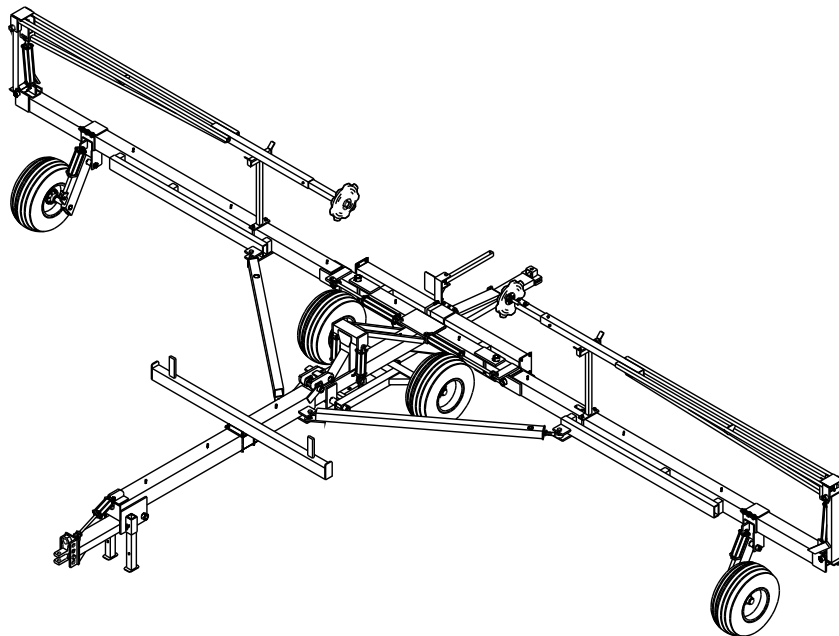


KONGSKILDE
INDUSTRIES INC.

OPERATOR'S MANUAL
40' 7200
FRONT-FOLD TOOLBAR



COME VISIT US ON THE WEB AT: www.kongskilde.com

SETUP AND OPERATION

When ordering parts, provide the complete serial and model number, as well as the desired part number and description.

For convenience and future reference, record the following information in the spaces provided below:

DATE PURCHASED: ____/____/____

DEALER NAME: _____

DEALER PHONE: _____

MODEL NUMBER: _____

SERIAL NUMBER: _____

NOTE: Throughout this manual, references of “right” or “right side” and “left” or “left side” are always from a point behind the implement facing forward, in the direction of travel.

SAFETY FIRST!

FOLLOW THESE RULES:

Comply with your state and local laws governing highway safety while moving machinery on the highway.

The SMV reflector emblem should be used at all times on public roads, and always use the flashing warning lights on your tractor.

Drive at a reasonable speed to maintain complete control of your machine at all times. Do not exceed 20 MPH (32.2 km/h) while transporting. Avoid heavily traveled roads whenever possible.

Hydraulic fluid escaping under pressure can have enough force to penetrate your skin. If you are injured by escaping fluid, see a doctor at once. Serious infection or reaction can result if medical treatment is not given immediately. Make sure all connections are tight and that hoses and lines are in good condition before applying pressure to the system. Relieve all pressure before disconnecting any lines or performing other work on the hydraulic system. To find a leak under pressure, use a small piece of cardboard or wood, **NEVER** use your hands.

At least once a year, inspect all hydraulic hoses for leaks, cracks, abrasions, and pinched areas. Tighten fittings or replace hoses as needed.

Always be sure the hydraulic lines and cylinders are free of air and do not leak. After connecting any new parts, replacing old parts, or servicing the hydraulic components, carefully cycle the hydraulic cylinders several times to purge trapped air from the system. Check all the connections for any leakage.

Always block up raised equipment when servicing it. **NEVER** rely on the hydraulic system to support the implement during servicing.

SAFETY FIRST!

FOLLOW THESE RULES:

Keep all safety equipment, such as hitch pins, chains, SMV emblems, lights, reflectors, etc... in good repair. Please note all safety decals, and keep them in place. New decals are available from your dealer.

Misuse, abuse, neglect, or modification of this machine can cause:

- mechanical breakdown
- property damage
- personal injury or death

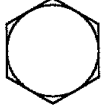
Always use proper safety precautions and common sense. Set a good example and show your workers how to work safely, be an example, not a statistic.

Recommended Tire Pressures

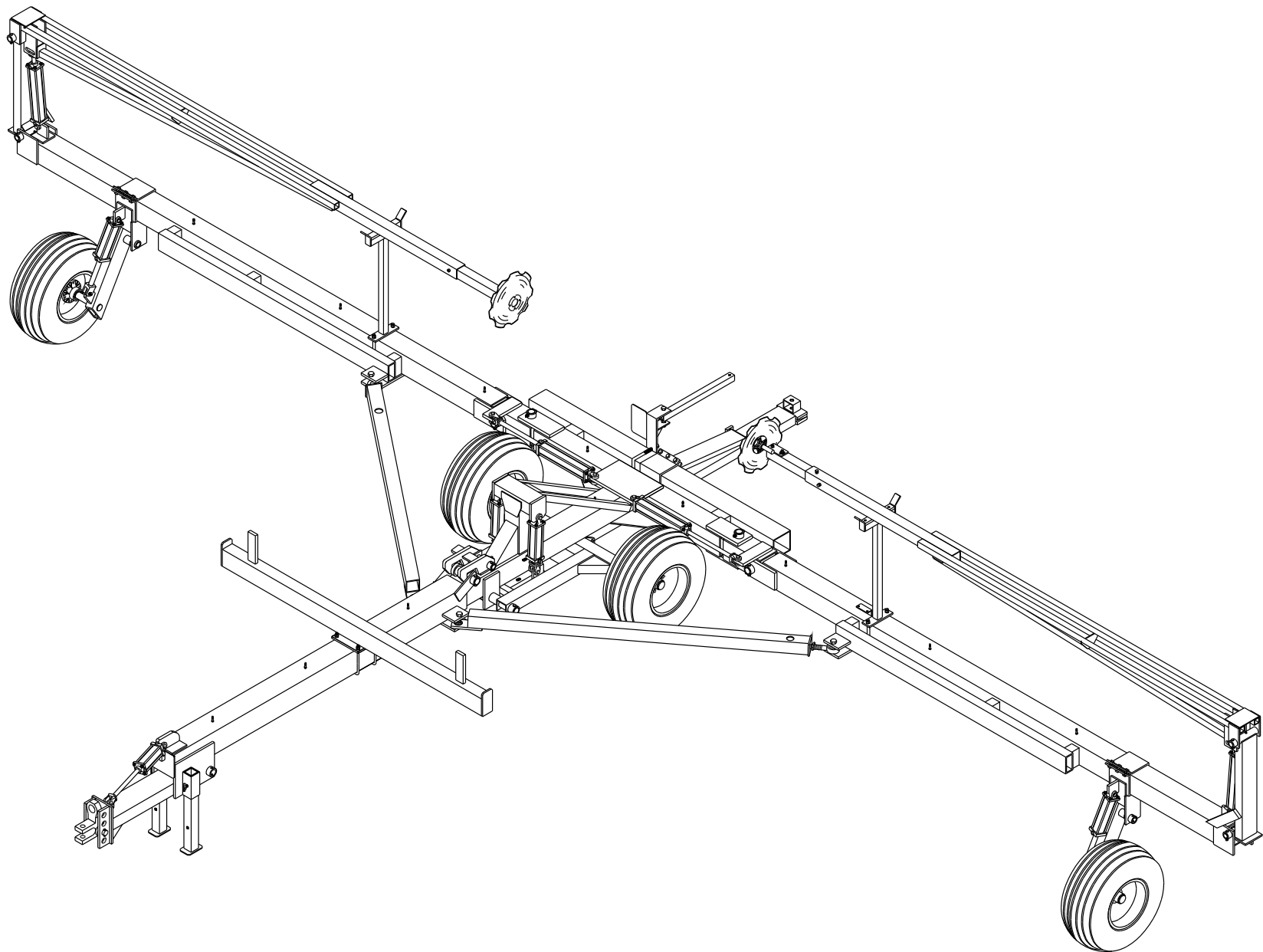
Tire Size & Ply	Pressure
13.6 x 38 - 12 ply	44 PSI
12.5L x 15 - 12 ply	50 PSI
12.5L x 15 - 8 ply	36 PSI
16.5 x 16.1 - 10 ply	36 PSI
18.4 x 26 - 10 ply	26 PSI
5:30 x 12 - 6 ply	55 PSI
18 x 8:50 x 8 - 4 ply	22 PSI
4:80 x 8 - 4 ply	42 PSI

BOLT TORQUE

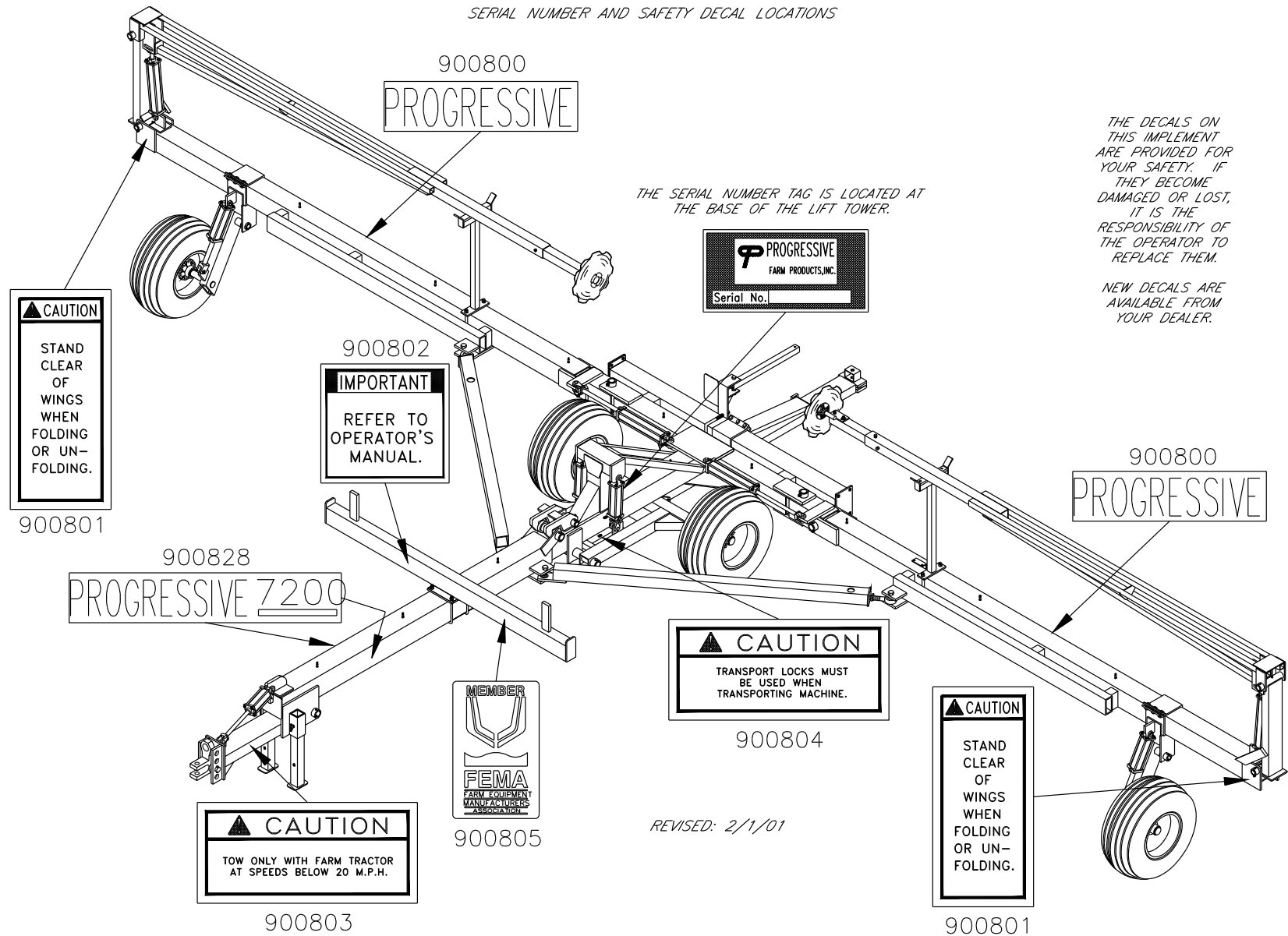
- 1.** Improperly tightened bolts will result in damage, breakage, expense, and lost time.
- 2.** Always replace bolts with the specified grade and type.
- 3.** Torque all fasteners to the proper value during assembly, then check after every two (2) hours of operation until they remain tight.
- 4.** Use the following torque chart as a guide to insure proper tightening of the fasteners.
- 5.** Make a daily inspection of the implement checking for loose bolts as well as leaking hoses.

BOLT Ø - TPI	 GRADE 2	 GRADE 5	 A - 325	 GRADE 8
3/8 - 16	25	35		50
7/16 - 14	35	55		80
1/2 - 13	55	85		125
9/16 - 12	75	125		175
5/8 - 11	105	170		235
3/4 - 10	185	305		425
7/8 - 9	170	445		690
1 - 8	260	670		1030
1-1/8 - 7	365	900		1460
1-1/4 - 7	515	1275		2060
1-3/8 - 6	675	1675		2700
1-1/2 - 6	900	2150		3500

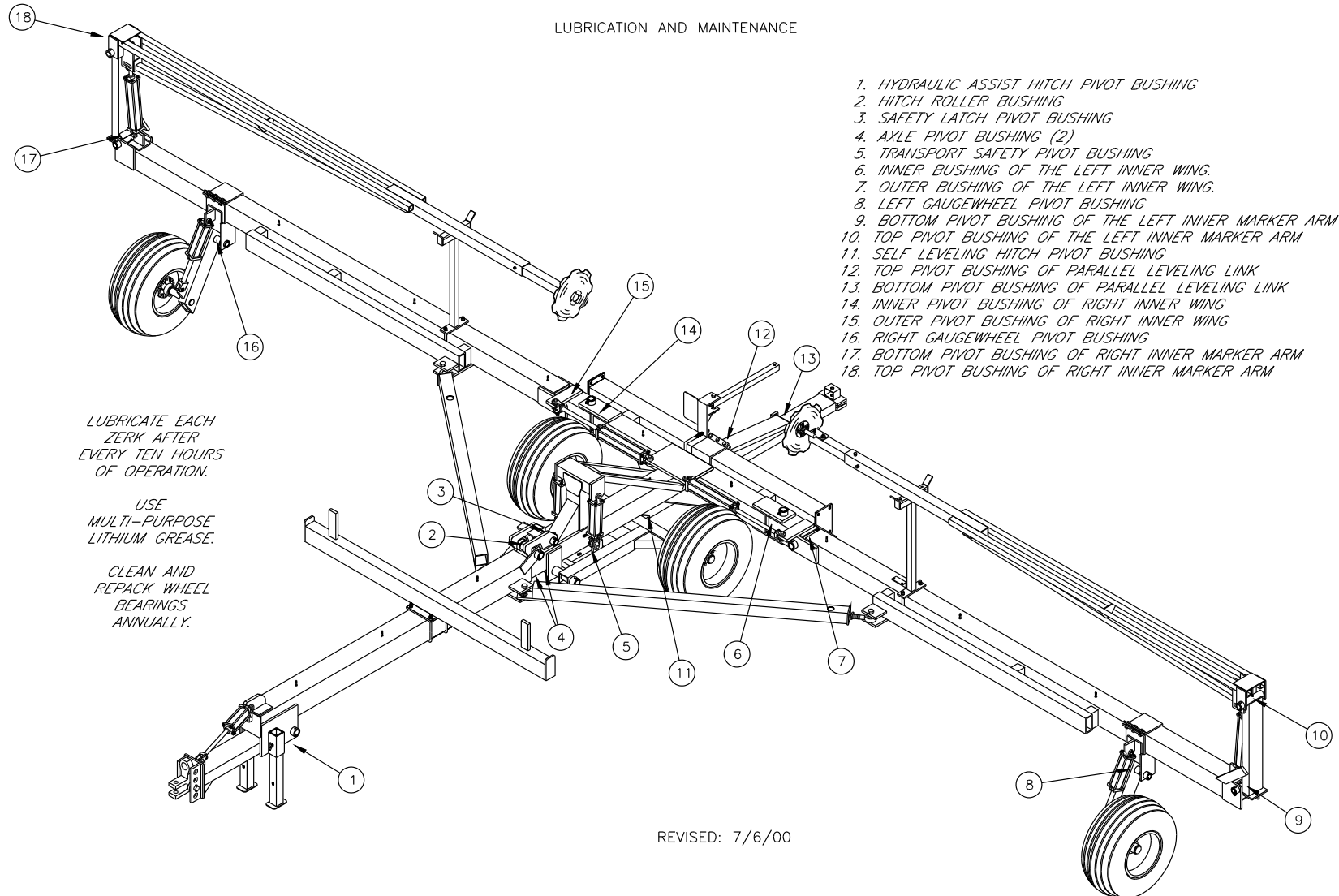
TORQUE VALUES ARE IN FT./LBS. AND ARE BASED ON PLATED OR GREASE COATED HARDWARE. INCREASE VALUES 5 - 10% FOR FINE THREADS. USE 65% OF THE LISTED VALUE FOR JAM NUTS.



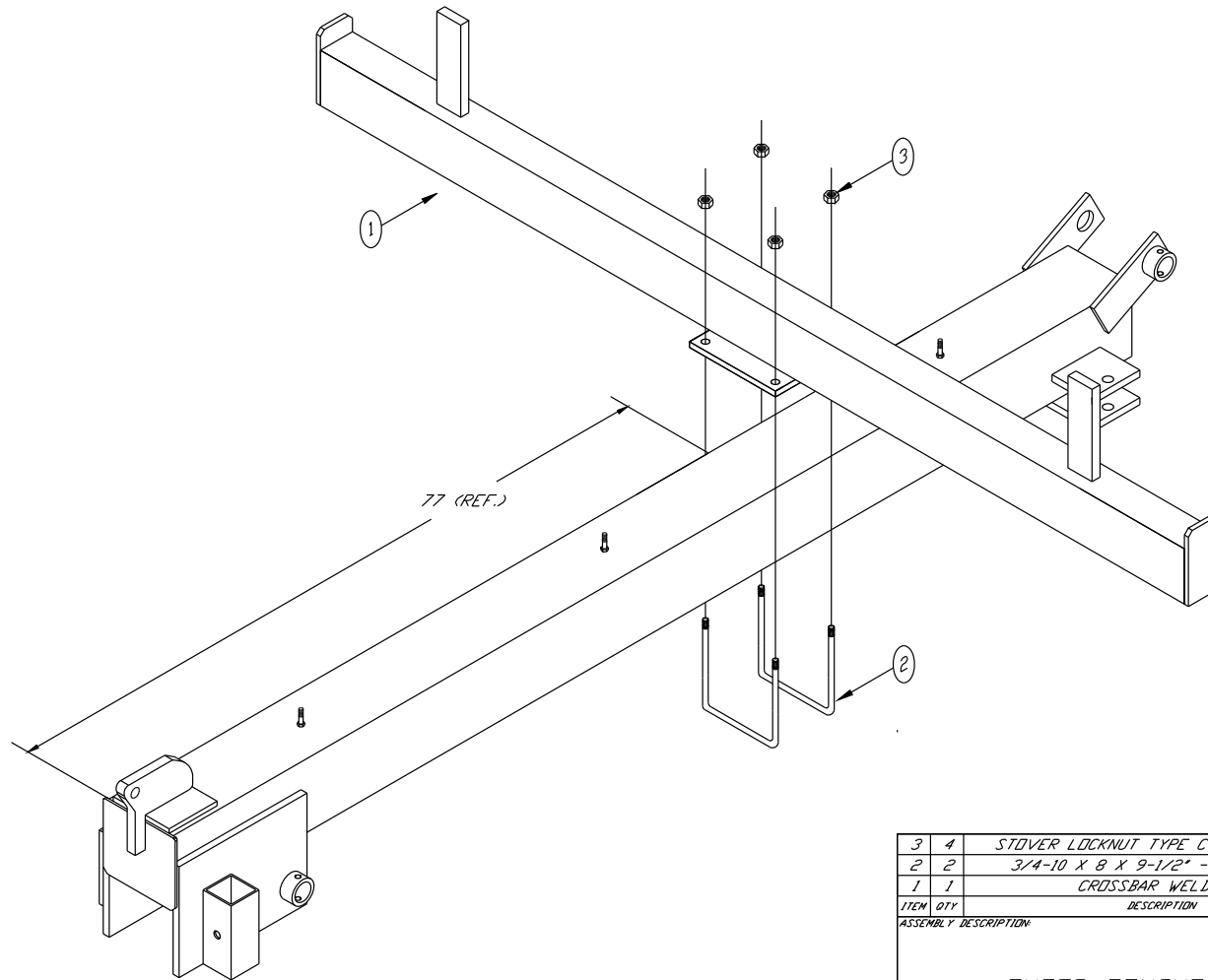
SERIAL NUMBER AND SAFETY DECAL LOCATIONS



LUBRICATION AND MAINTENANCE



REVISED: 7/6/00

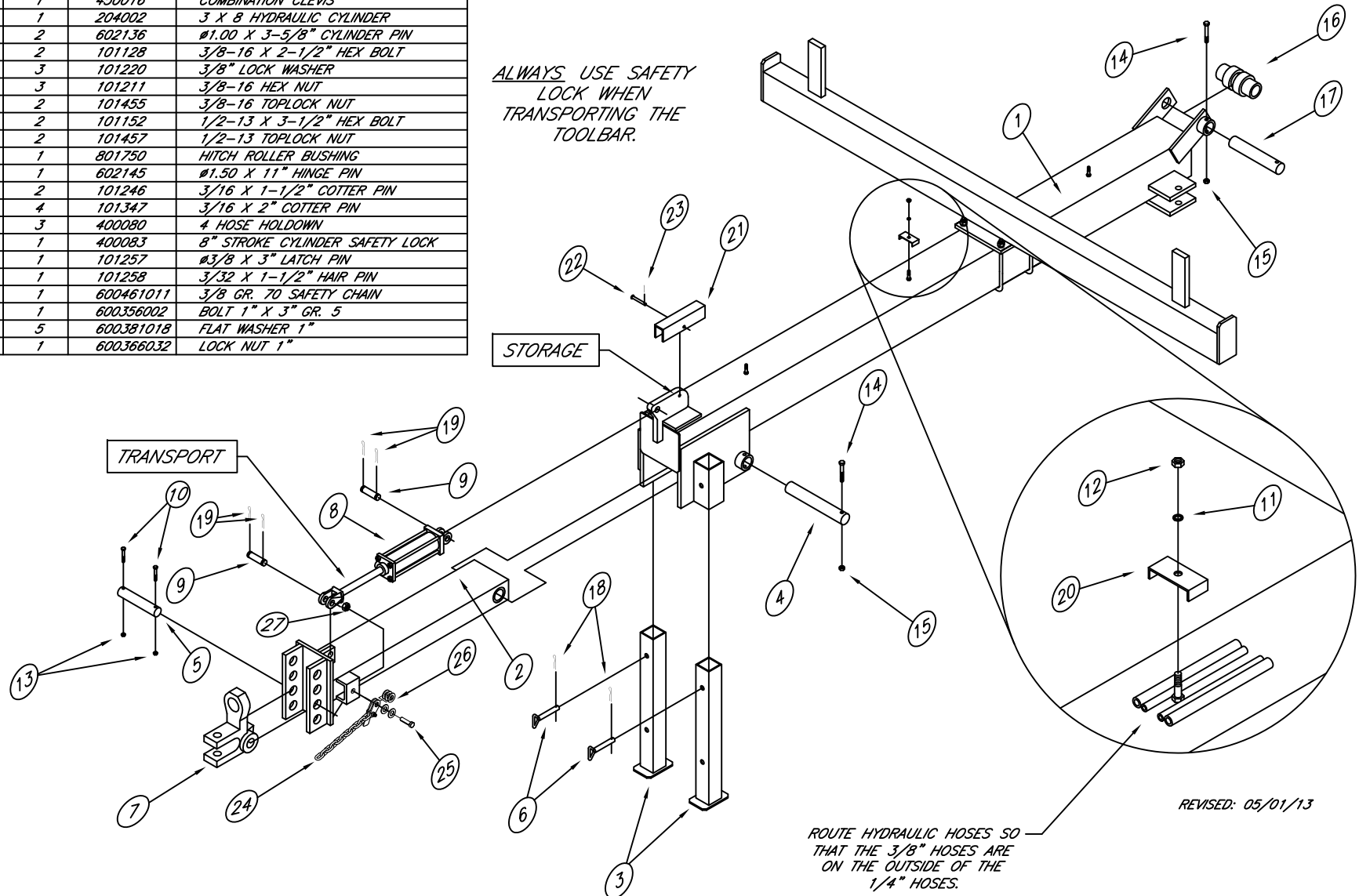


3	4	STOVER LOCKNUT TYPE C - 3/4" - UNC	600366024
2	2	3/4-10 X 8 X 9-1/2" - PLT U-BOLT	101492
1	1	CROSSBAR WELDMENT	801872
ITEM	QTY	DESCRIPTION	PART#
ASSEMBLY DESCRIPTION			
OUTER TONGUE ASSEMBLY			
REFERENCE#	SHEET#	DATE:	REV:
	1 OF 1	09/28/12	

HYDRAULIC ASSIST HITCH ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	768017952	OUTER TONGUE
2	1	801740	HYDRAULIC ASSIST HITCH
3	2	801665	3 X 3" SQ. - JACK STAND
4	1	602223	#2.00 X 13" STRESSPROOF PIN
5	1	602178	#1.625 X 8-1/2" CLEVIS PIN
6	2	801666	#.750 X 4-1/2" - JACK STAND PIN
7	1	450016	COMBINATION CLEVIS
8	1	204002	3 X 8 HYDRAULIC CYLINDER
9	2	602136	#1.00 X 3-5/8" CYLINDER PIN
10	2	101128	3/8-16 X 2-1/2" HEX BOLT
11	3	101220	3/8" LOCK WASHER
12	3	101211	3/8-16 HEX NUT
13	2	101455	3/8-16 TOPLOCK NUT
14	2	101152	1/2-13 X 3-1/2" HEX BOLT
15	2	101457	1/2-13 TOPLOCK NUT
16	1	801750	HITCH ROLLER BUSHING
17	1	602145	#1.50 X 11" HINGE PIN
18	2	101246	3/16 X 1-1/2" COTTER PIN
19	4	101347	3/16 X 2" COTTER PIN
20	3	400080	4 HOSE HOLDOWN
21	1	400083	8" STROKE CYLINDER SAFETY LOCK
22	1	101257	#3/8 X 3" LATCH PIN
23	1	101258	3/32 X 1-1/2" HAIR PIN
24	1	600461011	3/8 GR. 70 SAFETY CHAIN
25	1	600356002	BOLT 1" X 3" GR. 5
26	5	600381018	FLAT WASHER 1"
27	1	600366032	LOCK NUT 1"

ALWAYS USE SAFETY LOCK WHEN TRANSPORTING THE TOOLBAR.

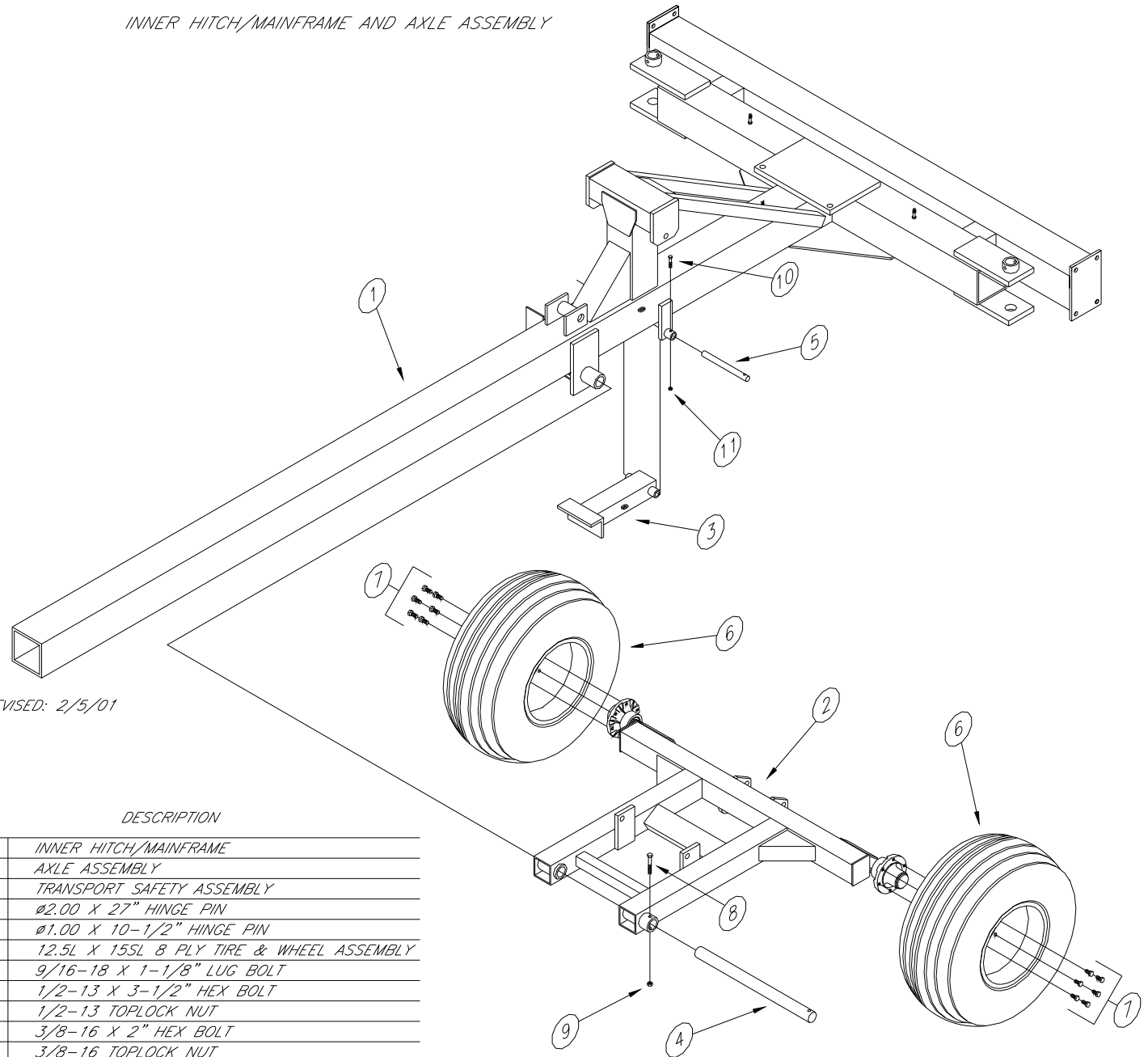


REVISED: 05/01/13

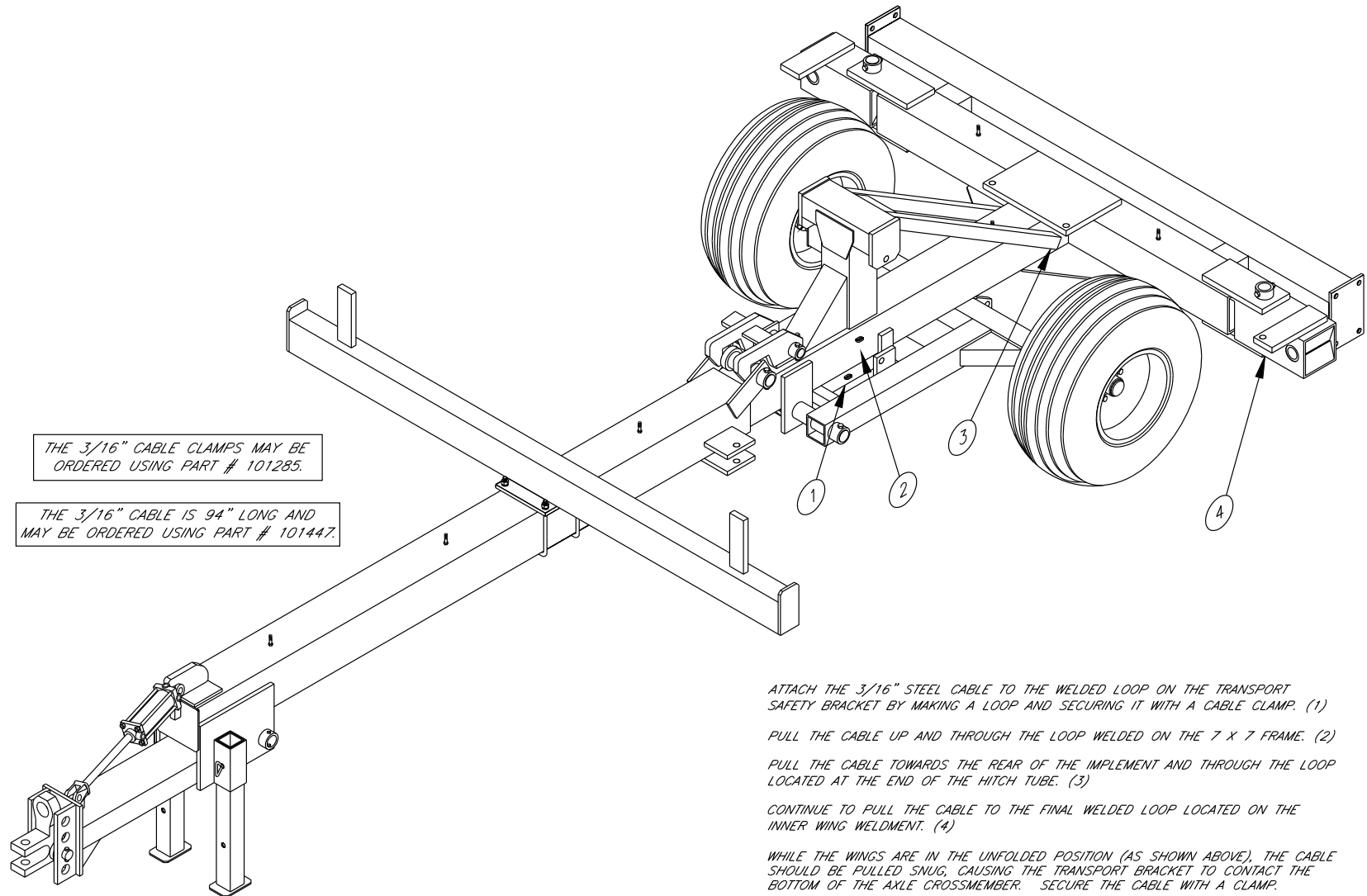
INNER HITCH/MAINFRAME AND AXLE ASSEMBLY

REVISED: 2/5/01

REF. #	QTY.	PART #	DESCRIPTION
1	1	801742	INNER HITCH/MAINFRAME
2	1	801743	AXLE ASSEMBLY
3	1	801744	TRANSPORT SAFETY ASSEMBLY
4	1	602170	Ø2.00 X 27" HINGE PIN
5	1	602224	Ø1.00 X 10-1/2" HINGE PIN
6	2	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEMBLY
7	12	301151	9/16-18 X 1-1/8" LUG BOLT
8	1	101152	1/2-13 X 3-1/2" HEX BOLT
9	1	101457	1/2-13 TOPLOCK NUT
10	1	101127	3/8-16 X 2" HEX BOLT
11	1	101455	3/8-16 TOPLOCK NUT



TRANSPORT SAFETY CABLE INSTALLATION



ATTACH THE 3/16" STEEL CABLE TO THE WELDED LOOP ON THE TRANSPORT SAFETY BRACKET BY MAKING A LOOP AND SECURING IT WITH A CABLE CLAMP. (1)

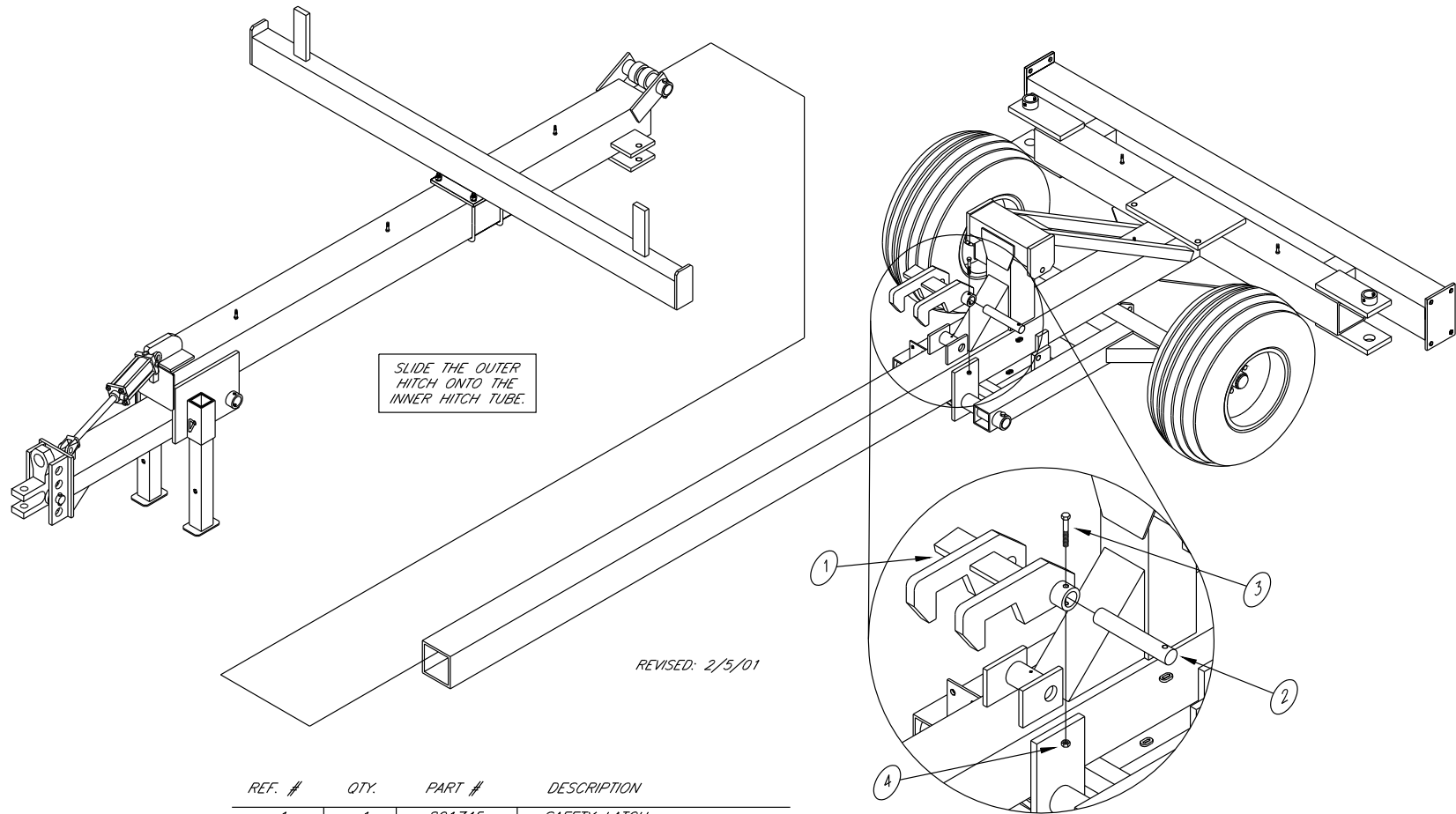
PULL THE CABLE UP AND THROUGH THE LOOP WELDED ON THE 7 X 7 FRAME. (2)

PULL THE CABLE TOWARDS THE REAR OF THE IMPLEMENT AND THROUGH THE LOOP LOCATED AT THE END OF THE HITCH TUBE. (3)

CONTINUE TO PULL THE CABLE TO THE FINAL WELDED LOOP LOCATED ON THE INNER WING WELDMENT. (4)

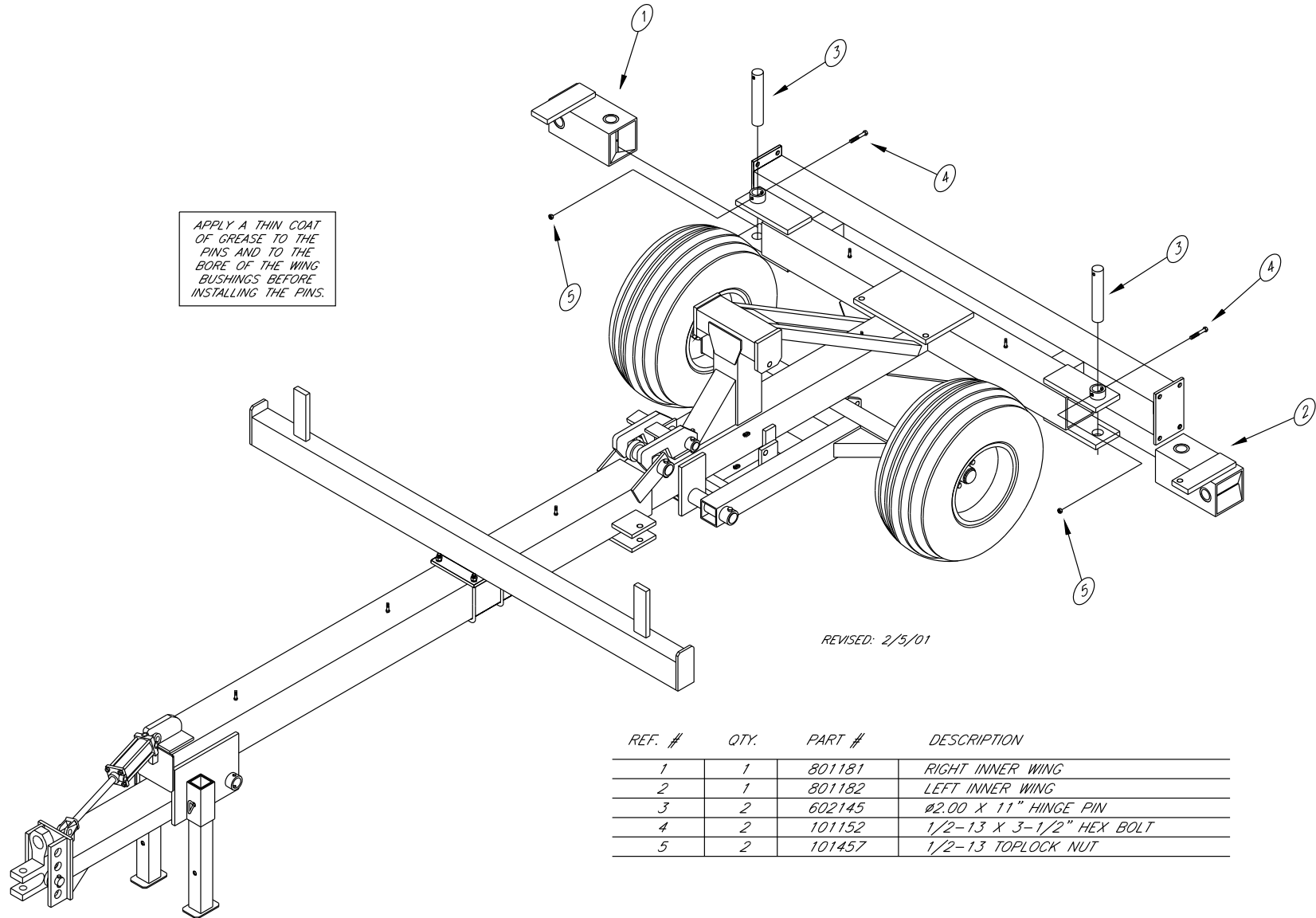
WHILE THE WINGS ARE IN THE UNFOLDED POSITION (AS SHOWN ABOVE), THE CABLE SHOULD BE PULLED SNUG, CAUSING THE TRANSPORT BRACKET TO CONTACT THE BOTTOM OF THE AXLE CROSSMEMBER. SECURE THE CABLE WITH A CLAMP.

OUTER & INNER HITCH ASSEMBLY

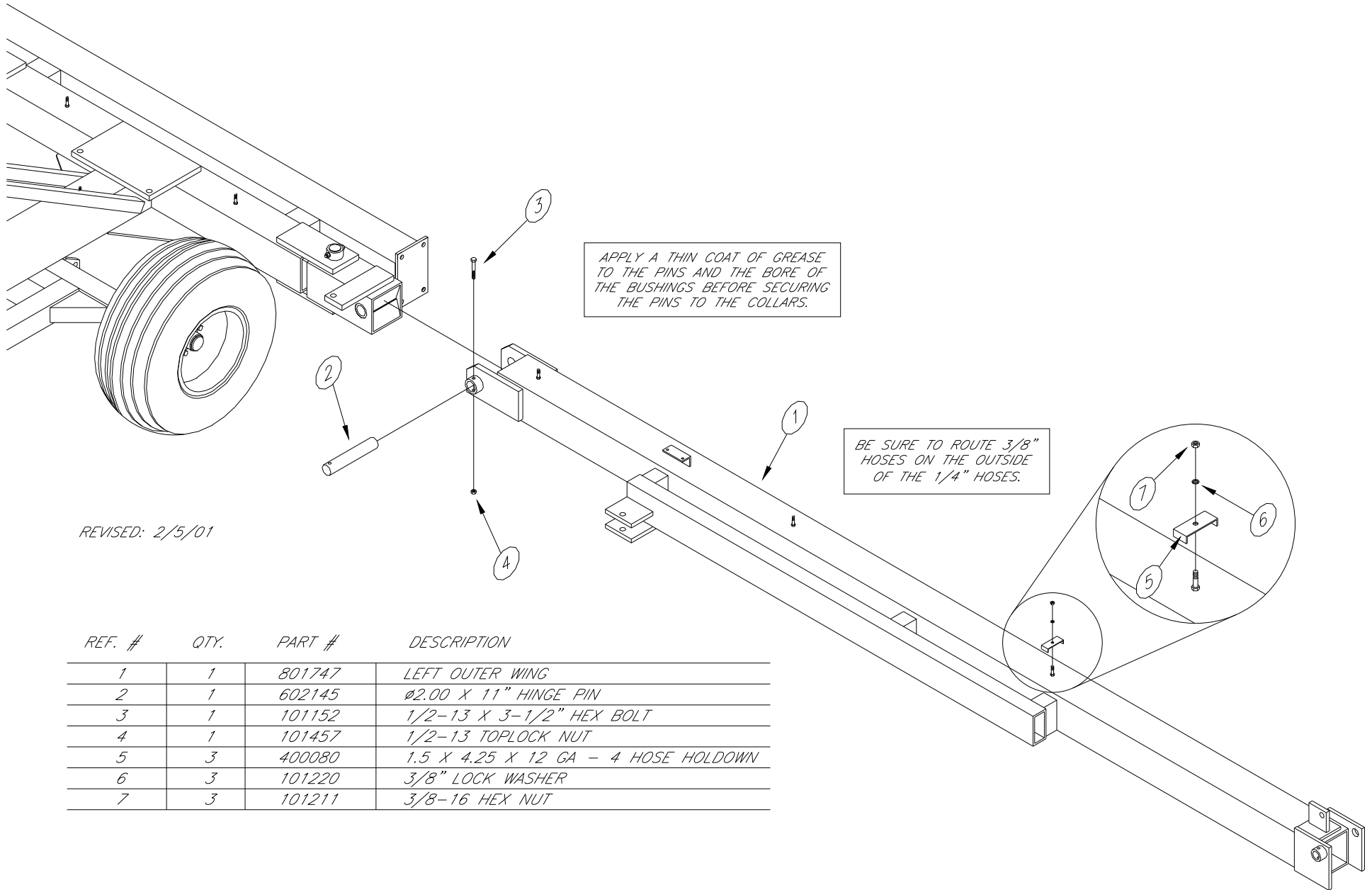


REF. #	QTY.	PART #	DESCRIPTION
1	1	801745	SAFETY LATCH
2	1	602225	Ø1.50 X 9" HINGE PIN
3	1	101140	7/16-14 X 3" HEX BOLT
4	1	101456	7/16-14 TOPLOCK NUT

INNER WING ASSEMBLY



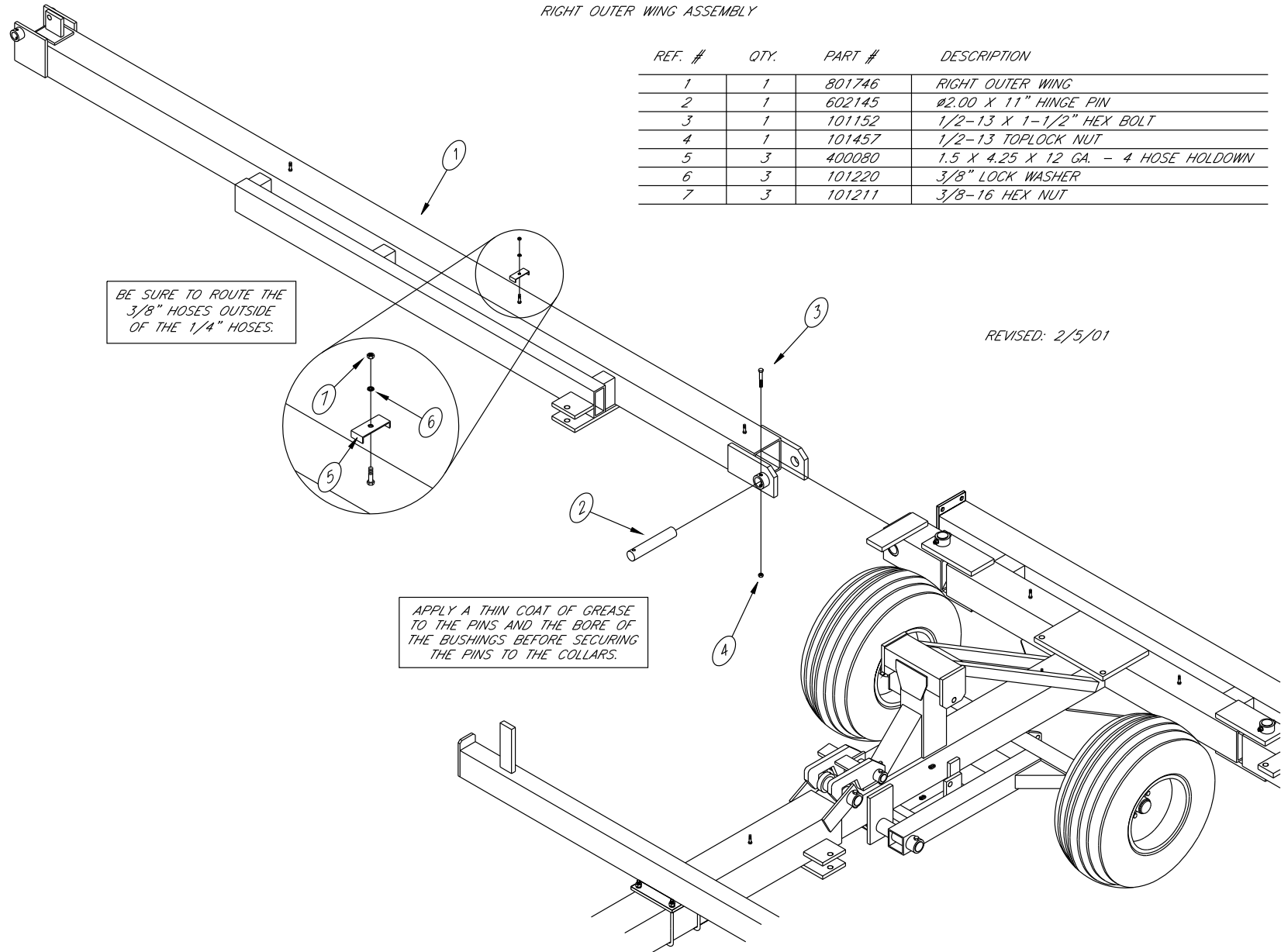
LEFT OUTER WING ASSEMBLY



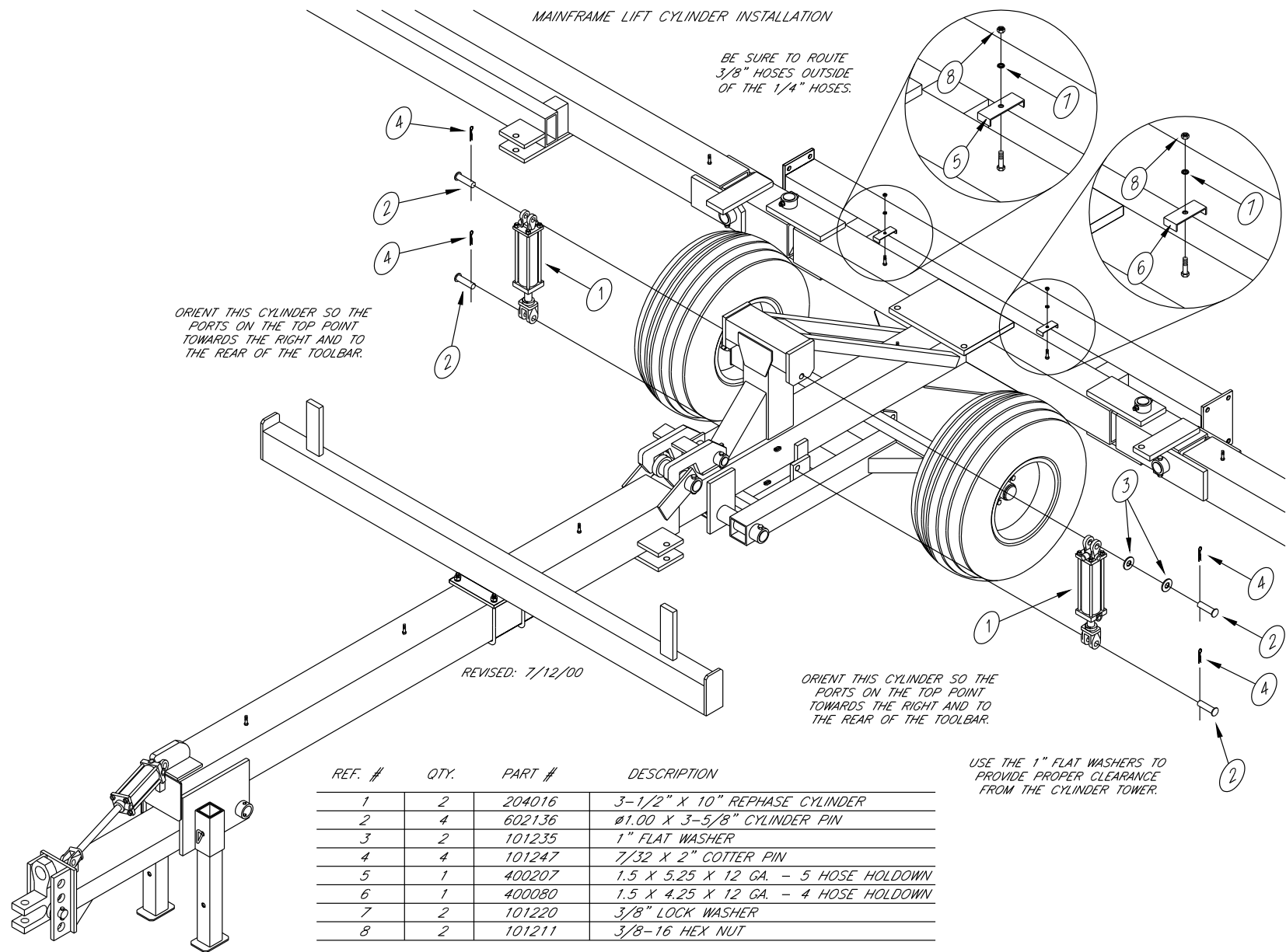
REF. #	QTY.	PART #	DESCRIPTION
1	1	801747	LEFT OUTER WING
2	1	602145	Ø2.00 X 11" HINGE PIN
3	1	101152	1/2-13 X 3-1/2" HEX BOLT
4	1	101457	1/2-13 TOPLOCK NUT
5	3	400080	1.5 X 4.25 X 12 GA - 4 HOSE HOLDOWN
6	3	101220	3/8" LOCK WASHER
7	3	101211	3/8-16 HEX NUT

RIGHT OUTER WING ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801746	RIGHT OUTER WING
2	1	602145	Ø2.00 X 11" HINGE PIN
3	1	101152	1/2-13 X 1-1/2" HEX BOLT
4	1	101457	1/2-13 TOPLOCK NUT
5	3	400080	1.5 X 4.25 X 12 GA. - 4 HOSE HOLDOWN
6	3	101220	3/8" LOCK WASHER
7	3	101211	3/8-16 HEX NUT



REVISED: 2/5/01

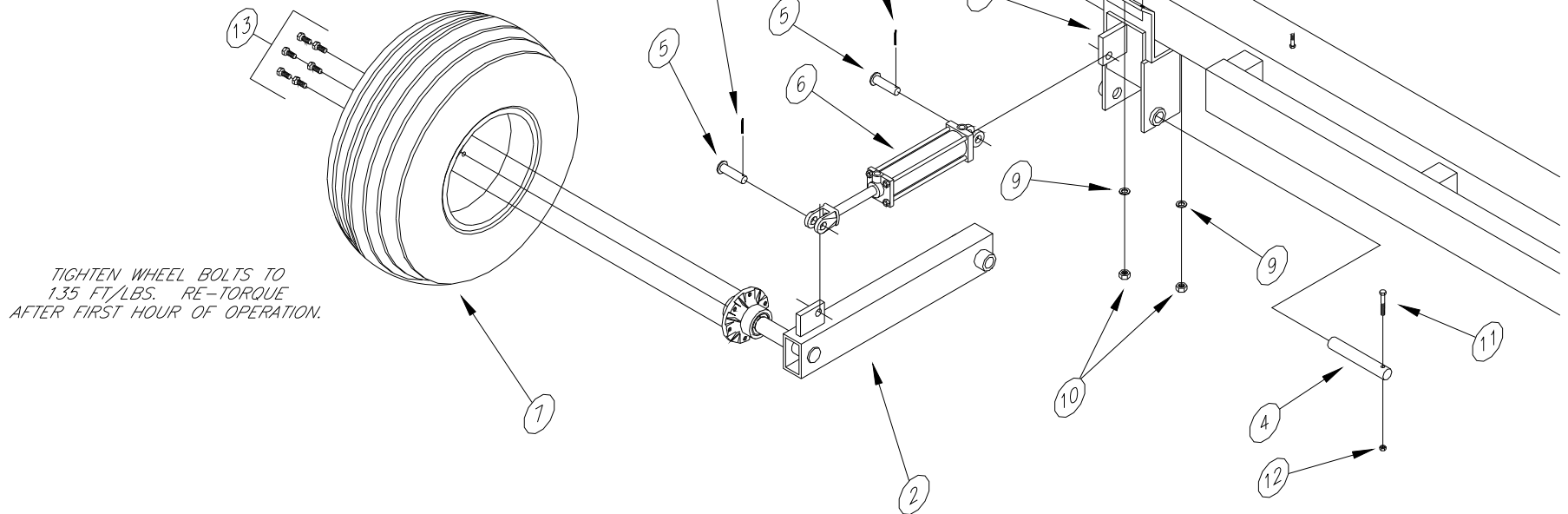


RIGHT GAUGEWHEEL ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801689	RIGHT LOWER SADDLE CLAMP ASSEMBLY
2	1	801342	RIGHT WHEEL ARM ASSEMBLY
3	1	400185	TOP SADDLE CLAMP
4	1	602213	Ø1.50 X 9-1/4" HINGE PIN
5	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
6	1	204015	3-1/4 X 10" REPHASE CYLINDER
7	1	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEMBLY
8	6	101173	3/4-10 X 3" HEX BOLT
9	6	101224	3/4" LOCK WASHER
10	6	101215	3/4-10 HEX NUT
11	1	101140	7/16-14 X 3" HEX BOLT
12	1	101456	7/16-14 TOPLOCK NUT
13	6	301151	9/16-18 X 1-1/8" LUG BOLT
14	2	101247	7/32 X 2" COTTER PIN

REVISED: 2/5/01

ATTACH GAUGEWHEEL APPROXIMATELY 41-3/4" FROM THE END OF THE WING TUBE TO THE EDGE OF THE SADDLE CLAMP. BE SURE SADDLE CLAMP WILL NOT INTERFERE WITH COULTERS.

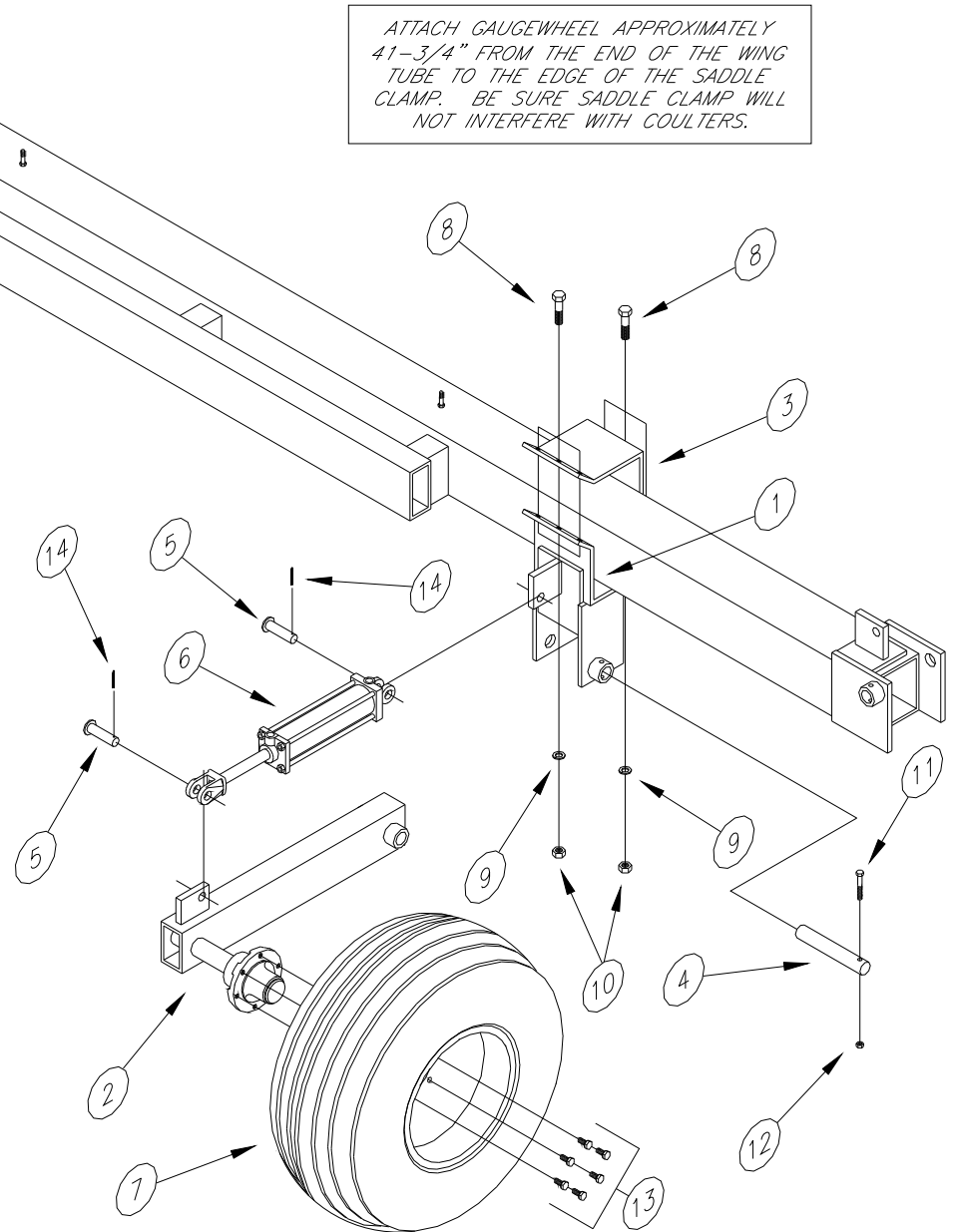


LEFT GAUGEWHEEL ASSEMBLY

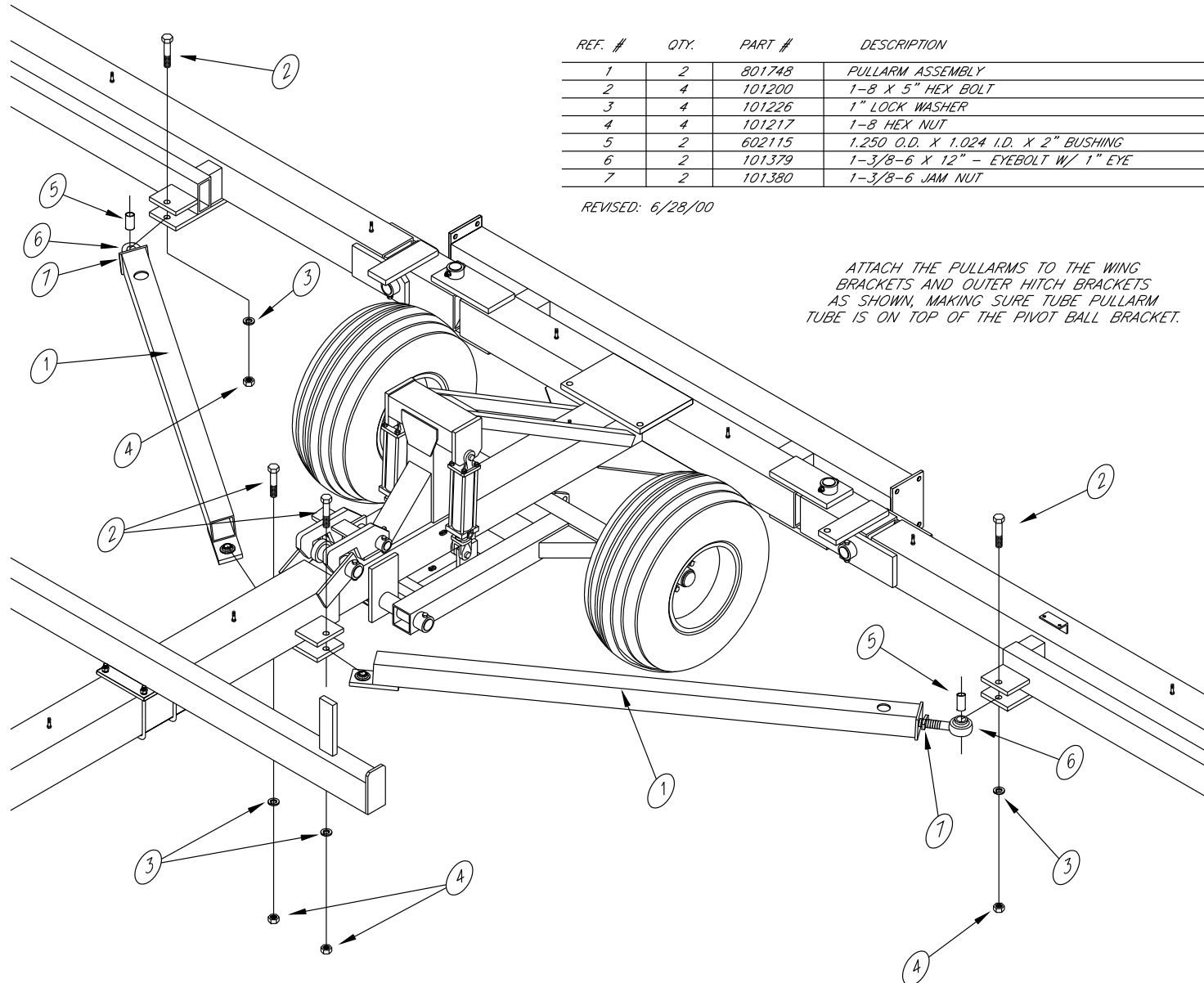
REF. #	QTY.	PART #	DESCRIPTION
1	1	801690	LEFT LOWER SADDLE CLAMP ASSEMBLY
2	1	801341	LEFT WHEEL ARM ASSEMBLY
3	1	400185	TOP SADDLE CLAMP
4	1	602213	Ø1.50 X 9-1/4" HINGE PIN
5	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
6	1	204015	3-1/4 X 10" REPHASE CYLINDER
7	1	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEMBLY
8	6	101173	3/4-10 X 3" HEX BOLT
9	6	101224	3/4" LOCK WASHER
10	6	101215	3/4-10 HEX NUT
11	1	101140	7/16-14 X 3" HEX BOLT
12	1	101456	7/16-14 TOPLOCK NUT
13	6	301151	9/16-18 X 1-1/8" LUG BOLT
14	2	101247	7/32 X 2" COTTER PIN

REVISED: 2/5/01

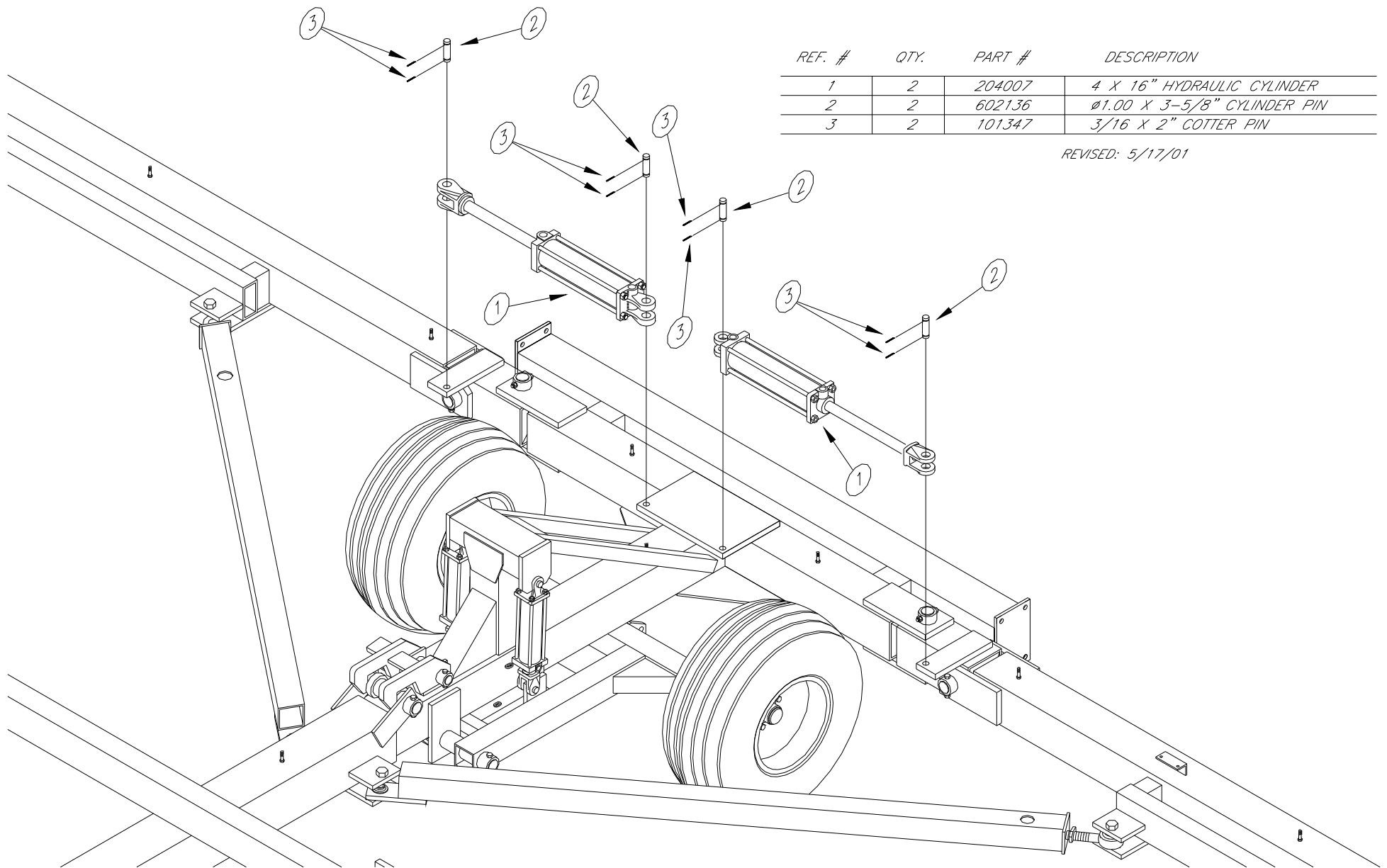
TIGHTEN WHEEL BOLTS TO
135 FT/LBS. RE-TORQUE
AFTER FIRST HOUR OF OPERATION.



PULLARM ATTACHMENT



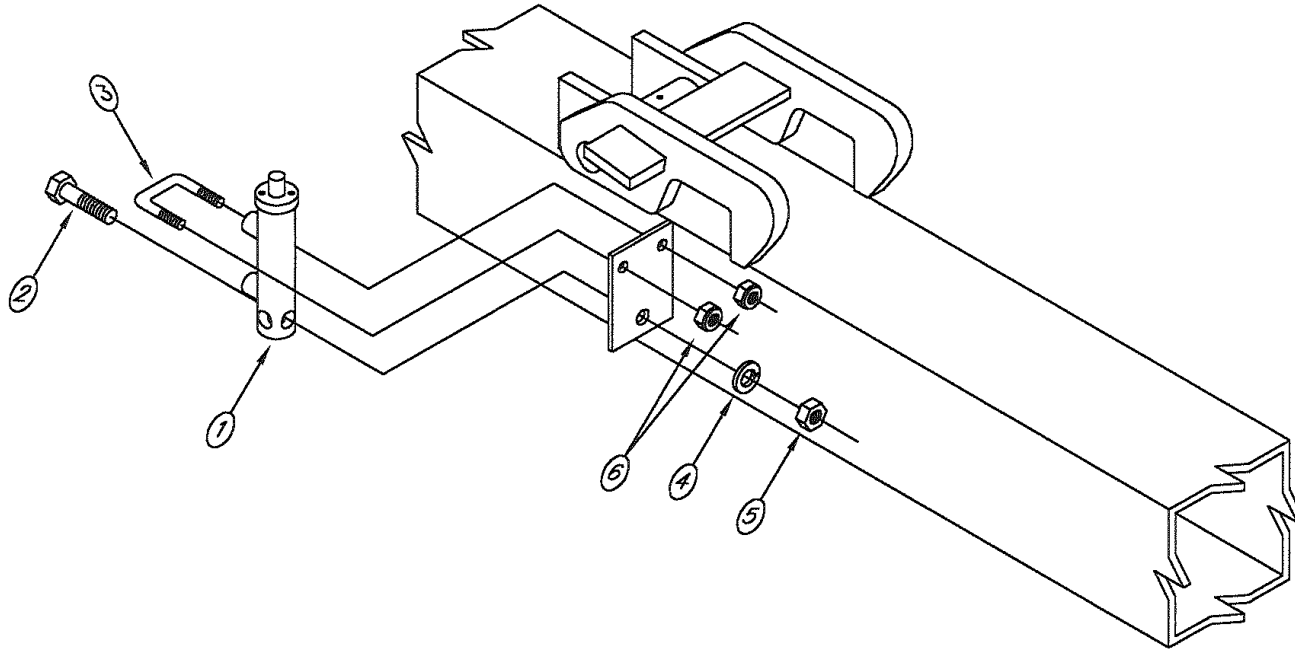
ATTACHING THE WING FOLD CYLINDERS



REF. #	QTY.	PART #	DESCRIPTION
1	2	204007	4 X 16" HYDRAULIC CYLINDER
2	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
3	2	101347	3/16 X 2" COTTER PIN

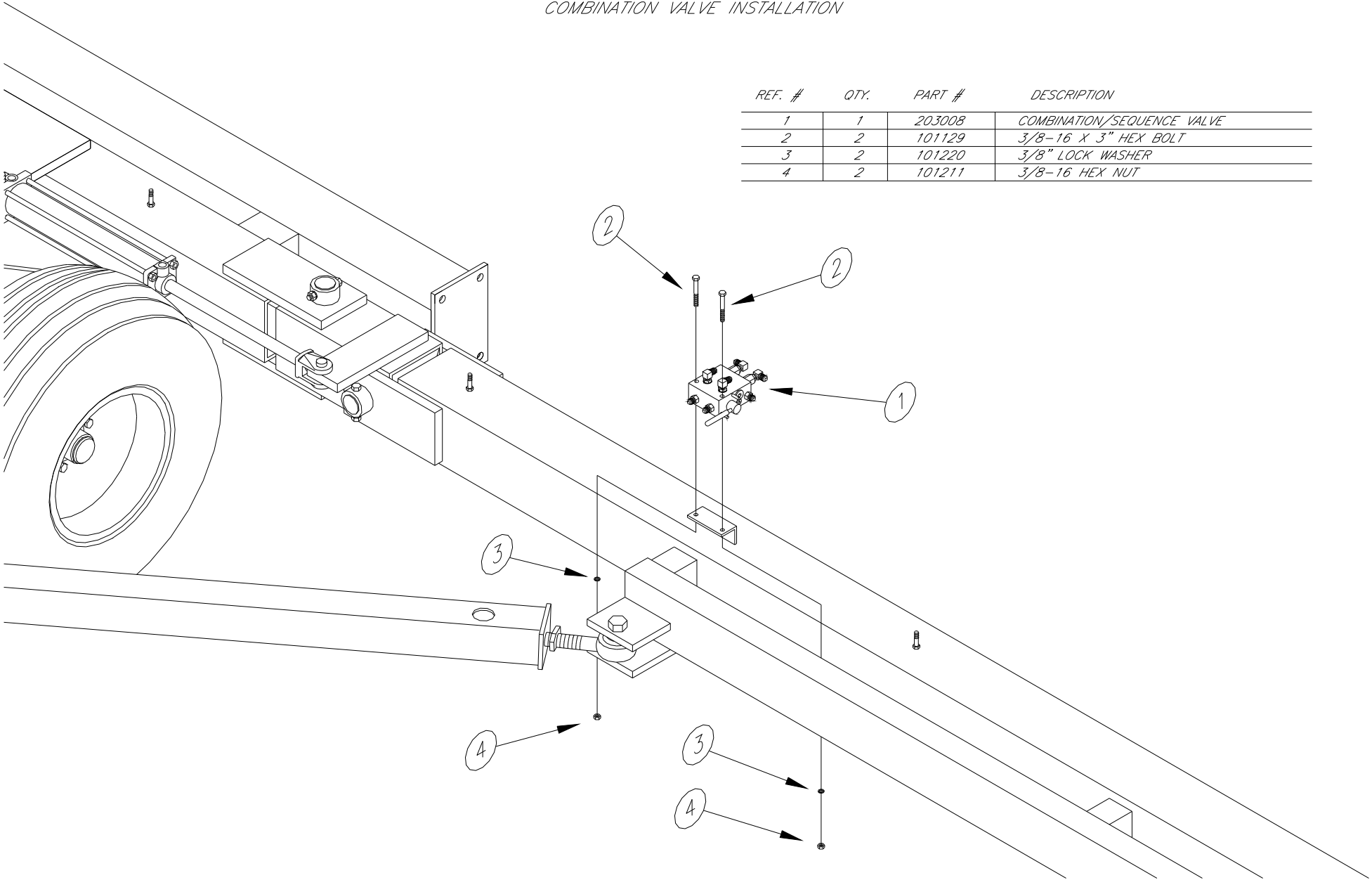
REVISED: 5/17/01

INSTALLING THE SAFETY LATCH HYDRAULIC RAM



REF. #	QTY.	PART #	DESCRIPTION
1	1	204020	1-1/2 X 2-1/2 HYDRAULIC RAM
2	1	101173	3/4-10 X 3" - HEX BOLT - PLT.
3	1	101355	1/2-13 X 2 X 2-1/2" U-BOLT-PLT.
4	1	101224	3/4" LOCK WASHER - PLT.
5	1	101215	3/4-10 HEX NUT - PLT.
6	2	101457	1/2-13 TOP LOCK NUT

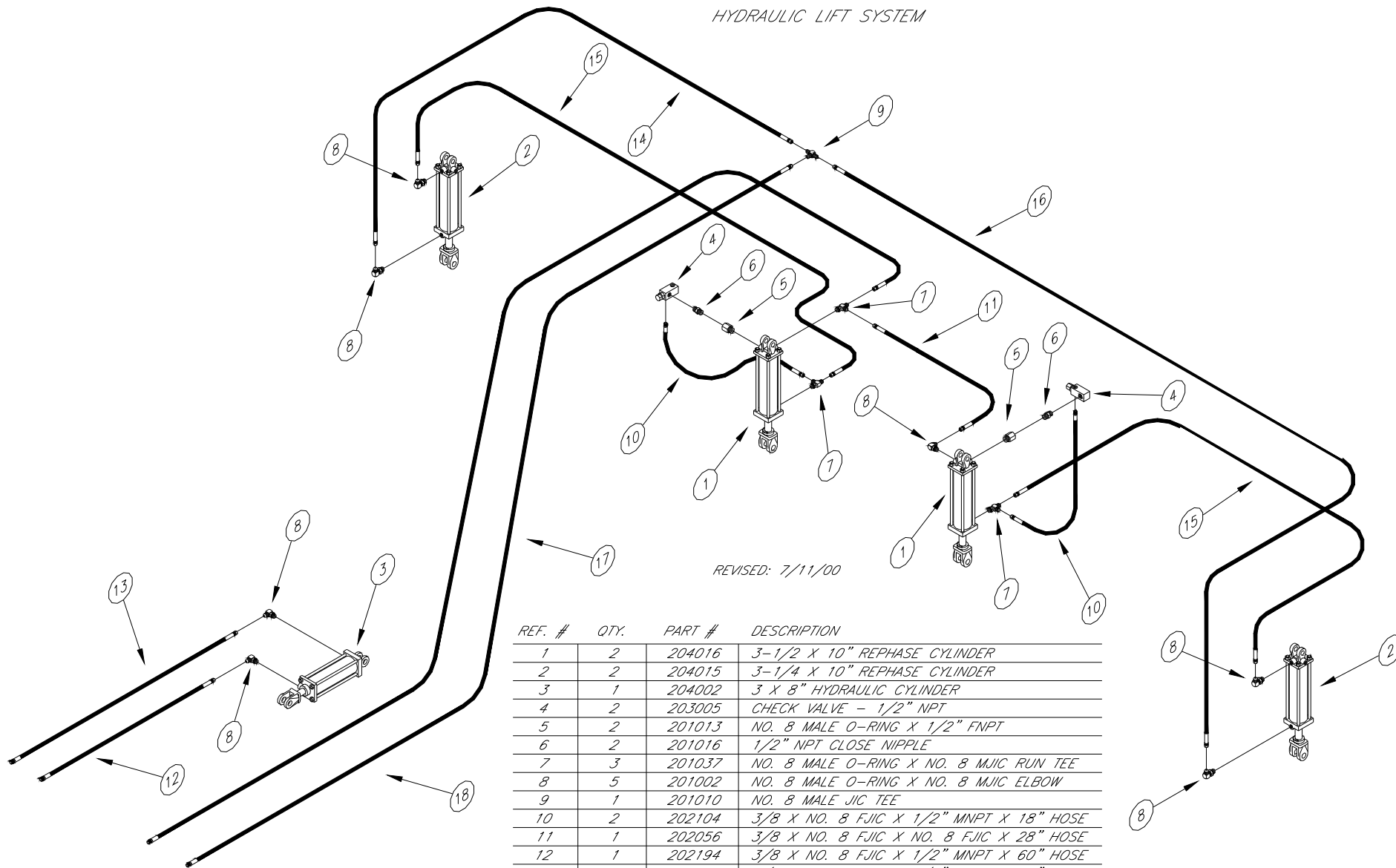
COMBINATION VALVE INSTALLATION



REF. #	QTY.	PART #	DESCRIPTION
1	1	203008	COMBINATION/SEQUENCE VALVE
2	2	101129	3/8-16 X 3" HEX BOLT
3	2	101220	3/8" LOCK WASHER
4	2	101211	3/8-16 HEX NUT

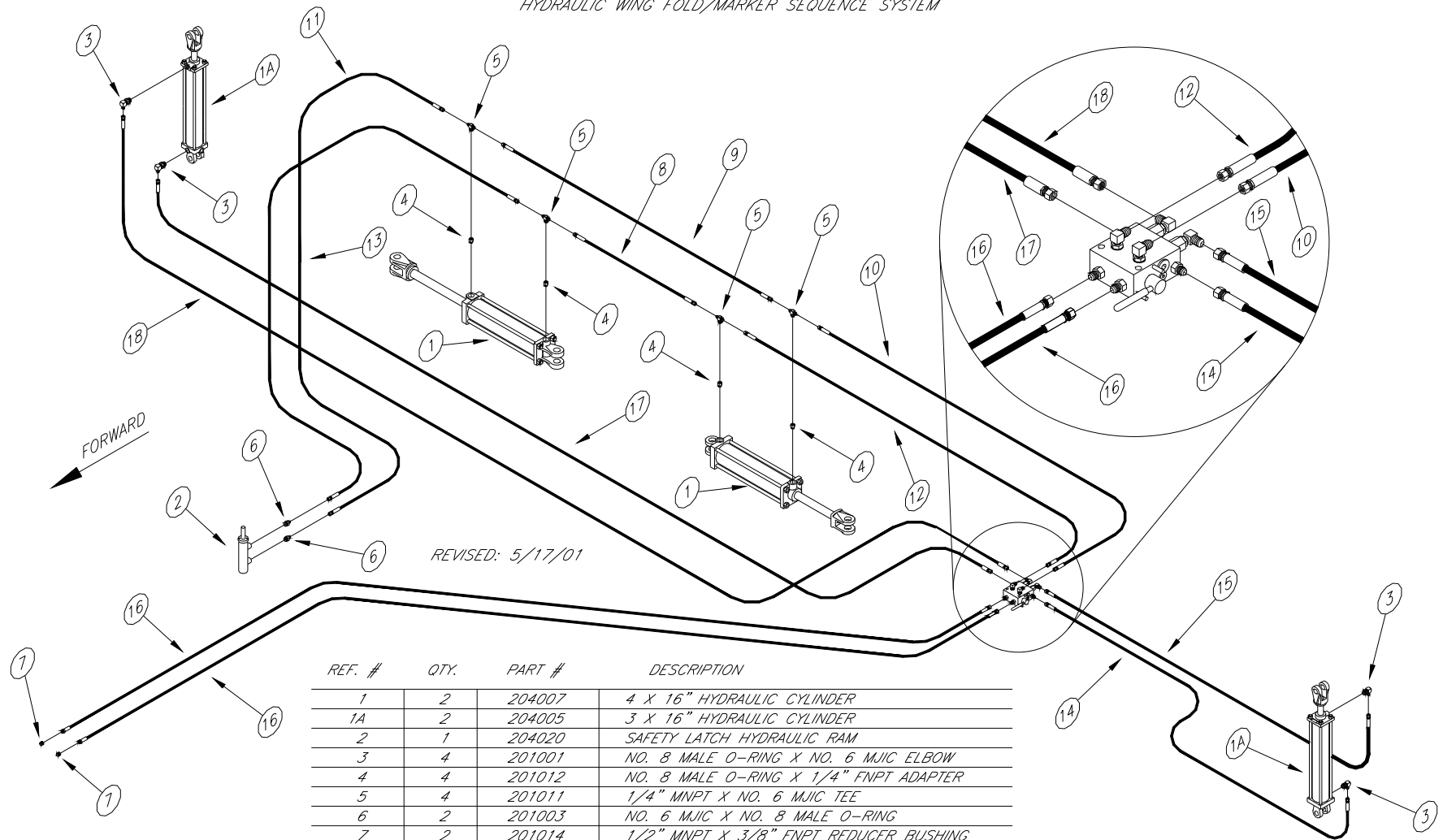
HYDRAULIC LIFT SYSTEM

REVISED: 7/11/00



REF. #	QTY.	PART #	DESCRIPTION
1	2	204016	3-1/2 X 10" REPHASE CYLINDER
2	2	204015	3-1/4 X 10" REPHASE CYLINDER
3	1	204002	3 X 8" HYDRAULIC CYLINDER
4	2	203005	CHECK VALVE - 1/2" NPT
5	2	201013	NO. 8 MALE O-RING X 1/2" FNPT
6	2	201016	1/2" NPT CLOSE NIPPLE
7	3	201037	NO. 8 MALE O-RING X NO. 8 MJIC RUN TEE
8	5	201002	NO. 8 MALE O-RING X NO. 8 MJIC ELBOW
9	1	201010	NO. 8 MALE JIC TEE
10	2	202104	3/8 X NO. 8 FJIC X 1/2" MNPT X 18" HOSE
11	1	202056	3/8 X NO. 8 FJIC X NO. 8 FJIC X 28" HOSE
12	1	202194	3/8 X NO. 8 FJIC X 1/2" MNPT X 60" HOSE
13	1	202195	3/8 X NO. 8 FJIC X 1/2" MNPT X 72" HOSE
14	1	202082	3/8 X NO. 8 FJIC X NO. 8 FJIC X 120" HOSE
15	2	202083	3/8 X NO. 8 FJIC X NO. 8 FJIC X 264" HOSE
16	1	202084	3/8 X NO. 8 FJIC X NO. 8 FJIC X 324" HOSE
17	1	202071	3/8 X NO. 8 FJIC X 1/2" MNPT X 324" HOSE
18	1	202078	3/8 X NO. 8 FJIC X 1/2" MNPT X 432" HOSE

HYDRAULIC WING FOLD/MARKER SEQUENCE SYSTEM



ROUTE THE 1/4" HOSES FROM THE TRACTOR DOWN THE HITCH TUBE, THEN THRU THE LEFT PULLARM TUBE TO THE COMBINATION VALVE AS SHOWN.

REF. #	QTY.	PART #	DESCRIPTION
1	2	204007	4 X 16" HYDRAULIC CYLINDER
1A	2	204005	3 X 16" HYDRAULIC CYLINDER
2	1	204020	SAFETY LATCH HYDRAULIC RAM
3	4	201001	NO. 8 MALE O-RING X NO. 6 MJIC ELBOW
4	4	201012	NO. 8 MALE O-RING X 1/4" FNPT ADAPTER
5	4	201011	1/4" MNPT X NO. 6 MJIC TEE
6	2	201003	NO. 6 MJIC X NO. 8 MALE O-RING
7	2	201014	1/2" MNPT X 3/8" FNPT REDUCER BUSHING
8	1	202107	1/4 X NO. 6 FJIC X NO. 6 FJIC X 21" HOSE
9	1	202089	1/4 X NO. 6 FJIC X NO. 6 FJIC X 59" HOSE
10	1	202108	1/4 X NO. 6 FJIC X NO. 6 FJIC X 68" HOSE
11	1	202007	1/4 X NO. 6 FJIC X NO. 6 FJIC X 84" HOSE
12	1	202106	1/4 X NO. 6 FJIC X NO. 6 FJIC X 87" HOSE
13	1	202226	1/4 X NO. 6 FJIC X NO. 6 FJIC X 104" HOSE
14	1	202038	1/4 X NO. 6 FJIC X NO. 6 FJIC X 162" HOSE
15	1	202039	1/4 X NO. 6 FJIC X NO. 6 FJIC X 180" HOSE
16	2	202227	1/4 X 3/8" MNPT X NO. 6 FJIC X 324" HOSE
17	1	202087	1/4 X NO. 6 FJIC X NO. 6 FJIC X 354" HOSE
18	1	202086	1/4 X NO. 6 FJIC X NO. 6 FJIC X 372" HOSE

HYDRAULIC COMPONENTS



201012



201011



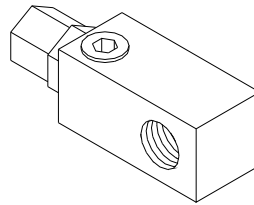
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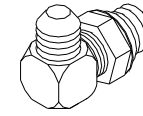
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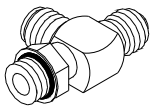
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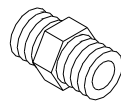
203005



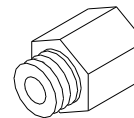
201002



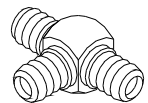
201037



201016



201013



201010

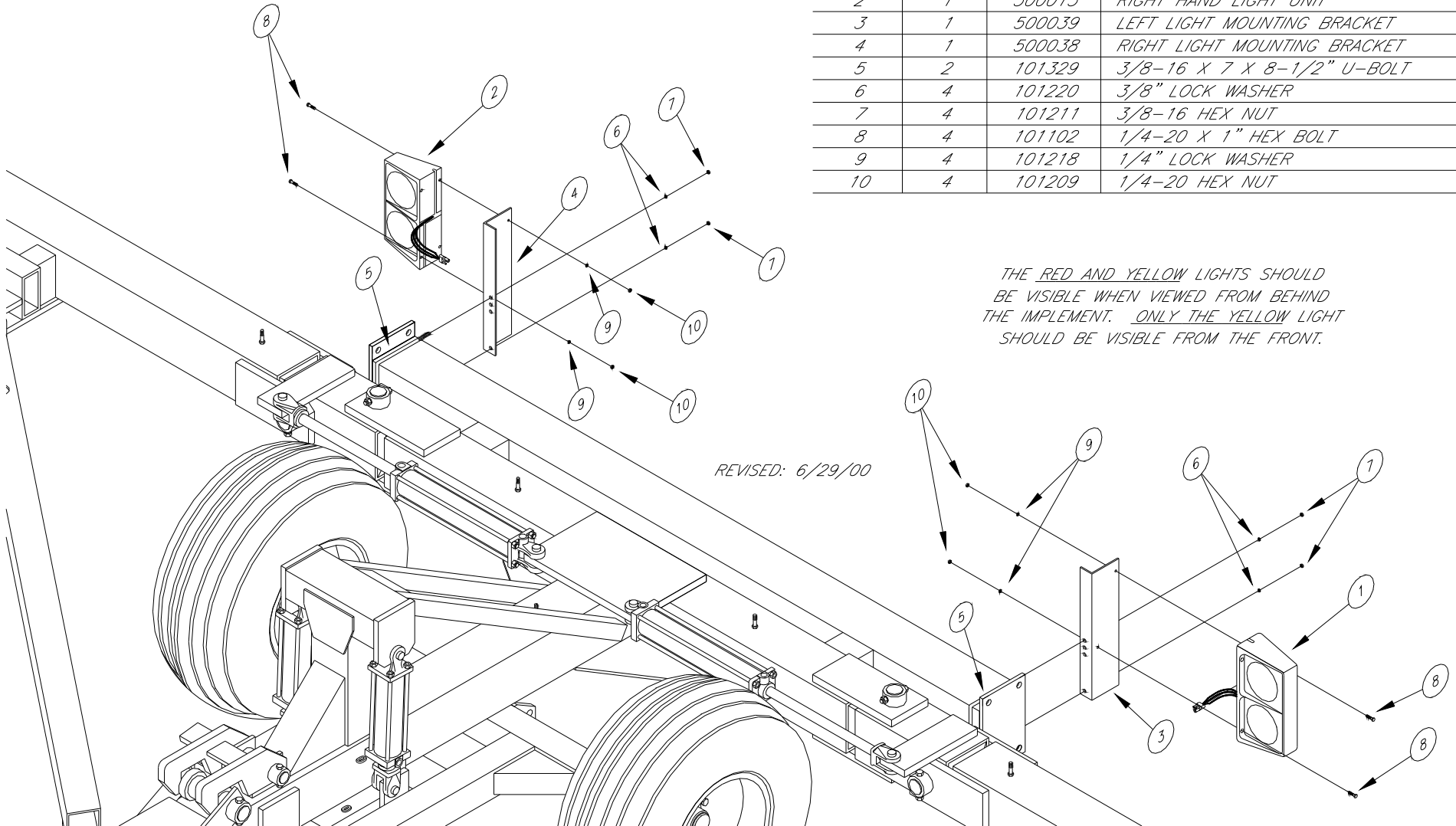
LIGHT ATTACHMENT

LIGHTS SHOULD BE MOUNTED AS FAR OUT ON THE MAINFRAME AS POSSIBLE.

REF. #	QTY.	PART #	DESCRIPTION
1	1	500016	LEFT HAND LIGHT UNIT
2	1	500015	RIGHT HAND LIGHT UNIT
3	1	500039	LEFT LIGHT MOUNTING BRACKET
4	1	500038	RIGHT LIGHT MOUNTING BRACKET
5	2	101329	3/8-16 X 7 X 8-1/2" U-BOLT
6	4	101220	3/8" LOCK WASHER
7	4	101211	3/8-16 HEX NUT
8	4	101102	1/4-20 X 1" HEX BOLT
9	4	101218	1/4" LOCK WASHER
10	4	101209	1/4-20 HEX NUT

THE RED AND YELLOW LIGHTS SHOULD BE VISIBLE WHEN VIEWED FROM BEHIND THE IMPLEMENT. ONLY THE YELLOW LIGHT SHOULD BE VISIBLE FROM THE FRONT.

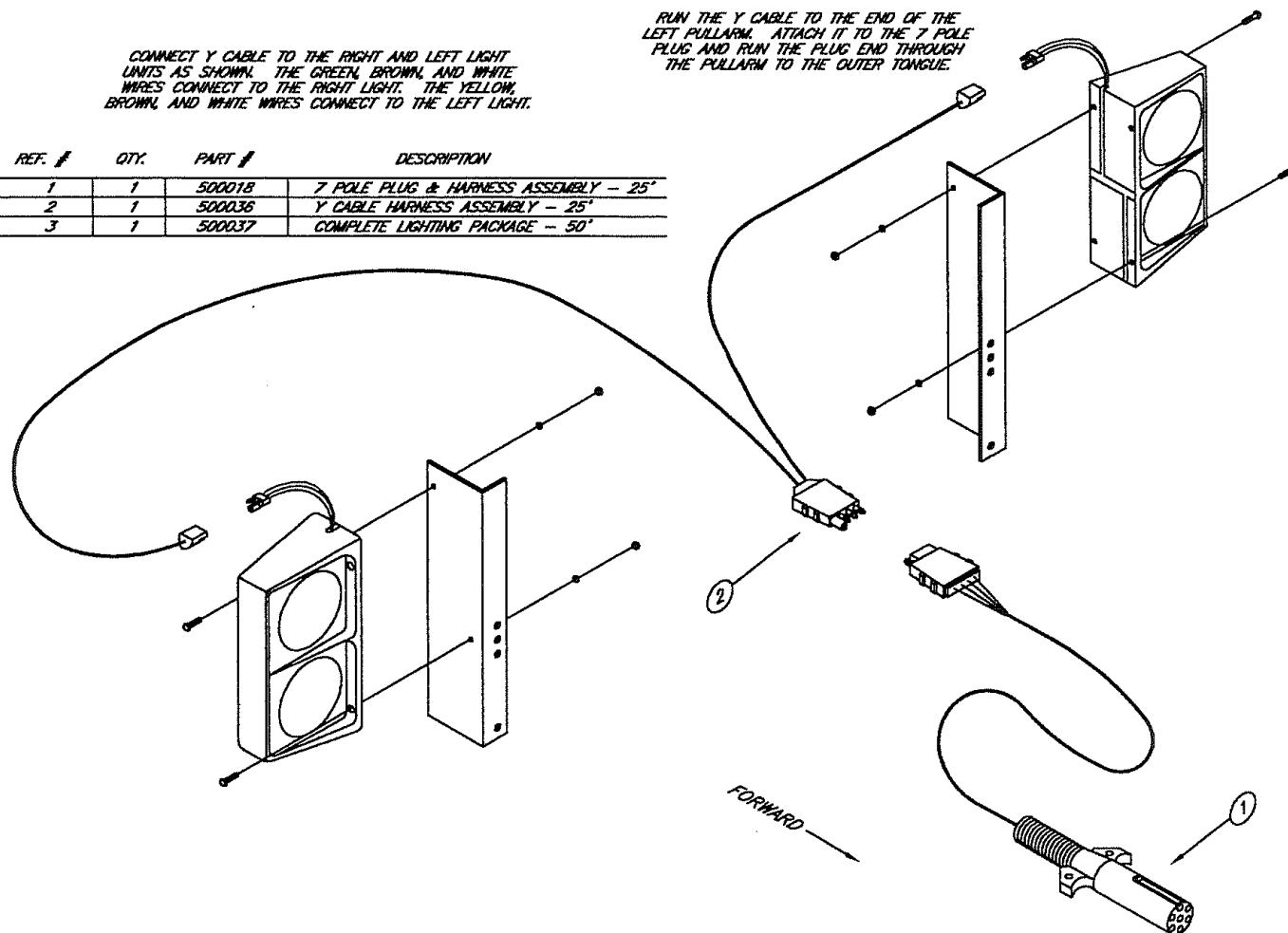
REVISED: 6/29/00



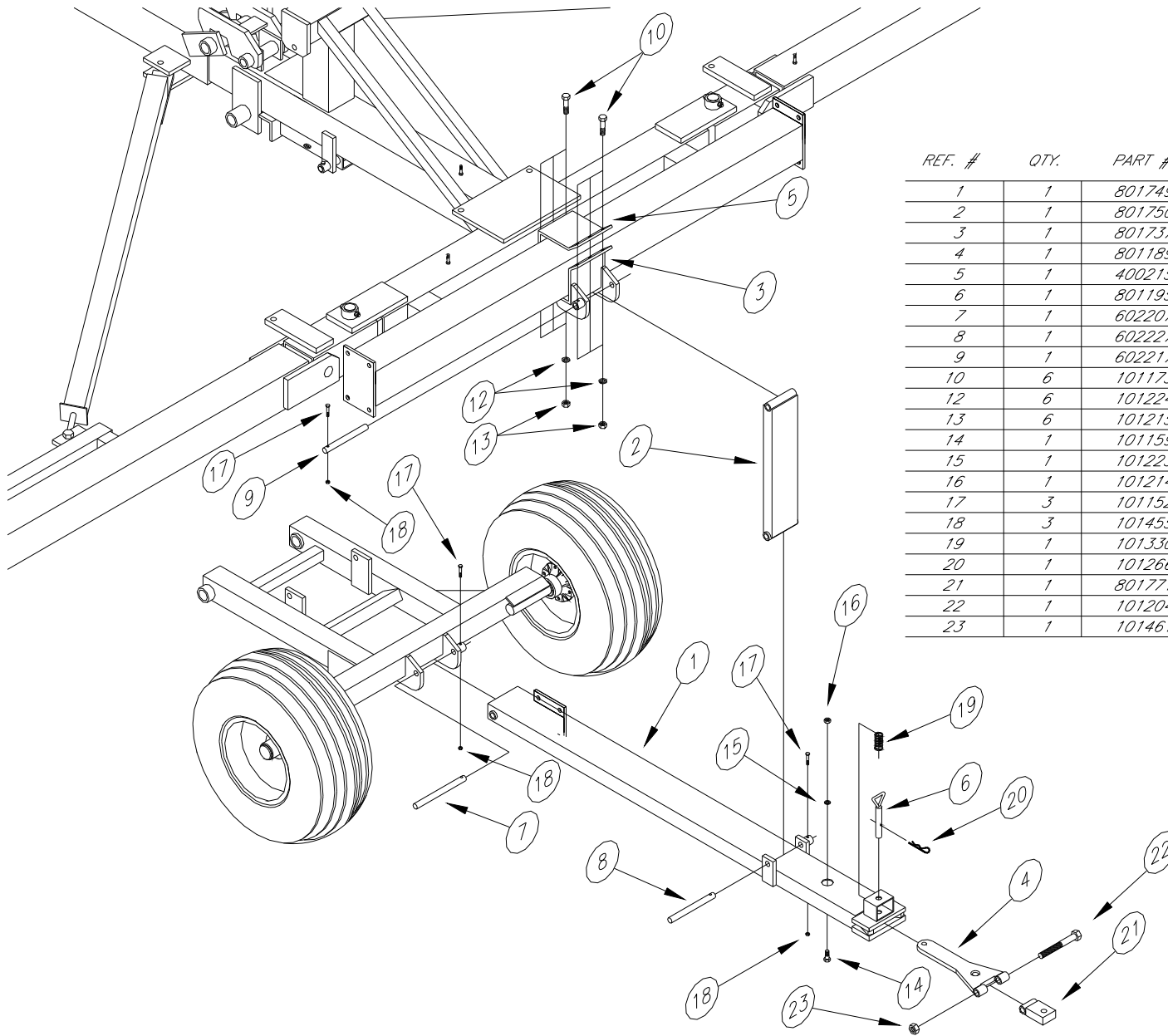
CONNECT Y CABLE TO THE RIGHT AND LEFT LIGHT UNITS AS SHOWN. THE GREEN, BROWN, AND WHITE WIRES CONNECT TO THE RIGHT LIGHT. THE YELLOW, BROWN, AND WHITE WIRES CONNECT TO THE LEFT LIGHT.

RUN THE Y CABLE TO THE END OF THE LEFT PULLARM. ATTACH IT TO THE 7 POLE PLUG AND RUN THE PLUG END THROUGH THE PULLARM TO THE OUTER TONGUE.

REF. #	QTY.	PART #	DESCRIPTION
1	1	500018	7 POLE PLUG & HARNESS ASSEMBLY - 25'
2	1	500036	Y CABLE HARNESS ASSEMBLY - 25'
3	1	500037	COMPLETE LIGHTING PACKAGE - 50'



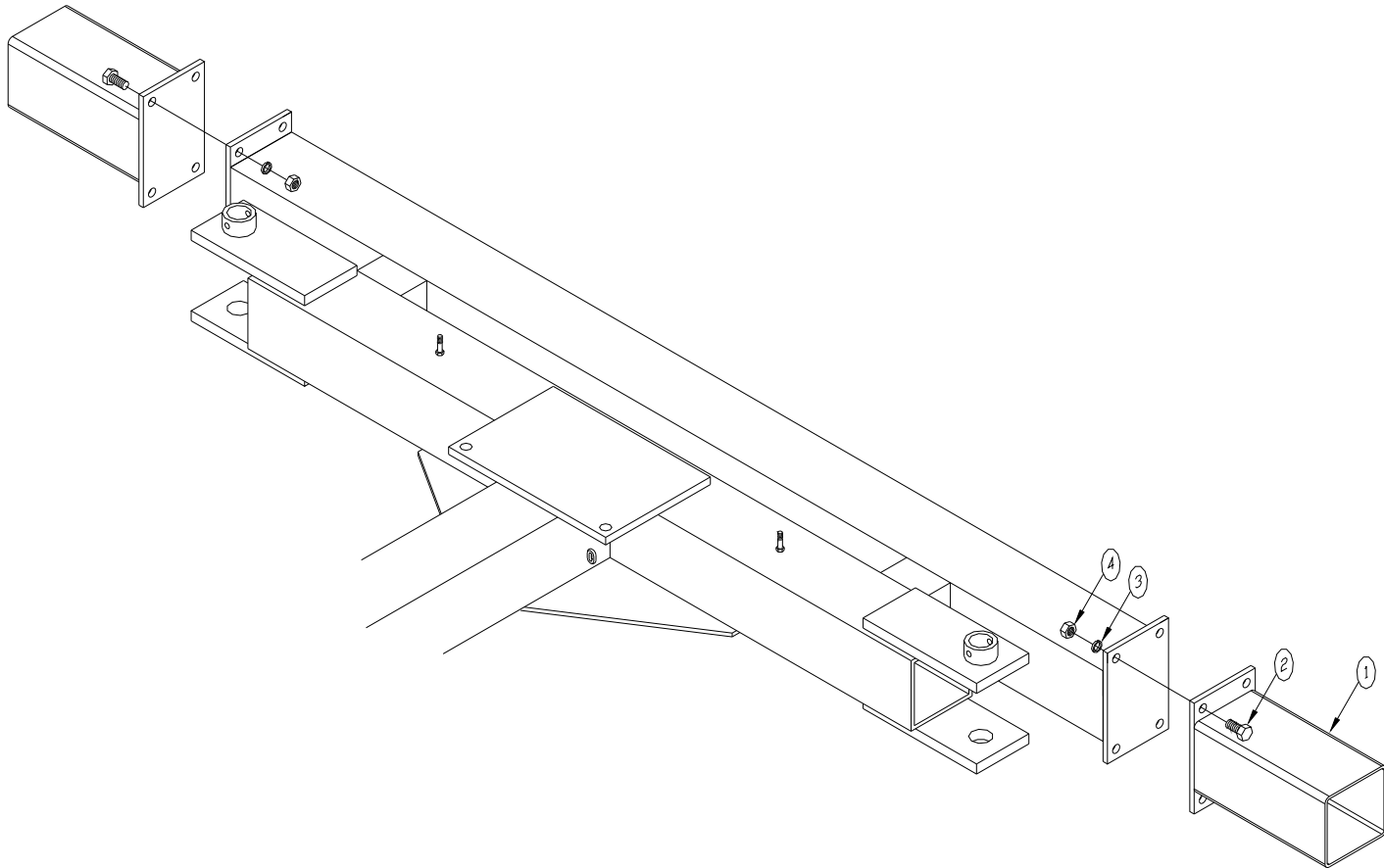
SELF-LEVELING HITCH ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801749	SELF-LEVELING HITCH
2	1	801750	PARALLEL LINK - 27-1/2" LONG
3	1	801737	LOWER SADDLE CLAMP ASSEMBLY
4	1	801189	DRAWBAR
5	1	400215	1/2 X 8 X 17" SADDLE CLAMP
6	1	801195	DRAWBAR PIN
7	1	602207	Ø1.00 X 11-1/2" HINGE PIN
8	1	602227	Ø1.00 X 10-1/4" HINGE PIN
9	1	602217	Ø1.00 X 9-3/4" HINGE PIN
10	6	101173	3/4-10 X 3" HEX BOLT
12	6	101224	3/4" LOCK WASHER
13	6	101215	3/4-10 HEX NUT
14	1	101159	5/8-11 X 1-1/2" HEX BOLT
15	1	101223	5/8" LOCK WASHER
16	1	101214	5/8-11 HEX NUT
17	3	101152	3/8-16 X 2" HEX BOLT
18	3	101455	3/8-16 TOPLOCK NUT
19	1	101330	COMPRESSION SPRING
20	1	101266	3/16" HAIRPIN
21	1	801771	DRAWBAR CLEVIS
22	1	101204	1-8 X 8" HEX BOLT
23	1	101461	1-8 TOPLOCK NUT

REVISED: 5/16/01

ATTACHING THE MAINFRAME EXTENSIONS

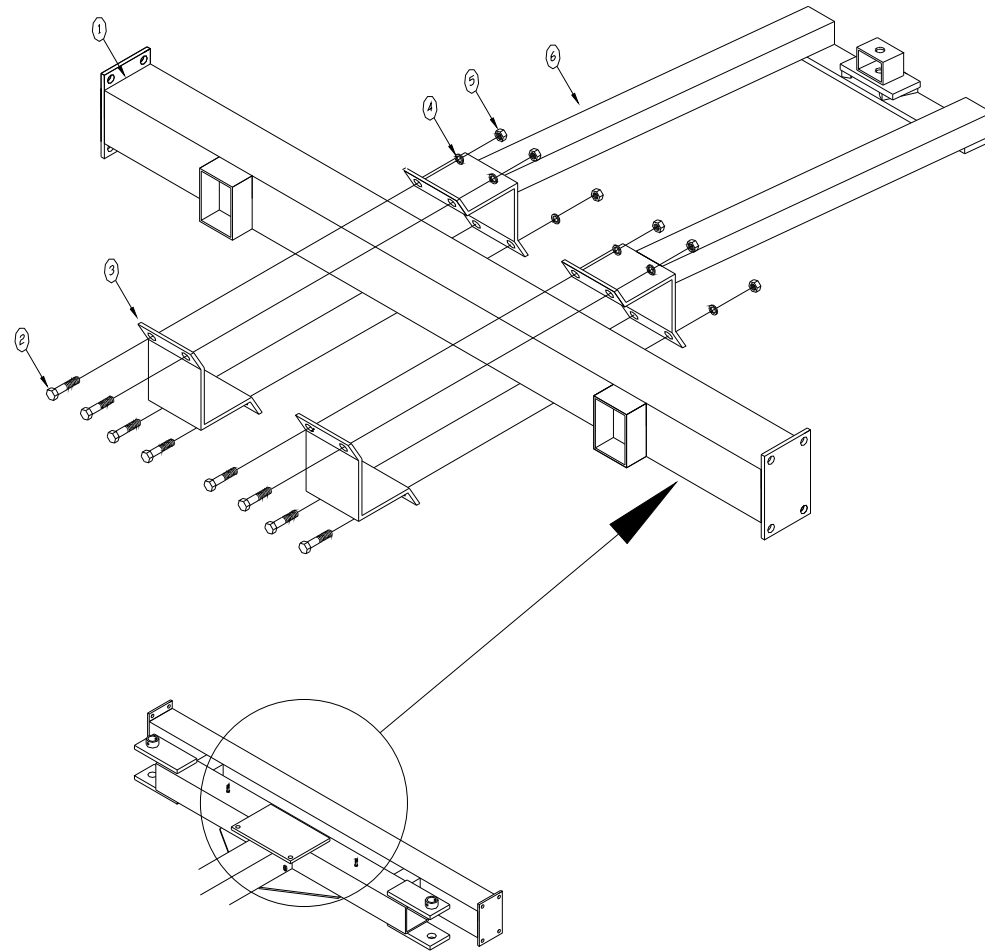


ATTACHING THE MAINFRAME EXTENSIONS

NOTES:

<i>ITEM</i>	<i>QTY</i>	<i>PART#</i>	<i>DESCRIPTION</i>
<i>1</i>	<i>2</i>	<i>768726046</i>	<i>MAINFRAME EXTENSION WELDMENT</i>
<i>2</i>	<i>8</i>	<i>76101171</i>	<i>3/4-10 X 2" PL T. GR.5</i>
<i>3</i>	<i>8</i>	<i>76101224</i>	<i>3/4" LOCKWASHER - PL T.</i>
<i>4</i>	<i>8</i>	<i>76101215</i>	<i>3/4-10 HEX NUT - PL T.</i>

REAR RIGID HITCH ATTACHMENT



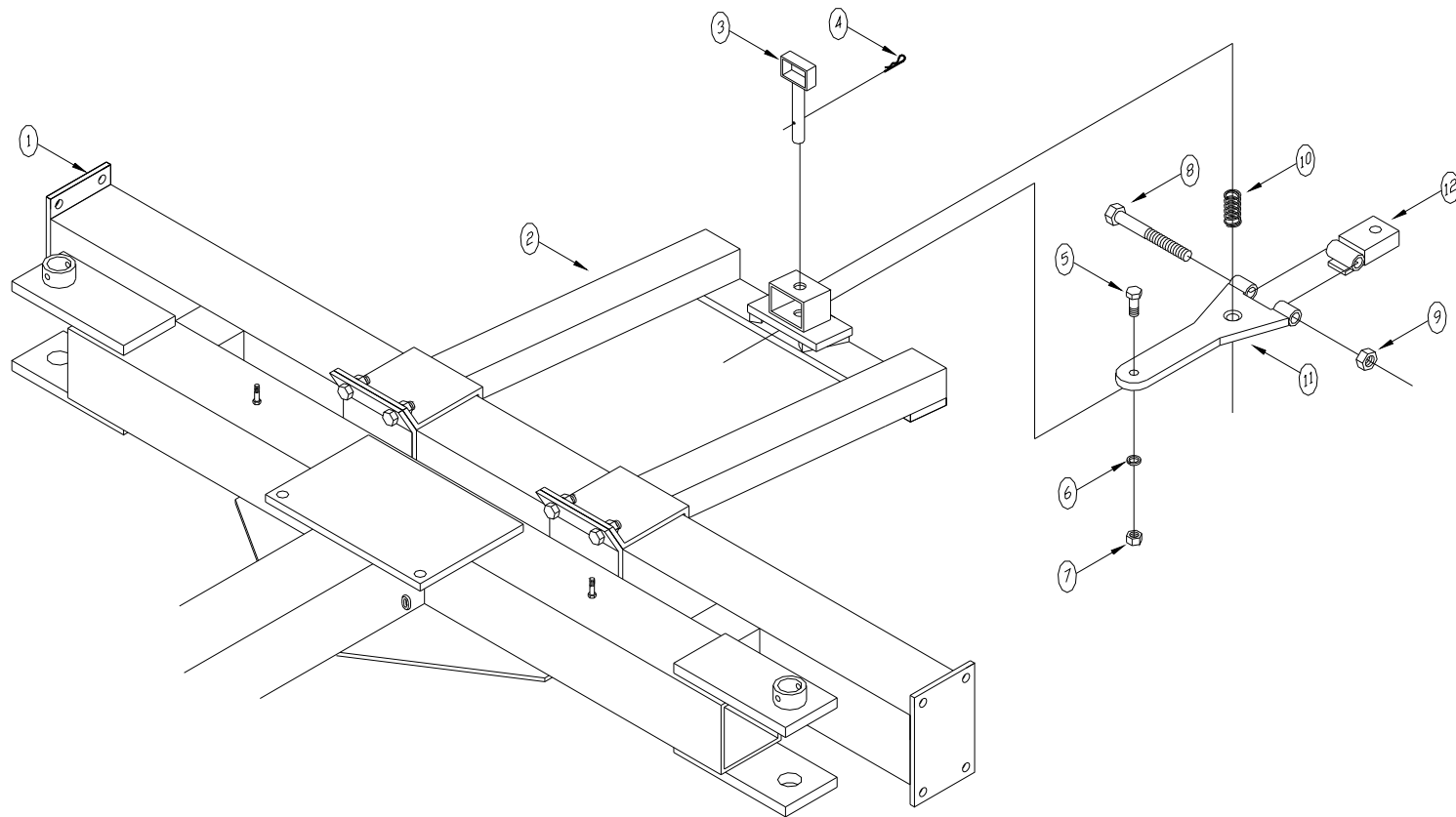
REAR RIGID HITCH ATTACHMENT

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	-----	MAINFRAME
2	8	76101173	3/4-10 X 3" HEX BOLT - PLT., GR5
3	2	76400200	1/2 X 6 X 15" - SADDLE CLAMP
4	8	76101224	3/4" LOCK WASHER - PLT.
5	8	76101215	3/4-10 HEX NUT - PLT.
6	1	768726046	REAR RIGID HITCH

CENTER RIGID REAR HITCH (6) ON REAR
TUBE OF MAINFRAME (1).

ATTACHING THE DRAWBAR AND CLEVIS

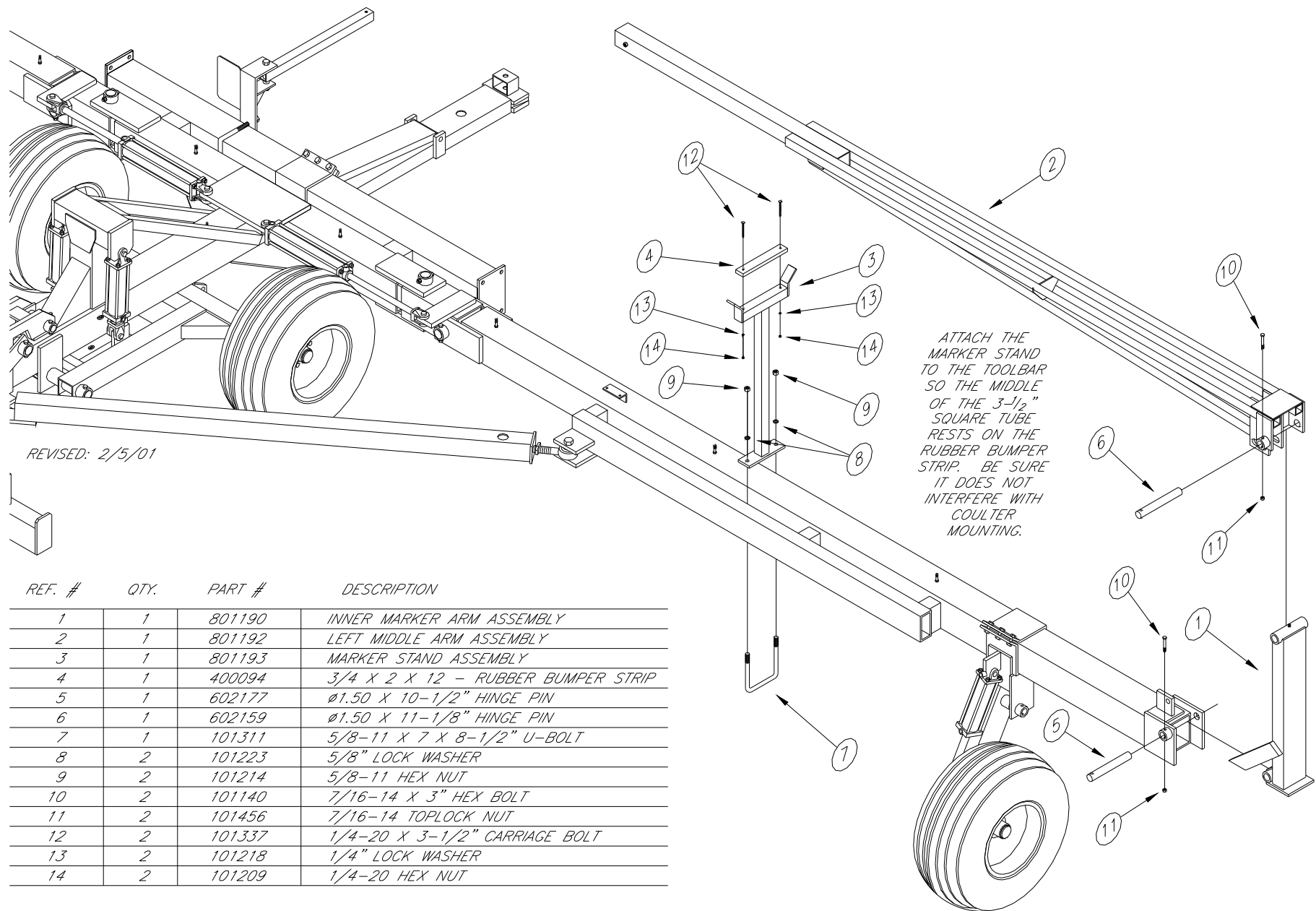


ATTACHING THE DRAWBAR AND CLEVIS

NOTES:

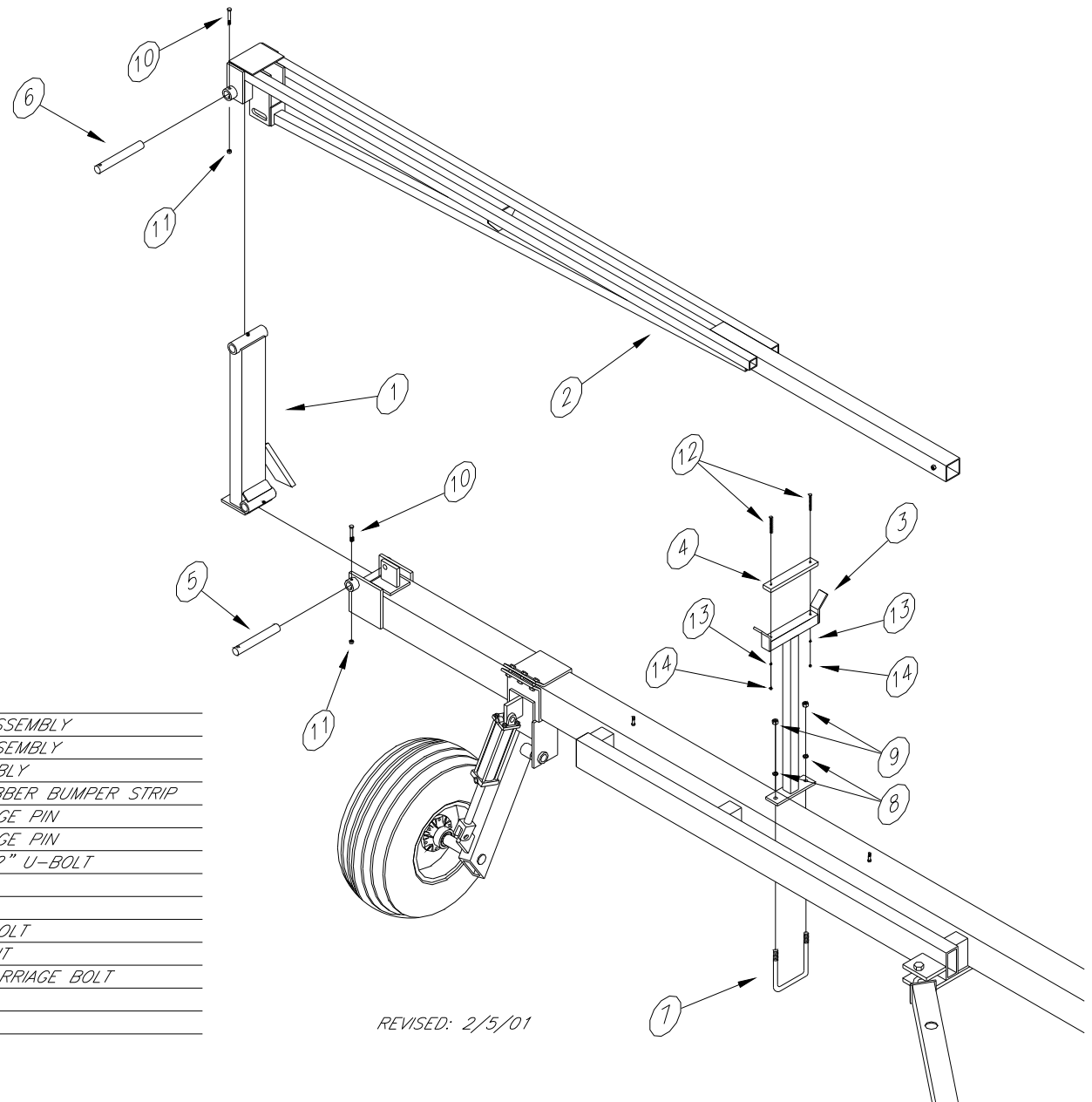
<i>ITEM</i>	<i>QTY</i>	<i>PART#</i>	<i>DESCRIPTION</i>
<i>1</i>	<i>1</i>	<i>-----</i>	<i>MAINFRAME</i>
<i>2</i>	<i>1</i>	<i>768726046</i>	<i>RIGID REAR HITCH</i>
<i>3</i>	<i>1</i>	<i>76801195</i>	<i>Ø1.00 X 6" WELDED PIN</i>
<i>4</i>	<i>1</i>	<i>76101266</i>	<i>3/16" HAIR PIN</i>
<i>5</i>	<i>1</i>	<i>76101171</i>	<i>3/4-10 X 2" HEX BOLT - PL T. GR5</i>
<i>6</i>	<i>1</i>	<i>76101224</i>	<i>3/4" LOCK WASHER - PL T.</i>
<i>7</i>	<i>1</i>	<i>76101215</i>	<i>3/4-10 HEX NUT - PL T.</i>
<i>8</i>	<i>1</i>	<i>76101204</i>	<i>1-8 X 8" HEX BOLT - PL T. GR5</i>
<i>9</i>	<i>1</i>	<i>76101461</i>	<i>1-8 TOP LOCK NUT - PL T.</i>
<i>10</i>	<i>1</i>	<i>76101330</i>	<i>COMPRESSION SPRING</i>
<i>11</i>	<i>1</i>	<i>76801189</i>	<i>DRAWBAR</i>
<i>12</i>	<i>1</i>	<i>76801771</i>	<i>DRAWBAR CLEVIS</i>

LEFT MARKER ARM AND STAND ASSEMBLY

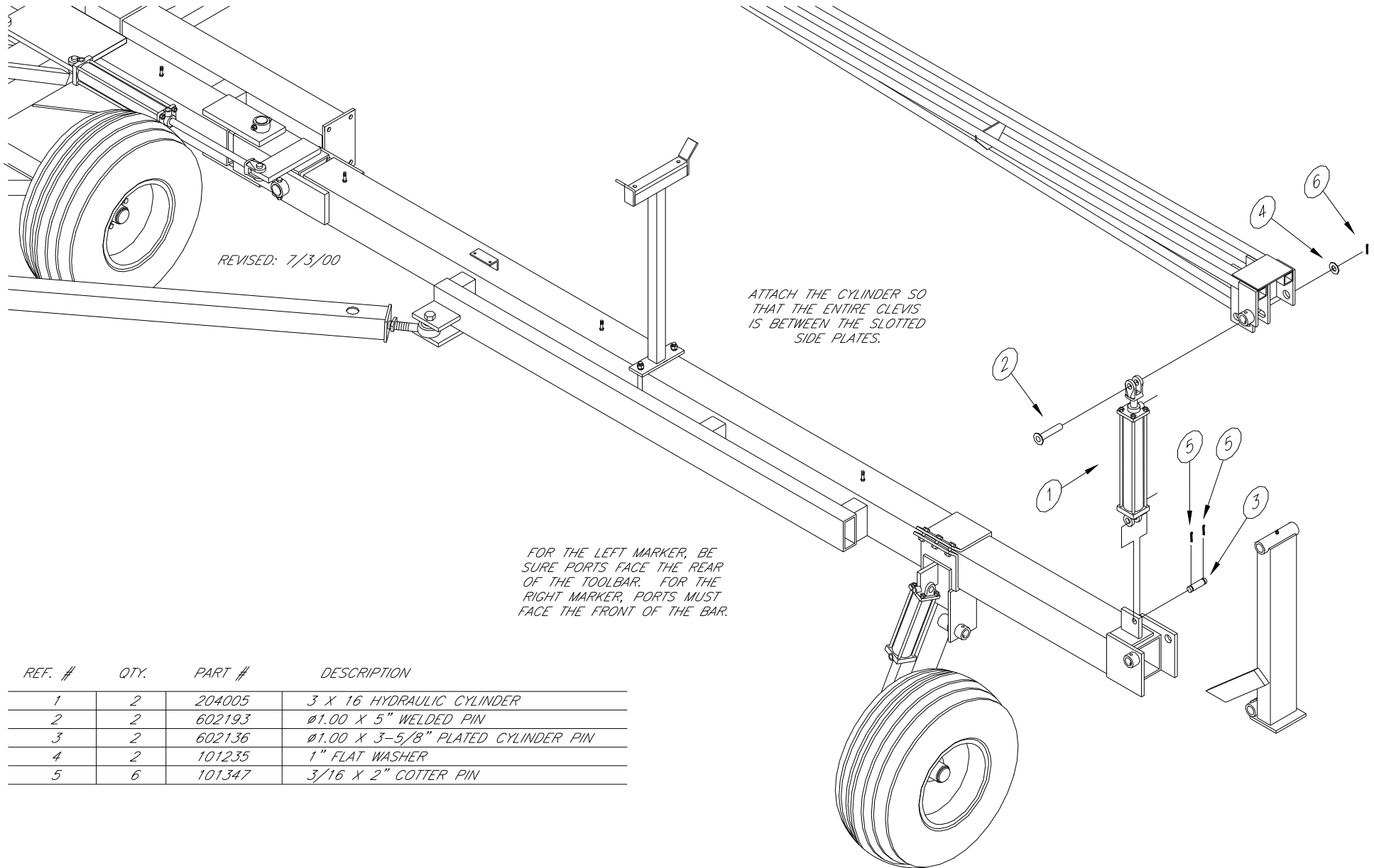


RIGHT MARKER ARM AND STAND ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801190	INNER MARKER ARM ASSEMBLY
2	1	801191	RIGHT MIDDLE ARM ASSEMBLY
3	1	801193	MARKER STAND ASSEMBLY
4	1	400094	3/4 X 2 X 12 - RUBBER BUMPER STRIP
5	1	602177	Ø1.50 X 10-1/2" HINGE PIN
6	1	602159	Ø1.50 X 11-1/8" HINGE PIN
7	1	101311	5/8-11 X 7 X 8-1/2" U-BOLT
8	1	101223	5/8" LOCK WASHER
9	2	101214	5/8-11 HEX NUT
10	2	101140	7/16-14 X 3" HEX BOLT
11	2	101456	7/16-14 TOPLOCK NUT
12	2	101337	1/4-20 X 3-1/2" CARRIAGE BOLT
13	2	101218	1/4" LOCK WASHER
14	2	101209	1/4-20 HEX NUT

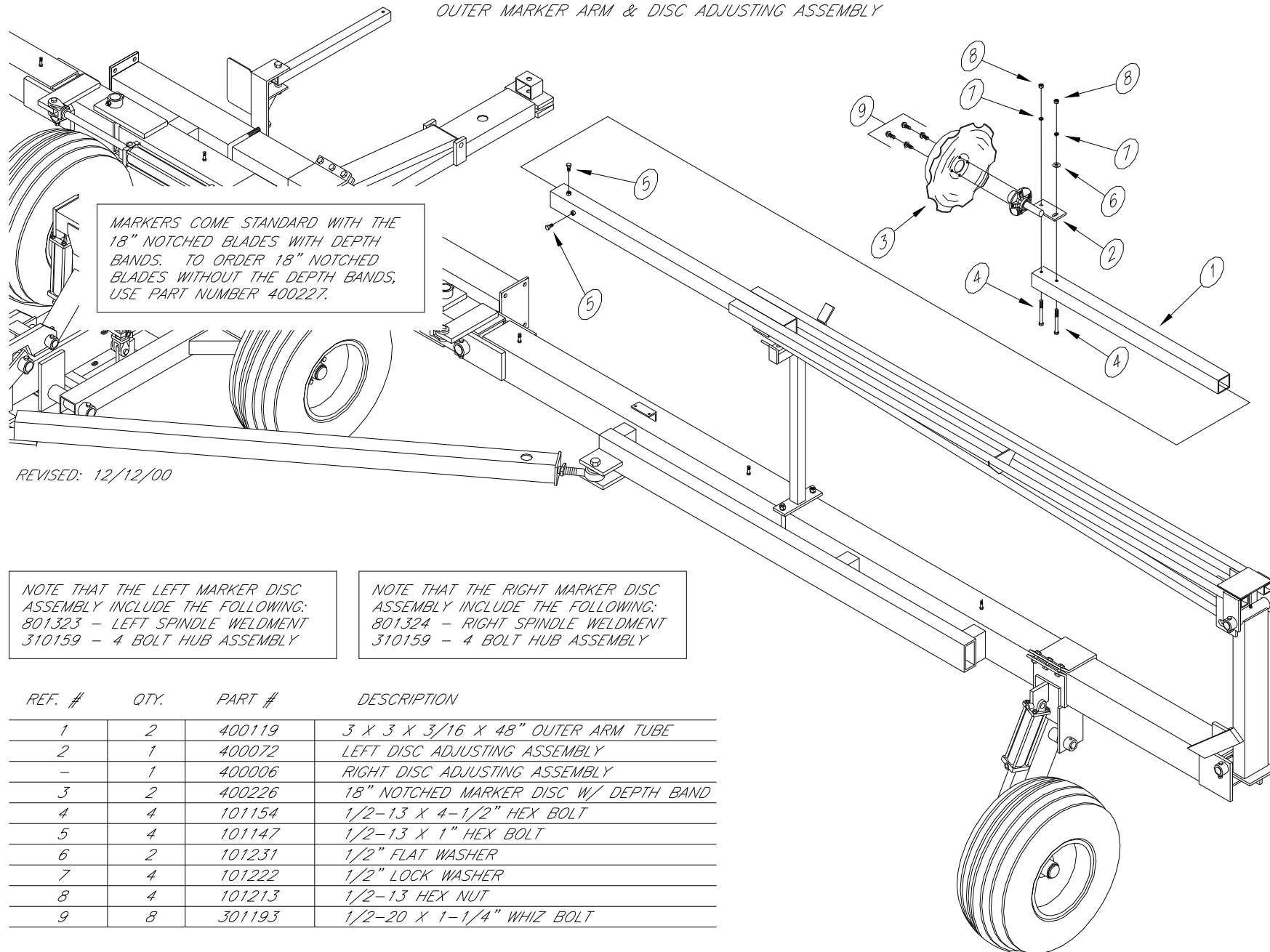


MARKER CYLINDER INSTALLATION

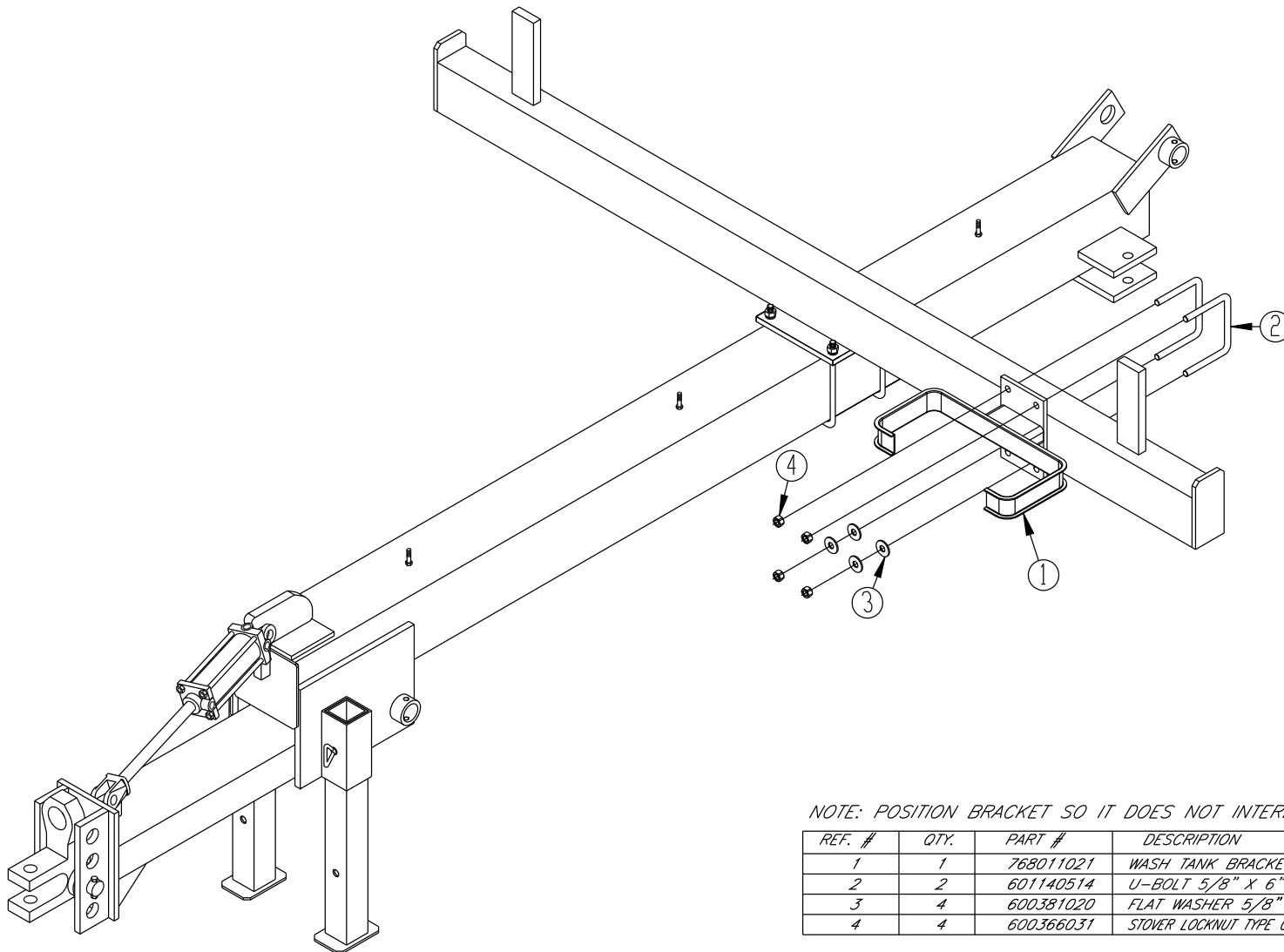


REF. #	QTY.	PART #	DESCRIPTION
1	2	204005	3 X 16 HYDRAULIC CYLINDER
2	2	602193	Ø1.00 X 5" WELDED PIN
3	2	602136	Ø1.00 X 3-5/8" PLATED CYLINDER PIN
4	2	101235	1" FLAT WASHER
5	6	101347	3/16 X 2" COTTER PIN

OUTER MARKER ARM & DISC ADJUSTING ASSEMBLY



ATTACHING THE WASH TANK BRACKET WELDMENT

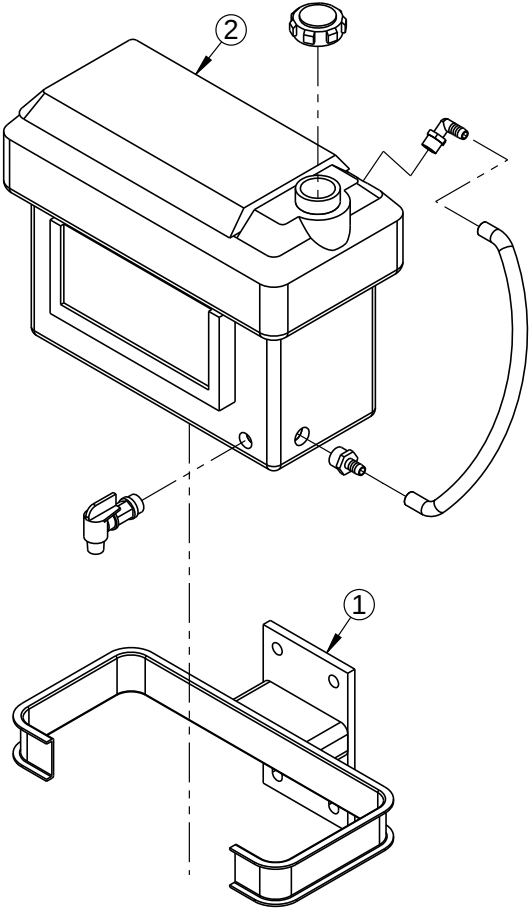


NOTE: POSITION BRACKET SO IT DOES NOT INTERFERE WITH ROW UNITS

REF. #	QTY.	PART #	DESCRIPTION
1	1	768011021	WASH TANK BRACKET WELDMENT
2	2	601140514	U-BOLT 5/8" X 6" X 5-5/8"
3	4	600381020	FLAT WASHER 5/8"
4	4	600366031	STOVER LOCKNUT TYPE C - 5/8" - UNC

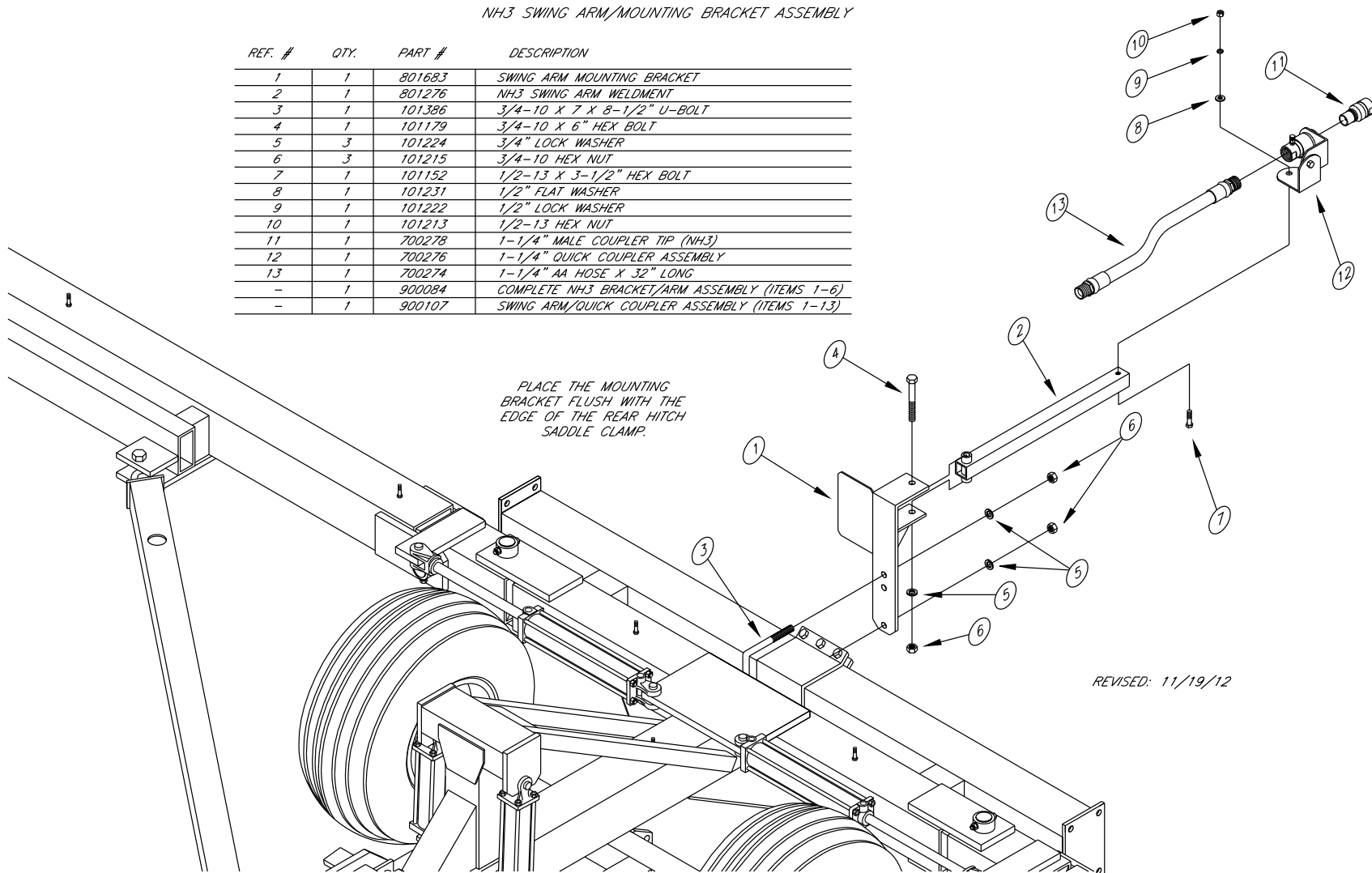
ATTACHING THE WASH TANK

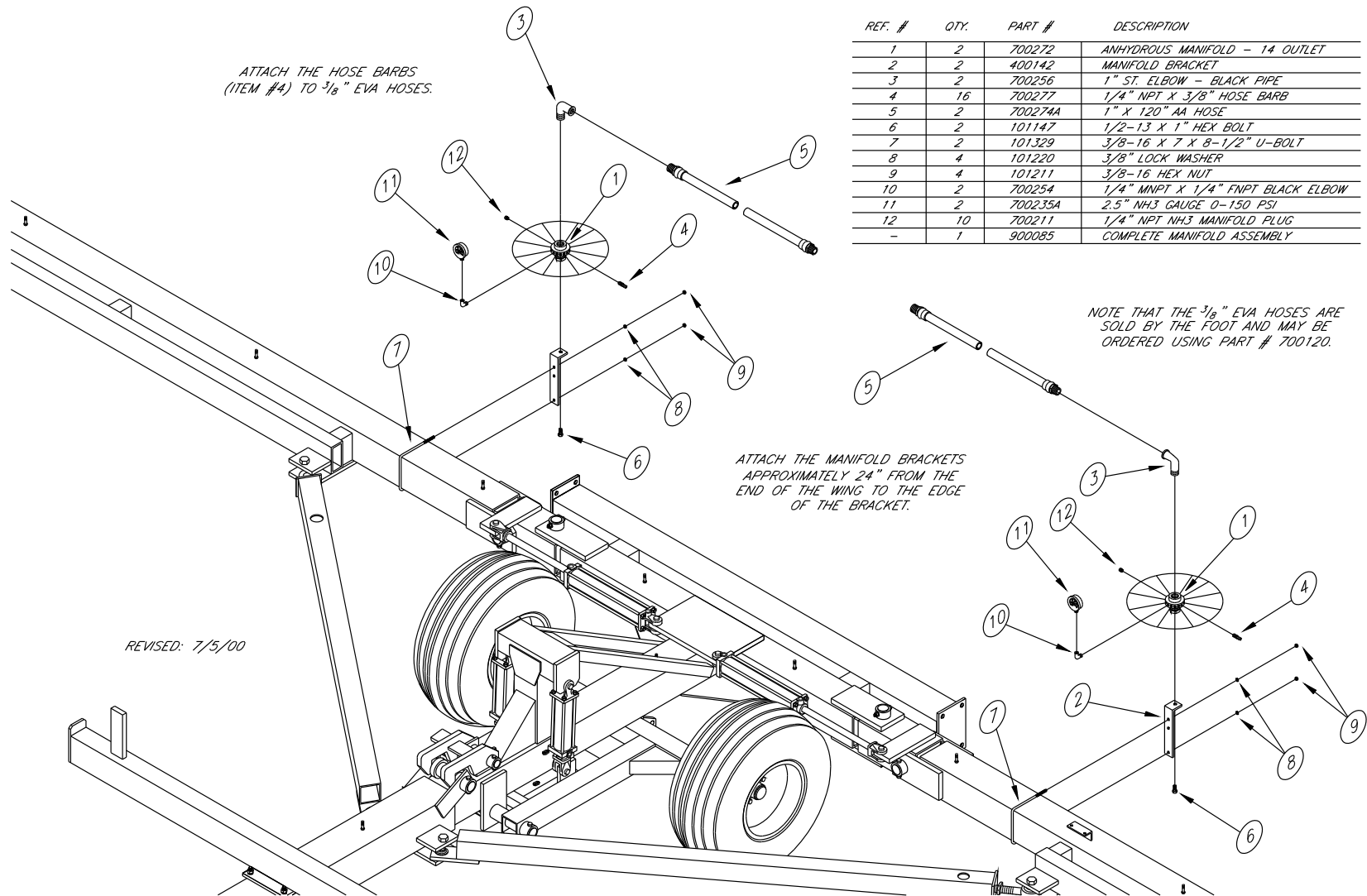
ITEM NO.	PART NUMBER	Description1	QTY.
1	768011021	WASH TANK BRACKET WELDMENT	1
2	767500030	WASH TANK - COMPLETE	1



NH3 SWING ARM/MOUNTING BRACKET ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801683	SWING ARM MOUNTING BRACKET
2	1	801276	NH3 SWING ARM WELDMENT
3	1	101386	3/4-10 X 7 X 8-1/2" U-BOLT
4	1	101179	3/4-10 X 6" HEX BOLT
5	3	101224	3/4" LOCK WASHER
6	3	101215	3/4-10 HEX NUT
7	1	101152	1/2-13 X 3-1/2" HEX BOLT
8	1	101231	1/2" FLAT WASHER
9	1	101222	1/2" LOCK WASHER
10	1	101213	1/2-13 HEX NUT
11	1	700278	1-1/4" MALE COUPLER TIP (NH3)
12	1	700276	1-1/4" QUICK COUPLER ASSEMBLY
13	1	700274	1-1/4" AA HOSE X 32" LONG
-	1	900084	COMPLETE NH3 BRACKET/ARM ASSEMBLY (ITEMS 1-6)
-	1	900107	SWING ARM/QUICK COUPLER ASSEMBLY (ITEMS 1-13)

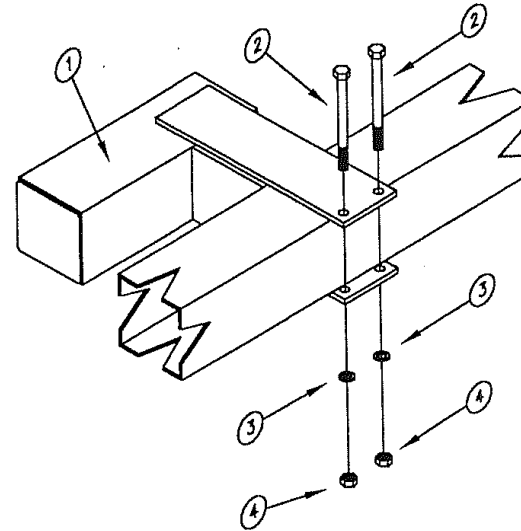
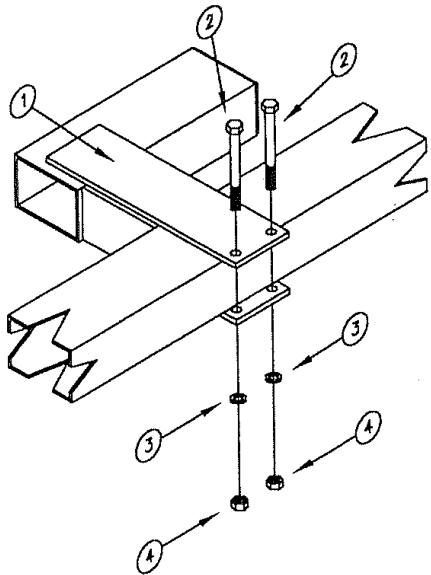




OFFSET BRACKET ASSEMBLY

REF #	QTY	PART #	DESCRIPTION
1	1	801731	OFFSET BRACKET FOR 7 X 5 TUBE
2	2	101438	3/4-10 X 7-1/2" HEX BOLT
3	2	101224	3/4" LOCK WASHER
4	2	101215	3/4-10 HEX NUT

ENTIRE ASSEMBLY (ITEMS 1-4) MAY BE ORDERED USING PART # 900072.



REF #	QTY	PART #	DESCRIPTION
1	1	801730	OFFSET BRACKET FOR 7 X 7 TUBE
2	2	101182	3/4-10 X 9" HEX BOLT
3	2	101224	3/4" LOCK WASHER
4	2	101215	3/4-10 HEX NUT

ENTIRE ASSEMBLY (ITEMS 1-4) MAY BE ORDERED USING PART # 900074.

HEAVY DUTY 4 BOLT HUB & SPINDLE

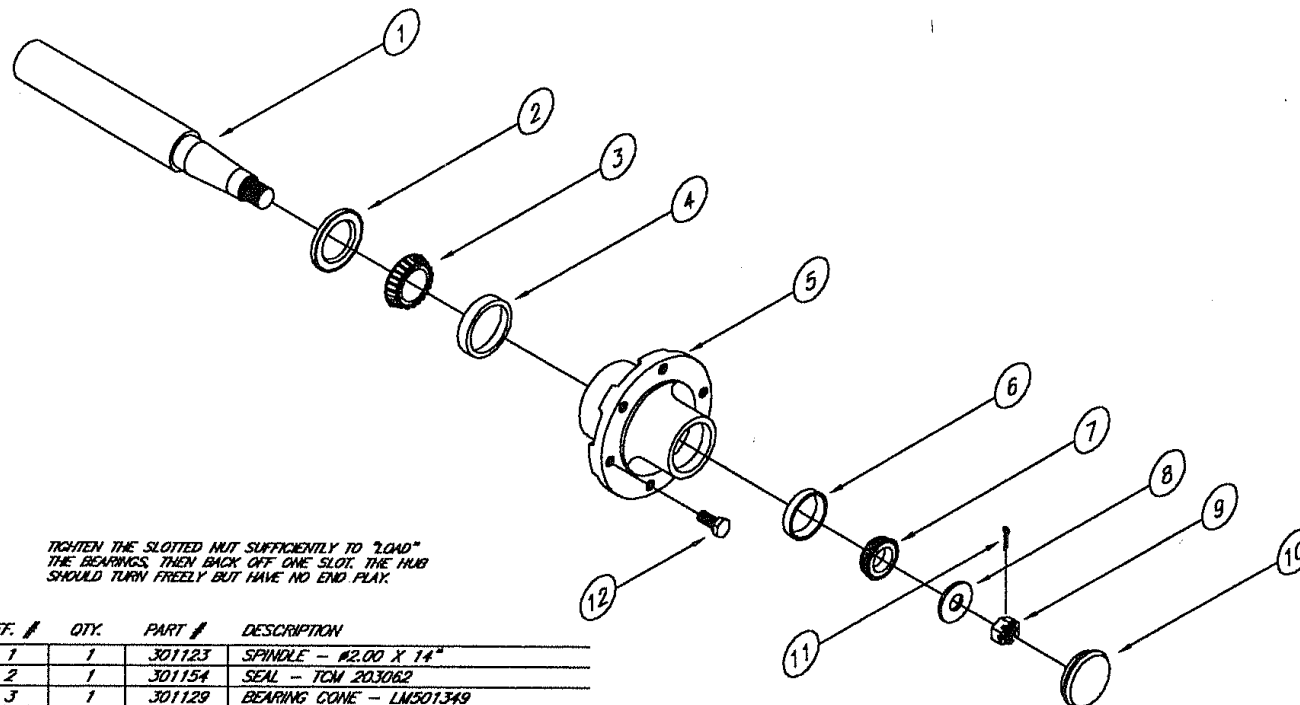
HUB ASSEMBLY COMPLETE INCLUDES:
 SEAL - 301183
 BEARING CONE - 301132
 BEARING CUP - 301134
 HUB - 301182
 BEARING CUP - 301184
 BEARING CONE - 301185
 DUST CAP - 301186
 LUG BOLTS - 301150 (4)

REF. #	QTY.	PART #	DESCRIPTION
1	1	301181	SPINDLE - $\varnothing 1.625" \times 8.0"$
2	1	301183	SEAL - CR 14975
3	1	301132	BEARING CONE - LM 67048
4	1	301134	BEARING CUP - LM 67010
5	1	301182	HUB - 4 BOLT W/ 5" BOLT CIRCLE
6	1	301184	BEARING CUP - LM 11910
7	1	301185	BEARING CONE - LM 11949
8	1	301142	THRUST WASHER - 1.5" O.D. X .8125" I.D.
9	1	301153	CASTELLATED NUT - 3/4-16 UNF
10	1	301152	COTTER PIN - 5/32" X 1-3/4"
11	1	301186	DUST CAP
12	4	301150	LUG BOLT - 1/2-20 UNF X 1"
13	1	301188	SPINDLE ASSEMBLY - COMPLETE
14	1	301187	HUB ASSEMBLY - COMPLETE

SPINDLE ASSEMBLY COMPLETE INCLUDES:
 SPINDLE - 301181
 WASHER - 301142
 CASTELLATED NUT - 301153
 COTTER PIN - 301152

REVISED 09/08/93

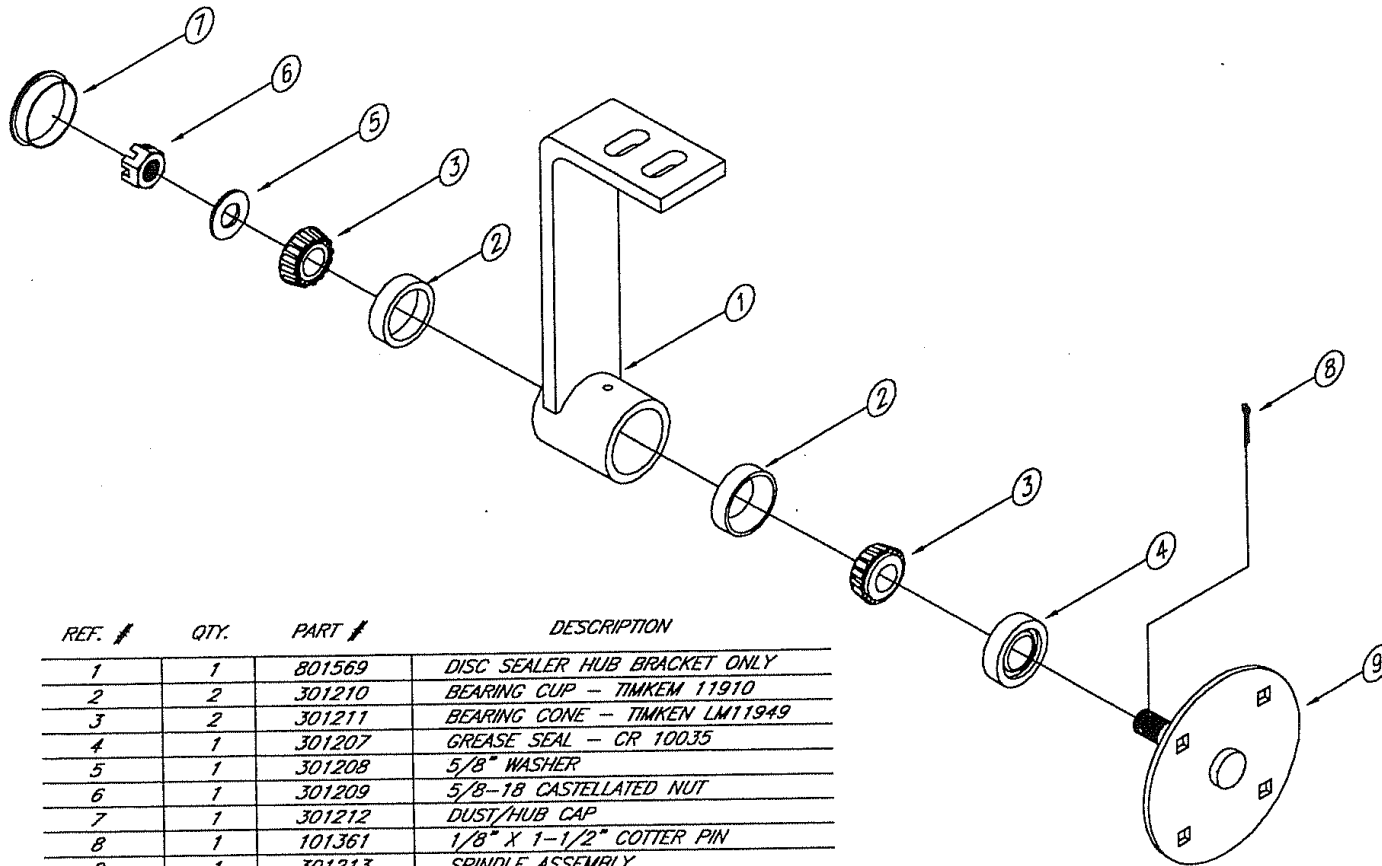
6 BOLT HUB & SPINDLE



TIGHTEN THE SLOTTED NUT SUFFICIENTLY TO "LOAD" THE BEARINGS. THEN BACK OFF ONE SLOT. THE HUB SHOULD TURN FREELY BUT HAVE NO END PLAY.

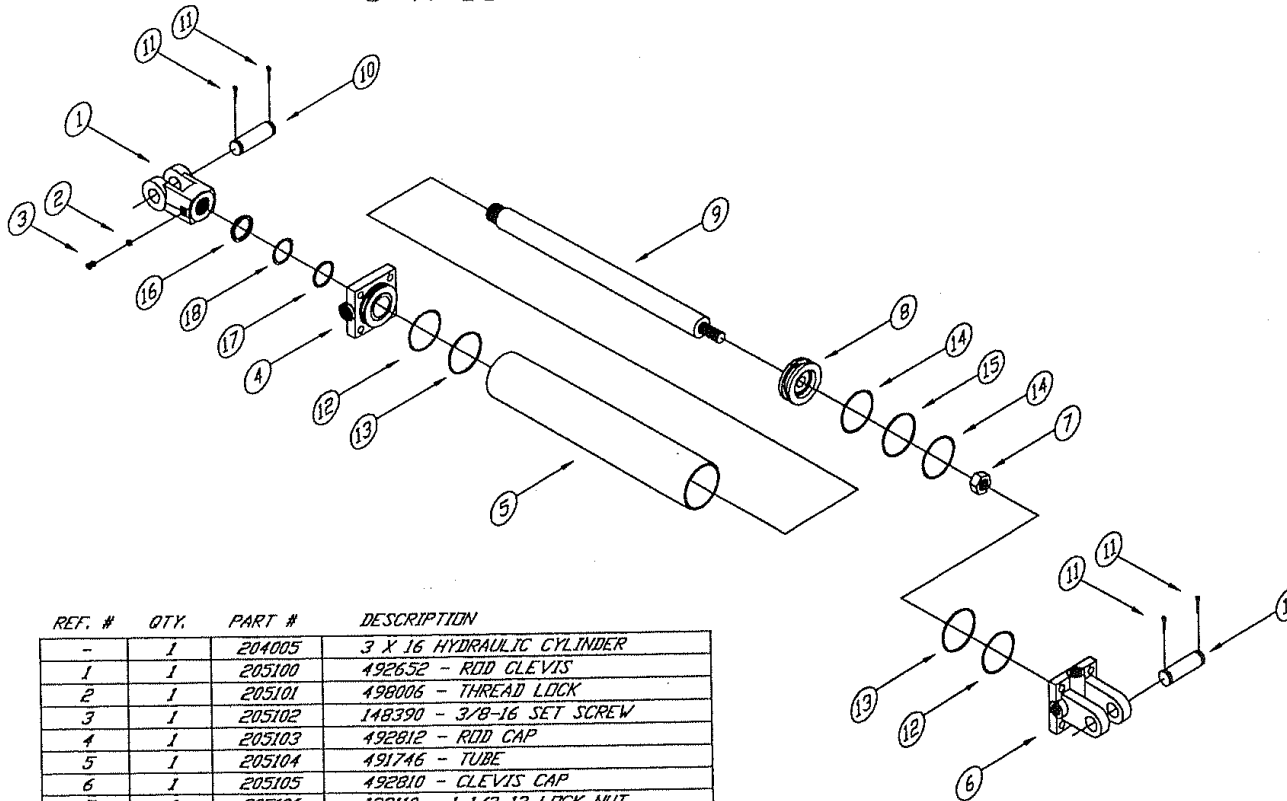
REF. #	QTY.	PART #	DESCRIPTION
1	1	301123	SPINDLE - #2.00 X 14"
2	1	301154	SEAL - TCM 203062
3	1	301129	BEARING CONE - LM501349
4	1	301135	BEARING CUP - LM501310
5	1	301126	6 BOLT HUB - 6" BOLT CIRCLE
6	1	301134	BEARING CUP - LM67010
7	1	301132	BEARING CONE - LM67048
8	1	301157	WASHER - 2" O.D. X 13/16" I.D.
9	1	301153	SLOTTED NUT - 3/4-16 UNF
10	1	301143	DUST CAP
11	1	101249	COTTER PIN - 5/32 X 1-3/4"
12	6	301151	LUG BOLT - 9/16-18 UNF X 1-1/8"
-	1	301164	SPINDLE ASSEMBLY - COMPLETE
-	1	301160	HUB ASSEMBLY - COMPLETE

DISC SEALER HUB ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801569	DISC SEALER HUB BRACKET ONLY
2	2	301210	BEARING CUP - TIMKEN 11910
3	2	301211	BEARING CONE - TIMKEN LM11949
4	1	301207	GREASE SEAL - CR 10035
5	1	301208	5/8" WASHER
6	1	301209	5/8-18 CASTELLATED NUT
7	1	301212	DUST/HUB CAP
8	1	101361	1/8" X 1-1/2" COTTER PIN
9	1	301213	SPINDLE ASSEMBLY

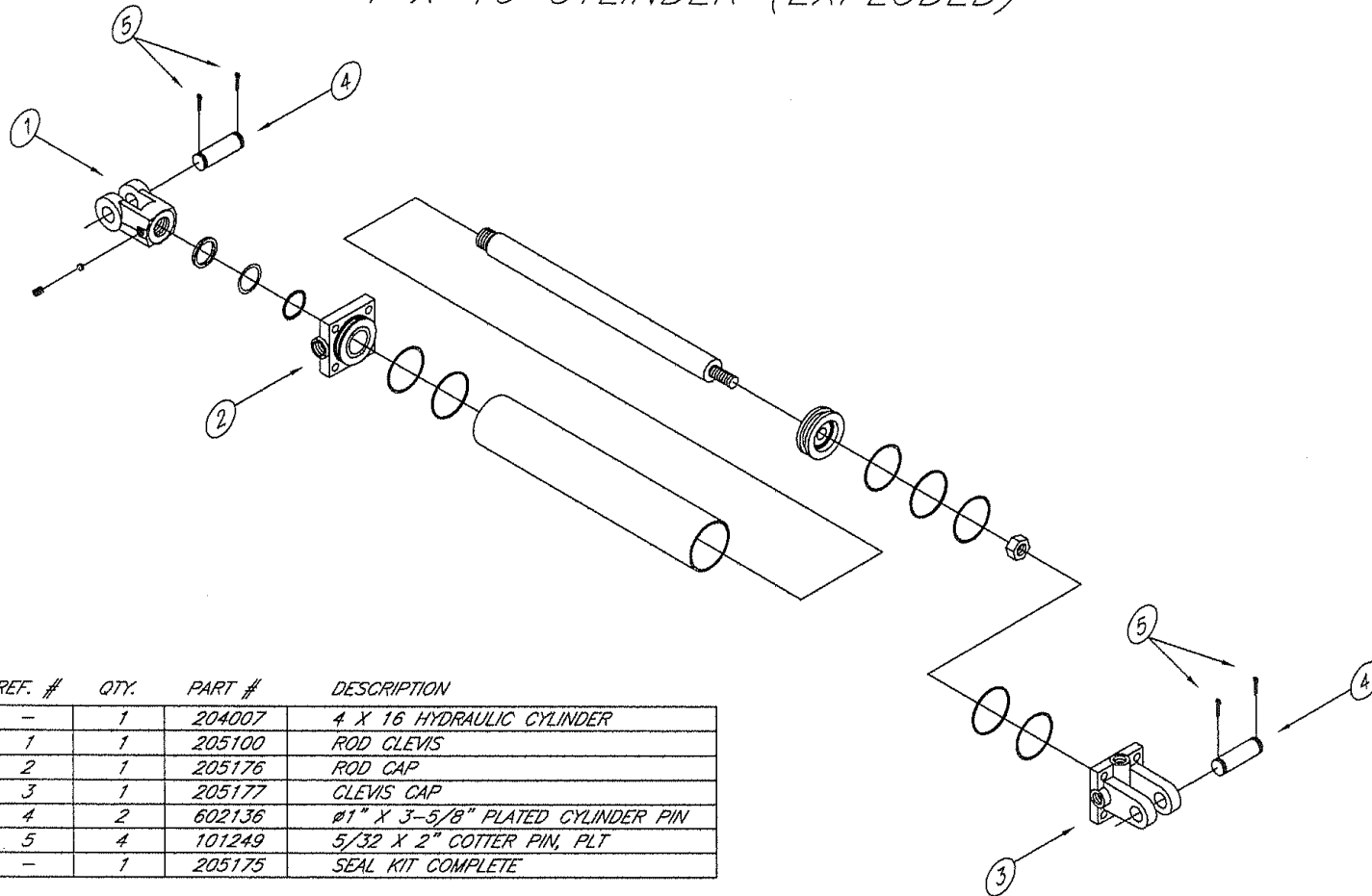
LION 2500 TL SERIES 3 X 16 CYLINDER (EXPLODED)



REF. #	QTY.	PART #	DESCRIPTION
-	1	204005	3 X 16 HYDRAULIC CYLINDER
1	1	205100	492652 - ROD CLEVIS
2	1	205101	498006 - THREAD LOCK
3	1	205102	148390 - 3/8-16 SET SCREW
4	1	205103	492812 - ROD CAP
5	1	205104	491746 - TUBE
6	1	205105	492810 - CLEVIS CAP
7	1	205106	129110 - 1-1/2-12 LOCK NUT
8	1	205107	492520 - PISTON
9	1	205108	492873 - ROD
10	2	602136	#1" X 3-5/8" PLATED CYLINDER PIN
11	4	101266	#3/16" HAIRPIN
12	2	205017	#40 O-RING B.U.
13	2	205018	#10 O-RING
14	2	205019	#14 O-RING B.U.

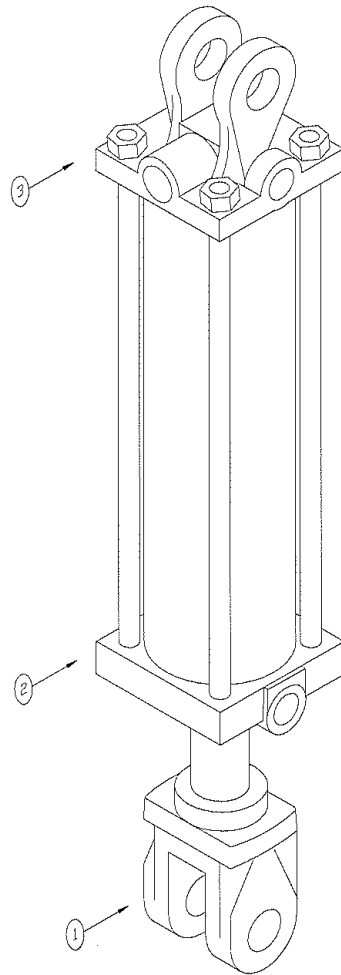
REF. #	QTY.	PART #	DESCRIPTION
15	1	205020	#12 O-RING
16	1	205021	#13 WIPER
17	1	205022	#11 ROD O-RING
18	1	205023	#24 ROD B.U.
-	1	205016	SEAL KIT COMPLETE

LION 2500 SERIES 4 X 16 CYLINDER (EXPLODED)



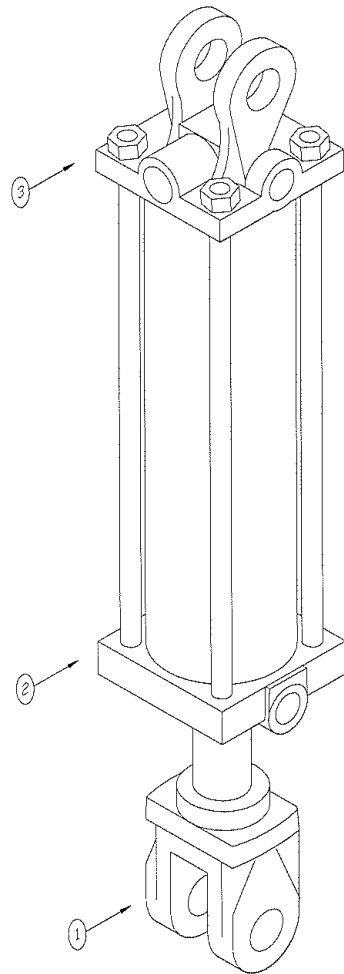
REF. #	QTY.	PART #	DESCRIPTION
-	1	204007	4 X 16 HYDRAULIC CYLINDER
1	1	205100	ROD CLEVIS
2	1	205176	ROD CAP
3	1	205177	CLEVIS CAP
4	2	602136	Ø1" X 3-5/8" PLATED CYLINDER PIN
5	4	101249	5/32 X 2" COTTER PIN, PLT
-	1	205175	SEAL KIT COMPLETE

3-1/4 X 10" REPHASE CYLINDER



ITEM	QTY	PART#	DESCRIPTION
1	1	205181	ROD CLEVIS
2	1	205182	ROD CAP
3	1	205183	CLEVIS CAP
-	1	204015	3-1/4 X 10" REPHASE CYLINDER
-	1	205178	SEAL KIT

3-1/2 X 10" REPHASE CYLINDER



ITEM	QTY	PART#	DESCRIPTION
1	1	205184	ROD CLEVIS
2	1	205185	ROD CAP
3	1	205186	CLEVIS CAP
-	1	204016	3-1/2X 10" REPHASE CYLINDER
-	1	205179	SEAL KIT

PROGRESSIVE FARM PRODUCTS

19500 N. 1425 East Road • Hudson, IL 61748-9450 • (309) 454-1564 • FAX (309) 452-1610



WARRANTY

Main Frame, Wings, Wheel Supports Three (3) Years
All Other Components, except tiresOne (1) Year

Progressive Farm Products Inc. (PFP, Inc.) warrants each new PFP, Inc. product to be free from defects in material and workmanship. This warranty is in effect from the date of delivery to the original purchaser and is applicable only for the normal life expectancy of the machine or components, not to exceed the time periods listed above. Tires on PFP, Inc. equipment are warranted through the respective tire manufacturer. Contact a dealer of the manufacturer in your local area.

Under no circumstances will it cover any merchandise or components thereof which, in the opinion of the company, has been subjected to negligent handling, misuse, alternation, an accident, or if repairs have been made with parts other than those obtainable through PFP, Inc.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser any part that in our judgement shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to PFP, Inc. through a dealer from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind of nature, direct, consequential, or contingent to person or property. This warranty does not extend to loss of crops, loss because of delay or any expense of loss incurred for labor, supplies, substitute machinery, rental, or for any other reason.

There are no warranties, either expressed or implied, of merchantability of fitness for particular purpose intended or fitness for any other reason.

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

PFP, Inc. reserves the right to make improvements in design or changes in specifications at any time without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify, or enlarge this warranty nor the exclusions, limitations, and reservations.

**Progressive Farm Products Warranty does not include
cost of travel time, mileage, hauling, or labor.**