



I-2100-36'-41' Assembly & Parts Manual 2013
Manual #: MNPI-21-36413-13D

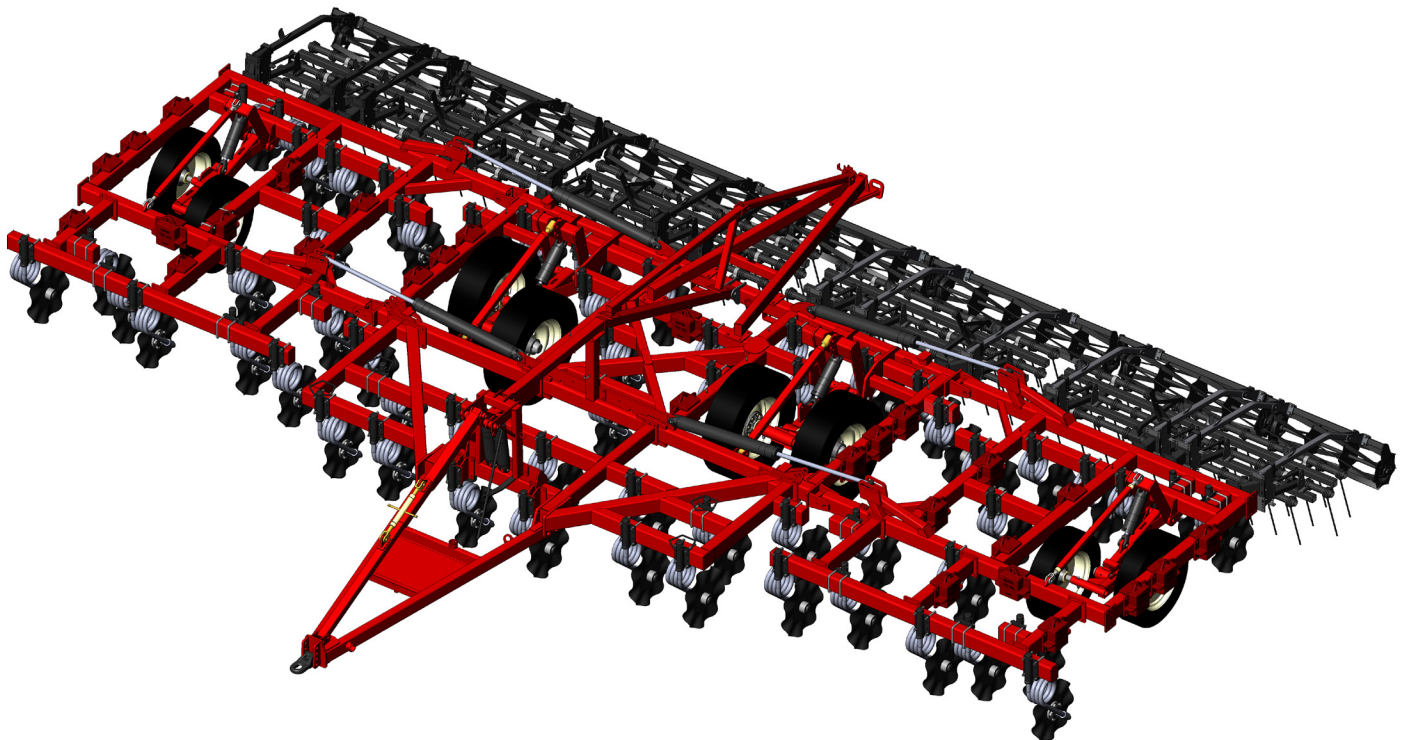


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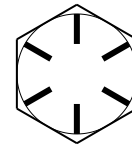
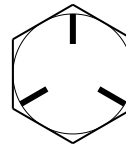
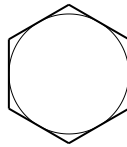
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Salford Recommended Torque Values



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

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

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

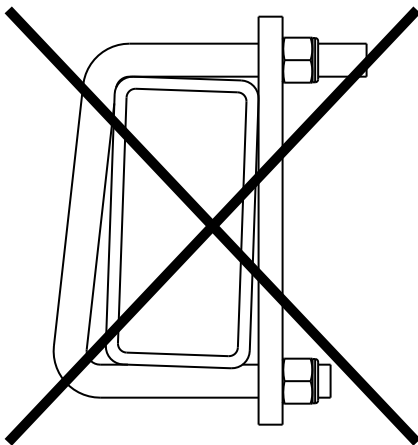
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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

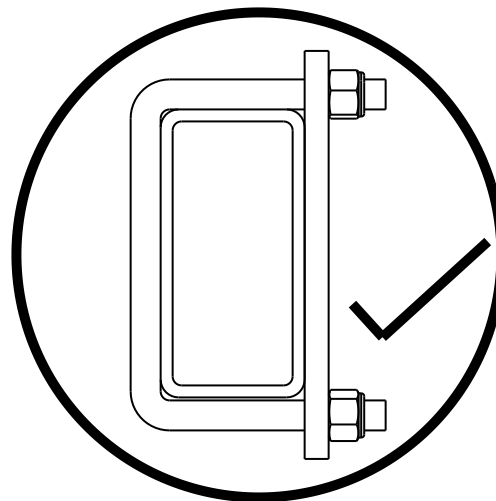
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

WARNING

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



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



Wheel Torque Specifications



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

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

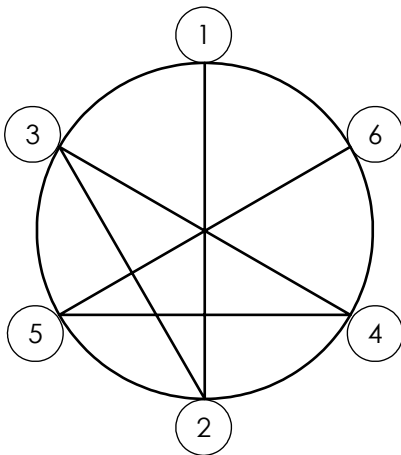
Install all lug nuts/bolts by hand to prevent cross threading and tighten lug nuts/bolts following the steps and tightening sequence diagram below.

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

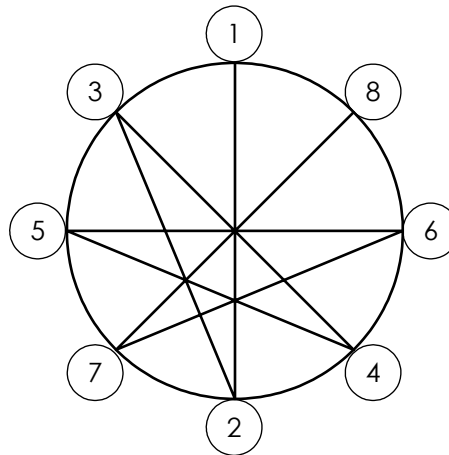
Bolt Size (Hub Size)	Final Torque
1/2" dia. bolt (up to 3000 lb hubs)	85 ft•lbs
9/16" dia. bolt (4000 - 5000 lb hubs)	120 ft•lbs
5/8" dia. bolt (5500 - 12000 lb hubs)	170 ft•lbs
3/4" dia. bolt (16000 - 20000 lb hubs)	300 ft•lbs
7/8" dia. bolt (25000 lb hubs)	450-500 ft•lbs

Lug Nut/Bolt Tightening Sequence

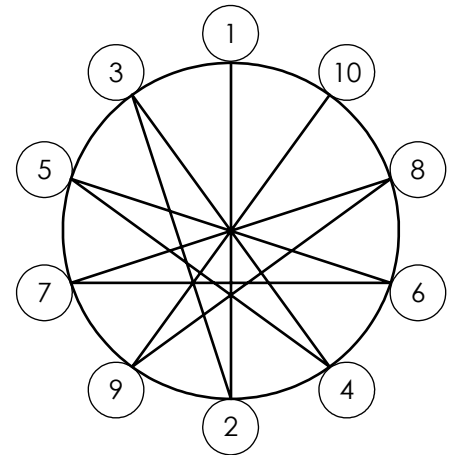
6 LUG BOLT PATTERN



8 LUG BOLT PATTERN



10 LUG BOLT PATTERN



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

Tire Pressure Ratings

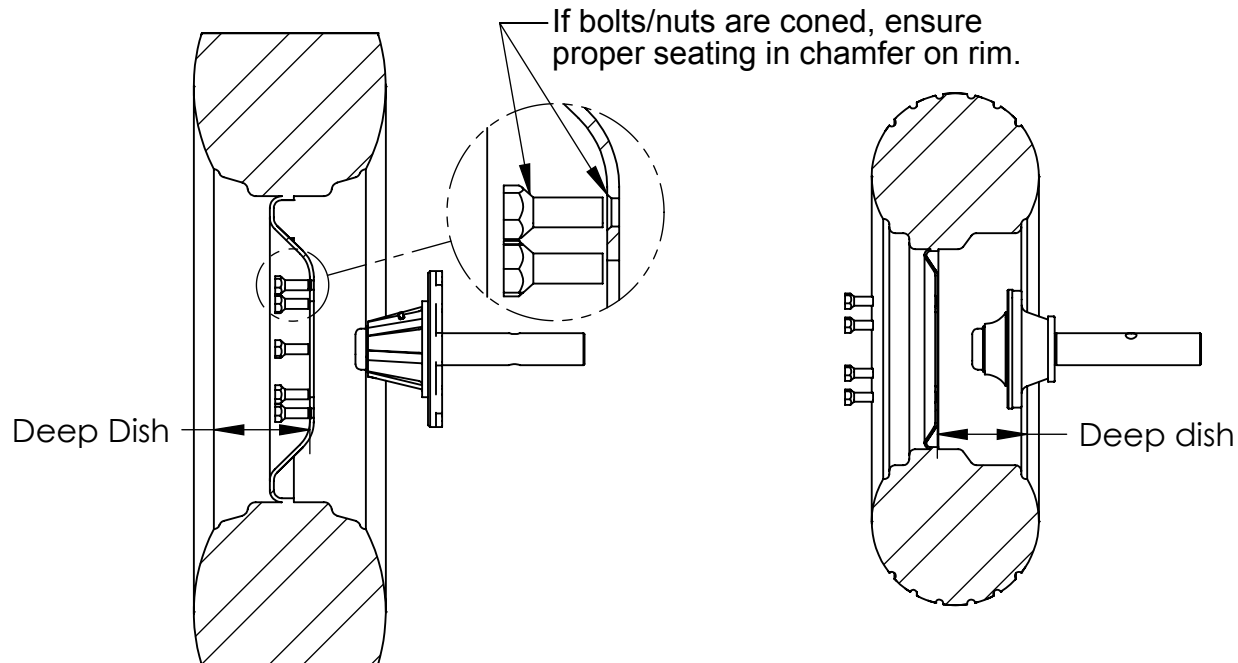
Ensure proper inflation of each tire for safe operation and extended tire life.

Pressure [psi]	Pressure [bar]	Tire Size
25 [psi]	1.72 [bar]	23.1 x 26 (16 ply)
30 [psi]	2.07 [bar]	15 x 19.5 Lug Tire (6 ply)
35 [psi]	2.41 [bar]	Load Range C - 11L15
36 [psi]	2.48 [bar]	28L26 (16 ply)
52 [psi]	3.58 [bar]	30.5LR32 (181A8/B)
65 [psi]	4.48 [bar]	Load Range D - 11L15 - 12.5L15
70 [psi]	4.83 [bar]	15 x 19.5 Lug Tire (14 ply)
73 [psi]	5.00 [bar]	340/60R16.5IMP (145A8/B)
90 [psi]	6.20 [bar]	Load Range F - 11L15 - 12.5L15 Truck Tires - 245/70R19-5 - 305/70R22-5
110 [psi]	7.49 [bar]	Truck Tires - 425/60R22-5

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

Tire Installation Direction

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



Tires to install
deep dish out:

12.5L
305
15 x 19.5
340

Tires to install
deep dish in:

11L
245
425

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

General Safety Precautions

Signal Words

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

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



DANGER

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



WARNING

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



CAUTION

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

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

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

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

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

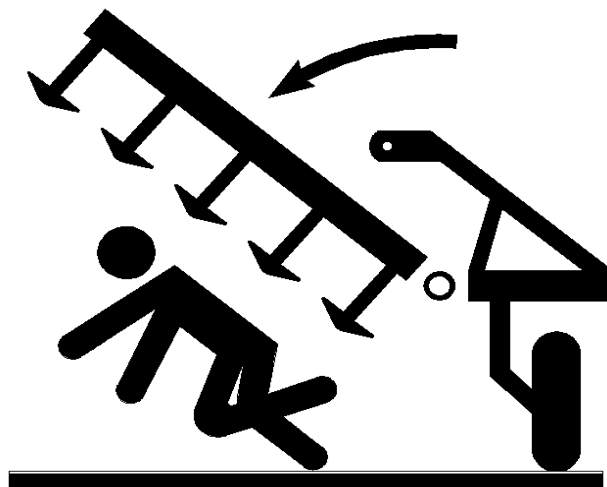
A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT !

General Safety Precautions



DANGER

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

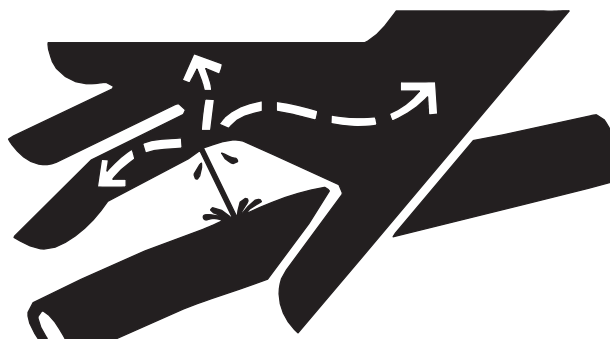


Hydraulics



DANGER

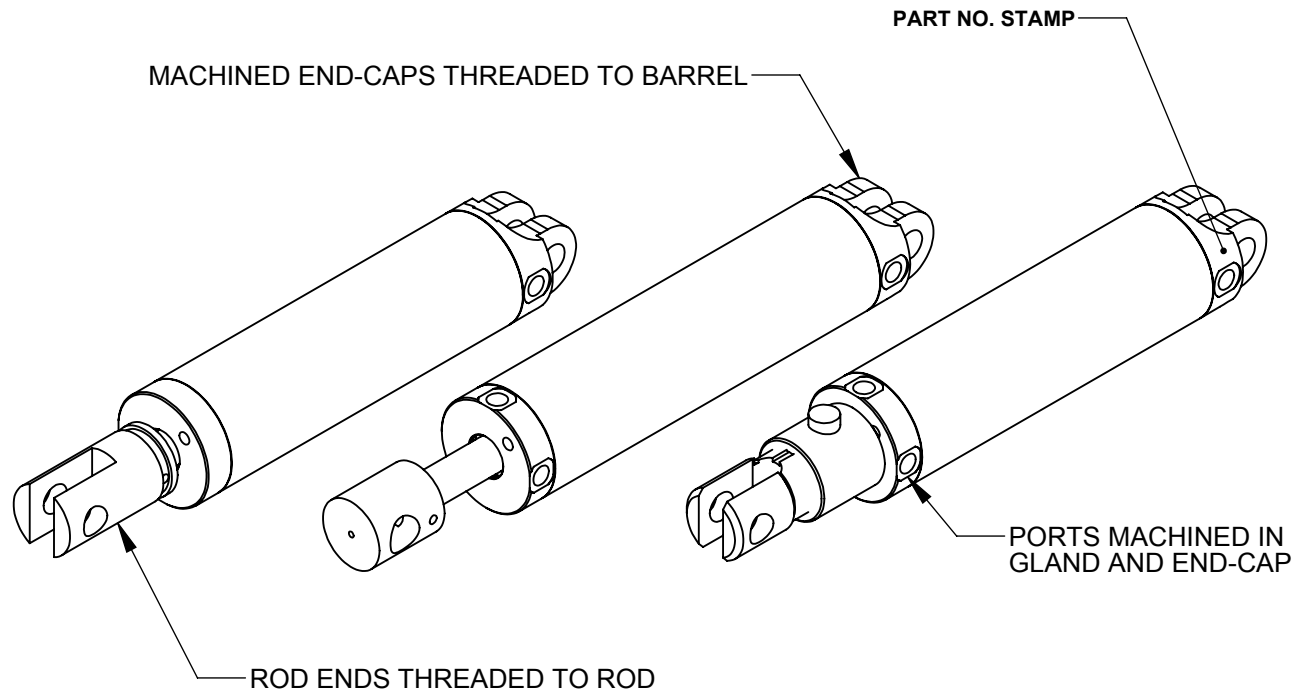
- **DO NOT** search for high pressure hydraulic leaks without hand and face protection. A tiny, almost invisible leak can penetrate skin, thereby requiring immediate medical attention.
- Use cardboard or wood to detect leaks – never your hands.
- Double check that all is clear before operating hydraulics.
- **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.



Cylinder Series Identification Guide

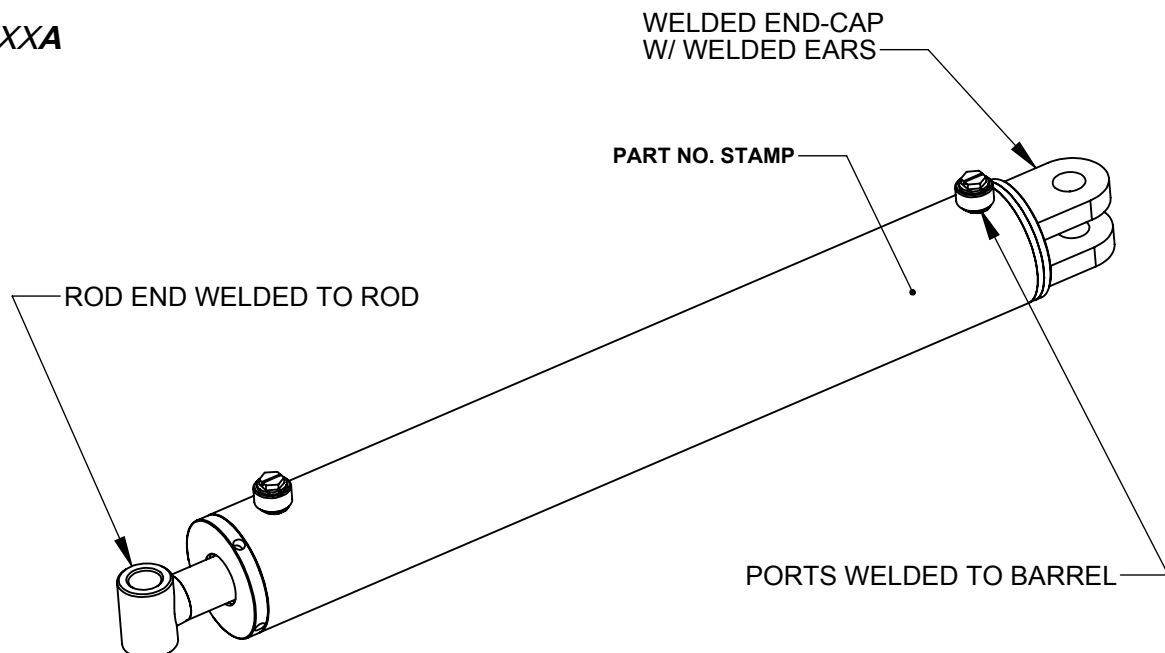
SALFORD ORIGINAL SERIES

HSXXXX AND HSRXXXX



SALFORD 'A' SERIES - WING FOLD ONLY

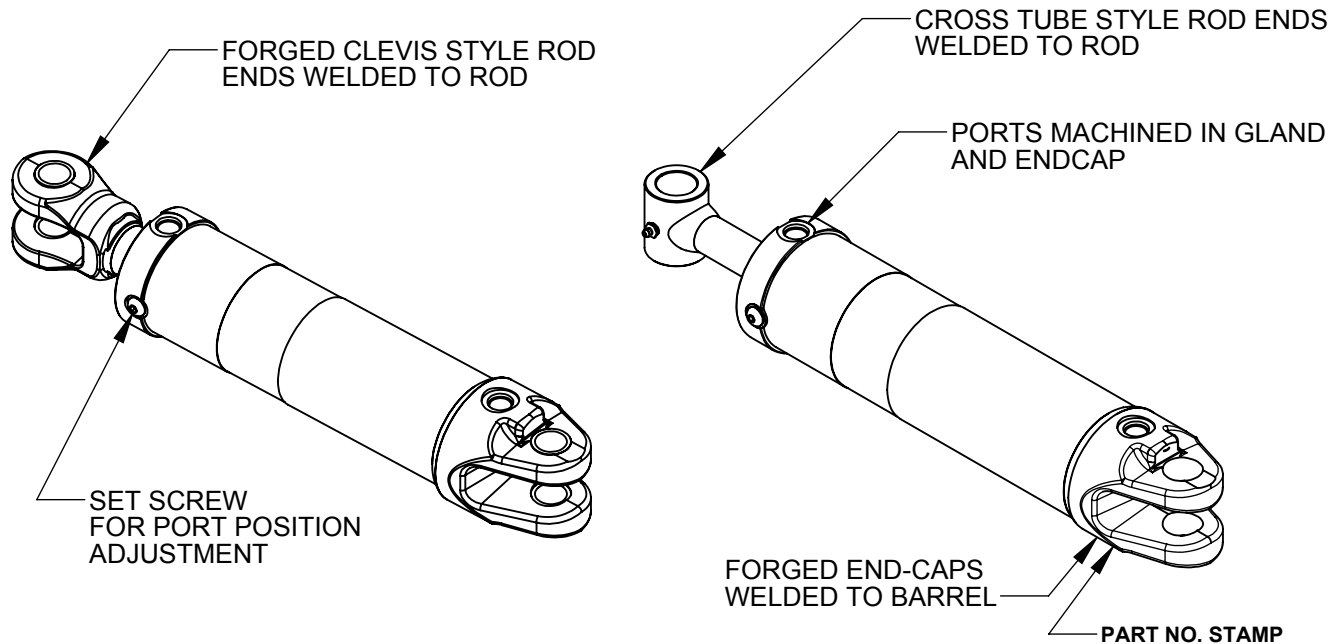
HSXXXXA



Cylinder Series Identification Guide

SALFORD 'B' SERIES*

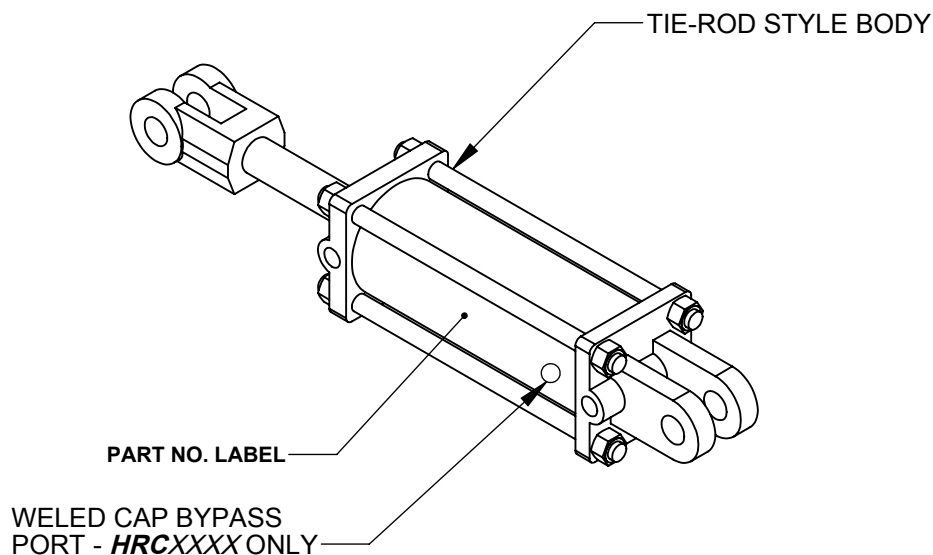
HSXXXXB AND HSRXXXXB
(MANUFACTURER PART NO. SFXXXXXX)



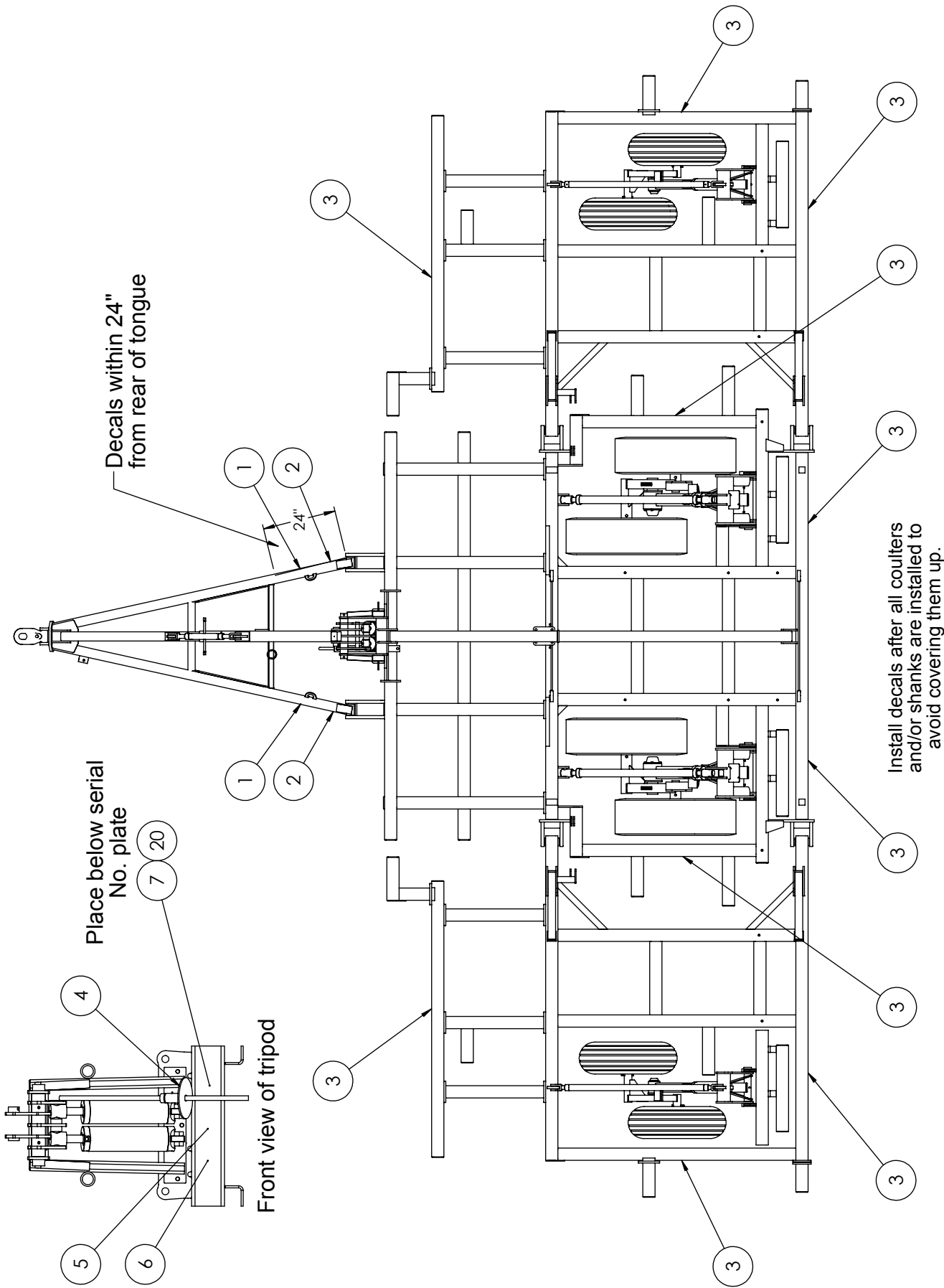
*REQUIRED 3 3/8" LONG OR LONGER PINS

SALFORD 'C' SERIES

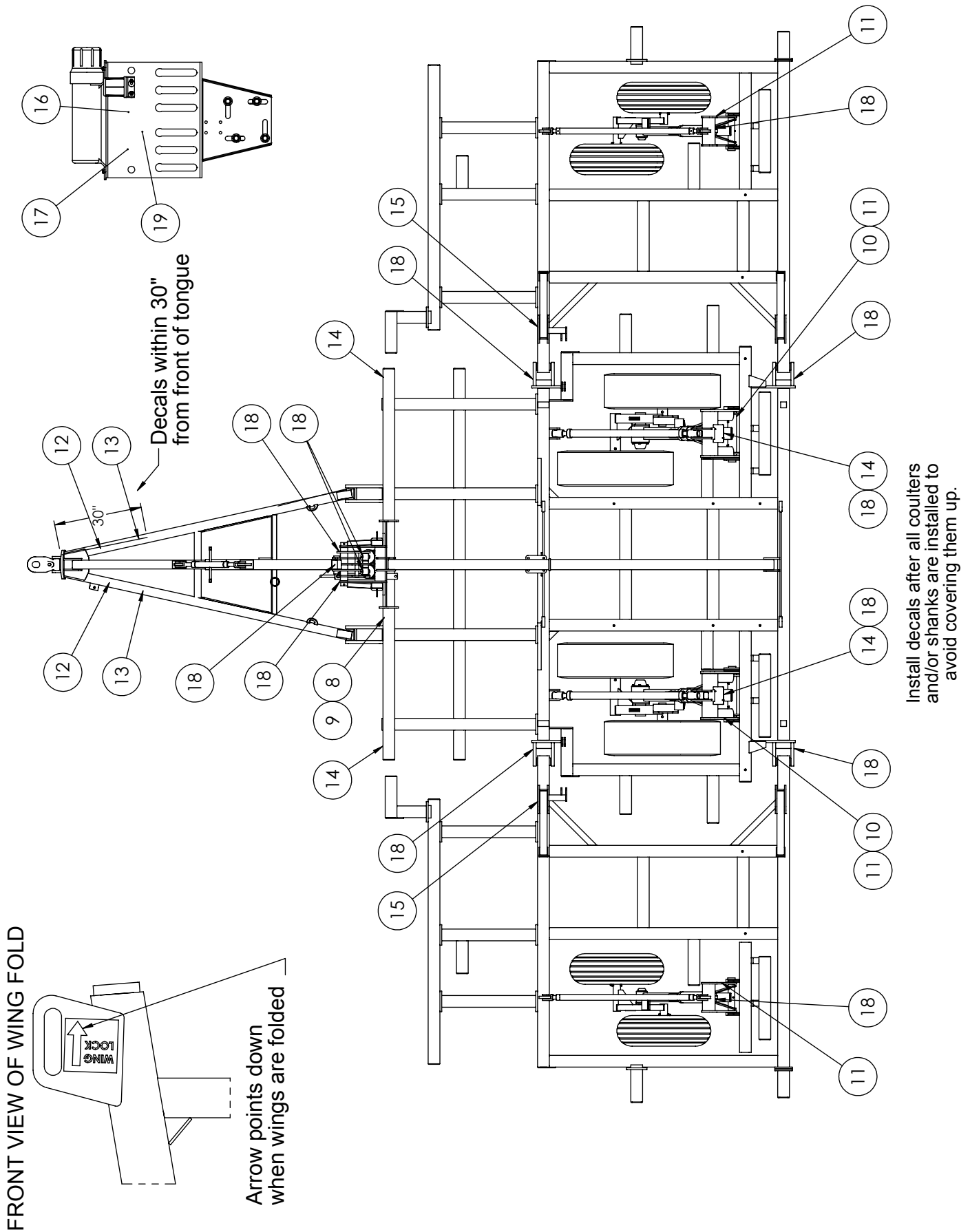
HCXXXX AND HCRXXXX
(MANUFACTURER PART NO. XXTXXX-XXX)



Decal Locations



Decal Locations



Decal Locations

ITEM	12' QTY.	18'-30' QTY.	36'-41' QTY.	PART NUMBER	DESCRIPTION
1	2	2	2	GD102	WWW. SALFORD DECAL
+ 2	2	2	2	GD224	I-1100 DECAL
				GD225	I-1200 DECAL
				GD226	I-2100 DECAL
				GD227	I-3100 DECAL
				GD228	I-4100 DECAL
				GD234	I-2200 DECAL
				GD236	I-1500 DECAL
3	4	10	10	GD100	SALFORD DECAL LARGE w/BLACK BORDER (4" HIGH X 16" LONG)
4	1	1	1	GD109	DEPTH CONTROL DECAL
5	1	1	1	GD112	ATTENTION LUBRICATE DECAL
6	0	1	1	GD110	WARNING DON'T LIFT DECAL
7	1	1	1	GD214	2 1/2" x 2 1/2" PATENT NUMBER & PATENT PENDING DECAL
8	1	1	1	GDSW116	IMPORTANT - DO NOT EXCEED THE MAXIMUM TILT
9	1	1	1	GDSW117	IMPORTANT - AVOID EXCESSIVE DEPTH for RTS HDXT
10	0	0	2	GD194	CAUTION - 305/70 R22.5, 425/65 R22.5 & 12.5L X R15 TIRE DECAL
11	2	4	2	GD193	CAUTION - 11L X 15 TIRE DECAL
12	2	2	2	GDSW2	USE PROPER TOOLS AND READ MANUAL DECAL
13	2	2	2	GDT3	DANGER STICKER FOR CRUSHING HAZARD "HITCHING IMPLEMENT TO TRACTOR PINCH POINT"
14	0	4	4	GDSW200	WARNING STICKER OVERHEAD CRUSHING HAZARD "SHOWS WING FALLING ON SOMEONES HEAD"
15	0	2	2	GD144	WING LOCK DECAL - 570
16	1	1	1	GDSW700	WARNING STICKER, ALTERNATE HIGH PRESSURE FLUID HAZARD STICKER
17	1	1	1	GDSW4	SAFE OPERATION LIST DECAL
18	6	12	12	GD10840	GREASE EVERY 40 HOURS DECAL
19	1	1	1	GD210	HOSE IDENTIFICATION DECAL
20	1	1	1	GD208	1" x 2 1/2" RTS PATENT

+DECAL VARIES WITH MACHINE

Decal Locations



GD102 (1)



Refer to table for part #'s (2)



GD100 (3)



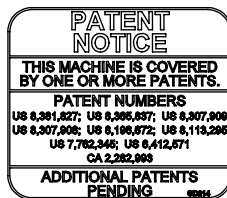
GD109 (4)



GD112 (5)



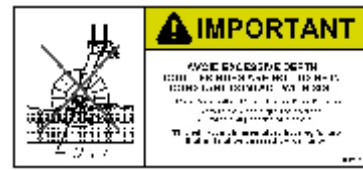
GD110 (6)



GD214 (7)



GDSW116 (8)



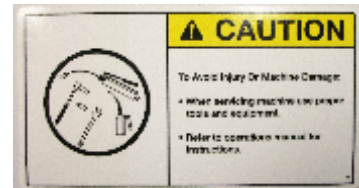
GDSW117 (9)



GD194 (10)



GD193 (11)



GDSW2 (12)



GDT3 (13)



GDSW200 (14)



GD144 (15)



GDSW700 (16)



GDSW4 (17)



GD10840 (18)

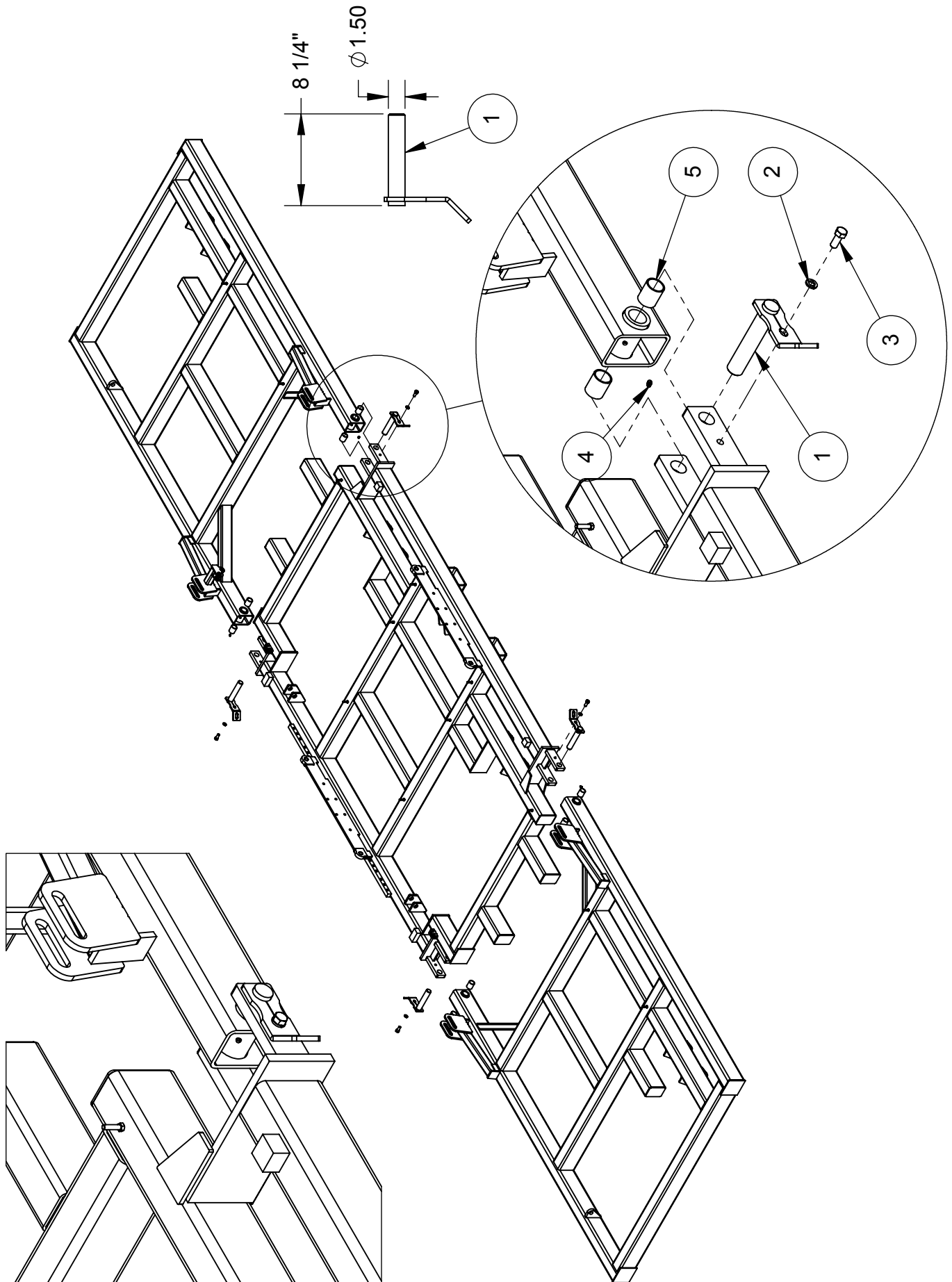


GD210 (19)



GD208 (20)

Wing Installation



Wing Installation

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	4	GPH2400814FT	1 1/2" x 8 1/4" LG. HARD PLATE PIN
2	4	BL10	5/8" LOCKWASHER
3	4	B1015	5/8 X 1 1/2" PLATED BOLT
4	4	GF1610	1/8" NPT GREASE FITTING
5	8	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING

SECURE FRAMES AT LEAST 39" ABOVE THE GROUND



CAUTION

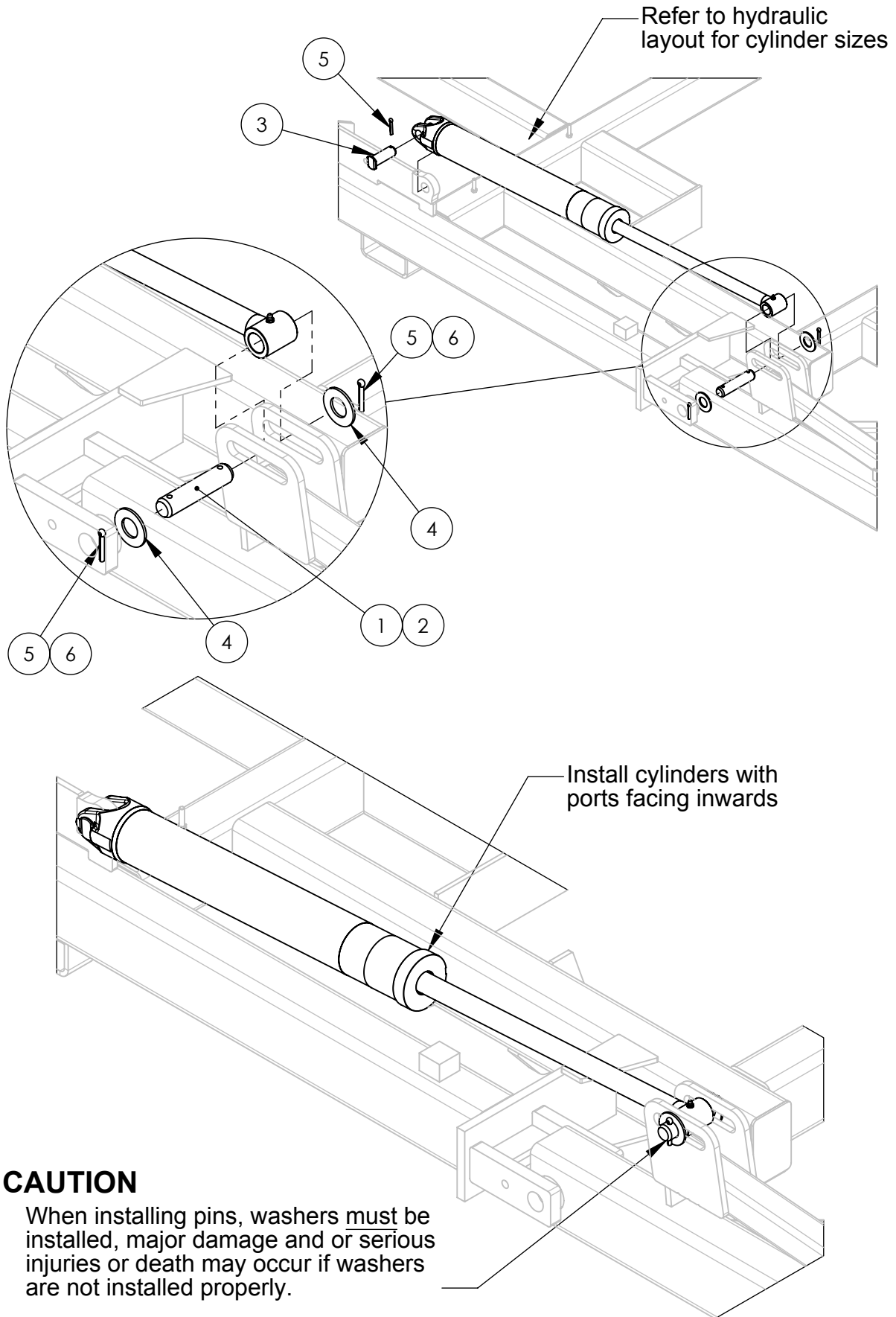
OIL ON FRAMES IS VERY SLIPPERY, ESPECIALLY ON NEW PAINT. CLEAN SPILLS IMMEDIATELY TO AVOID A PAINFUL FALL.

HINGE PIN INSTALLATION

MAKE SURE GREASE NIPPLE IS IN PLACE AND WILL ACCEPT GREASE.

1. SECURE FRAMES AT LEAST 39 inches OFF THE GROUND
2. ALIGN PIN HOLES, INSERT PIN #1 (1 1/2 X 8 1/4" WITH HARD PLATE)
3. FASTEN WITH 5/8X1-1/2" BOLT AND **LOCKWASHER**.

Wing Fold Cylinder Installation



Wing Fold Cylinder Installation

ITEM	27-31ft	36-41ft	PART NO.	DESCRIPTION
1	4	-	GP2000512A05	1 1/4" x 5 1/2" PIN - 2 HOLES
2	-	4	GPH2000612A06	1 1/4" x 6 1/2" HARDENED PIN - 2 HOLES
3	4	4	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
4	8	8	BF20S	1 1/4" SAE WASHER
5	12	4	BSC0520	5/16" x 2" COTTER PIN
6	-	8	BSC0620	3/8" x 2" COTTER PIN



CAUTION

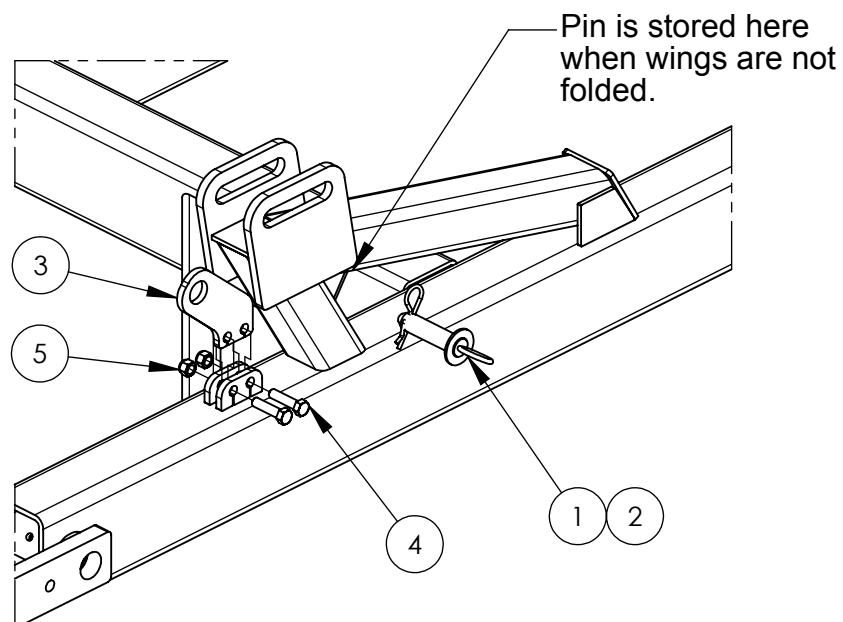
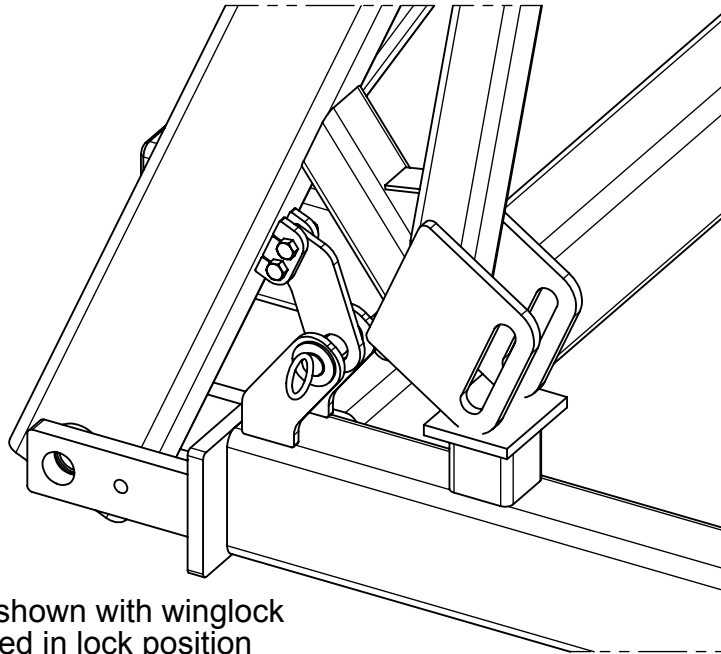
!!!DO NOT install pins in rods ends until **ALL AIR** has been purged out of the wing folding hydraulic circuit. See hydraulic layout for instructions.

When installing pins, washers must be installed, major damage and or serious injuries or death may occur if washers are not installed.

See ***Cylinder Series Identification Guide*** page for details on types of wingfold cylinders

36 & 41ft Wing Lock

ITEM	QTY	PART NO.	DESCRIPTION
1	2	GP1600414C04	1" x 4 1/4" RING & WASHER PIN
2	2	GHP9	#9 HAIR PIN
3	2	FL01061	RTS WING LOCK LUG
4	4	B0820	1/2"NC x 2" LG. HEX BOLT
5	4	BN08L	1/2" NYLOCK NUT NC



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36-41ft Front Bar Installation

! IMPORTANT

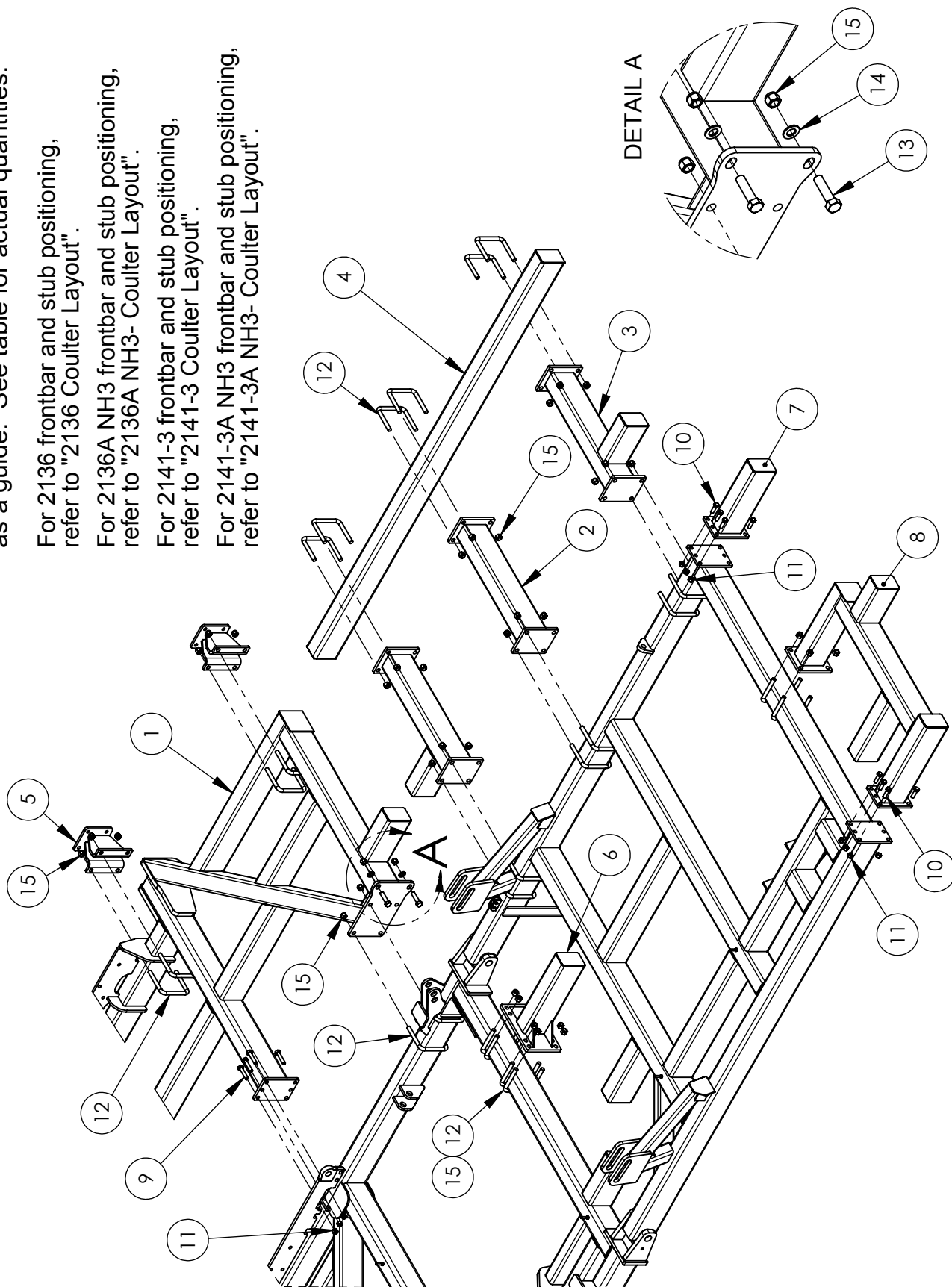
Example configuration shown. Use this page as a guide. See table for actual quantities.

For 2136 frontbar and stub positioning, refer to "2136 Coulter Layout".

For 2136A NH3 frontbar and stub positioning, refer to "2136A NH3- Coulter Layout".

For 2141-3 frontbar and stub positioning, refer to "2141-3 Coulter Layout".

For 2141-3A NH3 frontbar and stub positioning, refer to "2141-3A NH3- Coulter Layout".



36-41ft Front Bar Installation

ITEM	I-2136 QTY	I-2136A NH3 QTY	I-2141 QTY	I-2141A NH3 QTY	PART NO.	DESCRIPTION
1	1	1	1	1	C11236	36&41ft 3PC RTSHD FRONT FRAME - 48" MOUNTS
2	2	2	2	2	C11136	32" TOOLBAR EXTENSION
3	4	4	4	4	C11149	32" EXTENSION - SINGLE OFFSET STUB
4	2	2	2	2	UC40605117	CAPPED TUBE 4" x 6" x 5/16"W x 117" LG.
5	2	4	2	4	C90345	EXTENSION FOR HD COIL CAST MOUNT
6	-	2	-	2	C11244	18" STUB - DOUBLE 3/4" UBOLT
7	-	-	2	2	C10854	4" x 6" x 18" LG 6 HOLE BOLT-ON STUB
8	-	-	2	2	C11151	41' 3PC 5TH BAR EXTENTION
9	12	12	12	12	B1030	5/8 x 3" HEX BOLT GR 5
10	-	-	24	24	B1020	5/8"NC x 2" HEX BOLT
11	12	12	36	36	BN10L	5/8" NYLOCK NUT NC
12	32	44	36	48	BU1260	3/4" x 6 x 6" U-BOLT
13	4	4	4	4	B1230	3/4" x 3" LG. HEX BOLT GR.5
14	4	4	4	4	BF12HS	3/4" HARD STRUCTURAL WASHER
15	68	92	76	100	BN12L	3/4" NC NYLOCK NUT



IMPORTANT

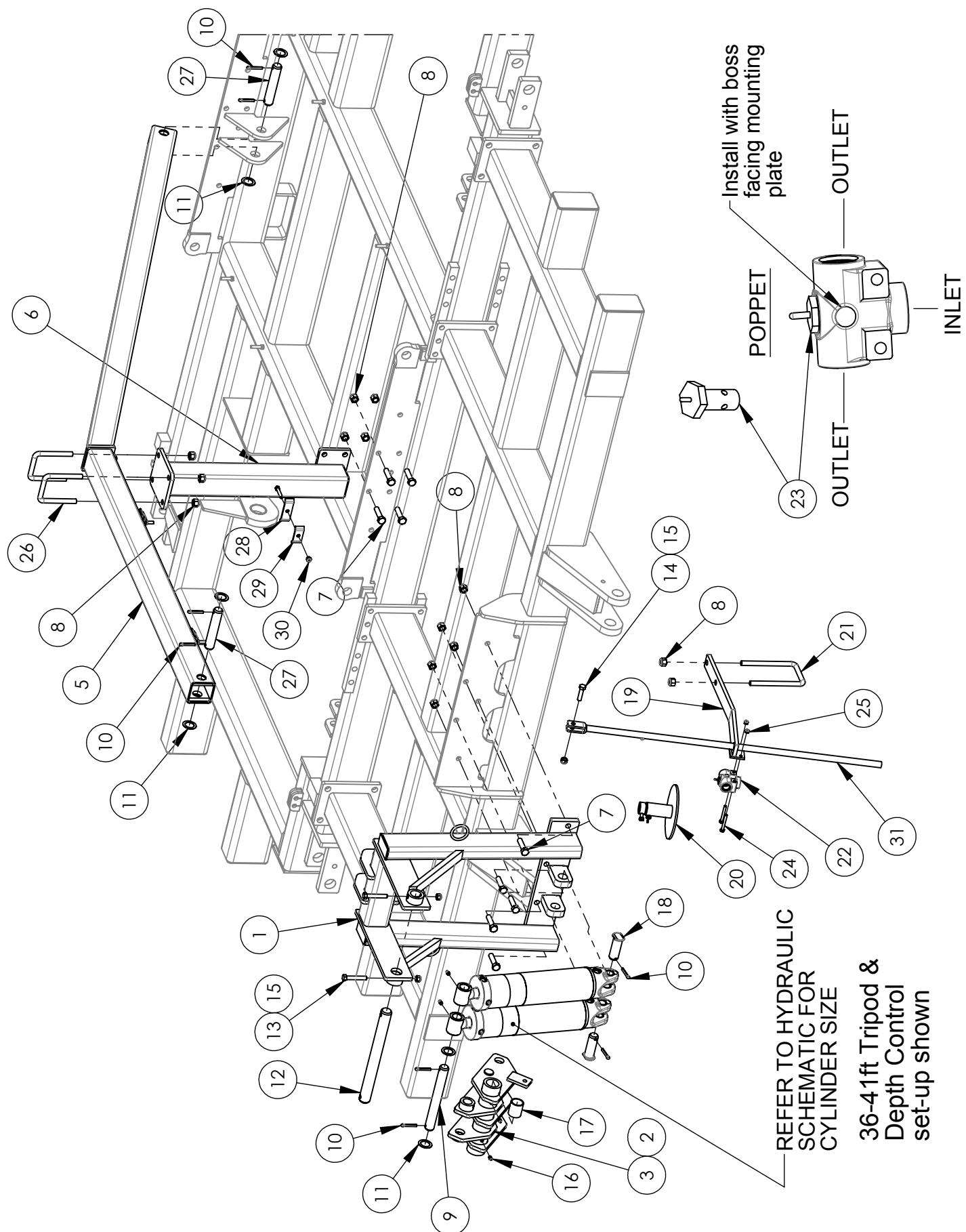
For 2136 frontbar and stub positioning, refer to "2136 Coulter Layout".

For 2136A NH3 frontbar and stub positioning, refer to "2136A NH3- Coulter Layout".

For 2141-3 frontbar and stub positioning, refer to "2141-3 Coulter Layout".

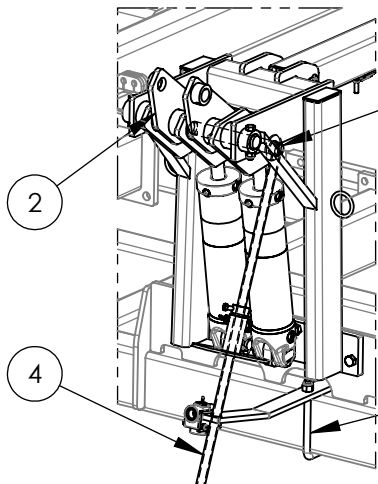
For 2141-3A NH3 frontbar and stub positioning, refer to "2141-3A NH3- Coulter Layout".

Self Levelling & Depth Control Installation



Self Levelling & Depth Control Installation

ITEM	12ft - 31ft 48" TONGUE	36ft - 41ft 48" TONGUE	PART NO.	DESCRIPTION
1	1	1	C11339	SELF-LEVELLING TRIPOD
2	1	-	C10784	550/570/699/700 SELF-LEVELING PIVOT
3	-	1	C10777	SELF-LEVELING PIVOT - FOR 4" x 12" CYLINDER
4	1	-	C10667	570 DEPTH CONTROL ROD
5	1	1	C11343	I-HEAVY TRIPOD BRACE
6	1	1	C11154	RTS HDXT TRIPOD BRACE MIDDLE POST
7	9	9	B1025	5/8 x 2 1/2" HEX BOLT GR 5
8	15	15	BN10L	5/8" NYLOCK NUT NC
9	1	1	GP2001012A05	1 1/4" DIA. x 10 1/2 " LG - 2 HOLE
10	8	8	BSC0520	5/16" x 2" COTTER PIN
11	6	6	GM30	1 1/4" MACHINE BUSHING
12	1	1	GP2401514A09	PIN 1 1/2" DIA. x 15 1/4" LG. - 2 HOLES
13	2	2	B0830	1/2" x 3" HEX BOLT
14	-	1	B0820	1/2" x 2" HEX BOLT
15	2	3	BN08L	1/2" NYLOCK NUT NC
16	4	4	GF1610	1/8" NPT GREASE FITTING
17	2	2	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
18	2	2	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
19	1	1	C11144	HD RTS DEPTH CONTROL BRACKET
20	1	1	C1008	DEPTH CONTROL DISC ASSEMBLY
21	1	1	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
22	1	1	HPMSC10	STROKE CONTROL VALVE
23	1	1	HPM180901022	STROKE CONTROL REPLACEMENT CARTRIDGE
24	2	2	B0525	5/16"NC x 2 1/2" HEX BOLT
25	2	2	BN05L	5/16" LOCK NUT
26	2	2	BU103535	U-BOLT 5/8" x 3 9/16" x 5" LG.
27	2	2	GPH2000612A06	1 1/4" x 6 1/2" HARDENED PIN - 2 HOLES
28	3	3	P0160B	HOSE CLAMP 4"
29	3	3	P0160A	HOSE CLAMP 3"
30	3	3	BN06L	3/8"-16NC LOCK NUT
31	-	1	C10907	50' RTS DEPTH CTRL ROD - 42" WITH CLEVIS



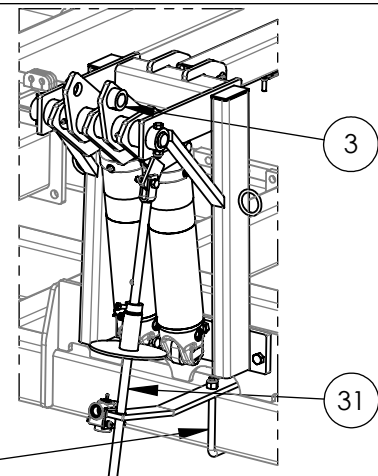
12-31ft Tripod & Depth Control

Washer of the depth control rod (6) is shared with cylinder rod pin (9)



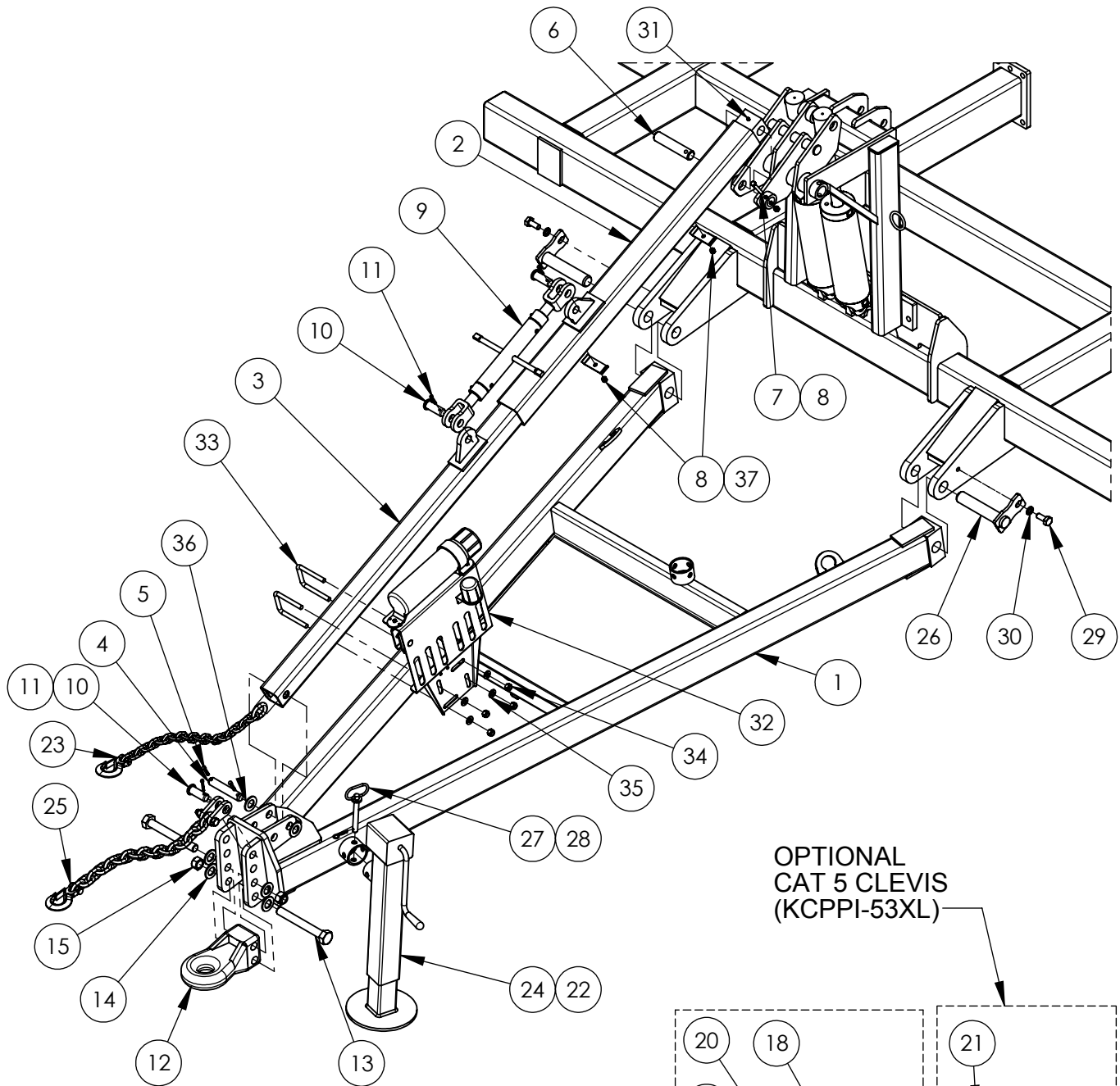
IMPORTANT

Tighten both sides equally,
DO NOT OVERTIGHTEN!!!
BRACKET WILL BEND!!!



36-41ft Tripod & Depth Control

Tongue Installation



22 & 23 Used on 18ft - 31ft Machines

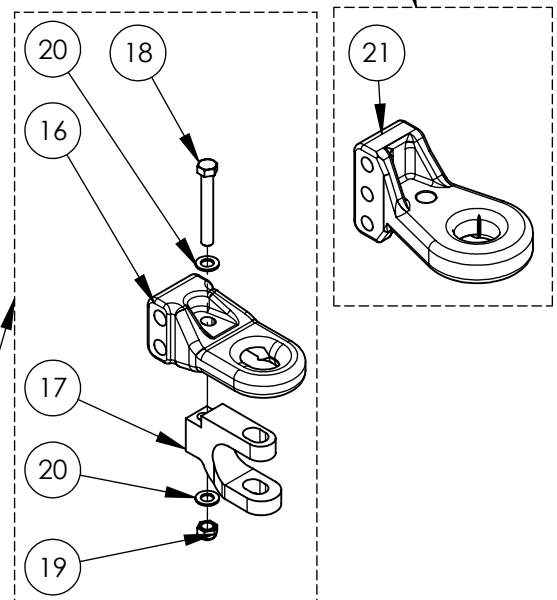
24 & 25 Used on 36ft - 50ft Machines

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

OPTIONAL:
CAT 3 CLEVIS
(KCPPI-30XL)

Torque 18 & 19 to
220-250 ft/lbs

OPTIONAL
CAT 5 CLEVIS
(KCPPI-53XL)



Tongue Installation

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	P9701C	HD RTS-870-9700 CAST CLEVIS TONGUE
2	1	A60040	OUTER TELESCOPE 48"
3	1	A60041	570-580-860-870-9700 INNER TELESCOPE
4	1	GP1600512A05	PIN 1" DIA. x 5 1/2" LG. - 2 HOLES
5	2	BSC0515	5/16" x 1 1/2" COTTER PIN
6	1	GP2000614B07	PIN 1 1/4" DIA. x 6 1/4" LG. - 1 HOLE
7	1	B0625	3/8" X 2 1/2" LG. GRADE 5
8	3	BN06L	3/8"-16NC LOCK NUT
9	1	A50010	TURNBUCKLE
10	3	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
11	3	BSC0415	1/4" x 1 1/2" COTTER PIN
12	1	PPI-42XL	CAT 4 CAST IRON HITCH
13	2	B1680H	1" x 8" NC HEX BOLT GR. 8
14	4	BF16HS	1" HARD STRUCTURAL WASHER
15	2	BN16C	1"- UNC STOVER LOCKNUT
16	1	PPI-30XL	CAT #3 CAST CLEVIS
17	1	PPI-208VR	CLEVIS FOR CAT 3 HITCH
18	1	B1255H	3/4" x 5 1/2" HEX BOLT GR. 8
19	1	BN12S	3/4" STOVER LOCK NUT
20	2	BF12HS	3/4" HARD STRUCTURAL WASHER
21	1	PP53XL	CAT #4-5 CAST CLEVIS
+ 22	1	GJ5000S	5000lb JACK WITH ROUND MOUNT
+ 23	1	GJ652027	20,000 LB SAFETY CHAIN
++ 24	1	GJ8002	8000 LB TONGUE JACK
++ 25	1	GJ35K48	35,000 LB SAFETY CHAIN - 48" LG.
26	2	GPH2400814F	1 1/2" x 8 1/4" LG. HARD PLATE PIN
27	1	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
28	1	GHP11	#11 HAIR PIN
29	2	B1015	5/8"NC x 1 1/2" HEX BOLT
30	2	BL10	5/8" LOCKWASHER
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	BN08L	1/2" NYLOCK NUT NC
35	4	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
36	2	BF16S	1" SAE WASHER
37	2	P0160B	HOSE CLAMP 4"

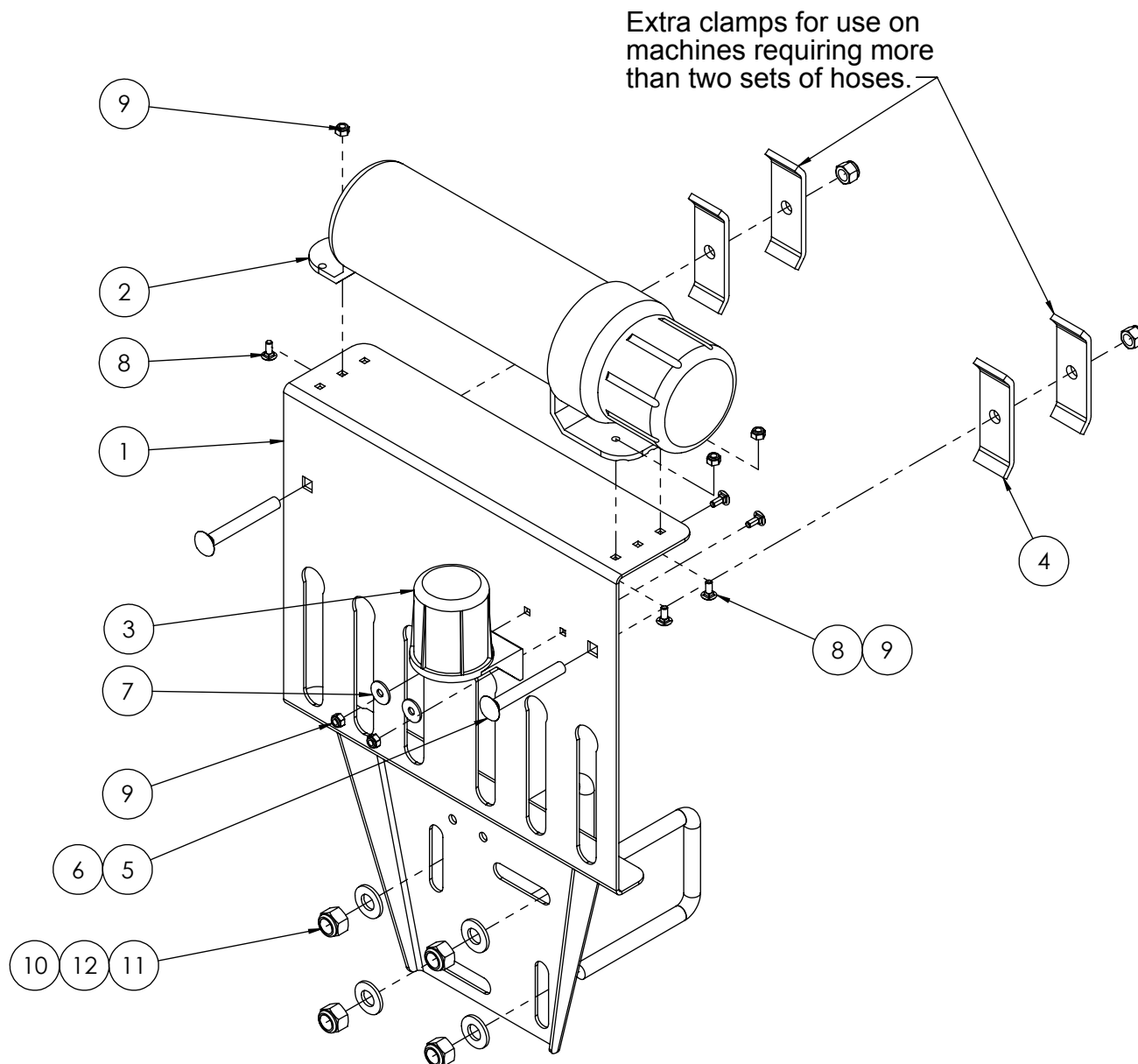
+ (22) & (23) Used on 18ft - 31ft Machines

++ (24) & (25) Used on 36ft - 50ft Machines

USE 10 8" CABLE TIES (H0003) TO HELP SECURE HOSES

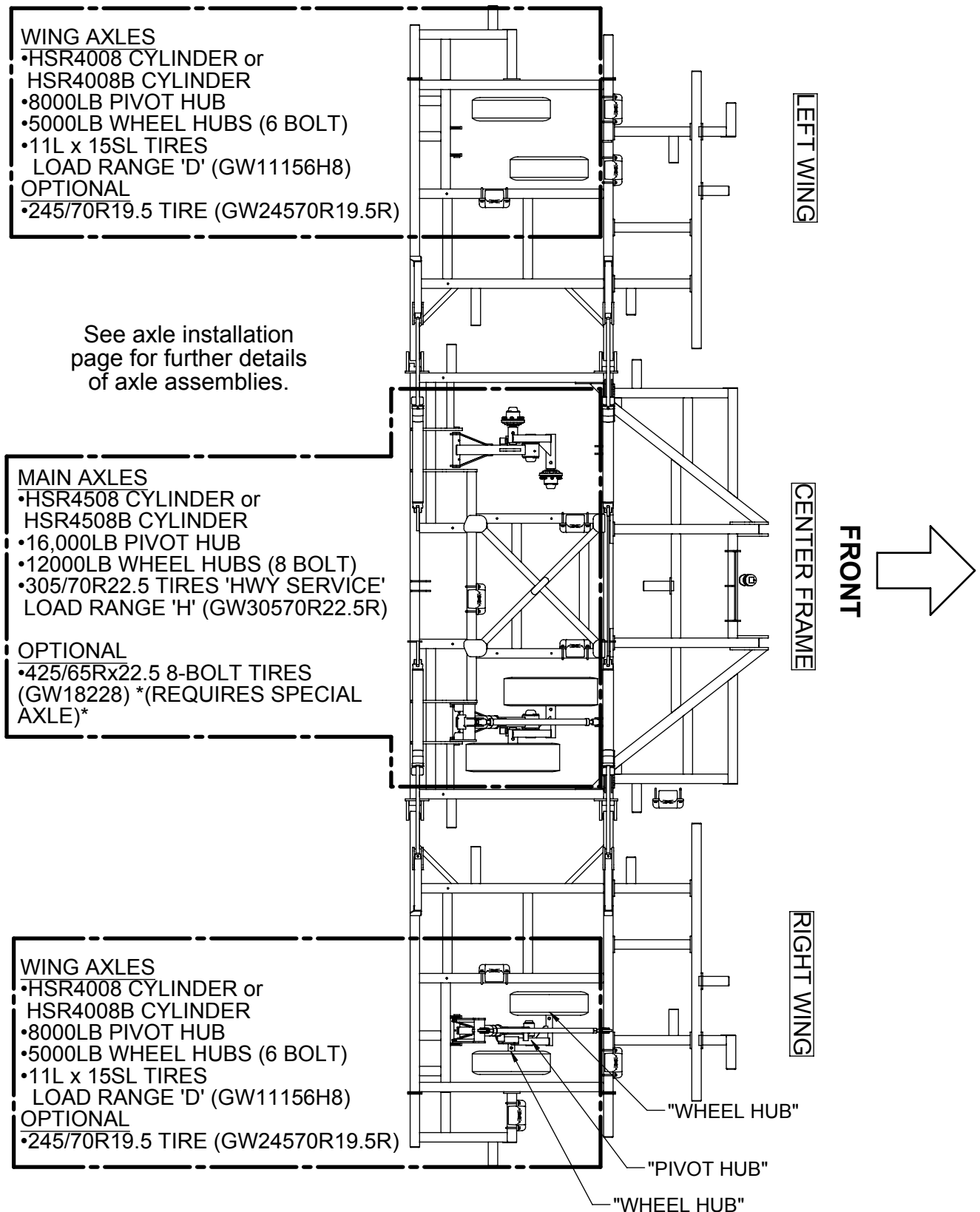
Telescope Mount Hose Holder

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

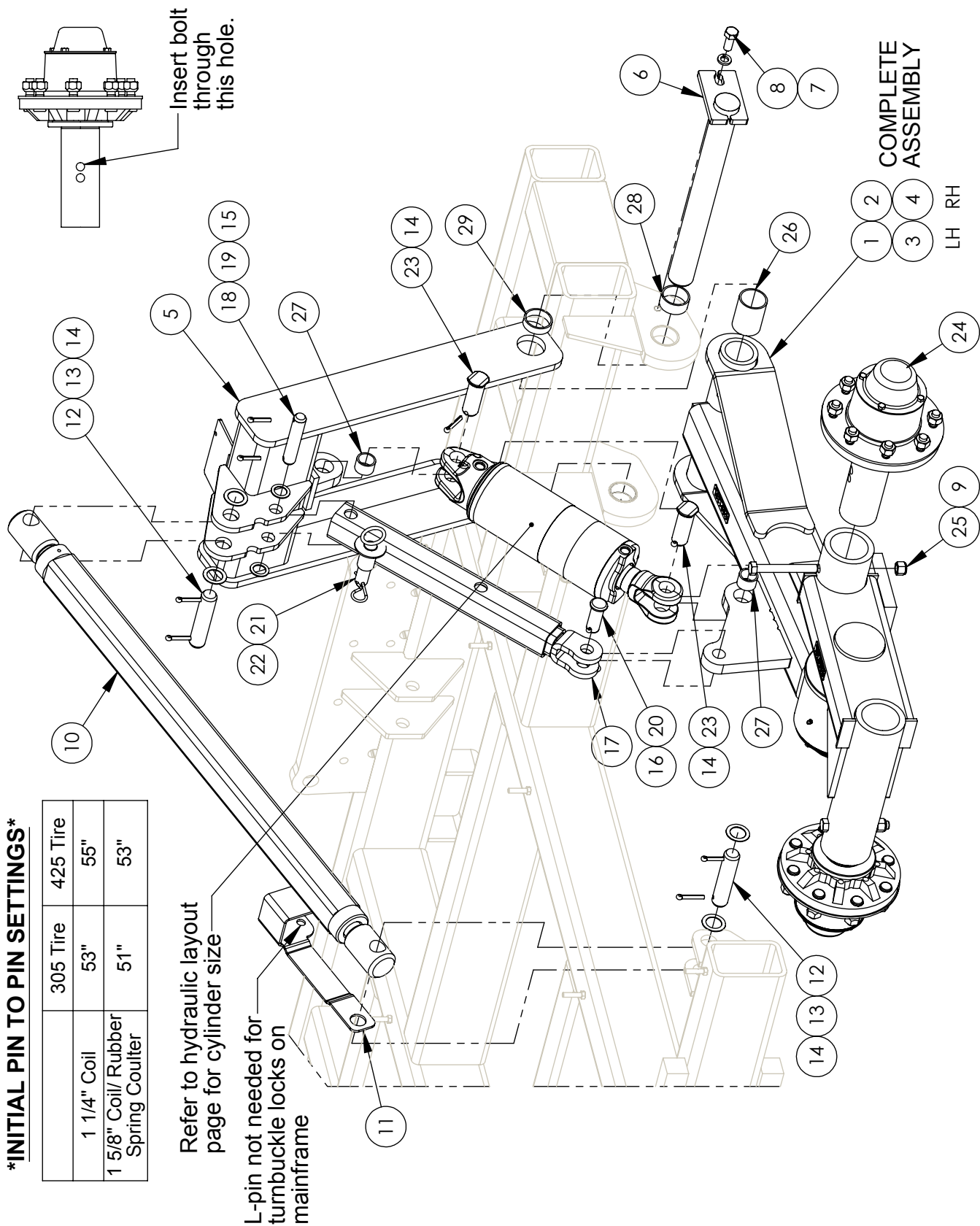


36-41ft Wheel and Axle Layout

In this manual, all references to Right or Left assume the operator is standing behind the machine looking forward.



16000lb Mainframe Axle Installation



16000lb Mainframe Axle Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C00122L-KIT	16000 LB SHORT AXLE ASSEMBLY - LH
2	1	C00122R-KIT	16000 LB SHORT AXLE ASSEMBLY - RH
** 3	1	C00216L-KIT	16,000 LB AXLE LH FOR 425 TIRES
** 4	1	C00216R-KIT	16,000 LB AXLE RH FOR 425 TIRES
5	2	T00343	52'/62' MAIN FRAME AXLE TOWER
6	2	GPH3201958F	2" x 19 5/8" LG. AXLE PIN - HARDENED
7	2	BL10	5/8" LOCKWASHER
8	2	B1015	5/8 X 1 1/2" PLATED BOLT
9	4	B1050	5/8" NC x 5" LG. HEX BOLT GR. 8 PLATED
10	2	A60039	2 1/2" TURNBUCKLE 42" TUBE
11	2	C10716	2 1/2" TURNBUCKLE LOCK
12	4	GP2000512A05	1 1/4" x 5 1/2" PIN - 2 HOLES
13	8	GM30	1 1/4" MACHINE BUSHING
14	12	BSC0520	5/16" x 2" COTTER PIN
15	4	BSC0515	5/16" x 1 1/2" COTTER PIN
16	2	BSC0415	1/4" x 1 1/2" COTTER PIN
17	2	C50010	TRANSPORT LOCK ASSEMBLY
18	2	GP16005A05	PIN 1" DIA. x 5" LG. - 2 HOLES
19	4	GM26	1" MACHINE BUSHING
20	2	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
21	2	GP1600414C04	1" x 4 1/4" RING & WASHER PIN
22	2	GHP9	#9 HAIR PIN
23	4	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
24	4	GW12000A	12000 LB HUB AND 15" SPINDLE ASSEMBLY
25	4	BN10L	5/8" NYLOCK NUT NC
26	4	GBB225200300	2 1/4" x 2" x 3" LG. HARD BUSHING
27	4	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
28	4	GBB225200100	2 1/4" x 2" x 1" LG. HARD BUSHING
29	4	GBB225200062	2 1/4" x 2" x 5/8" LG. HARD BUSHING

**** Axles for 425 tire option**



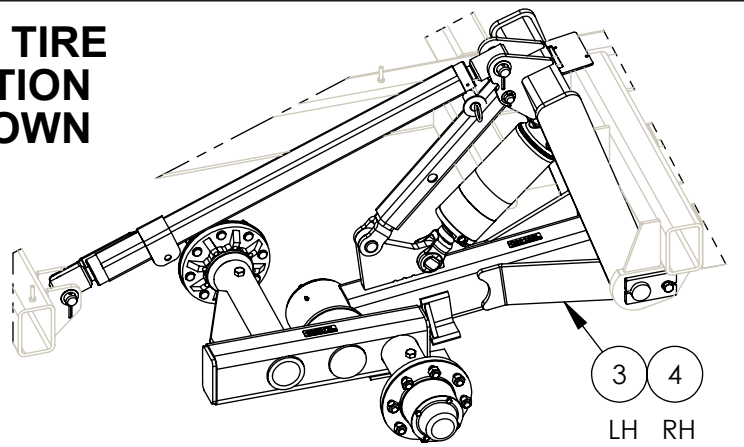
CAUTION

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.

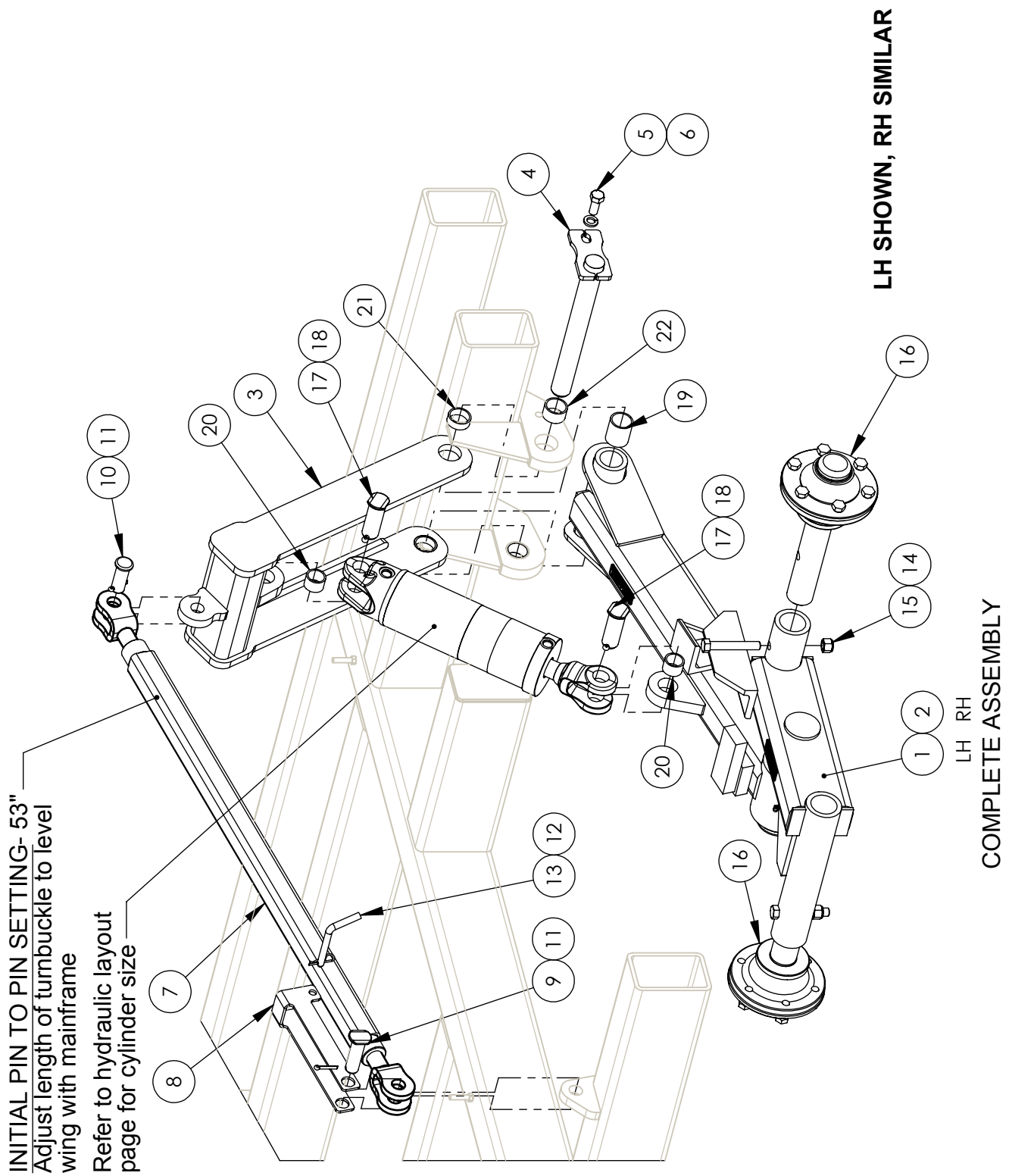
Check: Wheel nuts/lugs for proper tightness.
(See torque & pressure values on tire page)

****NOTE: 425 TIRE OPTION IS ONLY AVAILABLE ON THE 36-41FT I-HEAVY.**

425 TIRE OPTION SHOWN



8000lb Wing Frame Axle Installation



8000lb Wing Frame Axle Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C00172WL-KIT	8000 LB SHORT WING AXLE ASSEMBLY - LH
2	1	C00172WR-KIT	8000 LB SHORT WING AXLE ASSEMBLY - RH
3	1	T00387	PRIMARY WING AXLE TOWER
4	1	GPH2401312F	1 1/2" x 13 7/8" LG. AXLE PIN - HARDENED
5	1	B1015	5/8 X 1 1/2" PLATED BOLT
6	1	BL10	5/8" LOCKWASHER
7	1	A60027	42" WING TURNBUCKLE
8	1	FL00051	TURNBUCKLE LOCK
9	1	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
10	1	GP1600258H04	PIN 1" DIA. x 2 5/8" LG. WITH HEAD
11	2	BSC0415	1/4" x 1 1/2" COTTER PIN
12	1	GHP11	#11 HAIR PIN
13	1	GP0800312L03	1/2" x 3 1/2" L - PIN
14	2	B1040	5/8"NC x 4" LG. HEX BOLT
15	2	BN10L	5/8" NYLOCK NUT NC
16	2	GW5000A	5000 LB HUB AND SPINDLE ASSEMBLY
17	2	GPHF2000312H05	1 1/4" x 3 1/2" SHOULDER PIN HARDENED W/ FLATS
18	2	BSC0520	5/16" x 2" COTTER PIN
19	2	GBB175150200	1 3/4" x 1 1/2" x 2" LG. HARD BUSHING
20	2	GBB150125100	1 1/2" x 1 1/4" x 1" LG. HARD BUSHING
21	2	GBB175150062	1 3/4" x 1 1/2" x 5/8" LG. HARD BUSHING
22	2	GBB175150100	1 3/4" x 1 1/2" x 1" LG. HARD BUSHING

Quantities shown for one wing, double quantities shown per machine.



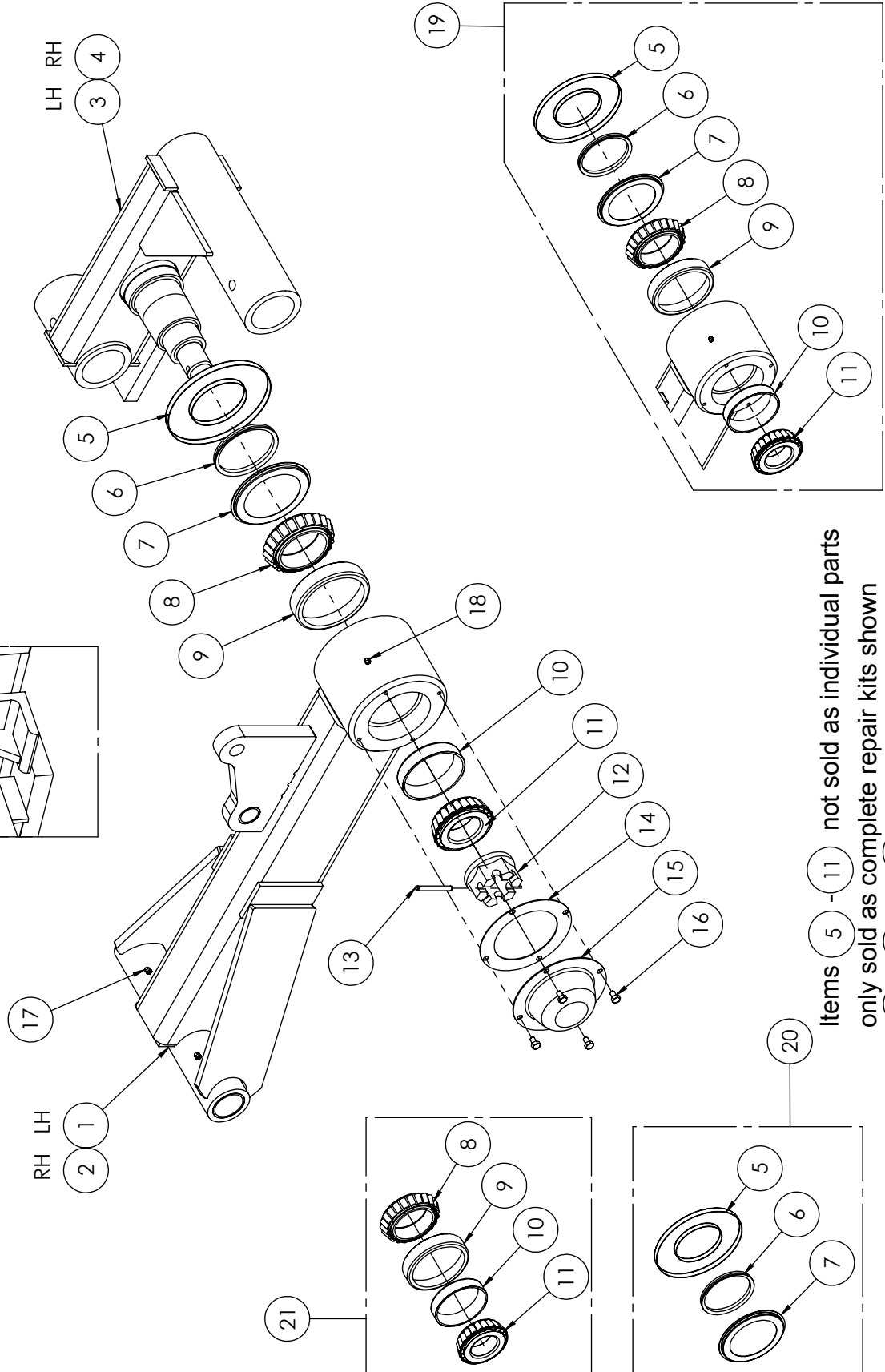
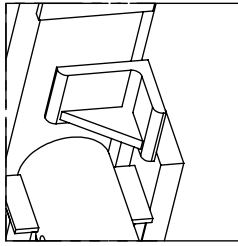
CAUTION

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)

16000lb Tandem Axle Assembly

VIEW OF STOPPER



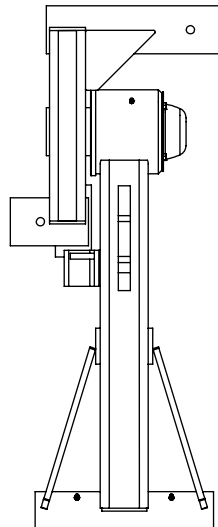
Items 5 - 11 not sold as individual parts
only sold as complete repair kits shown

20, 19, & 21

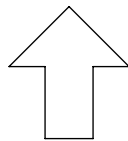
16000lb Tandem Axle Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C00123L-KIT	16000 LB AXLE UPRIGHT - LH
2	1	C00123R-KIT	16000 LB AXLE UPRIGHT - RH
3	1	C00076L	510 MAIN AXLE WALKER - LH
4	1	C00076R	510 MAIN AXLE WALKER - RH
5	1	GW16110VW	16000 LB V-SEAL GRASS WRAP GUARD
6	1	GW16110VS	16000 LB V-SEAL
7	1	GW16110VC	16000 LB V-SEAL COUNTERFACE
8	1	GB47687	16000 LB INNER CONE
9	1	GB47620	16000 LB INNER CUP
10	1	GB39520	16000 LB OUTER CUP
11	1	GB39585	16000 LB OUTER CONE
12	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
13	1	BSR0527	5/16" x 2 3/4" ROLL PIN
14	1	GW16112S	16000 LB DUST CAP SEAL
15	1	GW16112	16000 LB DUST CAP
16	4	B0505	5/16"NC x 1/2" LG. HEX BOLT
17	2	GF1610	1/8" NPT GREASE FITTING
18	1	GF641	1/4"-28NF GREASE FITTING
19	1	GW16111V	16000 LB TANDEM BEARINGS WITH V-SEAL KIT
20	1	GW16110VT	16000 LB TANDEM V-SEAL KIT
21	1	GW16111-1	16000LB BEARING KIT

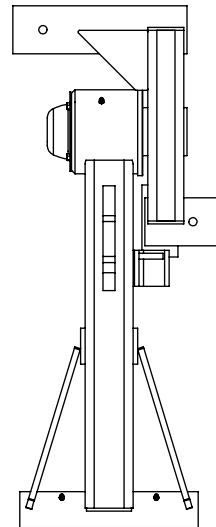
Items (5) - (11) not sold as individual parts
only sold as complete repair kits shown
(20), (19), & (21)



**LH AXLE
ASSEMBLY**



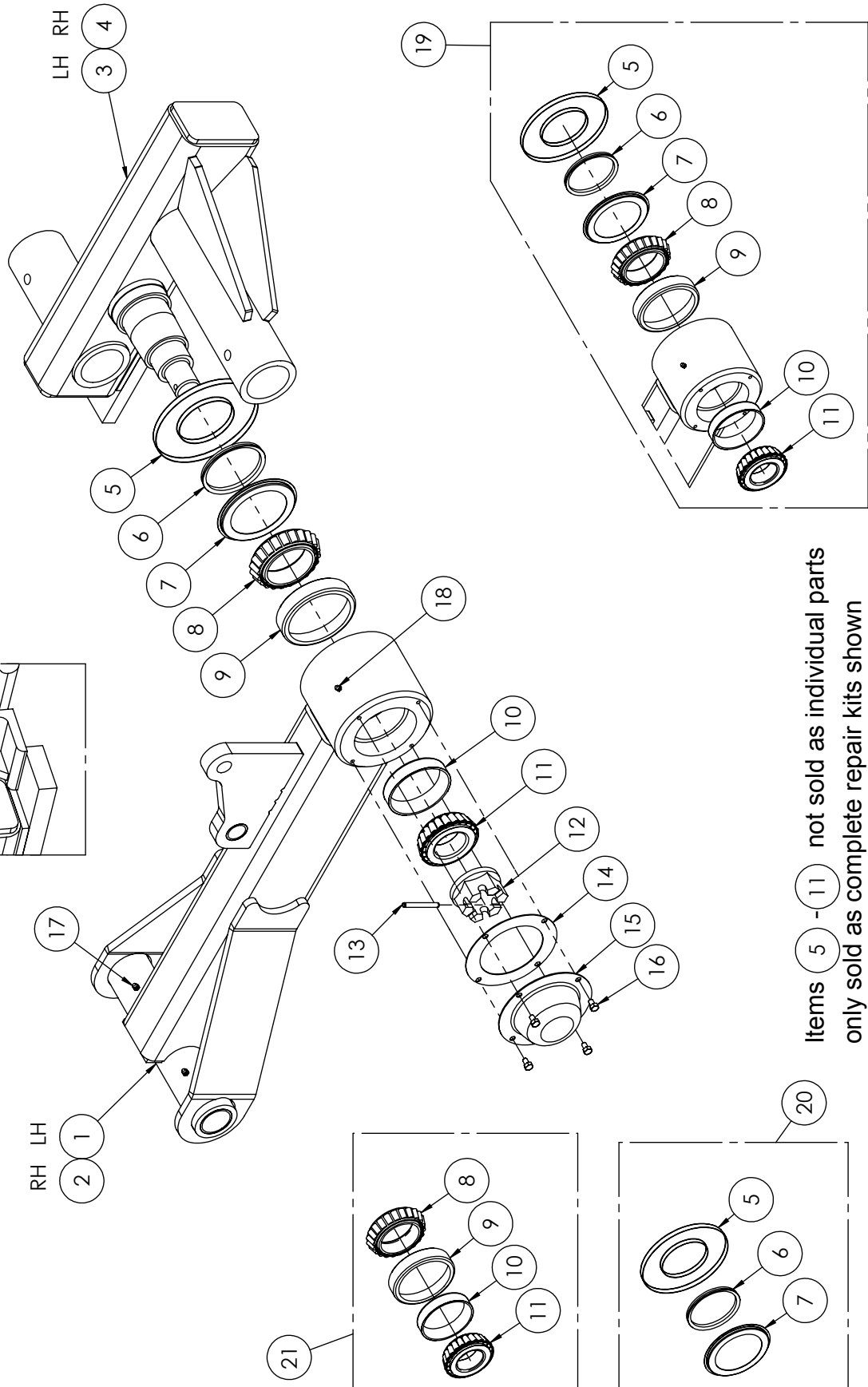
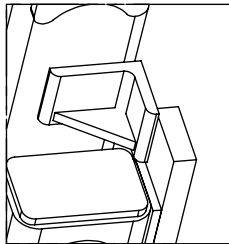
FRONT



**RH AXLE
ASSEMBLY**

16000lb Tandem Axle Assembly for 425 Tire Option

VIEW OF STOPPER



Items 5 - 11 not sold as individual parts
only sold as complete repair kits shown

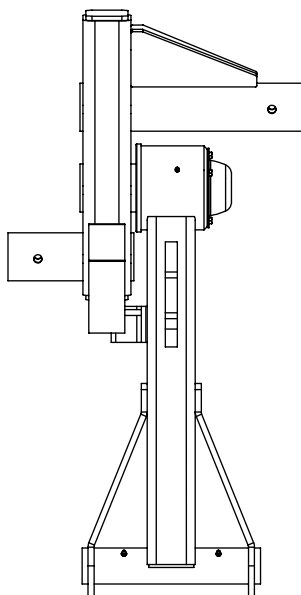
20, 19, & 21

16000lb Tandem Axle Assembly for 425 Tire Option

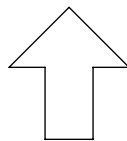
ITEM	QTY	PART NO.	DESCRIPTION
1	1	C00123L-KIT	16000 LB AXLE UPRIGHT - LH
2	1	C00123R-KIT	16000 LB AXLE UPRIGHT - RH
3	1	C00217L	16,000 LB WALKER
4	1	C00217R	16,000 LB WALKER
5	1	GW16110VW	16000 LB V-SEAL GRASS WRAP GUARD
6	1	GW16110VS	16000 LB V-SEAL
7	1	GW16110VC	16000 LB V-SEAL COUNTERFACE
8	1	GB47687	16000 LB INNER CONE
9	1	GB47620	16000 LB INNER CUP
10	1	GB39520	16000 LB OUTER CUP
11	1	GB39585	16000 LB OUTER CONE
12	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
13	1	BSR0527	5/16" x 2 3/4" ROLL PIN
14	1	GW16112S	16000 LB DUST CAP SEAL
15	1	GW16112	16000 LB DUST CAP
16	4	B0505	5/16"NC x 1/2" LG. HEX BOLT
17	2	GF1610	1/8" NPT GREASE FITTING
18	1	GF641	1/4"-28NF GREASE FITTING
19	1	GW16111V	16000 LB TANDEM BEARINGS WITH V-SEAL KIT
20	1	GW16110VT	16000 LB TANDEM V-SEAL KIT
21	1	GW16111-1	16000LB BEARING KIT

Items (5) - (11) not sold as individual parts
only sold as complete repair kits shown

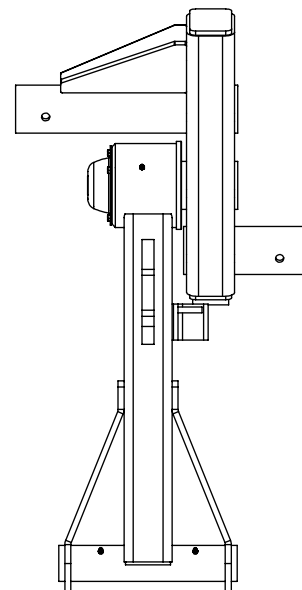
(19), (20), & (21)



**LH AXLE
ASSEMBLY**

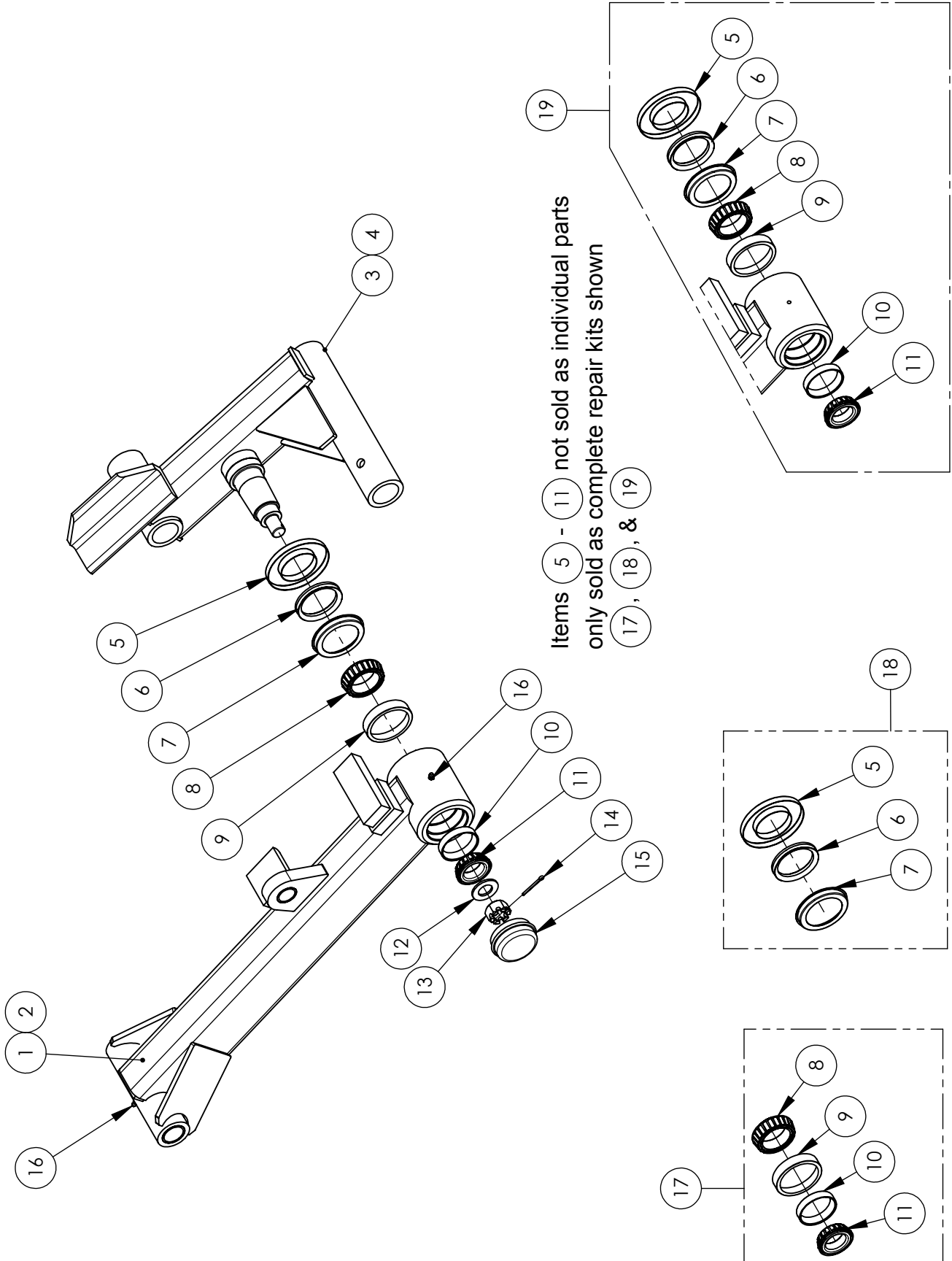


FRONT



**RH AXLE
ASSEMBLY**

8000lb Wing Axle Assembly

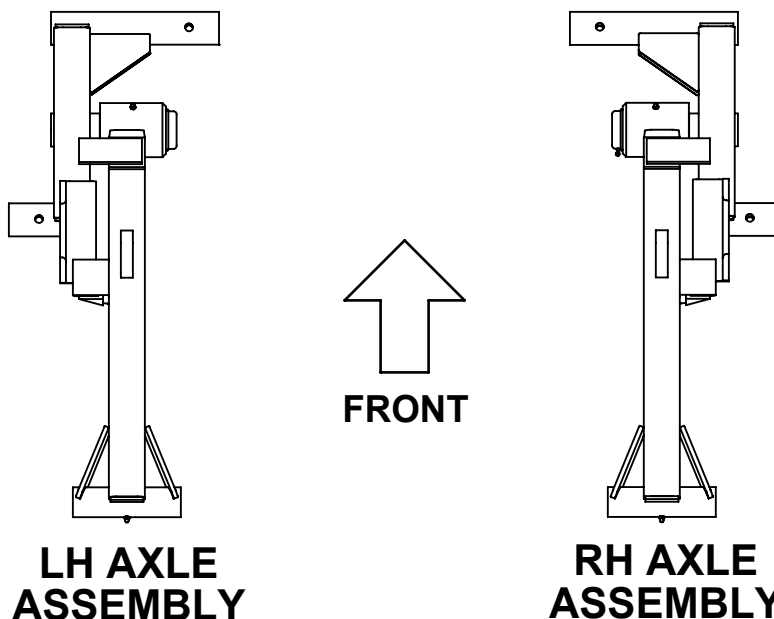


8000lb Wing Axle Assembly

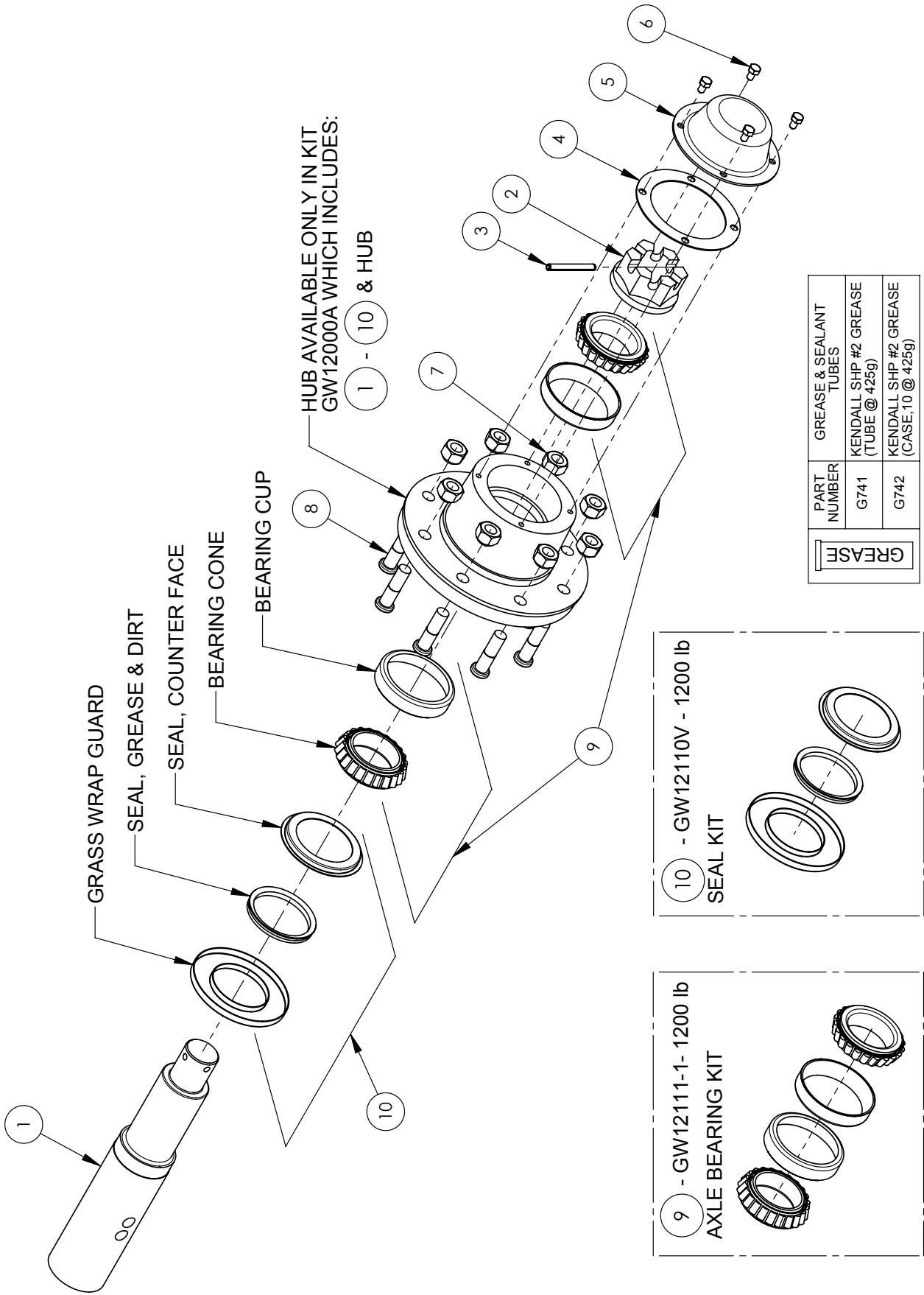
ITEM	QTY	PART NO.	DESCRIPTION
1	1	C5542WL-KIT	8000 LB WING UPRIGHT BEAM - LH
2	1	C5542WR-KIT	8000 LB WING UPRIGHT BEAM - RH
3	1	C00171WL	8,000LB SHORT WALKING BEAM FOR WINGS
4	1	C00171WR	8,000LB SHORT WALKING BEAM FOR WINGS
5	1	GW8110VW	8000 LB V-SEAL GRASS WRAP GUARD
6	1	GW8110VS	8000 LB V-SEAL
7	1	GW8110VC	8000 LB V-SEAL COUNTERFACE
8	1	GB506849	8000 INNER CONE
9	1	GB506810	8000 INNER CUP
10	1	GB501310	8000 OUTER CUP
11	1	GB501349	8000 OUTER CONE
12	1	GW8108	1" SPINDLE WASHER
13	1	BN16SF	1" NF SLOTTED HEX NUT
14	1	BSC0317	3/16" x 1 3/4" COTTER PIN
15	1	GW8112	8000 DUST CAP
16	2	GF1610	1/8" NPT GREASE FITTING
17	1	GW8111-1	8000LB BEARING KIT
18	1	GW8110V	8000 LB V-SEAL KIT
19	1	GW8111V	8000 LB BEARING WITH V-SEAL KIT

Items (5) - (11) not sold as individual parts,
only sold as complete repair kits shown

(17), (18), & (19)



12000lb Hub & Spindle Assembly



12000lb Hub & Spindle Assembly

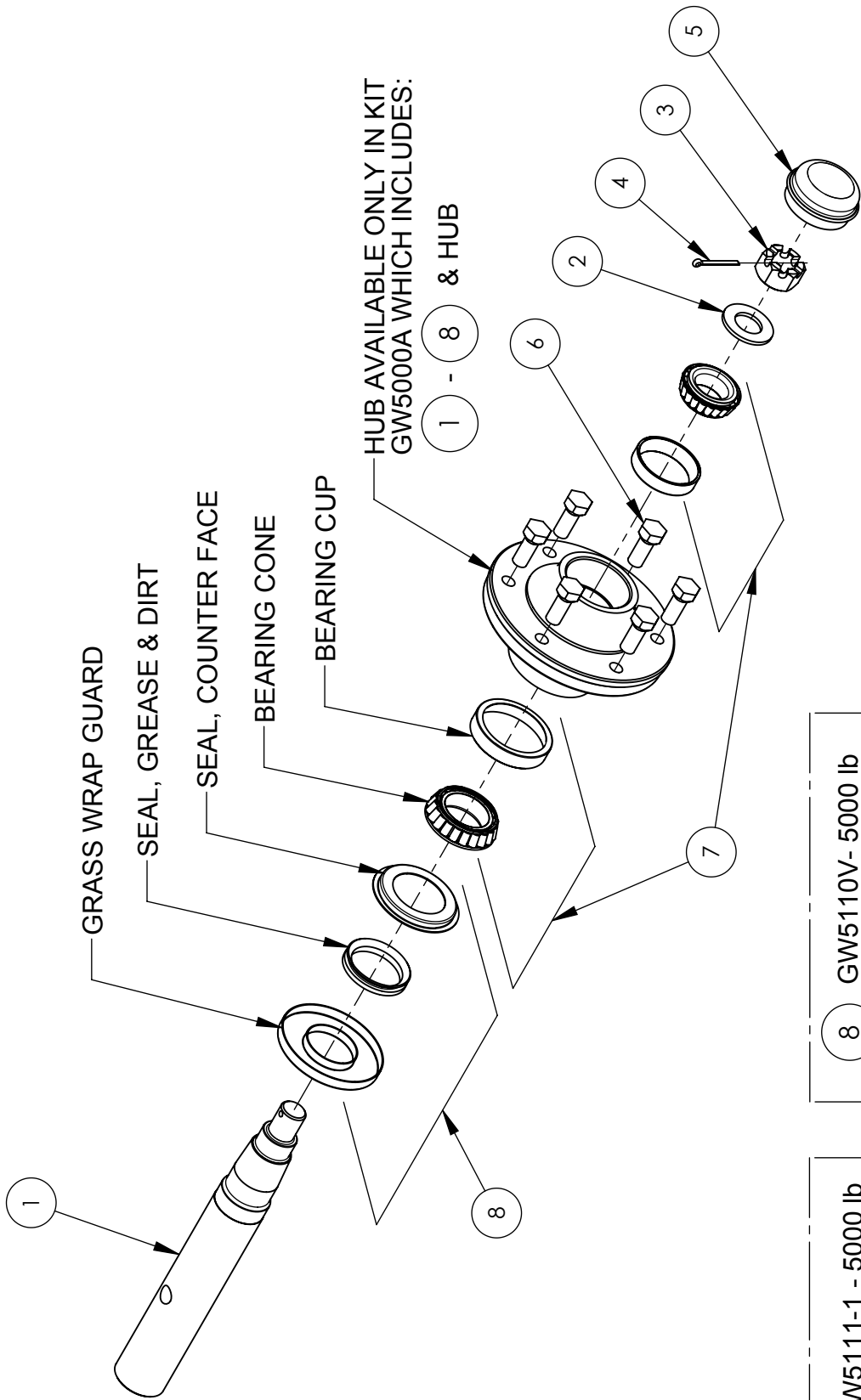
ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW12015	12000 LB SPINDLE - 15" LONG
2	1	BN28SF	1 3/4" NF SLOTTED FLANGE NUT
3	1	BSR0527	5/16" x 2 3/4" ROLL PIN
4	1	GW12112S	12000 LB DUST CAP SEAL
5	1	GW14112	14,000 LB DUST CAP
6	4	B0505	5/16"NC x 1/2" LG. HEX BOLT
7	8	BW10	5/8" WHEEL LUG NUT
8	8	BW1020	5/8" x 2" PRESS-IN WHEEL STUD
9	1	GW12111-1	12000 LB BEARING WITH V-SEAL KIT
10	1	GW12110V	10000/12000 LB V-SEAL KIT

Entire assembly available as part number GW12000A (includes hub, spindle, bearings, seal, dust cap, and hardware).



NOTE: TIGHTEN LUG NUTS ONCE PER DAY FOR FIRST WEEK

5000lb Hub & Spindle Assembly



GREASE	
PART NUMBER	GREASE & SEALANT TUBES
G741	KENDALL SHP #2 GREASE (TUBE @ 425g)
G742	KENDALL SHP #2 GREASE (CASE, 10 @ 425g)

8 GW5110V - 5000 lb SEAL KIT

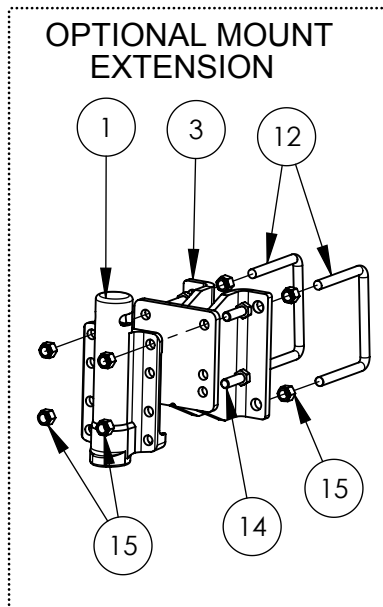
7 GW5111-1 - 5000 lb AXLE BEARING KIT

5000lb Hub & Spindle Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	GW5014	5000/5500 LB SPINDLE-14 IN. LG
2	1	BF16-9	1" HARD SAE FLAT WASHER GR.9 PLATED
3	1	BN16SF	1" NF SLOTTED HEX NUT
4	1	BSC0317	3/16" x 1 3/4" COTTER PIN
5	1	GW5112	5000/5500 LB DUST CAP
6	6	BW0912	9/16"-18 x 1 1/4" WHEEL BOLT
7	1	GW5111-1	5000/5500 LB BEARING KIT
8	1	GW5110V	5000/5500 LB V-SEAL KIT

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

1 5/8" Coil Coulter Assembly



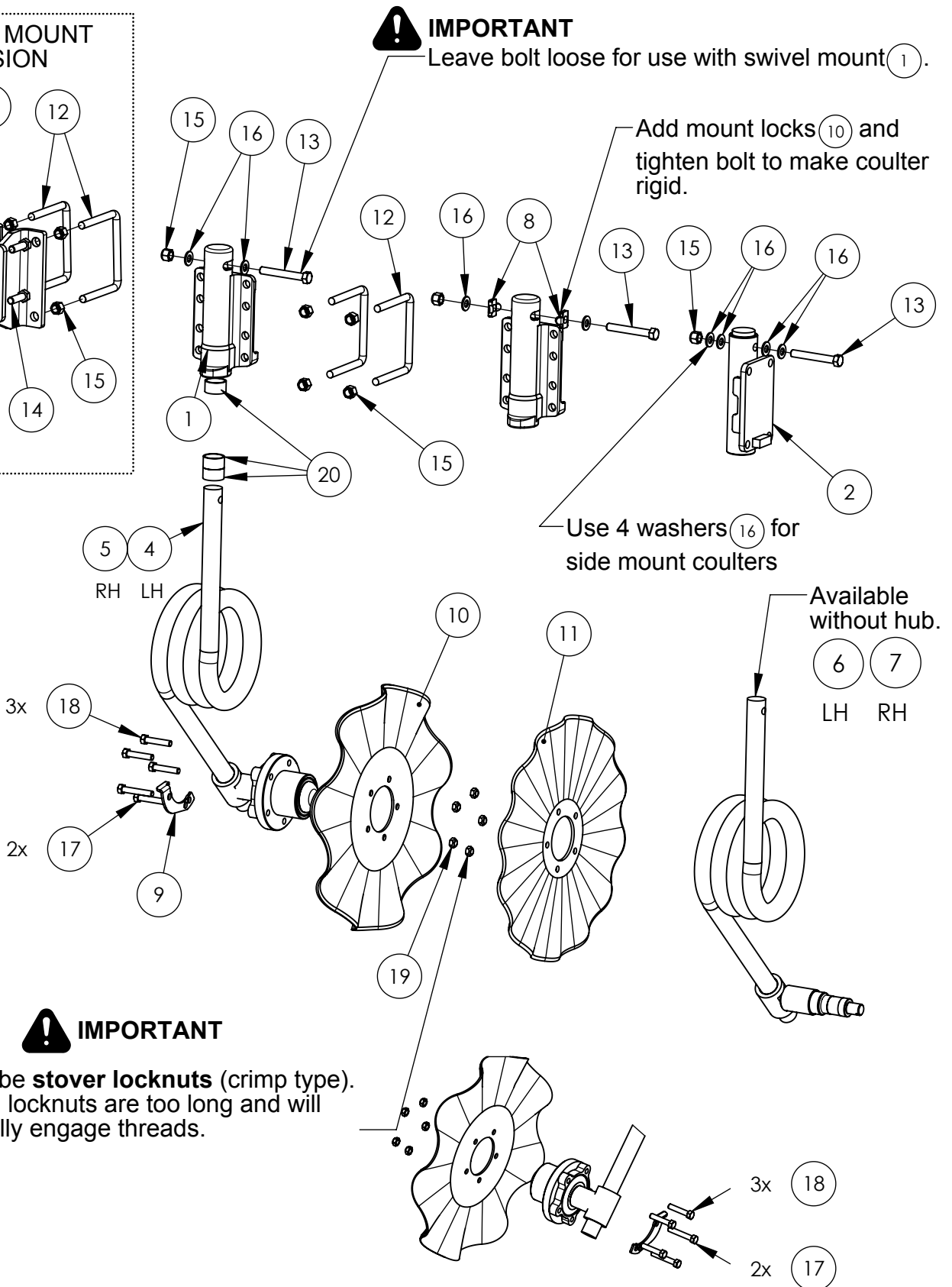
IMPORTANT

Leave bolt loose for use with swivel mount (1).

Add mount locks (10) and tighten bolt to make coulter rigid.

Use 4 washers (16) for side mount coulters

Available without hub.



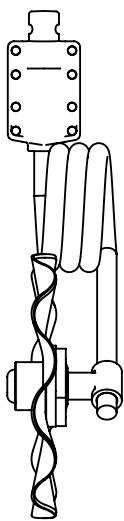
IMPORTANT

Must be **stover locknuts** (crimp type). Nylon locknuts are too long and will not fully engage threads.

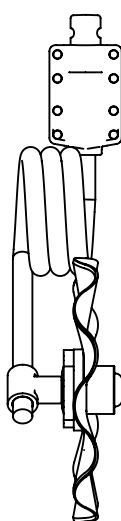
Alternate view of scraper.
Note: Scraper requires longer bolts.

1 5/8" Coil Coulter Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C90293	1 5/8" CAST MOUNT
2	1	C90296	1 5/8" HD SIDE MOUNT
3	1	C90345	EXTENSION FOR 1 1/4" & 1 5/8 " COIL CAST MOUNT
4	1	A8070LWA	1 5/8" COIL WITH SPINDLE AND HUB - LH
5	1	A8070RWA	1 5/8" COIL WITH SPINDLE AND HUB - RH
6	1	A8070LW	1 5/8" COIL WITH SPINDLE - LH
7	1	A8070RW	1 5/8" COIL WITH SPINDLE - RH
8	2	C90300	1 5/8" CAST COIL MOUNT LOCK
9	1	C90313	RTS HD RUBBER COULTER HUB SCRAPER
10	1	CT512208	22" COULTER BLADE 8 WAVE x 2-1/2" DEEP, 5mm THICK, 5 BOLT
11	1	CT512213	22" COULTER BLADE 13 WAVE x 1.25" DEEP, 5mm THICK, 5 BOLT
12	4	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
13	1	B1045	5/8 x 4-1/2" LG. HEX BOLT
14	4	B1020	5/8"NC x 2" HEX BOLT
15	12	BN10L	5/8" NYLOCK NUT NC
16	2	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
17	2	B0830	1/2"NC x 3" HEX BOLT
18	3	B0825	1/2" NC x 2 1/2" LG. HEX BOLT GR. 5
19	5	BN08S	1/2"-13NC STOVER LOCK NUT
20	3	GBW2018751000	1 7/8" x 1" x 1/8" wear bushing for heavy coil mount



LH



RH

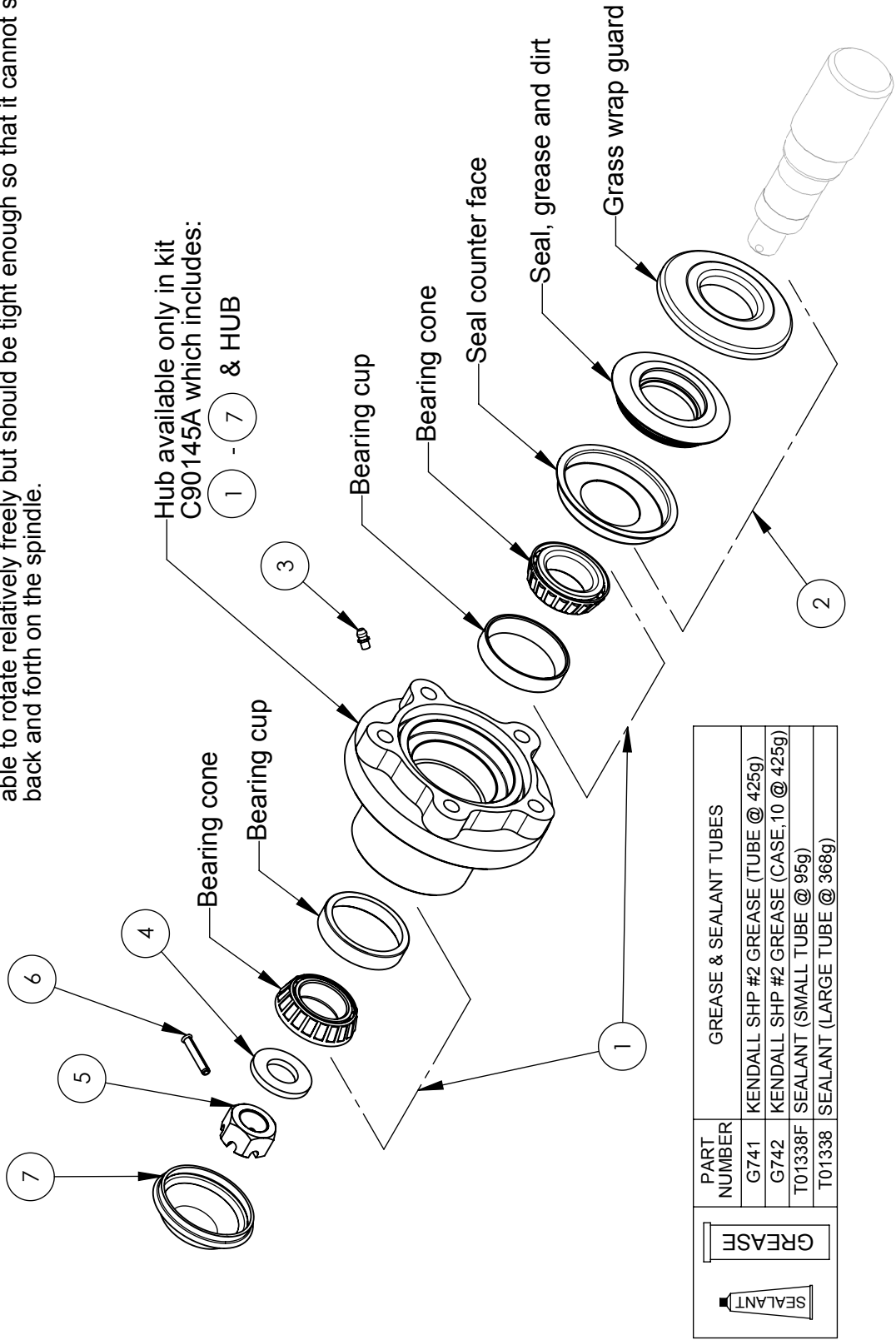
As viewed from rear of machine.

5 Bolt Coulter Hub Assembly

 IMPORTANT

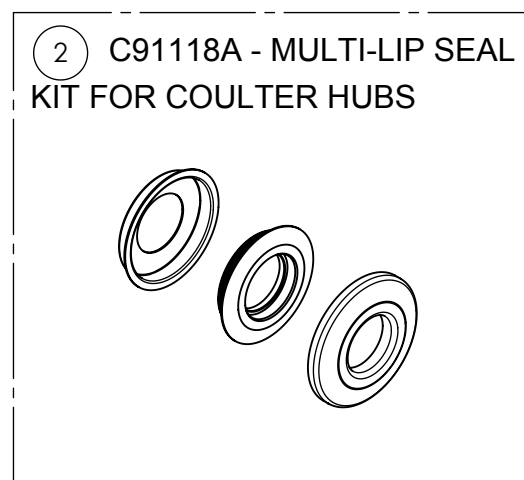
Note: Bearings must be properly grease packed.

- 1. Torque the spindle nut to 100 ft/lbs (135 Nm) to properly seat the bearings in the races. Always rotate the hub while tightening.
- 2. Back spindle nut off until it is just loose.
- 3. Re-torque to 40 (55 Nm) ft/lbs while rotating the hub.
- 4. Adjust nut to align the nearest slot with the hole in the spindle. Hub must be able to rotate relatively freely but should be tight enough so that it cannot slide back and forth on the spindle.



5 Bolt Coulter Hub Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C9014510	BEARING KIT FOR 5 BOLT COULTER HUB
2	1	C91118A	MULTI-LIP SEAL KIT FOR COULTER HUBS
3	1	GF641	1/4"-28NF GREASE FITTING
4	1	C90111	1" COIL-TECH SPINDLE WASHER
5	1	BN16SF	1" NF SLOTTED HEX NUT
6	1	BSR0415	1/4 X 1 1/2" ROLL PIN
7	1	C90102	DUST CAP

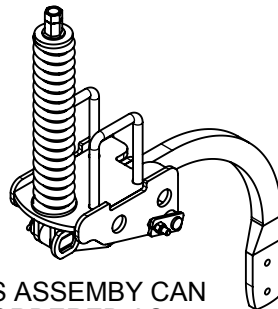




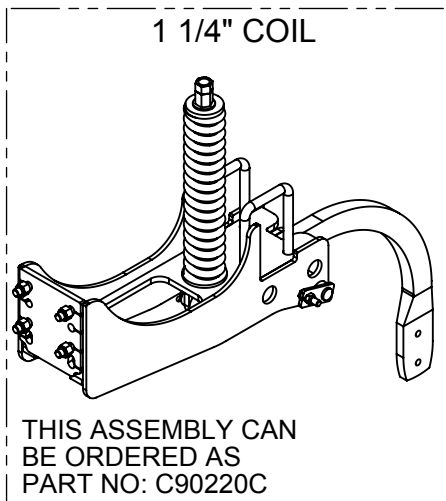
Single Spring Shank Assembly

	ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
+	1	1	C90171	SINGLE SPRING FERT-TILLAGE BEAM MOUNT
+	2	1	C90217	500LB SHANK HEAD WITH COULTER MOUNT
+	3	1	C90331	HEAVY COIL UNIMOUNT NH3 SHANK BODY
	4	1	C90172	SGL SPRING FERT SHANK INNER PIVOT
	5	1	C90173	FERT-TILL CHISEL SHANK LEAF
	6	1	GSC1016	5/8 CHROME 17 COILS-16 INCH COMP. SPRING
	7	1	C90181	NH3 SHANK SPRING CAP
	8	1	C90182	NH3 THREADED ROD EYE BOLT
	9	1	GBB125100100	1 1/4" x 1" x 1" LG. HARD BUSHING
	10	2	A60018	NYLATRON SHOULDER BUSHING
	11	1	GPSPEC160914	1" x 9 1/4" PLATE PIN PLATED
	12	2	BN10S	5/8" NC STOVER LOCK NUT
	13	1	BSC0415	1/4" x 1 1/2" COTTER PIN
	14	1	BF14HS	7/8" HARD STRUCTURAL FLAT WASHER
	15	1	BN14	7/8" NC NUT
	16	2	BU1246	U-BOLT 3/4" x 4" x 7 1/2" LG.
	17	4	BN12L	3/4" NC NYLOCK NUT
	18	1	BN14D	7/8" NC 1 1/4" LONG NUT GR 5 PLATED
	19	1	GPHF1600338H04	1" x 3 3/8" SHOULDER PIN HARDENED W/FLATS
	20	2	B1030	5/8"NC x 3" LG. HEX BOLT
	21	1	BN08L	1/2" NYLOCK NUT NC

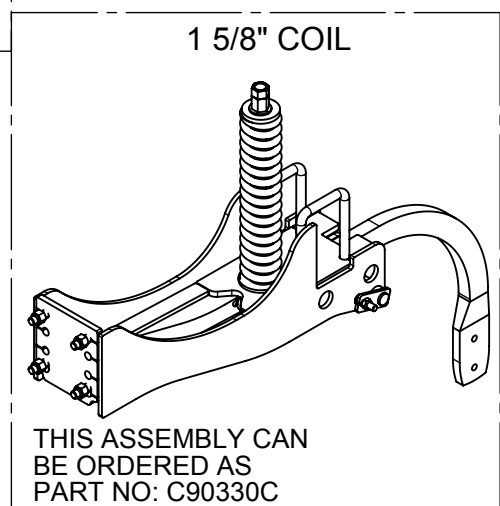
+ ALTERNATE SHANK BODY TYPES



THIS ASSEMBLY CAN
BE ORDERED AS
PART NO: C90170C



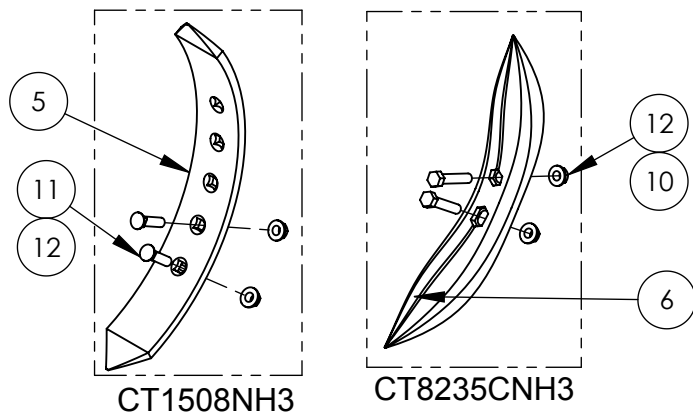
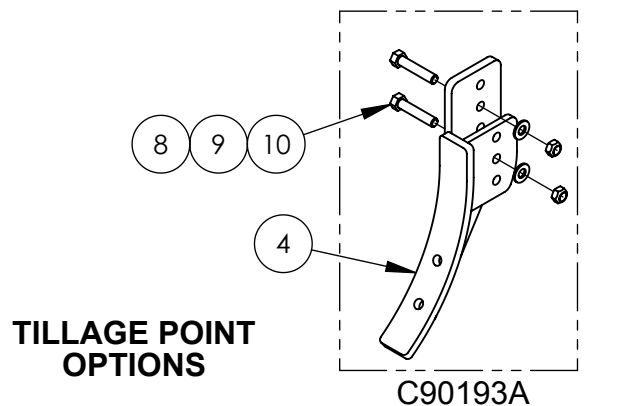
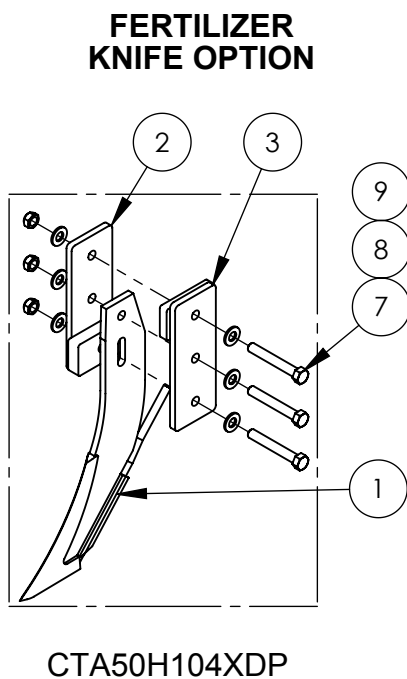
THIS ASSEMBLY CAN
BE ORDERED AS
PART NO: C90220C



THIS ASSEMBLY CAN
BE ORDERED AS
PART NO: C90330C

Shank Knife Options

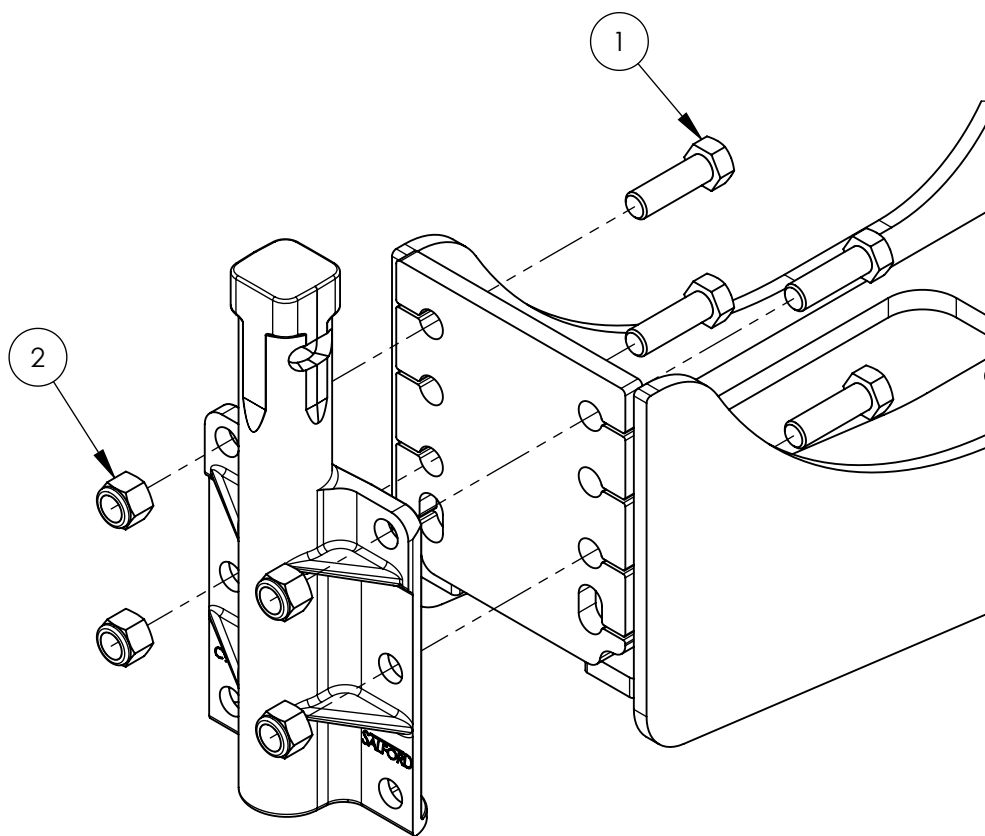
ITEM	PART NO.	DESCRIPTION
1	CTA50H104X	SLOT KNIFE - A50H STANDARD NH3 KNIFE WITH 3/8" OD PIPE
2	C90194A	NH3 KNIFE DROP KIT PLATE A (3/4" SPACER)
3	C90194B	NH3 KNIFE DROP KIT PLATE B (1/2" SPACER)
4	C90193	SIDE TO FRONT MOUNT SHANK ADAPTER
5	CT1508	3" STRAIGHT CHISEL POINT
6	CT8235	1" x 2 1/2" x 20" REVERSIBLE POINT
7	B0835H	1/2"-13NC x 3 1/2" LG. HEX BOLT GR. 8
8	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
9	BN08S	1/2"-13NC STOVER LOCK NUT
10	B0825H	1/2" x 2 1/2" GRADE 8 HEX BOLT
11	BP0820	1/2"NC x 2" PLOW BOLT GR. 5
12	BN08SF	1/2"-13NC FLANGE STOVER LOCK NUT GR. 8



TILLAGE POINT OPTIONS
REQUIRE ADAPTER (4)

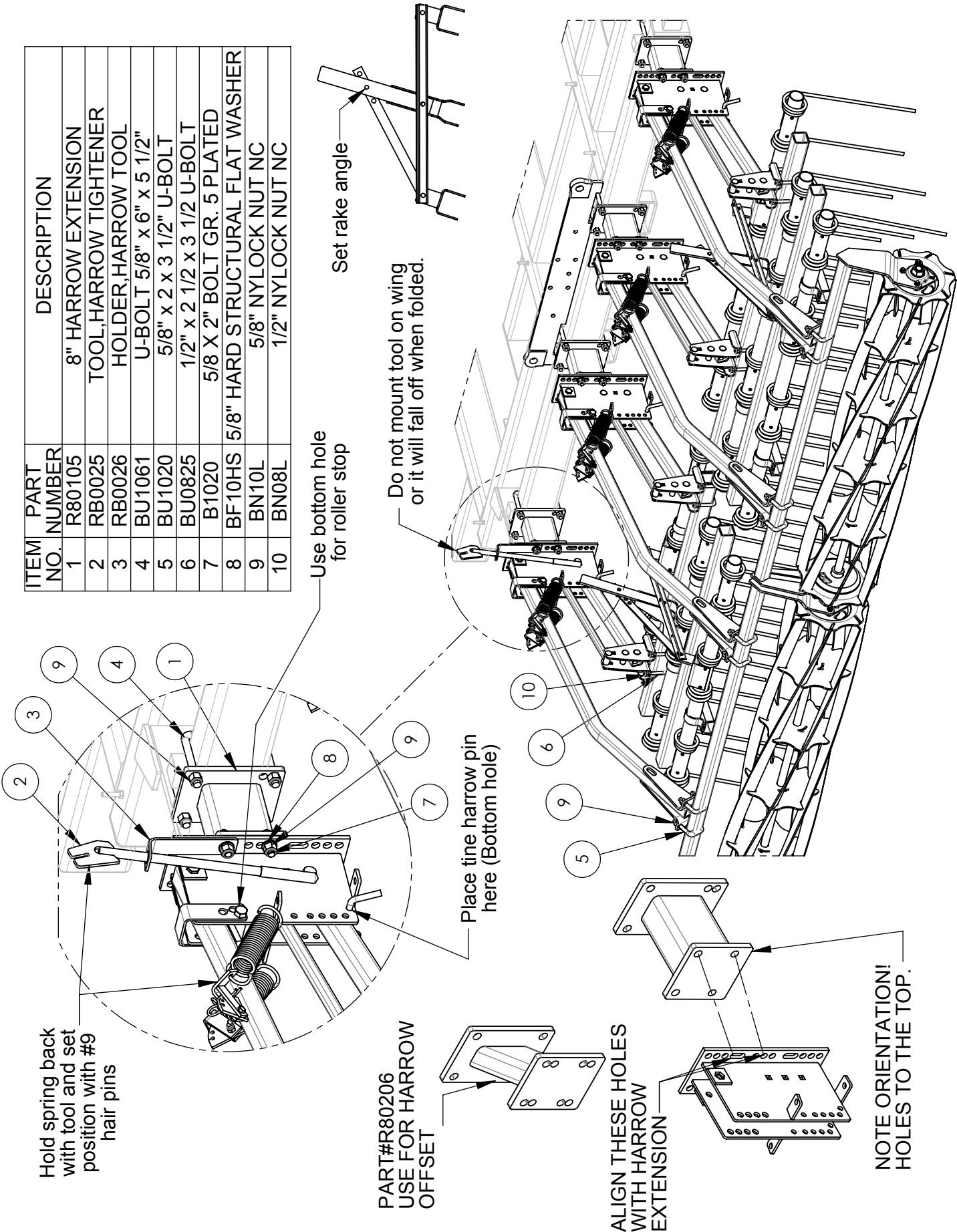
Offset Coulter Install

ITEM	QTY	PART NO.	DESCRIPTION
1	4	B1020	5/8 X 2" BOLT GR. 5 PLATED
2	4	BN10L	5/8" NYLOCK NUT NC



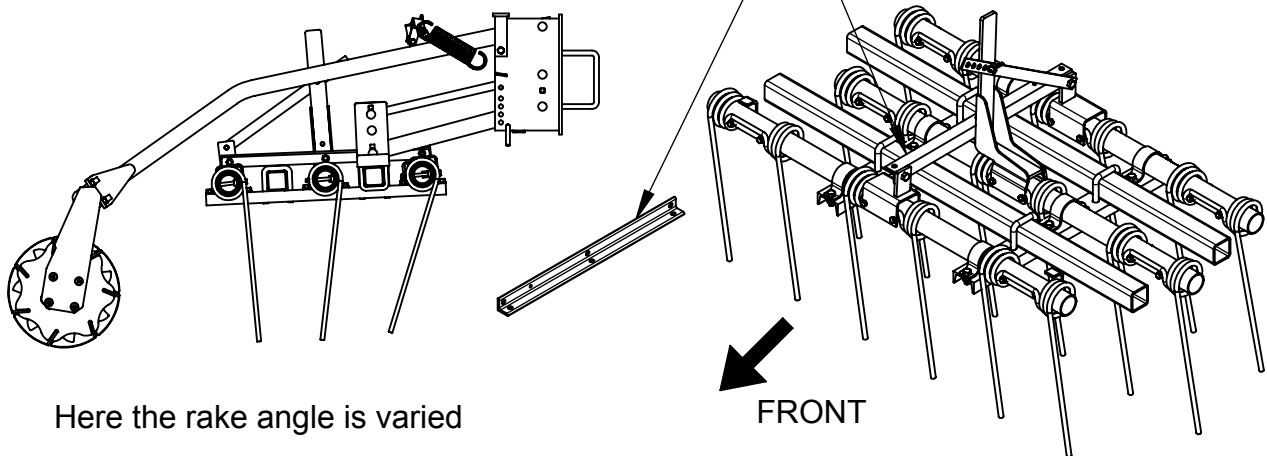
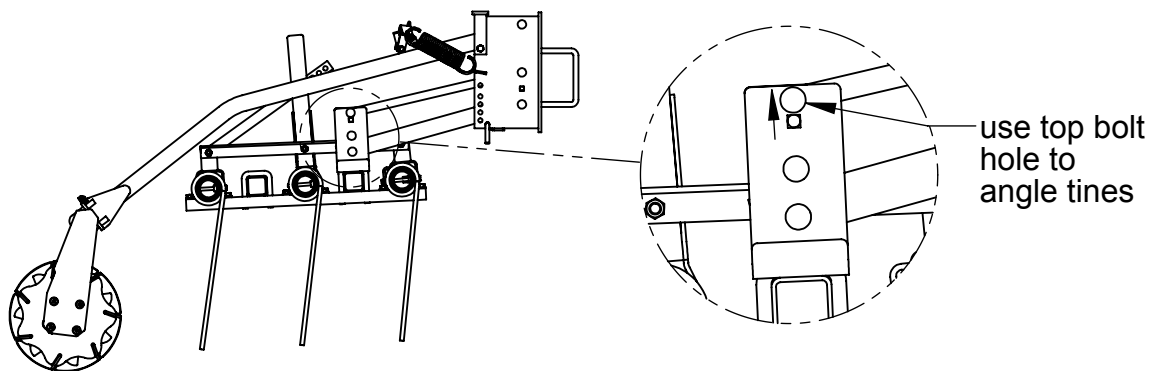
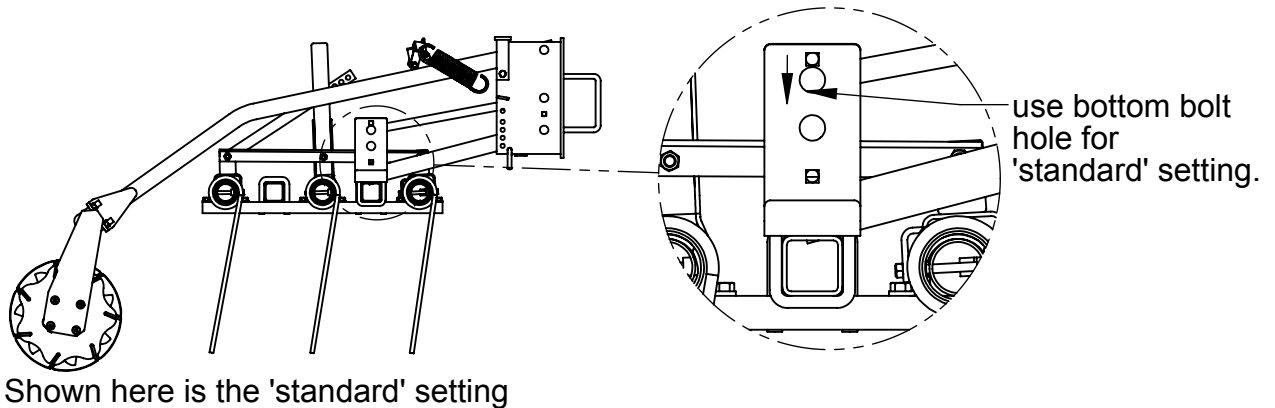
Harrow Installation

ITEM NO.	PART NUMBER	DESCRIPTION
1	R80105	8" HARROW EXTENSION
2	RB0025	TOOL, HARROW TIGHTENER
3	RB0026	HOLDER, HARROW TOOL
4	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
5	BU1020	5/8" x 2 x 3 1/2" U-BOLT
6	BU0825	1/2" x 2 1/2 x 3 1/2 U-BOLT
7	B1020	5/8 X 2" BOLT GR. 5 PLATED
8	BF10HS	5/8" HARD STRUCTURAL FLAT WASHER
9	BN10L	5/8" NYLOCK NUT NC
10	BN08L	1/2" NYLOCK NUT NC

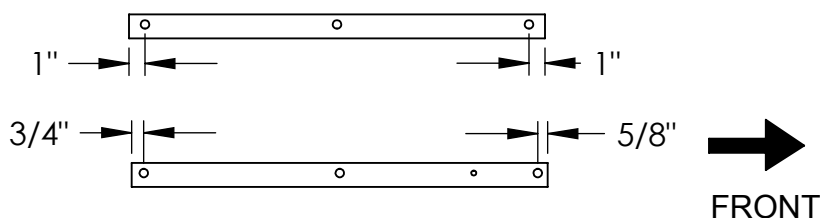


Tine Performance Settings

For better trash flow, the tines are adjustable at 2 places:

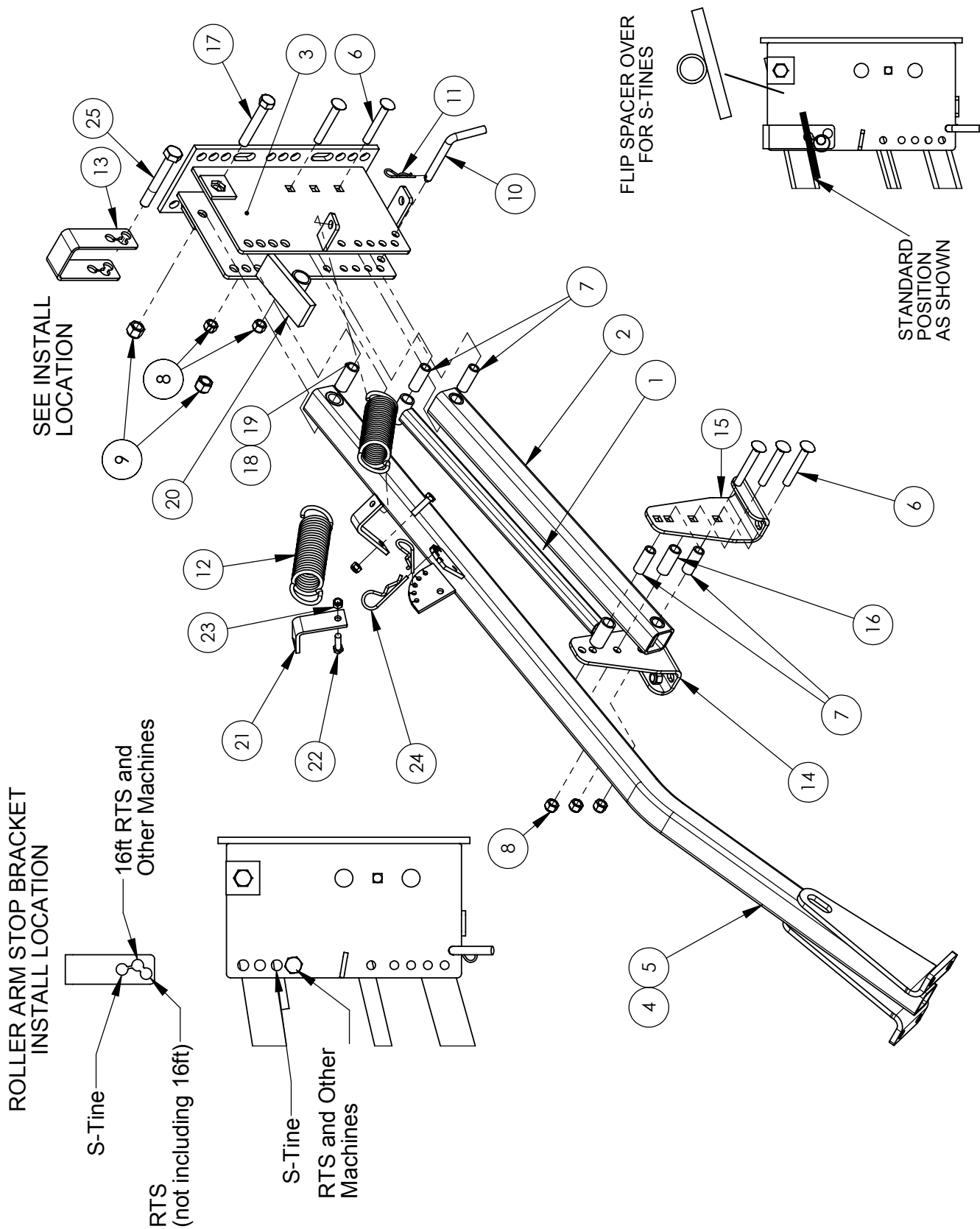


This set of holes is the 'standard' setting.



Using this set of holes will vary the rake angle as shown above.

62" Harrow Arm Assembly



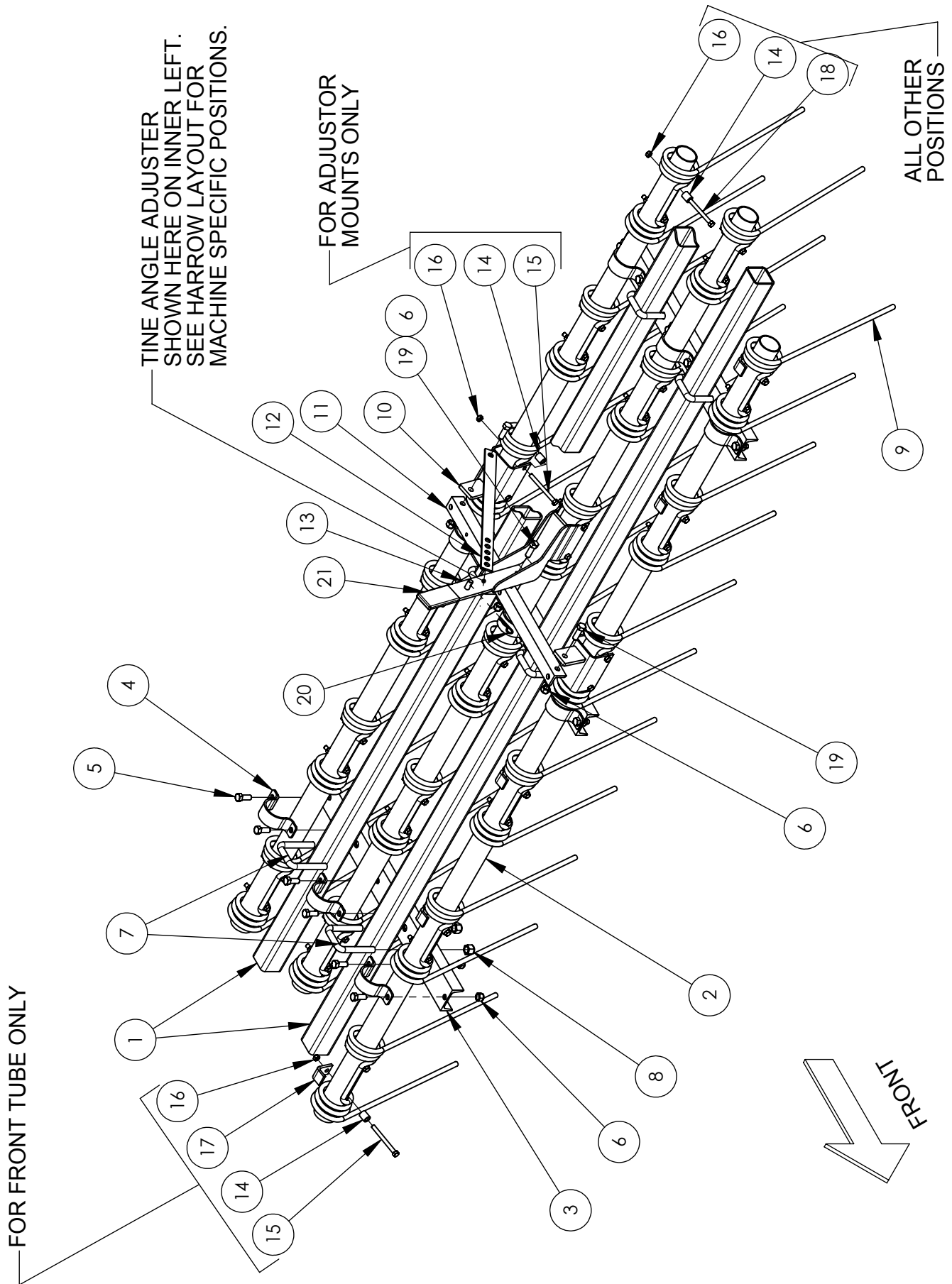
62" Harrow Arm Assembly

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	7	BN08L	1/2" NYLOCK NUT NC
9	2	BN10L	5/8" NYLOCK NUT NC
10	1	GP0800312L03	1/2" x 3 1/2" L - PIN
11	1	GHP11	#11 HAIR PIN
12	2	R0035	2" x 10" HARROW ARM SPRING
13	1	R80128	ROLLER ARM STOP BRACKET
14	1	R80037L	TINE SECTION UPRIGHT PLATE LEFT 1/2"
15	1	R80037R	TINE SECTION UPRIGHT PLATE RIGHT 1/2"
16	1	R0028	STEEL HEAD SPACER 2 1/16" 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

NOTES:

- + PLEASE NOTE - R80100 (62" HARROW ARM) IS ALSO AVAILABLE AS R80100A (THIS PART # INCLUDES (19) FOR 1/2" & (18) FOR 5/8" PIVOT BOLT AS WELL AS NEW 5/8" U-BOLTS) AND REPLACES PART# RB1125 (FOR 1/2" NYLON BUSHING AND U-BOLTS).

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)

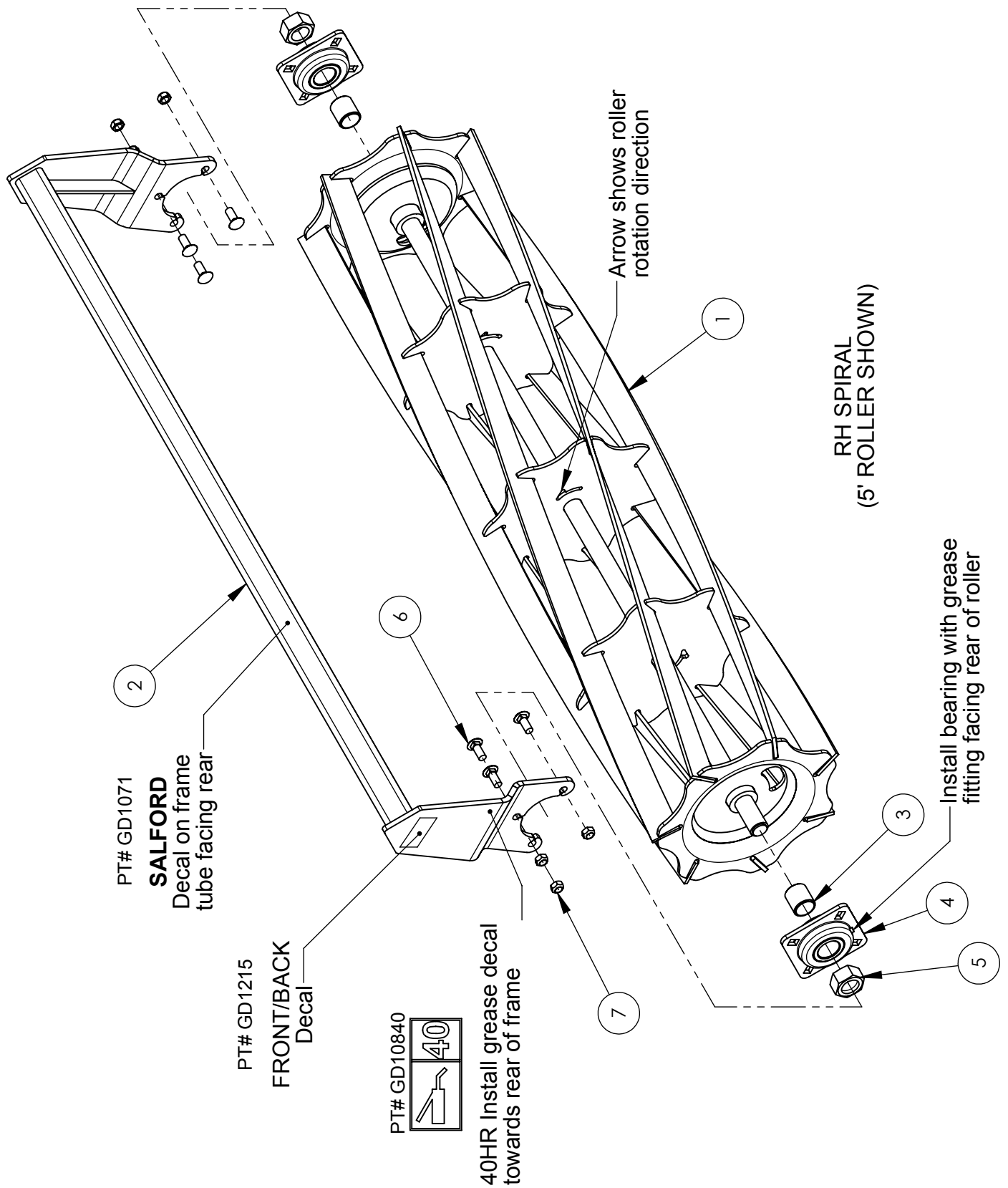
1/2" - 6 TINE HARROW ASSEMBLY PART NO. R636

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)
21	R80125	VINYL HANDLE FOR TINE ADJUSTMENT

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 7/8 LONG SPACER
15	B0640	3/8"NC x 4" LG. HEX BOLT
16	BN06S	3/8"-16NC STOVER LOCK NUT
17	R30015	LIGHT SAVER BRACKET
18	B0635	3/8"NC x 3 1/2" LG. HEX BOLT
19	B0815	1/2" x 1 1/2" HEX BOLT
20	GHP11	#11 HAIR PIN
21	R80125	VINYL HANDLE FOR TINE ADJUSTMENT

14" Roller Parts



14" Roller 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	BN20CS	1 1/4" NC CENTER STAKED 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	BN20CS	1 1/4" NC CENTER STAKED 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	BN20CS	1 1/4" NC CENTER STAKED 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

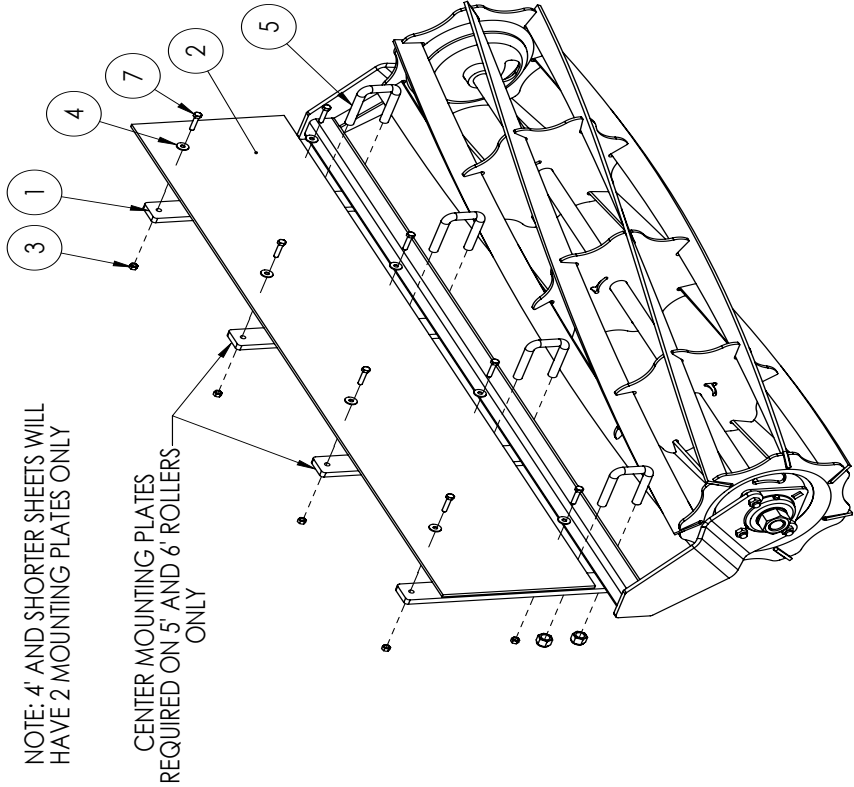
COMPLETE ASSEMBLY PART NO. MR80146(L/R)

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	BN20CS	1 1/4" NC CENTER STAKED 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

SALFORD - OPTIONAL HARROW MUD FLAP ASSEMBLY (5' DIRT SHIELD SHOWN WITH 5' ROLLER)

ITEM NO.	PART NUMBER	DESCRIPTION	5' & 6' LONG QTY.	3' & 4' LONG QTY.
1	L01328	HARROW SHIELD MOUNTING PLATE	4	2
2	R80154	5' Plastic Dirt Shield	1	AS REQ'D
3	BN05	5/16" HEX NUT	8	4
4	BF05	5/16" FLATWASHER	8	4
5	BU1020	5/8" x 2 x 3 1/2" U-BOLT	4	2
6	BN10L	5/8" NYLOCK NUT NC	8	4
7	B0515	5/16" x 1 1/2" HEX BOLT	8	4

NOTE: 4' AND SHORTER SHEETS WILL
HAVE 2 MOUNTING PLATES ONLY



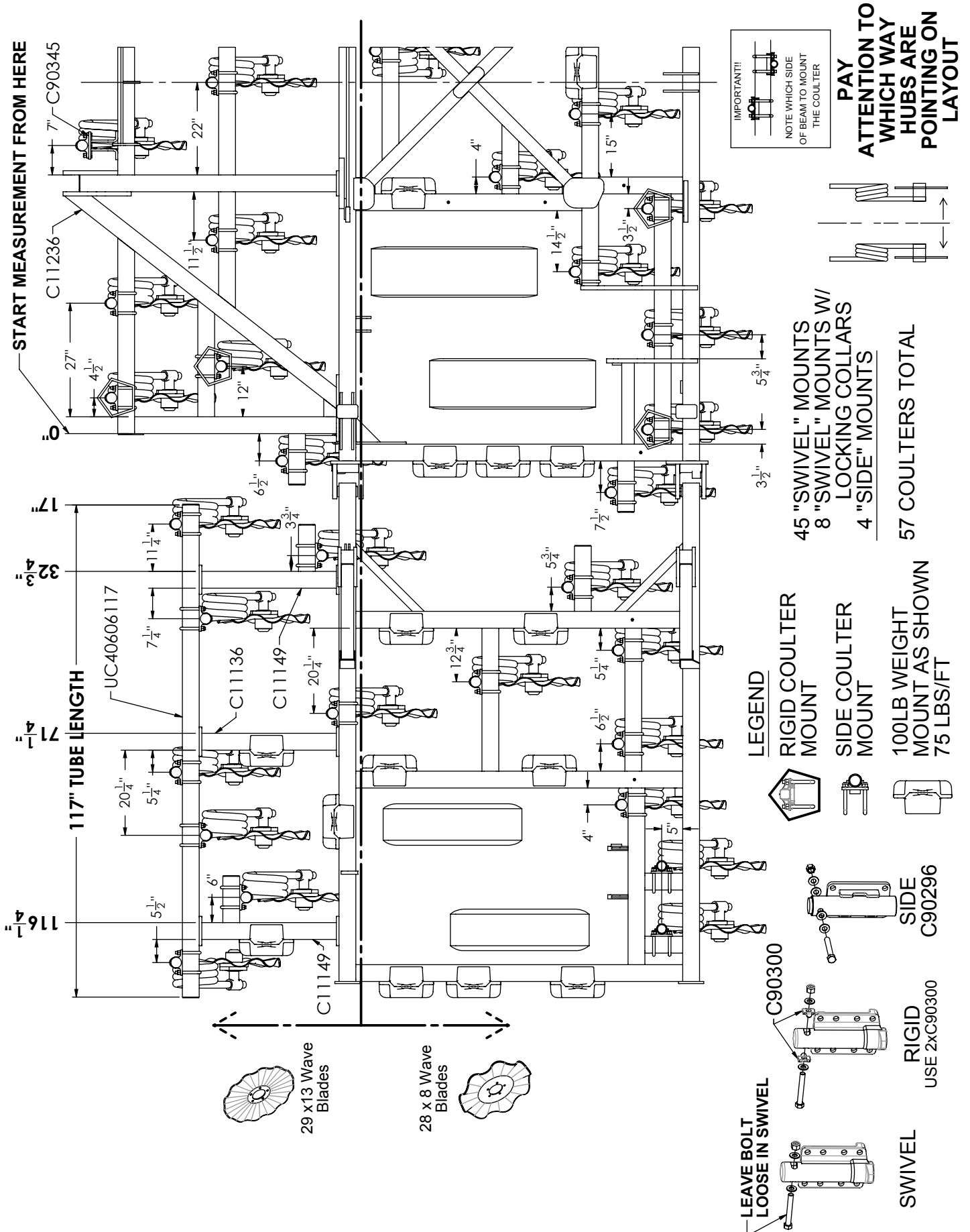
MOUNTING PLATE SHOULD
BE MAX 8" FROM THE END
OF PLASTIC SHEET

LENGTH OF ROLLER	LENGTH OF MUD FLAP REQ'D	MUD FLAP PART NUMBER	MOUNTING PLATES REQ'D
3'-0"	3'-0"	R80152	2
4'-0"	4'-0"	R80153	2
5'-0"	5'-0"	R80154	4
6'-2"	6'-0"	R80216	4

- ASSEMBLY DIRECTIONS
1. MOUNT PLATES (L01328) AS SHOWN IN BEST AVAILABLE LOCATIONS
 2. MOUNTING PLATES SHOULD BE A MINIMUM OF 8" FROM THE END OF PLASTIC SHEET
 3. CENTER PLASTIC SHEET IN MIDDLE OF HARROW
 4. DRILL 3/8 HOLES IN PLASTIC SHEET TO LINE UP WITH PREVIOUSLY INSTALLED PLATES
 5. MOUNT PLASTIC SHEET AS SHOWN

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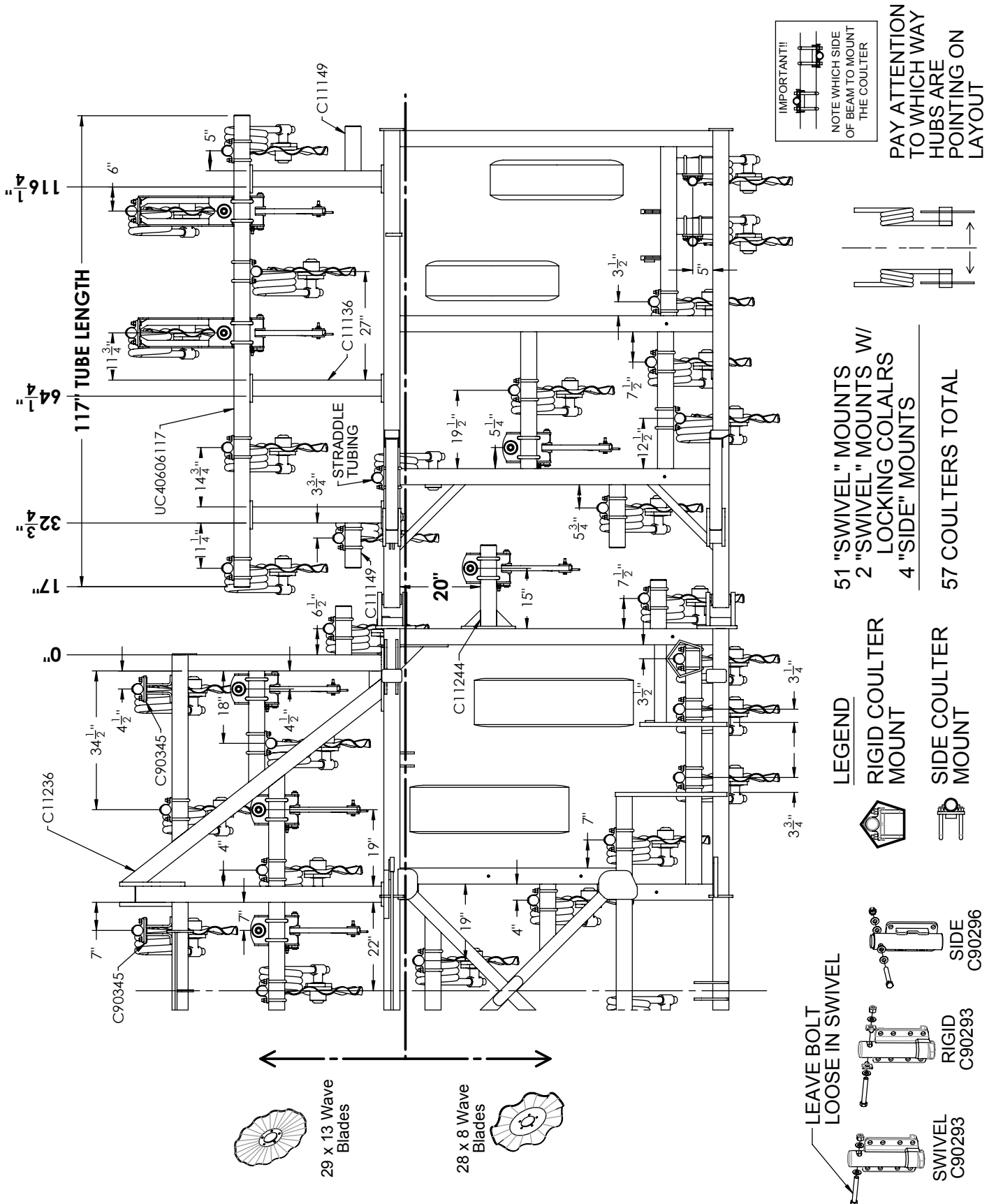
2136 Coulter Layout



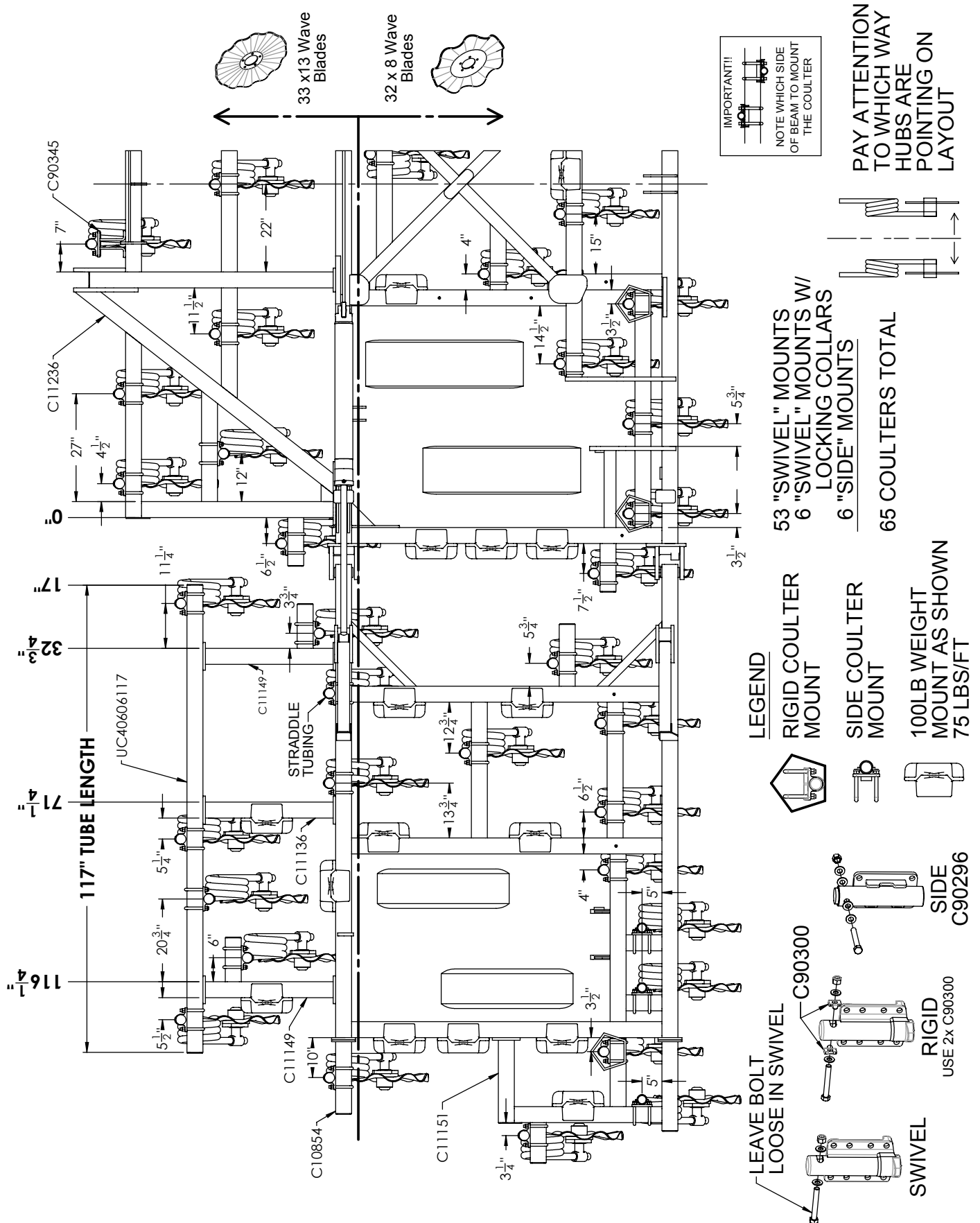




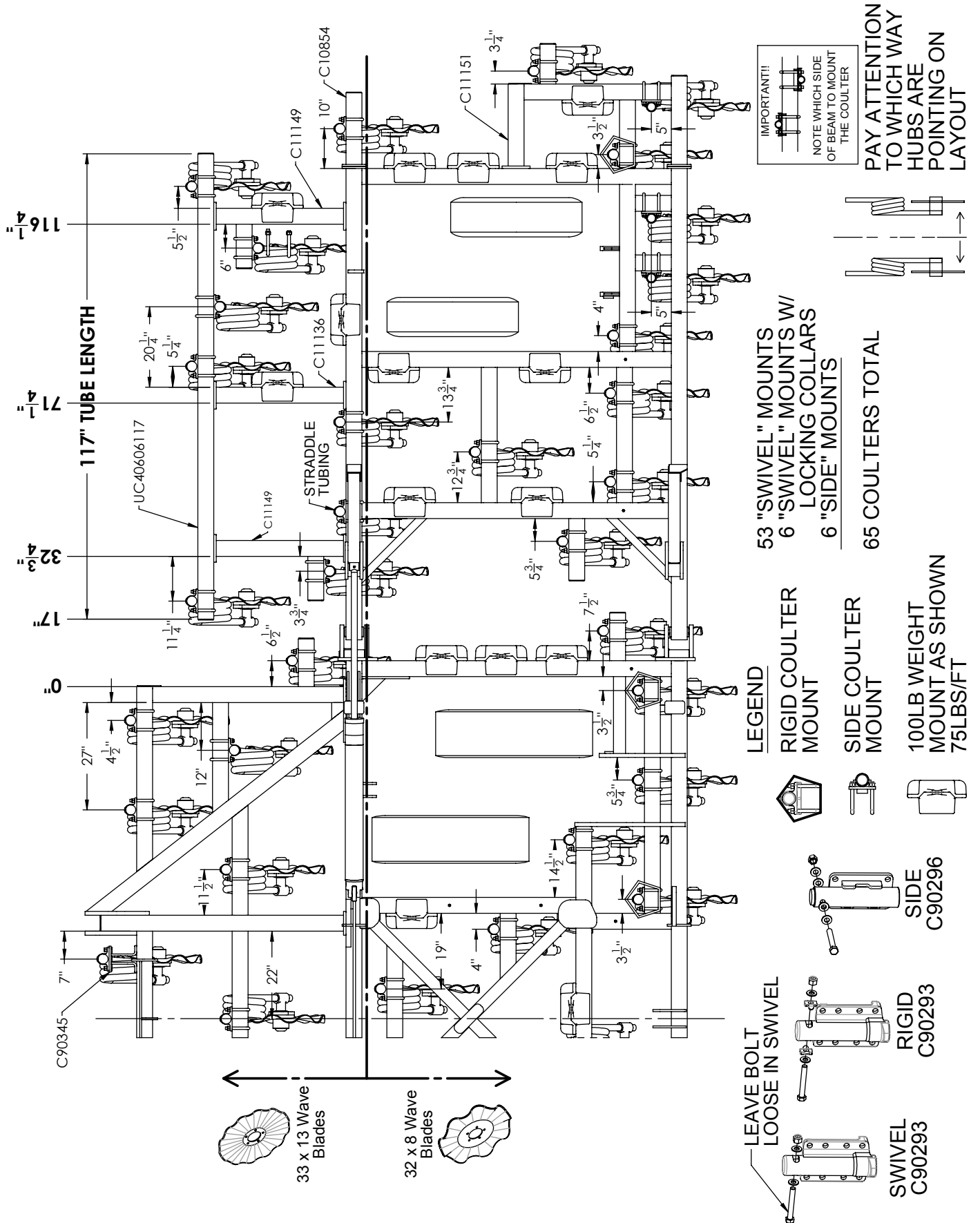
2136A NH3-Coulter Layout (14 SHANKS)

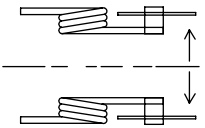


2141-3 Coulter Layout



2141-3 Coulter Layout





55 "SWIVEL" MOUNTS
4 "SWIVEL" MOUNTS W/
LOCKING COLLARS
6 "SIDE" MOUNTS

65 COULTERS TOTAL

LEGEND

RIGID COULTER MOUNT

SIDE COULTER MOUNT

Diagram illustrating three types of tool holders and their components:

- SWIVEL**: Labeled "USE 2x C90300".
- RIGID**: Labeled "USE 2x C90300".
- SIDE**: Labeled "C90296".

Legend:

- Hexagonal symbol: Tool holder.
- Circular symbol: Tool bit.

IMPORTANT!!

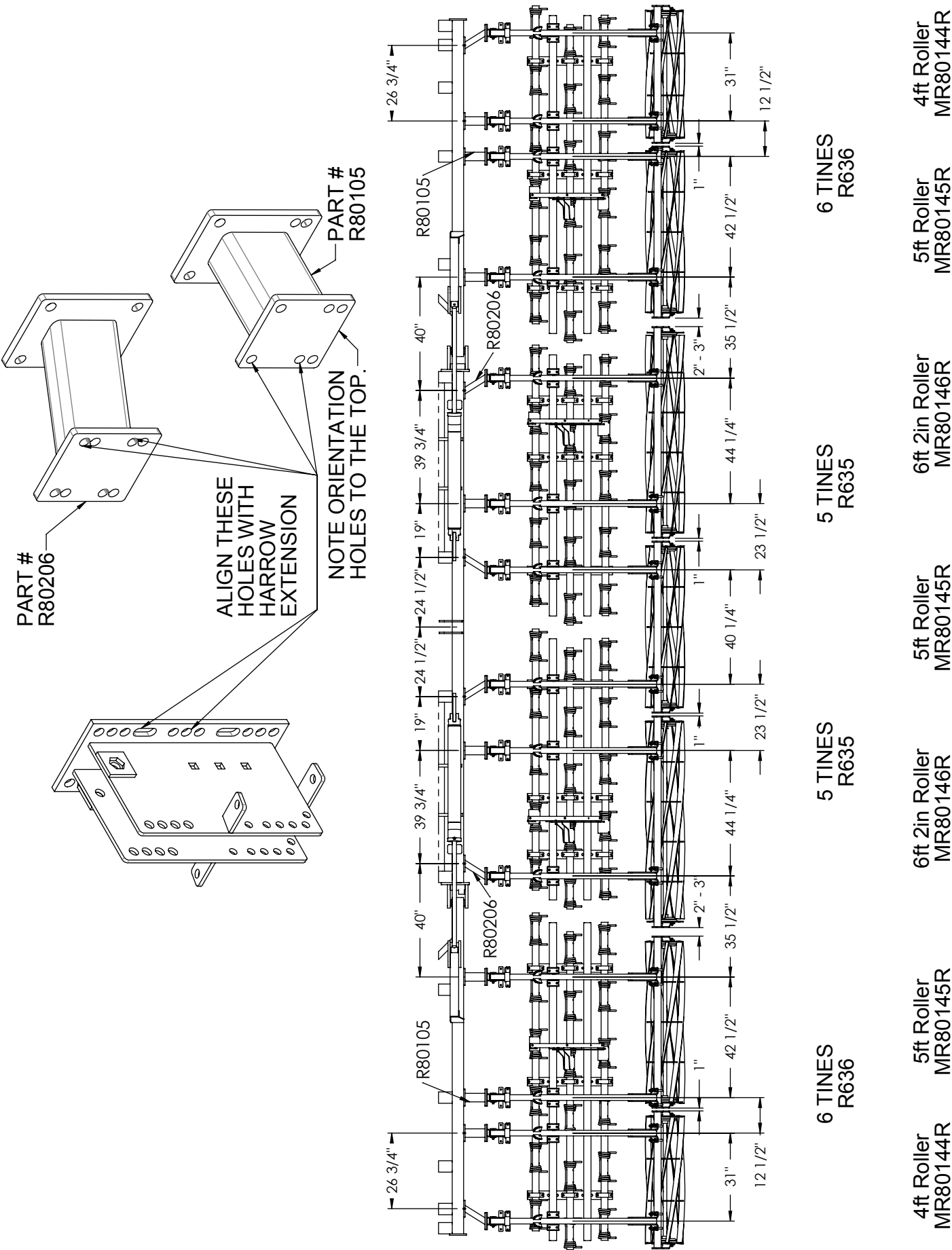


**NOTE WHICH SIDE
OF BEAM TO MOUNT
THE COULTTER**

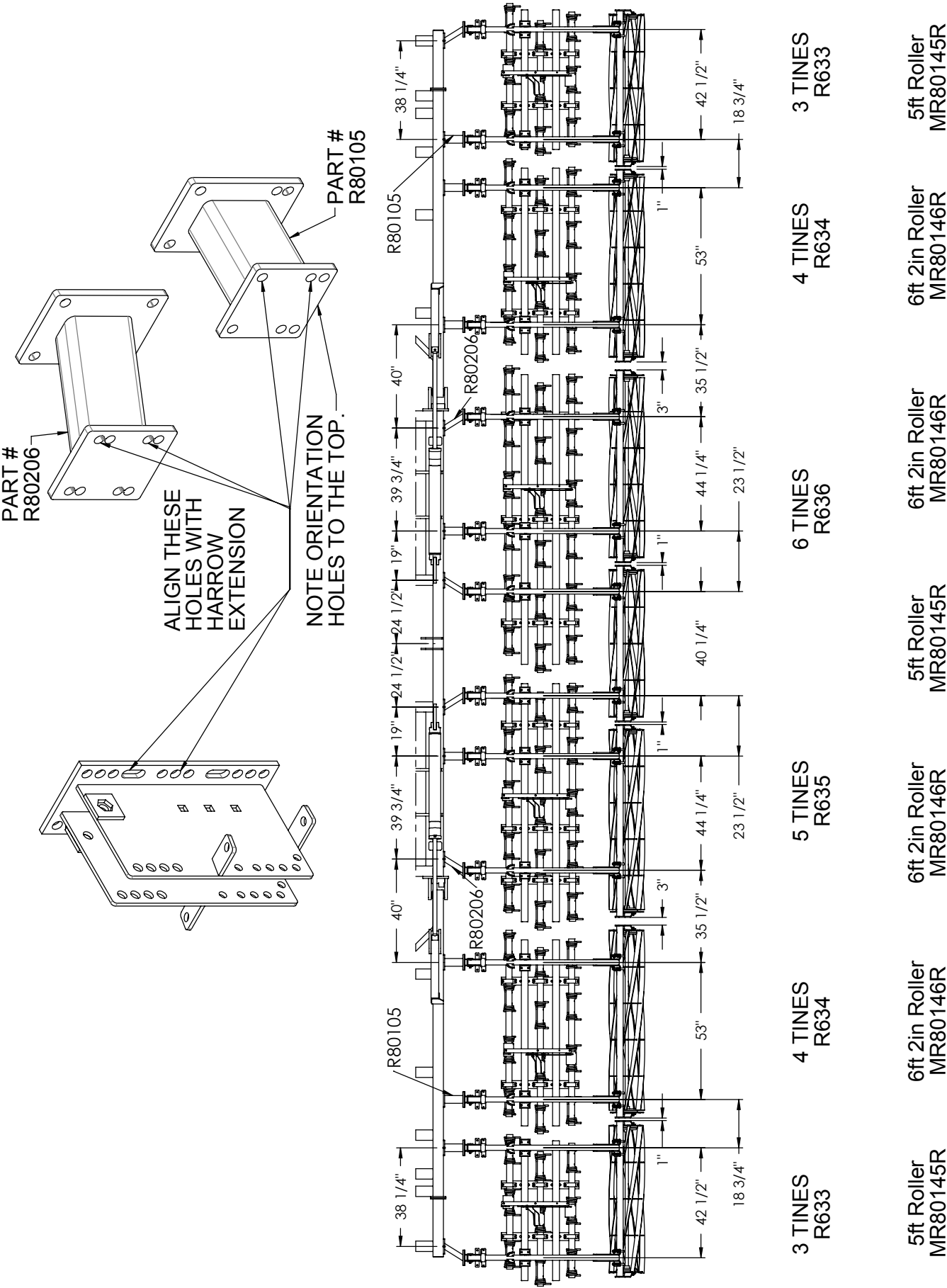
PAY ATTENTION TO WHICH WAY HUBS ARE POINTING ON LAYOUT



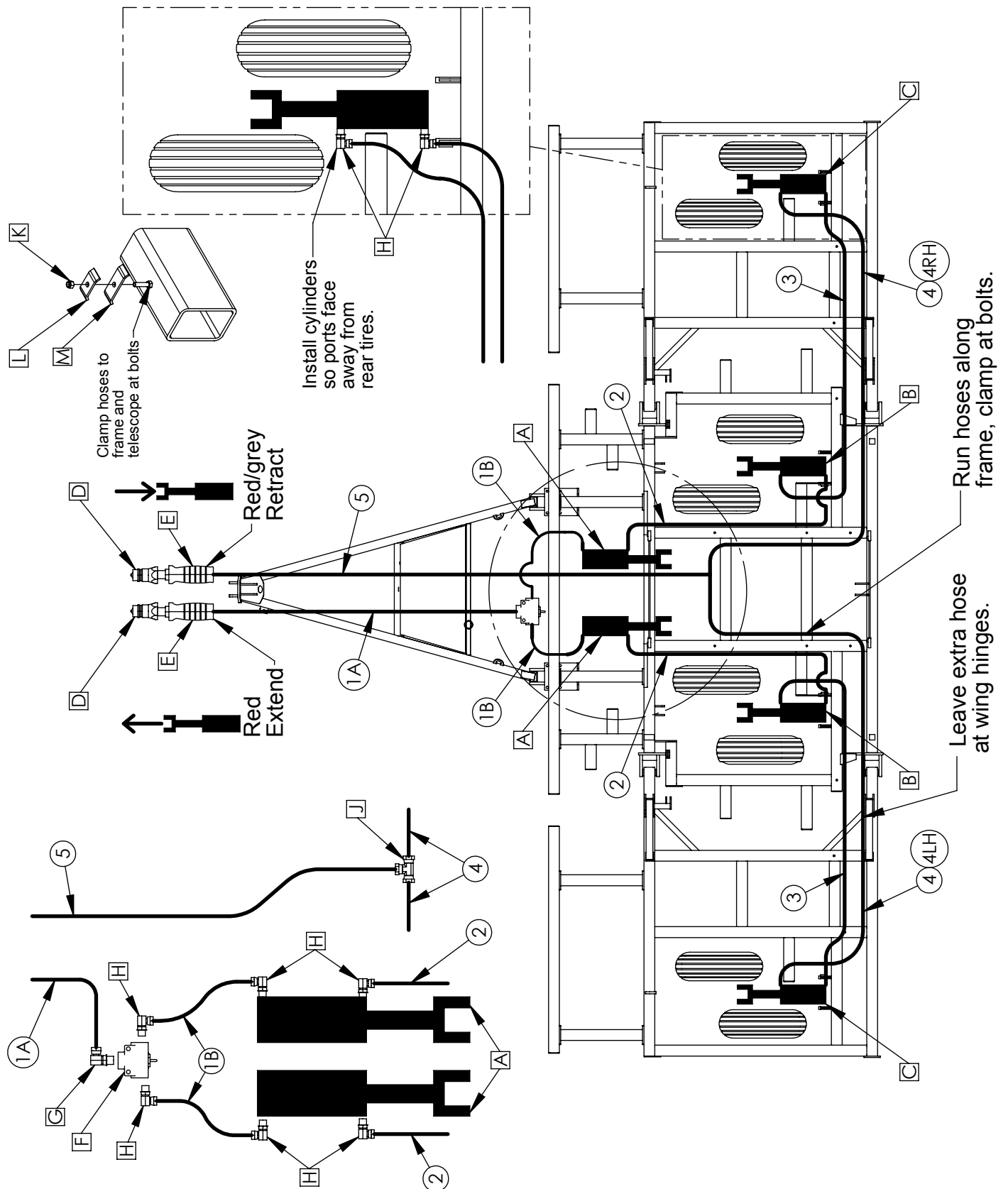
36ft Harrow Layout



41ft Harrow Layout



Axle Lift Hydraulics



Axle Lift Hydraulics

	ITEM	QTY		PART NO.	DESCRIPTION
		27'-31'	36'-41'		
CYLINDERS	A	2	0	HSR40095	4" x 9 1/2" REPHASING HYD. CYL.
	B	2	0	HSR4008	4" x 8" REPHASING HYD. CYL.
	C	2	0	HSR3708	3 3/4" x 8" REPHASING HYD. CYL.
	A	0	2	HSR4012-TRI	4" x 12" REPHASE CYL - FOR TRIPOD
	B	0	2	HSR4508	4 1/2" x 8" REPHASING HYD. CYL.
	C	0	2	HSR4008	4" x 8" REPHASING HYD. CYL.
FITTINGS	D	2	2	H80104P	1/2" M NPT PIONEER TIP
	E	2	2	HG-PT22E22R21R	RED & RED/GREY HOSE GRIPS (WITH 1/2" NPT MAIL-FEMALE)
	F	1	1	HPMSC10	STROKE CONTROL VALVE
	G	1	1	H951588	-08 ORB TO 1/2" F NPT SWIVEL ELBOW
	H	14	14	H951586	-08 ORB TO 3/8" NPT SWIVEL ELBOW
	J	1	1	H958888	1/2" NPT ALL SWIVEL TEE
	K	12	12	BN06L	3/8" NC NYLOCK NUT
	L	7	7	P0160A	HOSE CLAMP 3"
	M	5	5	P0160B	HOSE CLAMP 4"

	LABEL	QTY	ENDS (ALL NPT)	HOSE SIZE	HOSE LENGTH				FROM	TO
					27&30FT 64" TONGUE	28&31FT 48" TONGUE	36&41FT 64" TONGUE	36&41FT 48" TONGUE		
HOSES	1A	1	1/2" - 1/2"	1/2"	21'	17'	17'	17'	TRACTOR	S.C. VALVE
	1B	2	3/8" - 3/8"	3/8"	4'	2'	4'	2'	S.C. VALVE	CYL. "A"
	2	2	3/8" - 3/8"	3/8"	12' 8"	18' 2"	12' 0"	18' 2"	CYL. "A" ROD	CYL. "B" BARREL
	3	2	3/8" - 3/8"	3/8"	13'	13' 0"	15' 10"	15' 10"	CYL. "B" ROD	CYL. "C" BARREL
	4	2	3/8" - 1/2"	3/8"	22' 6"	22' 6"	-	24' 3"	CYL. "C" ROD	RETURN TEE
	4LH	1	3/8" - 1/2"	3/8"	-	-	25'	-	CYL. "C" ROD	RETURN TEE
	4RH	1	3/8" - 1/2"	3/8"	-	-	23' 6"	-	CYL. "C" ROD	RETURN TEE
	5	1	1/2" - 1/2"	1/2"	18' 6"	21' 3"	18' 6"	21' 3"	RETURN TEE	TRACTOR

CHARGING THE CIRCUIT

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

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

1. Prop cylinders with blocks of wood, be sure that all cylinders can extend completely without striking anything.
 2. Connect hoses to tractor.
 3. Extend cylinders and hold lever for 2-3 minutes. This will purge the air from the circuit. (The lift cylinders have a port that allows oil to pass when completely extended.)
 4. The circuit is now free from air. Install Rod end Pins. Connect tongue telescope.
- Whenever air could have entered the cylinders, repeat above steps to purge circuit.
 - Test wing fold and adjust hose droop at wings if necessary.

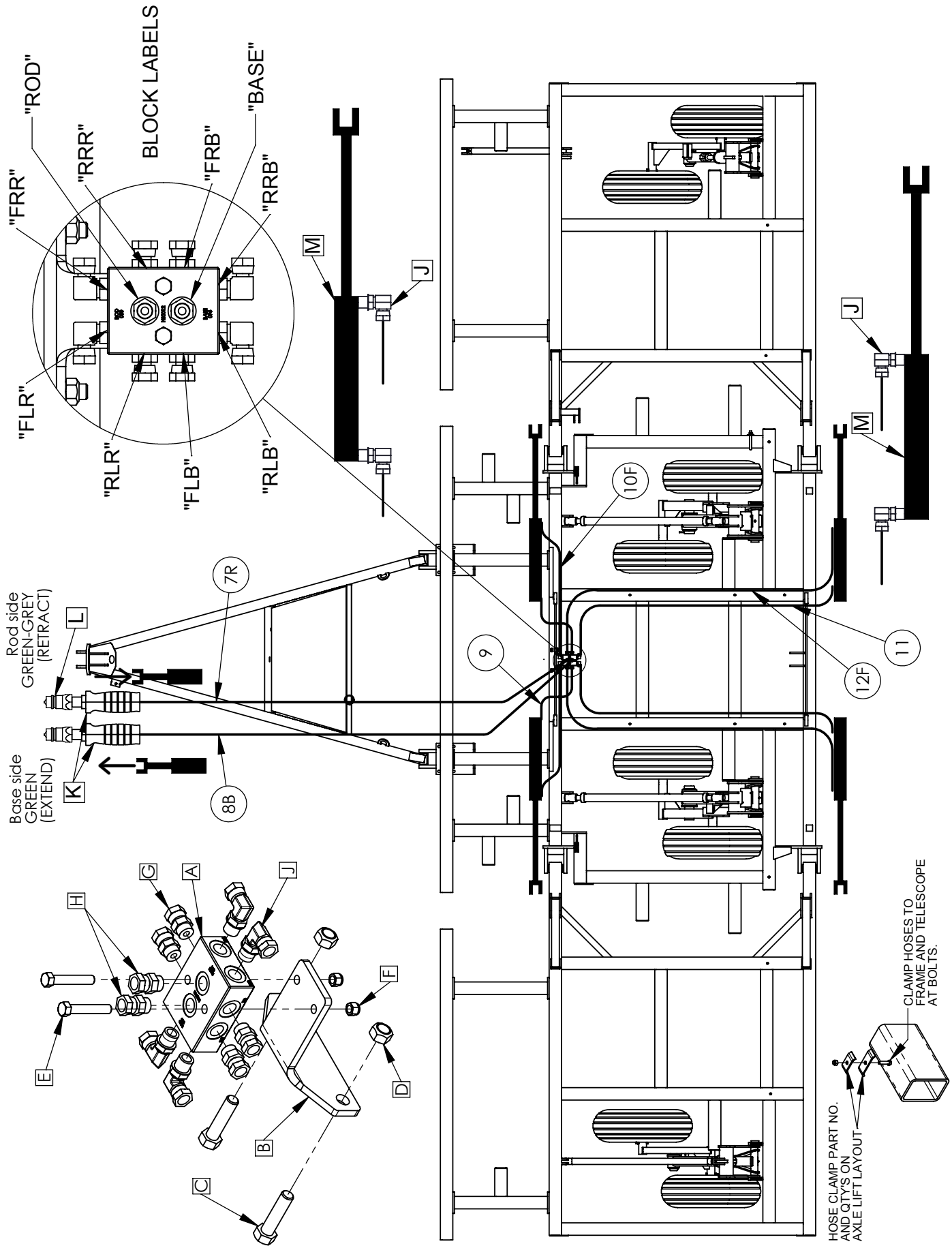


Route hoses
behind tower



Leave a droop in hose at wing hinge.

Wing Fold Hydraulics



Wing Fold Hydraulics

FITTINGS LIST					
ITEM.	QTY			PART NO.	DESCRIPTION
	27-30FT 64" TONGUE	28-31FT 48" TONGUE	36-41FT		
A	1	1	1	H00012	3 SECTION WING FOLDING MANIFOLD
B	1	1	1	A60079F	HYDRAULIC MANIFOLD BRACKET
C	2	2	2	B1025	5/8"-11NC x 2 1/2" HEX BOLT
D	2	2	2	BN10L	5/8" NYLOCK NUT NC
E	2	2	2	B0725	7/16" X 2 1/2" LG. GRADE 5 HEX BOLT
F	2	2	2	BN07L	7/16" NYLOCK NUT NC
G	4	4	4	H930586	-08M ORB TO 3/8" F NPT SWIVEL
H	2	2	2	H930588	-08M ORB TO 1/2" F NPT SWIVEL
J	12	12	12	H951586	-08 ORB TO 3/8" NPT SWIVEL ELBOW
K	1	1	1	HG-PT24E24R21R	GREEN EXTEND/GREEN-GREY RETRACT HOSE GRIPS
L	2	2	2	H80104P	COUPLER 1/2" NPT MALE PIONEER
M	4	0	0	HS3524	3 1/2" BORE X 24" STROKE HYD. CYLINDER
M	0	4	0	HS4024	4" BORE X 24" STROKE HYD. CYLINDER
M	0	0	4	HS4036	4" BORE X 36" STROKE HYD. CYLINDER

HOSE LIST									
LABEL	QTY	ENDS (ALL NPT)	HOSE SIZE	HOSE LENGTH				FROM	TO
				27ft & 30ft 64" TONGUE	28ft & 31ft 48" TONGUE	36ft & 41ft 64" TONGUE	36ft & 41ft 48" TONGUE		
7R (Green-Grey)	1	1/2" - 1/2"	1/2"	20'	21' 3"	20'	21' 3"	Tractor	Manifold "ROD"
8B (Green-Green)	1	1/2" - 1/2"	1/2"	20'	21' 3"	20'	21' 3"	Tractor	Manifold "BASE"
9	2	3/8" - 3/8"	3/8"	1' 10"	1' 10"	2' 6"	2' 6"	Manifold 'FLB' & 'FRB'	Front Barrel
10F	2	3/8" - 3/8"	3/8"	4' 5"	4' 5"	6' 2"	6' 2"	Manifold 'FLR' & 'FRR'	Front Rod
11	2	3/8" - 3/8"	3/8"	8' 5"	8' 5"	8' 9"	8' 9"	Manifold 'RLB' & 'RRB'	Rear Barrel
12F	2	3/8" - 3/8"	3/8"	10' 5"	10' 5"	11' 5"	11' 5"	Manifold 'RLR' & 'RRR'	Rear Rod

CHARGING FOLD CYLINDERS

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

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

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

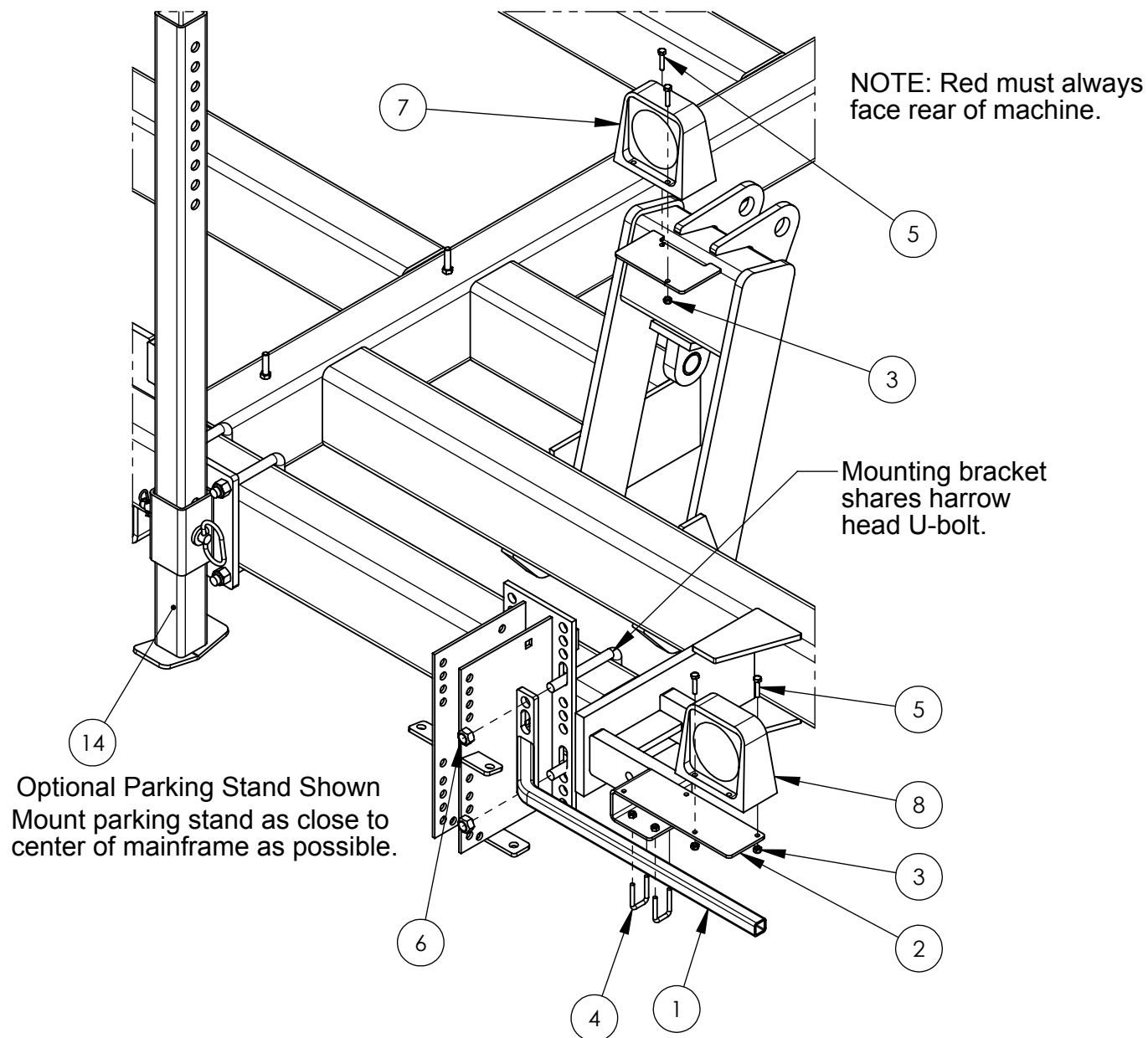
Whenever air could have entered the cylinders, repeat the process above to purge circuit.

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

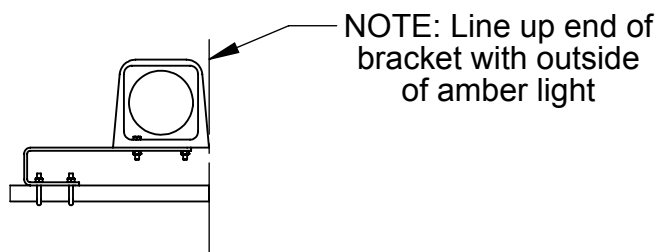


Fig 1. When charging the circuit, prop up cylinder with block of wood. Be sure the rod can extend freely without striking anything.

Lights, SMV & Parking Stand Installation



NOTE: Use stover lock nuts when mounting light bracket to harrow head.



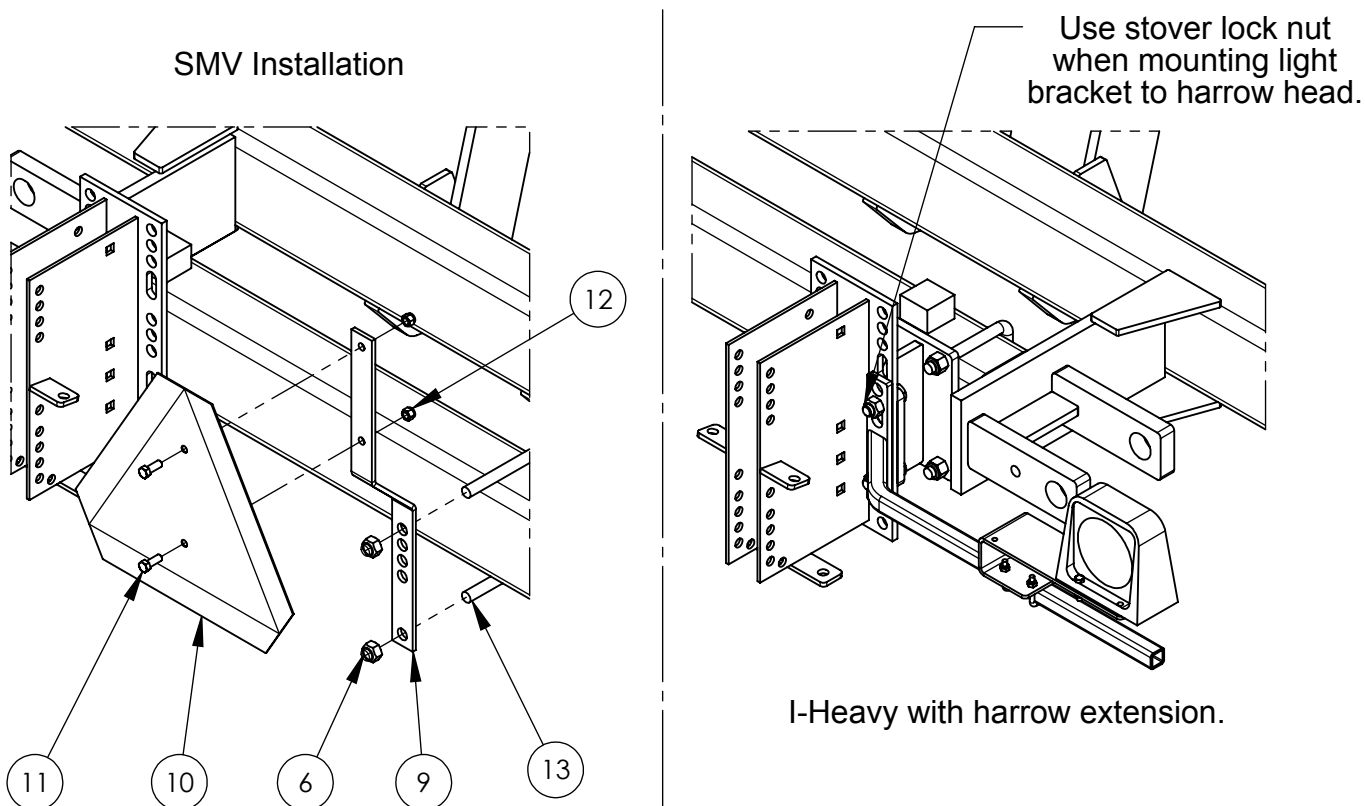
Lights, SMV & Parking Stand Installation

	ITEM	QTY	PART NO.	DESCRIPTION
	1	2	A60054	LIGHT BRACKET (LONG)
	2	2	L00425	OUTSIDE LIGHT MOUNTING PLATE
	3	16	BN04L	1/4" LOCK NUT
	4	4	BU0410	1/4 x 1" x 1 1/2" U-BOLT
	5	8	B0412	1/4"NC x 1 1/4" HEX BOLT
	6	6	BN10S	5/8" NC STOVER LOCK NUT
	7	2	GL767762-R	RED LIGHT
	8	2	GL767762-AA	ORANGE LIGHT
	9	1	L01403	OFFSET SMV MOUNTING BRACKET
	10	1	GAP103NS	SMV SIGN
	11	2	B0610	3/8" NC x 1" LG. HEX BOLT GR.5
	12	2	BN06L	3/8"-16NC LOCK NUT
	13	1	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
+	14	1	C5509	Standard Parking Stand Set for mounting on 6" beam
++	15	1	GL767762	SALFORD WESBAR LIGHT KIT

+Optional Rear Parking Stand with 5000LB Jack (kit KCRP5000) replaces C5509

++GL767762 includes lights (GL767762-R & GL767762-AA) and wiring.

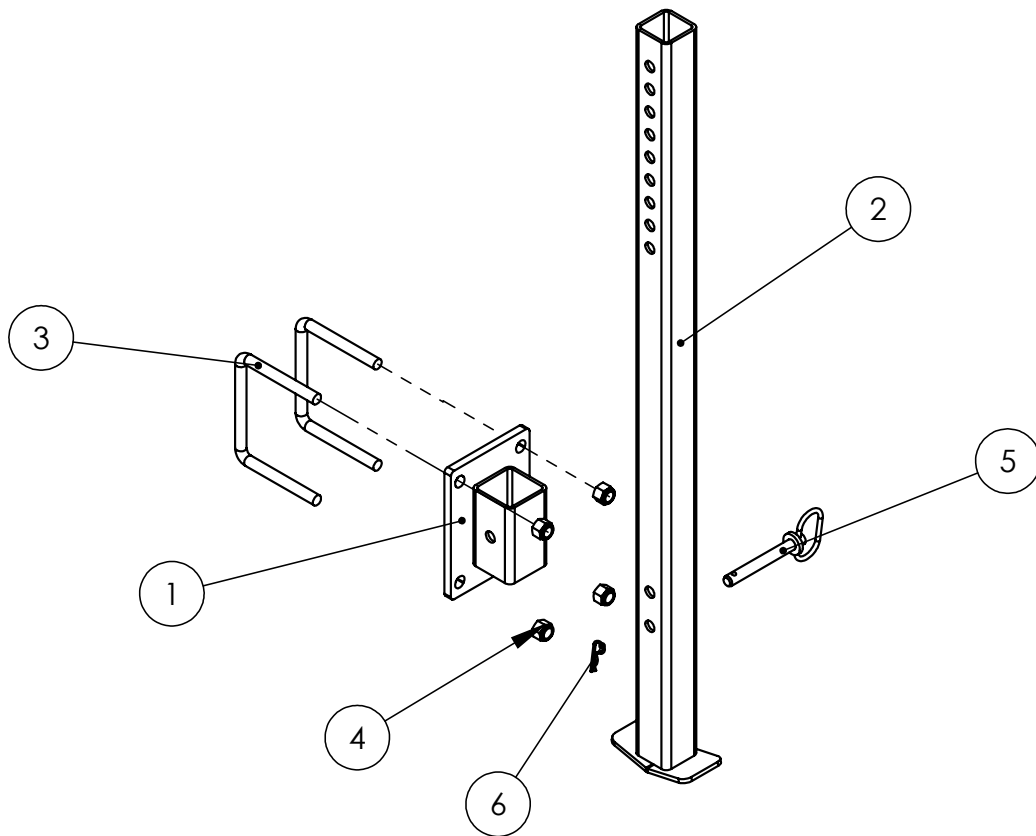
NOTE: Have someone watching for collisions when folding for the first time.



Lights, SMV & Parking Stand Installation

Optional Parking Stand C5509

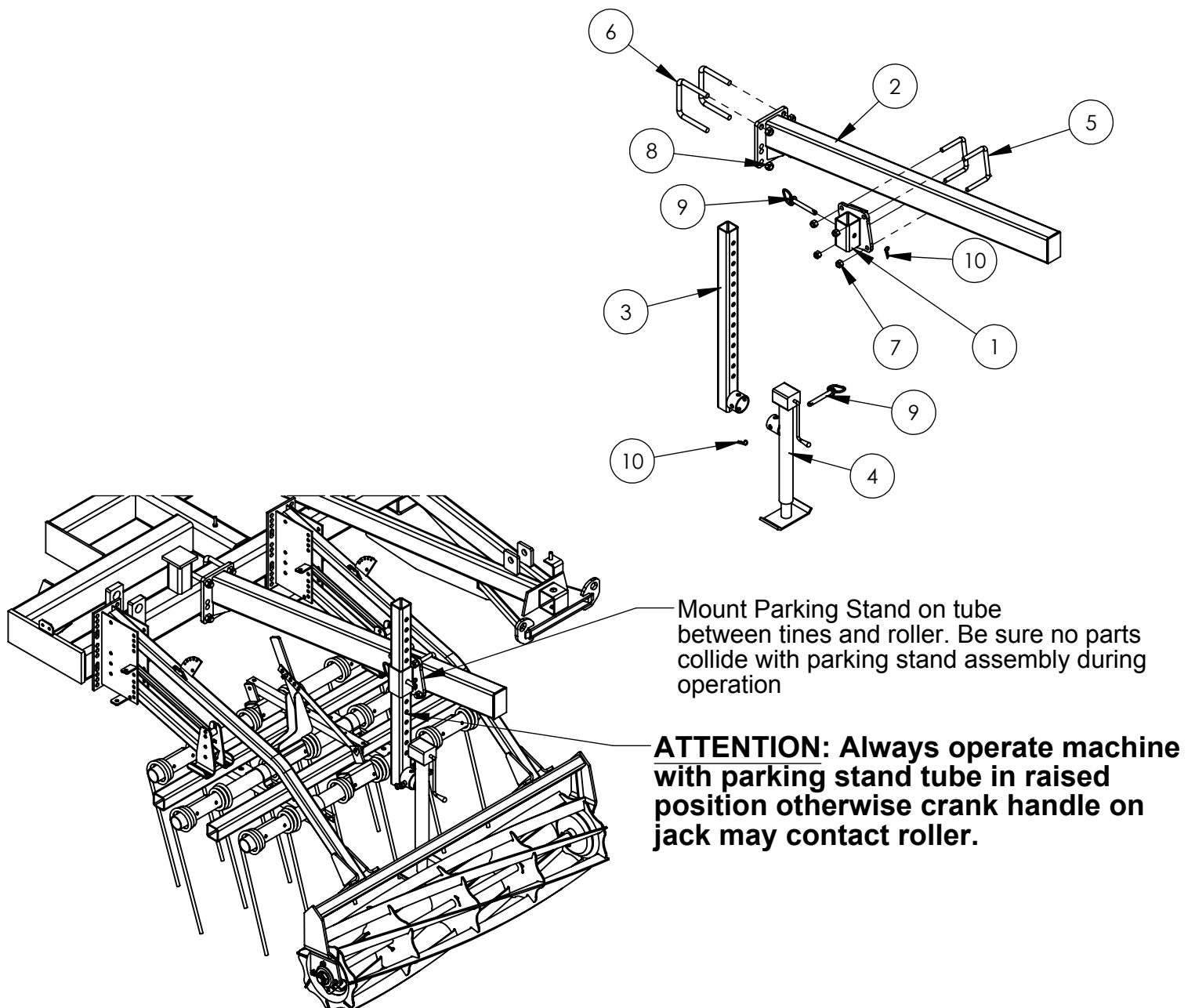
ITEM	QTY	PART NO.	DESCRIPTION
1	1	C5507	REAR PARKING STAND MOUNT FOR 6" BEAM
2	1	C5508	550 PARKING STAND
3	2	BU1061	U-BOLT 5/8" x 6" x 5 1/2"
4	4	BN10L	5/8" NYLOCK NUT NC
5	1	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
6	1	GHP11	#11 HAIR PIN



Lights, SMV & Parking Stand Installation

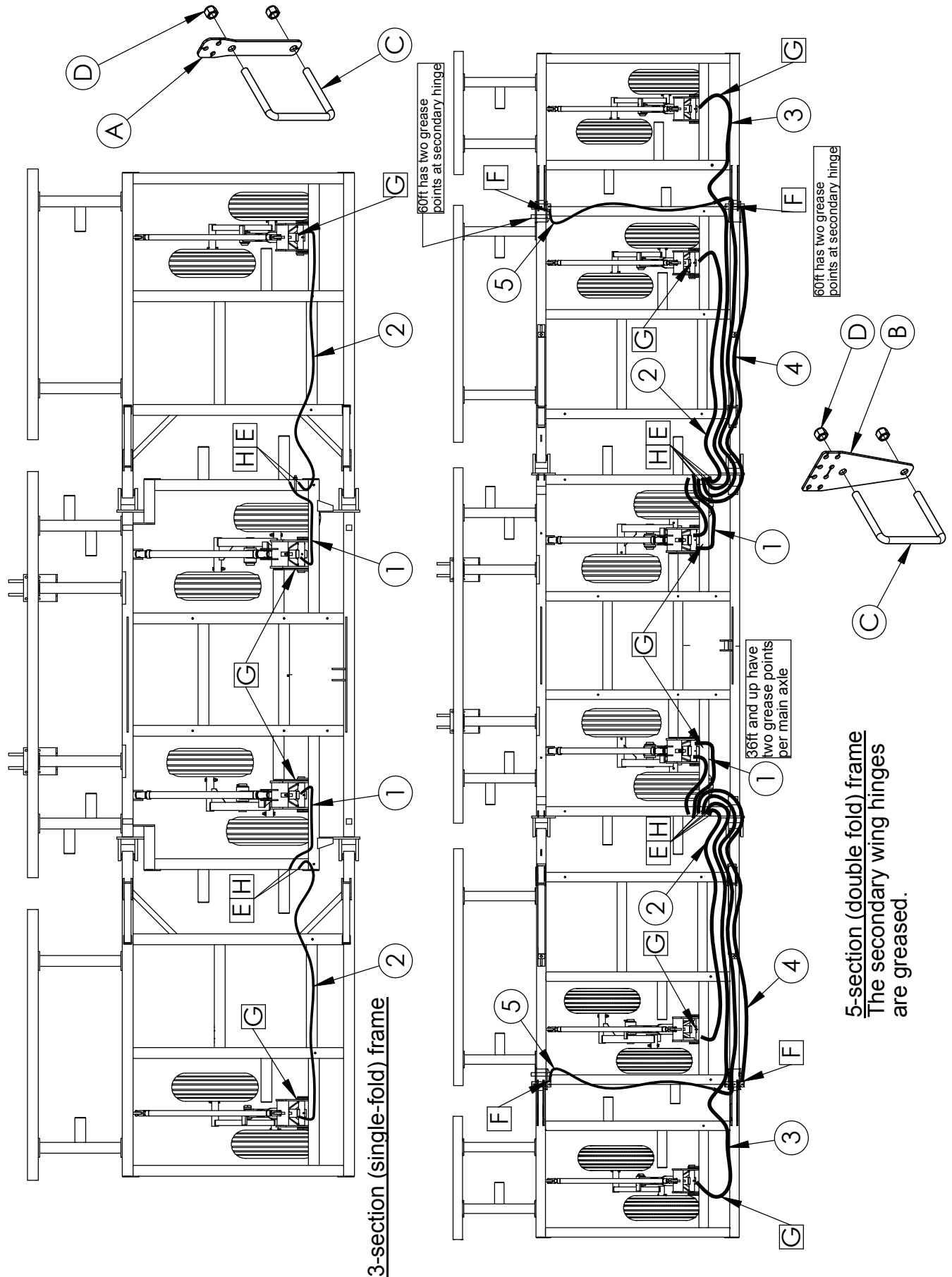
Optional Parking Stand with 5000LB Jack KCRP5000

ITEM	QTY	PART NO.	DESCRIPTION
1	1	A60137	REAR JACK STAND MOUNT
2	1	A60136	REAR JACK STAND ARM
3	1	A60138	REAR JACK STAND
4	1	GJ5000S	5000 LB TONGUE JACK
5	2	BU1050	5/8" x 5 x 4 1/2" U-BOLT
6	2	BU1260	3/4" x 6 x 6" U-BOLT
7	4	BN10L	5/8" NYLOCK NUT NC
8	4	BN12S	3/4" STOVER LOCK NUT
9	2	GP100414C03	5/8" DIA x 4 1/4" PIN RING & WASHER
10	2	GHP11	#11 HAIR PIN



Grease Bank

Tie strap along hydraulic hoses.



Grease Bank

HOSES					
HOSE LABEL	18 - 30ft Machine	41ft Single fold Machine	41ft Double fold Machine	50ft Double fold Machine	60ft Double Fold Machine
#1	6' 3"	6' 3"	4'	4'	4' 6"
#2	12' 6"	17'	11'	12' 6"	13' 6"
#3	-----	-----	19' 6"	23'	26'
#4	-----	-----	15'	16' 6"	17' 9"
#5	-----	-----	19' 6"	21' 6"	22' 9"
	KIT PART# H5724GA	KIT PART# H5740GA	KIT PART# H5741GA	KIT PART# H5750GA	KIT PART# H5760GA
	2006 and Prior H5724G-1	2006 and Prior H5740G-1	2006 and Prior H5741G-1	2006 and Prior H5750G-1	

HARDWARE		
ITEM	PART NO.	DESCRIPTION
A	L00734	BRACKET FOR SINGLE FOLD
B	A60072	BRACKET FOR DOUBLE FOLD
C	BU1061	5/8 x 4 x 6" U-CLAMP
D	BN10L	5/8" NYLOCK NUT
E	5000-2	Coupling
F	5502-2	1/8" Elbow - 90°
G	5503-2	1/8" Elbow - 45°
H	GF1610	1/8" NPT GREASE FITTING

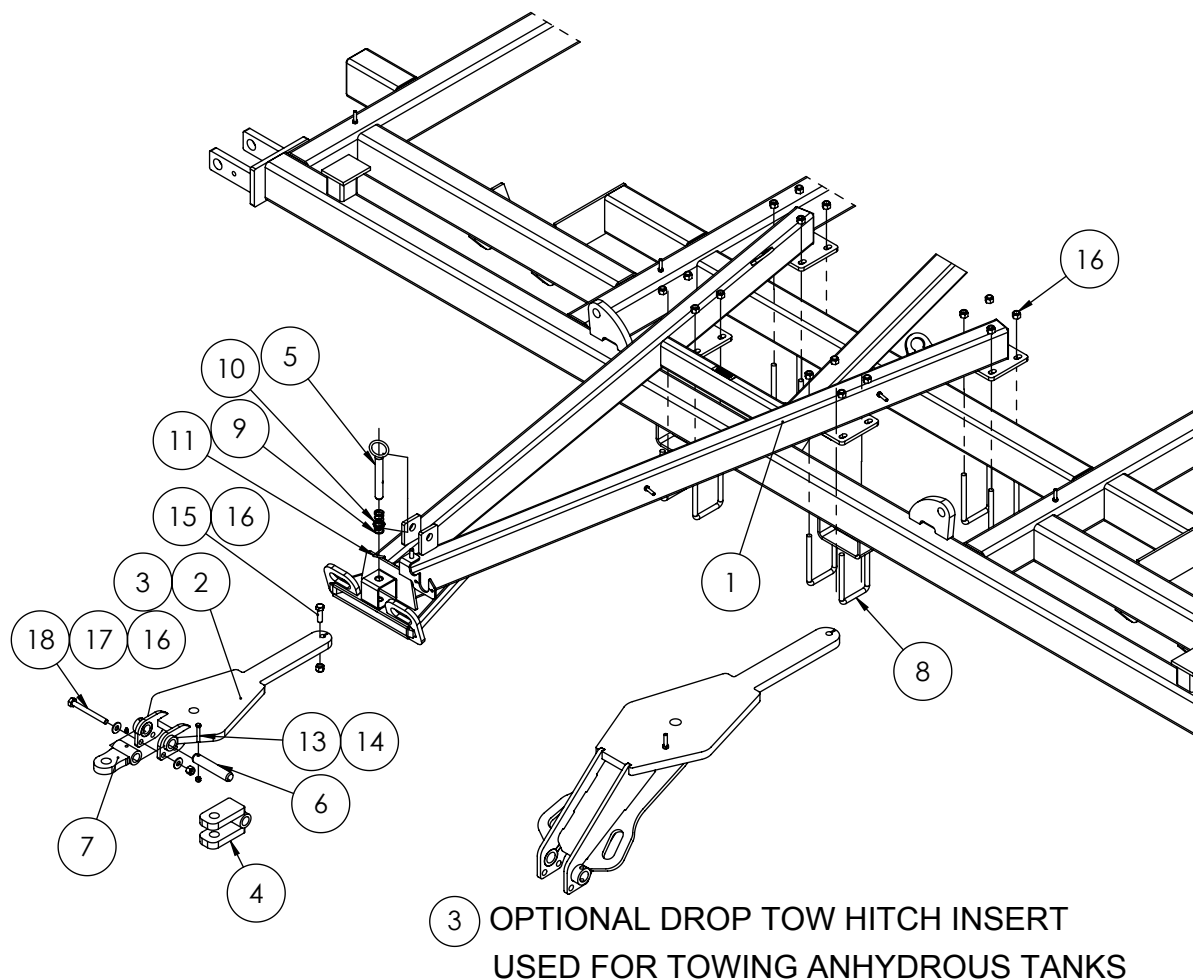


Single-fold machine shown here.

36-41ft Tow Hitch Installation

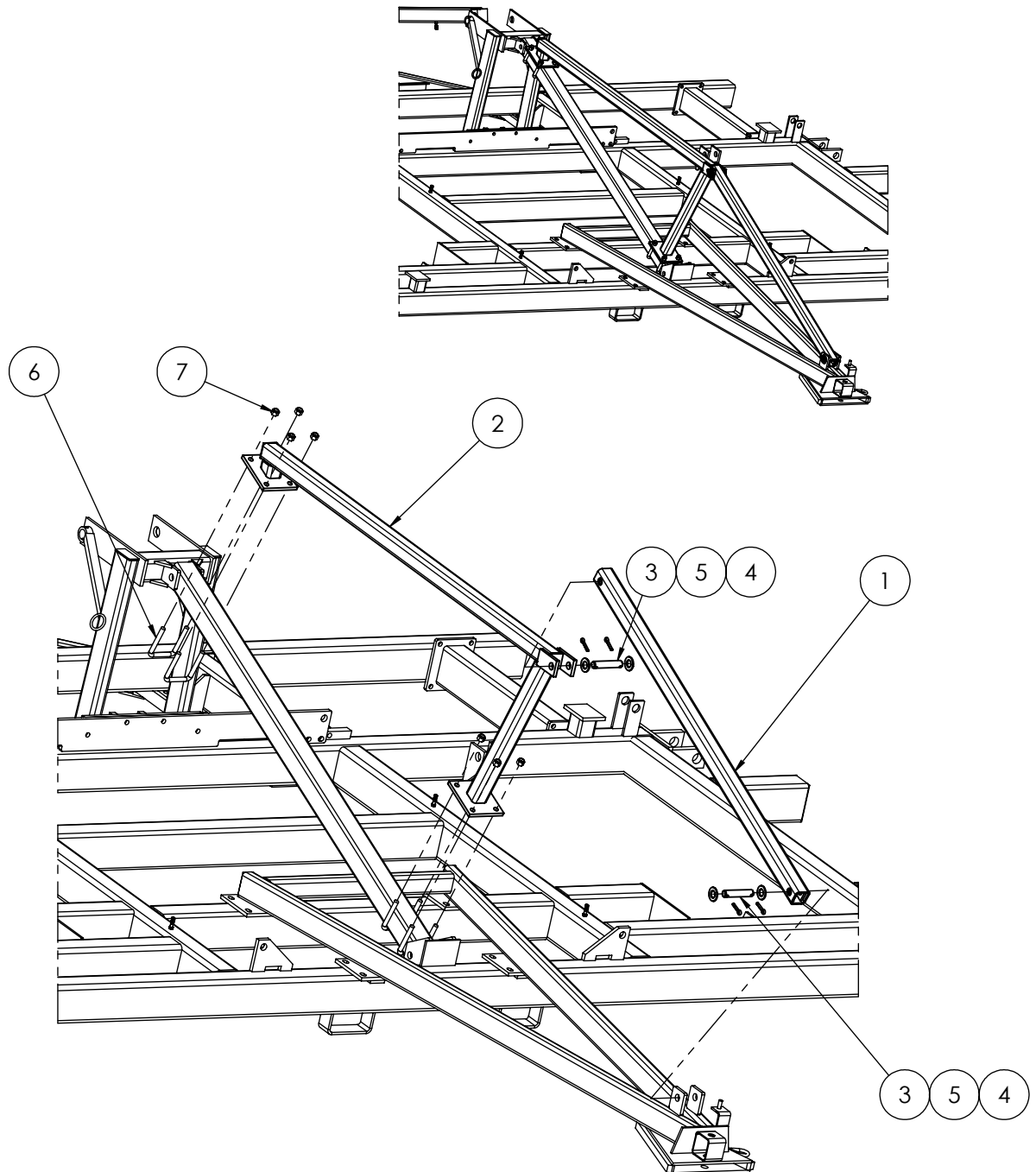
ITEM	QTY	PART NO.	DESCRIPTION
1	1	C10863	570 36 - 41' (3 SECTION) TOW HITCH
2	1	C10859	TOW HITCH INSERT
3	1	C10932	DROP TOW HITCH INSERT
4	1	C11165	TOW HITCH DOUBLE CLEVIS
5	1	GPSPEC16C1000	RING & WASHER TOW HITCH SPRING PIN
6	1	GP2000612B06	1 1/4" x 6 1/2" LG. PIN - 1 HOLE
7	1	T00328	TOW HITCH CLEVIS
8	8	BU1046	U-BOLT 5/8" x 4" x 7 1/2" LG.
9	1	C1072	TOW HITCH PIN SPRING
10	1	GM26	1" MACHINE BUSHING
11	1	BSR0415	1/4 X 1 1/2" ROLL PIN
12	1	GF1610	1/8" NPT GREASE FITTING
13	1	B0625	3/8" X 2 1/2" LG. GRADE 5
14	1	BN06L	3/8"-16NC LOCK NUT
15	1	B1020	5/8"NC x 2" HEX BOLT
16	18	BN10L	5/8" NYLOCK NUT NC
17	2	BF10	5/8" FLAT WASHER
18	1	B1060	5/8 x 6" HEX BOLT GR 5

NOTE: COMPLETE TOW HITCH KIT AVAILABLE AS **PART # MC573W3**



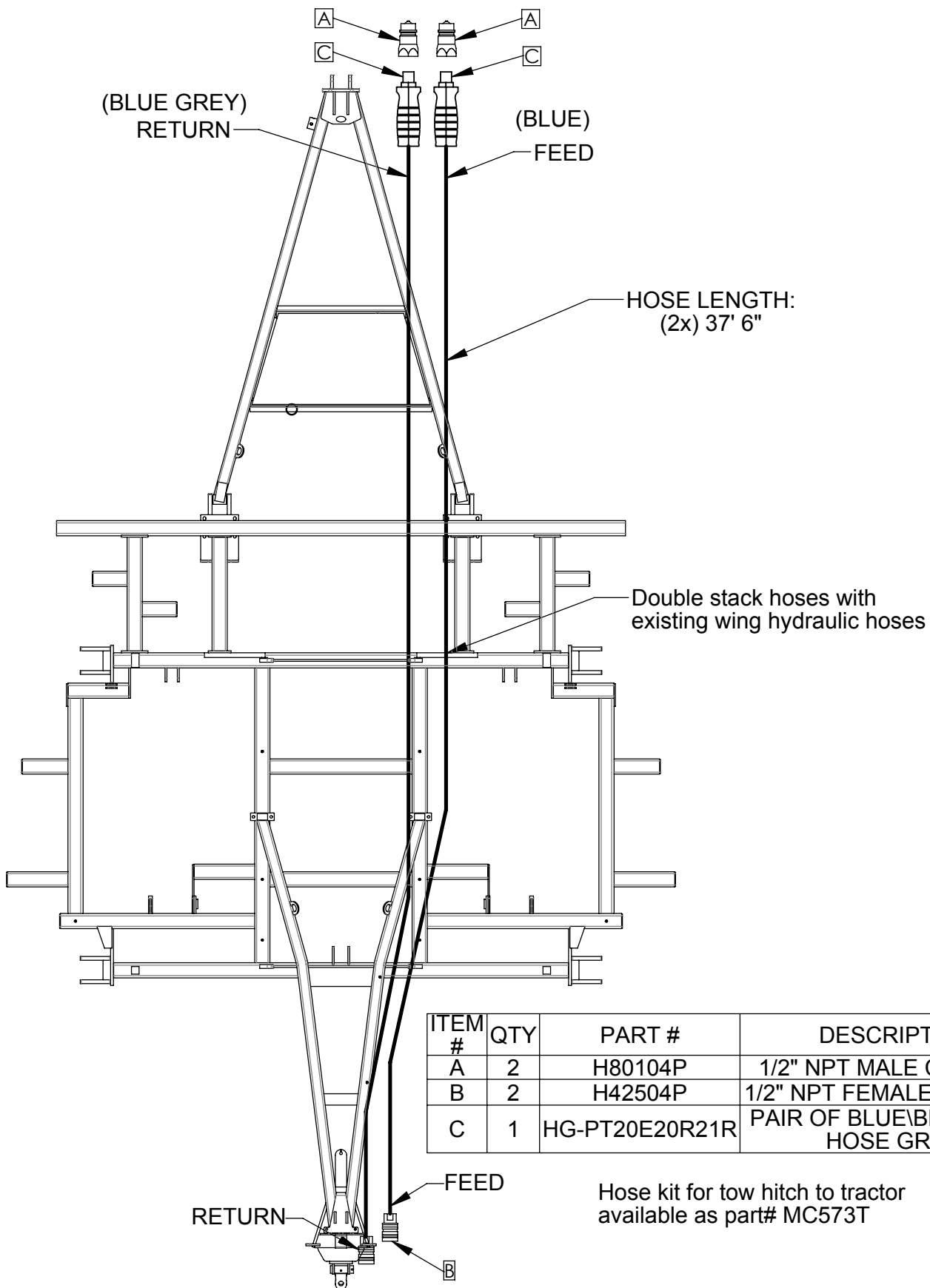
Tow Hitch Brace Installation

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C11044	570 TOWHITCH BRACE LINK
2	1	C11043	570 TOWHITCH BRACE L-BRACKET
3	2	GP16005A05	PIN 1" DIA. x 5" LG. - 2 HOLES
4	4	BF16S	1" SAE WASHER
5	4	BSC0515	5/16" x 1 1/2" COTTER PIN
6	4	BU103535	U-BOLT 5/8" x 3 9/16" x 5" LG.
7	8	BN10L	5/8" NYLOCK NUT NC



Tow Hitch Hydraulics

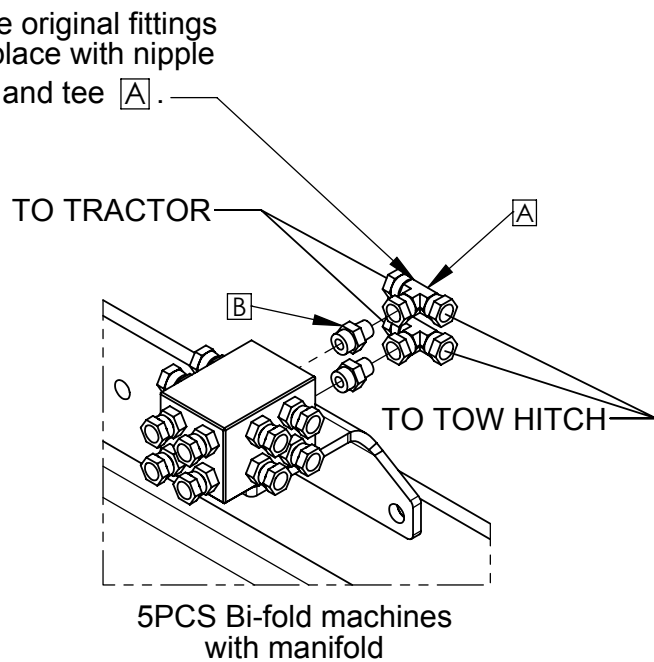
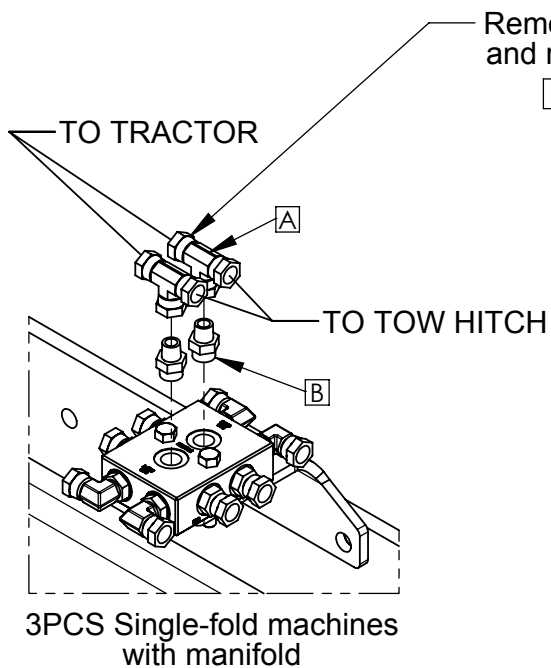
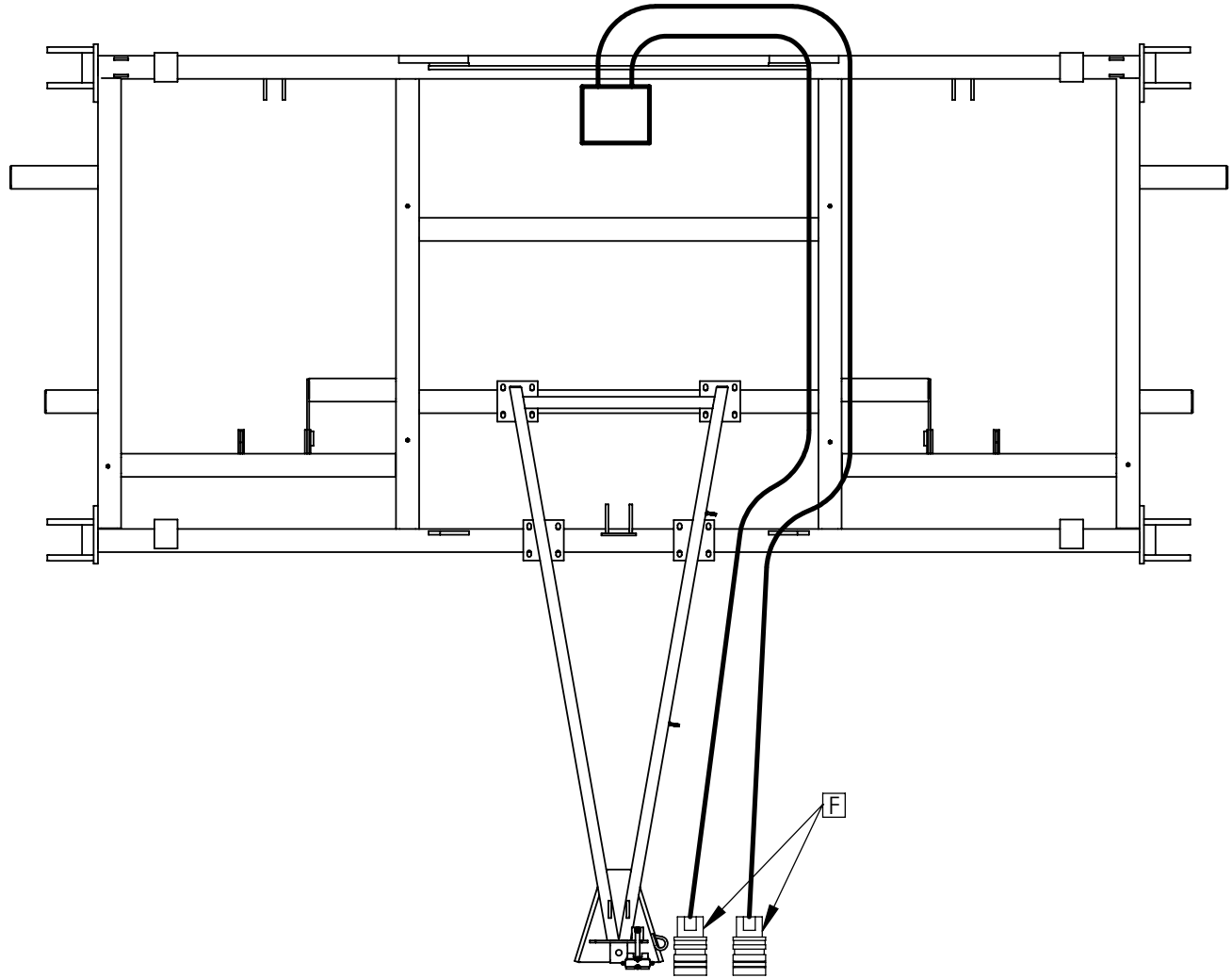
(for independent HYD. control)



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

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Tow Hitch Hydraulics (for shared wing HYD. control)

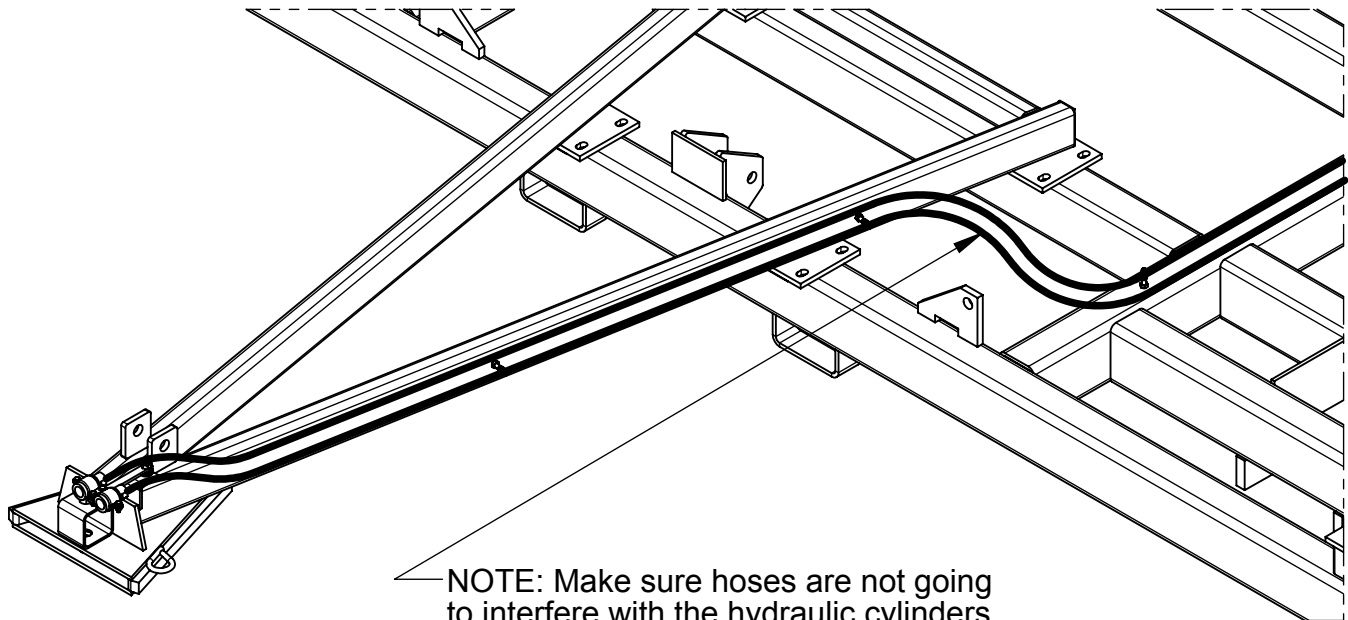
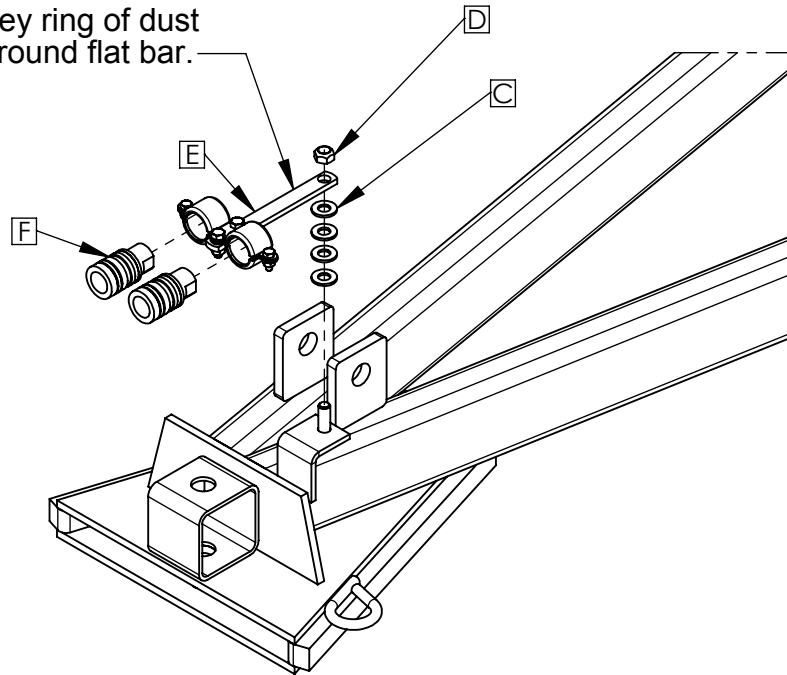


Tow Hitch Hydraulics

(for shared wing HYD. control)

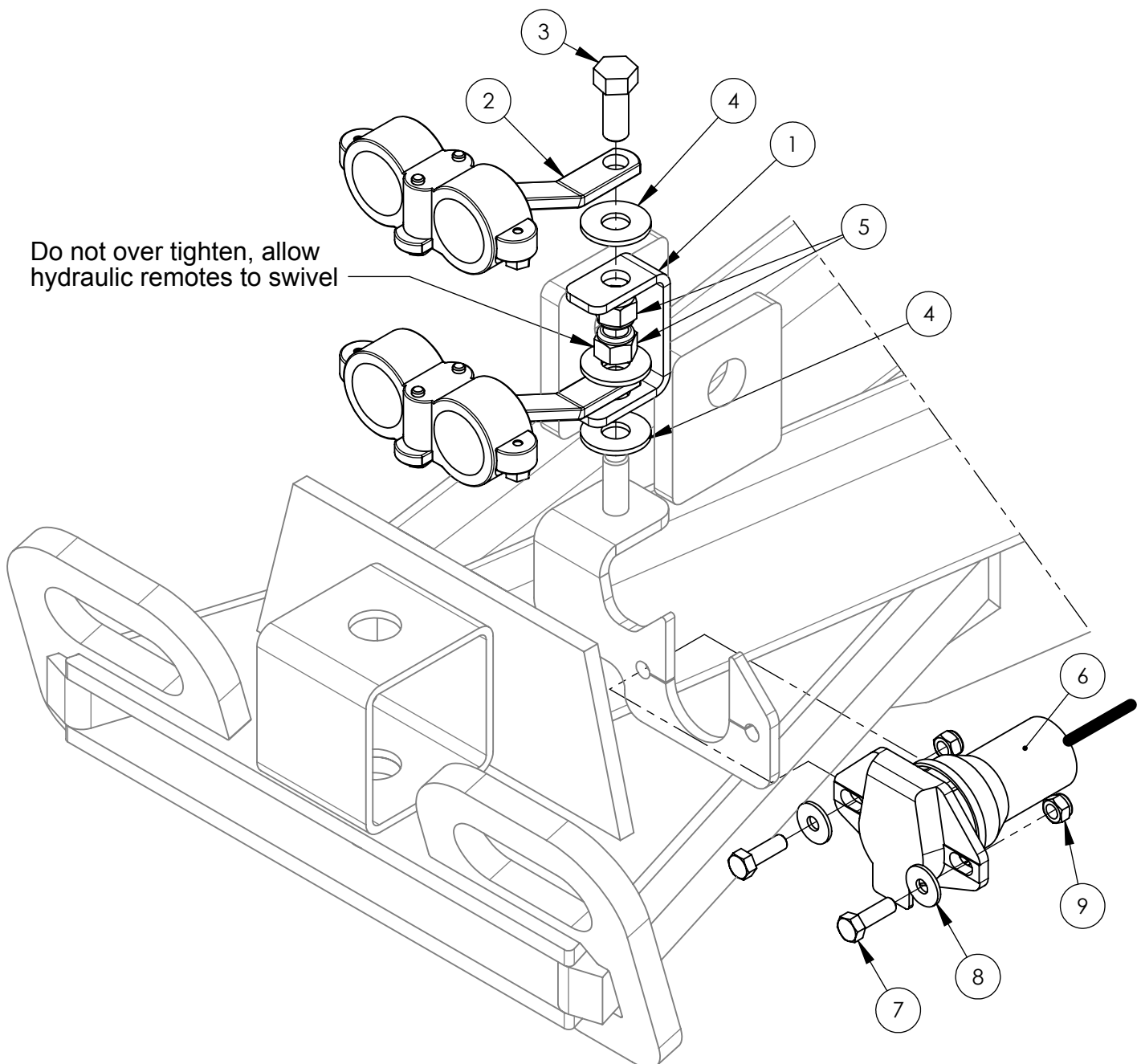
ITEM	QTY	PART NO.	DESCRIPTION
A	2	H956666	-06 NPT ALL FEMALE SWIVEL TEE
B	2	H915086	-06 ORB TO -06 NPT NIPPLE
C	4	BF08HS	1/2" HARD STRUCTURAL FLAT WASHER
D	1	BN08S	1/2"-13NC STOVER LOCK NUT
E	1	H50064	PIONEER HOSE HOLDER
F	2	H42504P	-08 NPT PIONEER FEMALE COUPLER
G	2	H52054	#5205-4C 1/2" PIONEER DUST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

Place key ring of dust plugs around flat bar.

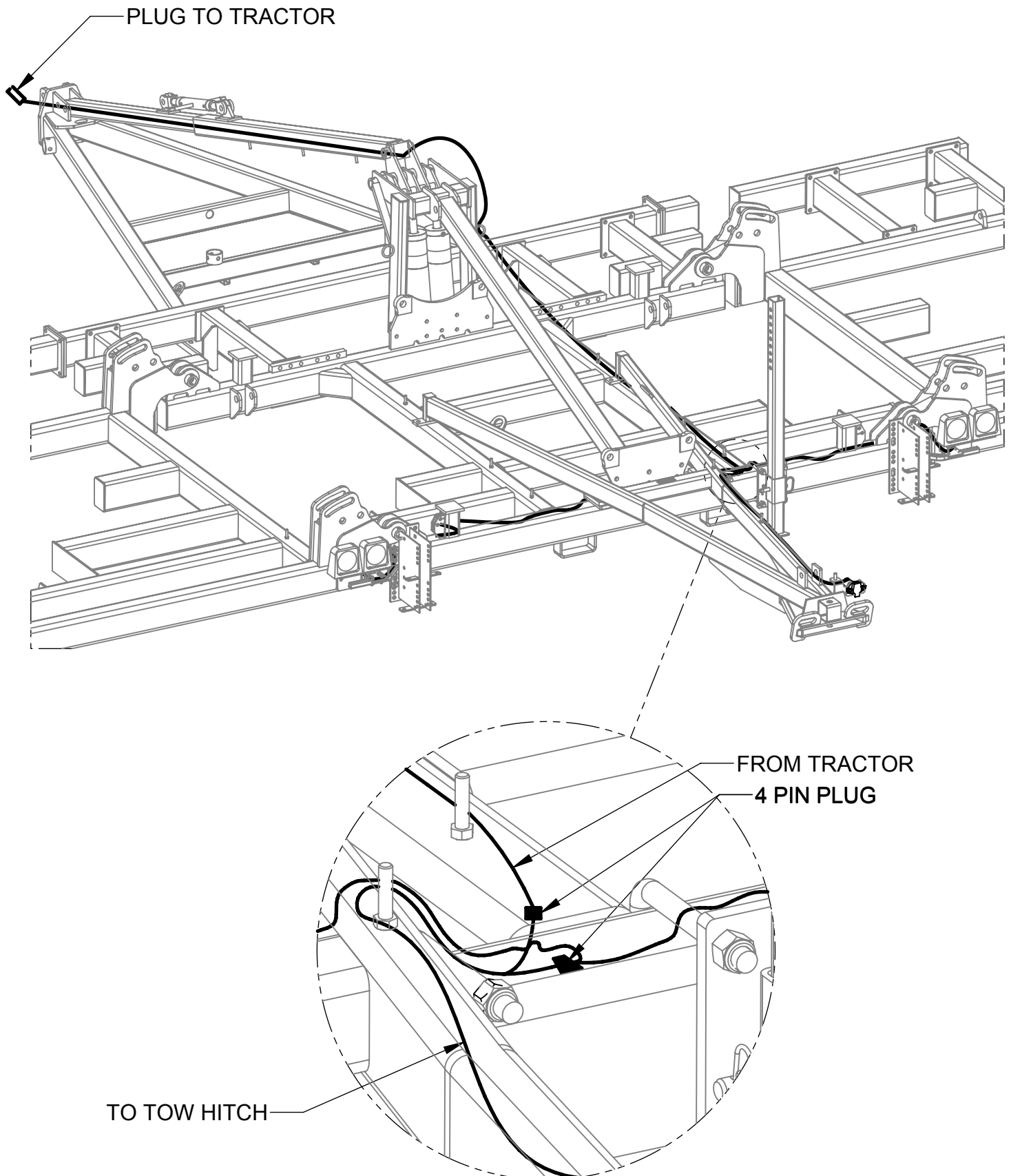


Tow Hitch Dual Remote Hyd. Assembly & 7 Pin Plug Assembly OPTIONAL

ITEM	QTY	PART NO.	DESCRIPTION
1	1	L01496	TOW HITCH DUEL REMOTE HYDRUALIC BRACKET
2	2	H50064	PIONEER HOSE HOLDER
3	1	B0812	1/2" x 1 1/4" HEX BOLT
4	3	BF08	1/2" FLATWASHER
5	2	BN08L	1/2" NYLOCK NUT NC
6	1	GLA60168	TOW HITCH LIGHT HARNESS EXTENSION
7	2	B0510	5/16" X 1" HEX BOLT GR. 5
8	2	BF05	5/16" FLATWASHER
9	2	BN05L	5/16" LOCK NUT



Tow Hitch Light Harness Extension OPTIONAL





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1-866-442-1293