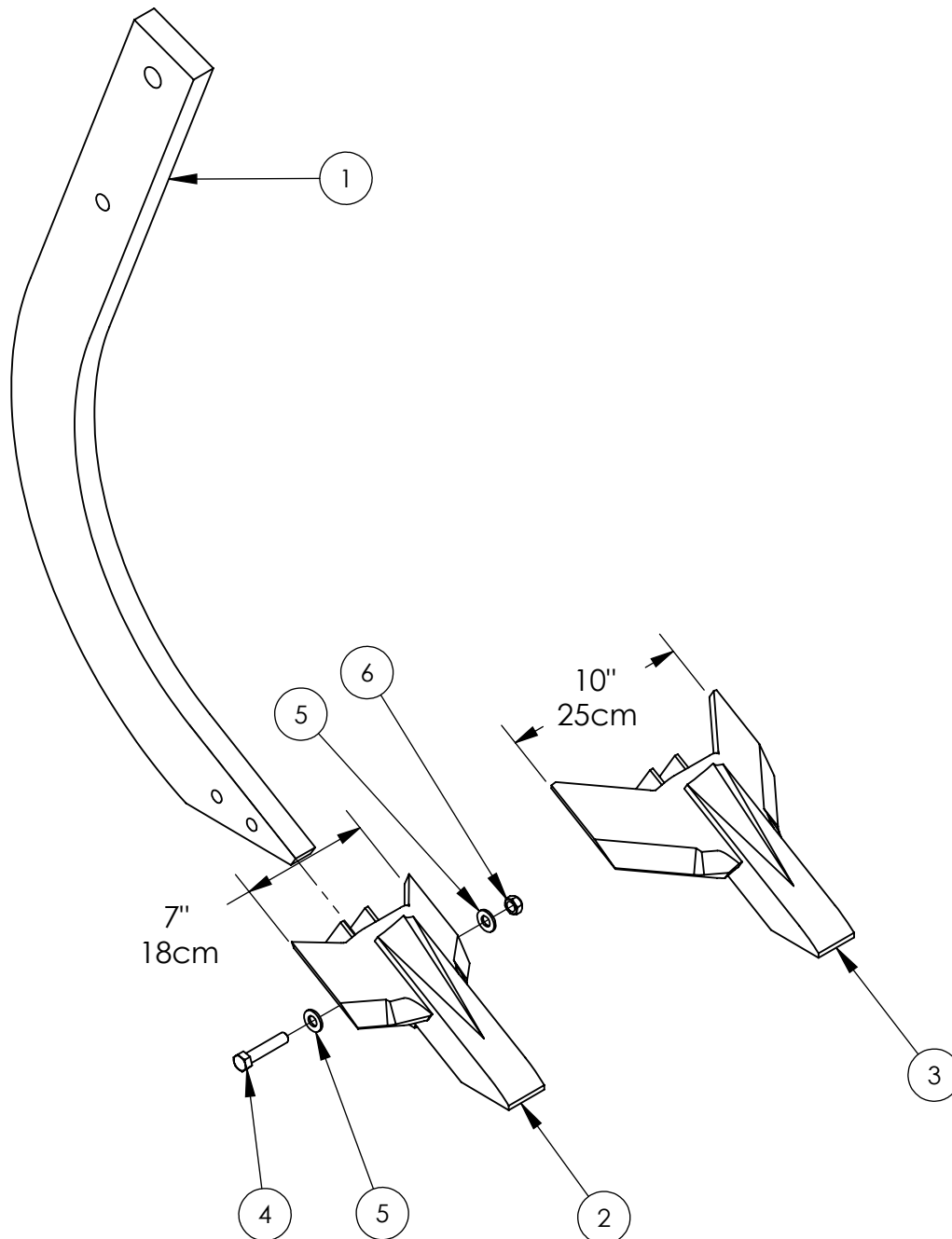


Shank Assembly

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

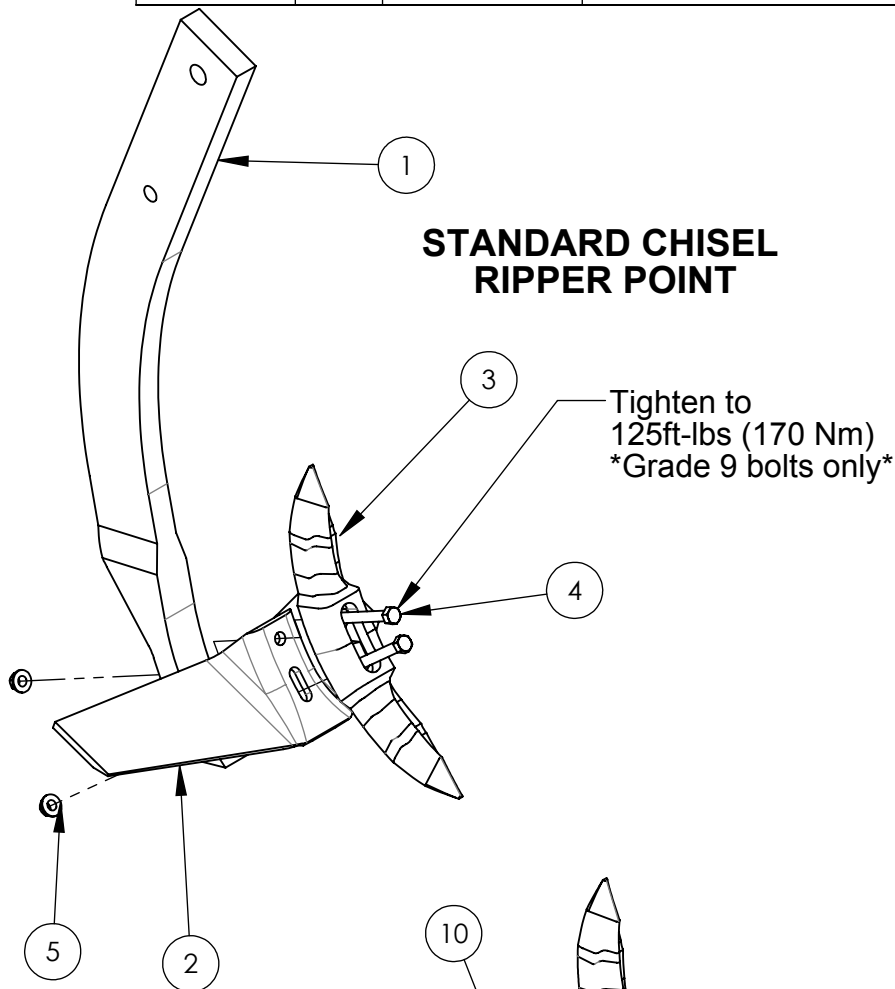
Parabolic Shank Assembly

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

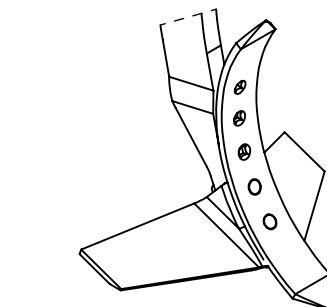
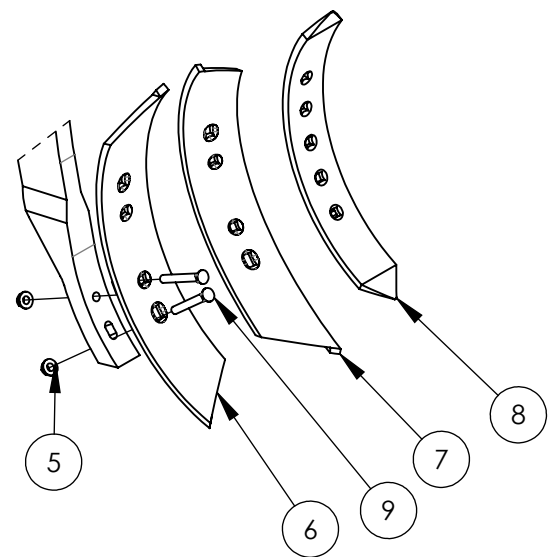


Chisel Ripper Shank Assembly

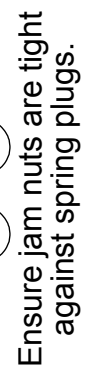
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	CT3540	1 1/4" x 4" CHISEL RIPPER LOWER SHANK
2	1	CT1573	17" SWEEP
3	1	CT8235C	2 1/2" X 1" X 20" CHISEL
4	2	B0840-9	1/2"-13NC x 4" LG. HEX BOLT GR. 9
5	2	BN08SF	1/2"-13NC FLANGE STOVER LOCK NUT GR. 8
6	1	CT4008L	4" TWISTED SHOVEL LH
7	1	CT4008R	4" TWISTED SHOVEL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



OPTIONAL 10" SWEEP



SHOVEL POINTS CAN BE INSTALLED WITH SWEEPS

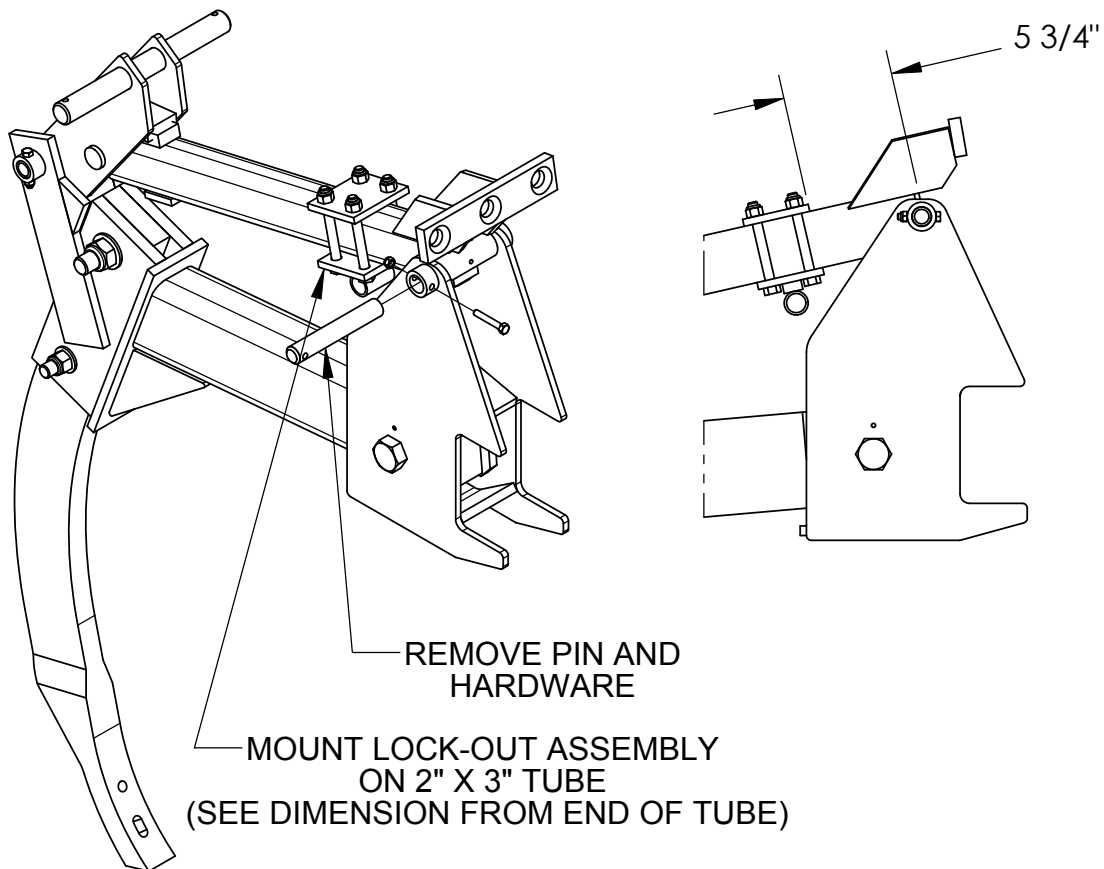


Auto Reset Spring Trips

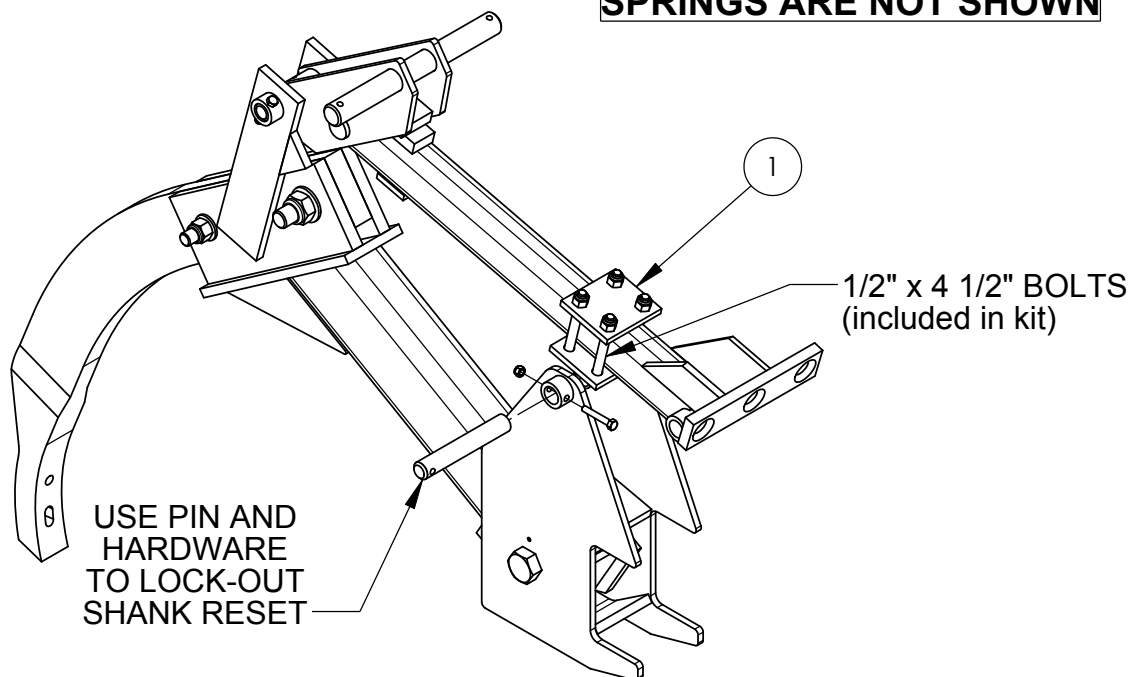
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	W00390	TRIP ASSEMBLY
2	2	B1250T	3/4" NC x 5" TAP BOLT
3	2	BN12J	3/4" JAM NUT
4	2	GSE1036B	36 COIL RESET SPRING ASSEMBLY - 3/4"NC HOLE
5	2	BSR0520	5/16 x 2" ROLL PIN
6	2	GM30	1 1/4" MACHINE BUSHING
7	2	GF641	1/4"-28NF GREASE FITTING
8	2	BF10	5/8" FLAT WASHER
9	1	FL00879	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

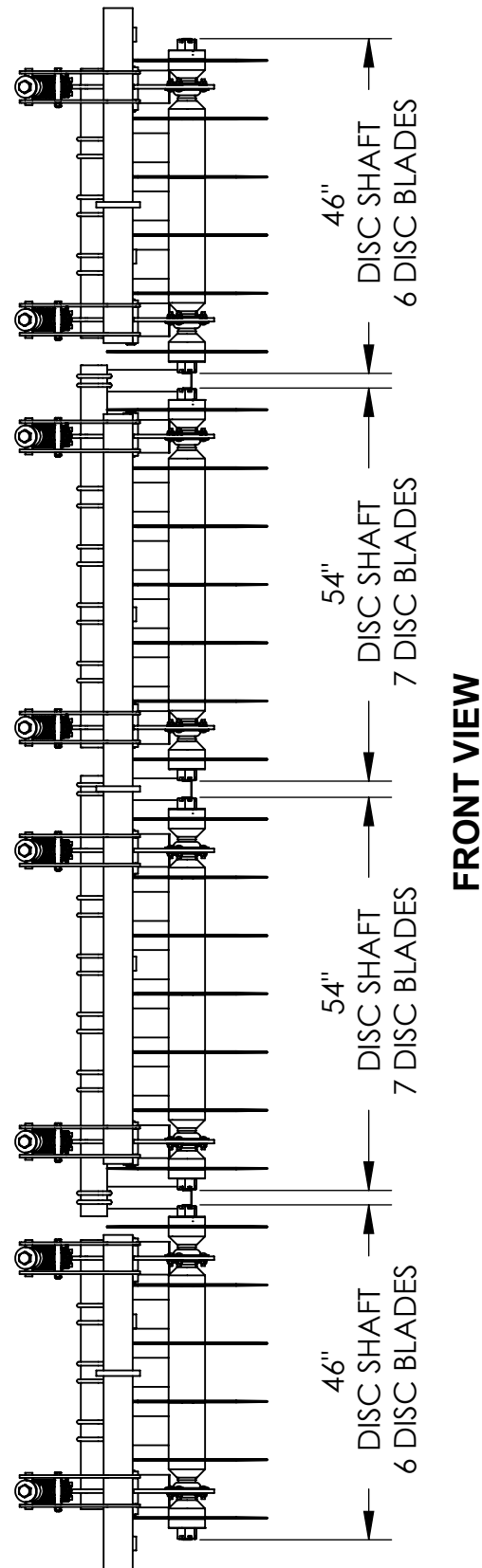
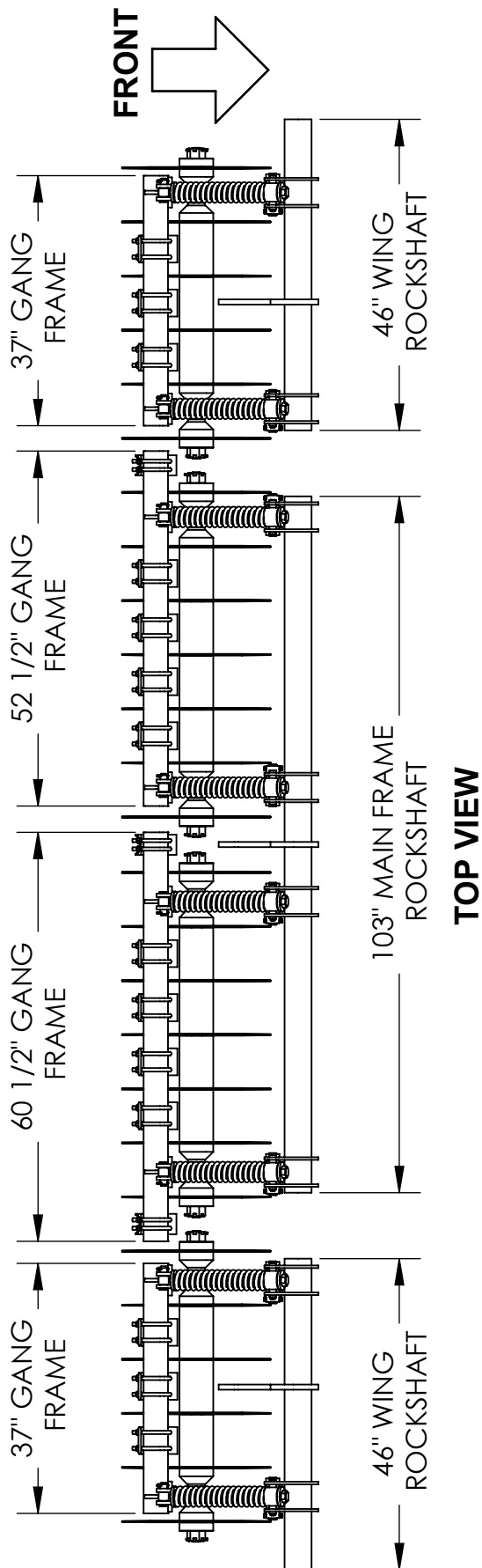


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	W00359	SHANK LOCKOUT ASSEMBLY

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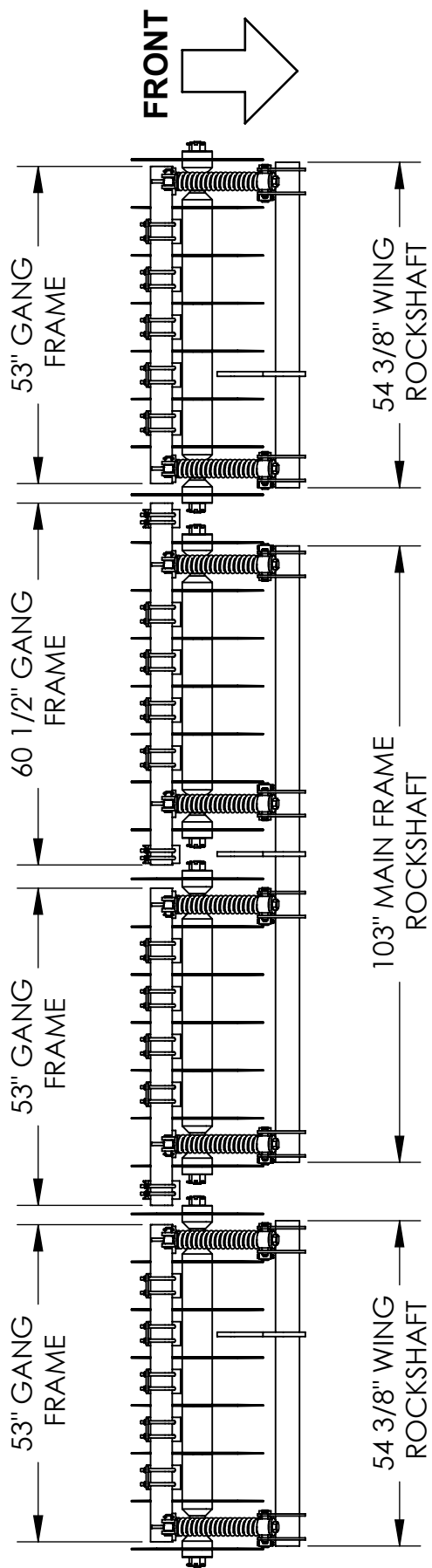
Disc Gangs

9713 Folding Disc Gang Layout

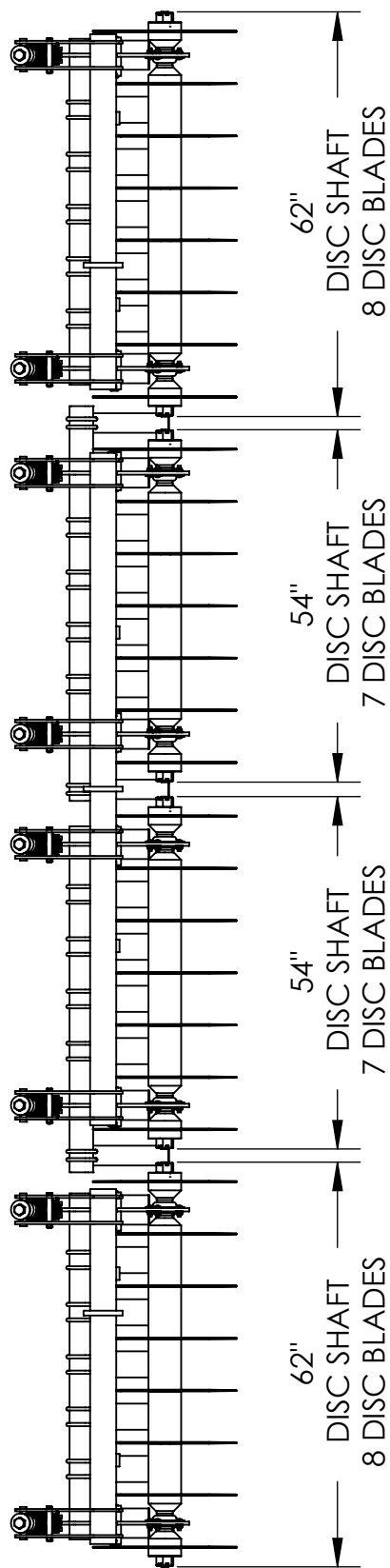


9713 FOLDING STRAIGHT DISC GANG LAYOUT

9715 Folding Disc Gang Layout



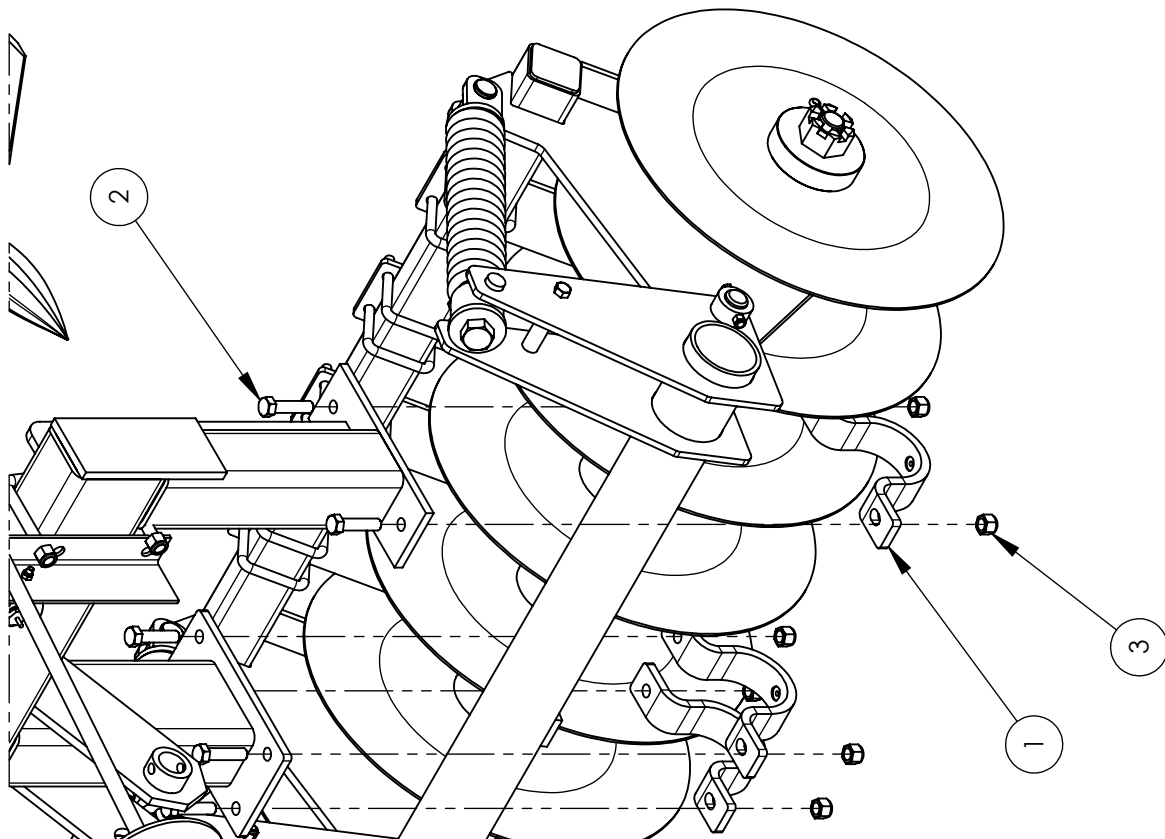
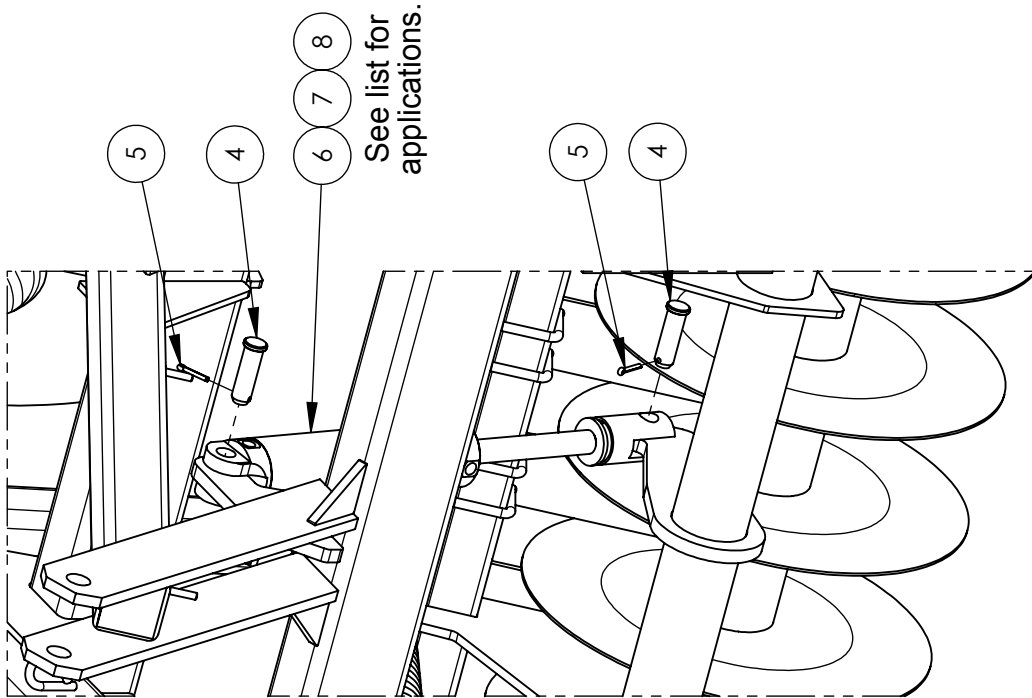
TOP VIEW



FRONT VIEW

9715 FOLDING STRAIGHT DISC GANG LAYOUT

Disc Gang Installation



Disc Gang Installation

ITEM NO.	PART NO.	DESCRIPTION
1	C0331	ROCKSHAFT CLAMP
2	B1025	5/8 x 2 1/2" HEX BOLT GR 5
3	BN10L	5/8" NYLOCK NUT NC
4	GP1600314H04	PIN 1" DIA. x 3 1/4" LG. WITH HEAD
5	BSC0415	1/4" x 1 1/2" COTTER PIN
6	HCR3708	MONARCH 3 3/4" x 8" REPHASING CYLINDER
7	HCR3508	MONARCH 3 1/2" x 8" REPHASING CYLINDER
8	HCR3208	MONARCH 3 1/4" x 8" REPHASING CYLINDER

1. Install disc gangs onto front frame sections. Mount with rockshaft clamps (1), 5/8" x 2" hex bolts (2), and 5/8" lock nuts (3).

2. 9713/9715 Folding: Mount 3 3/4" bore x 8" stroke cylinder (6) to main frame and rockshaft of middle disc gang. Mount 3 1/2" bore x 8" stroke cylinder (7) to LH wing frame and rockshaft of LH disc gang. Mount 3 1/4" bore x 8" stroke cylinder (8) to RH wing frame and rockshaft of RH disc gang. Attach cylinders with 1" x 3 1/4" head pin (4) and 1/4" x 1 1/2" cotter pin (5).

9713/9715 Rigid: Mount 3 3/4" bore x 8" stroke cylinder (6) to main frame and rockshaft of LH disc gang. Mount 3 1/2" bore x 8" stroke cylinder (7) to main frame and rockshaft of RH disc gang. Attach cylinders with 1" x 3 1/4" head pin (4) and 1/4" x 1 1/2" cotter pin (5).

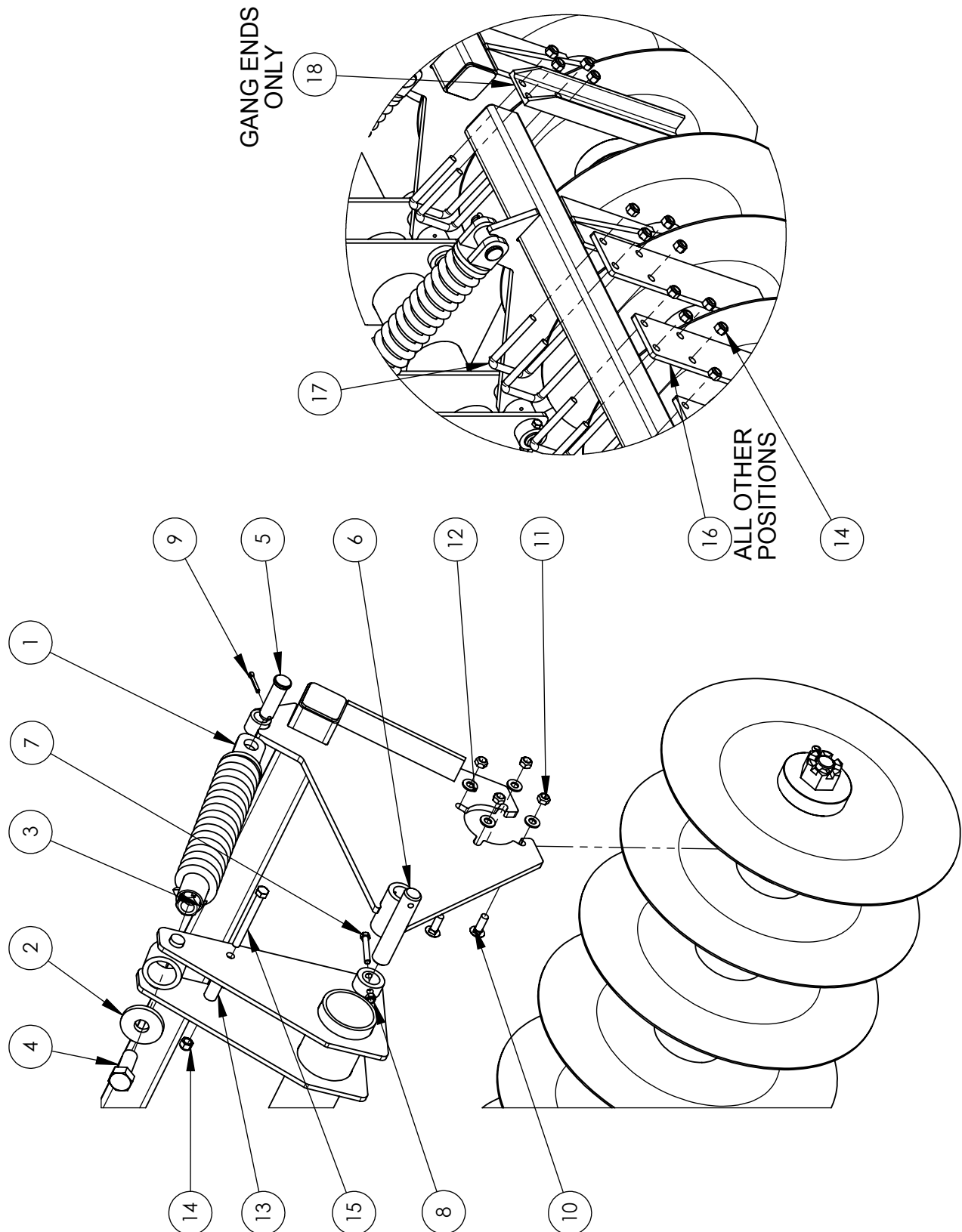
See disc gang hydraulics for hose routing and charging the circuit.

Cylinder list

9713/9715 Folding:
Main disc gang - HCR3708
LH wing disc gang - HCR3508
RH wing disc gang - HCR3208

9713/9715 Rigid:
LH disc gang - HCR3708
RH disc gang - HCR3508

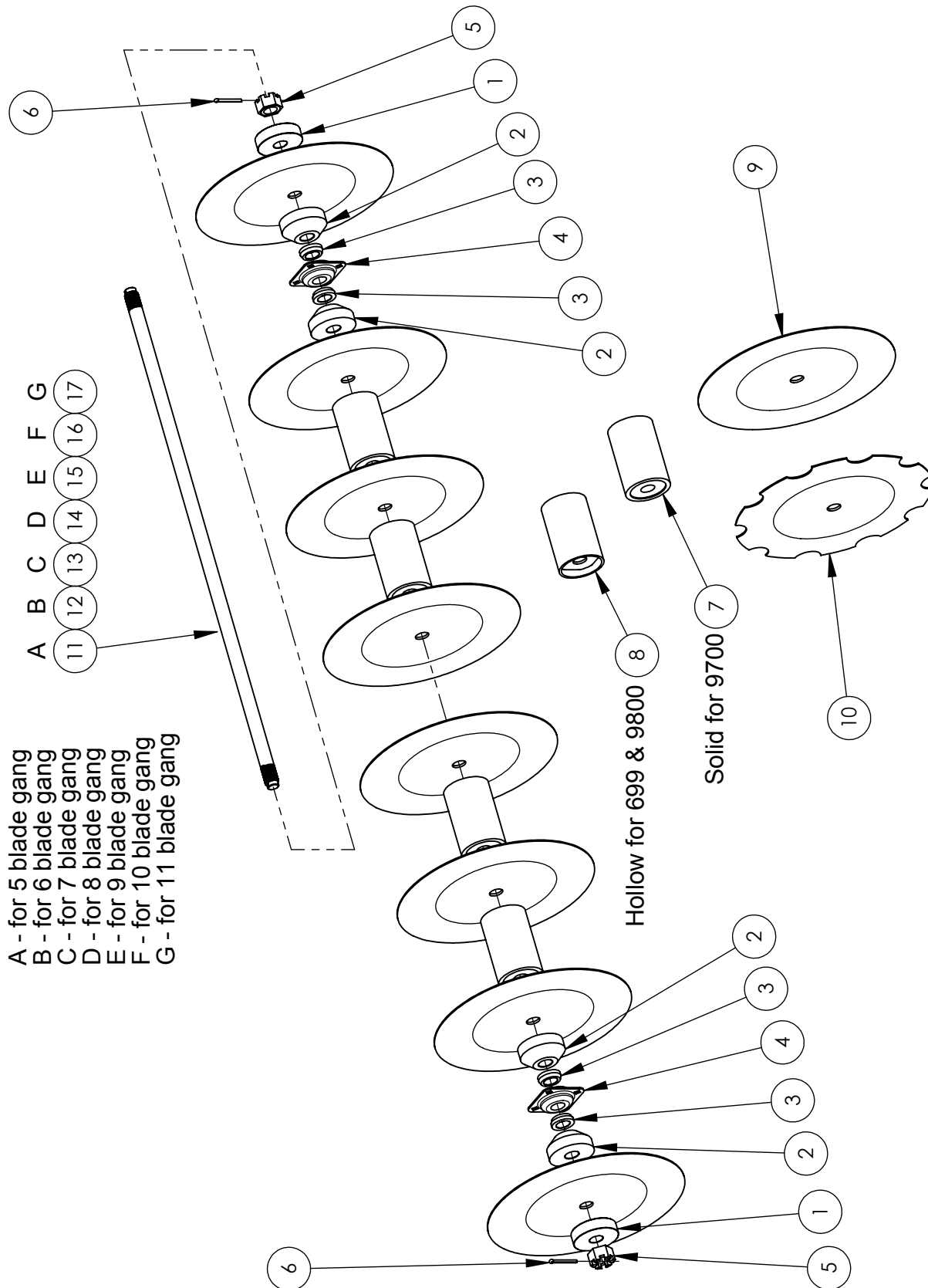
Disc Gang Components



Disc Gang Components

ITEM	PART NO.	DESCRIPTION
1	D00019	TUBE, SPRING CUSHION
2	1266	3" SPRING WASHER
3	GSC0915	CUSHION SPRING
4	B1625	1" NC x 2 1/2" HEX BOLT
5	GP1600314H04	PIN 1" DIA. x 3 1/4" LG. WITH HEAD
6	GP2000612B06	1 1/4" x 6 1/2" LG. PIN - 1 HOLE
7	B0625	3/8"NC x 2 1/2" LG. HEX BOLT
8	BN06L	3/8"-16NC LOCK NUT
9	BSC0415	1/4" x 1 1/2" COTTER PIN
10	BC0815H	1/2"NC x 1 1/2" LG. CARRIAGE BOLT GR. 5
11	BN08S	1/2"-13NC STOVER LOCK NUT
12	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
13	C6700	1/2 GALVANIZED PIPE 3 5/8" LG
14	BN08L	1/2" NYLOCK NUT NC
15	B0850	1/2"NC x 5" LG. HEX BOLT
16	C6070	3/8" x 4" x 16 3/8" DISC SPOOL SCRAPER (FOR 9700 CTS)
17	BU0830	1/2" x 3" x 4 1/4" U-BOLT
18	C6071	DISC SPOOL SCRAPER-HEAVY DUTY

Straight Disc Gang Assembly



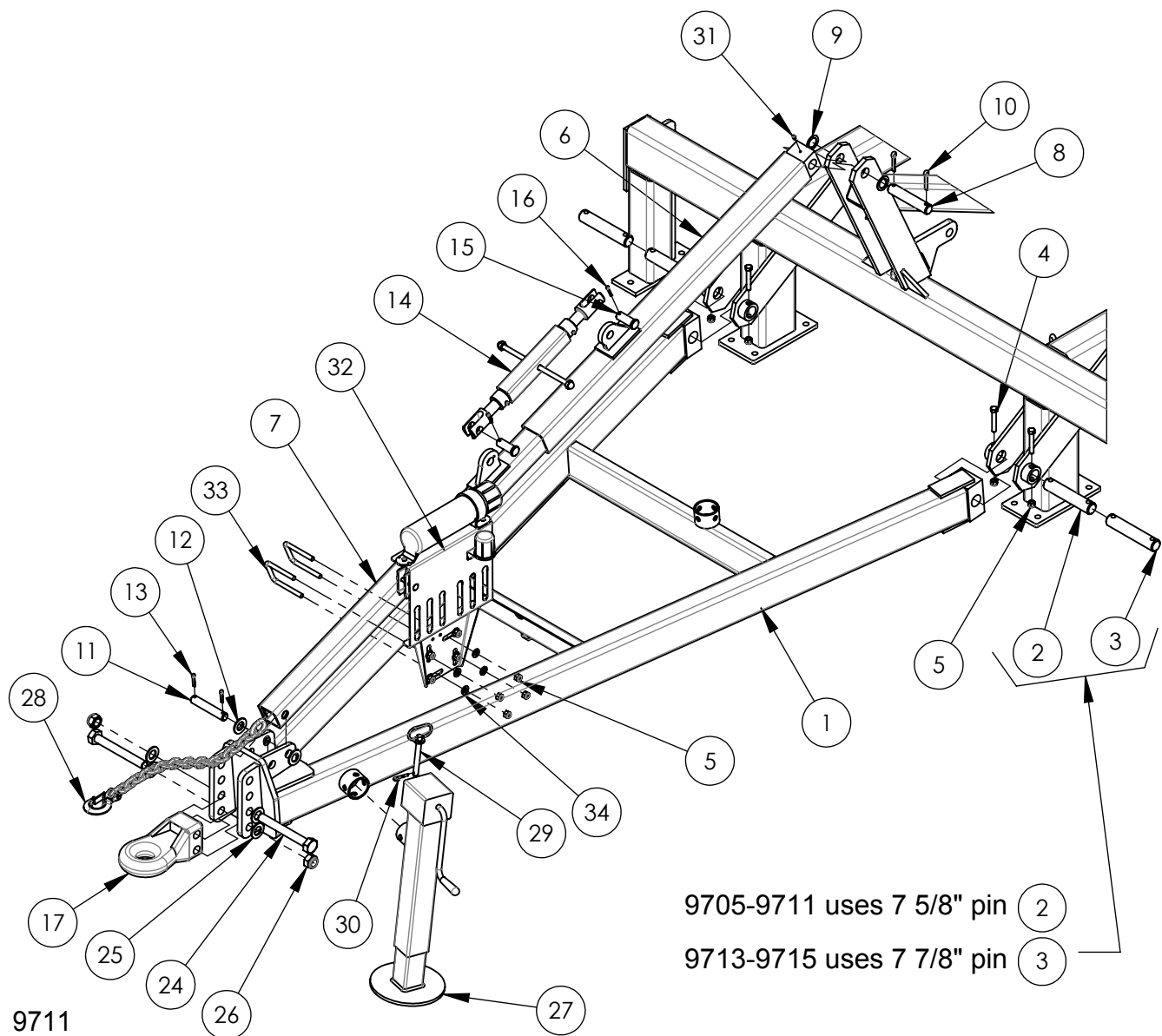
Straight Disc Gang Assembly

	ITEM NO.	QTY	PART NUMBER	DESCRIPTION
	1	2	D20000	5" DIA. x 1 1/4" FLAT SPACER
	2	4	D20009	5 X 2 5/16" SPACER-1 1/8" CHAMFER
	3	4	ZD251009	2 1/2 X 3/4" SPACER
	4	2	GB491-B	BEARING CARTRIDGE
	5	2	BN24S	1 1/2" SLOTTED HEX NUT NC GR5
	6	2	BSC0530	5/16" x 3" COTTER PIN
	7	5	D00069	8" x 5" DIAM. SPOOL - SOLID FOR 9700
	8	1	D20019	8" x 5" DIAM. SPOOL - HOLLOW FOR 699/9800
	9	9	CT50245	22 1/2" SMOOTH FLAT BLADE 1/4" THICK
	10	1	CT5022	22" NOTCHED FLAT BLADE 1/4" THICK
A	11	1	DK24038	1 1/2" DIA. DISC SHAFT - 38" LG.
B	12	1	DK24046	1 1/2" DIA. DISC SHAFT - 46" LG.
C	13	1	DK24054	1 1/2" DIA. DISC SHAFT - 54" LG.
D	14	1	DK24062	1 1/2" DIA. DISC SHAFT - 62" LG.
E	15	1	DK24070	1 1/2" DIA. DISC SHAFT - 70" LG.
F	16	1	DK24078	1 1/2" DIA. DISC SHAFT - 78" LG.
G	17	1	DK24086	1 1/2" DIA. DISC SHAFT - 86" LG.

A - for 5 blade gang
 B - for 6 blade gang
 C - for 7 blade gang
 D - for 8 blade gang
 E - for 9 blade gang
 F - for 10 blade gang
 G - for 11 blade gang

Tongue

Tongue Installation



9705-9711 uses 7 5/8" pin (2)

9713-9715 uses 7 7/8" pin (3)

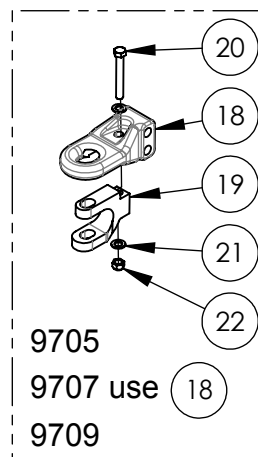
9711

9713 use (17)

9715

Torque (20) & (22)
to 220-250 ft/lbs

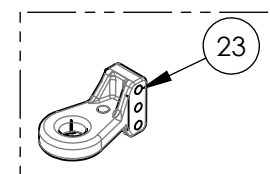
Install clevis in bottom holes
for draw-bars 18-22" high.
For taller draw-bars move
clevis up as required to
level machine.



9705

9707 use (18)

9709



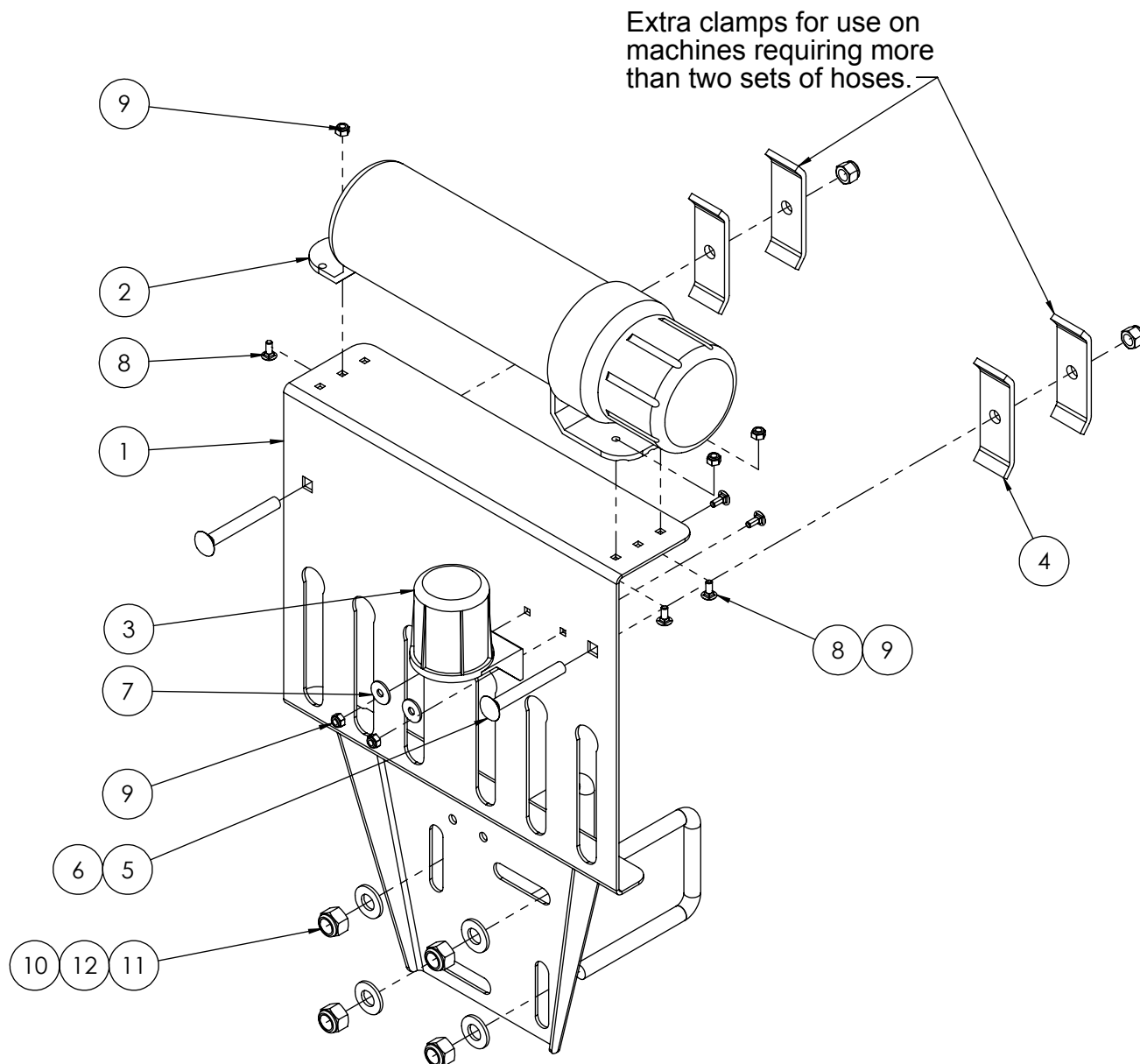
OPTIONAL
CAT 5 CLEVIS
(KCPPI-53XL)

Tongue Installation

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	P9701C	HD RTS-870-9700 CAST CLEVIS TONGUE
2	2	GP2400758A09	PIN 1 1/2" DIA. x 7 5/8" LG. - 2 HOLES
3	2	GP2400778A09	PIN 1 1/2" DIA x 7 7/8" LG. - 2 HOLES
4	4	B0830	1/2"NC x 3" HEX BOLT
5	8	BN08L	1/2" NYLOCK NUT NC
6	1	A60040	OUTER TELESCOPE 48"
7	1	A60041	570-580-860-870-9700 INNER TELESCOPE
8	1	GPH2000612A06	1 1/4" x 6 1/2" HARDENED PIN - 2 HOLES
9	2	GM30	1 1/4" MACHINE BUSHING
10	2	BSC0620	3/8" x 2" COTTER PIN
11	1	GP1600512A05	PIN 1" DIA. x 5 1/2" LG. - 2 HOLES
12	2	BF16S	1" SAE WASHER
13	2	BSC0515	5/16" x 1 1/2" COTTER PIN
14	1	A50010	TURNBUCKLE
15	2	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
16	2	BSC0415	1/4" x 1 1/2" COTTER PIN
17	1	PPI-42XL	CAT 4 CAST IRON HITCH
18	1	PPI-30XL	CAT #3 CAST CLEVIS
19	1	PPI-208VR	CLEVIS FOR CAT 3 HITCH
20	1	B1255H	3/4" x 5 1/2" HEX BOLT GR. 8
21	2	BF12HS	3/4" HARD STRUCTURAL WASHER
22	1	BN12S	3/4" STOVER LOCK NUT
23	1	PP53XL	CAT #4-5 CAST CLEVIS
24	2	B1680H	1" x 8" NC HEX BOLT GR. 8
25	4	BF16HS	1" HARD STRUCTURAL WASHER
26	2	BN16L	1-8 NC NYLOCK NUT
27	1	GJ8002	8000 LB TONGUE JACK
28	1	GJ652027	20,000 LB SAFETY CHAIN
29	1	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
30	1	GHP11	#11 HAIR PIN
31	1	GF641	1/4"-28NF GREASE FITTING
32	1	A60096A	TELESCOPE MOUNT HOSE HOLDER ASSEMBLY
33	2	BU0830	1/2" x 3" x 4 1/4" U-BOLT
34	4	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER

Telescope Mount Hose Holder

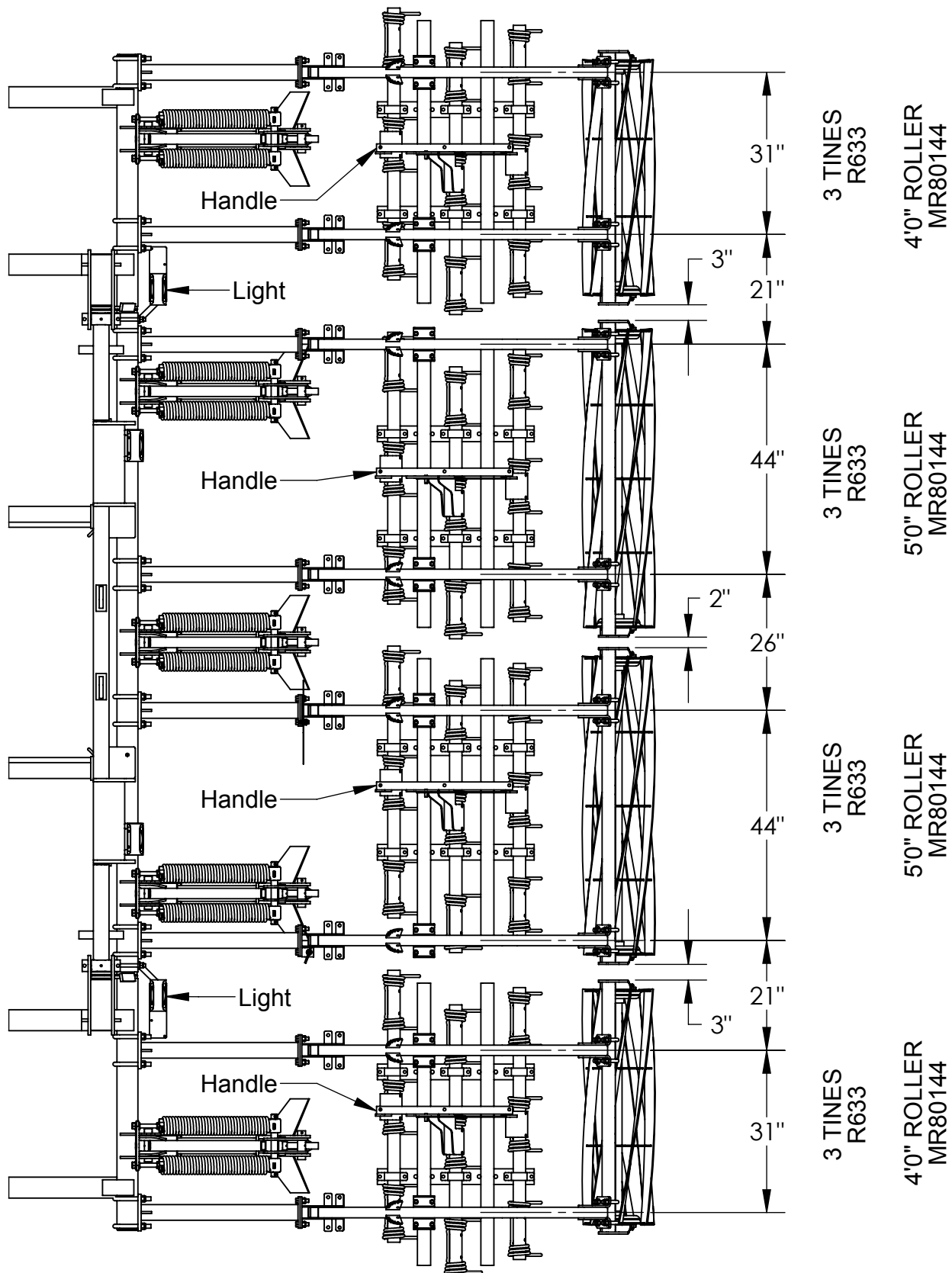
ITEM	QTY	PART NO.	DESCRIPTION
1	1	A60096	TELESCOPE MOUNT HOSE HOLDER
2	1	G106	HD OPERATORS MANUAL HOLDER
3	1	GL11750	LIGHT PLUG HOLDER - PLASTIC
4	4	P0160B	HOSE CLAMP 4"
5	2	BC0630	3/8"NC x 3" LG. CARRIAGE BOLT
6	2	BN06L	3/8"-16NC LOCK NUT
7	2	BF04	1/4" FLATWASHER
8	5	BC0205	10-24 x 1/2" A307A LOW CARBON 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



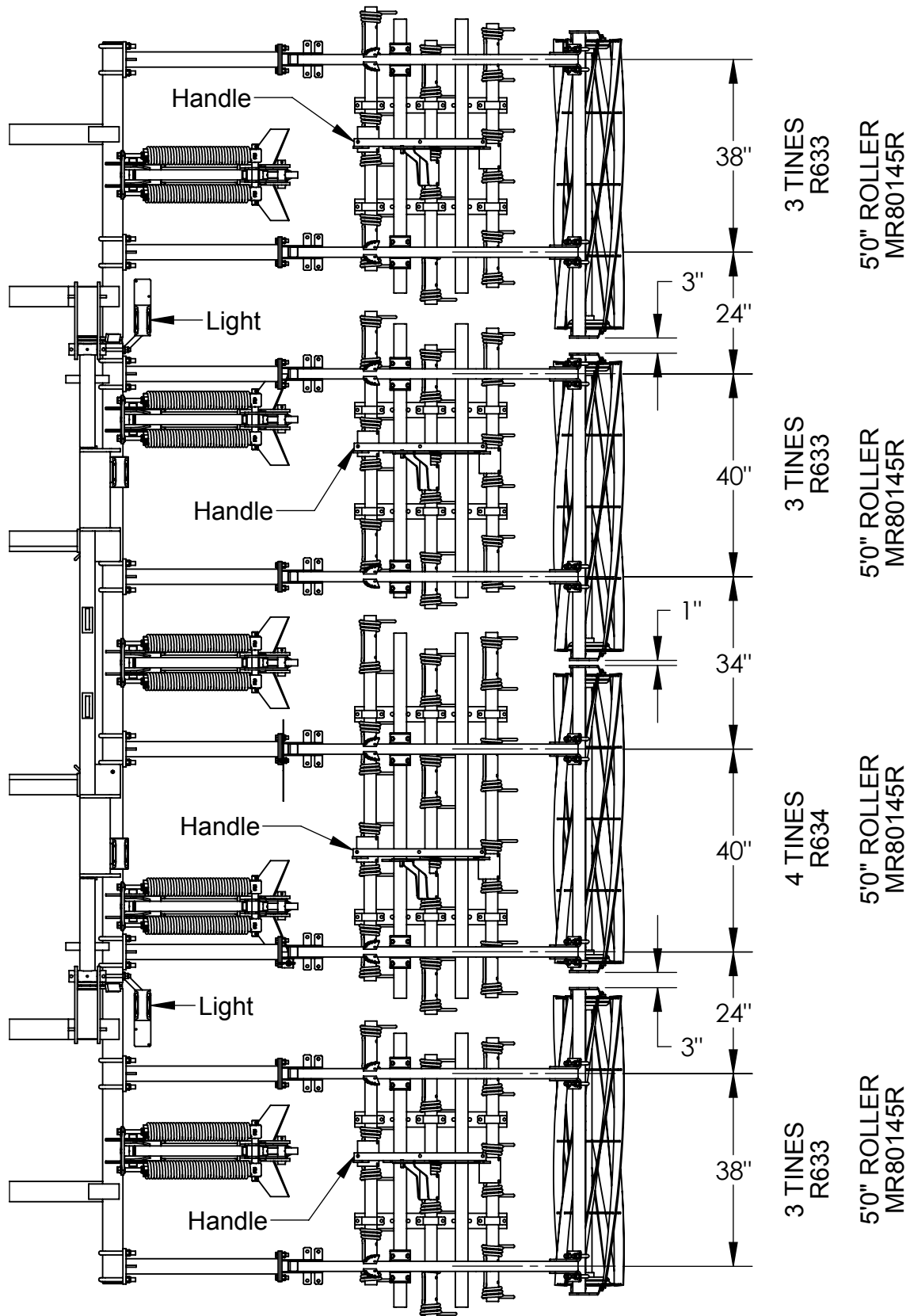
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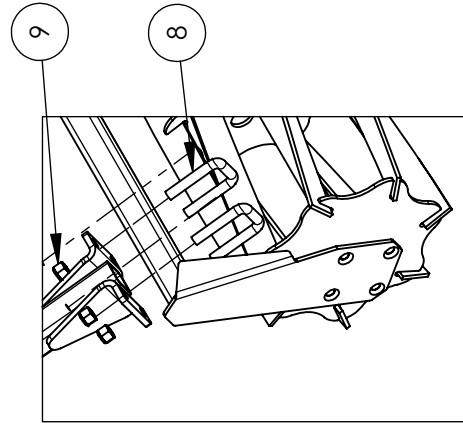
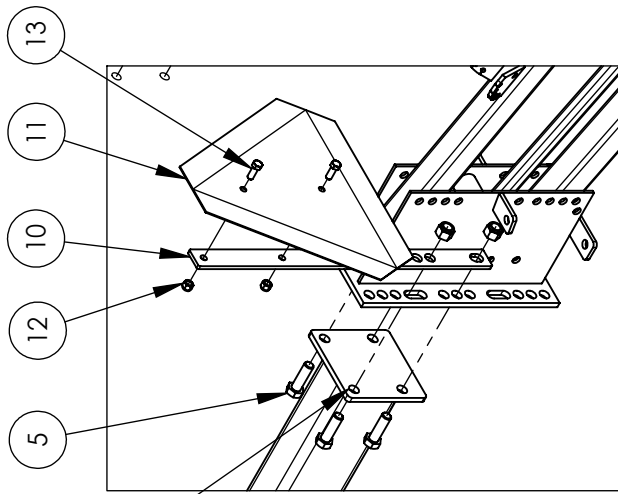
Harrows

9713 Folding Harrow Layout

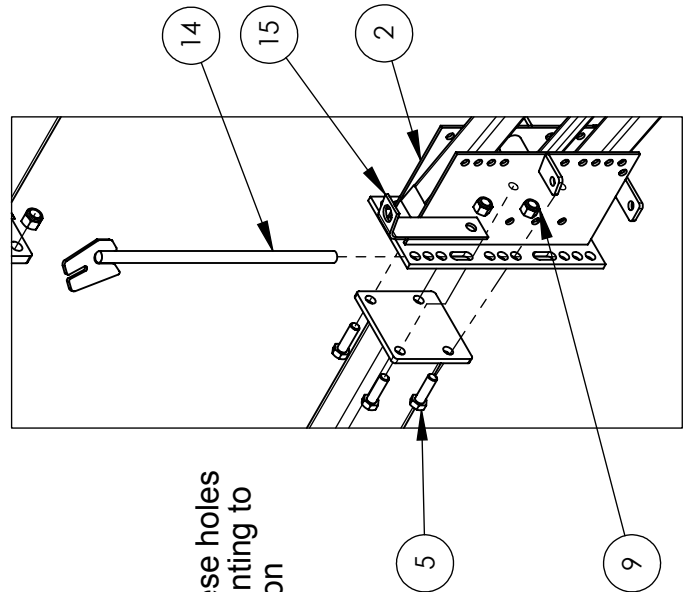
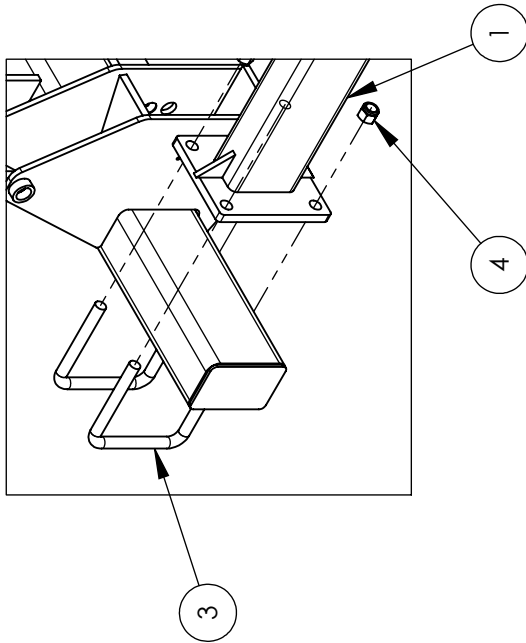


9715 Folding Harrow Layout

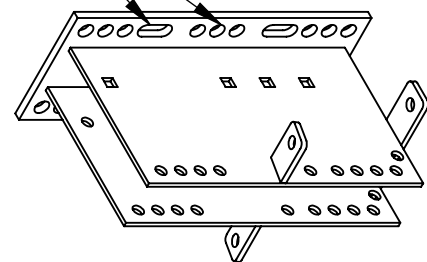
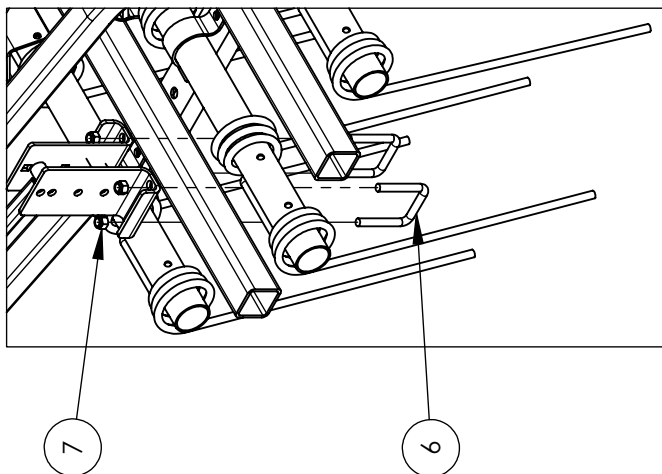




Mount extensions so that holes closer to the edge are at the top.



Use these holes for mounting to extension

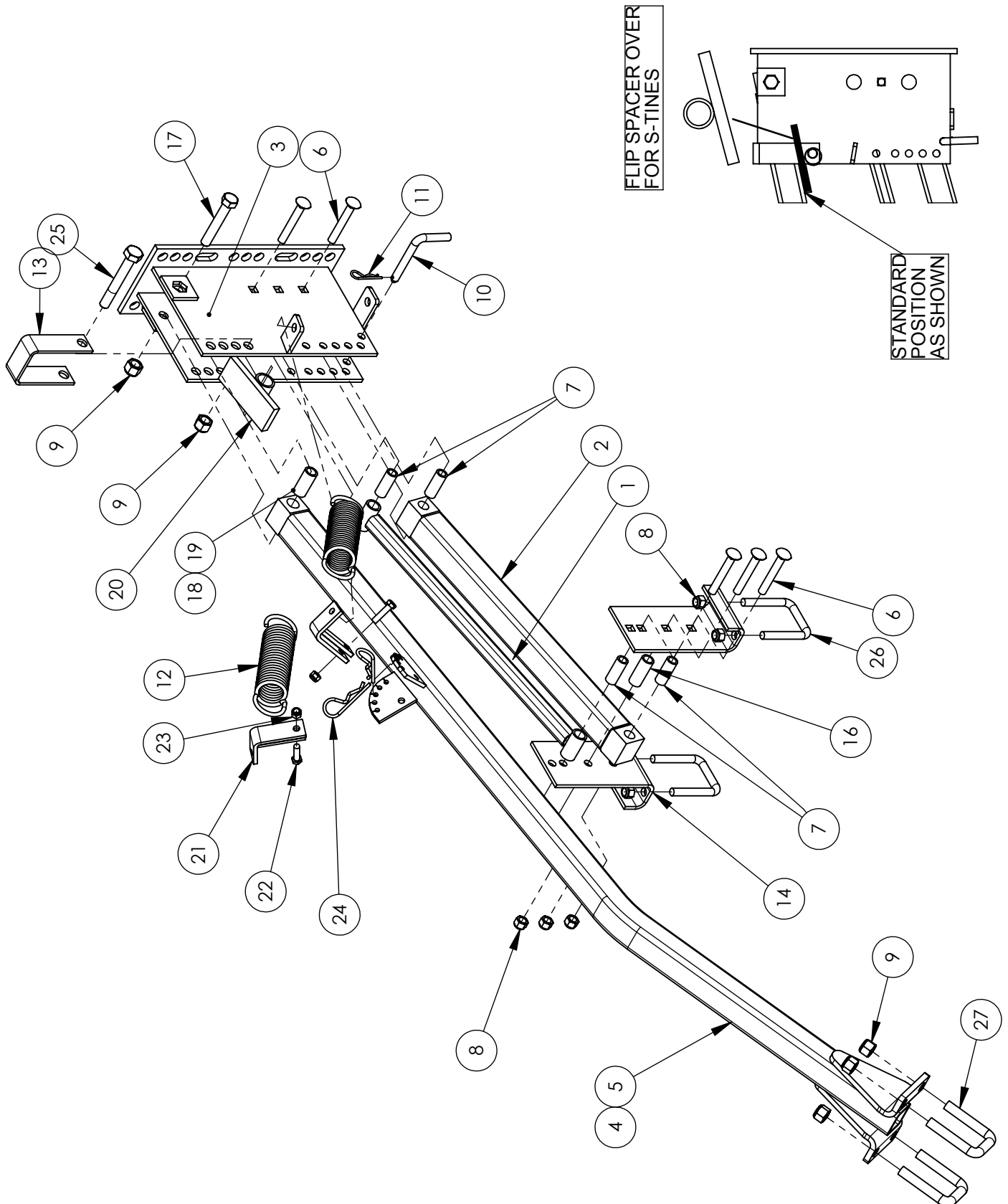


Harrow Installation

ITEM NO.	PART NO.	DESCRIPTION
1	R80008	30" HARROW MOUNTING EXTENSION BRACKET
2	RB1091	62" HARROW ARM ASSEMBLY
3	BU1260	3/4" x 6 x 6 1/2" U-BOLT
4	BN12L	3/4" NC NYLOCK NUT
5	B1020	5/8"NC x 2" HEX BOLT
6	BU0825	1/2" x 2 1/2 x 3 1/2 U-BOLT
7	BN08L	1/2" NYLOCK NUT NC
8	BU1020	5/8" x 2 x 3 1/2" U-BOLT
9	BN10L	5/8" NYLOCK NUT NC
10	C1011	SMV MOUNTING BRACKET
11	GAP103NS	SMV SIGN
12	BN06L	3/8"-16NC LOCK NUT
13	B0610	3/8 X 1" PLATED BOLT GR.5
14	RB0025	TOOL,HARROW TIGHTENER
15	RB0026	HOLDER,HARROW TOOL

1. Install 30" extensions (1) following centreline spacing on harrow layouts. Mount extension so that holes closer to the edge are pointing upwards. Retain extension with 3/4" x 6" x 6 1/2" U-bolts (3) and 3/4" locknuts (4).
2. Attach harrow arm assemblies (2) to extensions. Centre hole of harrow head lines up with bottom hole of extension. Retain harrow heads with 5/8" x 2" hex bolts (5) and 5/8" locknuts (9) at all locations except for light mounting brackets.
3. On harrow arm just left of centre, insert SMV sign mounting bracket (10) between plate and nuts. Attach SMV sign (11) to bracket with 3/8" x 1" hex bolts (13) and 3/8" locknuts (12). Mount harrow tool holder (15) between plate and nut on far left hand head of 9705 - 9715 rigid machines, or on leftmost head on main frame on 9713 & 9715 folding machines. Harrow tool (14) sits in holder.
6. Mount tine harrow assemblies to arm assemblies with 1/2" x 2 1/2" x 3 1/2" U-bolts (6) and 1/2" locknuts (7). See harrow layouts for tine assembly part numbers and locations.
7. Mount rollers to arm assemblies with 5/8" x 2" x 3 1/2" U-bolts (8) and 5/8" locknuts (9). See harrow layouts for roller assembly part numbers and locations. Leave 1-2" (3-5cm) between fixed rollers, and 3-4" (8-10cm) between rollers on wings and roller on mainframe.

62" Harrow Arm Assembly



62" Harrow Arm Assembly

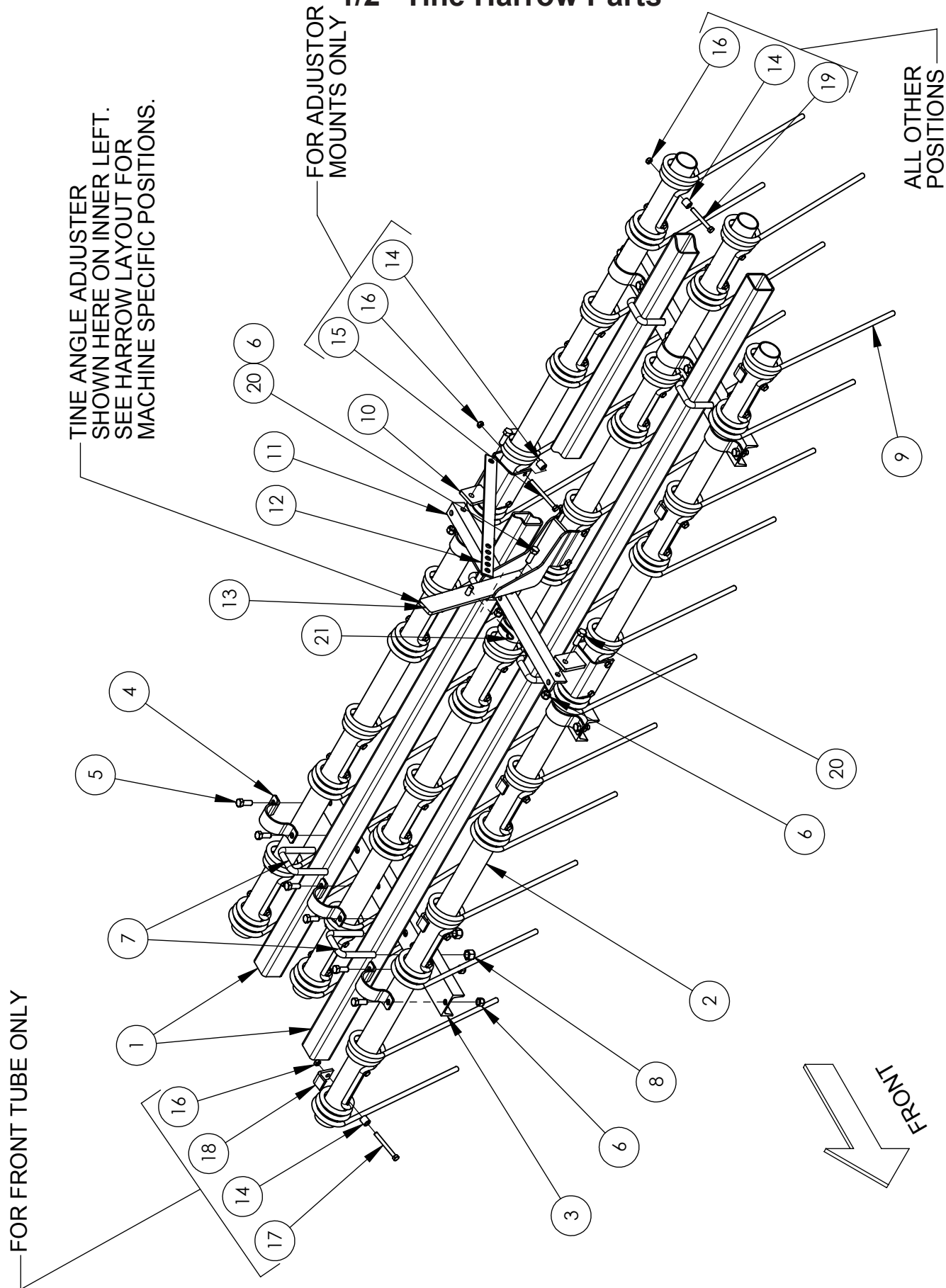
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	R30012	PARALLEL LINKAGE BAR
2	1	R30006	PARALLEL LINKAGE ARM
3	1	R80099	HEAD,SALFORD HARROW FOR 5/8" UPPER PIVOT BOLT
4	1	R80100	62" HARROW ARM FOR 5/8" PIVOT AND U-BOLTS
5	1	R80100A	62" HARROW ARM W/ KIT (REPLACES RB1125)
6	5	BC0835H	1/2" X 13NC X 3-1/2" LG. CARRIAGE 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 Parts



1/2" Tine Harrow Parts

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)

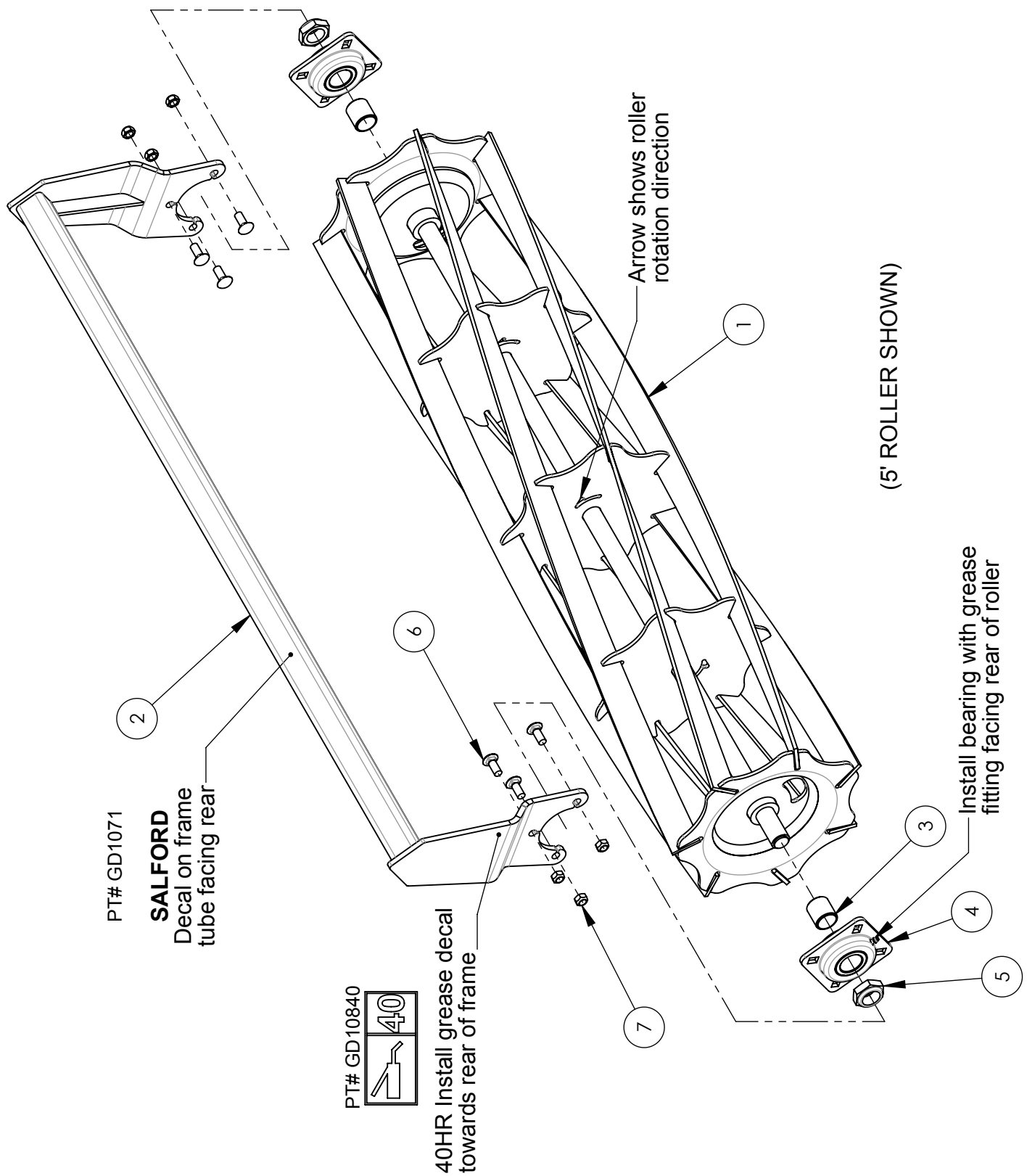
1/2" - 6 TINE HARROW ASSEMBLY PART NO. R636

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 Harrow Parts



14" Roller Harrow Parts

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

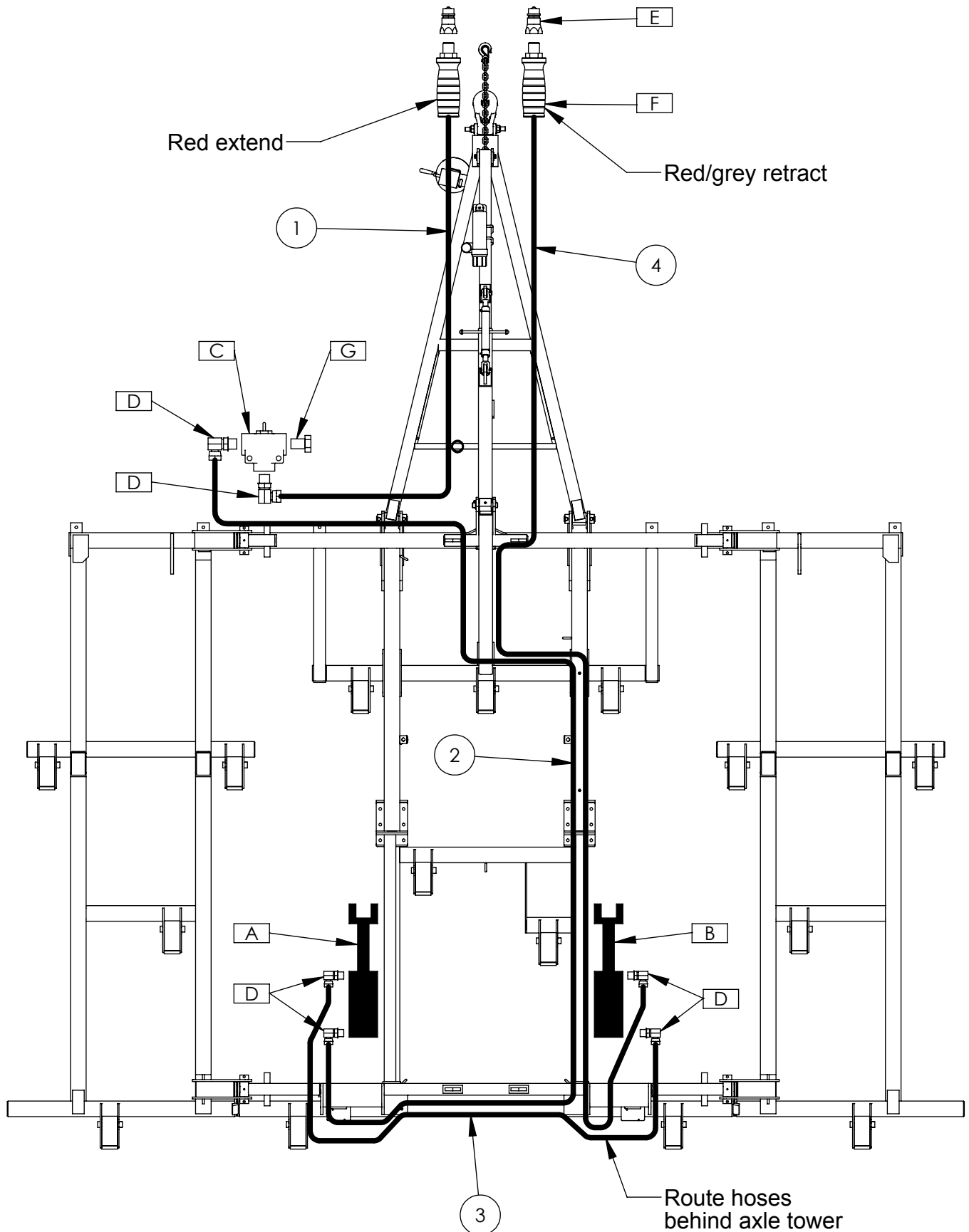
14" ROLLER HARROW ASSEMBLY - 6' 2" (187.9) LONG

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 & Electrical

Axle Lift Hydraulics



Axle Lift Hydraulics

HARDWARE			
ITEM NO.	QTY	PART NO.	DESCRIPTION
A	1	HSR5012	5" BORE x 12" STROKE HYD. CYLINDER
B	1	HSR4512	4 1/2" BORE x 12" STROKE HYD. CYLINDER
C	1	HPMSC10	STROKE CONTROL VALVE
D	6	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW
E	1	H80104P	1/2" NPT MALE PIONEER COUPLER
F	1	HG-PT22E22R21R	RED EXTEND - RED/GREY RETRACT PLASTIC HOSE GRIPS
G	1	H89008	-08 METAL O-RING PLUG

HOSES					
LABEL	QTY	LENGTH		FROM	TO
		inches	cm		
1	1	18'4"	559	TRACTOR	STROKE CONTROL VALVE
2	1	23'	701	STROKE CONTROL VALVE	HSR5012 BARREL END
3	1	9'	290	HSR5012 ROD END	HSR4512 BARREL END
4	1	31'	976	HSR4512 ROD END	TRACTOR

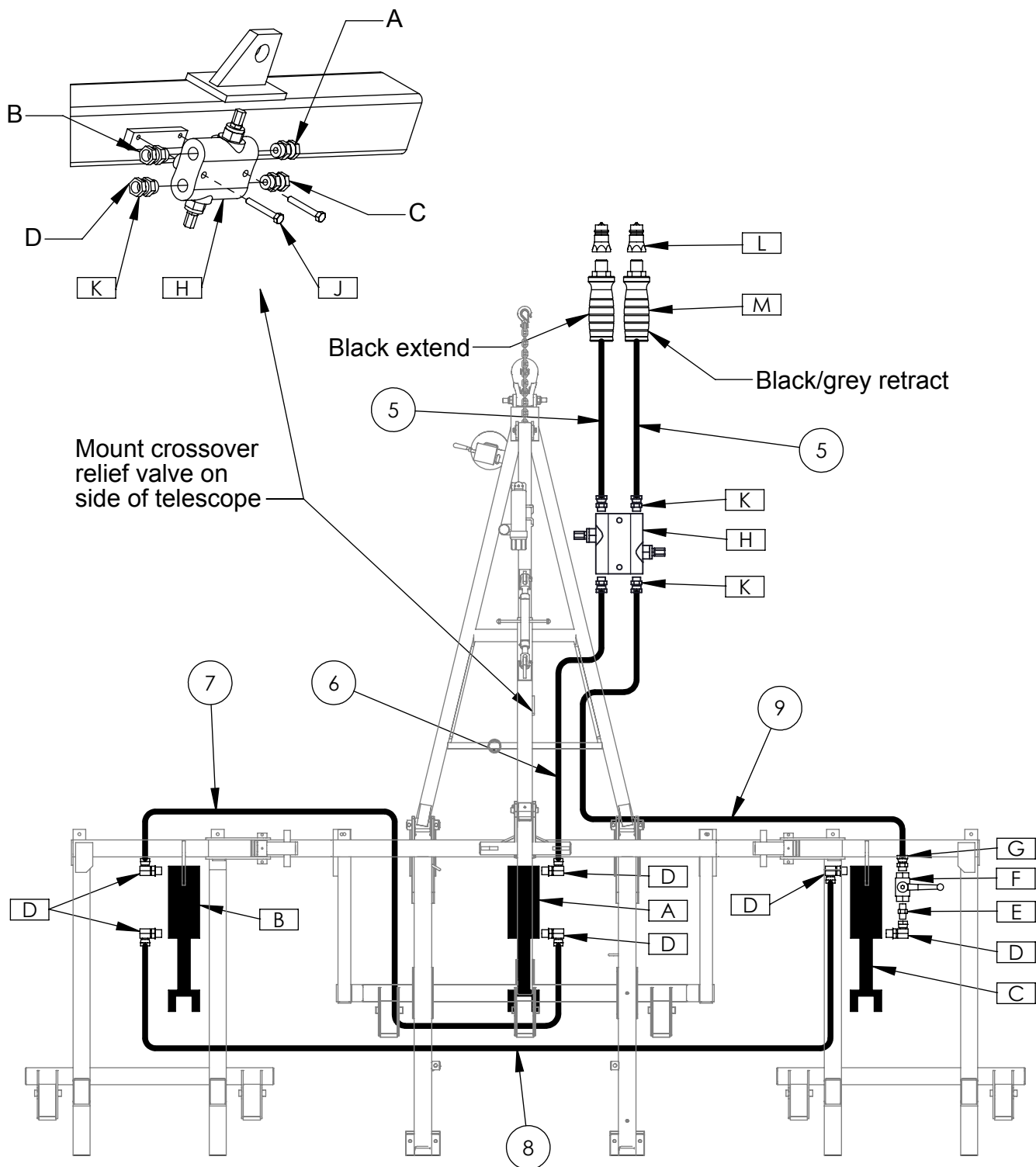
CHARGING THE CIRCUIT

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

Connect only the hoses to the tractor until the circuit is charged. Be sure parking stand is properly engaged before beginning.

1. Be sure that all cylinders can extend completely without striking anything
2. Connect hoses to tractor.
3. Extend cylinders slowly and hold lever for 2-3 minutes. This will purge air from the circuit (each lift cylinder has an internal valve, which allows oil to by-pass only when completely extended)
4. The circuit is now free from air. Install rod end pins.

9713/9715 Folding Disc Gang Hydraulics



9713/9715 Folding Disc Gang Hydraulics

HARDWARE			
ITEM NO.	QTY	PART NO.	DESCRIPTION
A	1	HCR3708	MONARCH 3 3/4" x 8" REPHASING CYLINDER
B	1	HCR3508	MONARCH 3 1/2" x 8" REPHASING CYLINDER
C	1	HCR3208	MONARCH 3 1/4" x 8" REPHASING CYLINDER
D	6	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW
E	1	H915066	-06 ORB TO -06 NPT NIPPLE
F	1	HV1130	3/8" BALL VALVE, 2-WAY
G	1	H930566	-06M ORB TO -06F NPT SWIVEL
H	1	HV1105C	CROSS-OVER RELIEF VALVE
J	2	B0522	5/16"NC x 2 1/4" LG. HEX BOLT
K	4	H930586	-08M ORB TO -06F NPT SWIVEL
L	2	H80104P	1/2" NPT MALE PIONEER COUPLER
M	1	HG-PT23E23R21R	BLACK EXTEND - BLACK/GREY RETRACT PLASTIC HOSE GRIPS

HOSES					
LABEL	QTY	LENGTH		FROM	TO
		inches	cm		
5	2	12'	366	TRACTOR	RELIEF VALVE
6	1	5'	152	RELIEF VALVE 'B'	HCR3708 BARREL END
7	1	8'5"	257	HCR3708 ROD END	HCR3508 BARREL END
8	1	16'8"	508	HCR3508 ROD END	HCR3208 BARREL END
9	1	11'	335	HCR3208 ROD END	RELIEF VALVE 'D'

CHARGING THE CIRCUIT

When first using machine, or anytime that air could have entered into the system, it is necessary to remove the air from the system.

1. Connect Tractor.
 2. Open Ball Valve.
 3. Extend cylinder completely and hold lever for 30 seconds as air exits cylinder.
 4. Close cylinder completely and hold lever for 30 seconds.
 5. Repeat steps 3 and 4 three times.
- The system is now free from air.

When machine is not in use, close ball valve.

The **Cross-Over Relief Valve** is Preset for average working conditions.

The Valve will allow oil to bypass if the Disc Gang cylinders see excessive force. This could be from passing over a large rock, a sharp hill, etc.

Should the oil bypass, the cylinders will retract until the pressure spike is relieved. The operator will need to lower the disc back into position from the tractor.

Cross Over Relief Valve Settings

CHECK THAT BOTH SIDES OF RELIEF VALVE HAVE BEEN PROPERLY SET



IMPORTANT

RELIEF VALVE MUST BE SET
FOR HYDRAULIC SYSTEM TO
MAINTAIN PROPER PRESSURE

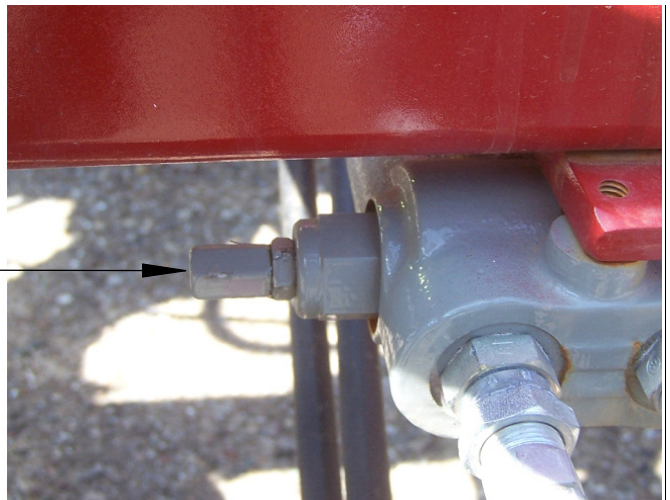
REMOVE CAP



TIGHTEN ADJUSTMENT
SCREW ALL THE WAY, THEN
TURN OUT SCREW 2 FULL TURNS

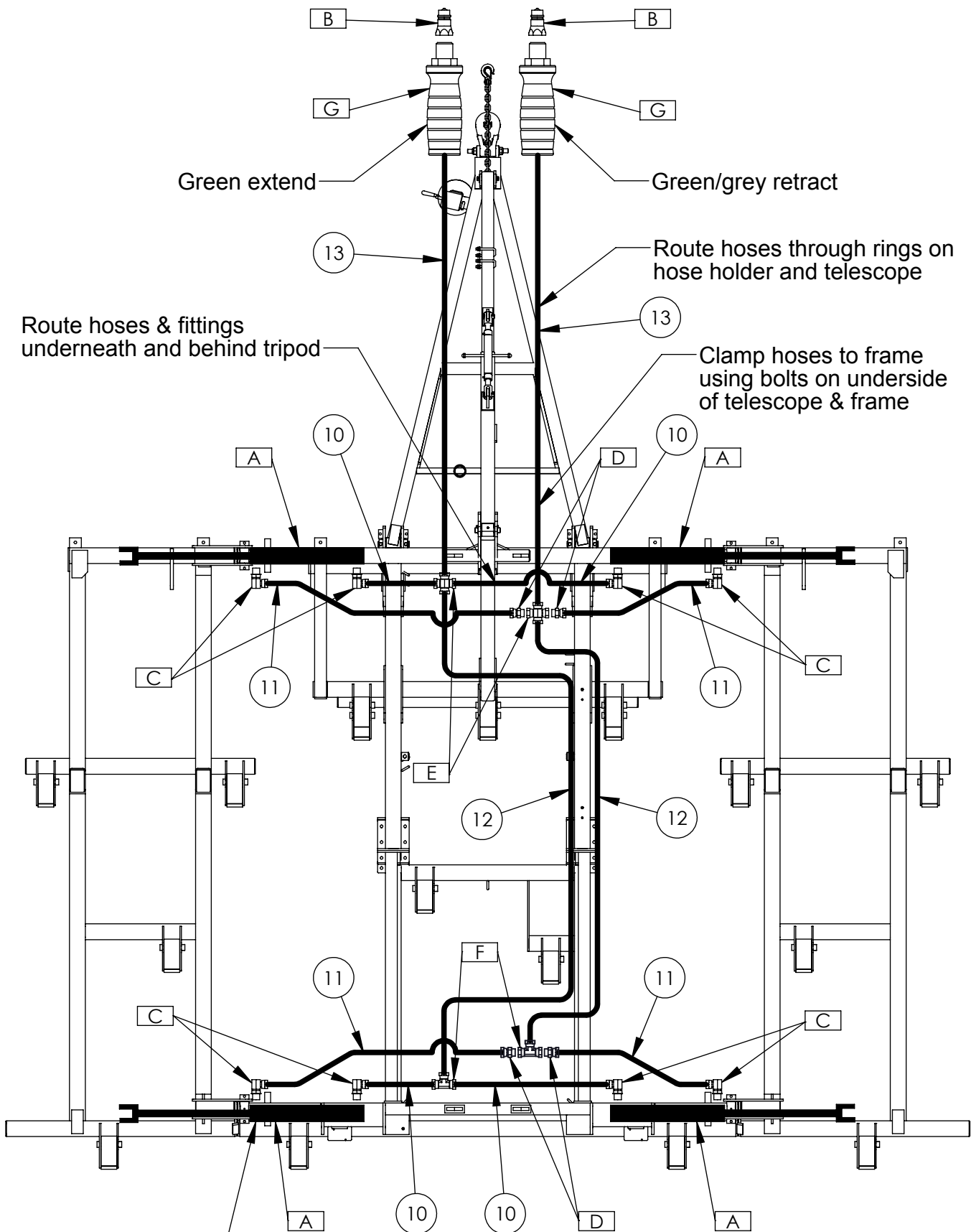


REPLACE CAP



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9700 Wing Fold Hydraulics



Rod end fittings must be on top of cylinder or they will get crushed!

9700 Wing Fold Hydraulics

HARDWARE			
ITEM	QTY.	PART NO.	DESCRIPTION
A	4	HS3524	3 1/2" BORE x 24" STROKE HYD. CYLINDER
B	2	H80104P	1/2" NPT MALE PIONEER COUPLER
C	8	H951586	-08 ORB TO -06 NPT SWIVEL ELBOW
D	4	H1404665	-06M NPT TO -06F NPT RESTRICTOR .055"
E	2	HT06SC	-06F NPT ALL SWIVEL CROSS
F	2	H956666	-06F NPT ALL SWIVEL TEE
G	1	HG-PT24E24R21R	GREEN EXTEND & GREEN/GREY RETRACT HOSE GRIPS

HOSES					
LABEL	QTY.	LENGTH		FROM	TO
		inches	cm		
10	4	3'	91	RESTRICTOR	HS3524 BARREL END
11	4	4'	122	RESTRICTOR	HS3524 ROD END
12	2	15'6"	472	CROSS	TEE
13	2	15'	457	TRACTOR	CROSS

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.

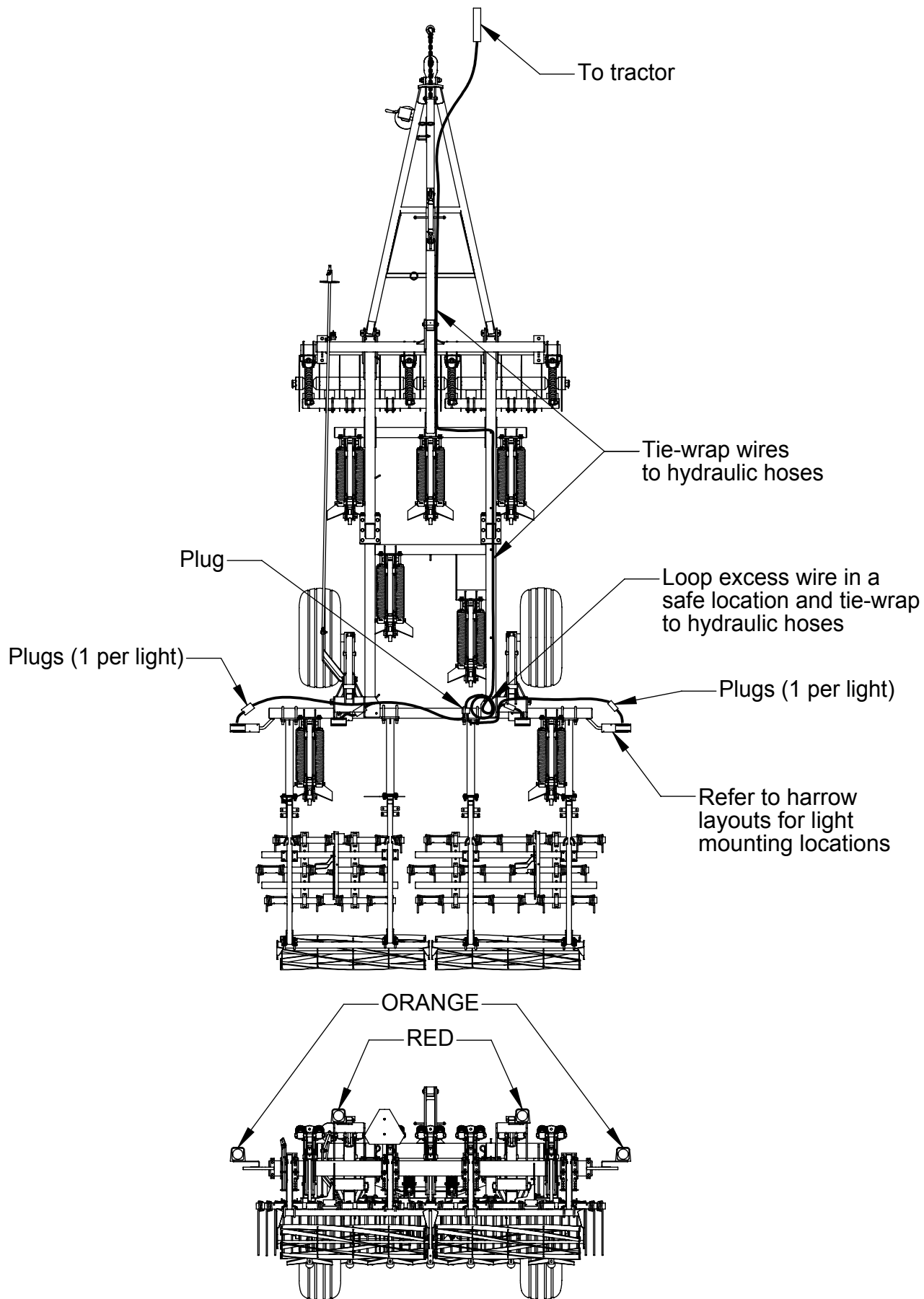


DANGER

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.

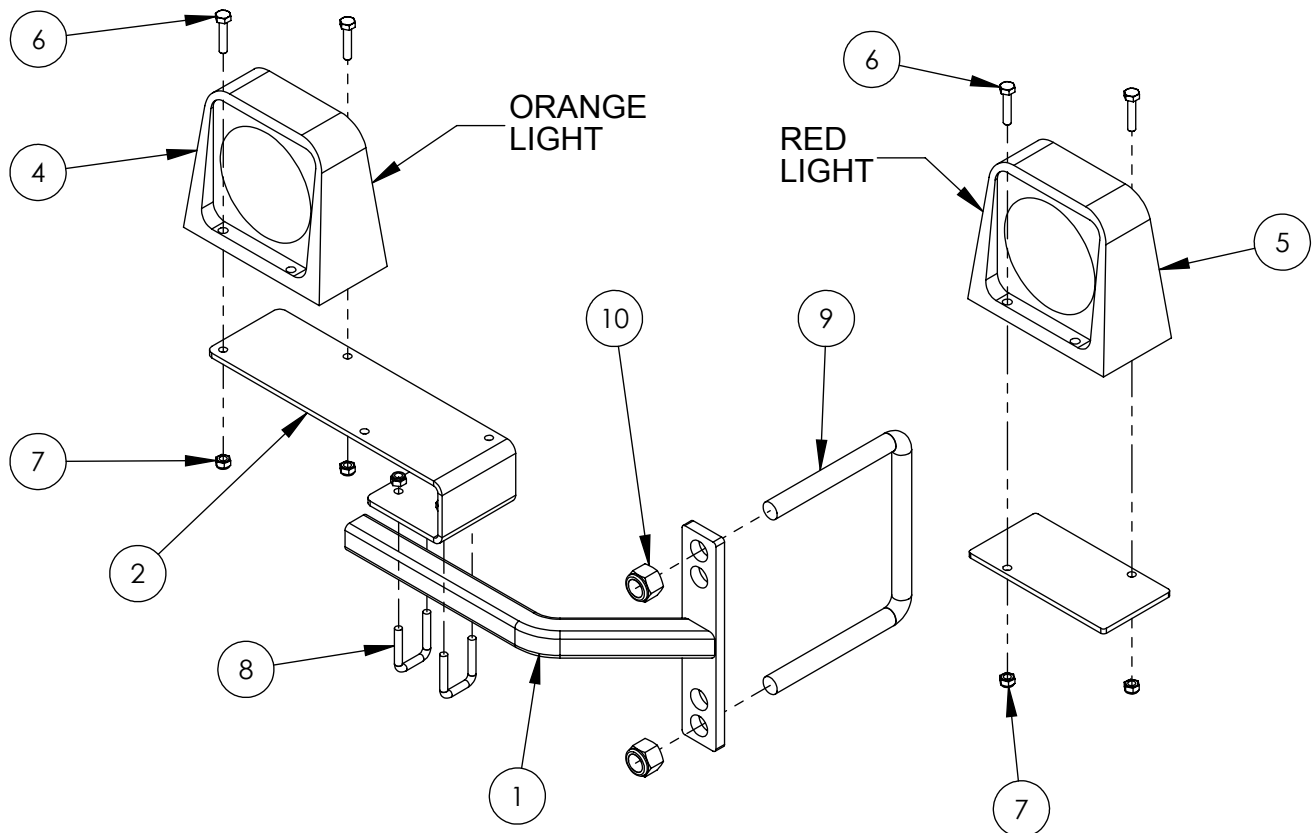
Never work on a lift system with the wings folded!!! ALWAYS UNFOLD WINGS before working on hydraulics!!

Light Kit Installation



Light Kit Installation

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	A60055	LIGHT BRACKET (SHORT)
2	2	L00425	OUTSIDE LIGHT MOUNTING PLATE
3	1	GL767762	SALFORD WESBAR LIGHT KIT
4	2	GL767762-AA	ORANGE LIGHT
5	2	GL767762-R	RED LIGHT
6	8	B0412	1/4"NC x 1 1/4" HEX BOLT
7	16	BN04L	1/4" LOCK NUT
8	4	BU0410	1/4 x 1" x 1 1/2" U-BOLT
9	2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
10	4	BN10L	5/8" NYLOCK NUT NC



Mount light brackets to machine as shown on harrow layout. Red lights mount to axle towers, and orange lights mount to rear corners of machine.

Connect wiring harness and route and tie-wrap wires along hydraulic hoses. Loop excess wire in a safe place and tie-wrap to hoses. Note: wire for left light is marked with a yellow "LEFT" sticker.



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