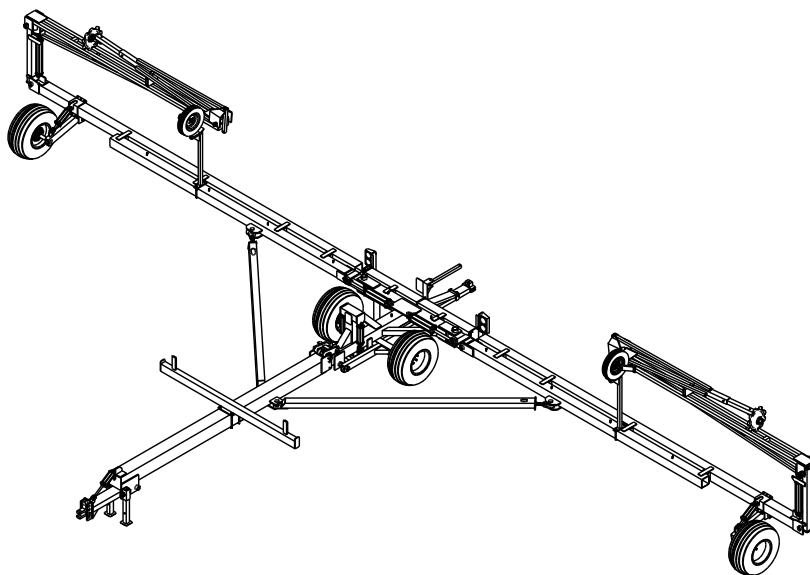




*PROGRESSIVE
FARM PRODUCTS, INC.*

OPERATOR'S MANUAL
60' 7200
FRONT-FOLD TOOLBAR



COME VISIT US ON THE WEB AT: www.progressivefarm.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.

7200-60ft Operating Procedures

As you familiarize yourself with the 7200 NH3 applicator please take the time to read through this section completely.

All 7200 applicators (hyd. hose hookup)

The main toolbar lift hoses are plugged into the number 1-SCV valve.

The wing fold/marker seq. hoses or 3-way elect./hyd. valve into number 2-SCV valve.

The hyd. transport hitch is plugged into the number 3-SCV valve

If you do not have 3-SCV valves or you have a hyd. NH3 shutoff valve you will need a 3 way elect./hyd. multiplier valve to accommodate all the hyd. functions

If your 7200 has a 3 way elect./hyd. valve it will be wired as follows.

The first switch on the cab console will control the hyd. transport hitch.

The second switch will control the fold/seq. valve.

The third switch is left open for a hyd NH3 shutoff valve or other hyd. requirement.

Danger:

Under no circumstances should you ever plumb a hydraulic NH3 shutoff valve into the lift system of an anhydrous toolbar. This holds especially true for the 7200 because of the way it folds into transport, when the wing wheels are pulled up in the folded position it would activate the NH3 valve allowing anhydrous to flow out of the system.

Folding the 60ft-7200 for transport

- 1: Using the main lift lever, lift the 7200 to a completely raised position.
- 2: Place the yellow handle on the fold/seq. selector valve to the vertical position.
- 3: Lower the hyd. transport hitch until cyld. is completely collapsed
- 4: Position tractor straight with 7200 and leave transmission in neutral.
(It is better if tractor is allowed to move during folding and unfolding)
- 5: Fold the wings of the 7200 until they are over the wing cradles.
- 6: Lift the hyd. transport hitch to a fully raised position.
- 7: Reverse the main lift lever and pull up the wing wheels.
- 8: Place the transport lock in the hyd. transport hitch cyld.

The 7200 is now ready for road transport.

To put the 7200 into operating position, simply reverse steps 1 through 7 above.

Daily Startup procedures for the 7200 NH3 applicator.

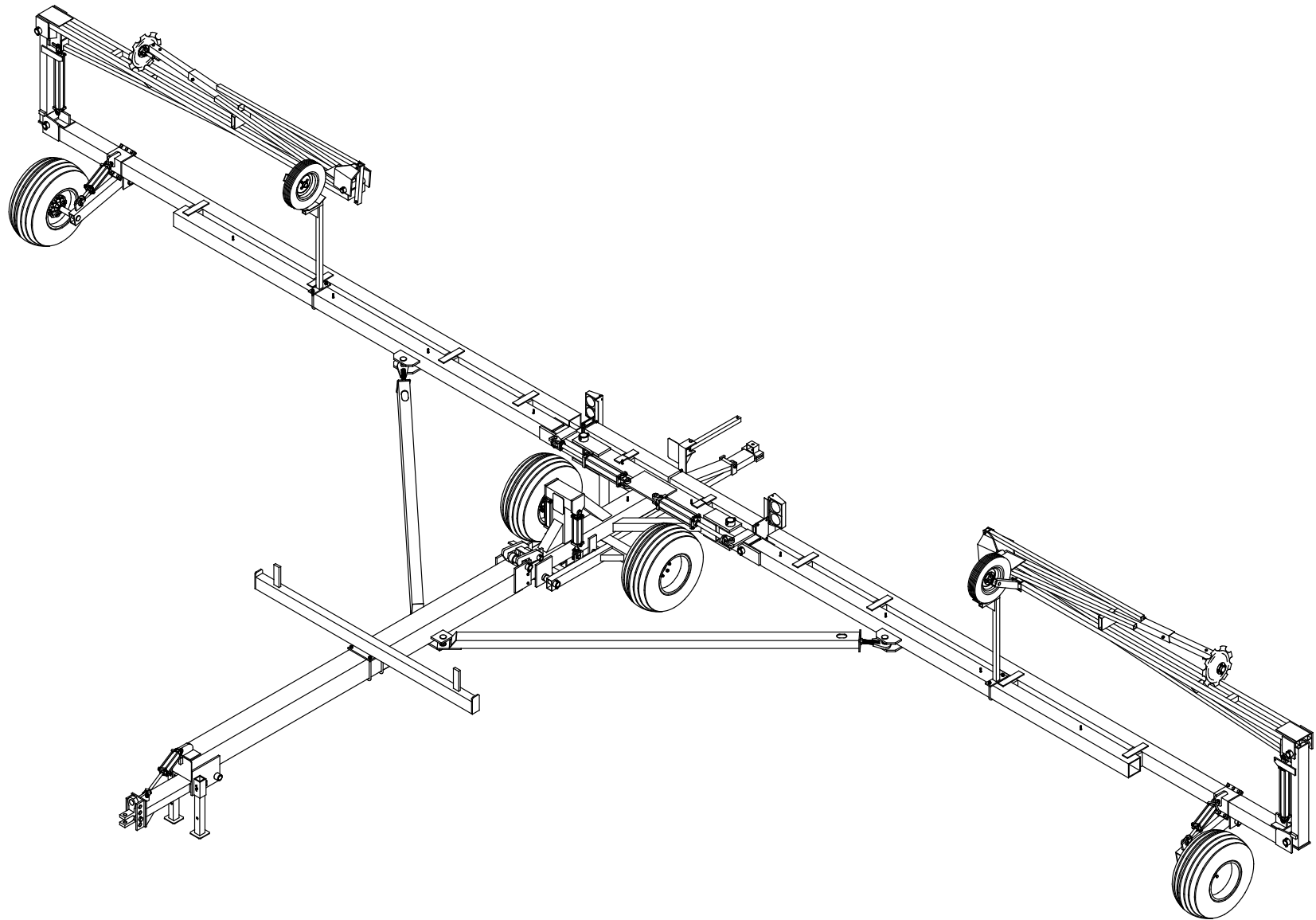
#1 Greasing the 7200 toolbar is the single most important thing you can do to guarantee years of trouble free operation. Dust works its way into the pivot points and hinge pins and will seize them up . The only way to keep this from happening is to keep these areas well greased, the grease will keep the dust forced out and eliminate many future problems.

#2 Make sure all the hyd. hoses are secured to eliminate the possibility of damage during operation and turning. *Maintain 32lbs of air pressure in the 16.5l x16.1 tires.*

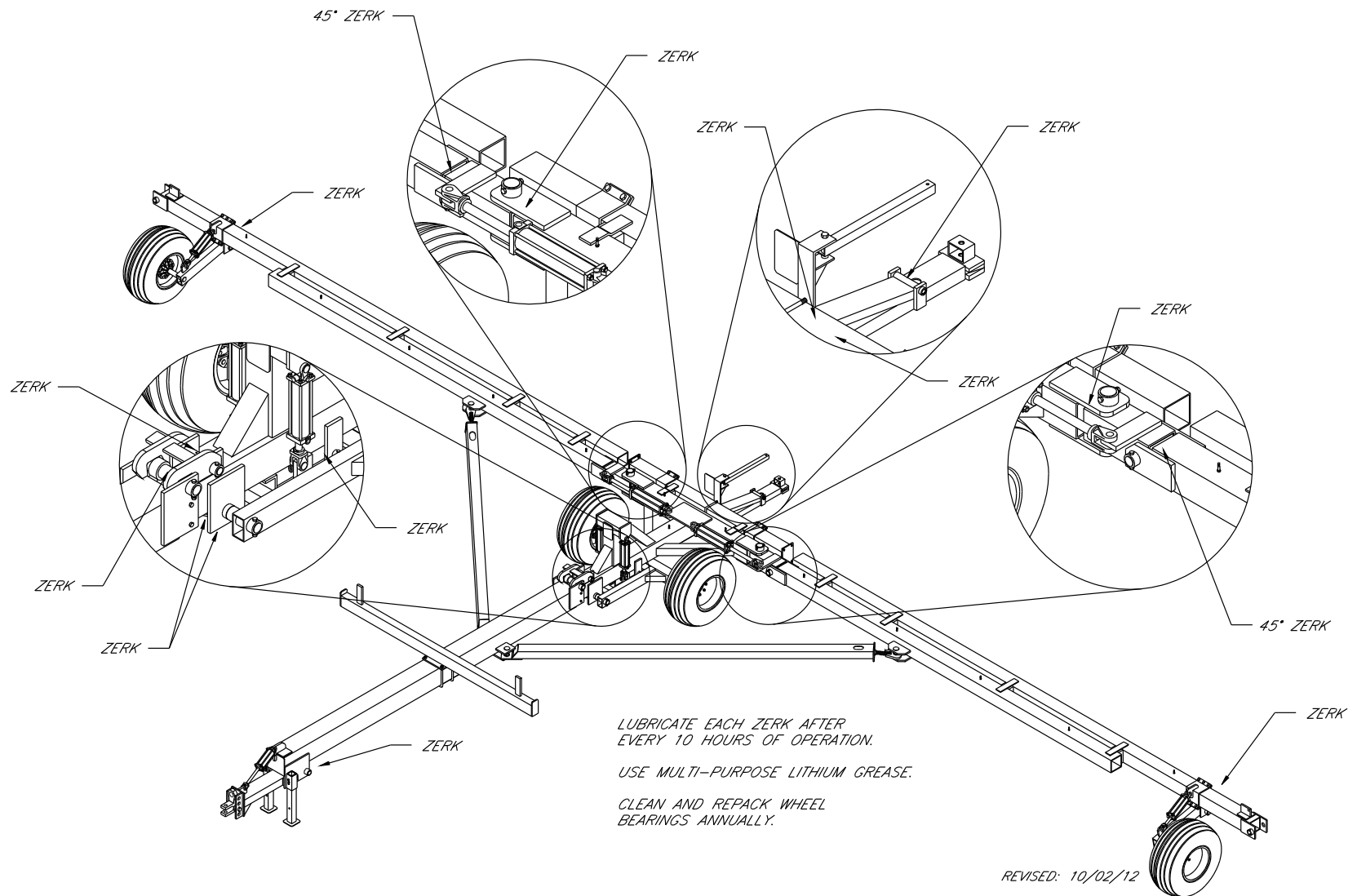
#3 The 7200 toolbar was designed to run at a optimum depth between 5 and 8 inches, there are 4 stroke control kits provided with this unit to control depth on the four main lift cylinders. Please note that although this machine will operate much deeper than 8 inches, it was never intended to be a deep tillage unit.

#4 The hyd. transport hitch needs to be in the lowered position when in operation, this will keep the hitch clevis in a straight position and reduce the clevis wear. This will also make the toolbar run slightly nose down. It is ok to use the hyd. hitch to fine tune the knife depth, but should never be more than 1/3 extended while in field operation.

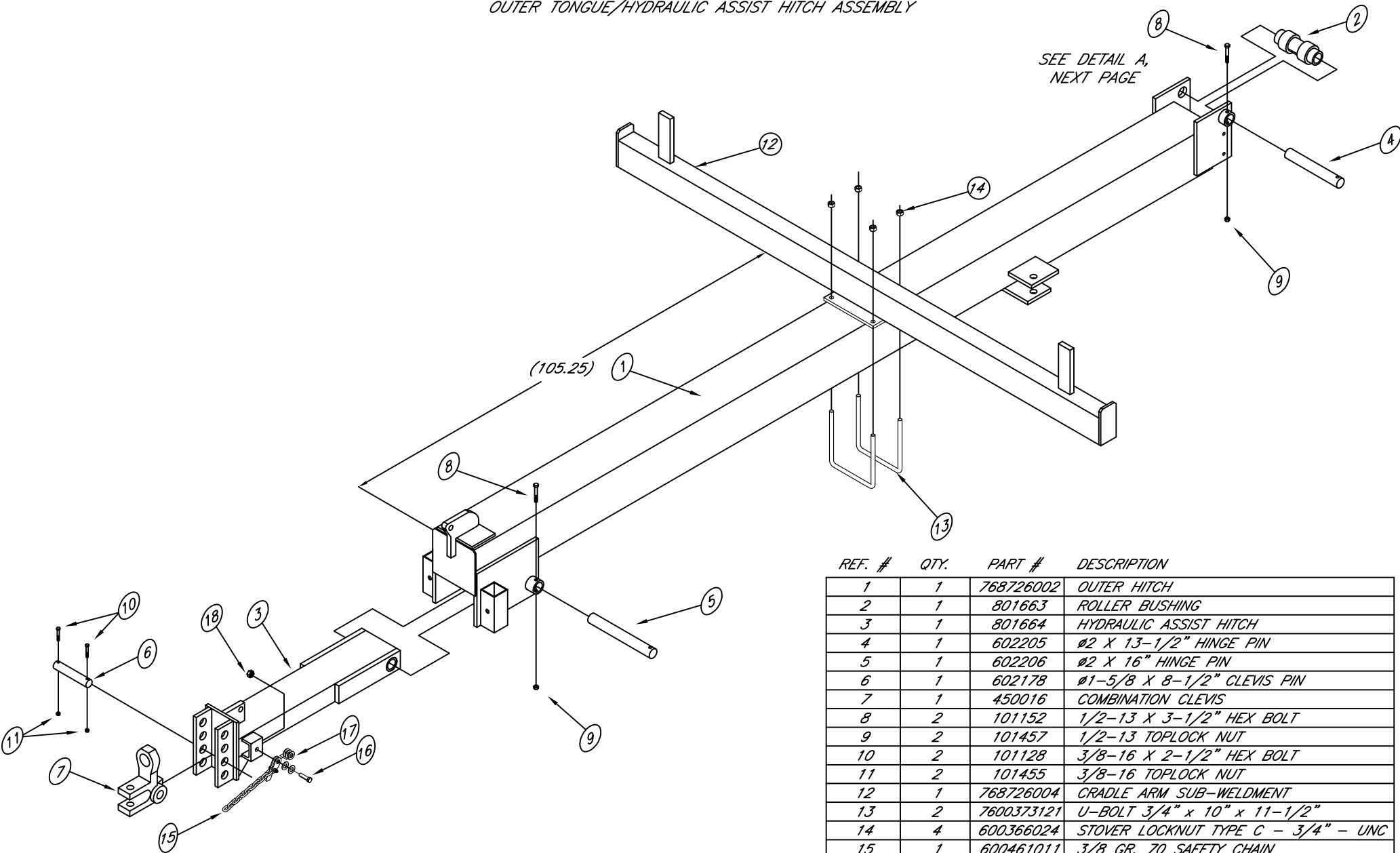
#5 Set the hyd. flow rate on your SCV. outlets to run the lift, fold and marker sequencing at a smooth rate. Excessive speed can cause damage especially to the row markers.



LUBRICATION & MAINTENANCE

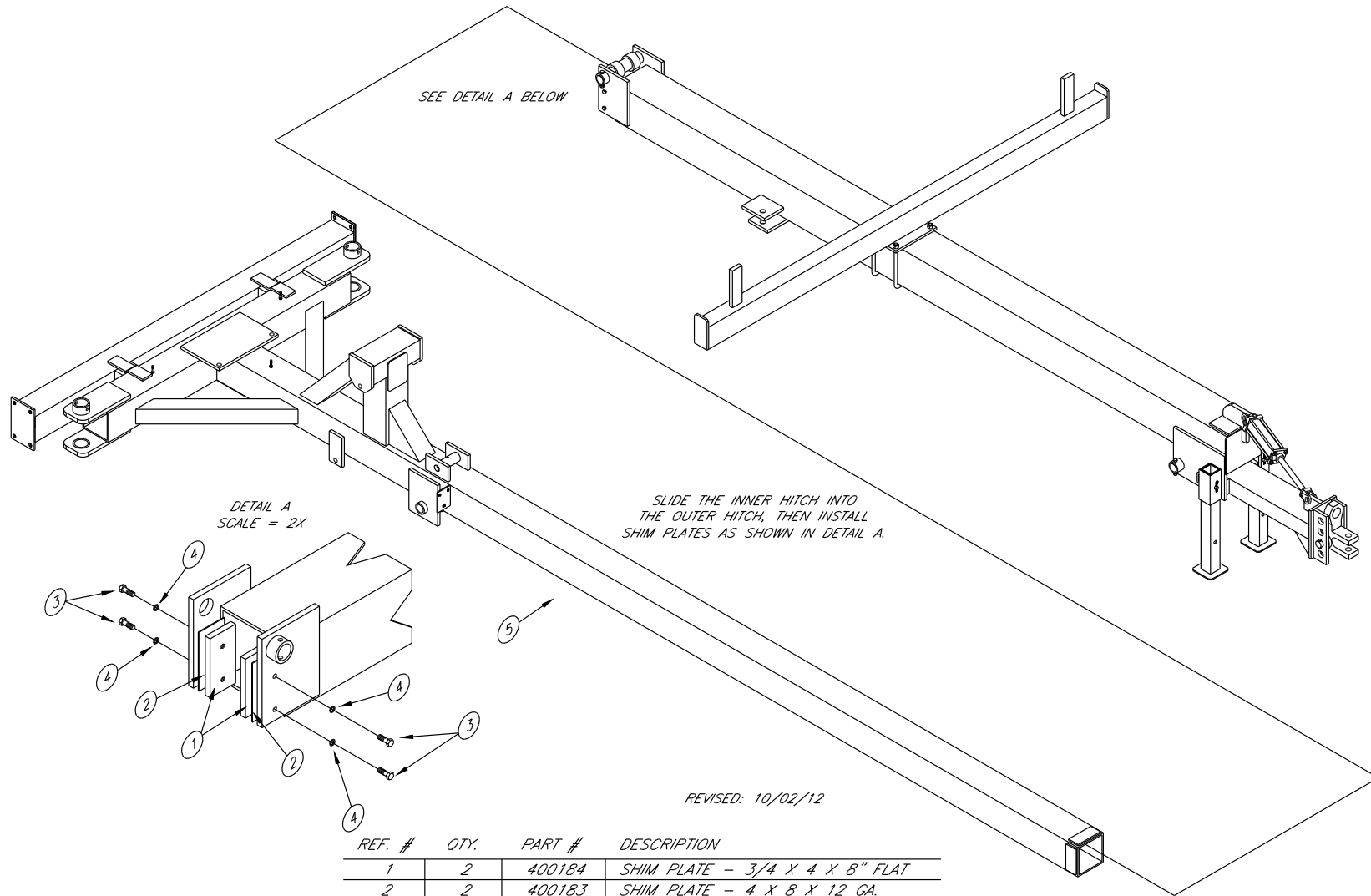


OUTER TONGUE/HYDRAULIC ASSIST HITCH ASSEMBLY



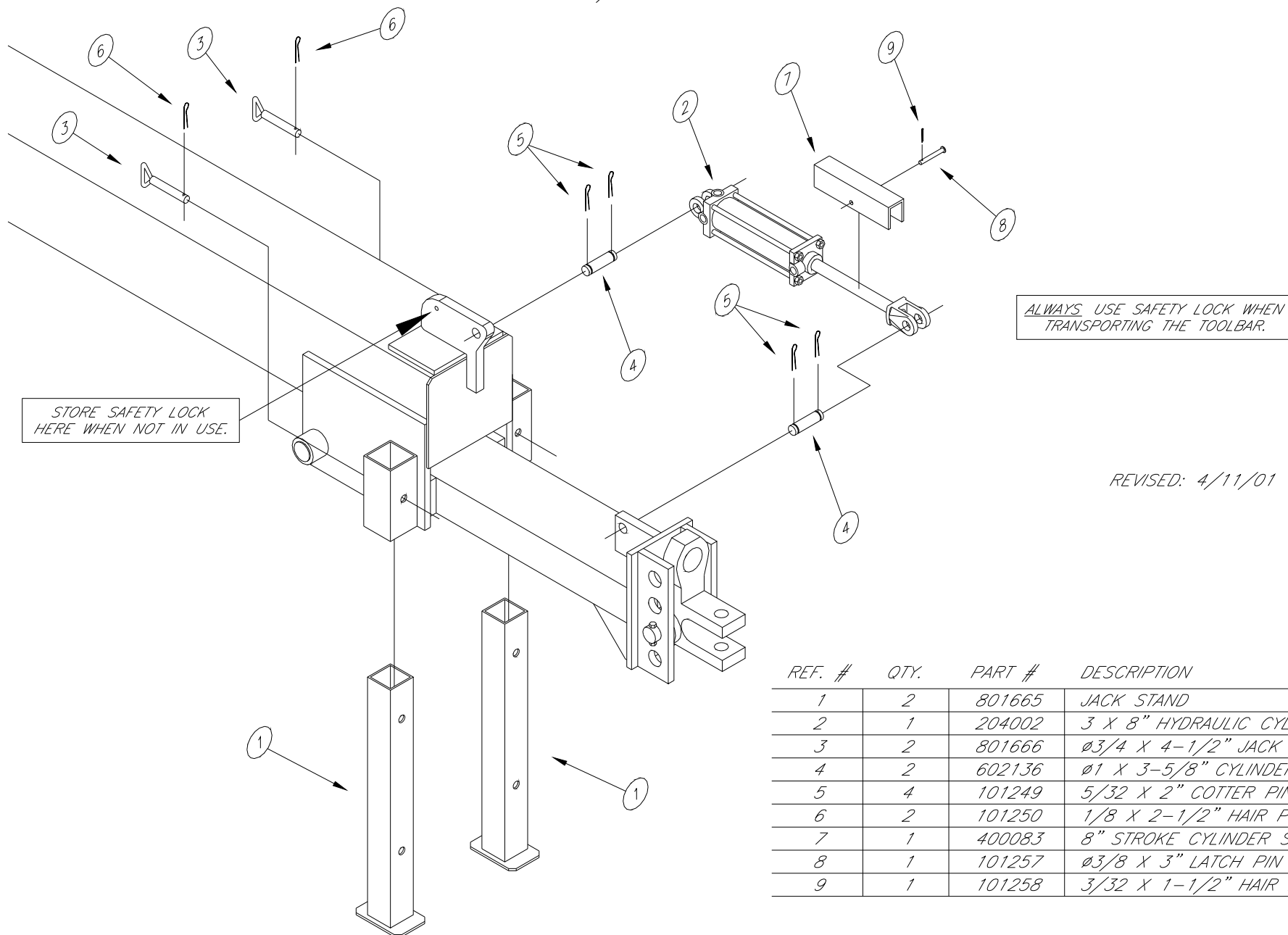
REF. #	QTY.	PART #	DESCRIPTION
1	1	768726002	OUTER HITCH
2	1	801663	ROLLER BUSHING
3	1	801664	HYDRAULIC ASSIST HITCH
4	1	602205	Ø2 X 13-1/2" HINGE PIN
5	1	602206	Ø2 X 16" HINGE PIN
6	1	602178	Ø1-5/8 X 8-1/2" CLEVIS PIN
7	1	450016	COMBINATION CLEVIS
8	2	101152	1/2-13 X 3-1/2" HEX BOLT
9	2	101457	1/2-13 TOPLOCK NUT
10	2	101128	3/8-16 X 2-1/2" HEX BOLT
11	2	101455	3/8-16 TOPLOCK NUT
12	1	768726004	CRADLE ARM SUB-WELDMENT
13	2	7600373121	U-BOLT 3/4" X 10" X 11-1/2"
14	4	600366024	STOVER LOCKNUT TYPE C - 3/4" - UNC
15	1	600461011	3/8 GR. 70 SAFETY CHAIN
16	1	600356002	BOLT 1" X 3" GR. 5
17	5	600381018	FLAT WASHER 1"
18	1	600366032	LOCK NUT 1"

INNER & OUTER HITCH ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	2	400184	SHIM PLATE - 3/4 X 4 X 8" FLAT
2	2	400183	SHIM PLATE - 4 X 8 X 12 GA.
3	4	101148	1/2-13 X 1-1/2" HEX BOLT
4	4	101222	1/2" LOCK WASHER
5	1	801736	INNER HITCH

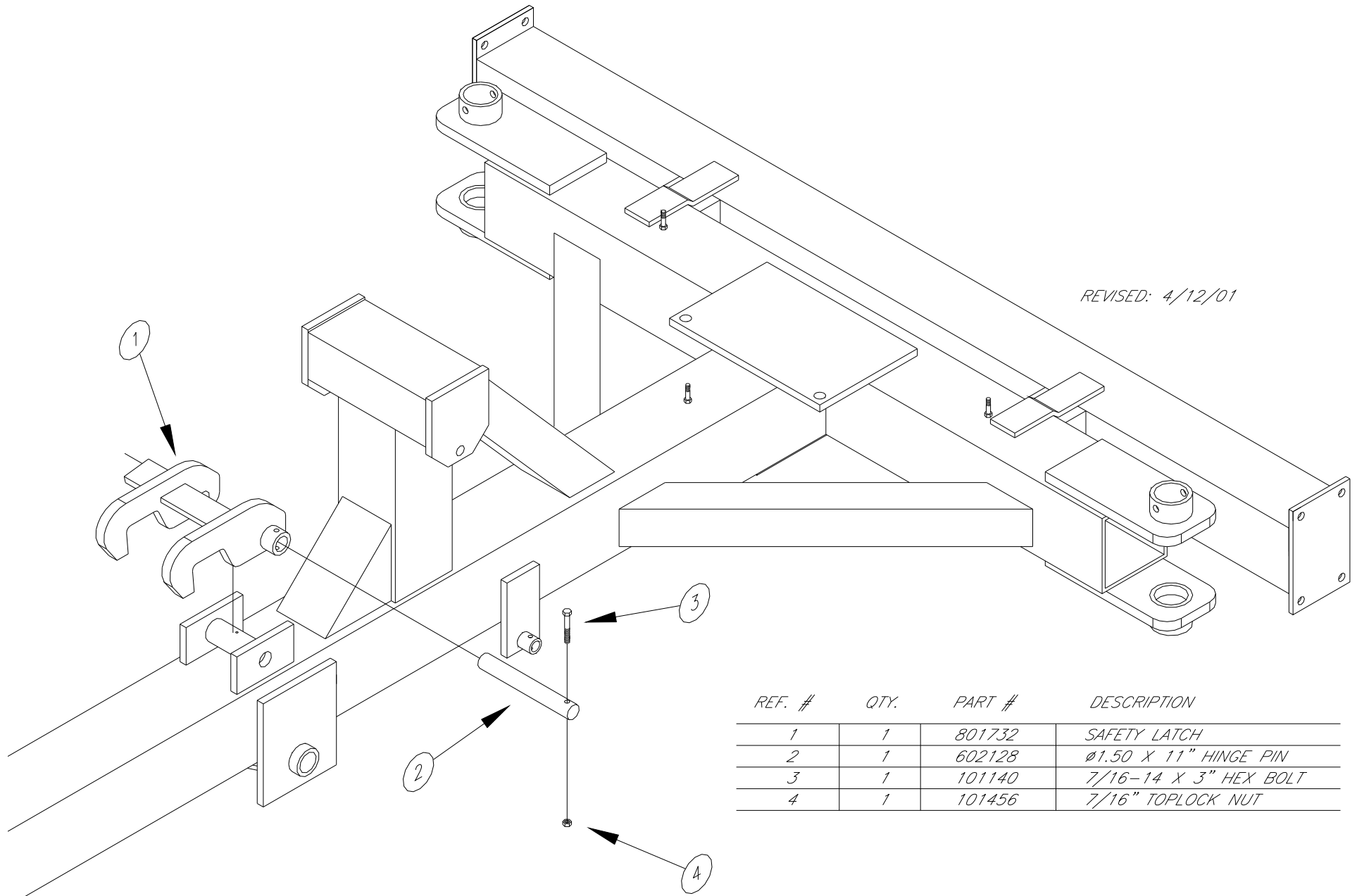
OUTER TONGUE/HYDRAULIC ASSIST HITCH ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	2	801665	JACK STAND
2	1	204002	3 X 8" HYDRAULIC CYLINDER
3	2	801666	Ø3/4 X 4-1/2" JACK PIN
4	2	602136	Ø1 X 3-5/8" CYLINDER PIN
5	4	101249	5/32 X 2" COTTER PIN
6	2	101250	1/8 X 2-1/2" HAIR PIN
7	1	400083	8" STROKE CYLINDER SAFETY LOCK
8	1	101257	Ø3/8 X 3" LATCH PIN
9	1	101258	3/32 X 1-1/2" HAIR PIN

SAFETY LATCH ASSEMBLY

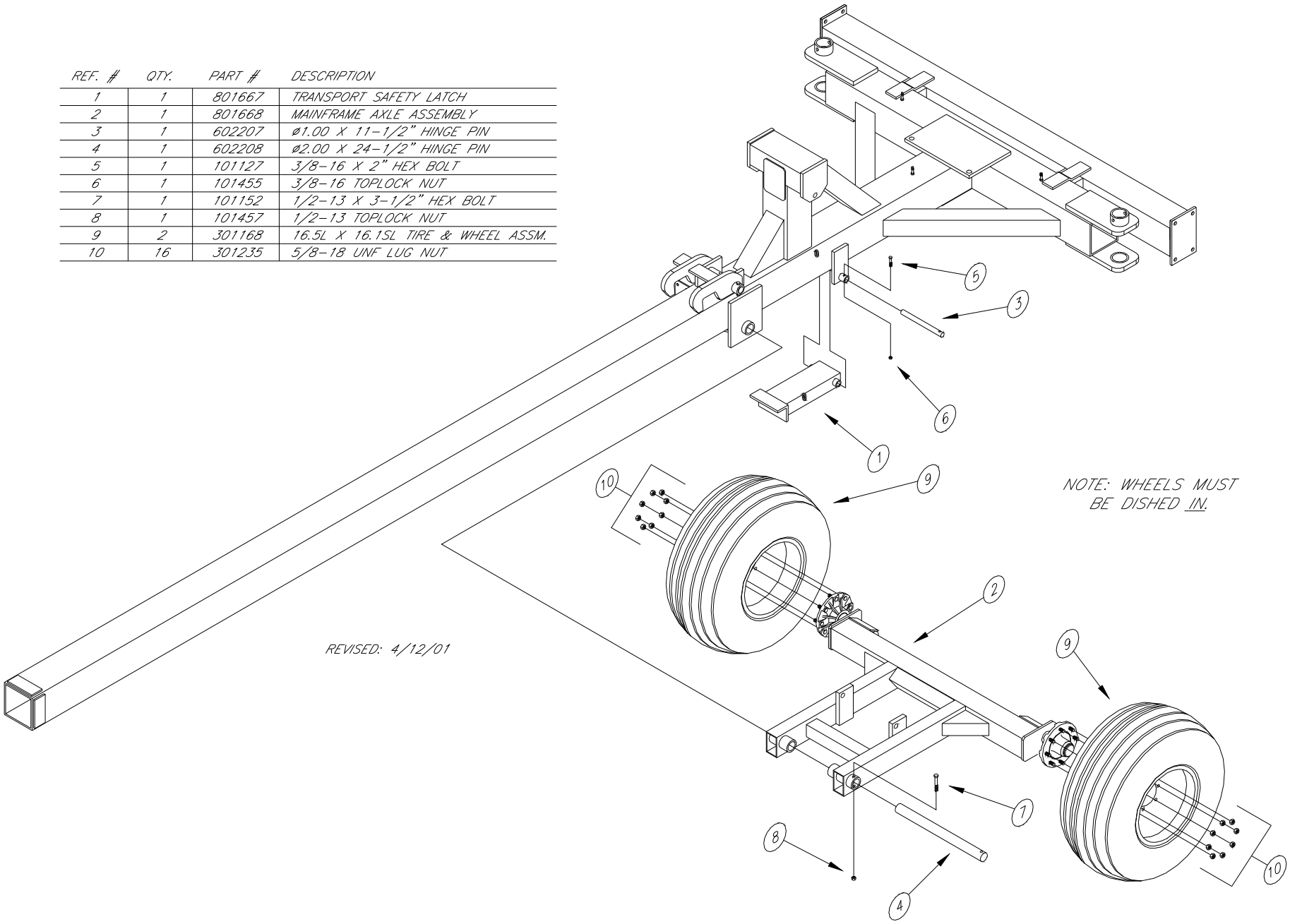
REVISED: 4/12/01



REF. #	QTY.	PART #	DESCRIPTION
1	1	801732	SAFETY LATCH
2	1	602128	Ø1.50 X 11" HINGE PIN
3	1	101140	7/16-14 X 3" HEX BOLT
4	1	101456	7/16" TOPLOCK NUT

HITCH AND AXLE ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801667	TRANSPORT SAFETY LATCH
2	1	801668	MAINFRAME AXLE ASSEMBLY
3	1	602207	Ø1.00 X 11-1/2" HINGE PIN
4	1	602208	Ø2.00 X 24-1/2" HINGE PIN
5	1	101127	3/8-16 X 2" HEX BOLT
6	1	101455	3/8-16 TOPLOCK NUT
7	1	101152	1/2-13 X 3-1/2" HEX BOLT
8	1	101457	1/2-13 TOPLOCK NUT
9	2	301168	16.5L X 16.1SL TIRE & WHEEL ASSM.
10	16	301235	5/8-18 UNF LUG NUT

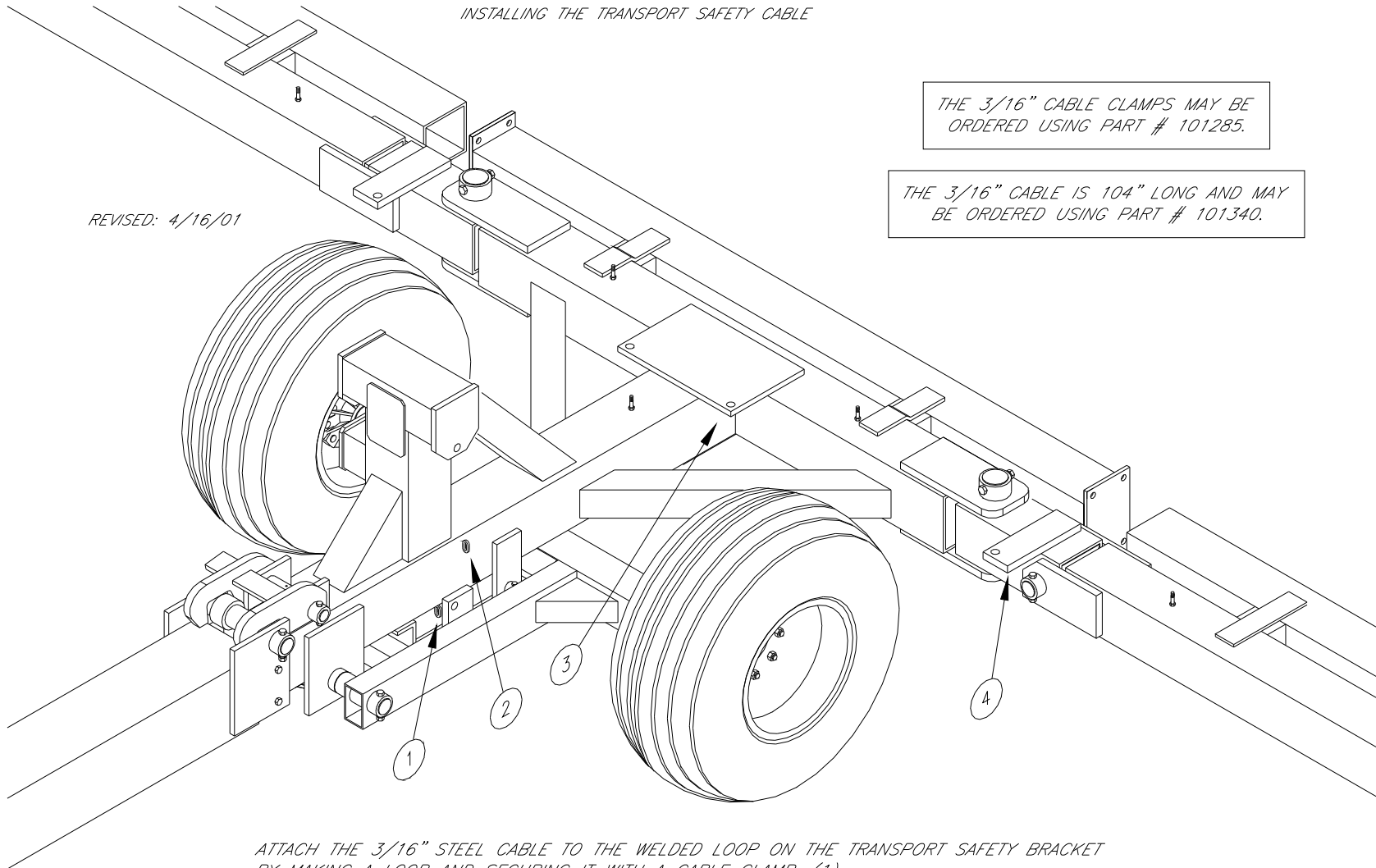


INSTALLING THE TRANSPORT SAFETY CABLE

REVISED: 4/16/01

THE 3/16" CABLE CLAMPS MAY BE ORDERED USING PART # 101285.

THE 3/16" CABLE IS 104" LONG AND MAY BE ORDERED USING PART # 101340.



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)

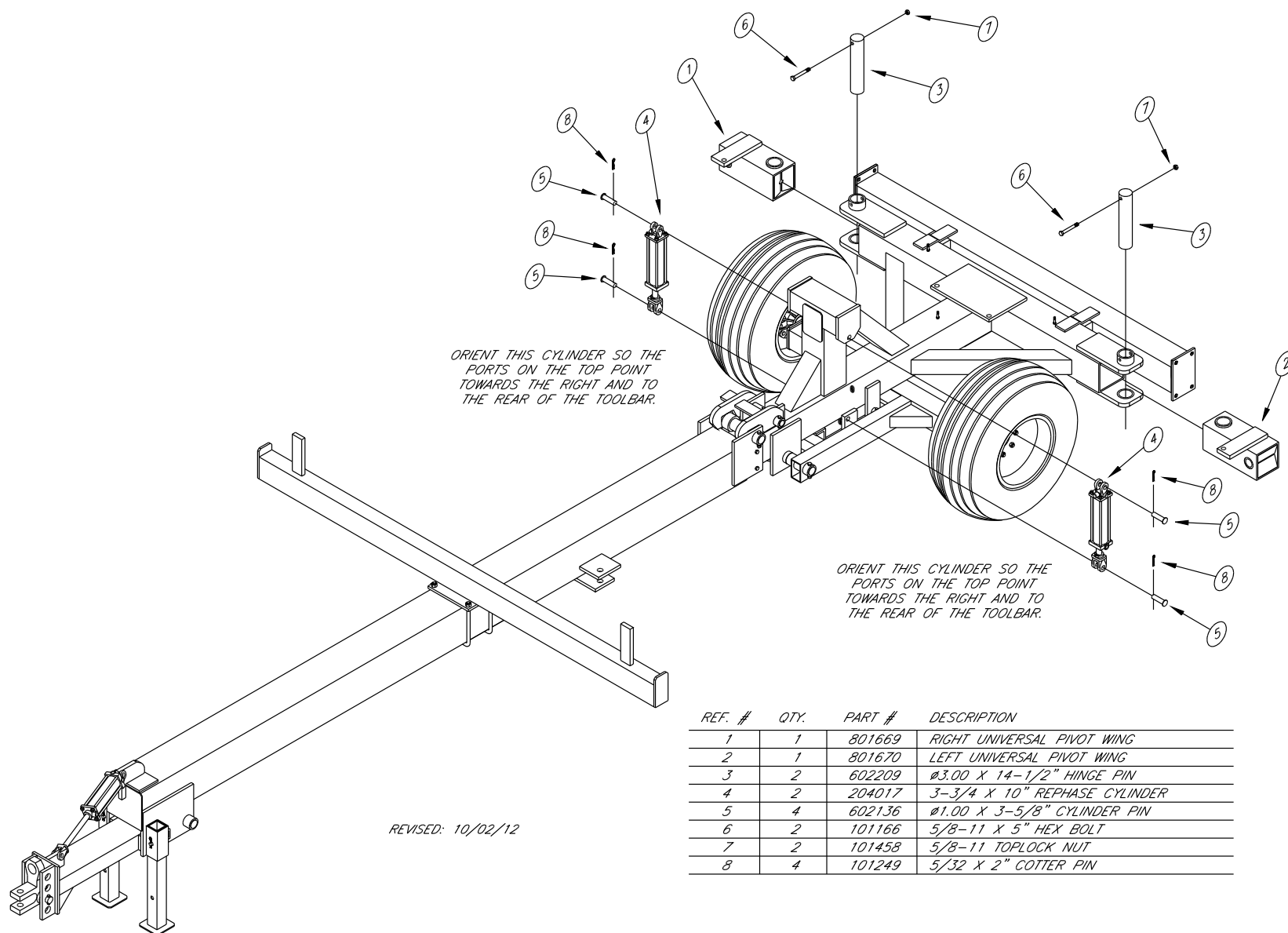
PULL THE CABLE UP THROUGH THE LOOP WELDED ON THE 7 X 7 FRAME. (2)

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

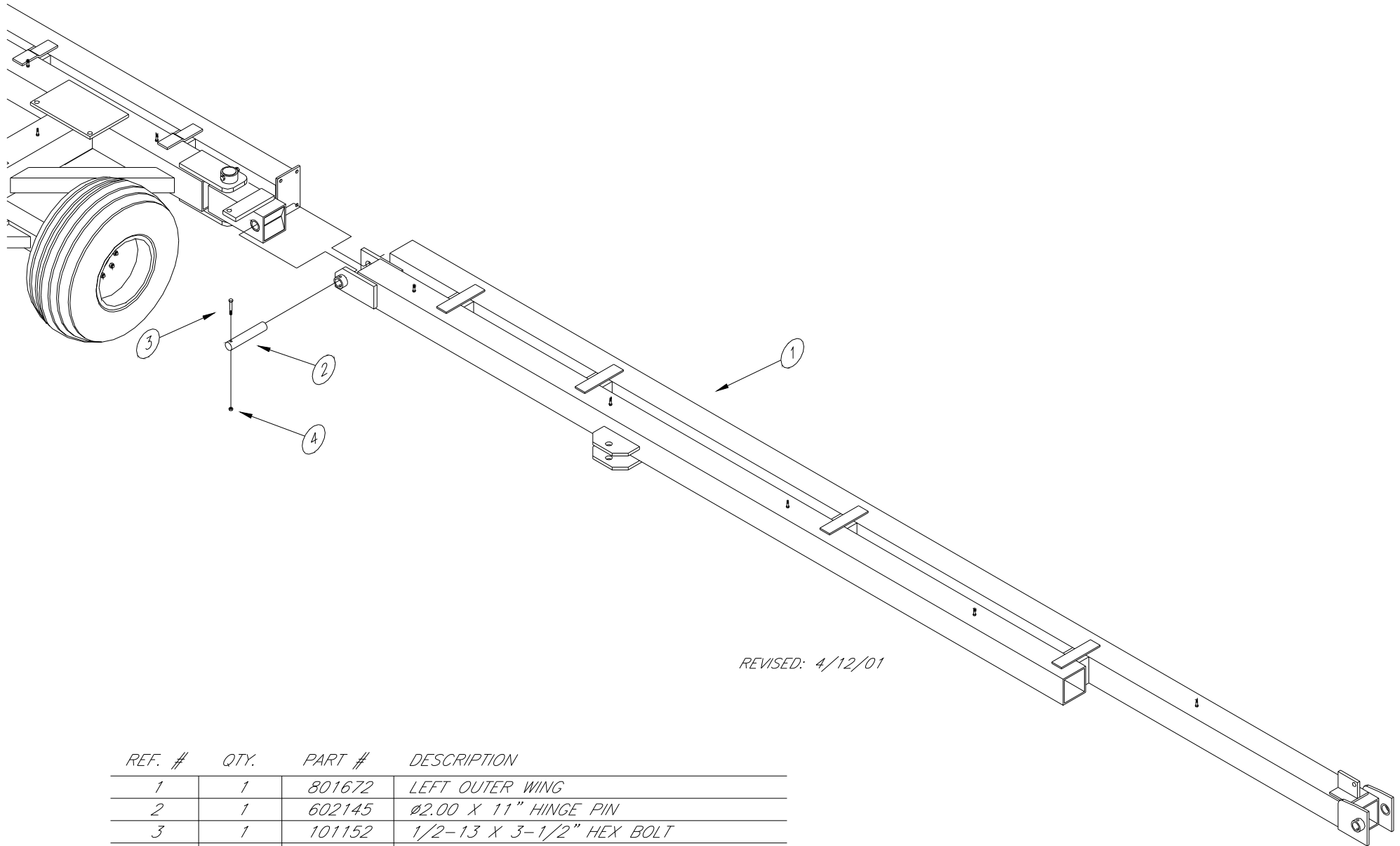
CONTINUE TO PULL THE CABLE TO THE FINAL WELDED LOOP LOCATED ON THE INNER WING. (4)

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

UNIVERSAL PIVOT WING ASSEMBLY & MAINFRAME LIFT CYLINDER ATTACHMENT

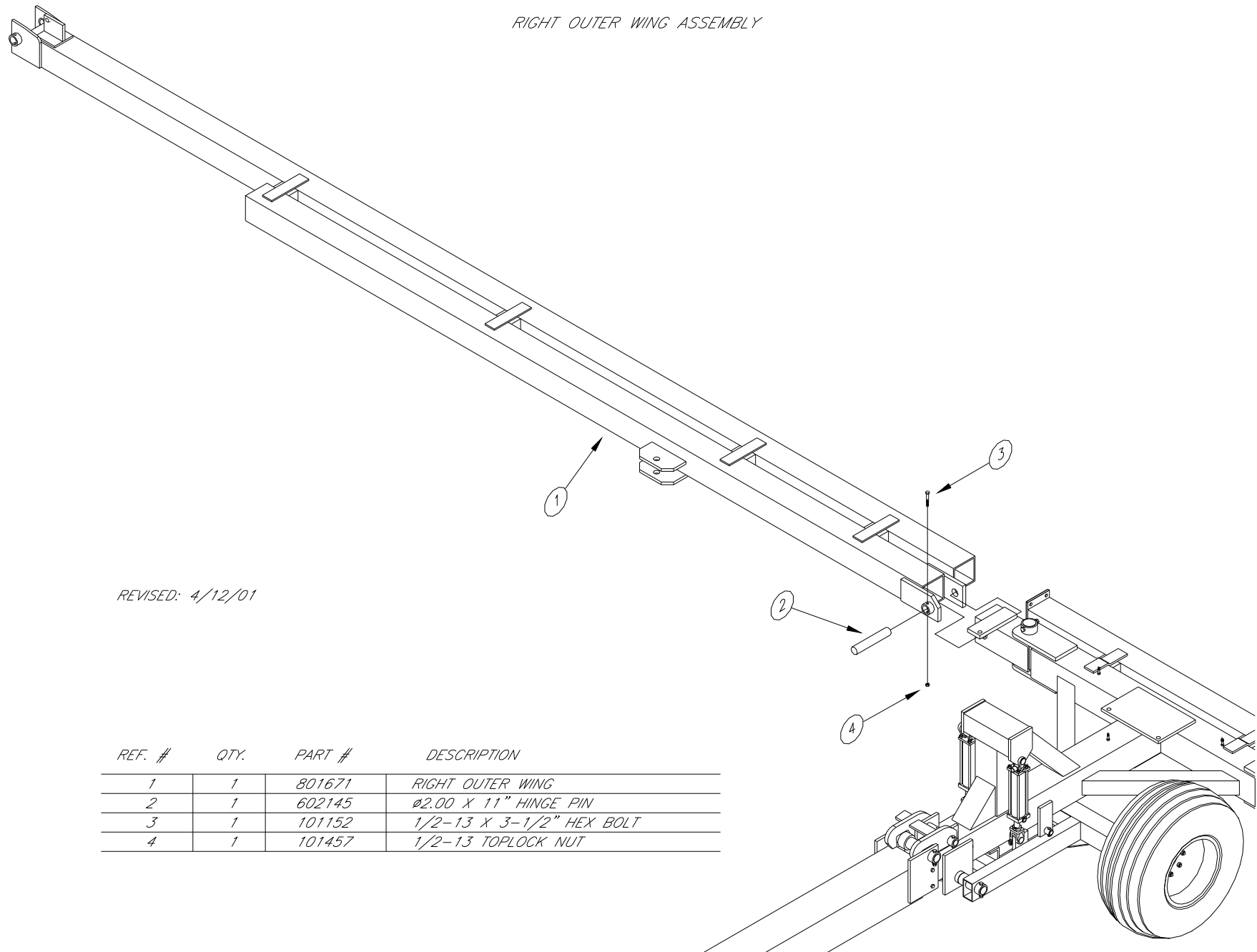


LEFT OUTER WING ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801672	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

RIGHT OUTER WING ASSEMBLY

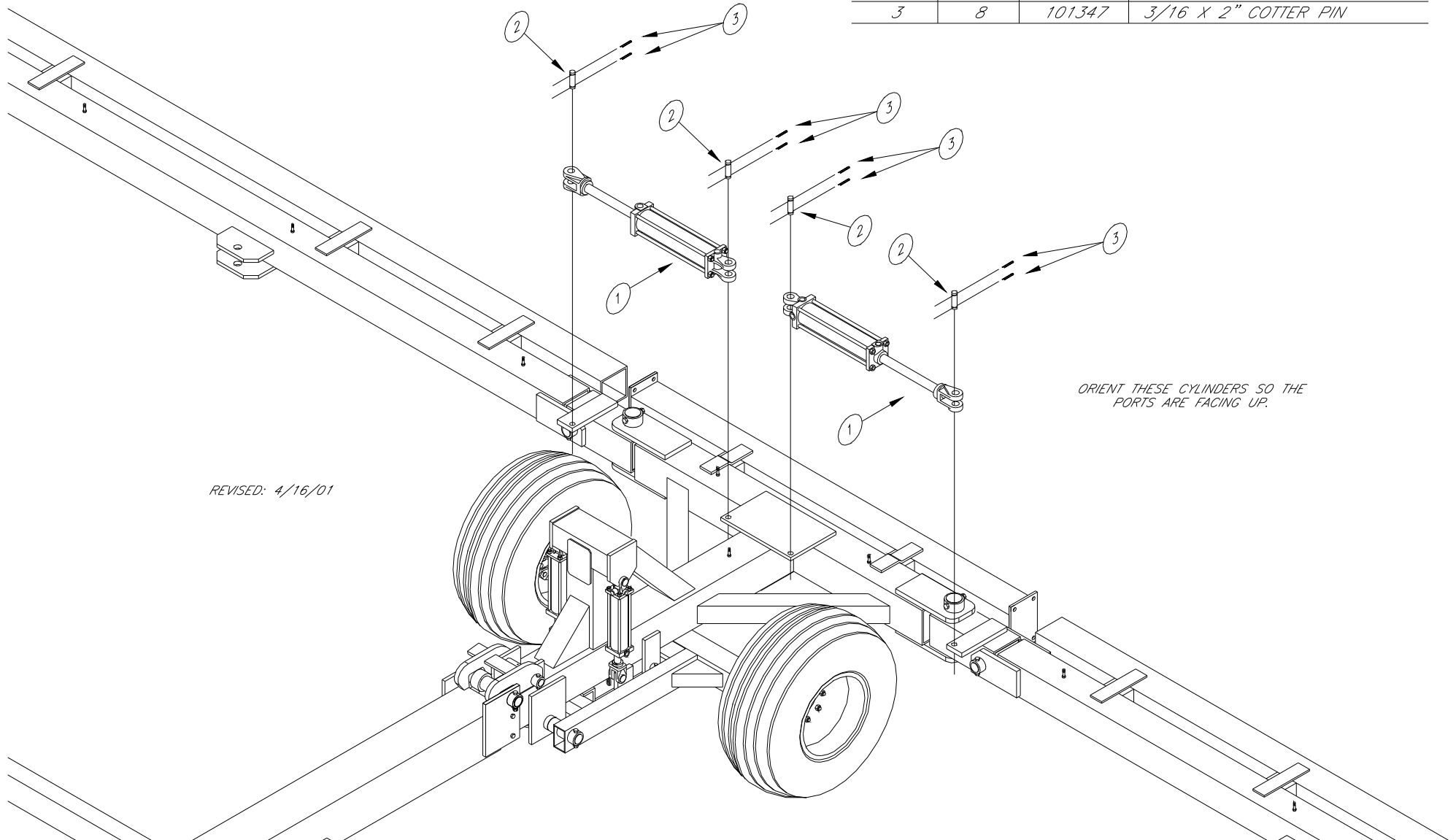


REVISED: 4/12/01

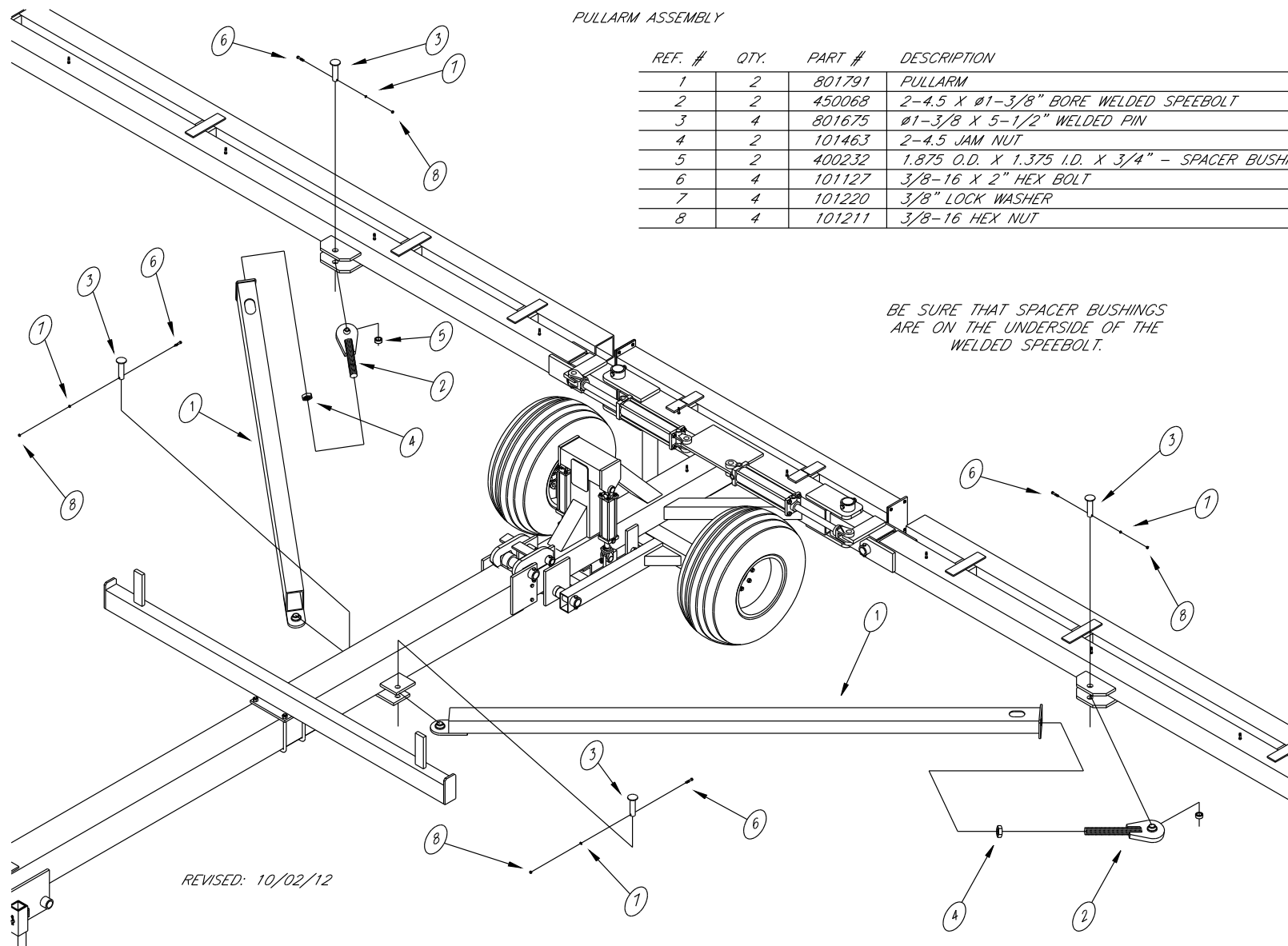
REF. #	QTY.	PART #	DESCRIPTION
1	1	801671	RIGHT OUTER WING
2	1	602145	Ø2.00 X 11" HINGE PIN
3	1	101152	1/2-13 X 3-1/2" HEX BOLT
4	1	101457	1/2-13 TOPLOCK NUT

WING FOLD CYLINDER INSTALLATION

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



REVISED: 4/16/01



PULLARM ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	2	801791	PULLARM
2	2	450068	2-4.5 X Ø1-3/8" BORE WELDED SPEEDBOLT
3	4	801675	Ø1-3/8 X 5-1/2" WELDED PIN
4	2	101463	2-4.5 JAM NUT
5	2	400232	1.875 O.D. X 1.375 I.D. X 3/4" - SPACER BUSHING
6	4	101127	3/8-16 X 2" HEX BOLT
7	4	101220	3/8" LOCK WASHER
8	4	101211	3/8-16 HEX NUT

BE SURE THAT SPACER BUSHINGS
ARE ON THE UNDERSIDE OF THE
WELDED SPEEDBOLT.

REVISED: 10/02/12

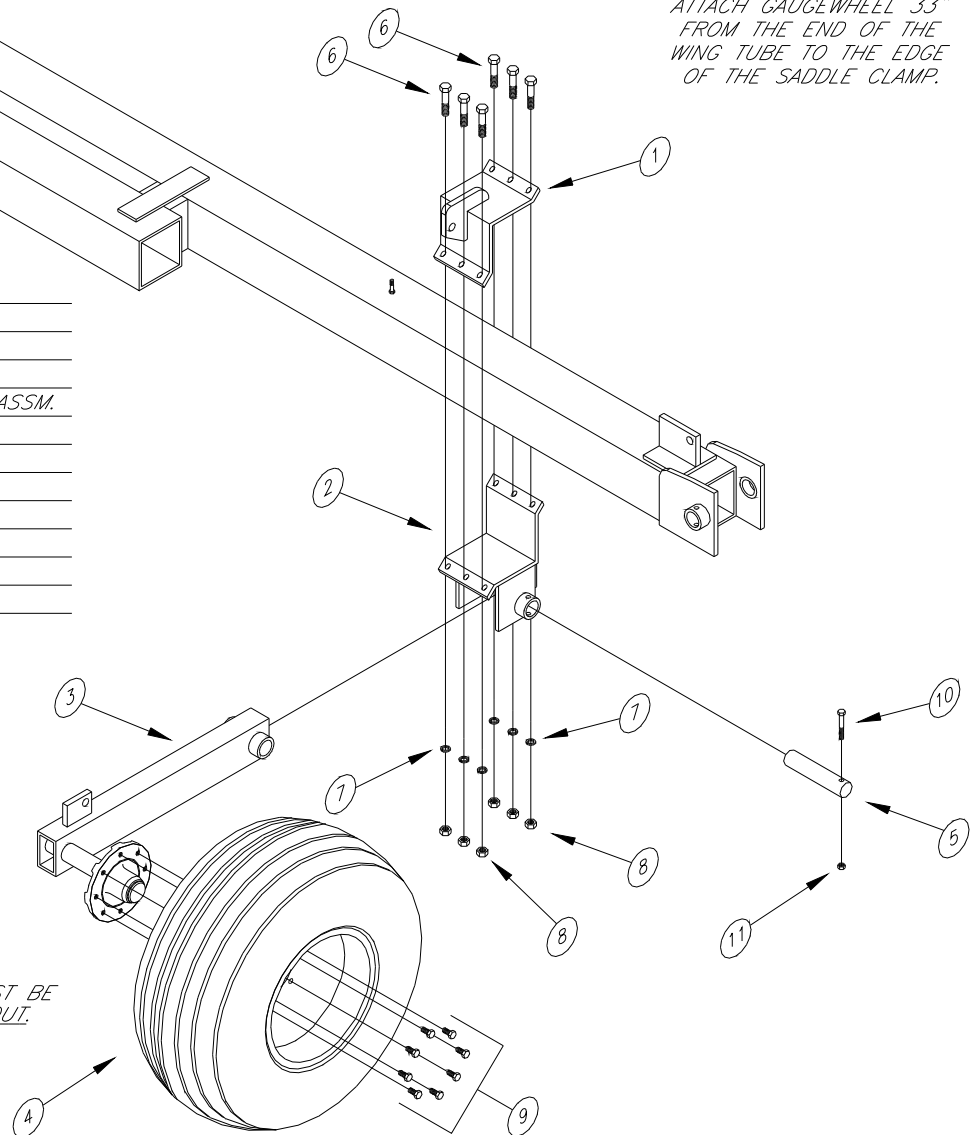
LEFT GAUGEWHEEL ASSEMBLY

ATTACH GAUGEWHEEL 33"
FROM THE END OF THE
WING TUBE TO THE EDGE
OF THE SADDLE CLAMP.

REF. #	QTY.	PART #	DESCRIPTION
1	1	801676	TOP SADDLE CLAMP
2	1	801678	LEFT LOWER SADDLE CLAMP ASSEMBLY
3	1	801680	LEFT GAUGEWHEEL ARM ASSEMBLY
4	1	301168	16.5L X 16.1SL 10 PLY TIRE & WHEEL ASSM.
5	1	602210	Ø2.00 X 9-1/4" HINGE PIN
6	6	101173	3/4-10 X 3" HEX BOLT
7	6	101224	3/4" LOCK WASHER
8	6	101215	3/4-10 HEX NUT
9	8	301151	9/16-18 X 1-1/8" UNF LUG BOLT
10	1	101152	1/2-13 X 3-1/2" HEX BOLT
11	1	101457	1/2-13 TOPLOCK NUT

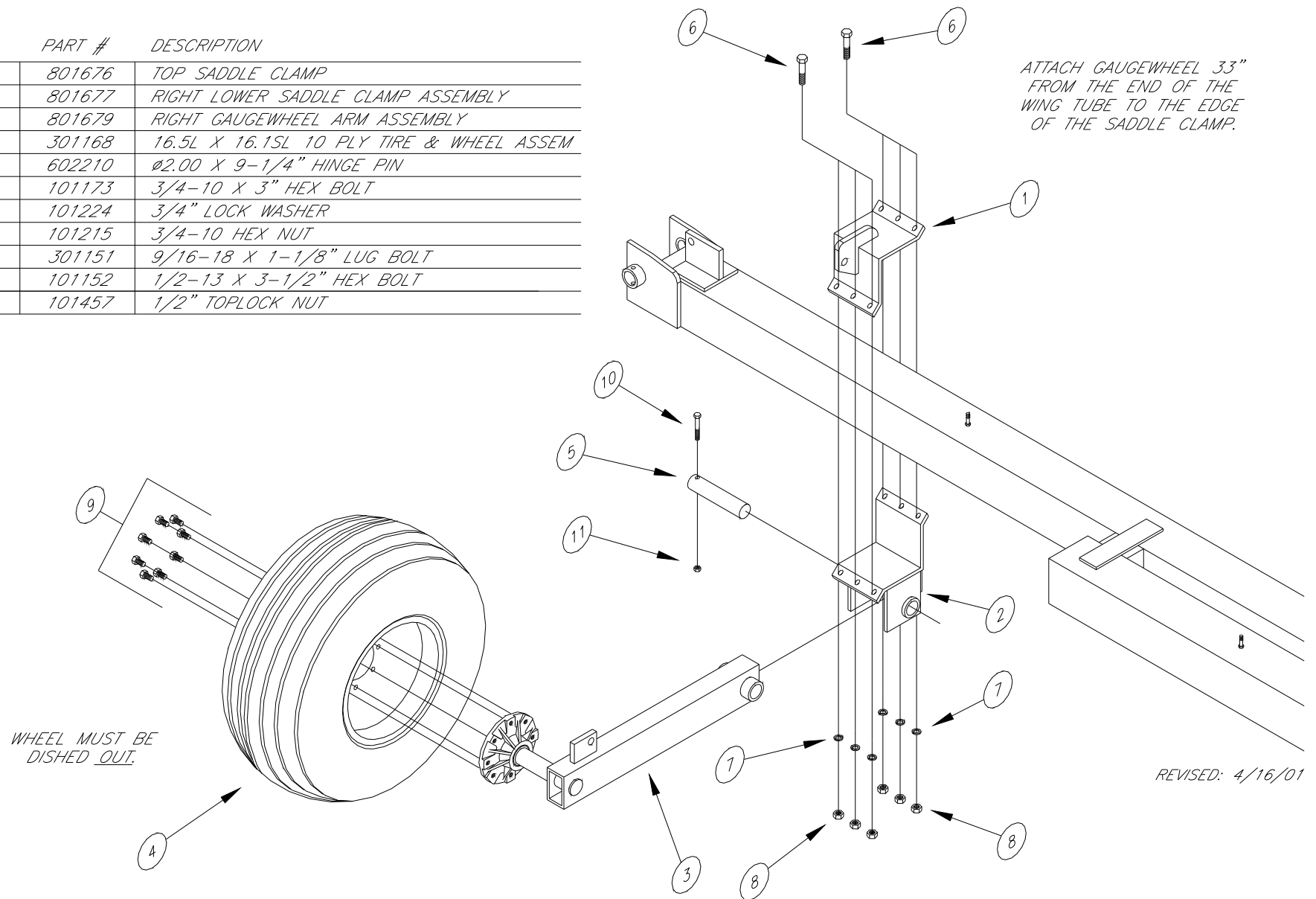
REVISED: 4/16/01

WHEEL MUST BE
DISHED OUT.



RIGHT GAUGEWHEEL ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801676	TOP SADDLE CLAMP
2	1	801677	RIGHT LOWER SADDLE CLAMP ASSEMBLY
3	1	801679	RIGHT GAUGEWHEEL ARM ASSEMBLY
4	1	301168	16.5L X 16.1SL 10 PLY TIRE & WHEEL ASSEM
5	1	602210	Ø2.00 X 9-1/4" HINGE PIN
6	6	101173	3/4-10 X 3" HEX BOLT
7	6	101224	3/4" LOCK WASHER
8	6	101215	3/4-10 HEX NUT
9	8	301151	9/16-18 X 1-1/8" LUG BOLT
10	1	101152	1/2-13 X 3-1/2" HEX BOLT
11	1	101457	1/2" TOPLOCK NUT



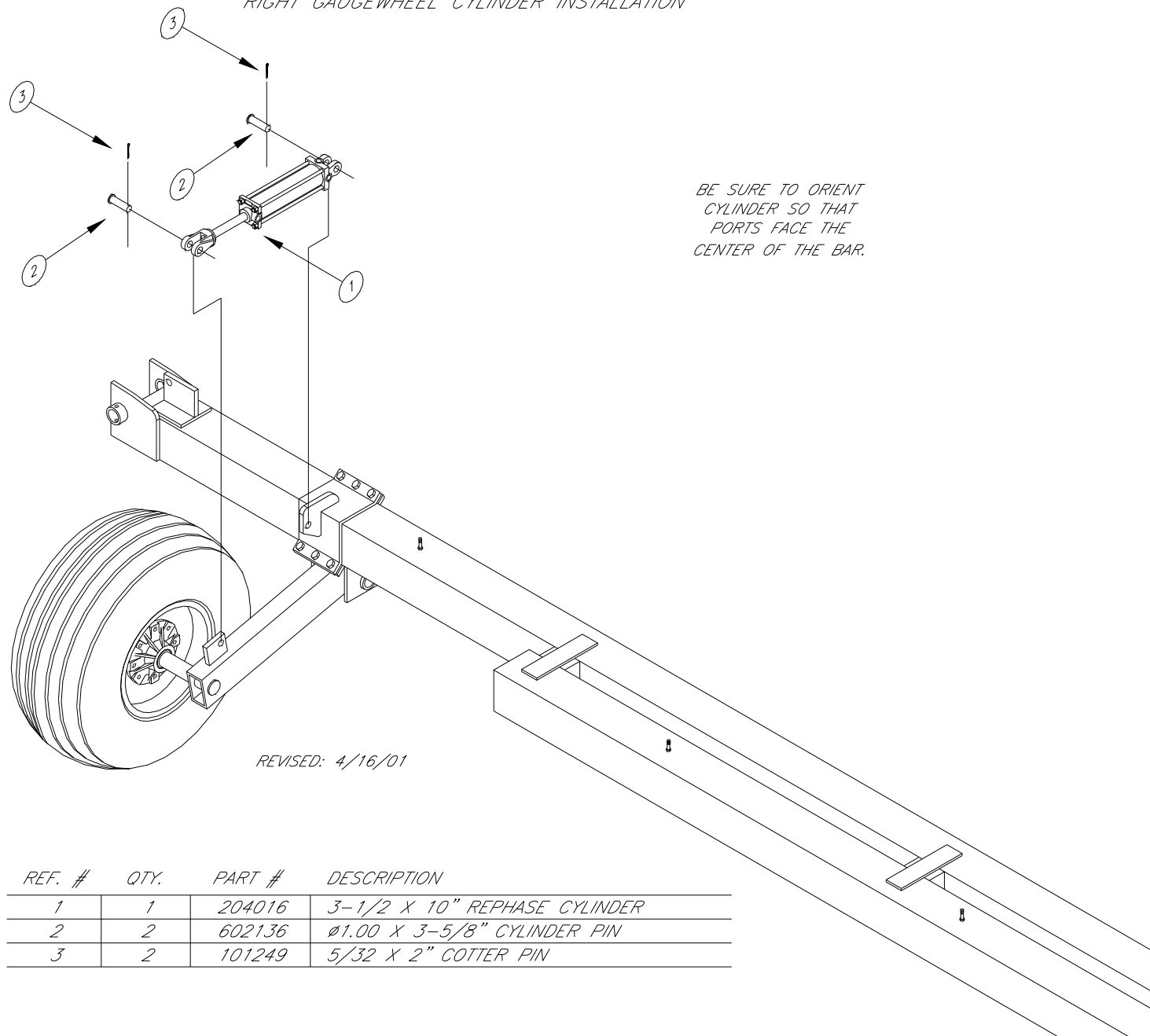
LEFT GAUGEWHEEL CYLINDER INSTALLATION

BE SURE TO ORIENT
CYLINDER SO THAT
PORTS FACE THE
CENTER OF THE BAR.

REF. #	QTY.	PART #	DESCRIPTION
1	1	204016	3-1/2 X 10" REPHASE CYLINDER
2	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
3	2	101249	5/32 X 2" COTTER PIN

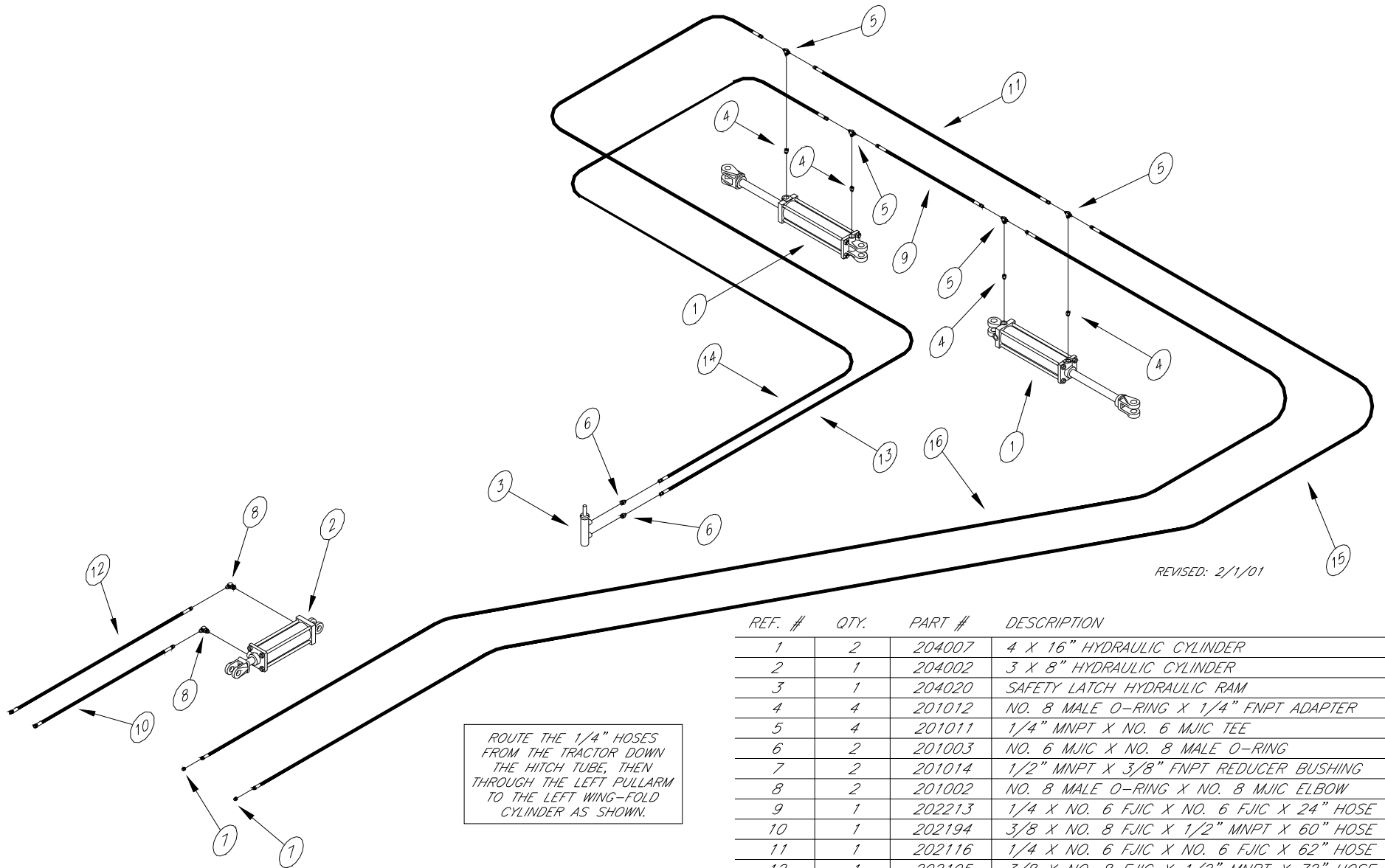
REVISED: 4/16/01

RIGHT GAUGEWHEEL CYLINDER INSTALLATION



REF. #	QTY.	PART #	DESCRIPTION
1	1	204016	3-1/2 X 10" REPHASE CYLINDER
2	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
3	2	101249	5/32 X 2" COTTER PIN

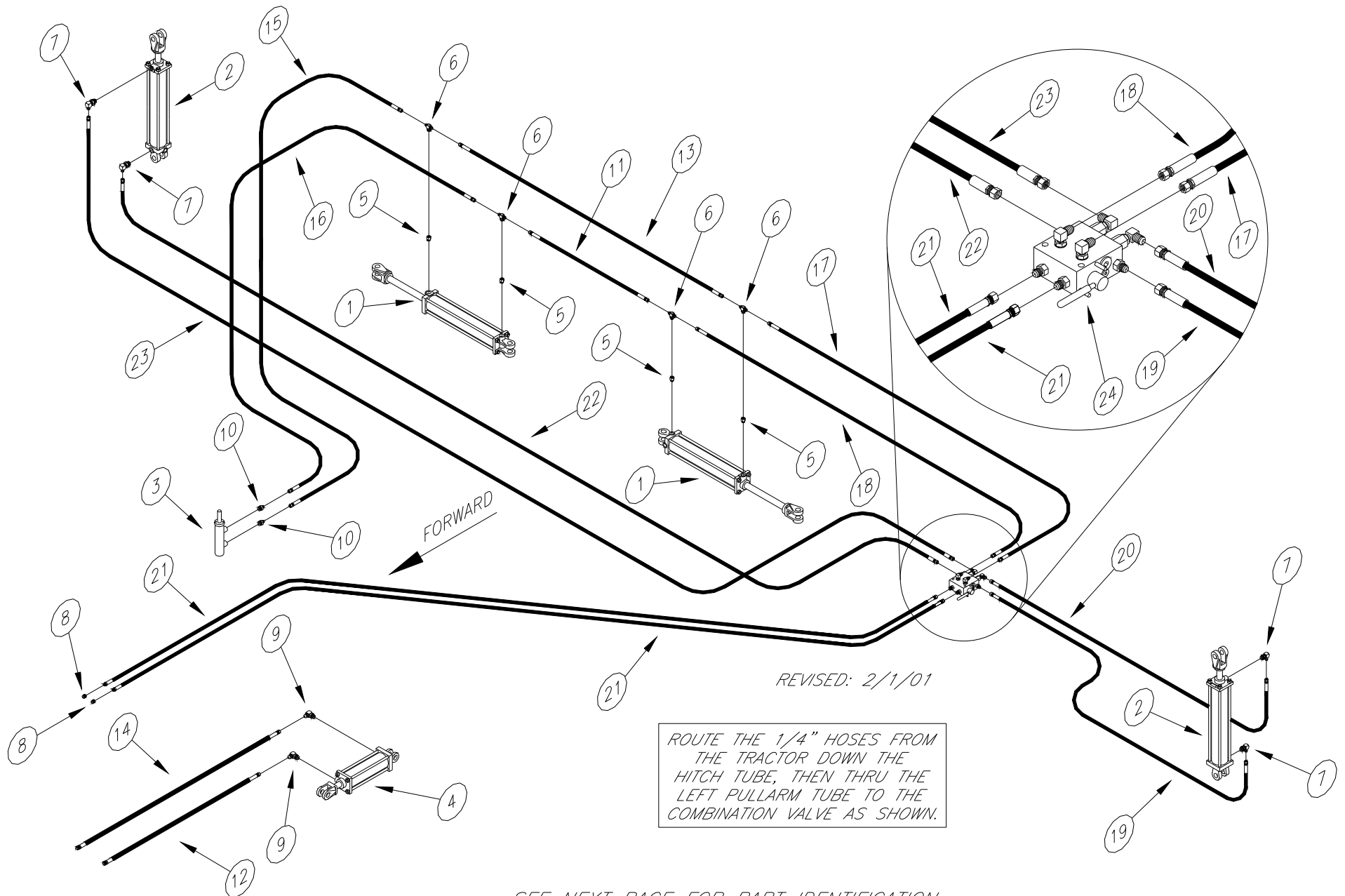
HYDRAULIC WING-FOLD SYSTEM



REVISED: 2/1/01

REF. #	QTY.	PART #	DESCRIPTION
1	2	204007	4 X 16" HYDRAULIC CYLINDER
2	1	204002	3 X 8" HYDRAULIC CYLINDER
3	1	204020	SAFETY LATCH HYDRAULIC RAM
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	2	201002	NO. 8 MALE O-RING X NO. 8 MJIC ELBOW
9	1	202213	1/4 X NO. 6 FJIC X NO. 6 FJIC X 24" HOSE
10	1	202194	3/8 X NO. 8 FJIC X 1/2" MNPT X 60" HOSE
11	1	202116	1/4 X NO. 6 FJIC X NO. 6 FJIC X 62" HOSE
12	1	202195	3/8 X NO. 8 FJIC X 1/2" MNPT X 72" HOSE
13	1	202007	1/4 X NO. 6 FJIC X NO. 6 FJIC X 84" HOSE
14	1	202226	1/4 X NO. 6 FJIC X NO. 6 FJIC X 104" HOSE
15	1	202220	1/4 X NO. 6 FJIC X 3/8" MNPT X 552" HOSE
16	1	202219	1/4 X NO. 6 FJIC X 3/8" MNPT X 576" HOSE

HYDRAULIC WING FOLD/MARKER SEQUENCE SYSTEM

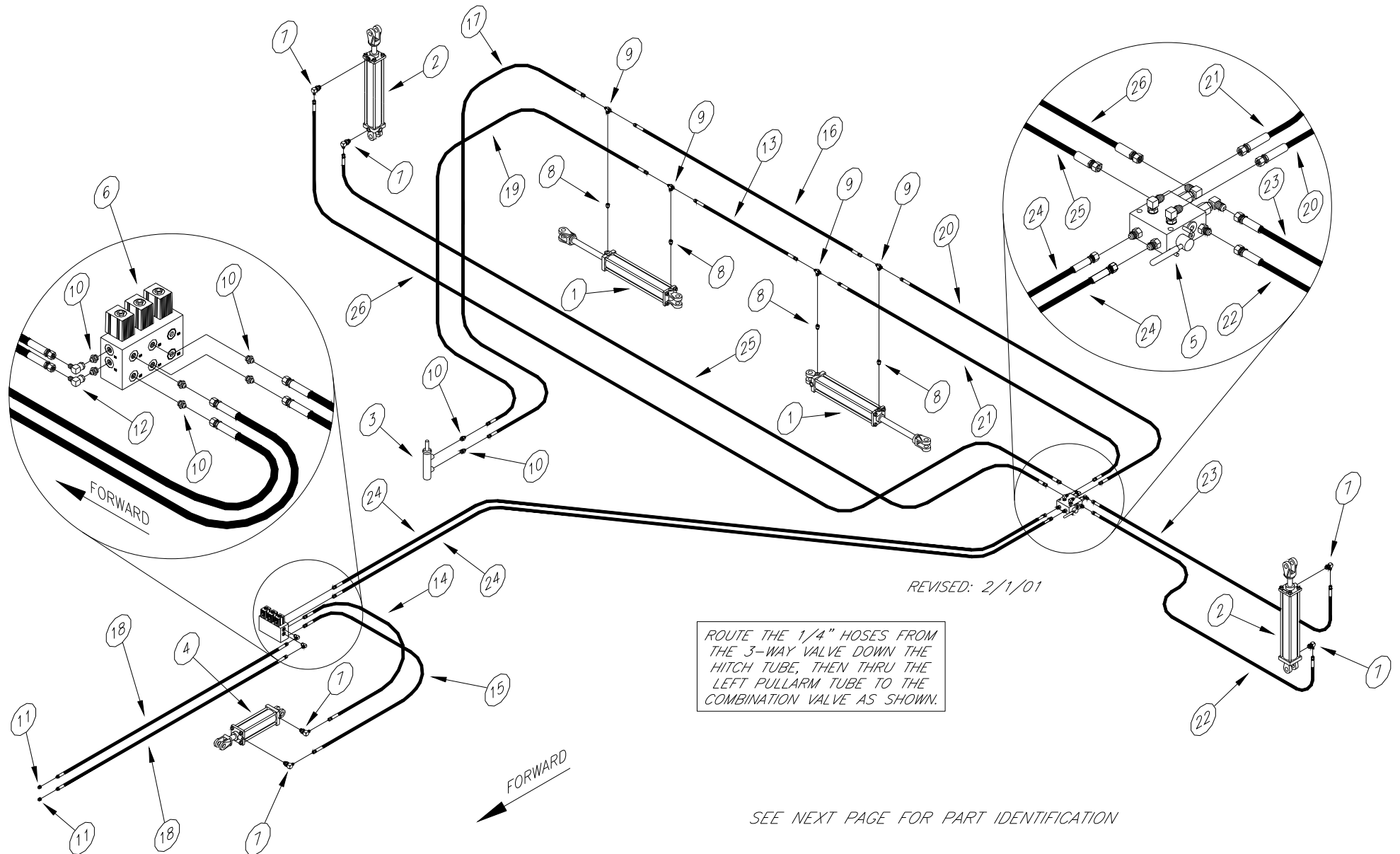


SEE NEXT PAGE FOR PART IDENTIFICATION

HYDRAULIC WING-FOLD/MARKER SEQUENCE SYSTEM

<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>	<i>REVISED: 2/1/01</i>
<i>1</i>	<i>2</i>	<i>204007</i>	<i>4 X 16 HYDRAULIC CYLINDER</i>	
<i>2</i>	<i>2</i>	<i>204008</i>	<i>3 X 24 HYDRAULIC CYLINDER</i>	
<i>3</i>	<i>1</i>	<i>204020</i>	<i>SAFETY LATCH HYDRAULIC RAM</i>	
<i>4</i>	<i>1</i>	<i>204002</i>	<i>3 X 8" HYDRAULIC CYLINDER</i>	
<i>5</i>	<i>4</i>	<i>201012</i>	<i>NO. 8 MALE O-RING X 1/4" FNPT ADAPTER</i>	
<i>6</i>	<i>4</i>	<i>201011</i>	<i>1/4" MNPT X NO. 6 MJIC TEE</i>	
<i>7</i>	<i>4</i>	<i>201001</i>	<i>NO. 8 MALE O-RING X NO. 6 MJIC ELBOW</i>	
<i>8</i>	<i>2</i>	<i>201014</i>	<i>1/2" MNPT X 3/8" FNPT REDUCER BUSHING</i>	
<i>9</i>	<i>2</i>	<i>201002</i>	<i>NO. 8 MALE O-RING X NO. 8 MJIC ELBOW</i>	
<i>10</i>	<i>2</i>	<i>201003</i>	<i>NO. 6 MJIC X NO. 8 MALE O-RING</i>	
<i>11</i>	<i>1</i>	<i>202191</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 24" HOSE</i>	
<i>12</i>	<i>1</i>	<i>202194</i>	<i>3/8 X NO. 8 FJIC X 1/2" MNPT X 60" HOSE</i>	
<i>13</i>	<i>1</i>	<i>202116</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 62" HOSE</i>	
<i>14</i>	<i>1</i>	<i>202195</i>	<i>3/8 X NO. 8 FJIC X 1/2" MNPT X 72" HOSE</i>	
<i>15</i>	<i>1</i>	<i>202007</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 84" HOSE</i>	
<i>16</i>	<i>1</i>	<i>202226</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 104" HOSE</i>	
<i>17</i>	<i>1</i>	<i>202035</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 120" HOSE</i>	
<i>18</i>	<i>1</i>	<i>202241</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 140" HOSE</i>	
<i>19</i>	<i>1</i>	<i>202237</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 230" HOSE</i>	
<i>20</i>	<i>1</i>	<i>202115</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 250" HOSE</i>	
<i>21</i>	<i>2</i>	<i>202240</i>	<i>1/4 X NO. 6 FJIC X 3/8" MNPT X 432" HOSE</i>	
<i>22</i>	<i>1</i>	<i>202238</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 530" HOSE</i>	
<i>23</i>	<i>1</i>	<i>202239</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 550" HOSE</i>	
<i>24</i>	<i>1</i>	<i>202239</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 550" HOSE</i>	

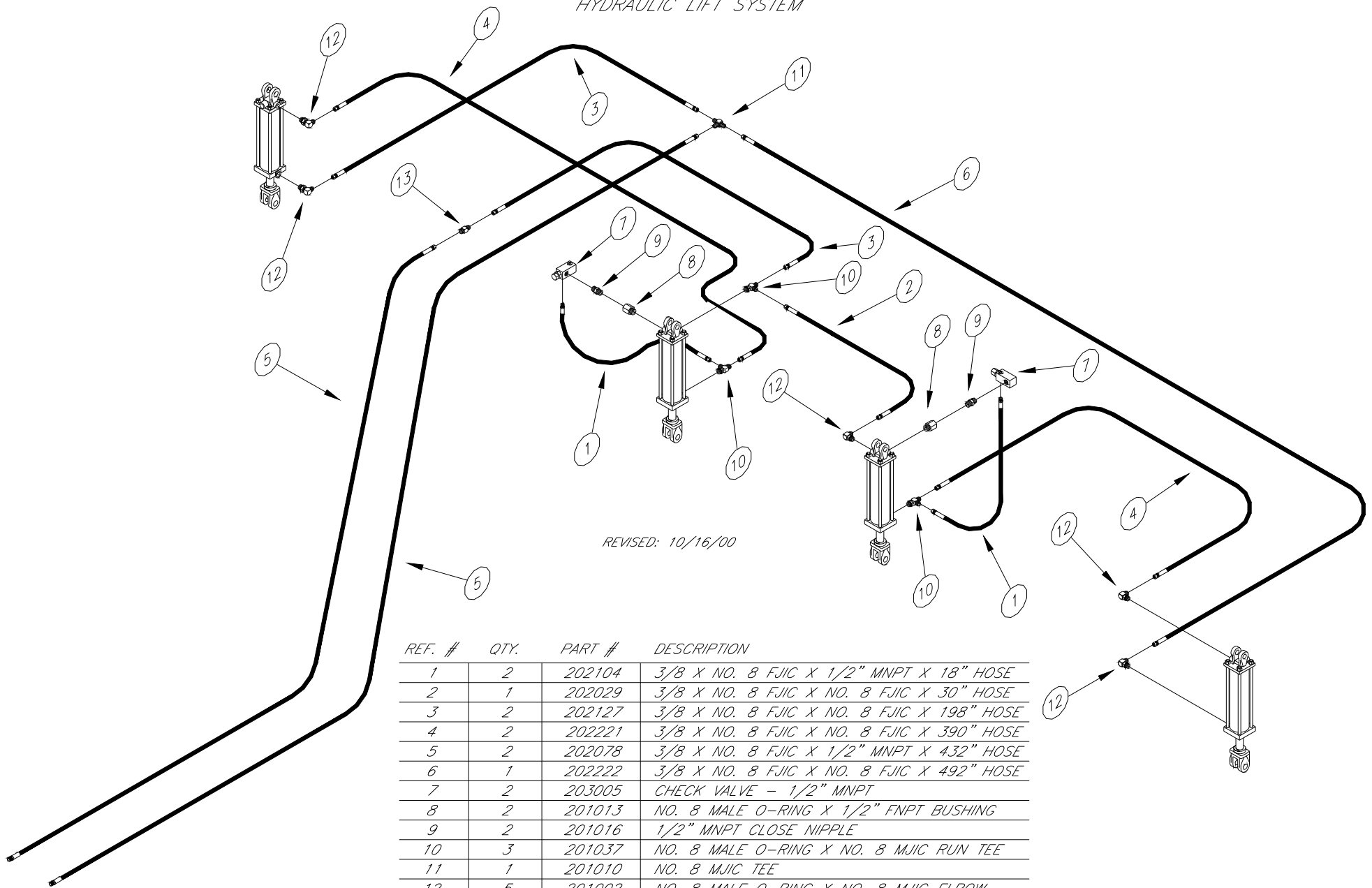
HYDRAULIC WING FOLD/MARKER SEQUENCE SYSTEM
WITH OPTIONAL 3-WAY CONTROL VALVE



*HYDRAULIC WING-FOLD/MARKER SEQUENCE SYSTEM
WITH OPTIONAL 3-WAY CONTROL VALVE*

<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>	<i>REVISED: 2/1/01</i>
<i>1</i>	<i>2</i>	<i>204007</i>	<i>4 X 16 HYDRAULIC CYLINDER</i>	
<i>2</i>	<i>2</i>	<i>204008</i>	<i>3 X 24 HYDRAULIC CYLINDER</i>	
<i>3</i>	<i>1</i>	<i>204020</i>	<i>SAFETY LATCH HYDRAULIC RAM</i>	
<i>4</i>	<i>1</i>	<i>204002</i>	<i>3 X 8" HYDRAULIC CYLINDER</i>	
<i>5</i>	<i>1</i>	<i>203008</i>	<i>COMBINATION/SEQUENCE VALVE</i>	
<i>6</i>	<i>1</i>	<i>203123</i>	<i>3-WAY ELECTRONIC CONTROL VALVE</i>	
<i>7</i>	<i>6</i>	<i>201001</i>	<i>NO. 8 MALE O-RING X NO. 6 MJIC ELBOW</i>	
<i>8</i>	<i>4</i>	<i>201012</i>	<i>NO. 8 MALE O-RING X 1/4" FNPT ADAPTER</i>	
<i>9</i>	<i>4</i>	<i>201011</i>	<i>1/4" MNPT X NO. 6 MJIC TEE</i>	
<i>10</i>	<i>8</i>	<i>201003</i>	<i>NO. 6 MJIC X NO. 8 MALE O-RING</i>	
<i>11</i>	<i>2</i>	<i>201014</i>	<i>1/2" MNPT X 3/8" FNPT REDUCER BUSHING</i>	
<i>12</i>	<i>2</i>	<i>201029</i>	<i>NO. 6 FJIC X NO. 6 MJIC SWIVEL 90°</i>	
<i>13</i>	<i>1</i>	<i>202191</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 24" HOSE</i>	
<i>14</i>	<i>1</i>	<i>202117</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 30" HOSE</i>	
<i>15</i>	<i>1</i>	<i>202242</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 40" HOSE</i>	
<i>16</i>	<i>1</i>	<i>202116</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 62" HOSE</i>	
<i>17</i>	<i>1</i>	<i>202007</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 84" HOSE</i>	
<i>18</i>	<i>2</i>	<i>202017</i>	<i>1/4 X NO. 6 FJIC X 3/8" MNPT X 84" HOSE</i>	
<i>19</i>	<i>1</i>	<i>202226</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 104" HOSE</i>	
<i>20</i>	<i>1</i>	<i>202035</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 120" HOSE</i>	
<i>21</i>	<i>1</i>	<i>202241</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 140" HOSE</i>	
<i>22</i>	<i>1</i>	<i>202237</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 230" HOSE</i>	
<i>23</i>	<i>1</i>	<i>202115</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 250" HOSE</i>	
<i>24</i>	<i>2</i>	<i>202243</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 348" HOSE</i>	
<i>25</i>	<i>1</i>	<i>202238</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 530" HOSE</i>	
<i>26</i>	<i>1</i>	<i>202239</i>	<i>1/4 X NO. 6 FJIC X NO. 6 FJIC X 550" HOSE</i>	

HYDRAULIC LIFT SYSTEM



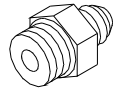
REVISED: 10/16/00

REF. #	QTY.	PART #	DESCRIPTION
1	2	202104	3/8 X NO. 8 FJIC X 1/2" MNPT X 18" HOSE
2	1	202029	3/8 X NO. 8 FJIC X NO. 8 FJIC X 30" HOSE
3	2	202127	3/8 X NO. 8 FJIC X NO. 8 FJIC X 198" HOSE
4	2	202221	3/8 X NO. 8 FJIC X NO. 8 FJIC X 390" HOSE
5	2	202078	3/8 X NO. 8 FJIC X 1/2" MNPT X 432" HOSE
6	1	202222	3/8 X NO. 8 FJIC X NO. 8 FJIC X 492" HOSE
7	2	203005	CHECK VALVE - 1/2" MNPT
8	2	201013	NO. 8 MALE O-RING X 1/2" FNPT BUSHING
9	2	201016	1/2" MNPT CLOSE NIPPLE
10	3	201037	NO. 8 MALE O-RING X NO. 8 MJIC RUN TEE
11	1	201010	NO. 8 MJIC TEE
12	5	201002	NO. 8 MALE O-RING X NO. 8 MJIC ELBOW
13	1	201060	NO. 8 MJIC CLOSE NIPPLE

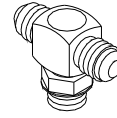
HYDRAULIC COMPONENTS



#201014



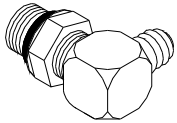
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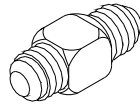
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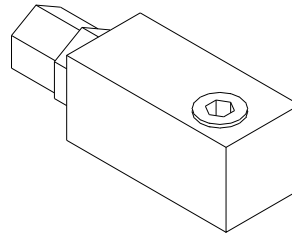
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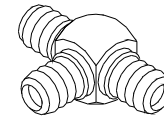
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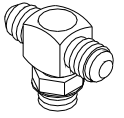
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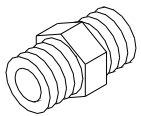
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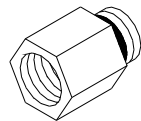
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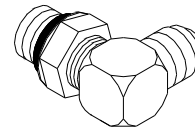
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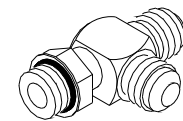
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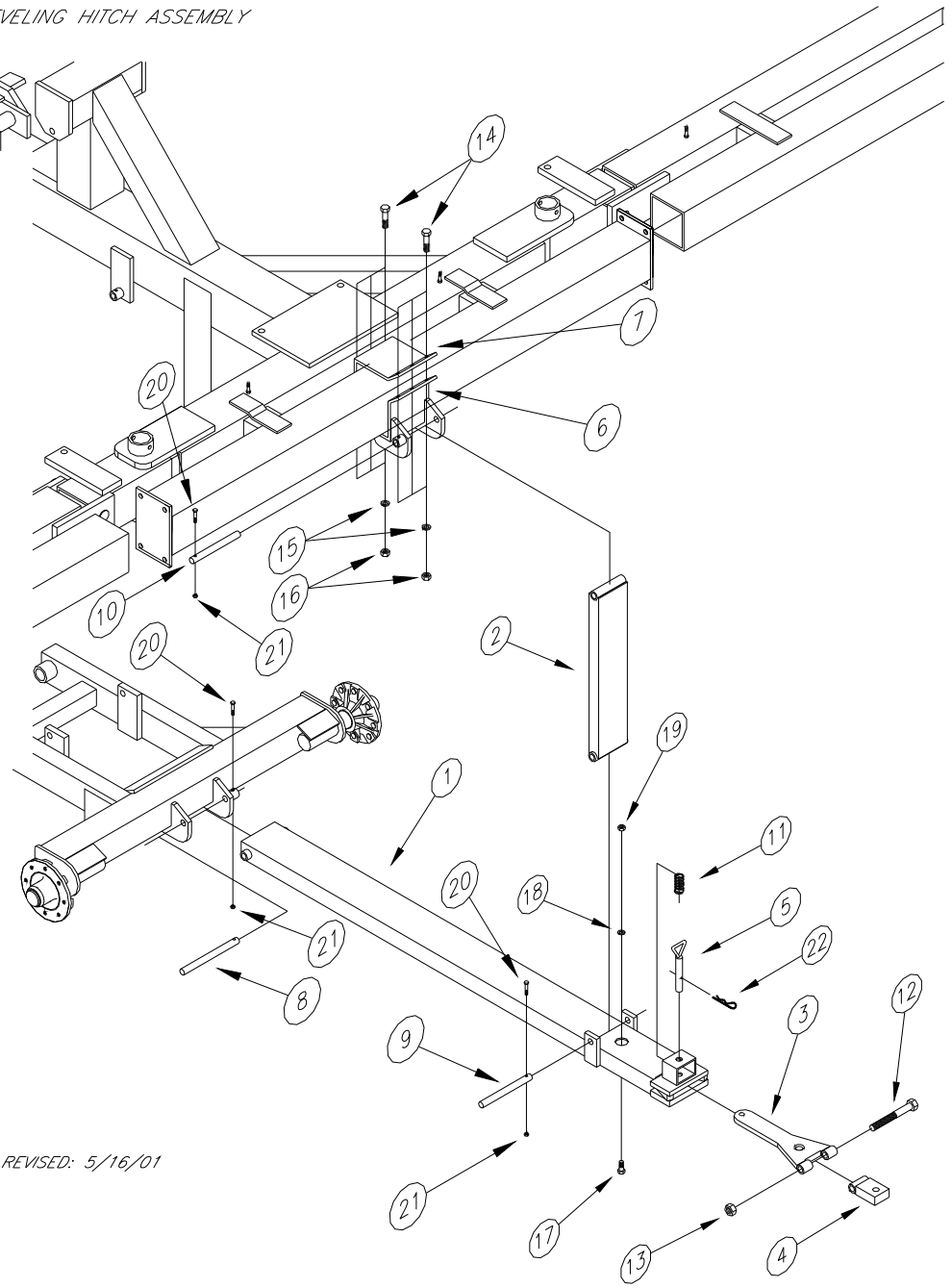
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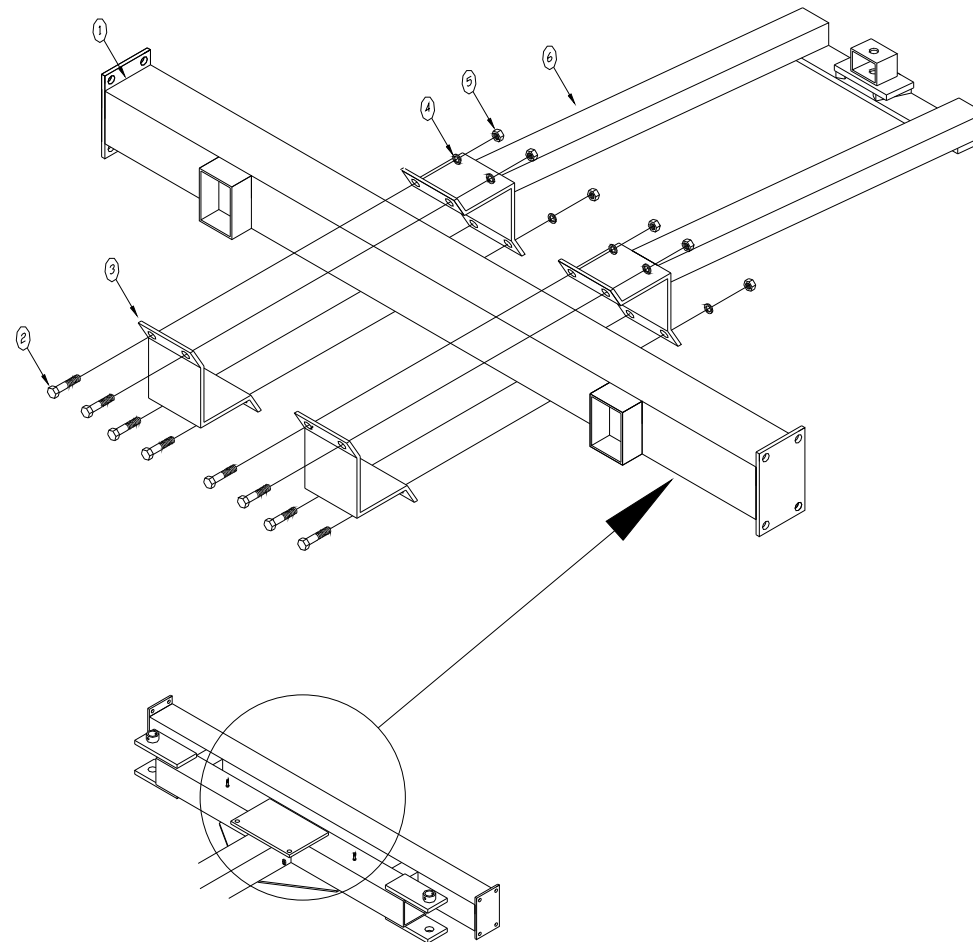
SELF-LEVELING HITCH ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801733	SELF-LEVELING HITCH
2	1	801734	LEVELING LINK - 30-1/2" LONG
3	1	801189	DRAWBAR
4	1	801771	DRAWBAR CLEVIS
5	1	801195	DRAWBAR PIN
6	1	801737	HITCH LOWER SADDLE CLAMP
7	1	400215	1/2 X 8 X 17" SADDLE CLAMP
8	1	602207	Ø1.00 X 11-1/2" HINGE PIN
9	1	602227	Ø1.00 X 10-1/4" HINGE PIN
10	1	602217	Ø1.00 X 9-3/4" HINGE PIN
11	1	101330	COMPRESSION SPRING
12	1	101204	1-8 X 8" HEX BOLT
13	1	101461	1-8 TOPLOCK NUT
14	6	101173	3/4-10 X 3" HEX BOLT
15	6	101224	3/4" LOCK WASHER
16	6	101215	3/4-10 HEX NUT
17	1	101159	5/8-11 X 1-1/2" HEX BOLT
18	1	101223	5/8" LOCK WASHER
19	1	101214	5/8-11 HEX NUT
20	3	101152	3/8-16 X 2" HEX BOLT
21	3	101455	3/8-16 TOPLOCK NUT
22	1	101266	3/16" HAIRPIN



REVISED: 5/16/01

REAR RIGID HITCH ATTACHMENT



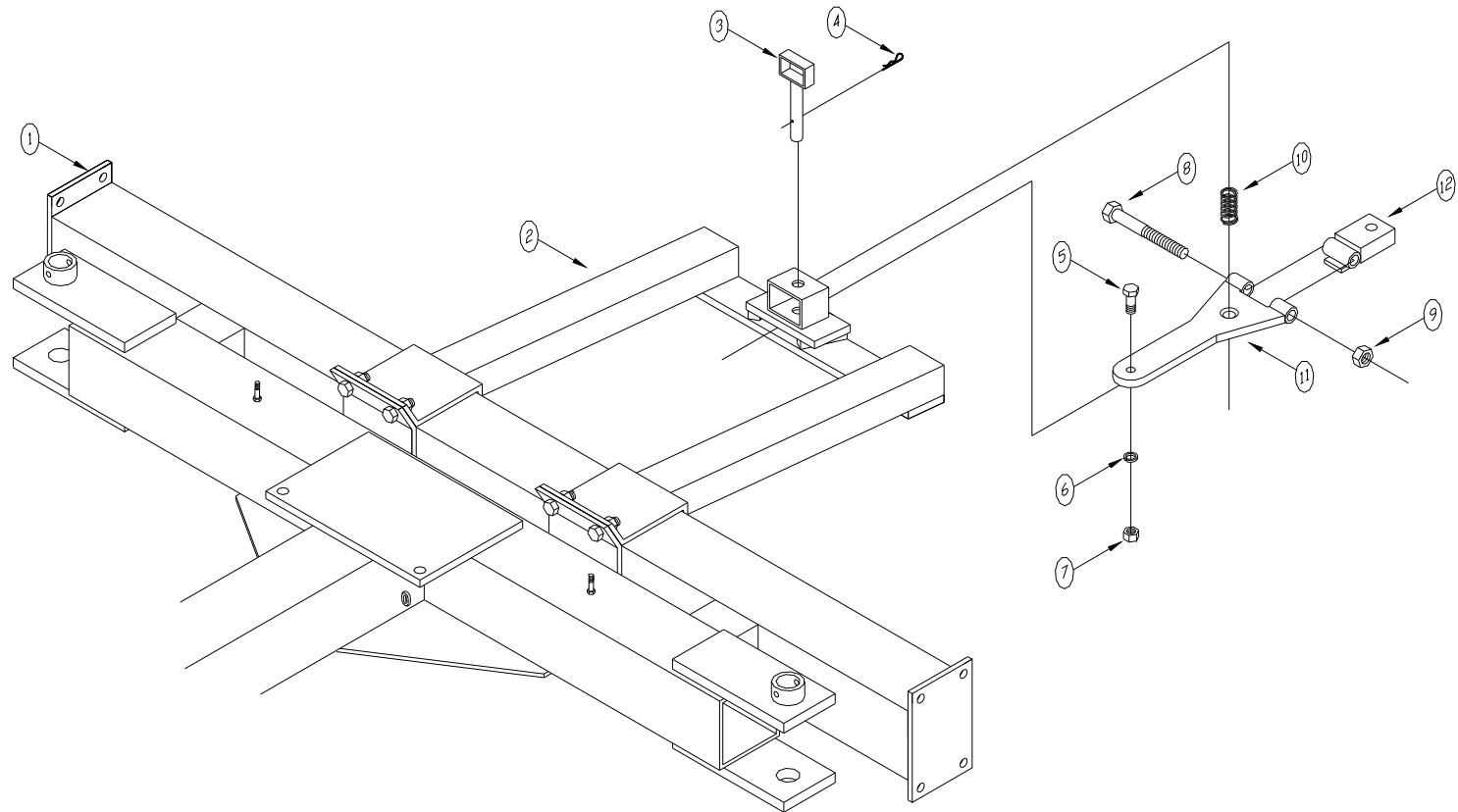
REAR RIGID HITCH ATTACHMENT

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

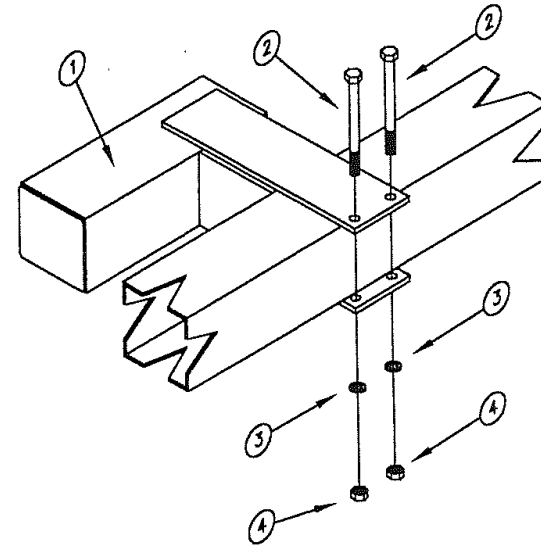
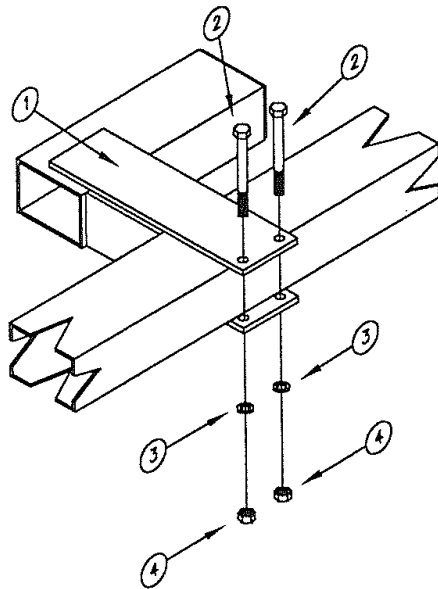
NOTES:

<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>

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

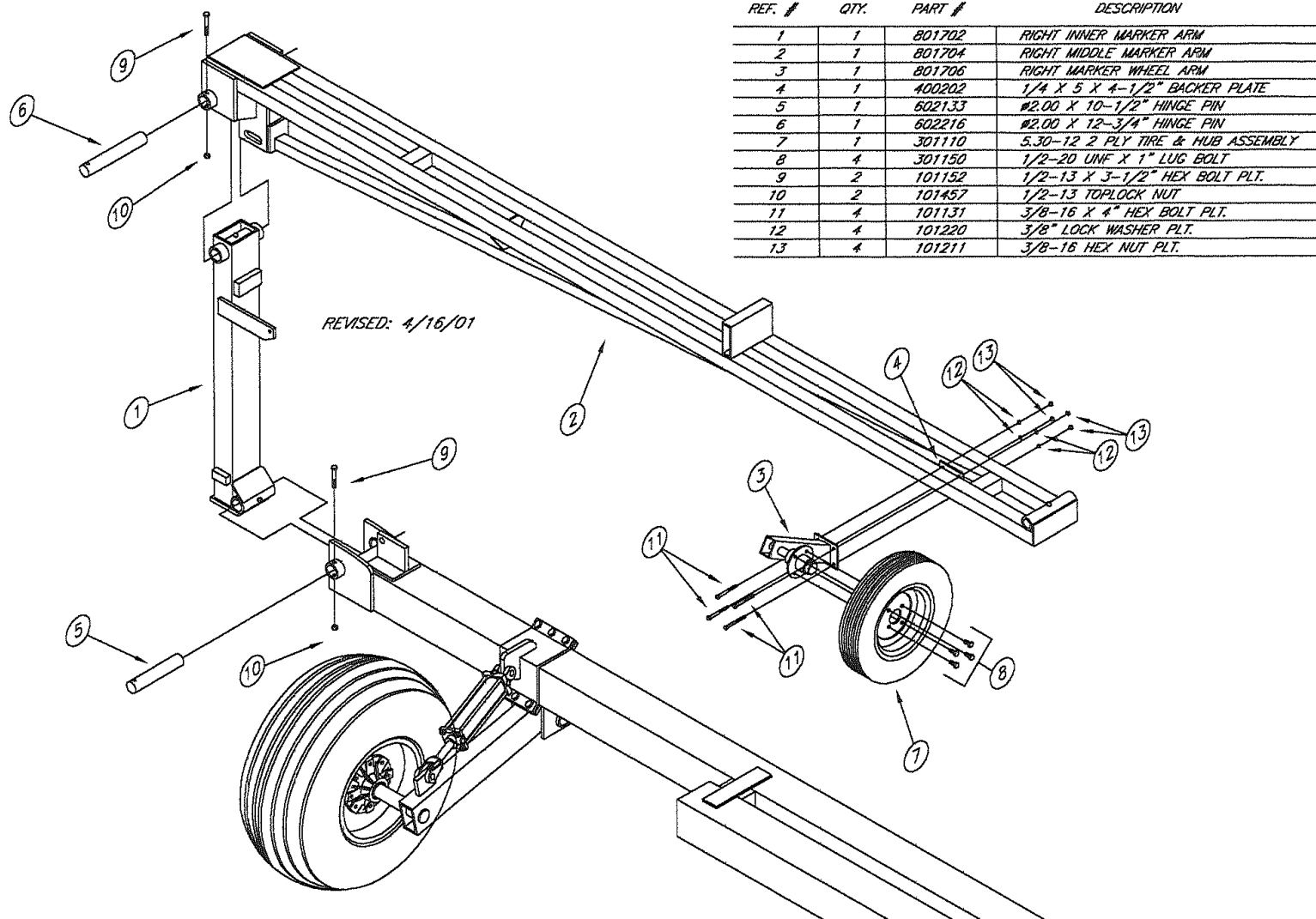
ENTIRE ASSEMBLY (ITEMS 1-4) MAY BE ORDERED USING PART # 900072.



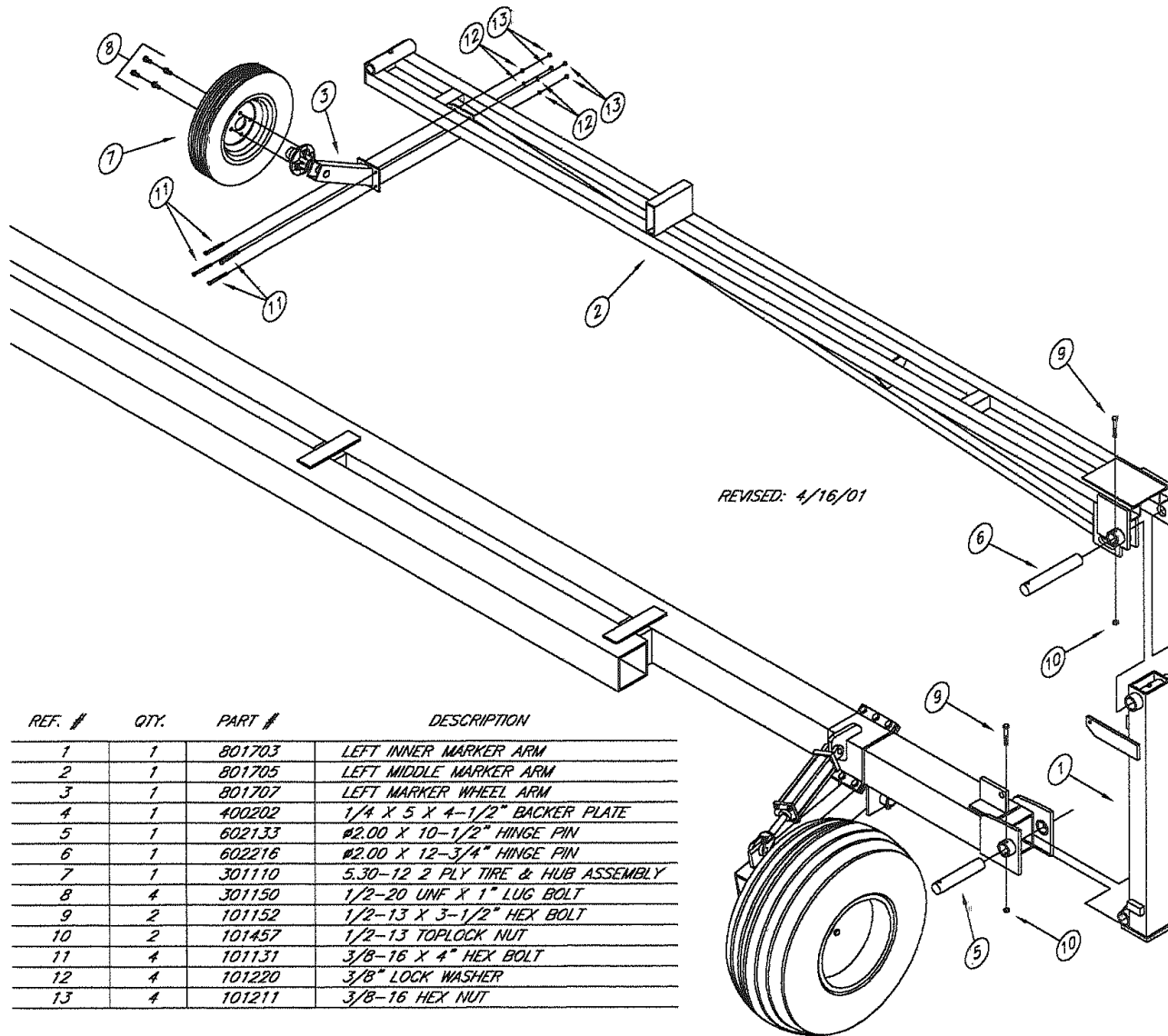
REF #	QTY	PART #	DESCRIPTION
1	1	801730	OFFSET BRACKET FOR 7 X 7 TUBE
2	2	101182	3/4-10 X 9" HEX BOLT
3	2	101224	3/4" LOCK WASHER
4	2	101215	3/4-10 HEX NUT

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

RIGHT INNER/MIDDLE MARKER ARM ASSEMBLY

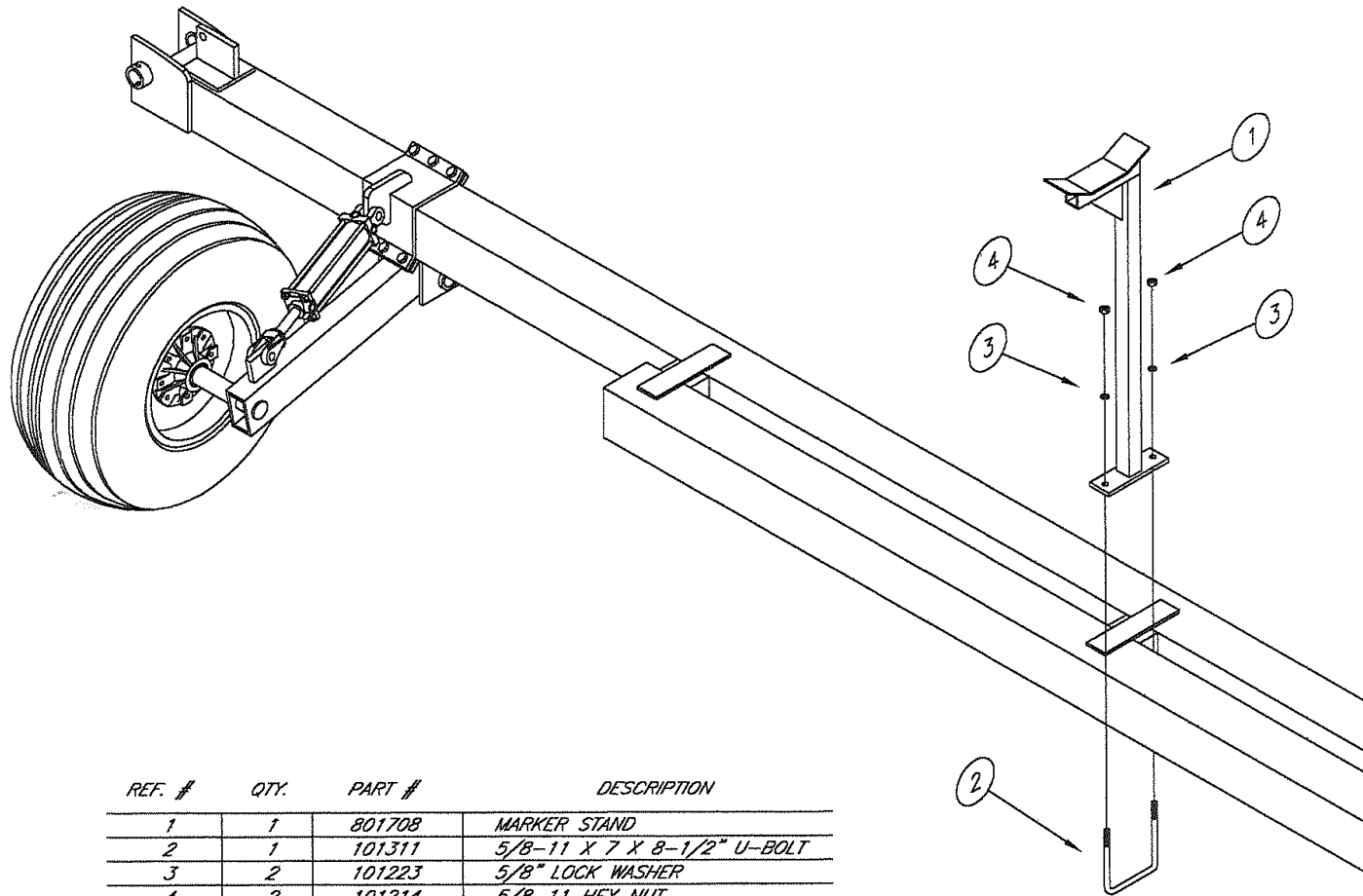


LEFT INNER/MIDDLE MARKER ARM ASSEMBLY



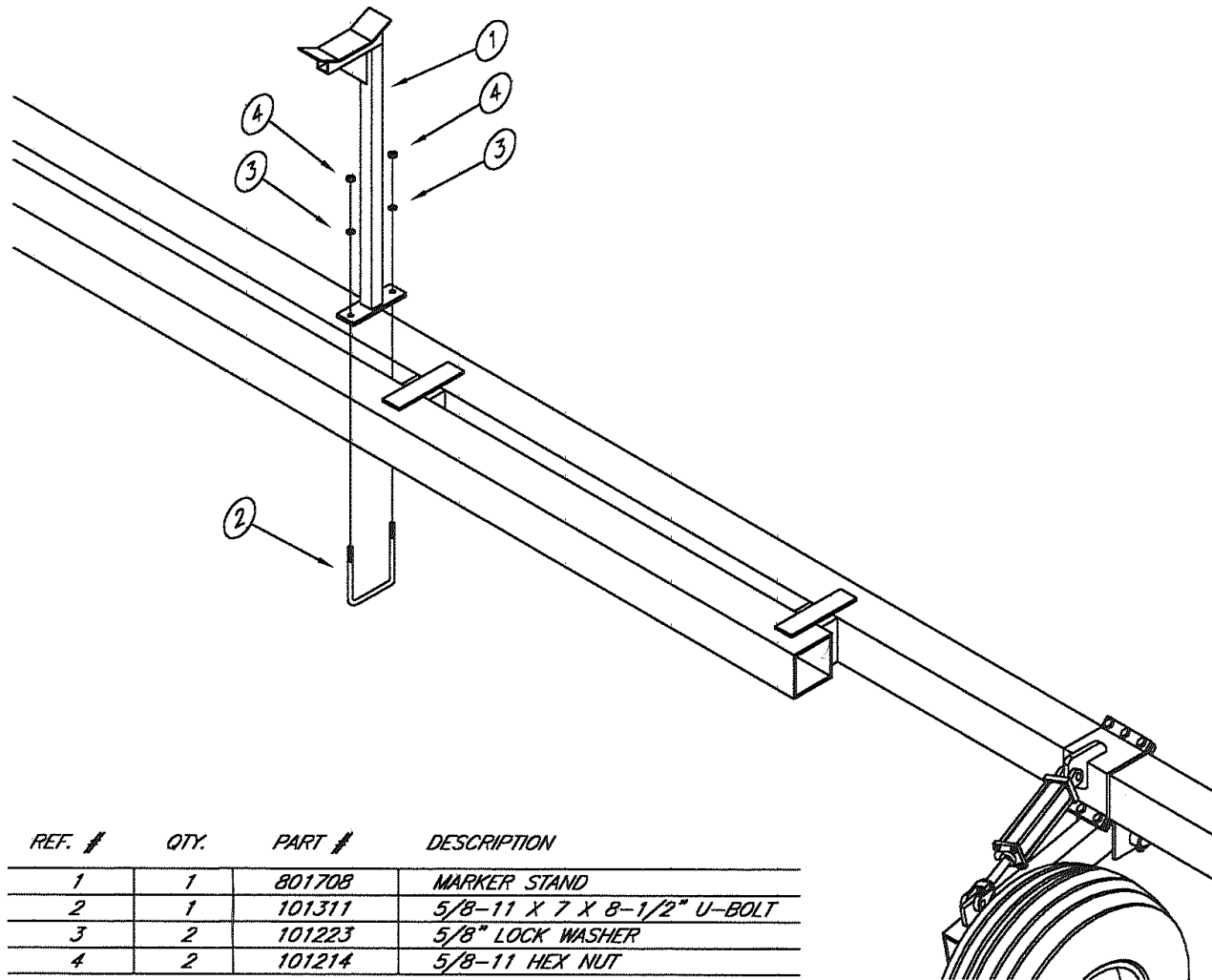
REF. #	QTY.	PART #	DESCRIPTION
1	1	801703	LEFT INNER MARKER ARM
2	1	801705	LEFT MIDDLE MARKER ARM
3	1	801707	LEFT MARKER WHEEL ARM
4	1	400202	1/4 X 5 X 4-1/2" BACKER PLATE
5	1	602133	#2.00 X 10-1/2" HINGE PIN
6	1	602216	#2.00 X 12-3/4" HINGE PIN
7	1	301110	5.30-12 2 PLY TIRE & HUB ASSEMBLY
8	4	301150	1/2-20 UNF X 1" LUG BOLT
9	2	101152	1/2-13 X 3-1/2" HEX BOLT
10	2	101457	1/2-13 TOPLOCK NUT
11	4	101131	3/8-16 X 4" HEX BOLT
12	4	101220	3/8" LOCK WASHER
13	4	101211	3/8-16 HEX NUT

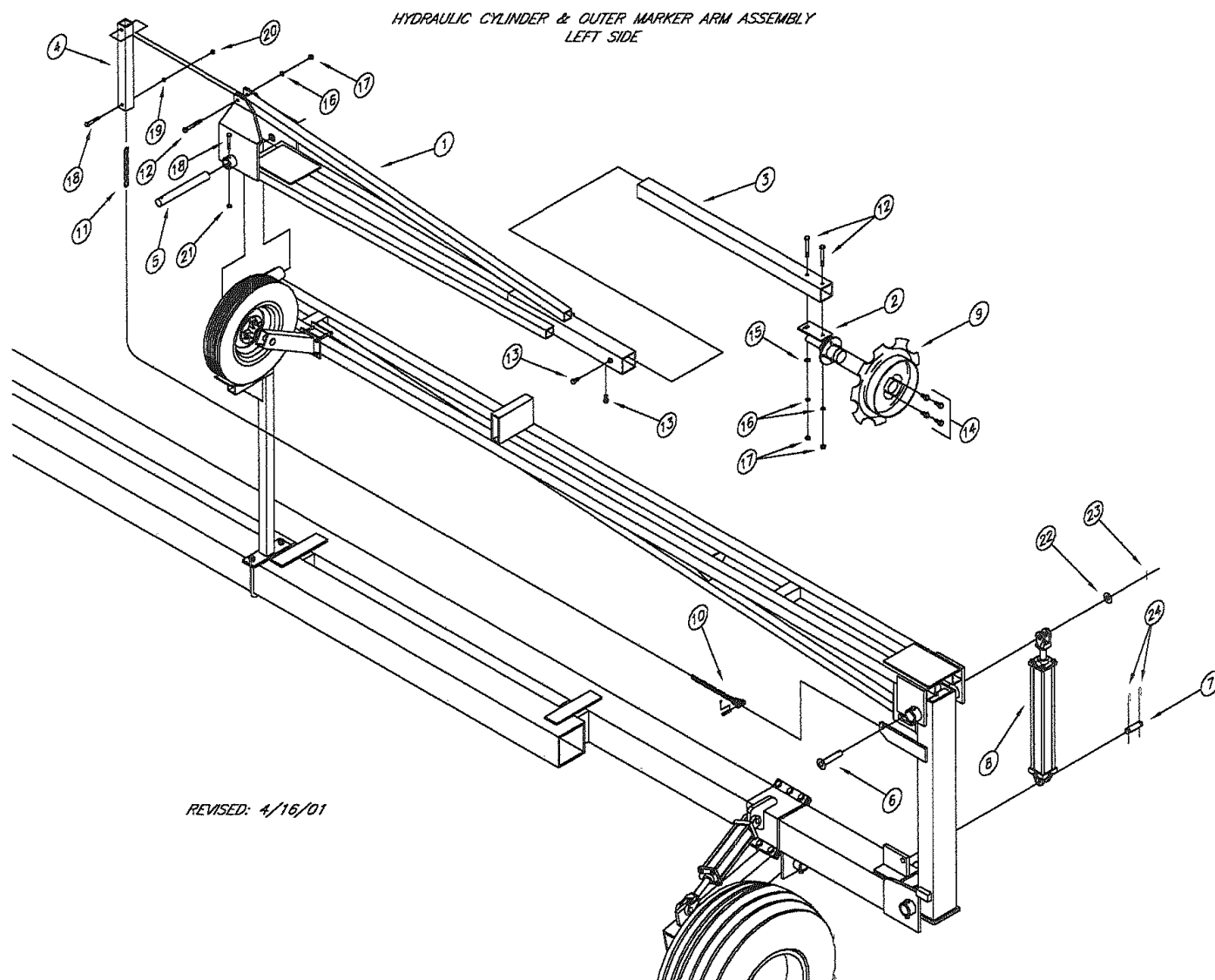
RIGHT MARKER STAND ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801708	MARKER STAND
2	1	101311	5/8-11 X 7 X 8-1/2" U-BOLT
3	2	101223	5/8" LOCK WASHER
4	2	101214	5/8-11 HEX NUT

LEFT MARKER STAND ASSEMBLY





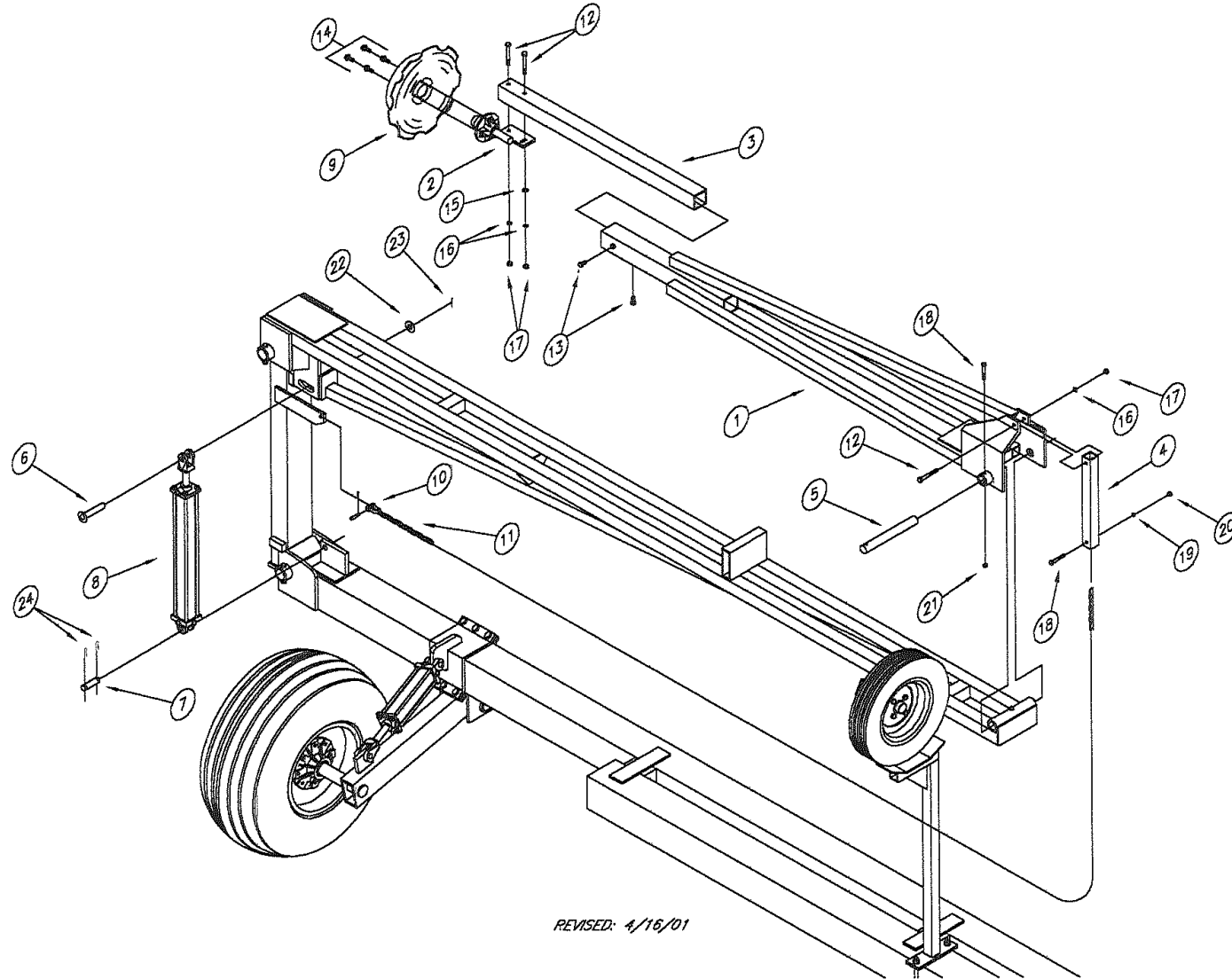
*HYDRAULIC CYLINDER & OUTER MARKER ARM ASSEMBLY
LEFT SIDE*

<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>	<i>REVISED: 2/5/01</i>
1	1	801710	LEFT OUTER MARKER ARM	
2	1	400072	LEFT DISC ADJUSTING ASSEMBLY	
3	1	400119	3.5 X 3.5 X 3/16 X 48" OUTER ARM TUBE	
4	1	400203	2 X 2 X 3/16 X 19" CHAIN TUBE	
5	1	602192	Ø1.50 X 12-3/4" HINGE PIN	
6	1	602193	Ø1.00 X 5-1/4" WELDED CYLINDER PIN	
7	1	602136	Ø1.00 X 3-5/8" CYLINDER PIN	
8	1	204008	3 X 24" HYDRAULIC CYLINDER	
9	1	400226	18" NOTCHED DISC BLADE W/ DEPTH BAND	
10	1	101267	CHAIN CLEVIS ASSEMBLY	
11	1	101423	1/4" CHAIN - 14-1/2'	
12	3	101153	1/2-13 X 4" HEX BOLT	
13	2	101147	1/2-13 X 1" HEX BOLT	
14	4	301193	1/2-20 X 1-1/4" WHIZ BOLT	
15	1	101231	1/2" FLAT WASHER	
16	3	101222	1/2" LOCK WASHER	
17	3	101213	1/2-13 HEX NUT	
18	2	101140	7/16-14 X 3" HEX BOLT	
19	1	101221	7/16" LOCK WASHER	
20	1	101212	7/16-14 HEX NUT	
21	1	101456	7/16-14 TOPLOCK NUT	
22	1	101235	1" FLAT WASHER	
23	1	101246	3/16 X 1-1/2" COTTER PIN	
24	2	101250	1/8 X 2-1/2" HAIR PIN	

MARKERS COME
STANDARD WITH THE
18" NOTCHED BLADES
WITH DEPTH BANDS.
TO ORDER 18"
NOTCHED BLADES
WITHOUT THE DEPTH
BANDS, USE PART
NUMBER 400227.

NOTE THAT THE LEFT
MARKER DISC
ASSEMBLY INCLUDE THE
FOLLOWING:
801323 - LEFT
SPINDLE WELDMENT
310159 - 4 BOLT
HUB ASSEMBLY

HYDRAULIC CYLINDER & OUTER MARKER ARM ASSEMBLY
RIGHT SIDE



REVISED: 4/16/01

*HYDRAULIC CYLINDER & OUTER MARKER ARM ASSEMBLY
RIGHT SIDE*

<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>	<i>REVISED: 2/5/01</i>
1	1	801709	RIGHT OUTER MARKER ARM	
2	1	400006	RIGHT DISC ADJUSTING ASSEMBLY	
3	1	400119	3.5 X 3.5 X 3/16 X 48" OUTER ARM TUBE	
4	1	400203	2 X 2 X 3/16 X 19" CHAIN TUBE	
5	1	602192	Ø1.50 X 12-3/4" HINGE PIN	
6	1	602193	Ø1.00 X 5-1/4" WELDED CYLINDER PIN	
7	1	602136	Ø1.00 X 3-5/8" CYLINDER PIN	
8	1	204008	3 X 24" HYDRAULIC CYLINDER	
9	1	400226	18" NOTCHED DISC BLADE W/ DEPTH BAND	
10	1	101267	CHAIN CLEVIS ASSEMBLY	
11	1	101423	1/4" CHAIN - 14-1/2'	
12	3	101153	1/2-13 X 4" HEX BOLT	
13	2	101147	1/2-13 X 1" HEX BOLT	
14	4	301193	1/2-20 X 1-1/4" WHIZ BOLT	
15	1	101231	1/2" FLAT WASHER	
16	3	101222	1/2" LOCK WASHER	
17	3	101213	1/2-13 HEX NUT	
18	2	101140	7/16-14 X 3" HEX BOLT	
19	1	101221	7/16" LOCK WASHER	
20	1	101212	7/16-14 HEX NUT	
21	1	101456	7/16-14 TOPLOCK NUT	
22	1	101235	1" FLAT WASHER	
23	1	101246	3/16 X 1-1/2" COTTER PIN	
24	2	101250	1/8 X 2-1/2" HAIR PIN	

MARKERS COME
STANDARD WITH THE
18" NOTCHED BLADES
WITH DEPTH BANDS.
TO ORDER 18"
NOTCHED BLADES
WITHOUT THE DEPTH
BANDS, USE PART
NUMBER 400227.

NOTE THAT THE RIGHT
MARKER DISC
ASSEMBLY INCLUDE THE
FOLLOWING:
801324 - RIGHT
SPINDLE WELDMENT
310159 - 4 BOLT
HUB ASSEMBLY

60' 7200 NH3 PLUMBING SCHEMATIC

ATTACH THE HOSE BARBS (ITEM #4) TO 3/8" EVA HOSES.

NOTE THAT THE 3/8" EVA HOSES ARE SOLD BY THE FOOT AND MAY BE ORDERED USING PART # 700120.

REF. #	QTY.	PART #	DESCRIPTION
1	2	700272	ANHYDROUS MANIFOLD - 14 OUTLET
2	2	400142	MANIFOLD BRACKET
3	2	700256	1" ST. ELBOW - BLACK PIPE
4	24	700277	1/4" NPT X 3/8" HOSE BARB
5	2	700274A	1" X 120" AA HOSE
6	2	101147	1/2-13 X 1" HEX BOLT
7	1	101152	1/2-13 X 3-1/2" HEX BOLT
8	1	101231	1/2" FLAT WASHER
9	3	101222	1/2" LOCK WASHER
10	1	101213	1/2-13 HEX NUT
11	1	700274	1-1/4" AA HOSE X 32" LONG
12	1	700276	1-1/4" QUICK-COUPLER ASSEMBLY
13	1	700278	1-1/4" MALE COUPLER TIP (NH3)
14	2	101329	3/8-16 X 7 X 8-1/2" U-BOLT
15	4	101220	3/8" LOCK WASHER
16	4	101211	3/8-16 HEX NUT
17	2	700254	1/4" MNPT X 1/4" FNPT BLACK ELBOW
18	2	700235A	2.5" NH3 GAUGE 0-150 PSI
19	2	700211	1/4" NPT NH3 MANIFOLD PLUG
20	48	700126	3/8-1/2" STAIN. HOSE CLAMP (NOT SHOWN)

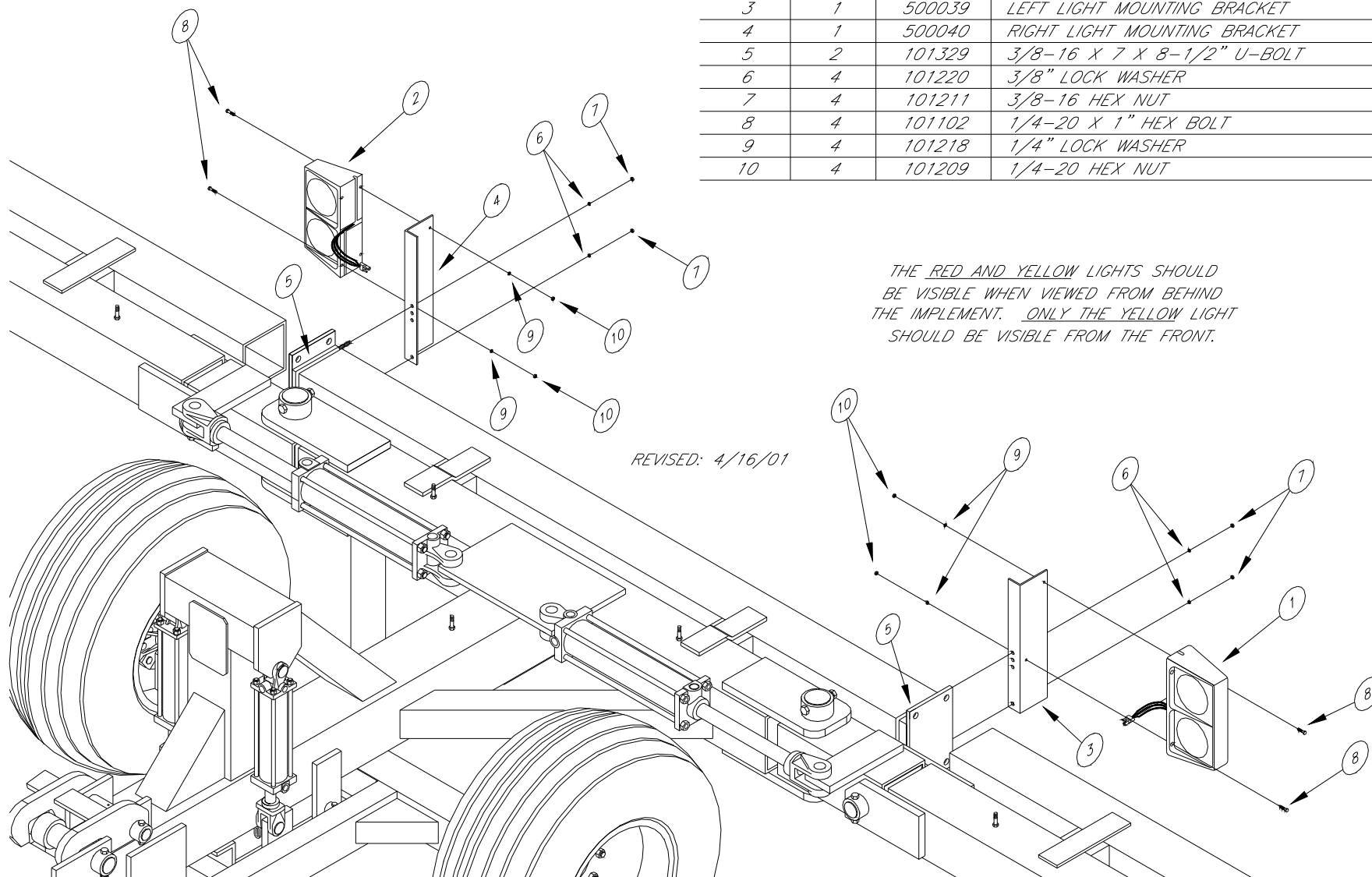
ATTACH THE MANIFOLD BRACKETS APPROXIMATELY 55" FROM THE END OF THE WING TO THE EDGE OF THE BRACKET.

REVISED: 4/16/01

LIGHT ATTACHMENT

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

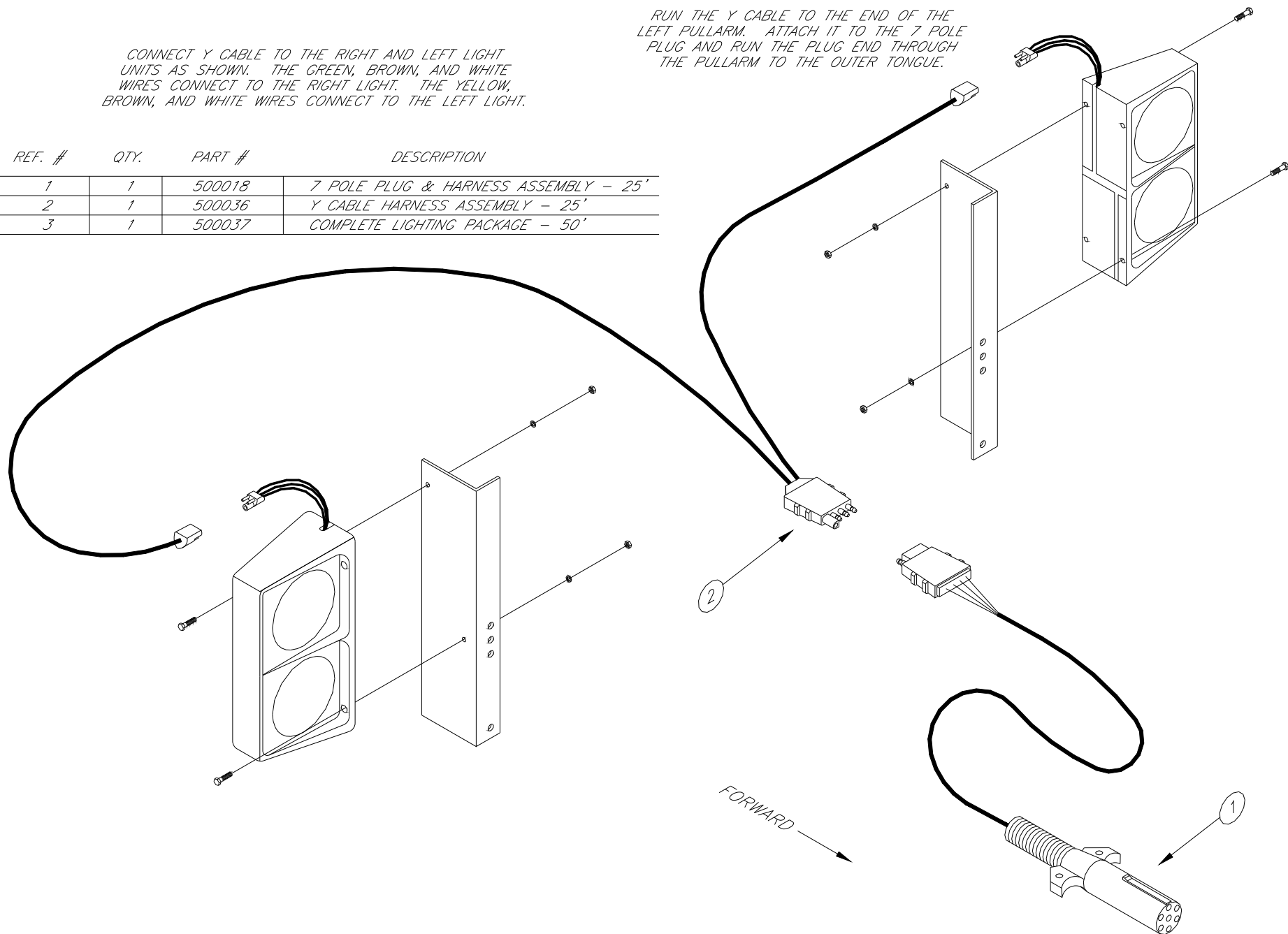
REF. #	QTY.	PART #	DESCRIPTION
1	1	500016	LEFT HAND LIGHT UNIT
2	1	500015	RIGHT HAND LIGHT UNIT
3	1	500039	LEFT LIGHT MOUNTING BRACKET
4	1	500040	RIGHT LIGHT MOUNTING BRACKET
5	2	101329	3/8-16 X 7 X 8-1/2" U-BOLT
6	4	101220	3/8" LOCK WASHER
7	4	101211	3/8-16 HEX NUT
8	4	101102	1/4-20 X 1" HEX BOLT
9	4	101218	1/4" LOCK WASHER
10	4	101209	1/4-20 HEX NUT



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.

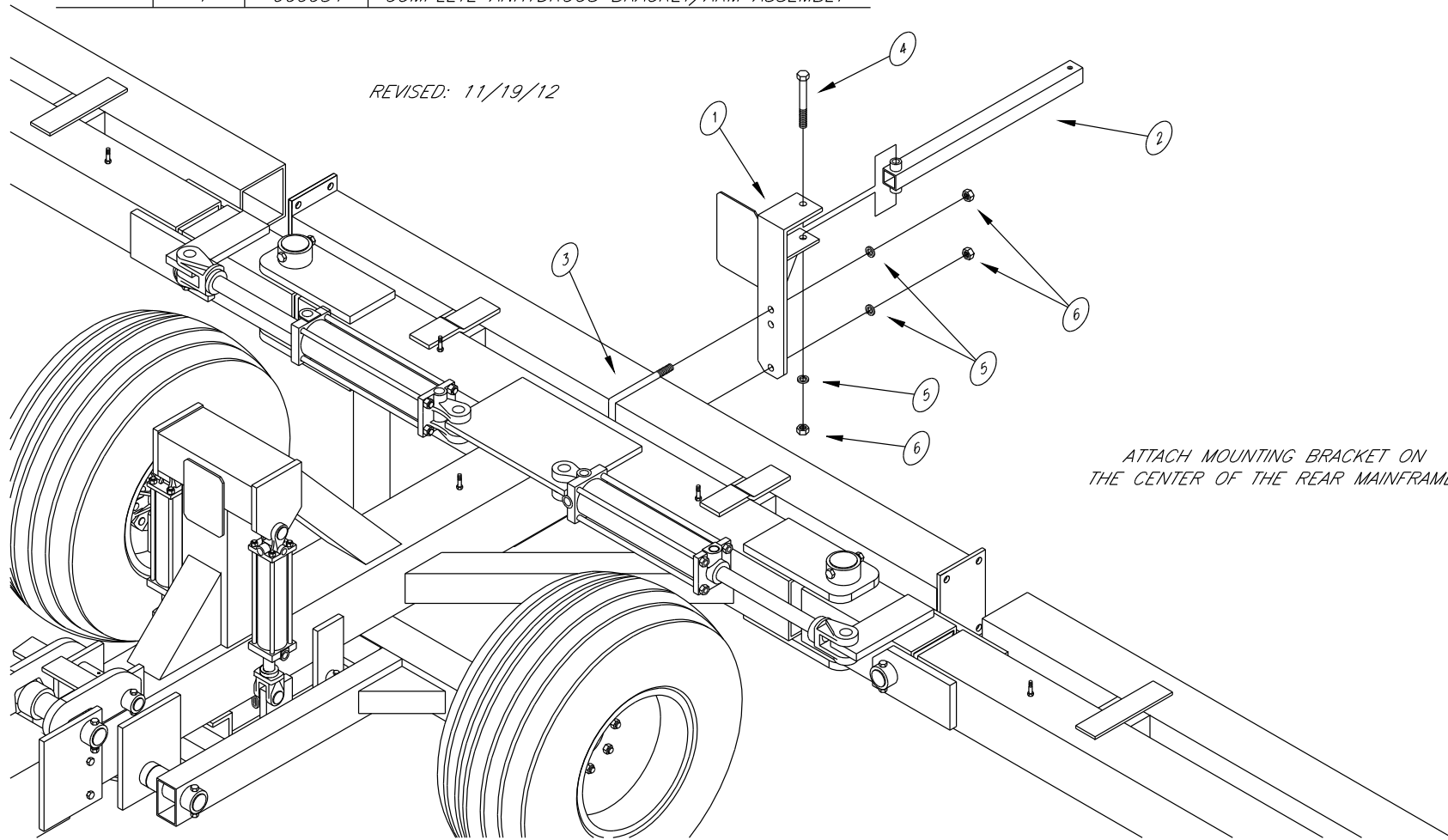
RUN THE Y CABLE TO THE END OF THE LEFT PULLARM. ATTACH IT TO THE 7 POLE PLUG AND RUN THE PLUG END THROUGH THE PULLARM TO THE OUTER TONGUE.

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'

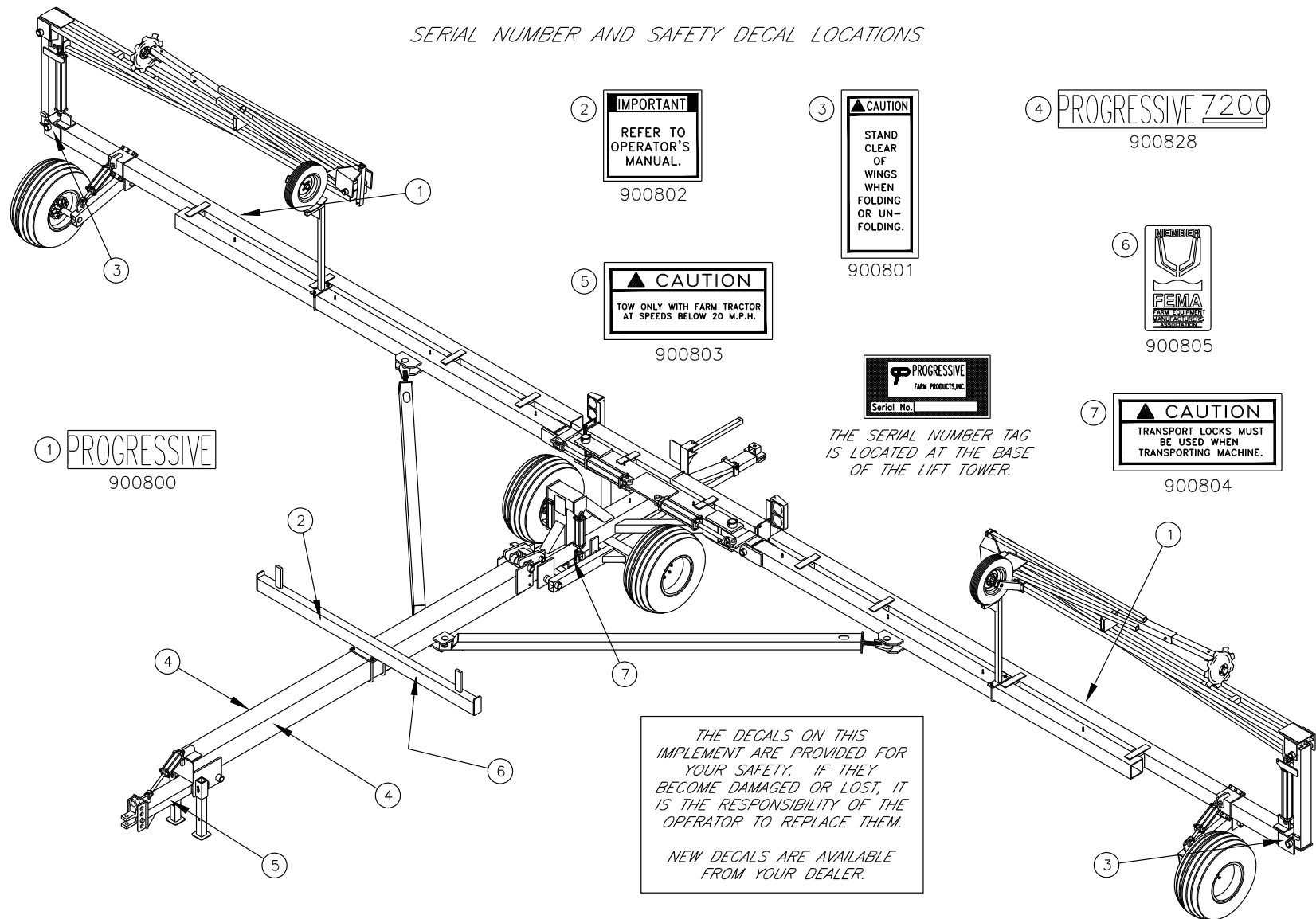


NH3 SWING ARM/MOUNTING BRACKET ASSEMBLY

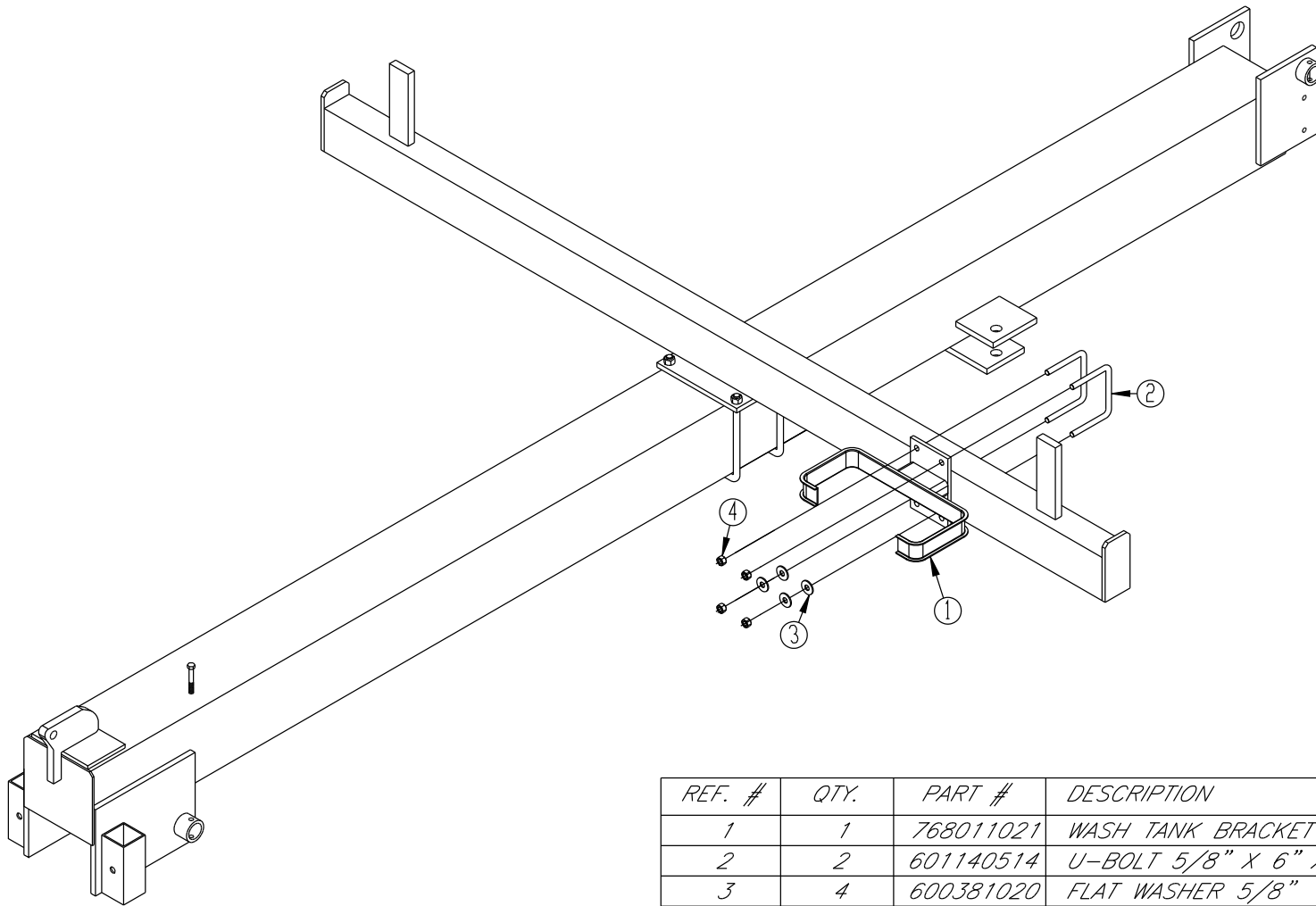
REF. #	QTY.	PART #	DESCRIPTION
1	1	801683	SWING ARM MOUNTING BRACKET
2	1	801276	NH3 SWING ARM WELDMENT
3	1	101386	3/4-10 X 7 X 8-1/2" U-BOLT
4	1	101179	3/4-10 X 6" HEX BOLT
5	3	101224	3/4" LOCK WASHER
6	3	101215	3/4-10 HEX NUT
-	1	900084	COMPLETE ANHYDROUS BRACKET/ARM ASSEMBLY



SERIAL NUMBER AND SAFETY DECAL LOCATIONS



ATTACHING THE WASH TANK BRACKET WELDMENT

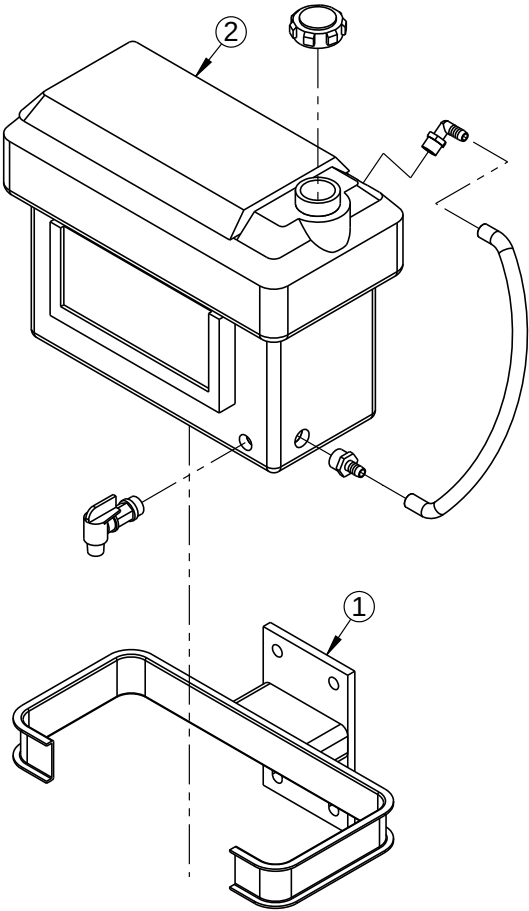


REF. #	QTY.	PART #	DESCRIPTION
1	1	768011021	WASH TANK BRACKET WELDMENT
2	2	601140514	U-BOLT 5/8" X 6" X 5-5/8"
3	4	600381020	FLAT WASHER 5/8"
4	4	600366031	STOVER LOCKNUT TYPE C - 5/8" -UNC

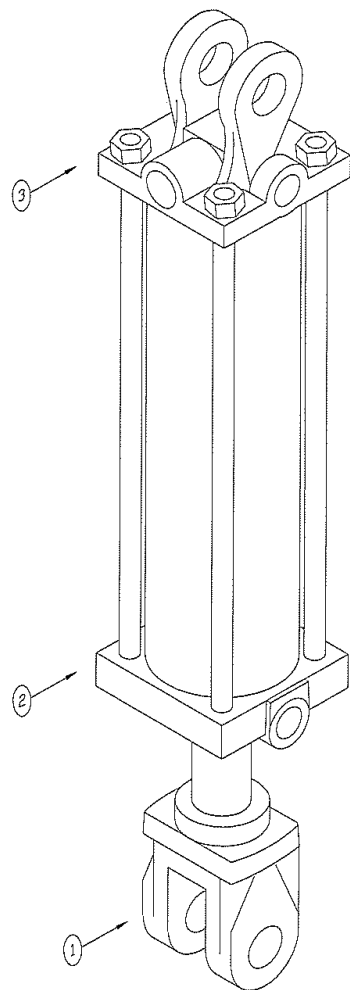
NOTE: POSITION BRACKET SO IT DOES NOT INTERFERE WITH ROW UNITS

ATTACHING THE WASH TANK

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

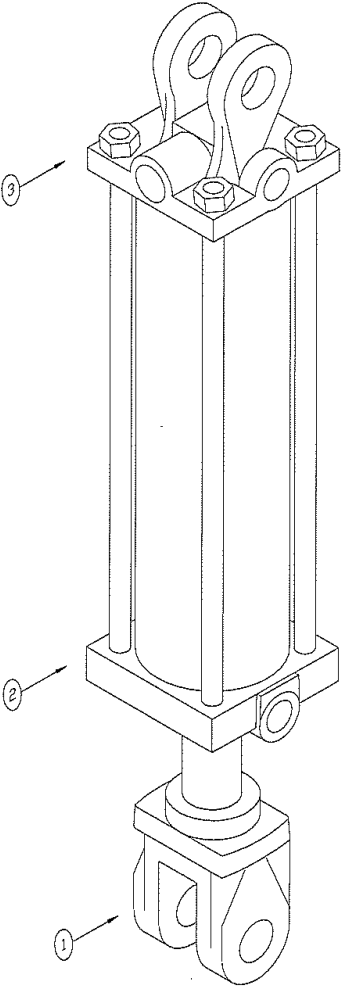


3-1/2 X 10" REPHASE CYLINDER



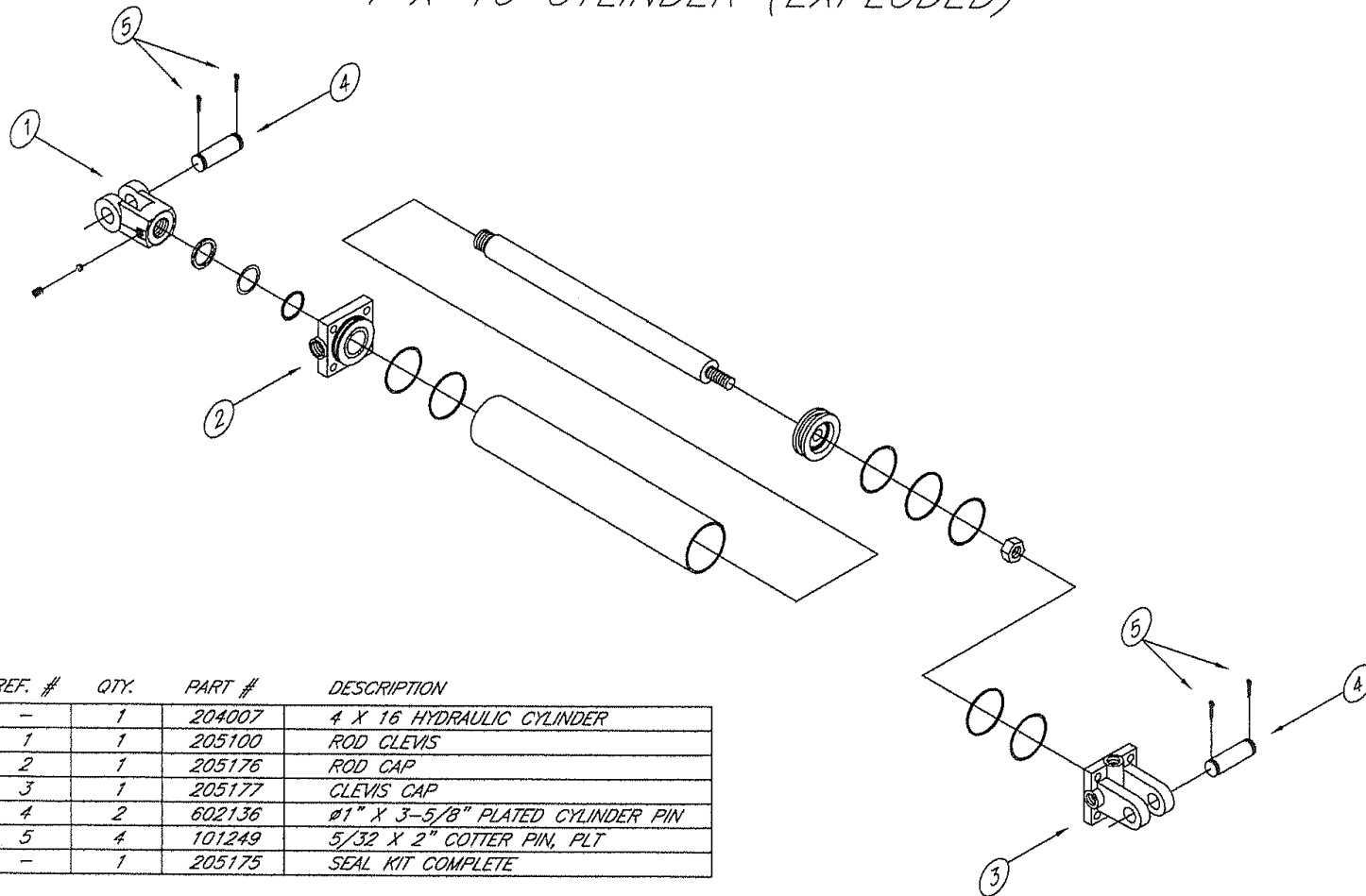
ITEM	QTY	PART#	DESCRIPTION
1	1	205184	ROD CLEVIS
2	1	205185	ROD CAP
3	1	205186	CLEVIS CAP
-	1	204016	3-1/2X 10" REPHASE CYLINDER
-	1	205179	SEAL KIT

3-3/4 X 10" REPHASE CYLINDER



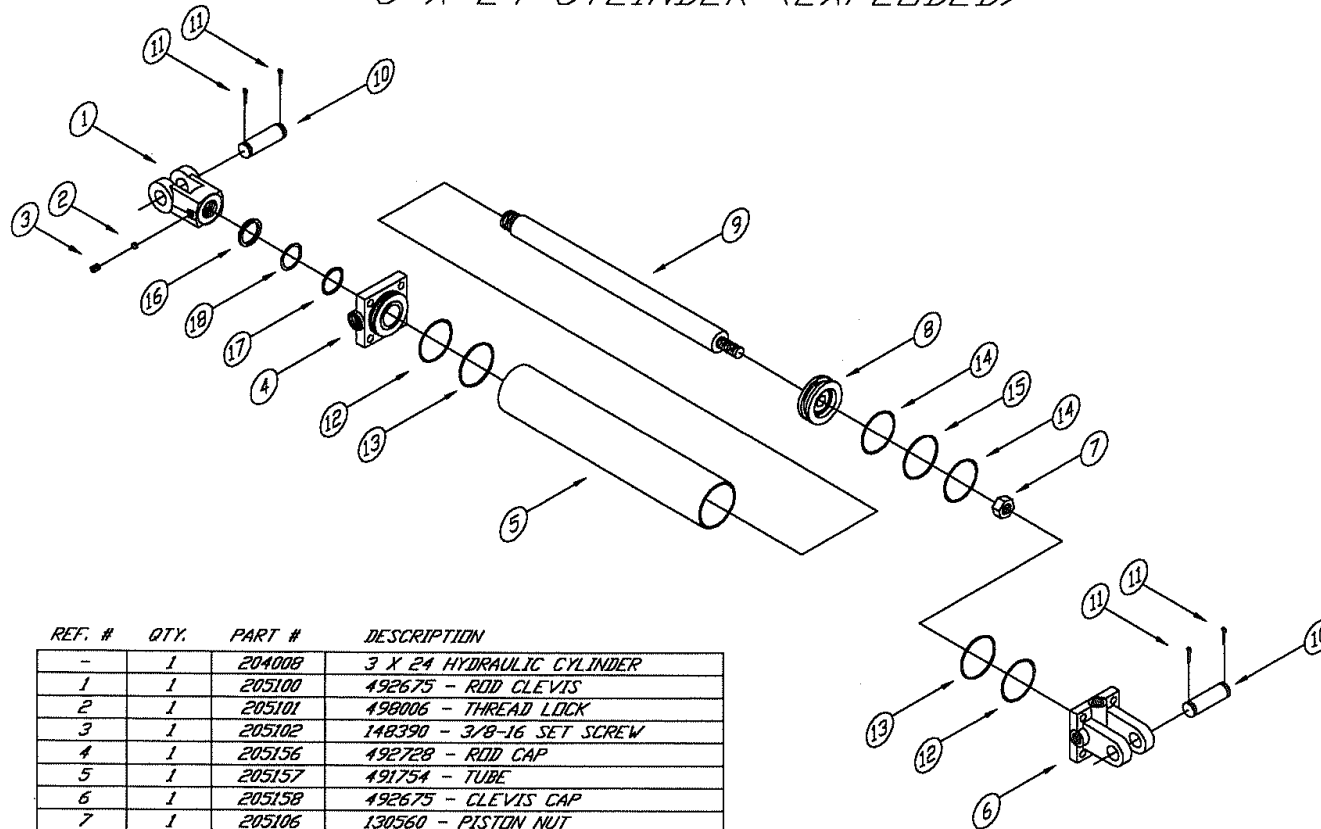
ITEM	QTY	PART#	DESCRIPTION
1	1	205187	ROD CLEVIS
2	1	205188	ROD CAP
3	1	205189	CLEVIS CAP
-	1	204017	3-3/4 X 10" REPHASE CYLINDER
-	1	205180	SEAL KIT

LION 2500 SERIES 4 X 16 CYLINDER (EXPLODED)



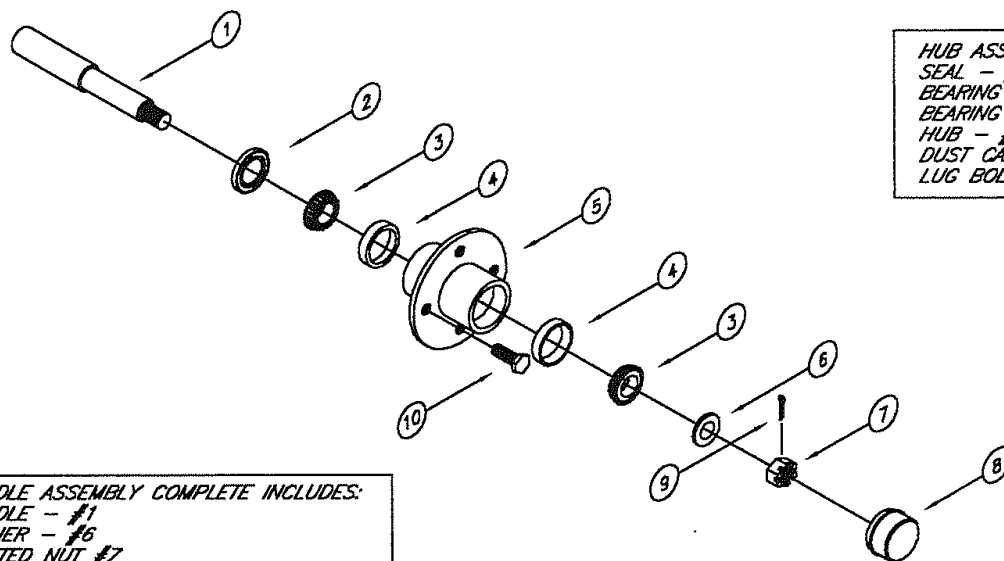
REF. #	QTY.	PART #	DESCRIPTION
-	1	204007	4 X 16 HYDRAULIC CYLINDER
1	1	205100	ROD CLEVIS
2	1	205176	ROD CAP
3	1	205177	CLEVIS CAP
4	2	602136	Ø1" X 3-5/8" PLATED CYLINDER PIN
5	4	101249	5/32 X 2" COTTER PIN, PLT
-	1	205175	SEAL KIT COMPLETE

LION 3000 TC SERIES 3 X 24 CYLINDER (EXPLODED)



REF. #	QTY.	PART #	DESCRIPTION
-	1	204008	3 X 24 HYDRAULIC CYLINDER
1	1	205100	492675 - ROD CLEVIS
2	1	205101	498006 - THREAD LOCK
3	1	205102	148390 - 3/8-16 SET SCREW
4	1	205156	492728 - ROD CAP
5	1	205157	491754 - TUBE
6	1	205158	492675 - CLEVIS CAP
7	1	205106	130560 - PISTON NUT
8	1	205159	494719 - PISTON
9	1	205160	492631 - 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



HUB ASSEMBLY COMPLETE INCLUDES:
 SEAL - #2
 BEARING CONES - #3 (2)
 BEARING CUPS - #4 (2)
 HUB - #5
 DUST CAP - #8
 LUG BOLTS - #10 (4)

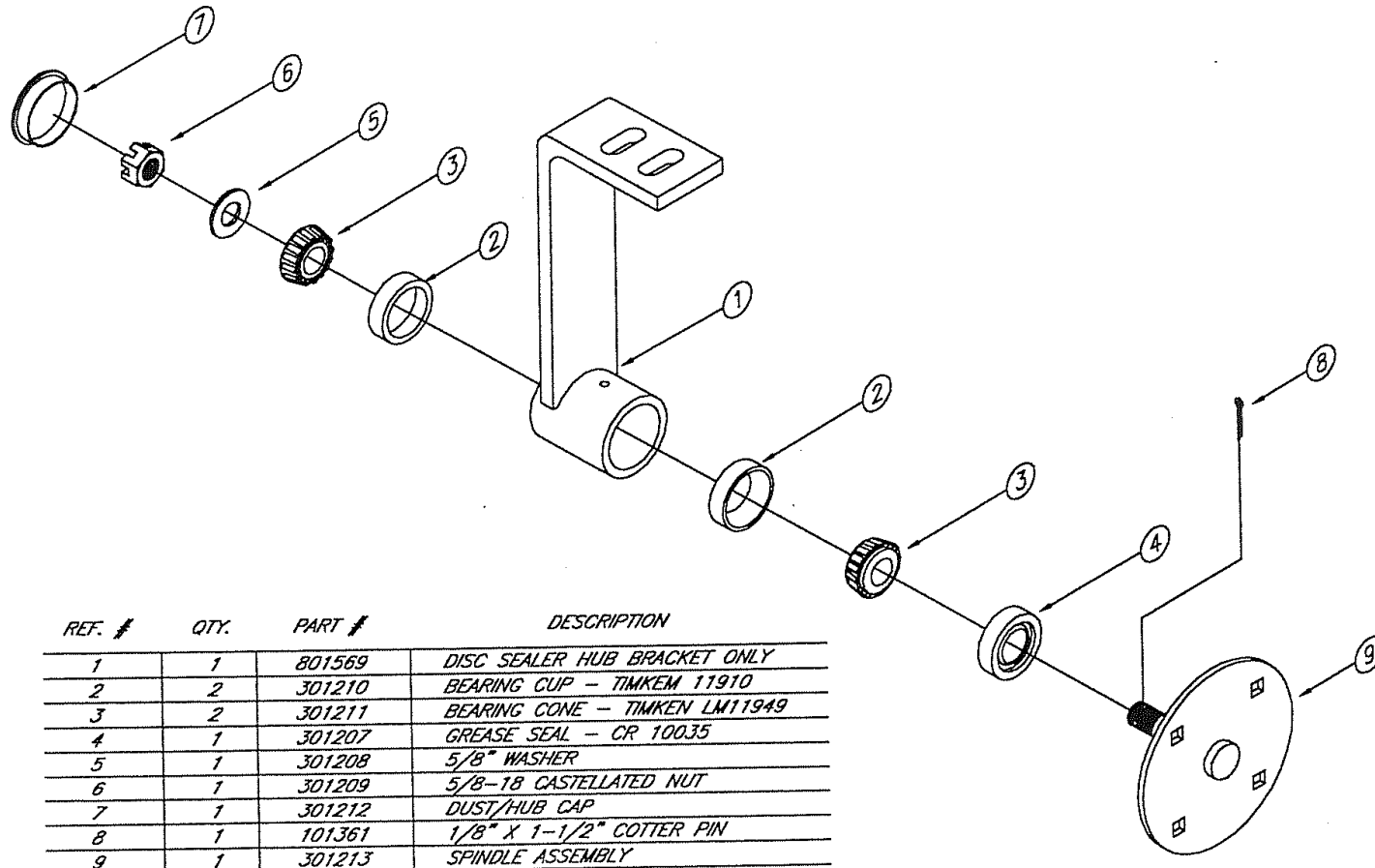
SPINDLE ASSEMBLY COMPLETE INCLUDES:
 SPINDLE - #1
 WASHER - #6
 SLOTTED NUT - #7
 COTTER PIN - #9

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	301145	SPINDLE - #1.25" X 8.5"
2	1	301148	SEAL - CR 12437
3	2	301133	BEARING CONE - L44643
4	2	301138	BEARING CUP - L44610
5	1	301146	4 BOLT HUB - 4" BOLT CIRCLE
6	1	301142	WASHER - 1-1/2" O.D. X 13/16" T.D.
7	1	301153	SLOTTED NUT - 3/4-16UNF
8	1	301149	DUST CAP
9	1	301152	COTTER PIN - 5/32" X 1-3/4"
10	4	301150	LUG BOLT - 1/2-20 UNF X 1"
11	1	301163	SPINDLE ASSEMBLY - COMPLETE
12	1	301159	HUB ASSEMBLY - COMPLETE

REVISED: 2/21/00

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

HEAVY DUTY 4 BOLT HUB & SPINDLE

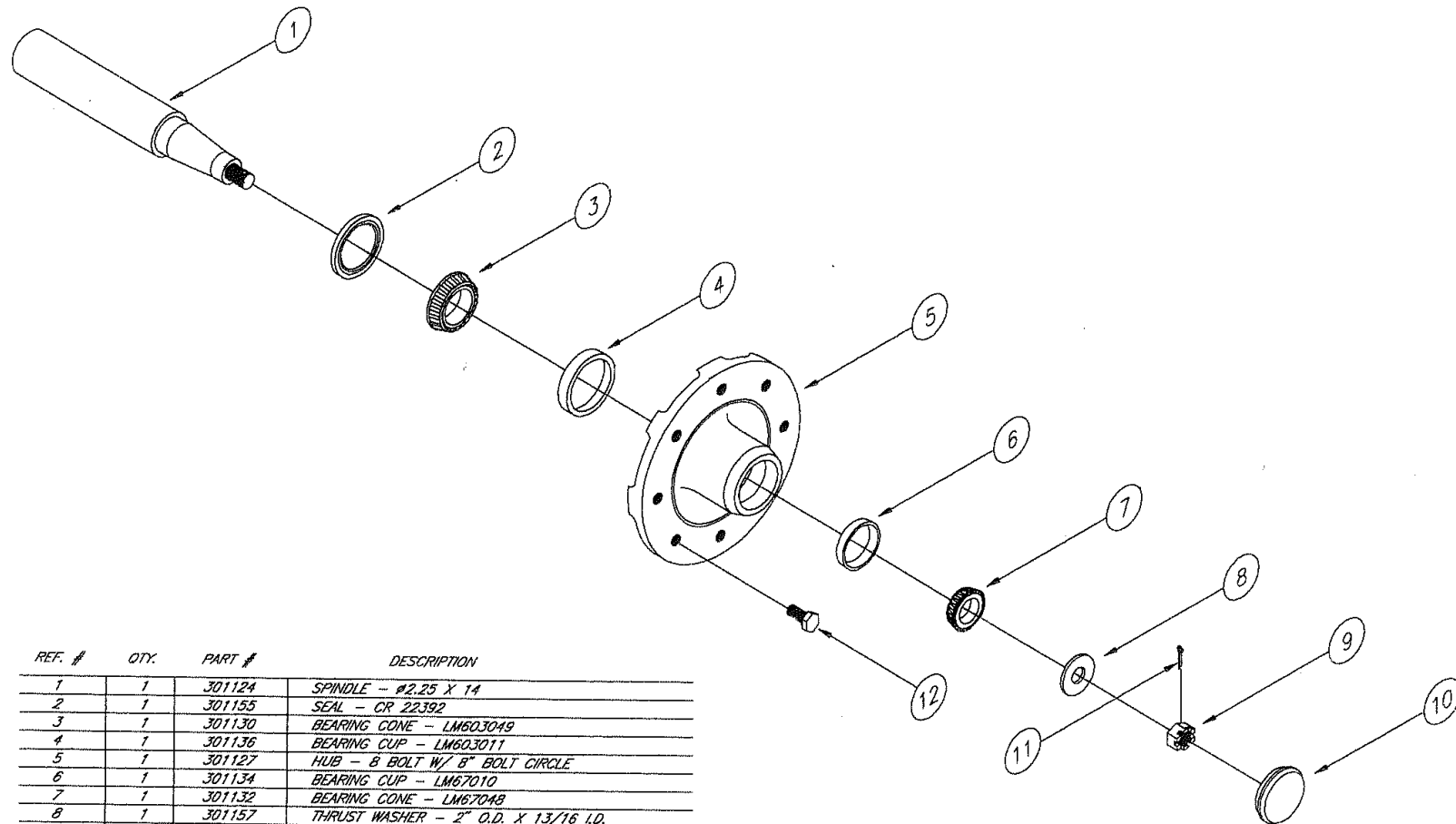
HUB ASSEMBLY COMPLETE INCLUDES:
 SEAL - 301183
 BEARING CONE - 301132
 BEARING CUP - 301134
 HUB - 301182
 BEARING CUP - 301184
 BEARING CONE - 301185
 DUST CAP - 301186
 LUG BOLTS - 301150 (4)

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

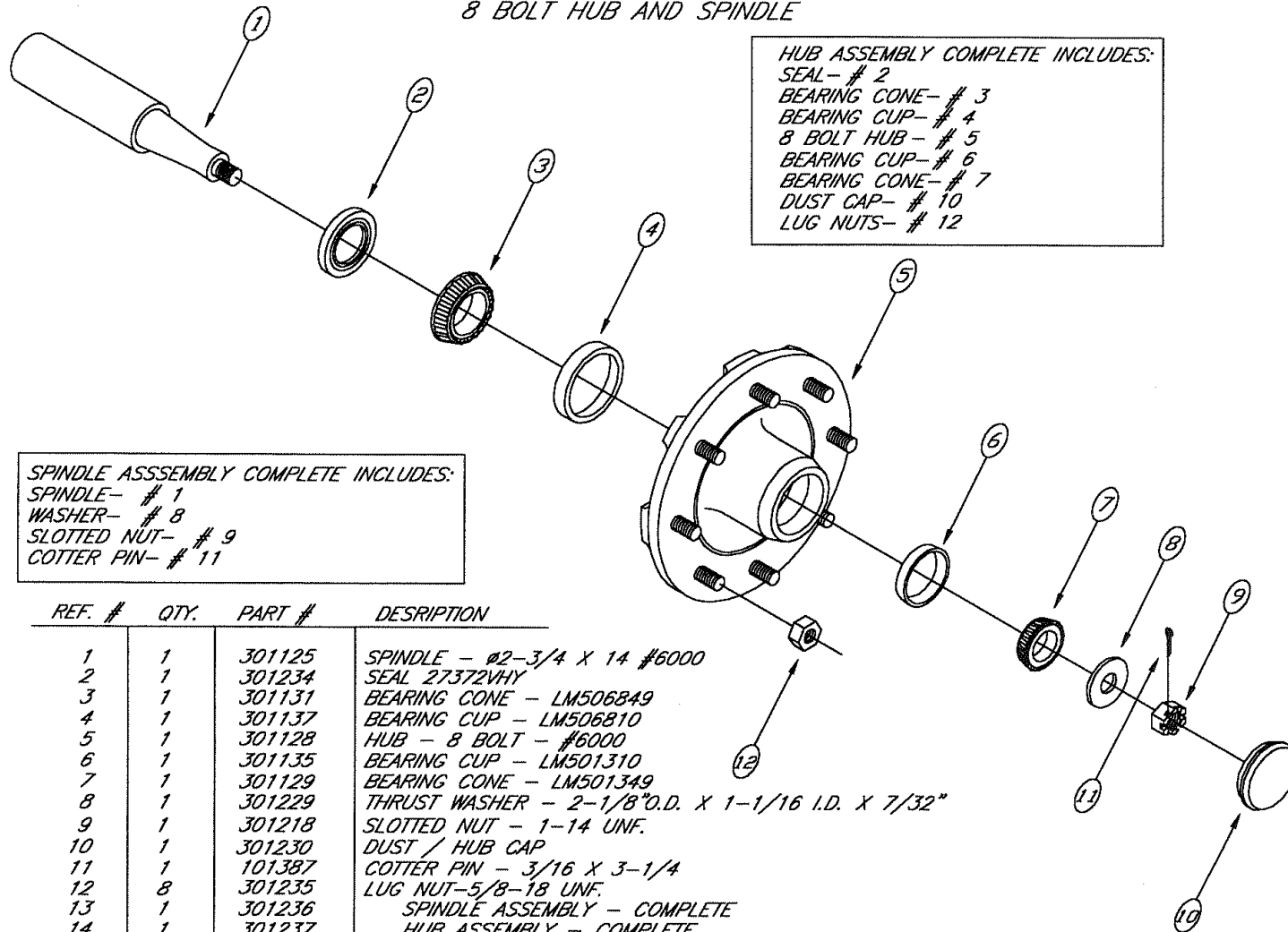
REVISED 08/08/93

8 BOLT HUB & SPINDLE ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	301124	SPINDLE - Ø2.25 X 14
2	1	301155	SEAL - CR 22392
3	1	301130	BEARING CONE - LM603049
4	1	301136	BEARING CUP - LM603011
5	1	301127	HUB - 8 BOLT W/ 8" BOLT CIRCLE
6	1	301134	BEARING CUP - LM67010
7	1	301132	BEARING CONE - LM67048
8	1	301157	THRUST WASHER - 2" O.D. X 1 3/16 I.D.
9	1	301153	SLOTTED NUT - 3/4-16
10	1	301143	DUST CAP
11	1	301152	COTTER PIN - 5/32" X 1-3/4"
12	8	301151	LUG BOLT - 9/16-18 X 1-1/8"
-	1	301185	SPINDLE ASSEMBLY - COMPLETE
-	1	301161	HUB ASSEMBLY - COMPLETE

8 BOLT HUB AND SPINDLE



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.**