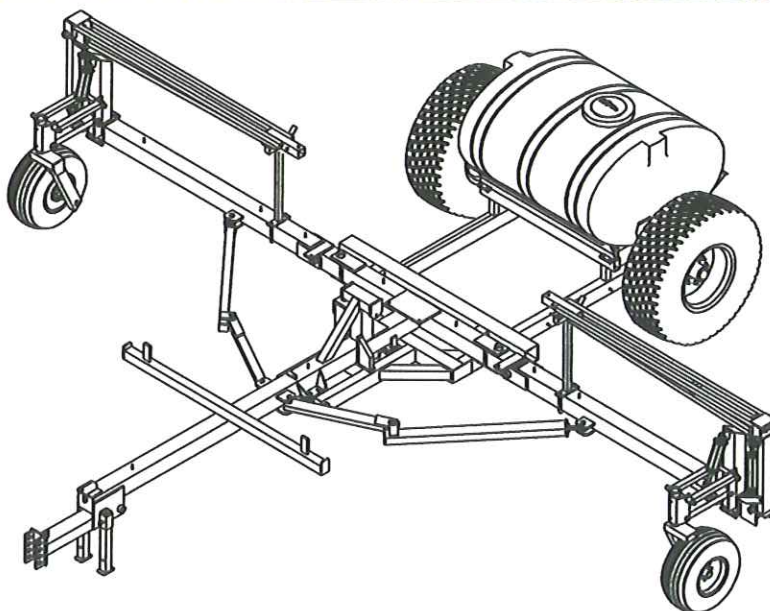




PROGRESSIVE
FARM PRODUCTS, INC.

OPERATOR'S MANUAL
30' 6200 FRONT-FOLD TOOLBAR
LIQUID FERTILIZER APPLICATION



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 on 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
9.5L x 15 – 8 ply	35 PSI
16.5 x 16.1 – 10 ply	36 PSI
18.4 x 26 – 10 ply	26 PSI
14.9R x 46 – 8* radial	68 PSI
5.30 x 12 – 6 ply	55 PSI
16 x 6.50 x 8 – 4 ply	28 PSI
4.80 x 8 – 4 ply	42 PSI

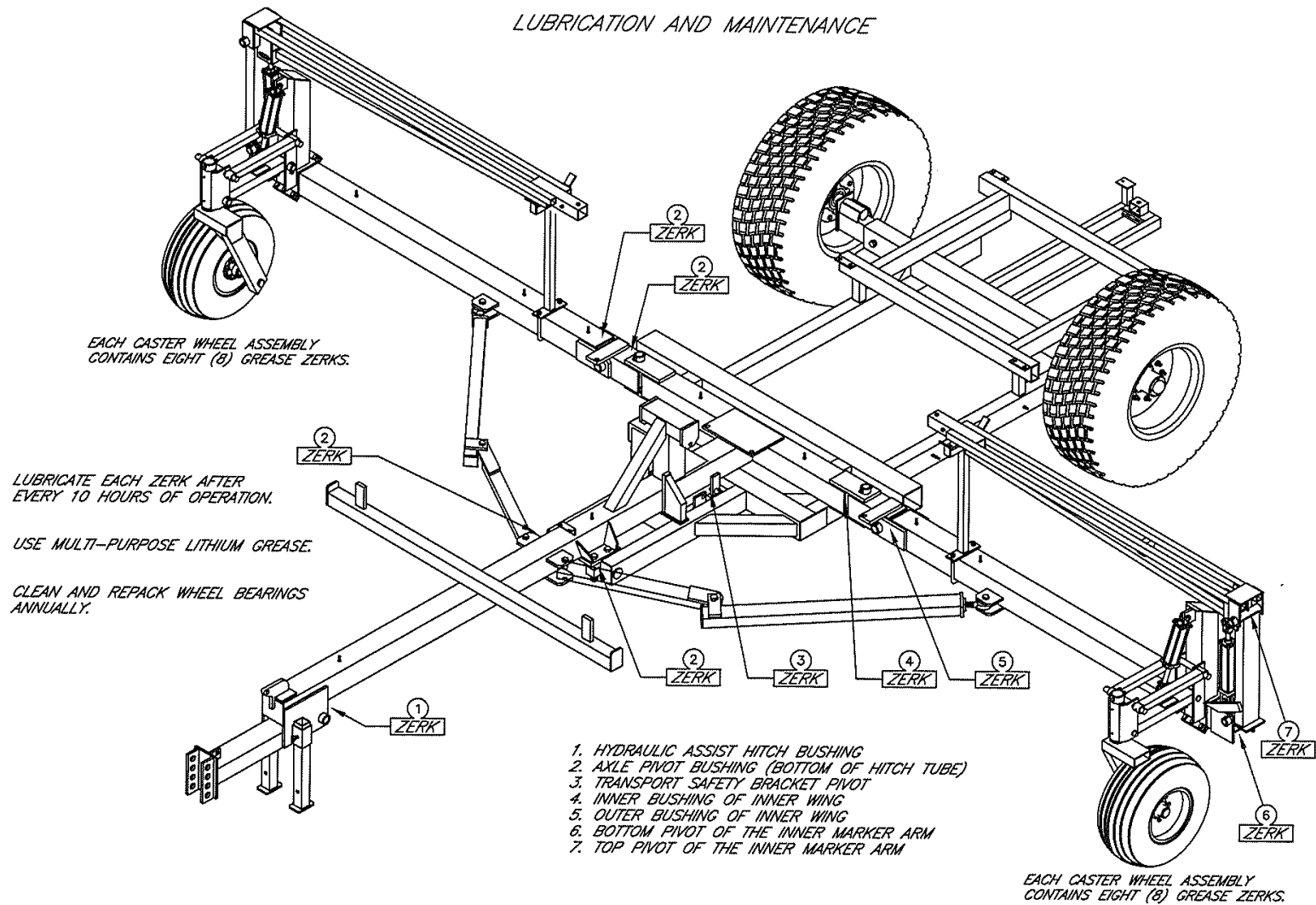
BOLT TORQUE

- 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.

LUBRICATION AND MAINTENANCE



Unfolding the 30' – 6200 for use

1. Using the main lift lever, lift the 6200 to a completely raised position. Continue holding the lever until the wing castor wheels are completely extended. **Note:** Always make sure the unit is raised completely before unfolding or else the transport safety cable could be stretched or snapped.
2. Raise the hydraulic transport hitch to a fully raised position and remove the transport lock. Store the transport lock on the adjustable hitch cylinder lug, located at the end of the main frame.
3. Lower the adjustable transport hitch until the cylinder is completely collapsed. This will allow the wings to raise out of the cradle.
4. Unfold the wings until the wing cylinders are completely extended.
5. After unfolding the 6200 for field operation, make sure the 2" dry fertilizer hoses are in a flat or level operating position. The rises and tight bends will hinder the flow of the fertilizer.
6. Place the yellow handle on the fold/sequence valve to the horizontal position. (This will allow for the operation of the markers).
7. Remove the transport lock from the dry drive hydraulic cylinder.

Folding the 30' - 6200 for transport

1. Using the main lift lever, lift the 6200 to a completely raised position.
 2. Place transport lock on the dry drive hydraulic cylinder.
Note: The transport lock must be used when transporting the 6200 down the road. It is possible the cylinder could retract, causing the drive wheel to come into contact with the transport tire. This could cause release of fertilizer or damage to the dry drive unit.
 3. Place the yellow handle on the fold/sequence selector valve to the vertical position.
 4. Lower the hydraulic transport hitch until cylinder is completely collapsed.
 5. Fold the wings of the 6200 until they are over the wing cradles.
 6. Lift the hydraulic transport hitch to a fully raised position.
 7. Reverse the main lift lever and pull up the wing castor wheels.
 8. Place the transport lock in the transport hitch hydraulic cylinder.
- The 6200 is now ready for road transport.

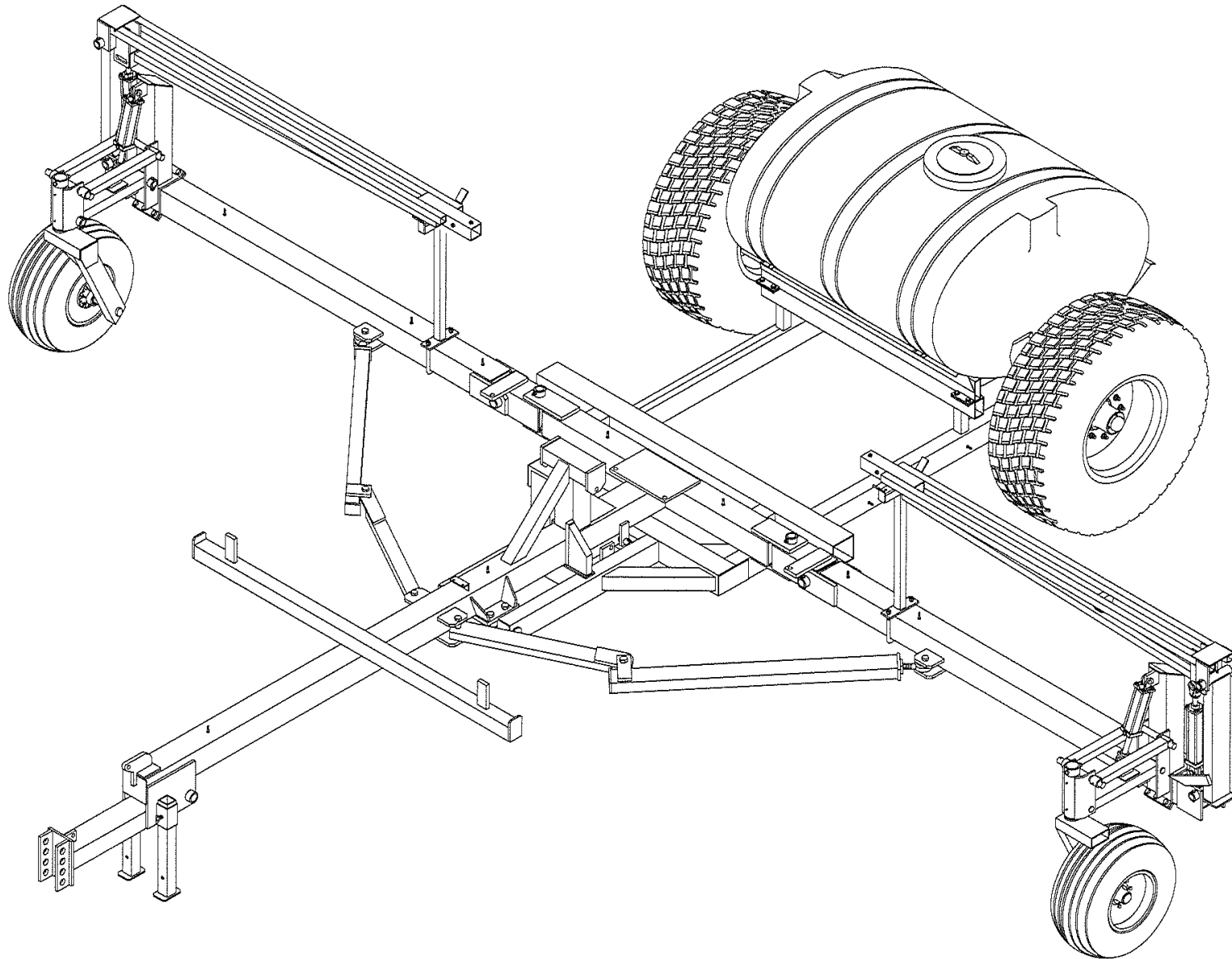
Set-up Instructions for Shank Mounts/Disk Sealers

Coulter and Shank Assembly

1. Select the proper exploded view drawings (Rigid Shank or Auto Reset Shank). Use hardware from bag #102053 for rigid shank or #102054 for auto reset for assembly and installation of shank mounts.
2. On rigid shank mounts, be sure to leave one inch of threads below the lock nut of the spring loaded T-Rod and a distance of 1-1/2" between the bottom of the "T" and the 3/4" nut.
3. On auto reset shanks, be sure to leave 1/2" of threads below the lock nut of the spring loaded T-Rod and a distance of 1-7/8" – 2" between the bottom of the "T" and the 3/4" nut. The spring should be compressed to approximately 9-1/2" to 9-3/4". **Note: These measurements are approximate. Field conditions may cause the need for further adjustments.**
4. Refer to the coulter spacing drawings in the back of the book for correct locations/placement of shank mounts.
5. Note there are left and right shank assemblies. When placing an assembly, notice that the shank will line up with either the left or right u-bolt.

Disk Sealers

1. Use hardware from bag #102029 to assemble and mount the disk sealers to the shank.
2. For Rigid Shank Mounts, measurement (when tightened down) should be approximately 15-1/2" from the back edge of the shank mount to the back side (at the bend) of the disk sealer shank mounting bracket (part #801694).
3. For Auto Reset Shank Mounts, measurement (when tightened down) should be approximately 6" from the back edge of the shank mount to the back side (at the bend) of the disk sealer shank mounting bracket (part #801694).
Note: Measurements are approximate. Adjustments may need to be made depending upon the depth the knives are running in the ground. For optimum performance, do not run the sealer blades any more than 2-3 inches in the ground.

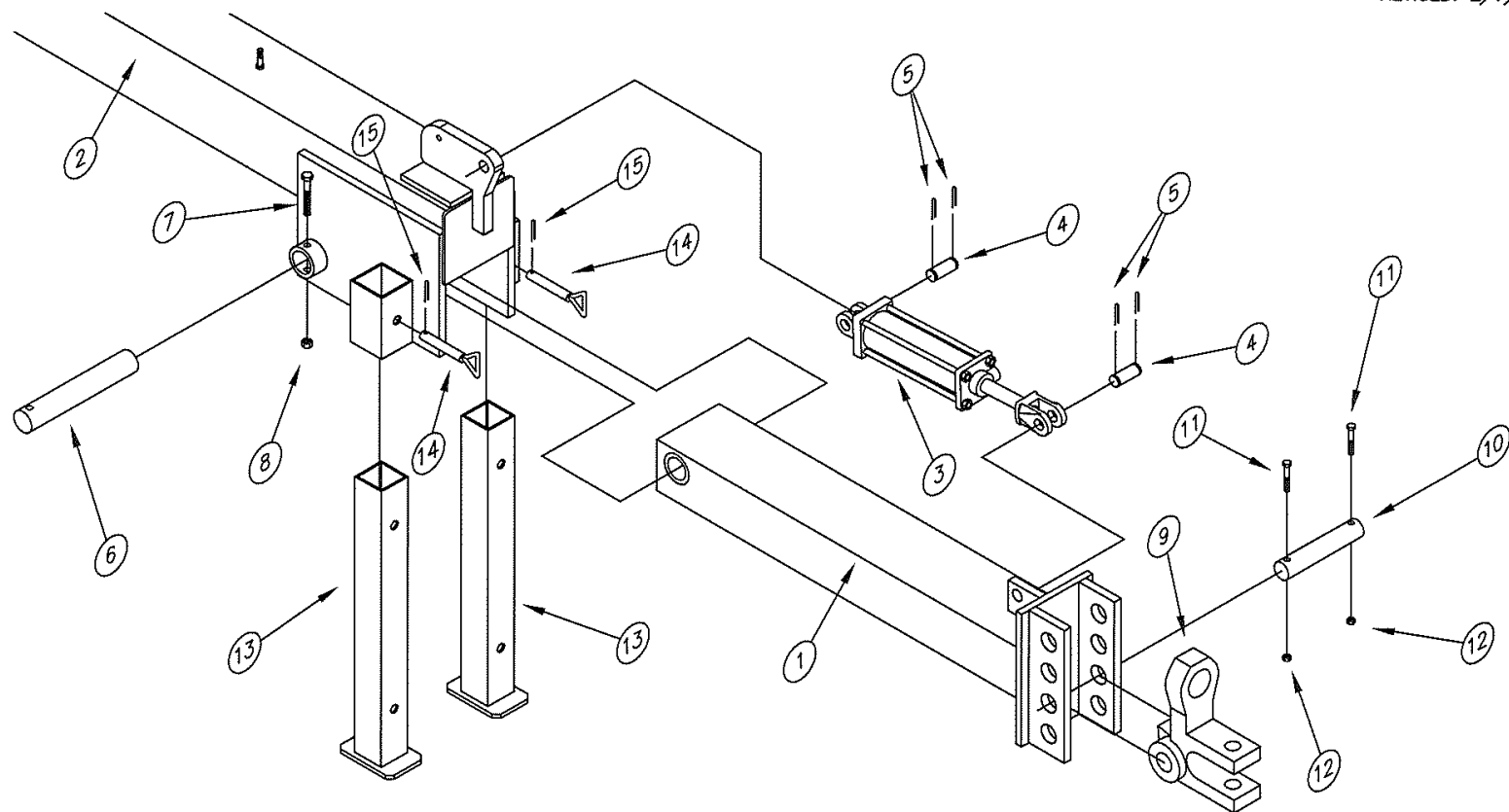


HYDRAULIC ASSIST HITCH ASSEMBLY

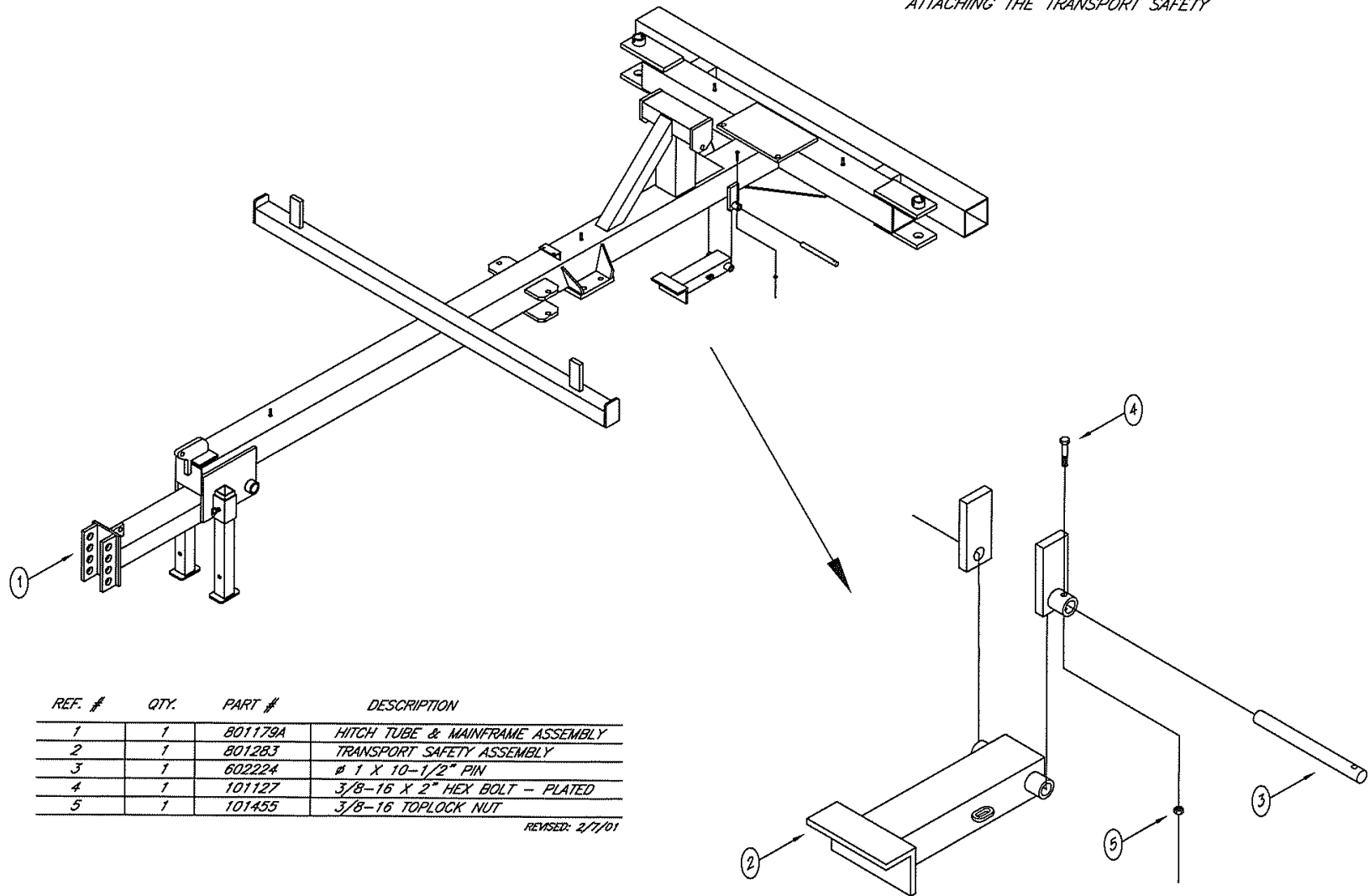
REF. #	QTY.	PART #	DESCRIPTION
1	1	801360	HYDRAULIC ASSIST HITCH
2	1	801179A	HITCH WELDMENT
3	1	204002	3 X 8" HYDRAULIC CYLINDER
4	2	602112	#1.00 X 3" CYLINDER PIN
5	4	101247	7/32 X 2" COTTER PIN
6	1	602180	#2.00 X 12" HINGE PIN
7	1	101152	1/2-13 X 3-1/2" HEX BOLT
8	1	101457	1/2-13 TOPLOCK NUT

REF. #	QTY.	PART #	DESCRIPTION
9	1	450016	COMBINATION CLEVIS
10	1	602178	Ø1.625 X 8-1/2" CLEVIS PIN
11	2	101128	3/8-16 X 2-1/2" HEX BOLT
12	2	101455	3/8-16 TOPLOCK NUT
13	2	801665	3 X 3" SQ. JACK STAND
14	2	801666	Ø.750 X 4-1/2" WELDED STAND PIN
15	2	101266	3/16" HAIR PIN

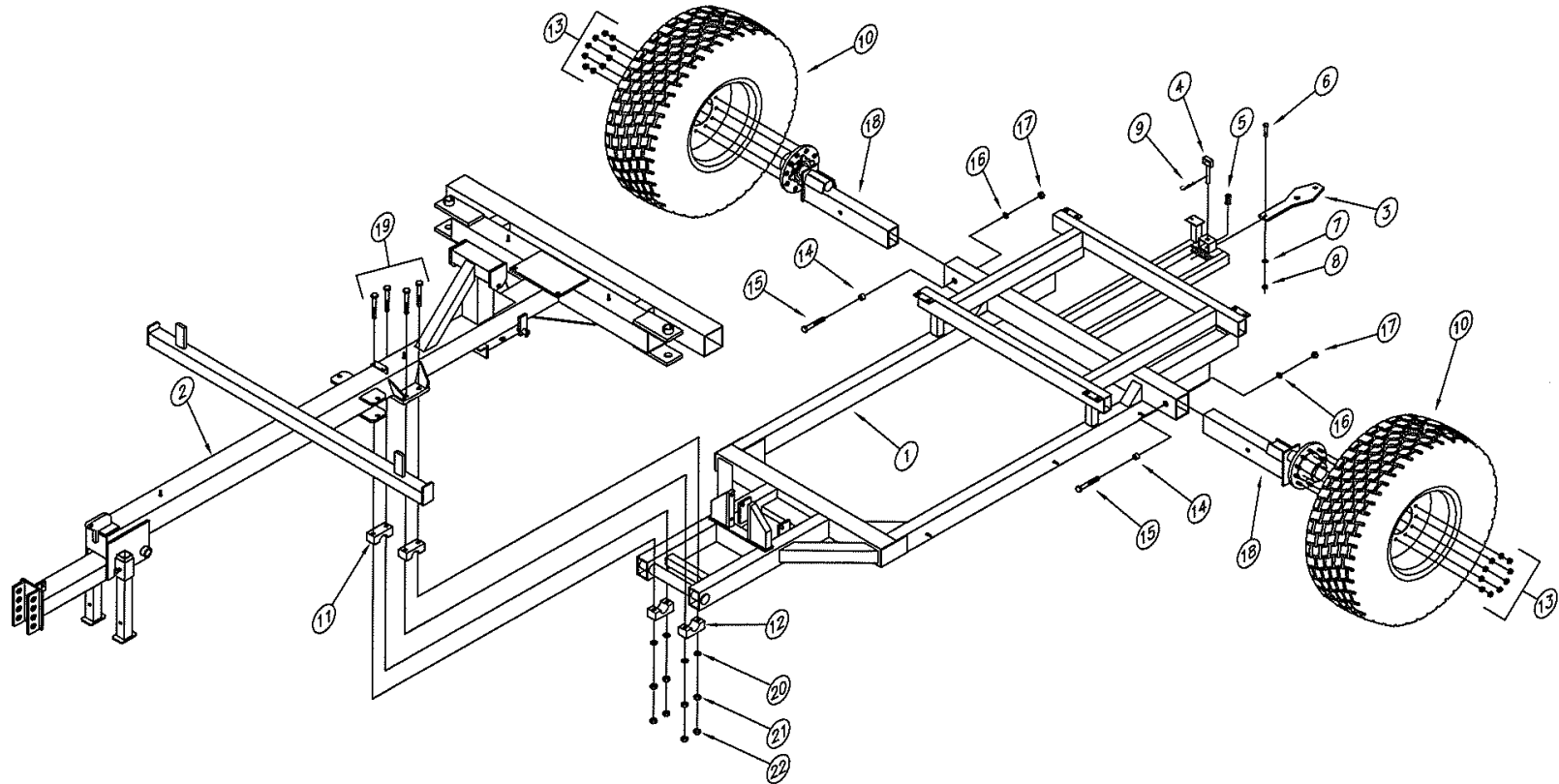
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ATTACHING THE TRANSPORT SAFETY

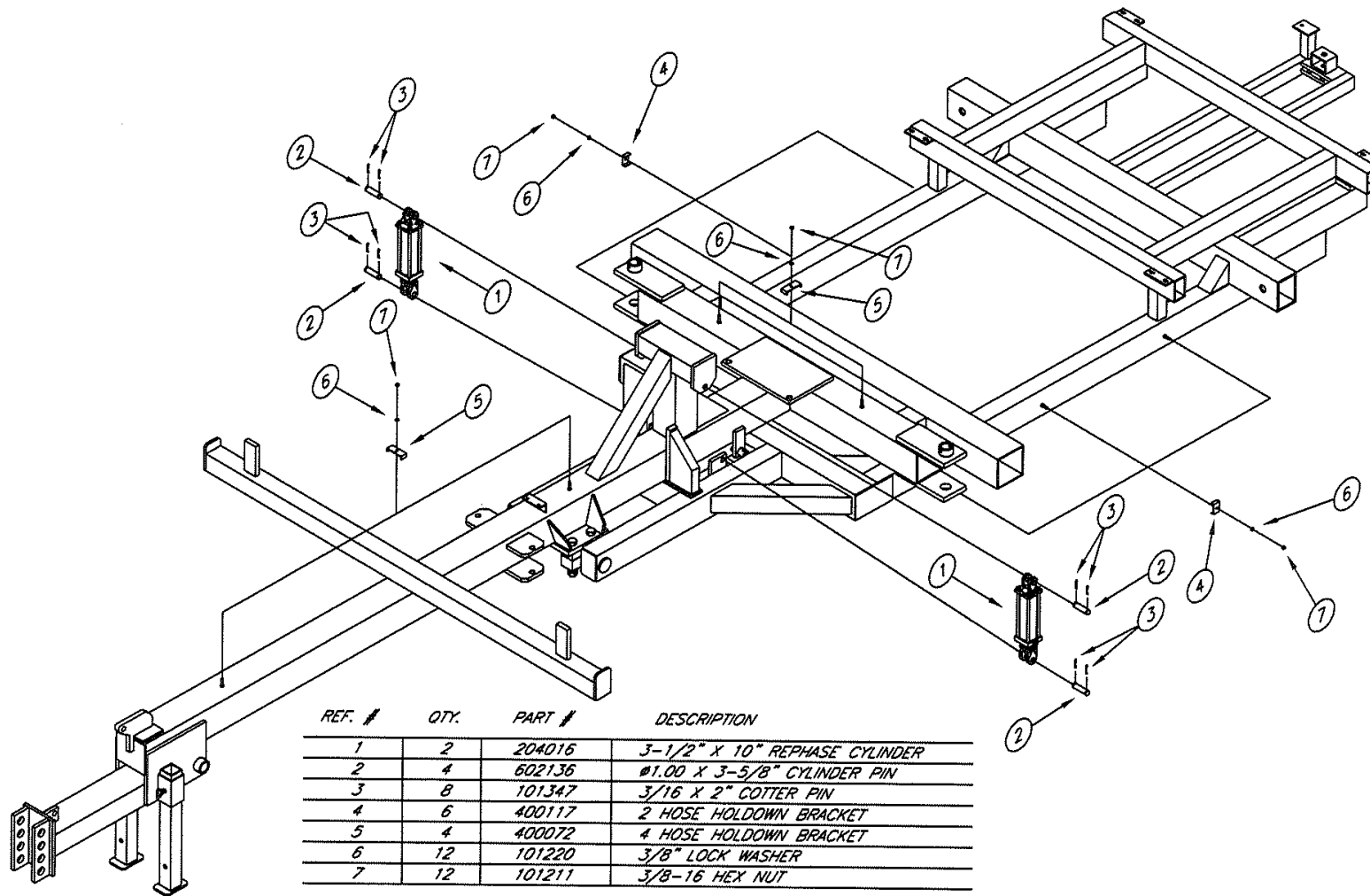


INNER HITCH TUBE/MAINFRAME & CARGO FRAME ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION	REF. #	QTY.	PART #	DESCRIPTION
1	1	801319	CARGO FRAME ASSEMBLY - COMPLETE	10	2	301196	18.4 X 26 TIRE & WHEEL ASSEMBLY
2	1	801179A	HITCH TUBE AND MAINFRAME ASSEMBLY	11	2	400255	3" PIN BLOCK (NO ZERK)
3	1	801293	TELESCOPING DRAWBAR	12	2	400254	ZERKED 3" PIN BLOCK
4	1	801195	DRAWBAR PIN	13	20	301189	3/4-16 LUG NUT
5	1	101330	COMPRESSION SPRING	14	2	602191	1.5 O.D. X 1.0 I.D. X 1" STUB AXLE BUSHING
6	1	101171	3/4-10 X 2" HEX BOLT	15	2	101203	1-8 X 7" HEX BOLT
7	1	101224	3/4" LOCK WASHER	16	2	101226	1" LOCK WASHER
8	1	101215	3/4-10 HEX NUT	17	2	101217	1-8 HEX NUT
9	1	101266	3/16" HAIRPIN	18	2	801552	STUB AXLE WELDMENT
				19	4	101482	1-8 X 8" - GR8. HEX BOLT - YELLOW ZINC
				20	4	101226	1" LOCK WASHER - ZINC PLT.
				21	4	101217	1-8 HEX NUT - ZINC PLT.
				22	4	101483	1-8 JAM NUT - ZINC PLATED

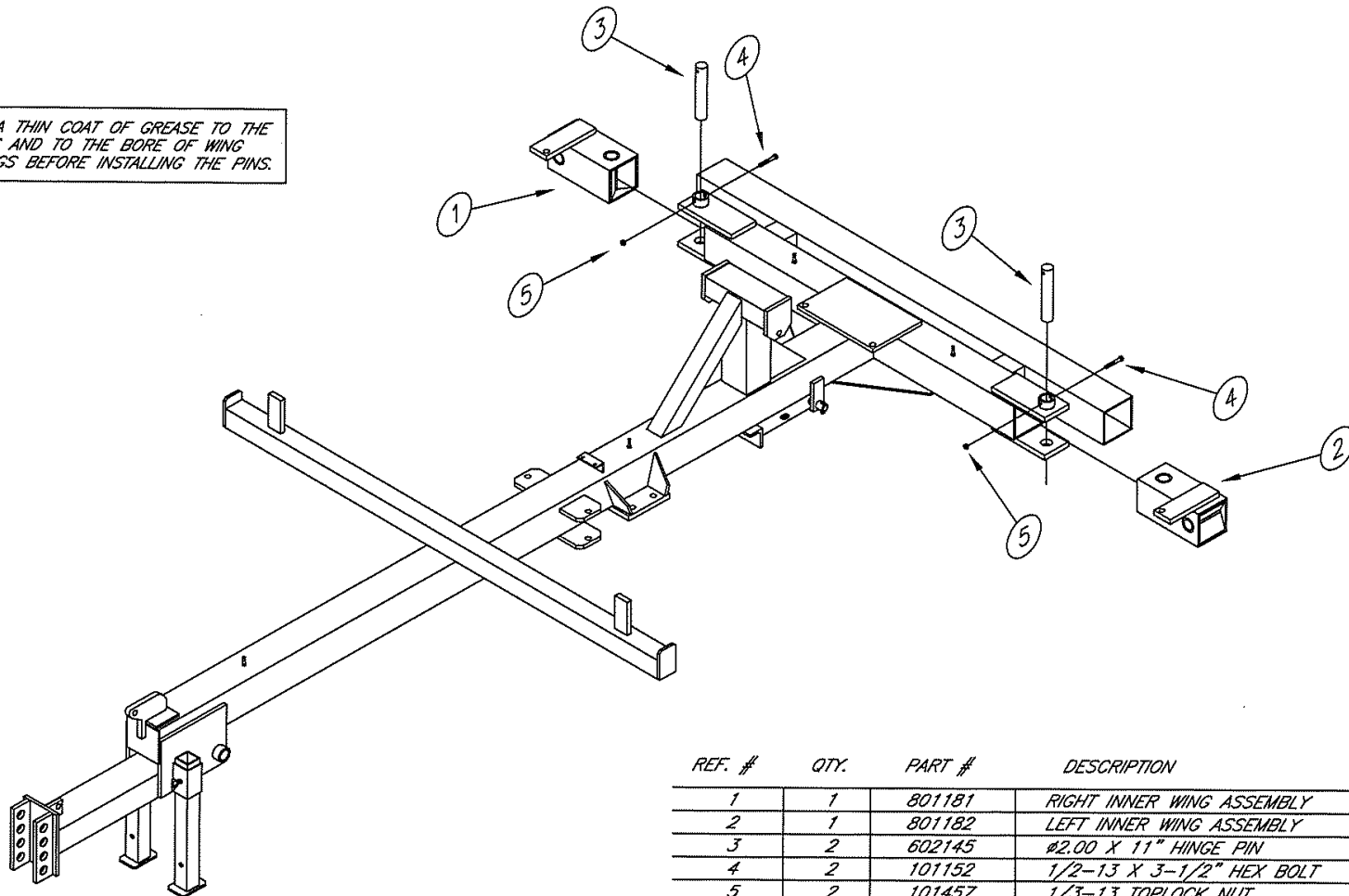
MAINFRAME HYDRAULIC CYLINDER INSTALLATION



REF. #	QTY.	PART #	DESCRIPTION
1	2	204016	3-1/2" X 10" REPHASE CYLINDER
2	4	602136	#1.00 X 3-5/8" CYLINDER PIN
3	8	101347	3/16 X 2" COTTER PIN
4	6	400117	2 HOSE HOLDOWN BRACKET
5	4	400072	4 HOSE HOLDOWN BRACKET
6	12	101220	3/8" LOCK WASHER
7	12	101211	3/8-16 HEX NUT

ATTACHING THE INNER WINGS

APPLY A THIN COAT OF GREASE TO THE PINS AND TO THE BORE OF WING BUSHINGS BEFORE INSTALLING THE PINS.

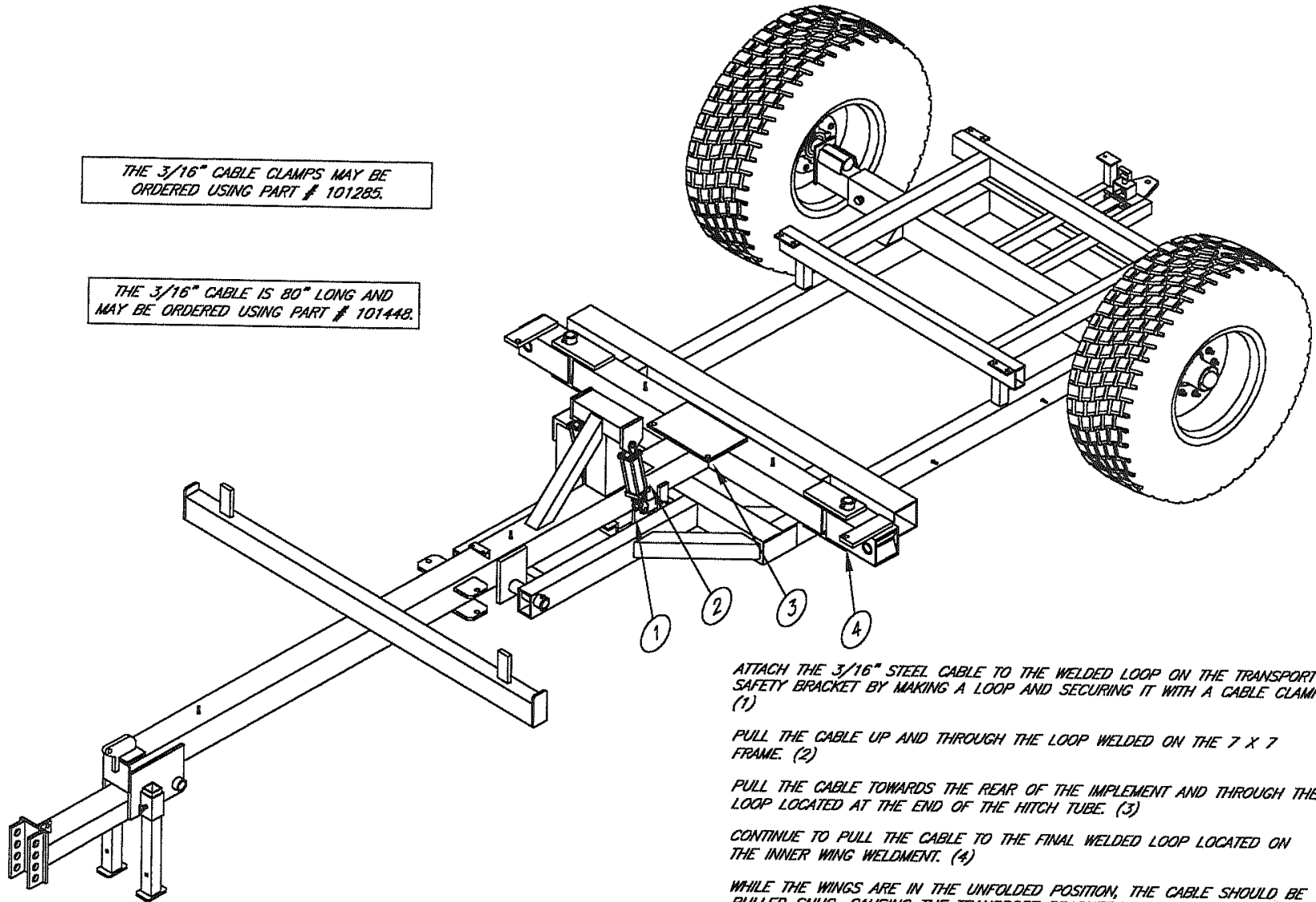


REF. #	QTY.	PART #	DESCRIPTION
1	1	801181	RIGHT INNER WING ASSEMBLY
2	1	801182	LEFT INNER WING ASSEMBLY
3	2	602145	Ø2.00 X 11" HINGE PIN
4	2	101152	1/2-13 X 3-1/2" HEX BOLT
5	2	101457	1/3-13 TOPLOCK NUT

INSTALLING THE TRANSPORT SAFETY CABLE

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

THE 3/16" CABLE IS 80" LONG AND MAY BE ORDERED USING PART # 101448.



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)

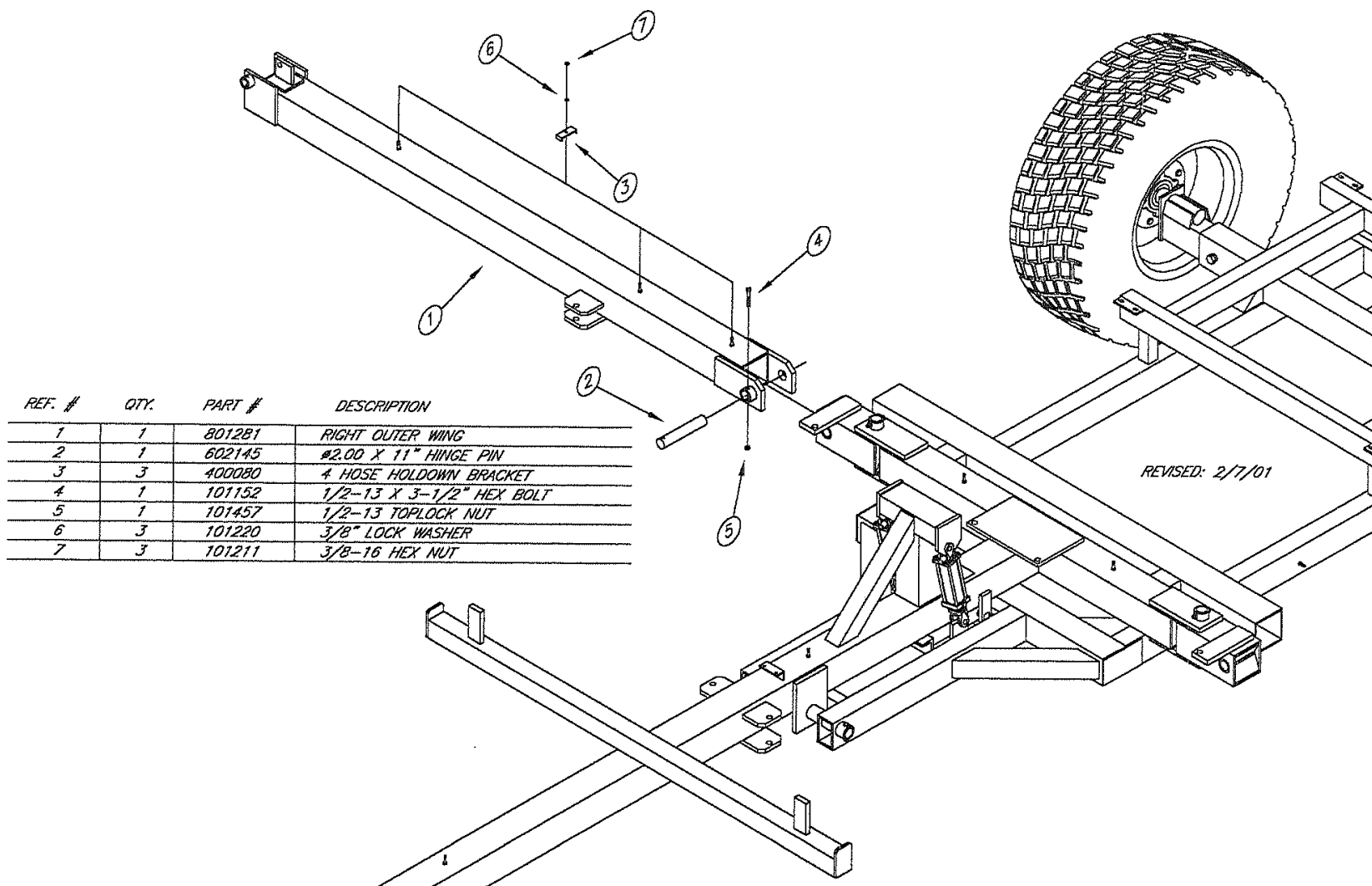
PULL THE CABLE UP AND THROUGH THE LOOP WELDED ON THE 7 X 7 FRAME. (2)

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)

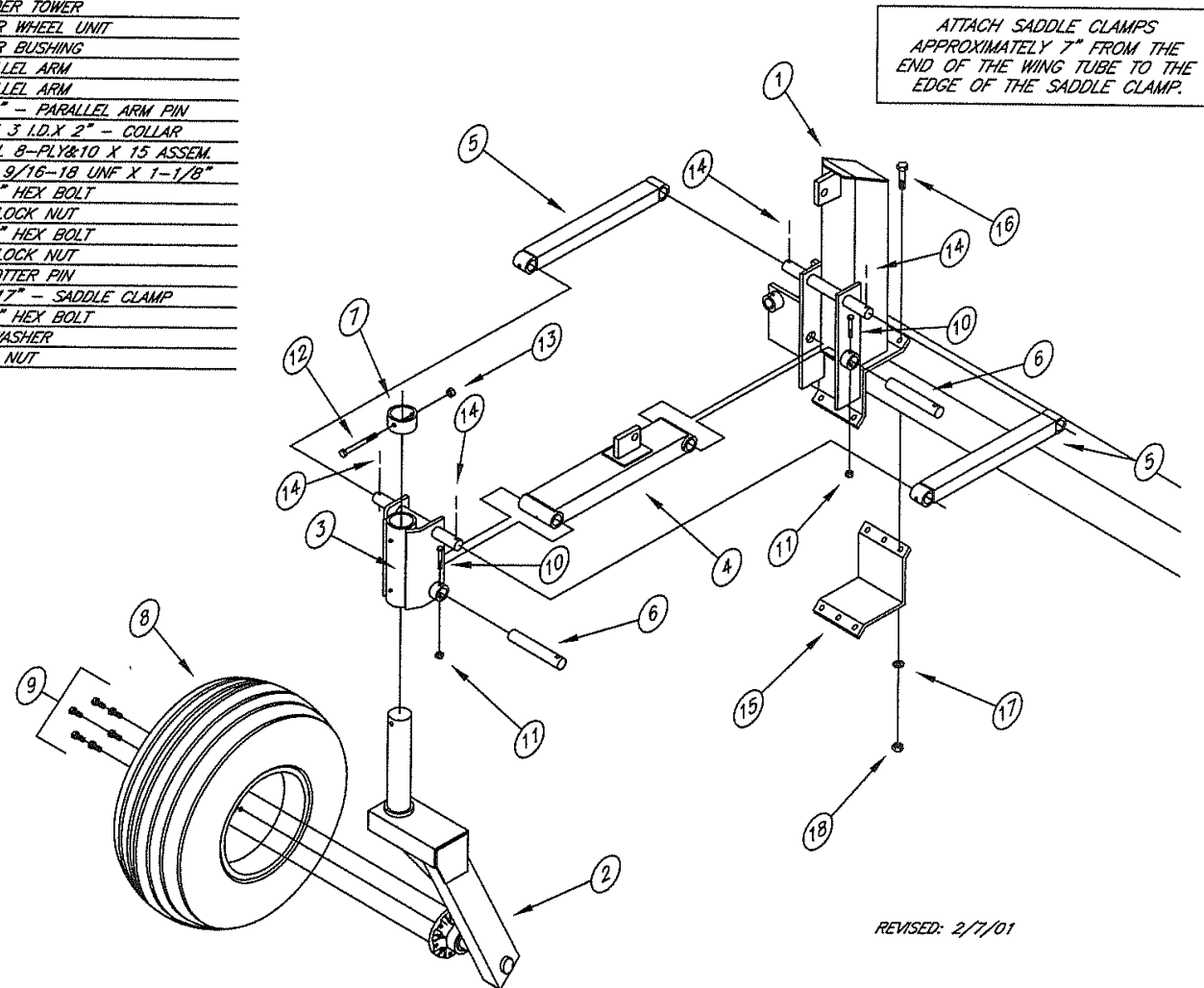
WHILE THE WINGS ARE IN THE UNFOLDED POSITION, THE CABLE SHOULD BE PULLED SNUG, CAUSING THE TRANSPORT BRACKET TO CONTACT THE BOTTOM OF THE CROSSMEMBER. SECURE THE CABLE WITH A CLAMP.

RIGHT OUTER WING ASSEMBLY

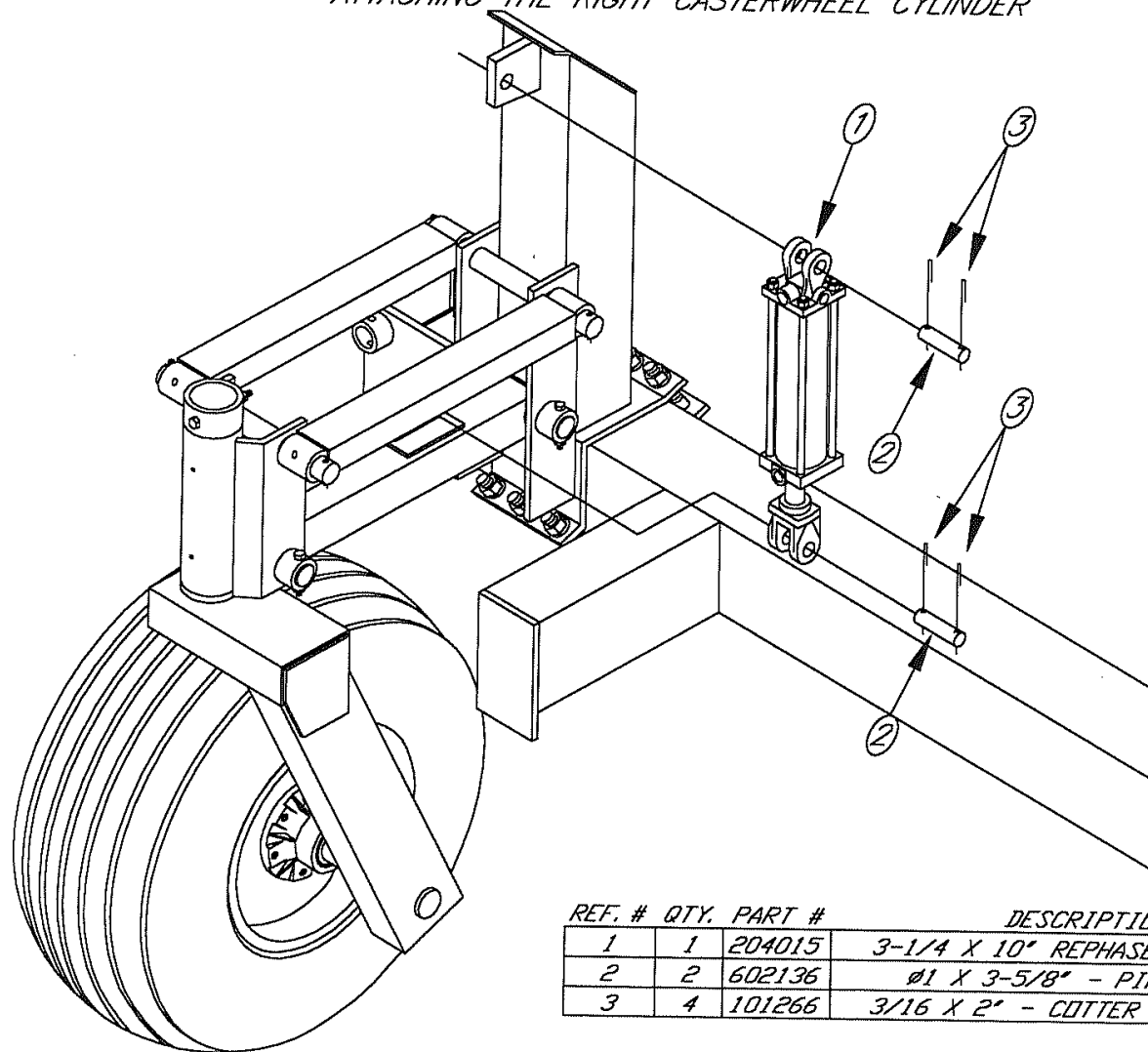


REF. #	QTY.	PART #	DESCRIPTION
1	1	801385	RIGHT CYLINDER TOWER
2	1	801387	RIGHT CASTER WHEEL UNIT
3	1	602186	RIGHT CASTER BUSHING
4	1	801388	LOWER PARALLEL ARM
5	2	801389	UPPER PARALLEL ARM
6	2	602129	#1-1/2 X 9" - PARALLEL ARM PIN
7	1	602187	3-3/4 O.D.X 3 I.D.X 2" - COLLAR
8	1	301194	12.5L X 15SL 8-PLY&10 X 15 ASSEM.
9	6	301151	LUG BOLT - 9/16-18 UNF X 1-1/8"
10	2	101129	3/8-16 X 3" HEX BOLT
11	2	101455	3/8-16 TOPLOCK NUT
12	1	101166	5/8-11 X 5" HEX BOLT
13	1	101458	5/8-11 TOPLOCK NUT
14	4	101265	1/4 X 2" COTTER PIN
15	1	400132	1/2 X 8 X 17" - SADDLE CLAMP
16	6	101173	3/4-10 X 3" HEX BOLT
17	6	101224	3/4" LOCK WASHER
18	6	101215	3/4-10 HEX NUT

RIGHT CASTERWHEEL ASSEMBLY

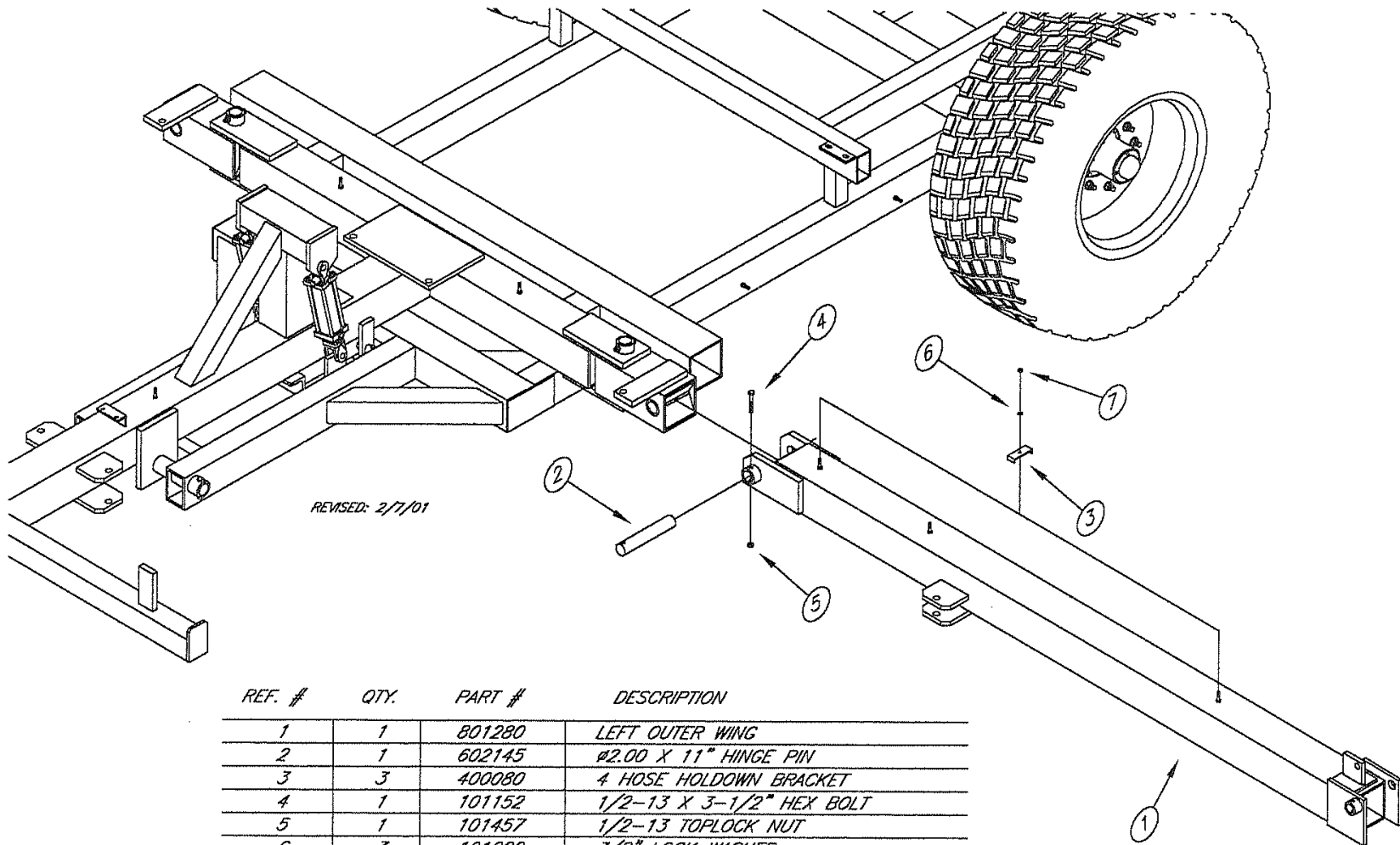


ATTACHING THE RIGHT CASTERWHEEL CYLINDER



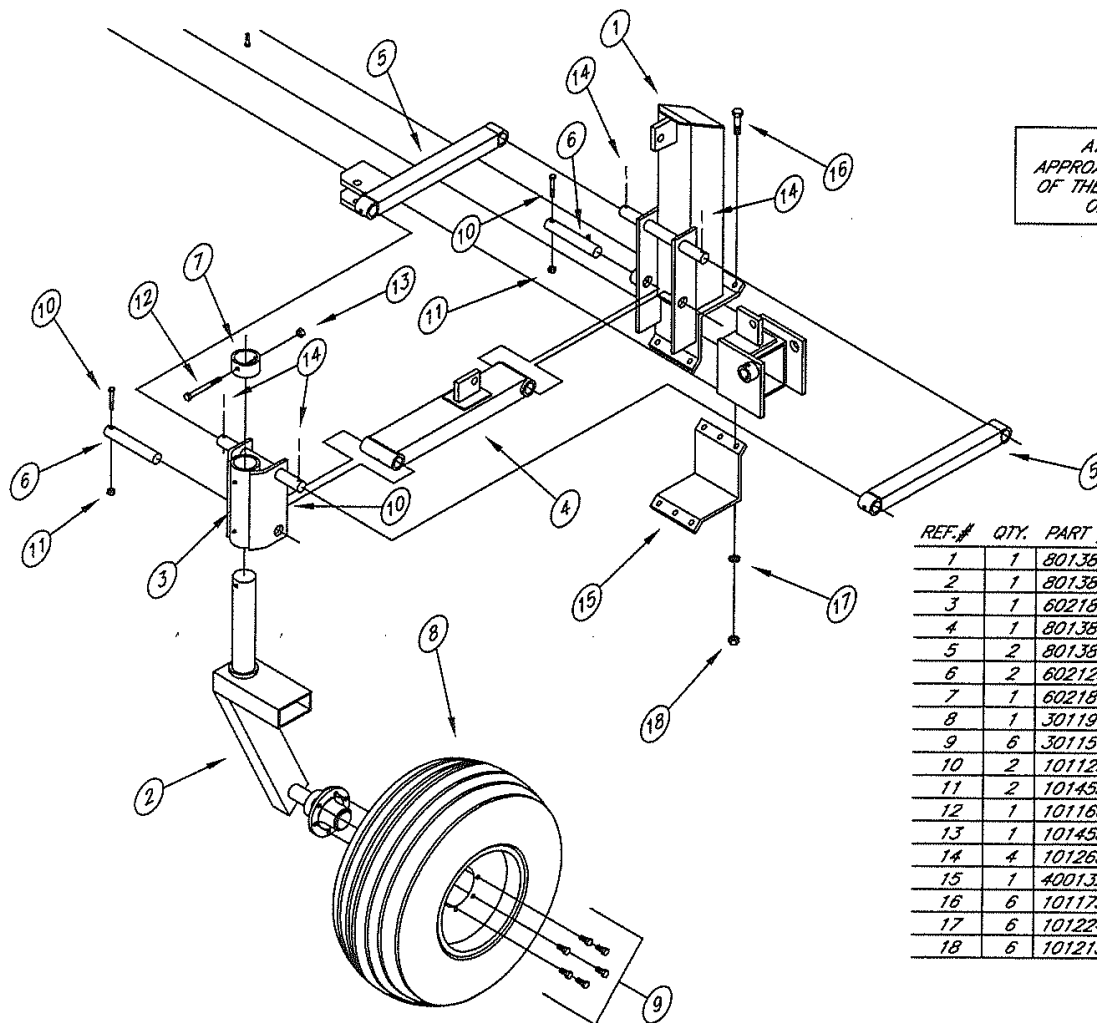
REF. #	QTY.	PART #	DESCRIPTION
1	1	204015	3-1/4 X 10" REPHASE CYLINDER
2	2	602136	Ø1 X 3-5/8" - PIN - PLT
3	4	101266	3/16 X 2" - COTTER PIN - PLT

LEFT OUTER WING ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801280	LEFT OUTER WING
2	1	602145	Ø2.00 X 11" HINGE PIN
3	3	400080	4 HOSE HOLDOWN BRACKET
4	1	101152	1/2-13 X 3-1/2" HEX BOLT
5	1	101457	1/2-13 TOPLOCK NUT
6	3	101220	3/8" LOCK WASHER
7	3	101211	3/8-16 HEX NUT

LEFT CASTERWHEEL ASSEMBLY

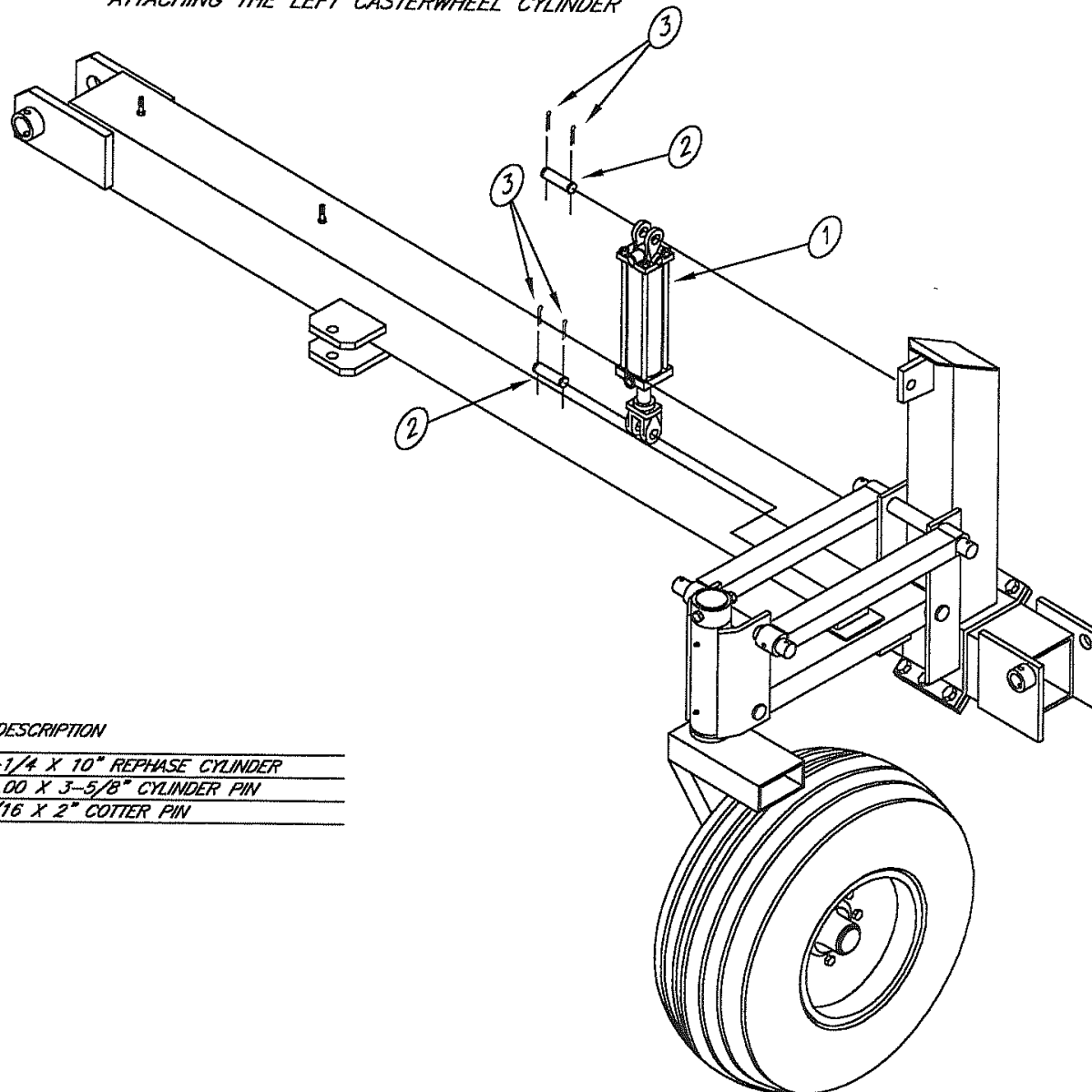


ATTACH SADDLE CLAMPS
APPROXIMATELY 7" FROM THE END
OF THE WING TUBE TO THE EDGE
OF THE SADDLE CLAMP.

REVISED: 2/7/01

REF.#	QTY.	PART #	DESCRIPTION
1	1	801384	LEFT CYLINDER TOWER
2	1	801386	LEFT CASTER WHEEL UNIT
3	1	602185	LEFT CASTER BUSHING
4	1	801388	LOWER PARALLEL ARM
5	2	801389	UPPER PARALLEL ARM
6	2	602129	Ø1-1/2 X 9" - PARALLEL ARM PIN
7	1	602187	3-3/4 O.D.X 3 I.D.X 2" - COLLAR
8	1	301194	12.5L X 15SL 8-PLY&10 X 15 ASSEM.
9	6	301151	LUG BOLT - 9/16-18 UNF X 1-1/8"
10	2	101129	3/8-16 X 3" HEX BOLT
11	2	101455	3/8-16 TOPLOCK NUT
12	1	101166	5/8-11 X 5" HEX BOLT
13	1	101458	5/8-11 TOPLOCK NUT
14	4	101265	1/4 X 2" COTTER PIN
15	1	400132	1/2 X 8 X 17" - SADDLE CLAMP
16	6	101173	3/4-10 X 3" HEX BOLT
17	6	101224	3/4" LOCK WASHER
18	6	101215	3/4-10 HEX NUT

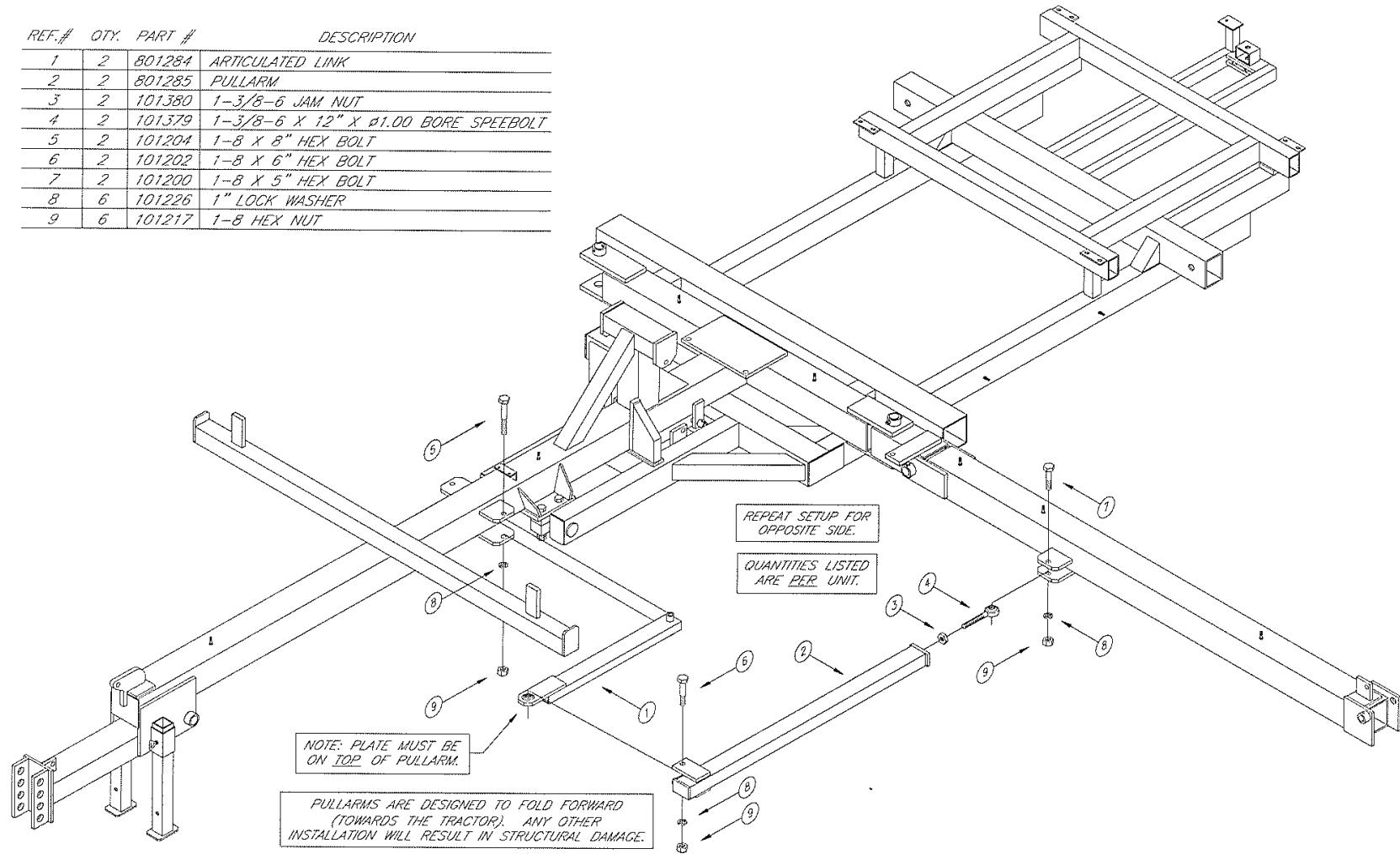
ATTACHING THE LEFT CASTERWHEEL CYLINDER



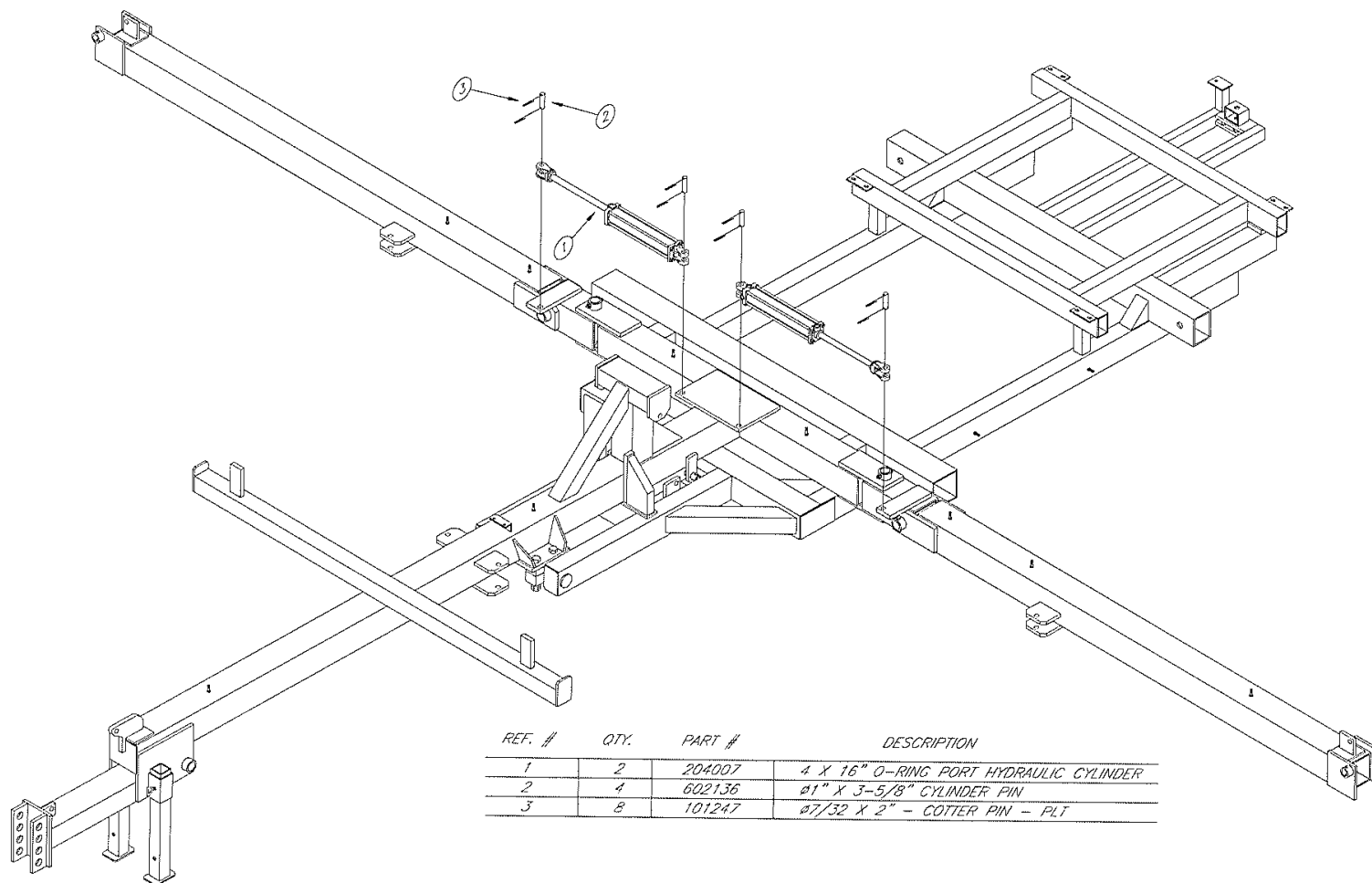
REF. #	QTY.	PART #	DESCRIPTION
1	1	204015	3-1/4 X 10" REPHASE CYLINDER
2	2	602136	#1.00 X 3-5/8" CYLINDER PIN
3	4	101266	3/16 X 2" COTTER PIN

PULLARM ASSEMBLY

REF.#	QTY.	PART #	DESCRIPTION
1	2	801284	ARTICULATED LINK
2	2	801285	PULLARM
3	2	101380	1-3/8-6 JAM NUT
4	2	101379	1-3/8-6 X 12" X Ø1.00 BORE SPEEDBOLT
5	2	101204	1-8 X 8" HEX BOLT
6	2	101202	1-8 X 6" HEX BOLT
7	2	101200	1-8 X 5" HEX BOLT
8	6	101226	1" LOCK WASHER
9	6	101217	1-8 HEX NUT



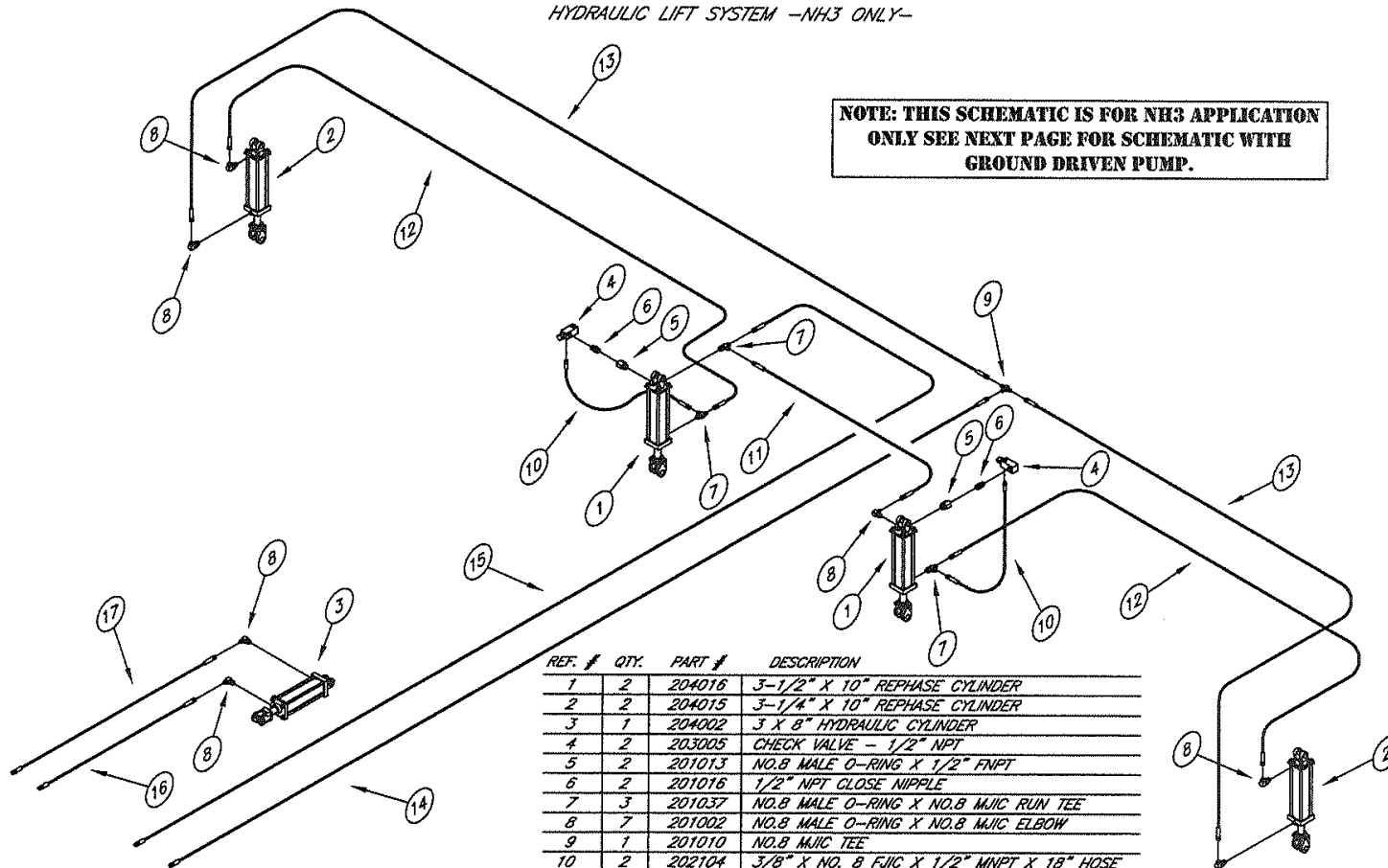
HYDRAULIC WING-FOLD CYLINDER INSTALLATION



REF. #	QTY.	PART #	DESCRIPTION
1	2	204007	4 X 16" O-RING PORT HYDRAULIC CYLINDER
2	4	602136	Ø1" X 3-5/8" CYLINDER PIN
3	8	101247	Ø7/32 X 2" - COTTER PIN - PLT

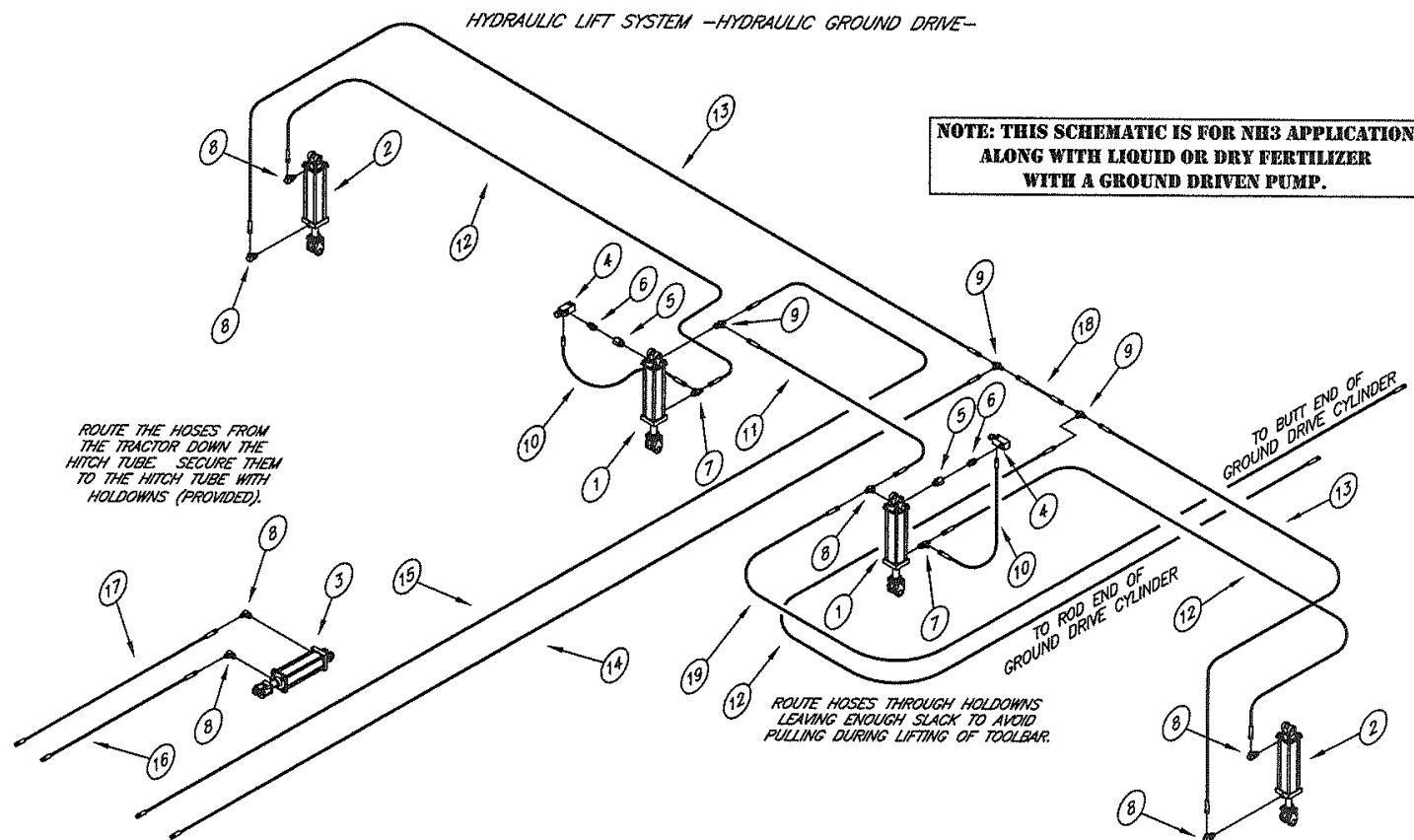
HYDRAULIC LIFT SYSTEM -NH3 ONLY-

**NOTE: THIS SCHEMATIC IS FOR NH3 APPLICATION
ONLY SEE NEXT PAGE FOR SCHEMATIC WITH
GROUND DRIVEN PUMP.**



ROUTE THE HOSES FROM
THE TRACTOR DOWN THE
HITCH TUBE. SECURE THEM
TO THE HITCH TUBE WITH
HOLDOWNS (PROVIDED).

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	7	201002	NO.8 MALE O-RING X NO.8 MJIC ELBOW
9	1	201010	NO.8 MJIC 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	2	202111	3/8" X NO. 8 FJIC X NO. 8 FJIC X 216" HOSE
13	2	202244	3/8" X NO. 8 FJIC X NO. 8 FJIC X 190" HOSE
14	1	202109	3/8" X 1/2" MNPT X NO. 8 FJIC X 264" HOSE
15	1	202110	3/8" X 1/2" MNPT X NO. 8 FJIC X 228" HOSE
16	1	202194	3/8" X 1/2" MNPT X NO. 8 FJIC X 60" HOSE
17	1	202195	3/8" X 1/2" MNPT X NO. 8 FJIC X 72" HOSE
---	4	450061	STROKE CONTROL KIT



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	2	201037	NO.8 MALE O-RING X NO.8 MJIC RUN TEE
8	7	201002	NO.8 MALE O-RING X NO.8 MJIC ELBOW
9	2	201010	NO.8 MJIC TEE
10	2	202104	3/8" X NO. 8 FJIC X 1/2" MNPT X 18" HOSE

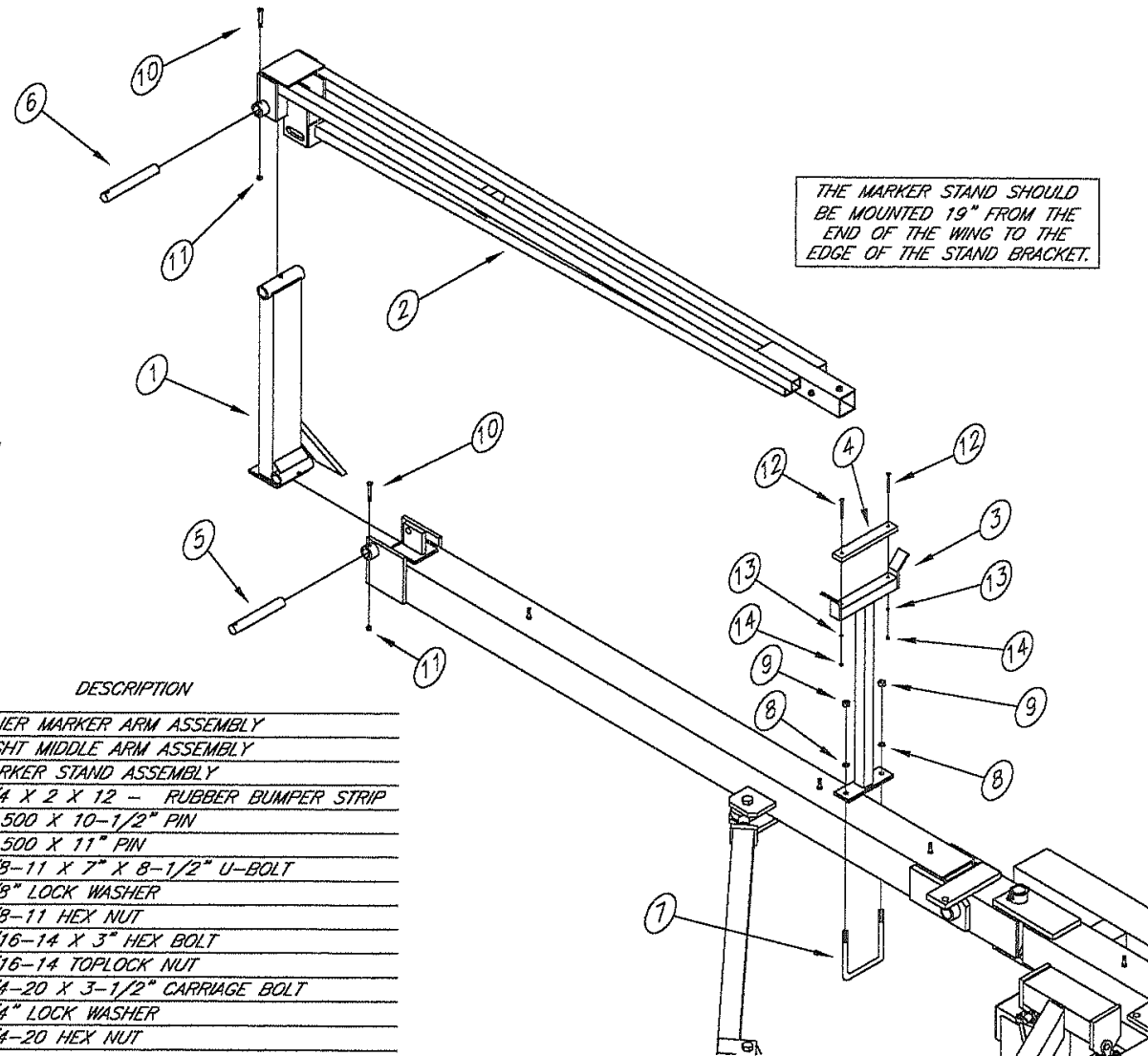
REF. #	QTY.	PART #	DESCRIPTION
11	1	202056	3/8" X NO. 8 FJIC X NO. 8 FJIC X 28" HOSE
12	3	202111	3/8" X NO. 8 FJIC X NO. 8 FJIC X 216" HOSE
13	2	202244	3/8" X NO. 8 FJIC X NO. 8 FJIC X 190" HOSE
14	1	202109	3/8" X 1/2" MNPT X NO. 8 FJIC X 264" HOSE
15	1	202110	3/8" X 1/2" MNPT X NO. 8 FJIC X 228" HOSE
16	1	202194	3/8" X 1/2" MNPT X NO. 8 FJIC X 60" HOSE
17	1	202195	3/8" X 1/2" MNPT X NO. 8 FJIC X 72" HOSE
18	1	202047	3/8" X NO. 8 FJIC X NO. 8 FJIC X 6" HOSE
19	1	202198	3/8" X NO. 8 FJIC X NO. 8 FJIC X 168" HOSE
---	2	450061	STROKE CONTROL KIT

RIGHT MARKER ASSEMBLY AND STAND

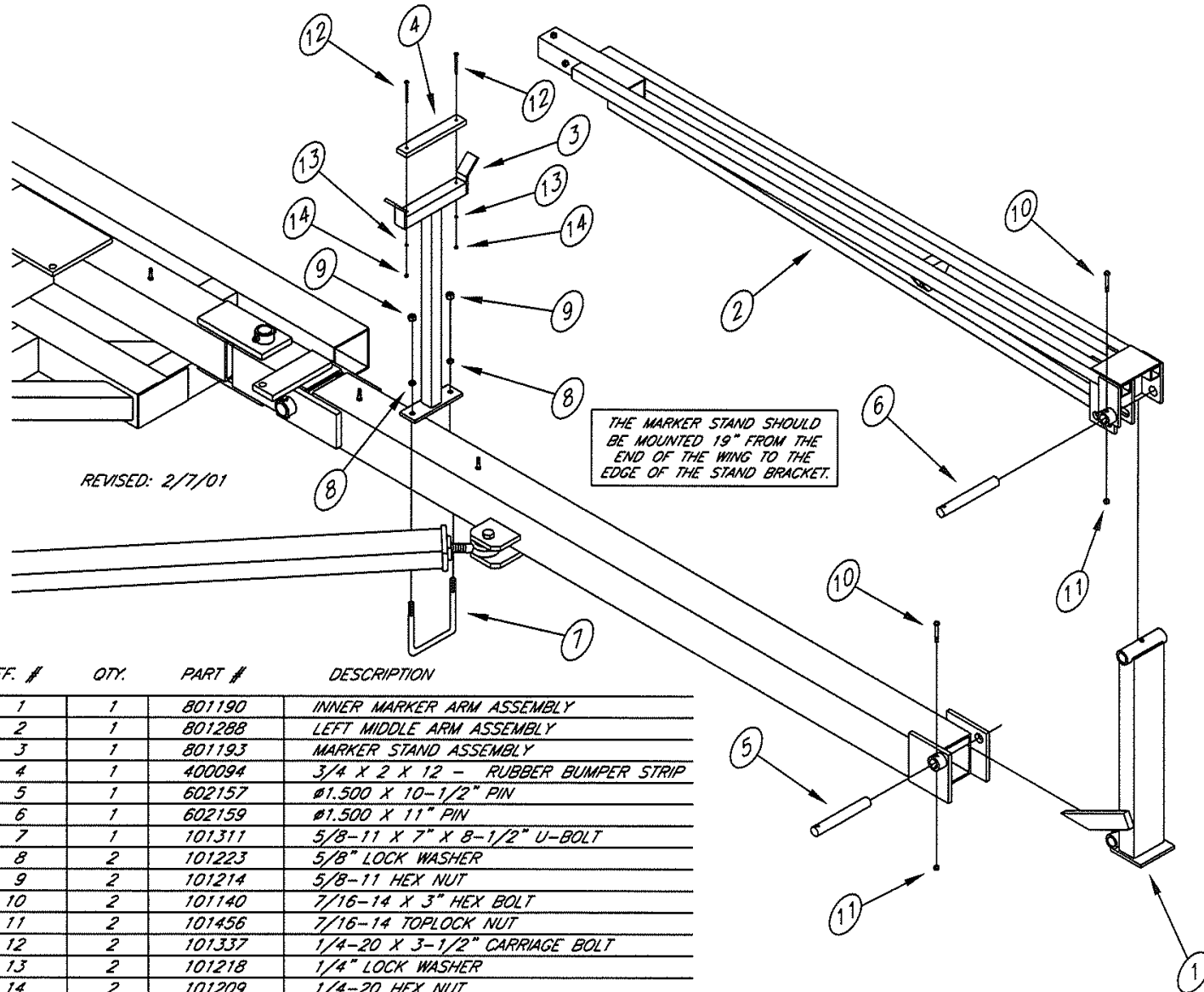
REVISED: 2/7/01

THE MARKER STAND SHOULD
BE MOUNTED 19" FROM THE
END OF THE WING TO THE
EDGE OF THE STAND BRACKET.

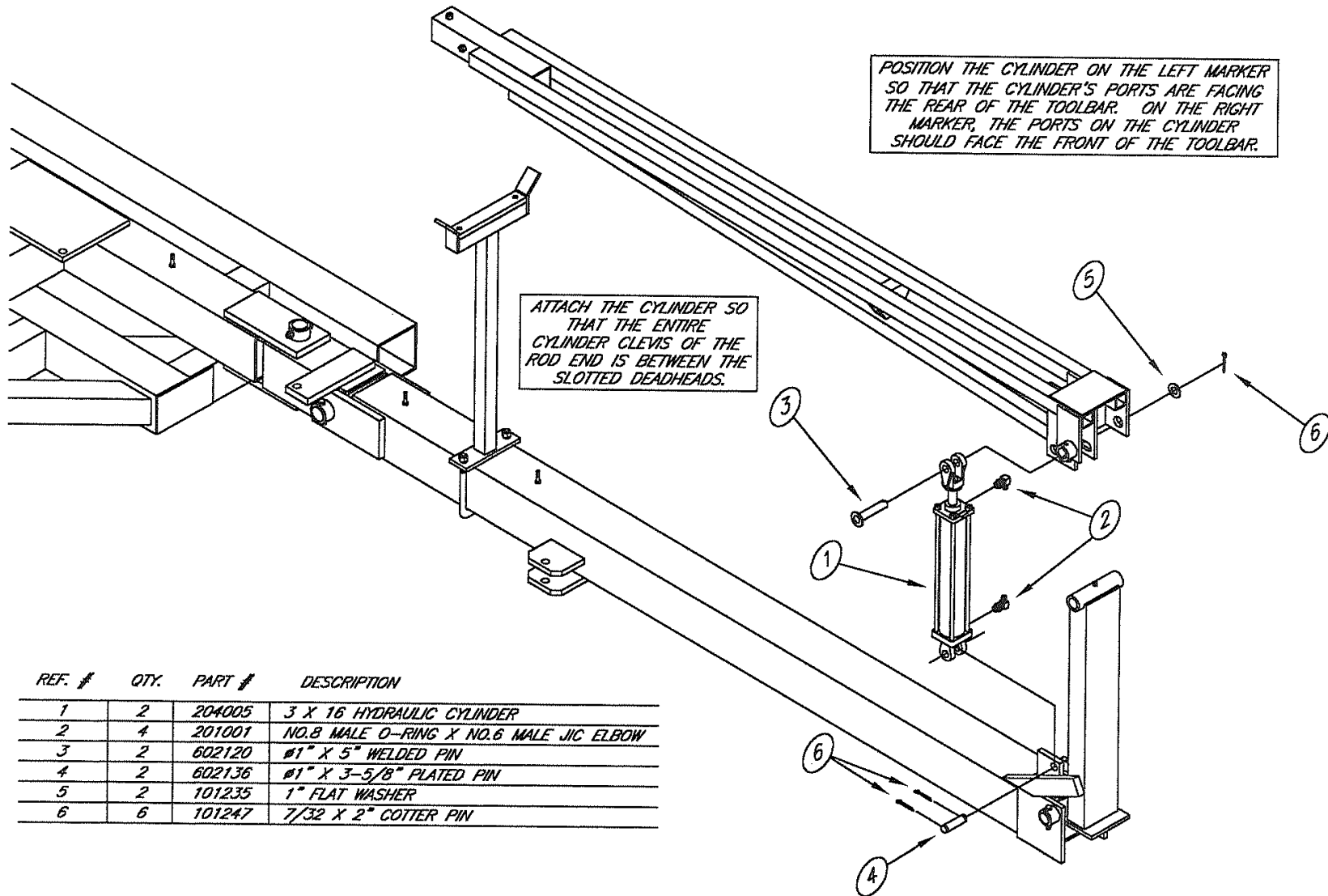
REF. #	QTY.	PART #	DESCRIPTION
1	1	801190	INNER MARKER ARM ASSEMBLY
2	1	801287	RIGHT MIDDLE ARM ASSEMBLY
3	1	801193	MARKER STAND ASSEMBLY
4	1	400094	3/4 X 2 X 12 - RUBBER BUMPER STRIP
5	1	602157	#1.500 X 10-1/2" PIN
6	1	602159	#1.500 X 11" PIN
7	1	101311	5/8-11 X 7" X 8-1/2" U-BOLT
8	2	101223	5/8" LOCK 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



LEFT MARKER ASSEMBLY & STAND



MARKER CYLINDER ATTACHMENT



OUTER MARKER ARM & DISC ADJUSTING ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	2	400120	OUTER ARM TUBE - 38"
2	1	400072	LEFT DISC ADJUSTING ASSEMBLY
-	1	400006	RIGHT DISC ADJUSTING ASSEMBLY
3	2	400226	18" NOTCHED MARKER DISC W/ DEPTH BAND
4	4	101154	1/2-13 X 4-1/2" HEX BOLT
5	4	101147	1/2-13 X 1" HEX BOLT
6	2	101231	1/2" FLAT WASHER
7	4	101222	1/2" LOCK WASHER
8	4	101213	1/2-13 HEX NUT
9	8	301191	1/2-20 X 1-1/4" WHIZ BOLT

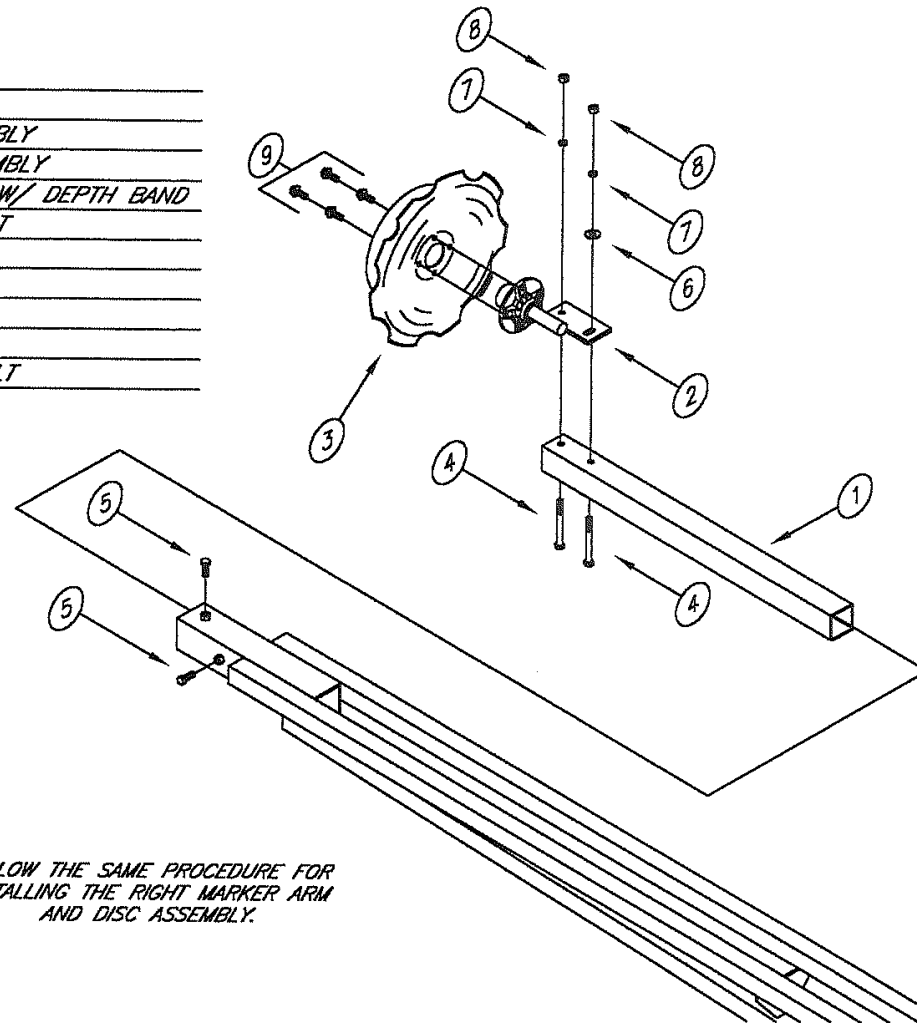
REVISED: 12/12/00

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

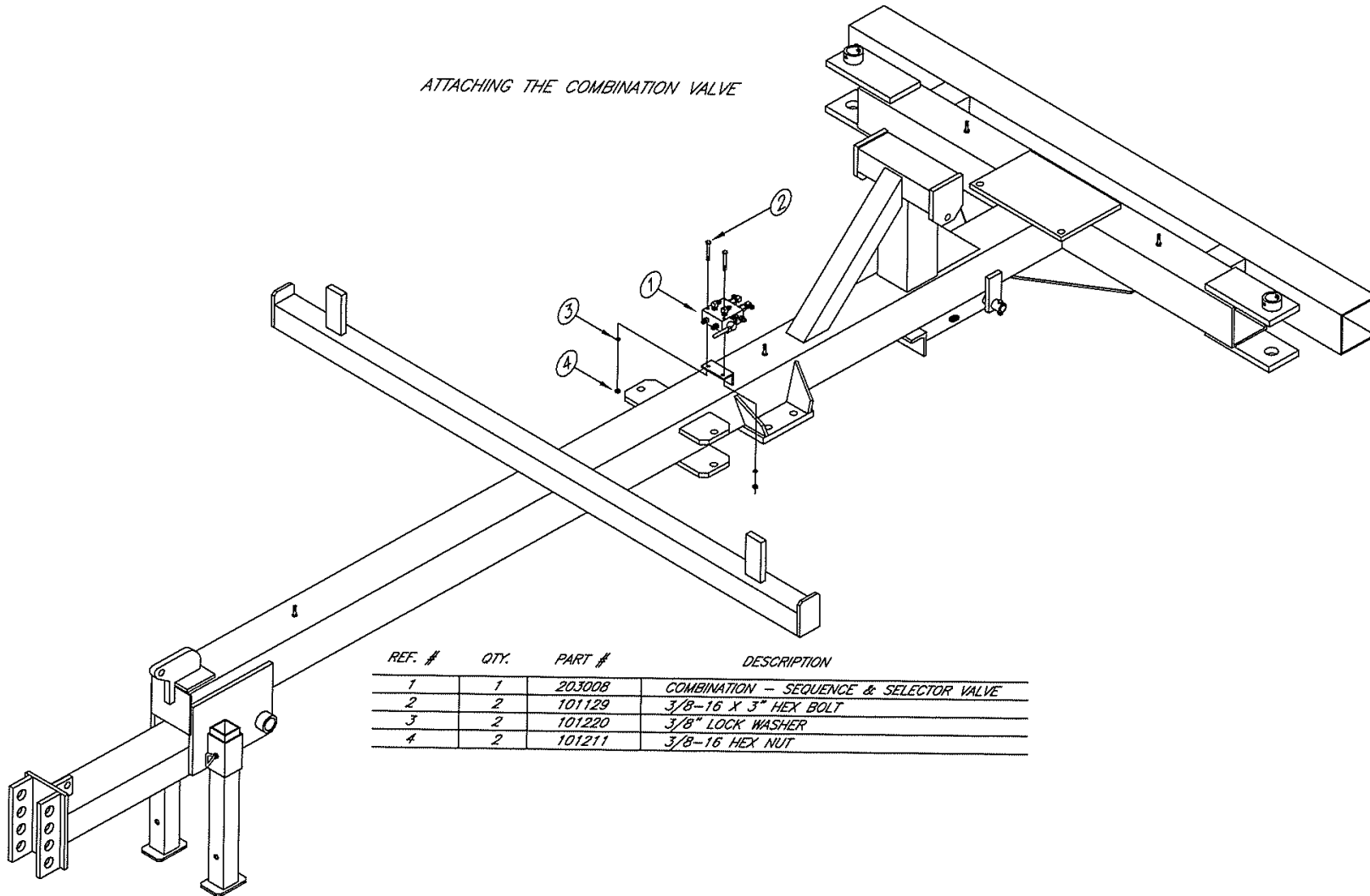
NOTE THAT THE RIGHT MARKER DISC ASSEMBLY INCLUDE THE FOLLOWING:
801324 - RIGHT SPINDLE WELDMENT
310159 - 4 BOLT HUB ASSEMBLY

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

FOLLOW THE SAME PROCEDURE FOR INSTALLING THE RIGHT MARKER ARM AND DISC ASSEMBLY.



ATTACHING THE COMBINATION VALVE



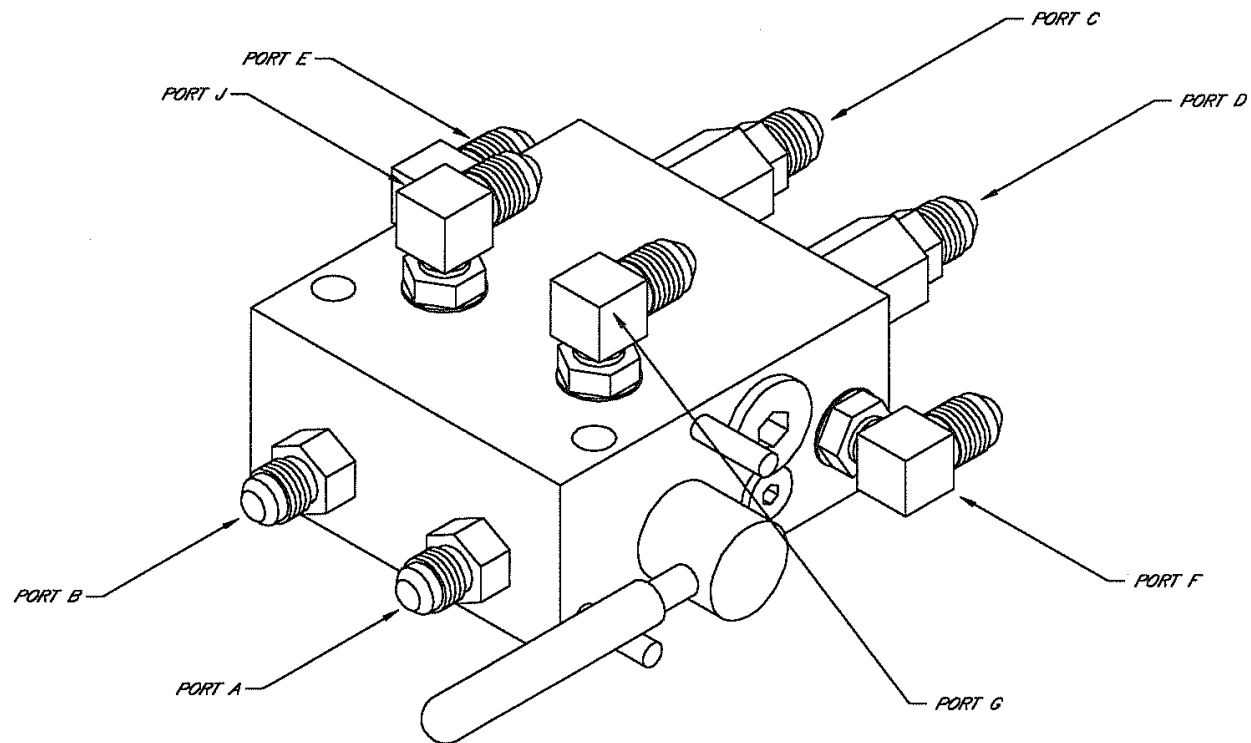
REF. #	QTY.	PART #	DESCRIPTION
1	1	203008	COMBINATION - SEQUENCE & SELECTOR VALVE
2	2	101129	3/8-16 X 3" HEX BOLT
3	2	101220	3/8" LOCK WASHER
4	2	101211	3/8-16 HEX NUT

*COMBINATION VALVE PORT IDENTIFICATION AND FUNCTION
FOR THE 30' 6200 FRONT FOLD TOOLBAR*

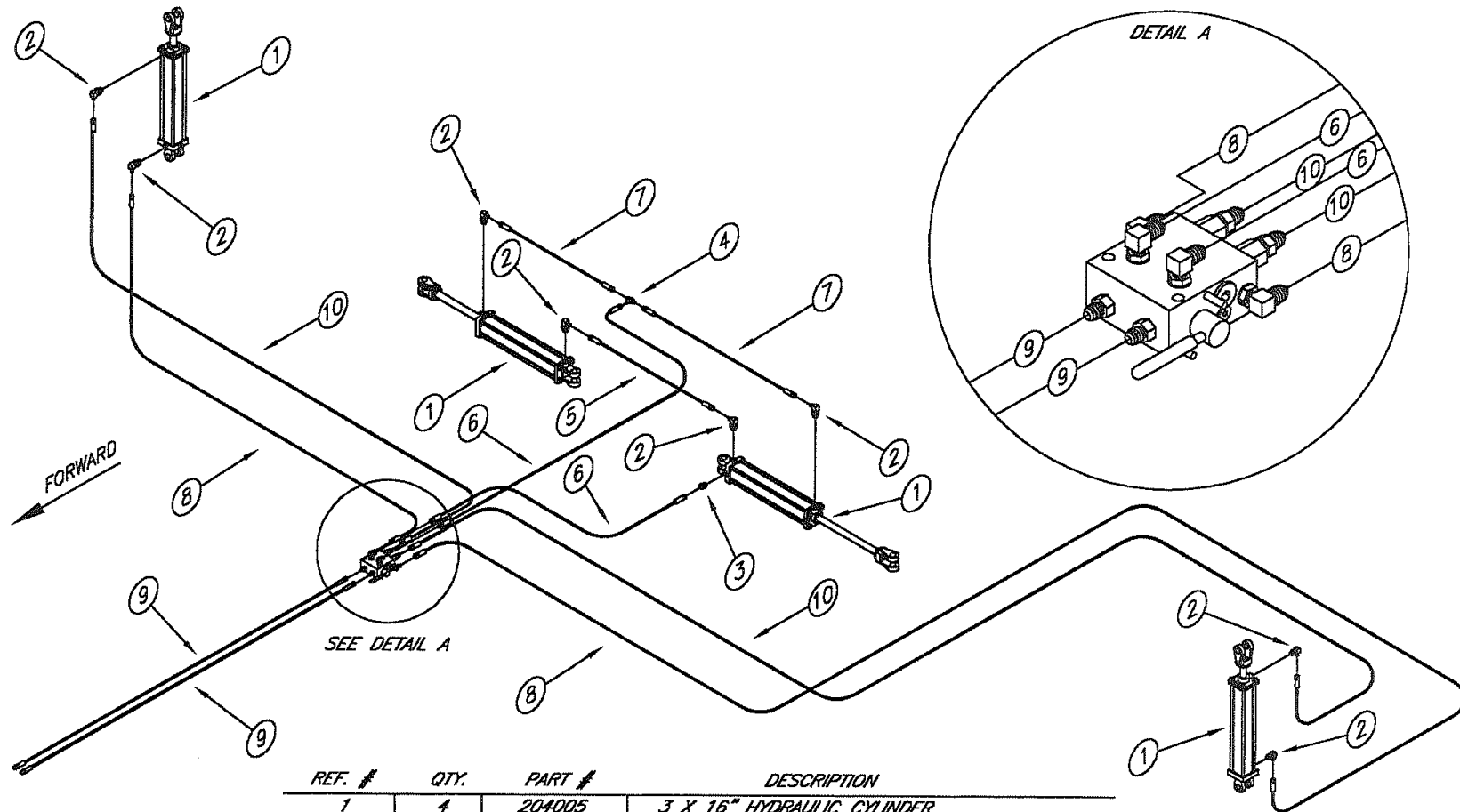
ALL PORTS ARE NO.6 MALE JIC FITTINGS.

*PORTS C,D,E, AND F ARE OPERATIONAL WHEN
THE VALVE HANDLE IS HORIZONTAL AS SHOWN
BELOW. PORTS C,D,E, AND F ARE ALL MARKER
FUNCTION PORTS.*

*PORTS J AND G ARE OPERATIONAL WHEN THE
VALVE HANDLE IS VERTICAL. PORTS J AND G
ARE FOLD FUNCTION PORTS.*

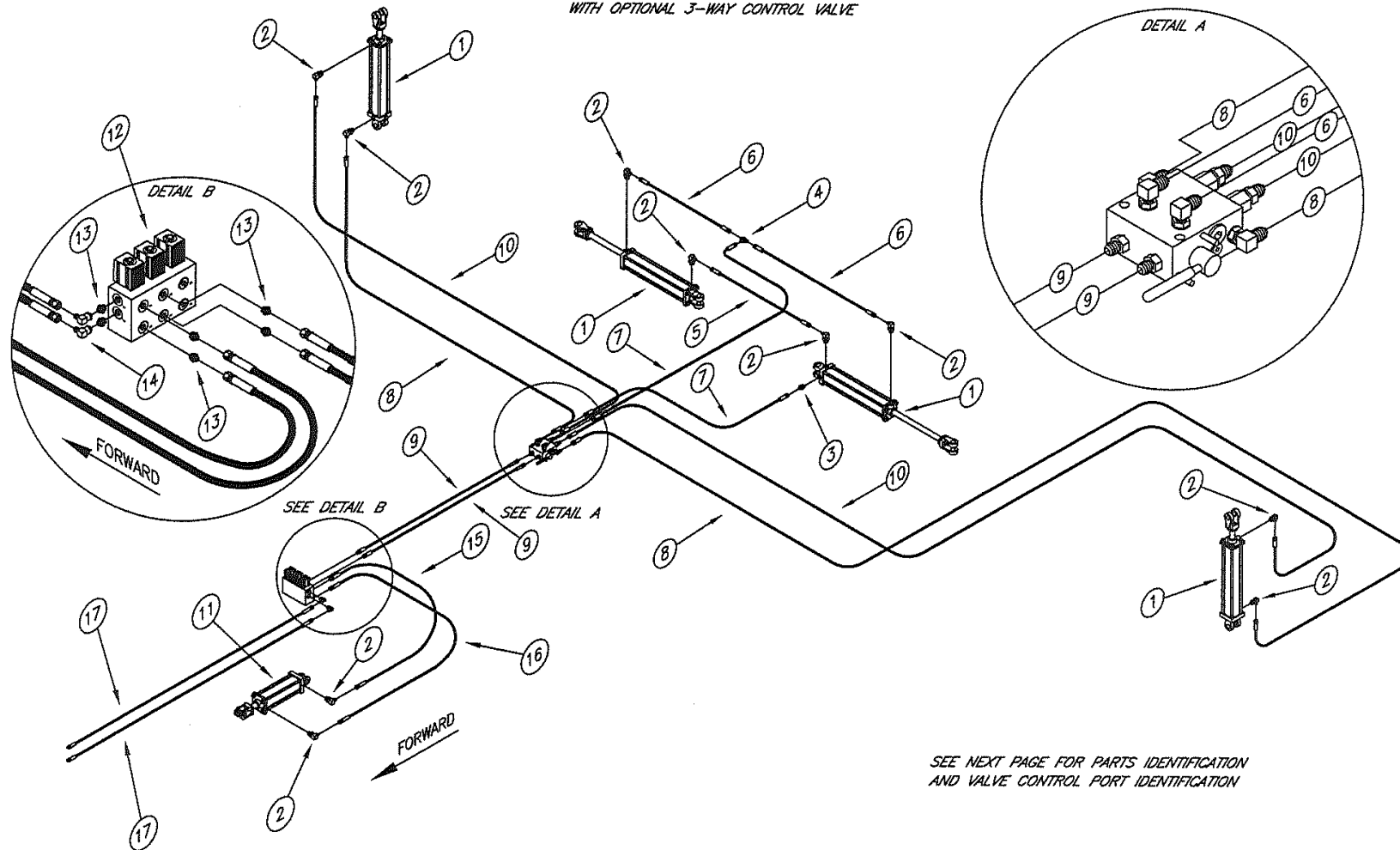


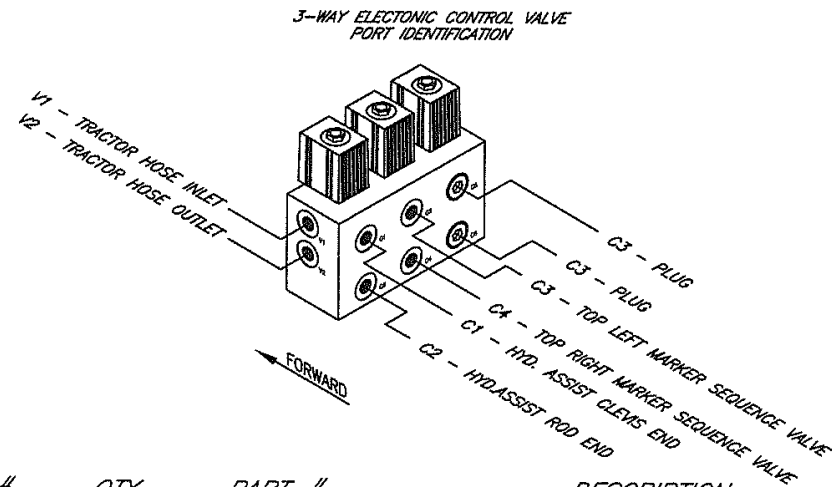
HYDRAULIC SCHEMATIC FOR WING FOLD/MARKER SYSTEM - 30 FT.



REF. #	QTY.	PART #	DESCRIPTION
1	4	204005	3 X 16" HYDRAULIC CYLINDER
2	8	201001	NO. 8 MALE O-RING X NO. 6 MJIC ELBOW
3	1	201003	NO. 8 MALE O-RING X NO. 6 MJIC STRAIGHT
4	1	201009	NO. 6 MJIC TEE
5	1	202001	1/4 X NO. 6 FJIC X NO. 6 FJIC X 20" HOSE
6	2	202117	1/4 X NO. 6 FJIC X NO. 6 FJIC X 30" HOSE
7	2	202116	1/4 X NO. 6 FJIC X NO. 6 FJIC X 62" HOSE
8	2	202115	1/4 X NO. 6 FJIC X NO. 6 FJIC X 250" HOSE
9	2	202113	1/4 X 3/8" MNPT X NO. 6 FJIC X 192" HOSE
10	2	202114	1/4 X NO. 6 FJIC X NO. 6 FJIC X 270" HOSE

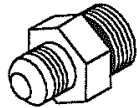
HYDRAULIC SCHEMATIC FOR WING FOLD/MARKER SYSTEM -- 30 FT.
WITH OPTIONAL 3-WAY CONTROL VALVE



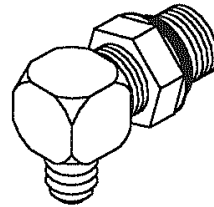


REF. #	QTY.	PART #	DESCRIPTION
1	4	204005	3 X 16" HYDRAULIC CYLINDER
2	10	201001	NO. 8 MALE O-RING X NO. 6 MJIC ELBOW
3	1	201003	NO. 8 MALE O-RING X NO. 6 MJIC STRAIGHT
4	1	201009	NO. 6 MJIC TEE
5	1	202107	1/4 X NO. 6 FJIC X NO. 6 FJIC X 21" HOSE
6	2	202117	1/4 X NO. 6 FJIC X NO. 6 FJIC X 30" HOSE
7	2	202116	1/4 X NO. 6 FJIC X NO. 6 FJIC X 62" HOSE
8	2	202115	1/4 X NO. 6 FJIC X NO. 6 FJIC X 250" HOSE
9	2	202009	1/4 X NO. 6 FJIC X NO. 6 FJIC X 104" HOSE
10	2	202114	1/4 X NO. 6 FJIC X NO. 6 FJIC X 270" HOSE
11	1	204002	3 X 8 HYDRAULIC CYLINDER
12	1	203123	3-WAY ELECTRONIC CONTROL VALVE
13	6	201003	NO. 6 MJIC X NO. 8 MALE O-RING
14	2	201029	NO. 6 FJIC X NO. 6 MJIC SWIVEL 90°
15	1	202141	1/4 X NO. 6 FJIC X NO. 6 FJIC X 32" HOSE
16	1	202058	1/4 X NO. 6 FJIC X NO. 6 FJIC X 42" HOSE
17	2	202250	1/4 X 3/8 MNPT X NO. 6 FJIC X 80" HOSE

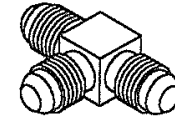
HYDRAULIC COMPONENTS



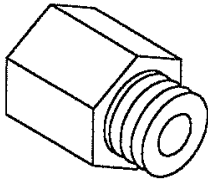
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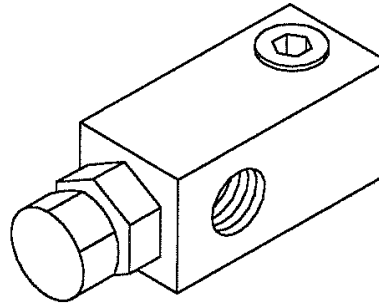
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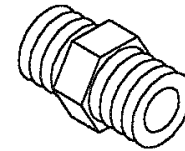
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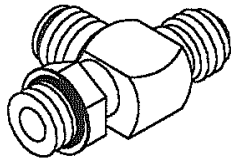
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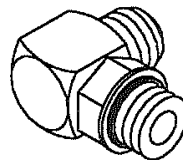
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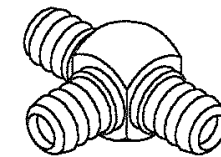
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201037



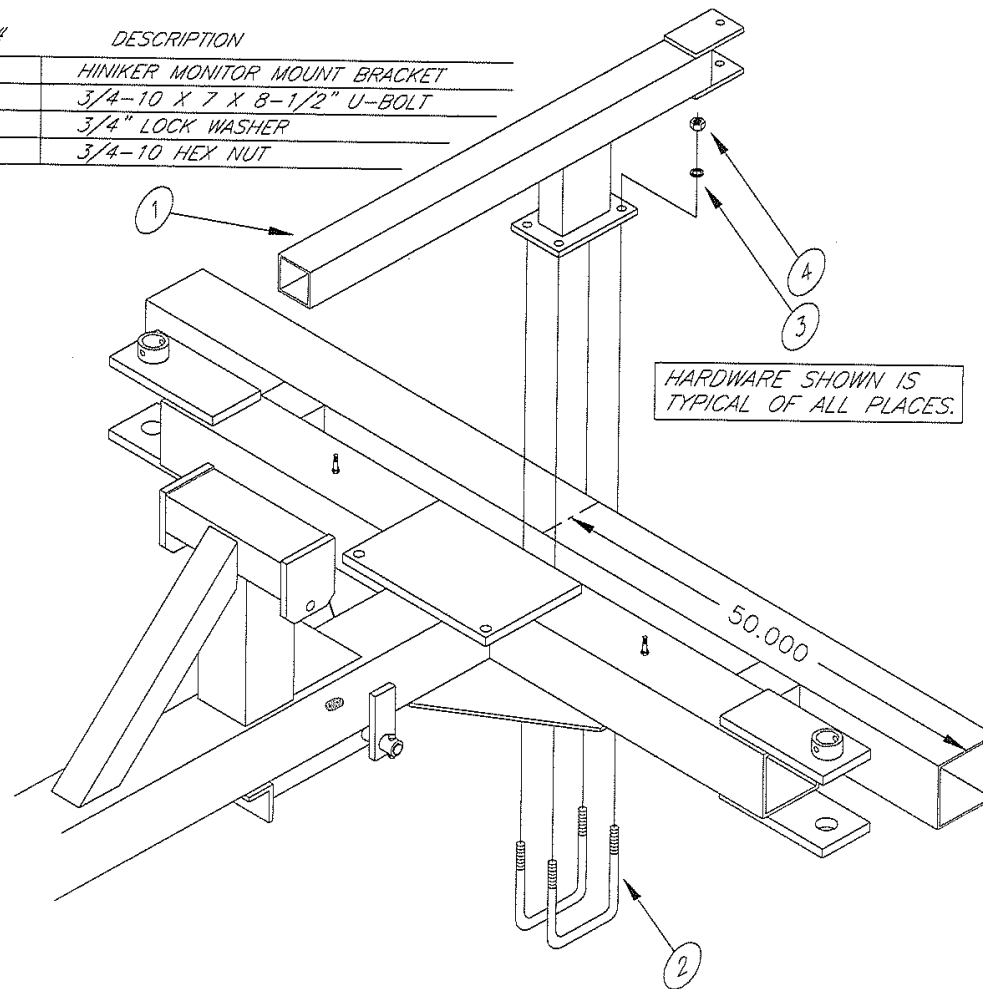
201002



201010

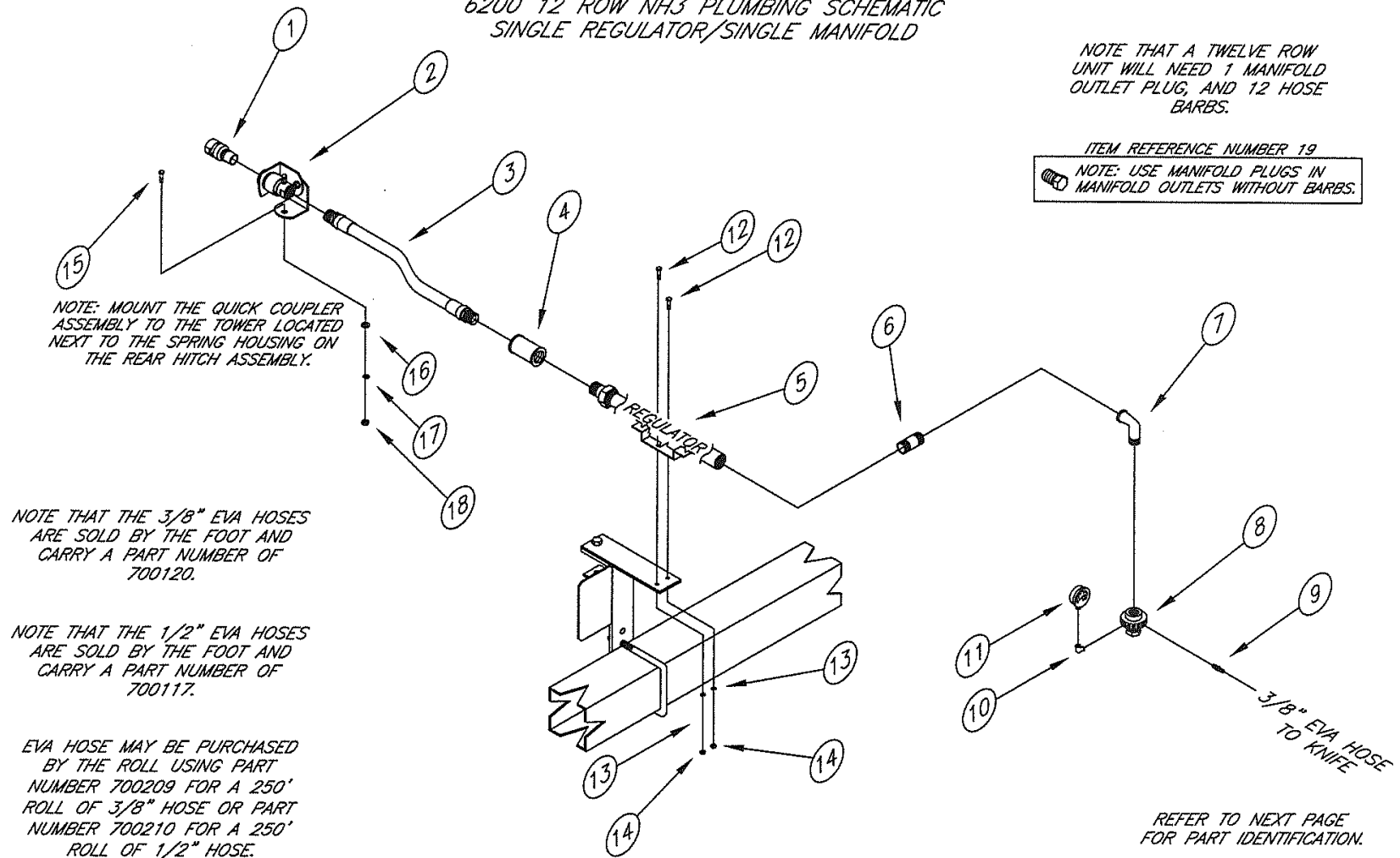
HINKER MONITOR BRACKET ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801769	HINKER MONITOR MOUNT BRACKET
2	2	101386	3/4-10 X 7 X 8-1/2" U-BOLT
3	8	101224	3/4" LOCK WASHER
4	8	101215	3/4-10 HEX NUT



REFERENCE# 3062A003 DATE: 12/05/08

6200 12 ROW NH3 PLUMBING SCHEMATIC
SINGLE REGULATOR/SINGLE MANIFOLD



REVISED: 10/01/01

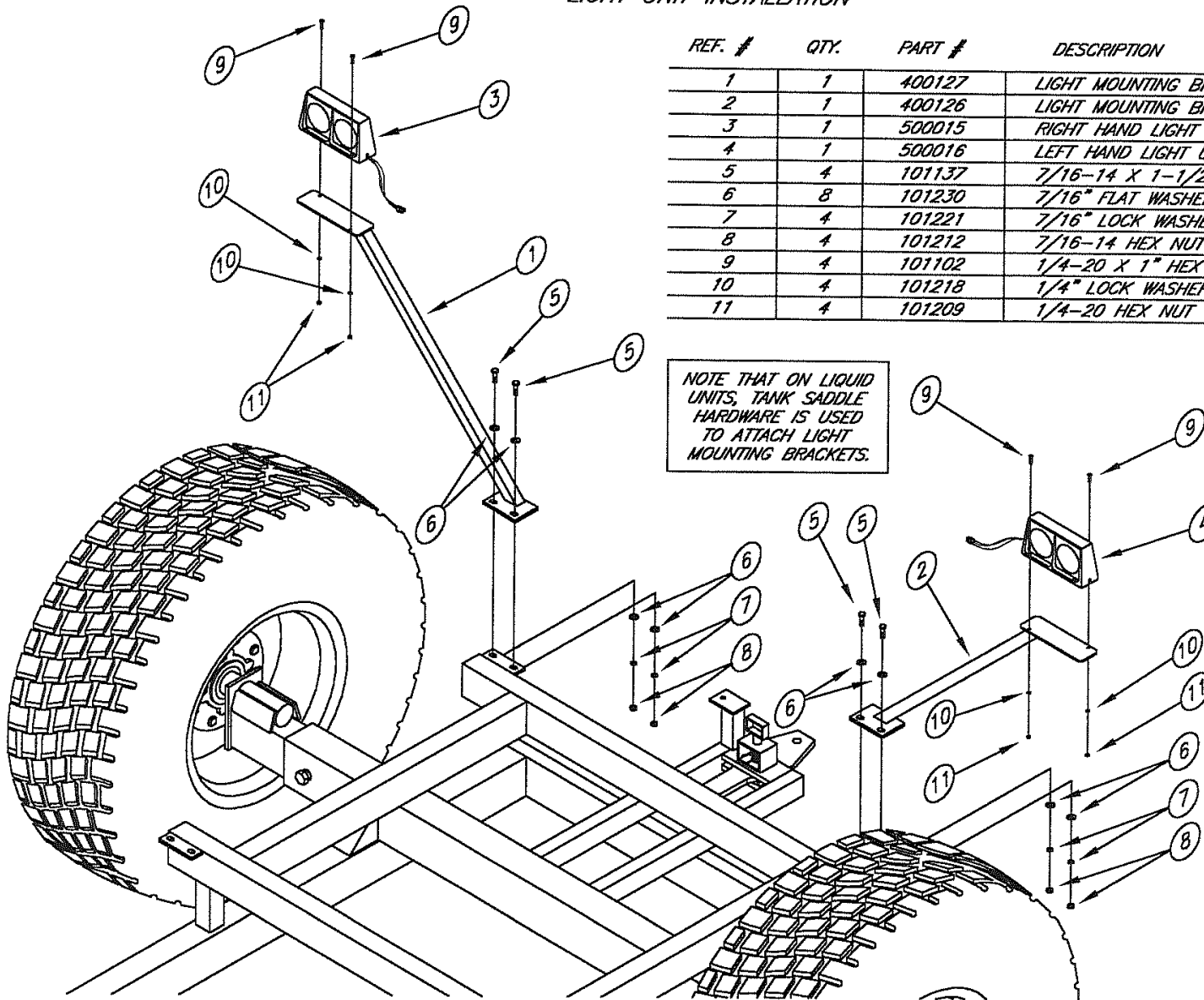
*6200 12 ROW NH3 PLUMBING SCHEMATIC
SINGLE REGULATOR/SINGLE MANIFOLD*

<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>
<i>1</i>	<i>1</i>	<i>700278</i>	<i>1-1/4" MALE COUPLER TIP (NH3)</i>
<i>2</i>	<i>1</i>	<i>700276</i>	<i>1-1/4" QUICK COUPLER ASSEMBLY</i>
<i>3</i>	<i>1</i>	<i>700301</i>	<i>1-1/4" AA HOSE X 120" LONG</i>
<i>4</i>	<i>1</i>	<i>700275</i>	<i>1-1/4" SCHEDULE 80 COUPLER</i>
<i>5</i>	<i>1</i>	<i>700273</i>	<i>NH3/B9500 METER W/ HYDRAULIC SHUT-OFF</i>
<i>6</i>	<i>1</i>	<i>700257</i>	<i>1" CLOSE NIPPLE - BLACK PIPE</i>
<i>7</i>	<i>1</i>	<i>700256</i>	<i>1" ST. ELBOW - BLACK PIPE</i>
<i>8</i>	<i>1</i>	<i>700272</i>	<i>NH3 MANIFOLD - 14 OUTLET</i>
<i>9</i>	<i>12</i>	<i>700277</i>	<i>1/4 MNPT X 3/8" HOSE BARB</i>
<i>-</i>	<i>12</i>	<i>700208</i>	<i>1/4 MNPT X 1/2" HOSE BARB</i>
<i>10</i>	<i>1</i>	<i>700254</i>	<i>1/4" MNPT X 1/4" FNPT ELBOW - BLACK PIPE</i>
<i>11</i>	<i>1</i>	<i>700235A</i>	<i>2-1/2" NH3 GAUGE 0-120 psi</i>
<i>12</i>	<i>2</i>	<i>101125</i>	<i>3/8-16 X 1" HEX BOLT</i>
<i>13</i>	<i>2</i>	<i>101220</i>	<i>3/8" LOCK WASHER</i>
<i>14</i>	<i>2</i>	<i>101211</i>	<i>3/8-16 HEX NUT</i>
<i>15</i>	<i>1</i>	<i>101148</i>	<i>1/2-13 X 1-1/2" HEX BOLT</i>
<i>16</i>	<i>1</i>	<i>101231</i>	<i>1/2" FLAT WASHER</i>
<i>17</i>	<i>1</i>	<i>101222</i>	<i>1/2" LOCK WASHER</i>
<i>18</i>	<i>1</i>	<i>101213</i>	<i>1/2-13 HEX NUT</i>
<i>19</i>	<i>1</i>	<i>700211</i>	<i>1/4" MNPT X 1/2" MANIFOLD PLUG</i>

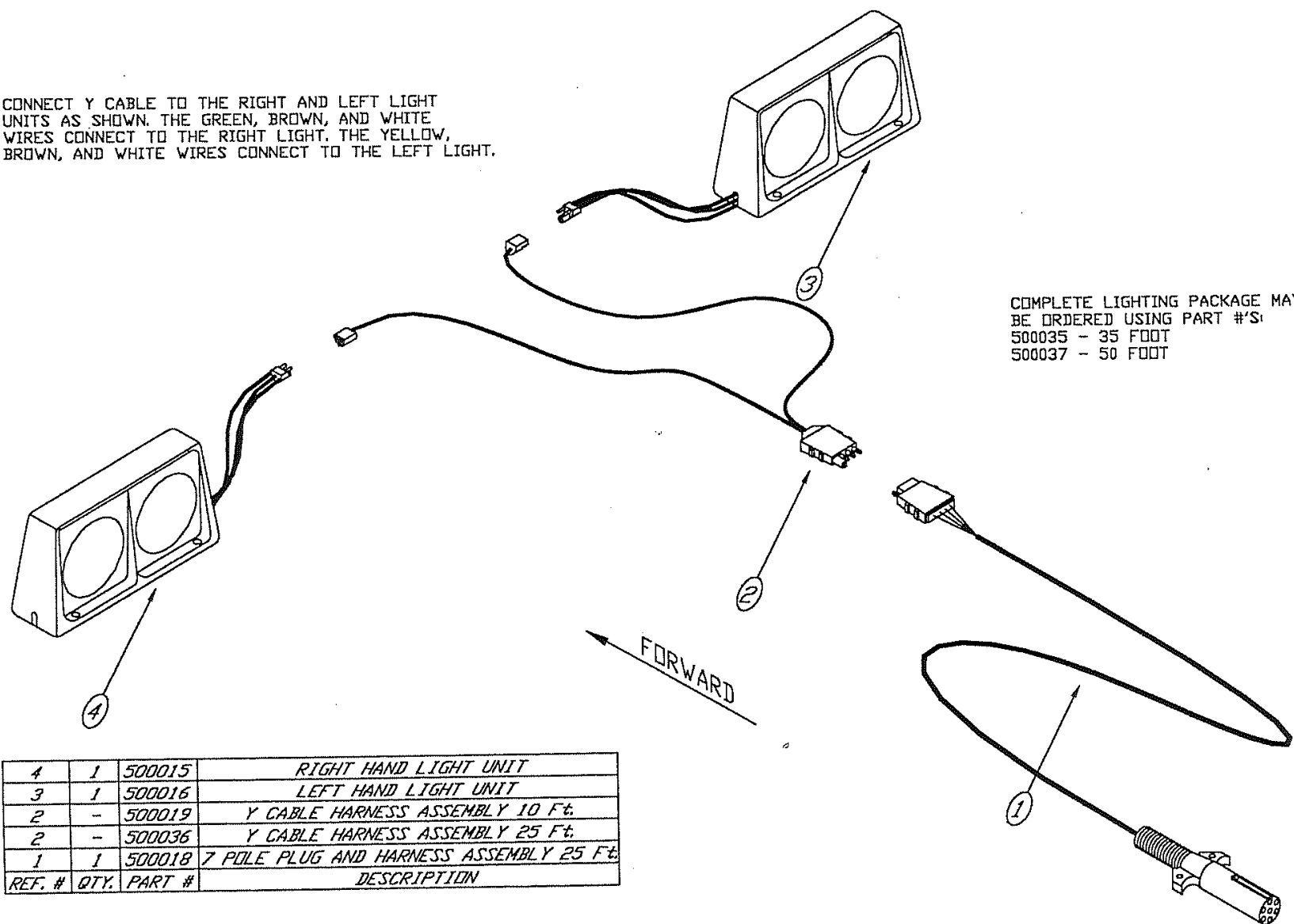
LIGHT UNIT INSTALLATION

REF. #	QTY.	PART #	DESCRIPTION
1	1	400127	LIGHT MOUNTING BRACKET (RIGHT)
2	1	400126	LIGHT MOUNTING BRACKET (LEFT)
3	1	500015	RIGHT HAND LIGHT UNIT
4	1	500016	LEFT HAND LIGHT UNIT
5	4	101137	7/16-14 X 1-1/2" HEX BOLT
6	8	101230	7/16" FLAT WASHER
7	4	101221	7/16" LOCK WASHER
8	4	101212	7/16-14 HEX NUT
9	4	101102	1/4-20 X 1" HEX BOLT
10	4	101218	1/4" LOCK WASHER
11	4	101209	1/4-20 HEX NUT

NOTE THAT ON LIQUID
UNITS, TANK SADDLE
HARDWARE IS USED
TO ATTACH LIGHT
MOUNTING BRACKETS.



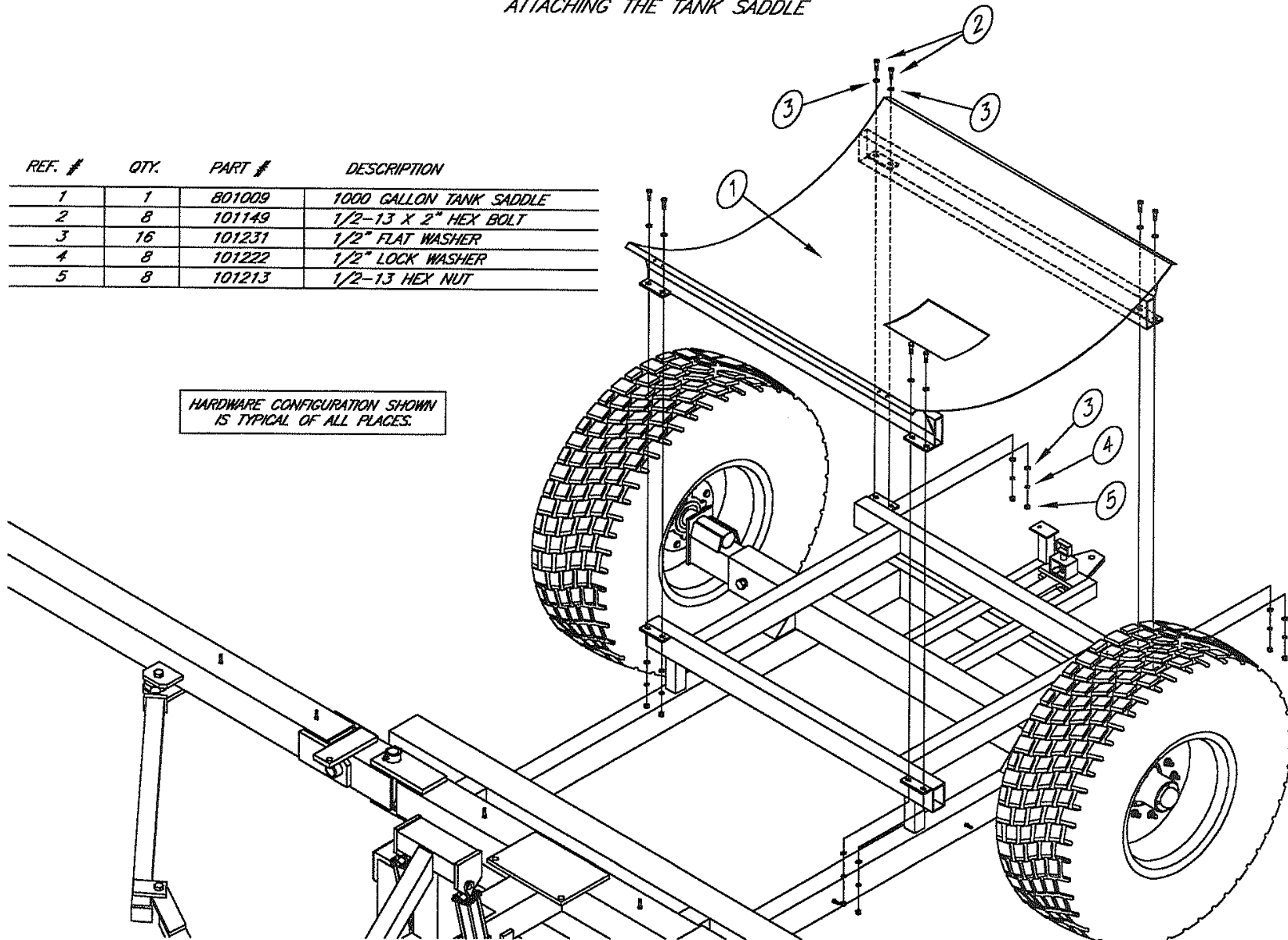
CONNECT Y CABLE TO THE RIGHT AND LEFT LIGHT
UNITS AS SHOWN. THE GREEN, BROWN, AND WHITE
WIRES CONNECT TO THE RIGHT LIGHT. THE YELLOW,
BROWN, AND WHITE WIRES CONNECT TO THE LEFT LIGHT.



ATTACHING THE TANK SADDLE

REF. #	QTY.	PART #	DESCRIPTION
1	1	801009	1000 GALLON TANK SADDLE
2	8	101149	1/2-13 X 2" HEX BOLT
3	16	101231	1/2" FLAT WASHER
4	8	101222	1/2" LOCK WASHER
5	8	101213	1/2-13 HEX NUT

HARDWARE CONFIGURATION SHOWN
IS TYPICAL OF ALL PLACES.



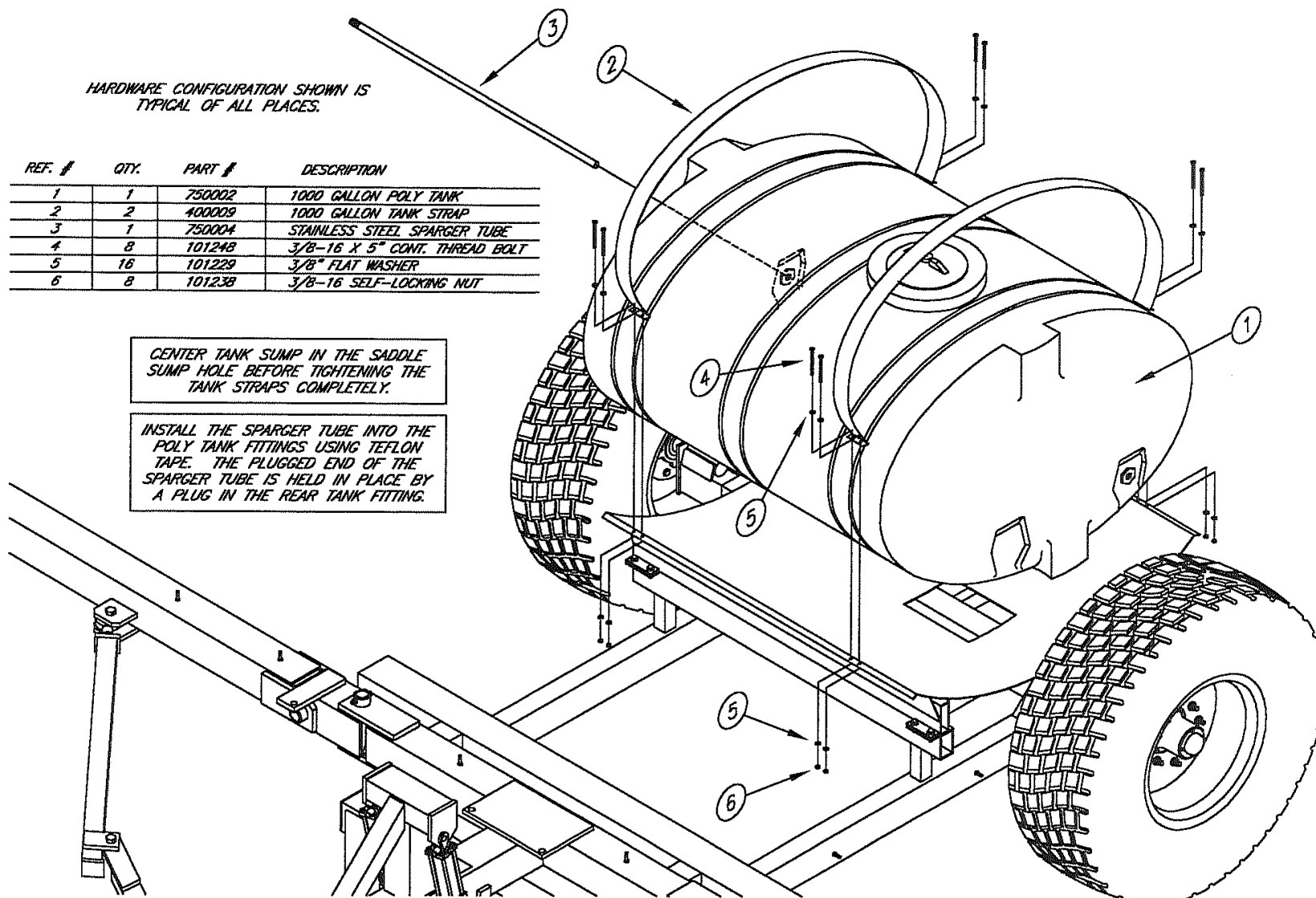
ATTACHING THE 1000 GALLON TANK

HARDWARE CONFIGURATION SHOWN IS
TYPICAL OF ALL PLACES.

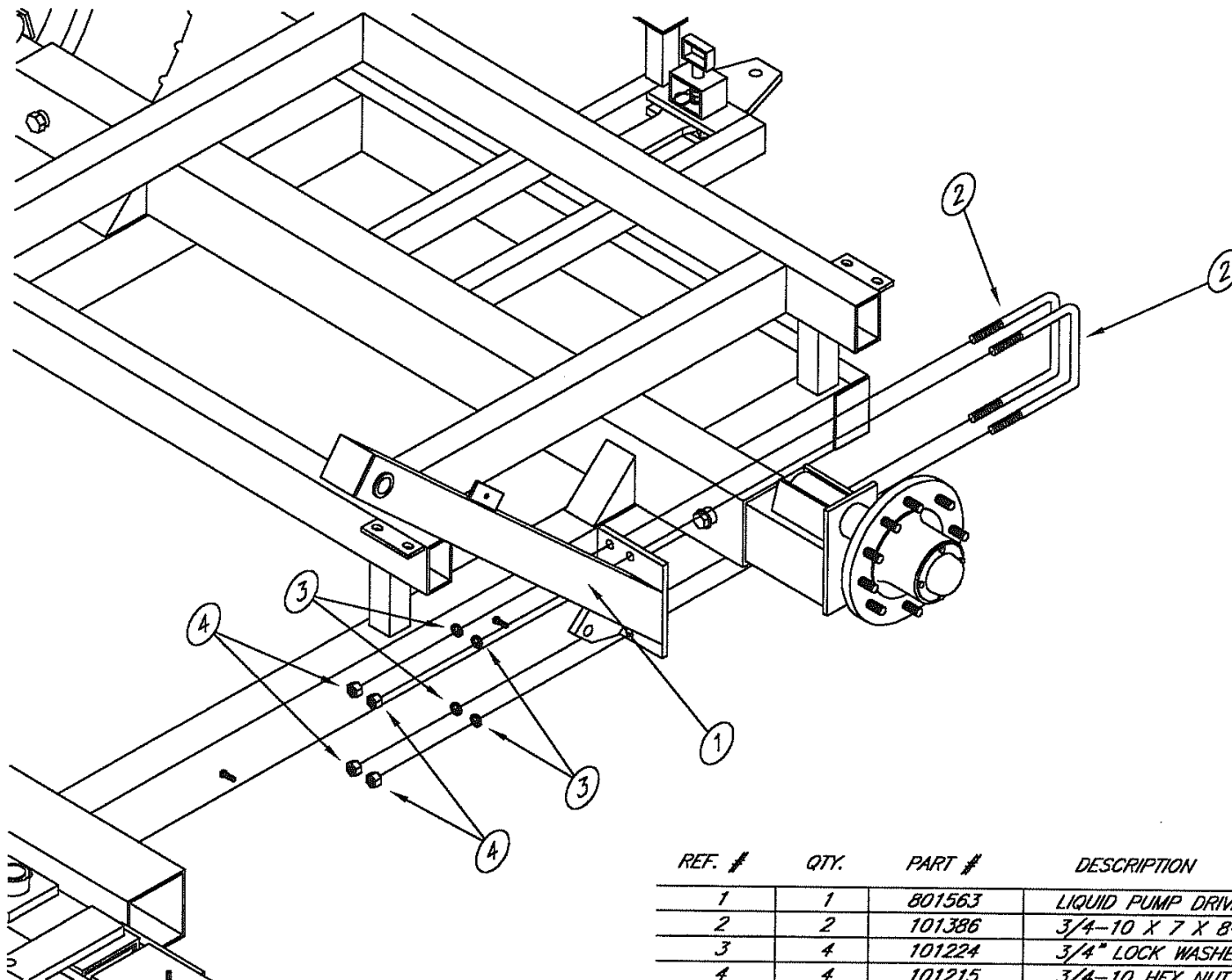
REF. #	QTY.	PART #	DESCRIPTION
1	1	750002	1000 GALLON POLY TANK
2	2	400009	1000 GALLON TANK STRAP
3	1	750004	STAINLESS STEEL SPARGER TUBE
4	8	101248	3/8-16 X 5" CONT. THREAD BOLT
5	16	101229	3/8" FLAT WASHER
6	8	101238	3/8-16 SELF-LOCKING NUT

CENTER TANK SUMP IN THE SADDLE
SUMP HOLE BEFORE TIGHTENING THE
TANK STRAPS COMPLETELY.

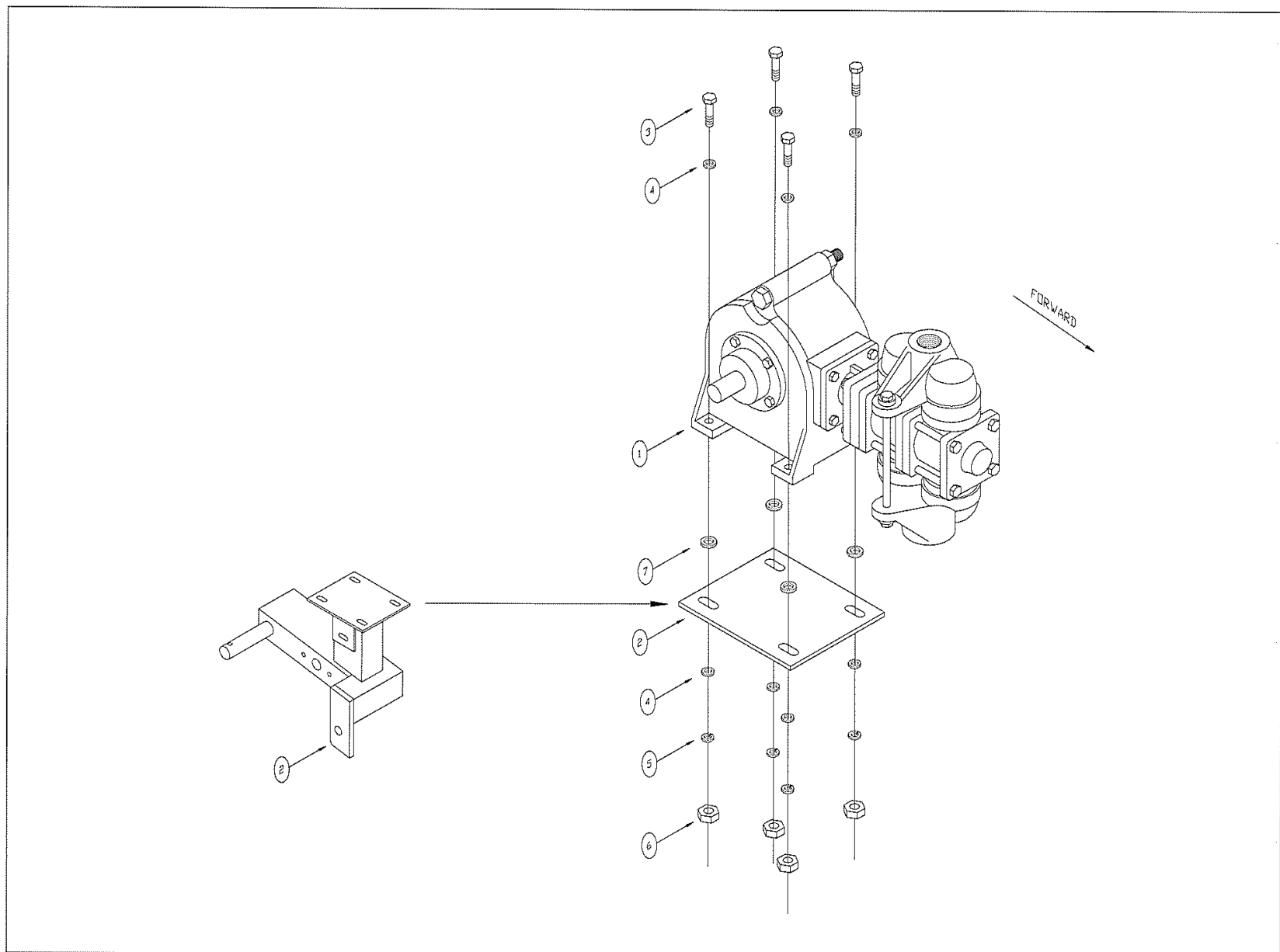
INSTALL THE SPARGER TUBE INTO THE
POLY TANK FITTINGS USING TEFLON
TAPE. THE PLUGGED END OF THE
SPARGER TUBE IS HELD IN PLACE BY
A PLUG IN THE REAR TANK FITTING.



LIQUID PUMP DRIVE ARM ASSEMBLY



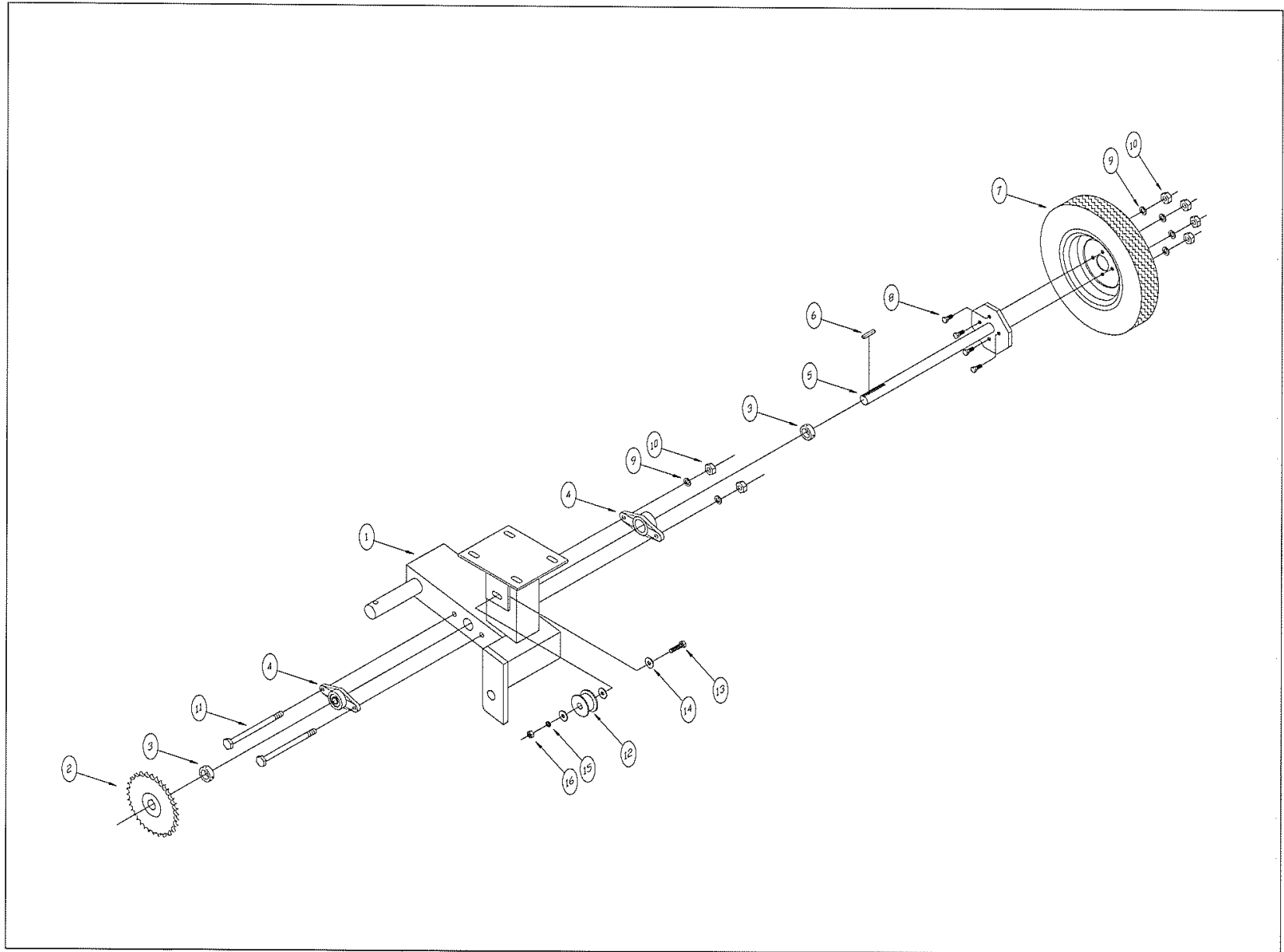
REF. #	QTY.	PART #	DESCRIPTION
1	1	801563	LIQUID PUMP DRIVE ARM UNIT
2	2	101386	3/4-10 X 7 X 8-1/2" U-BOLT
3	4	101224	3/4" LOCK WASHER
4	4	101215	3/4-10 HEX NUT



REFERENCE# JDNBLUPMP	DATE 10/09/06	REV
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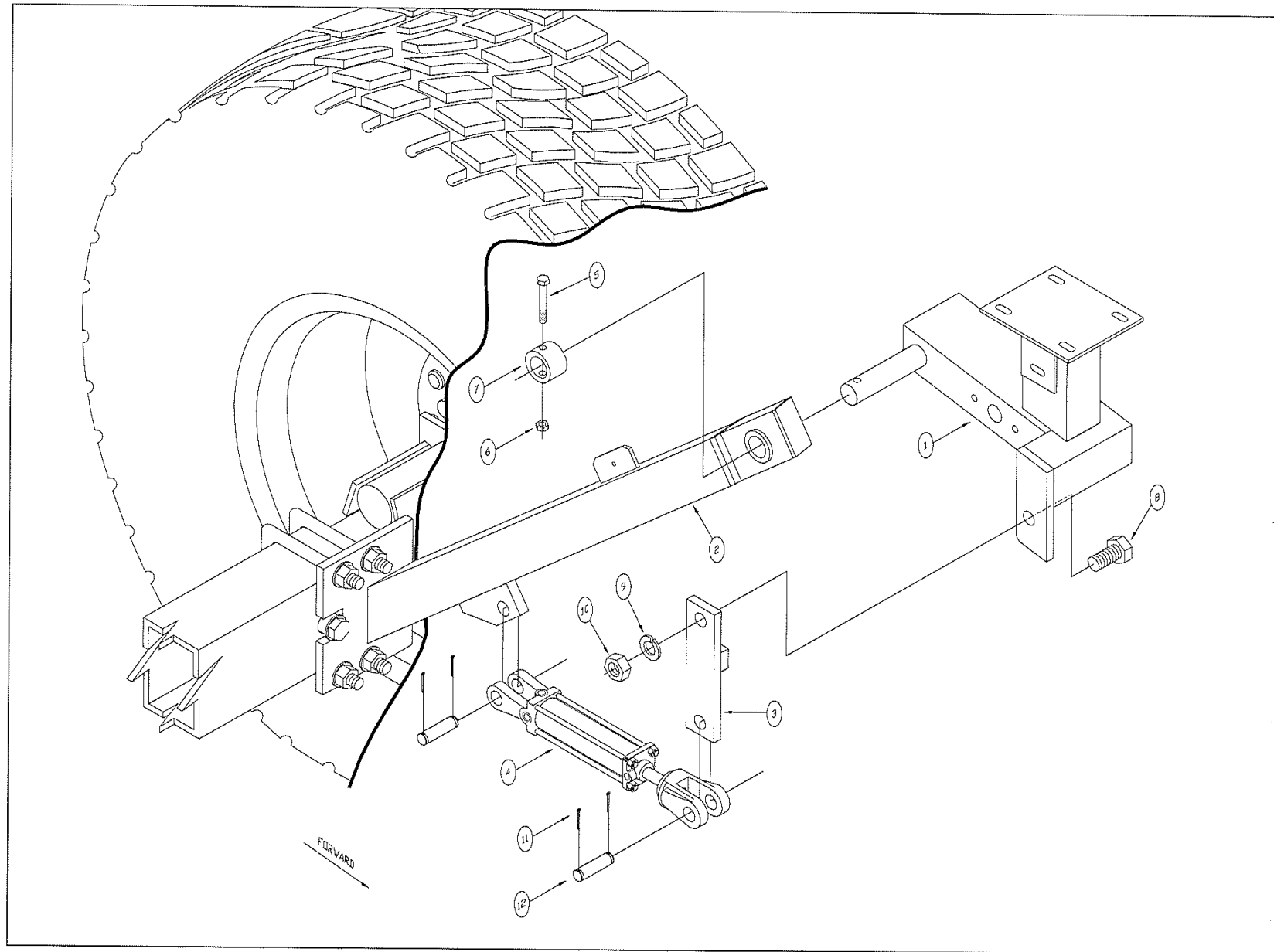
[illegible]

ITEM #2 PATIALLY REMOVED FOR CLARITY,
ITEM #7 INCLUDED WITH JOHN BLUE PUMP.



REFERENCE # GDPMPSHFT	DATE 10/03/06	REV
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[illegible]

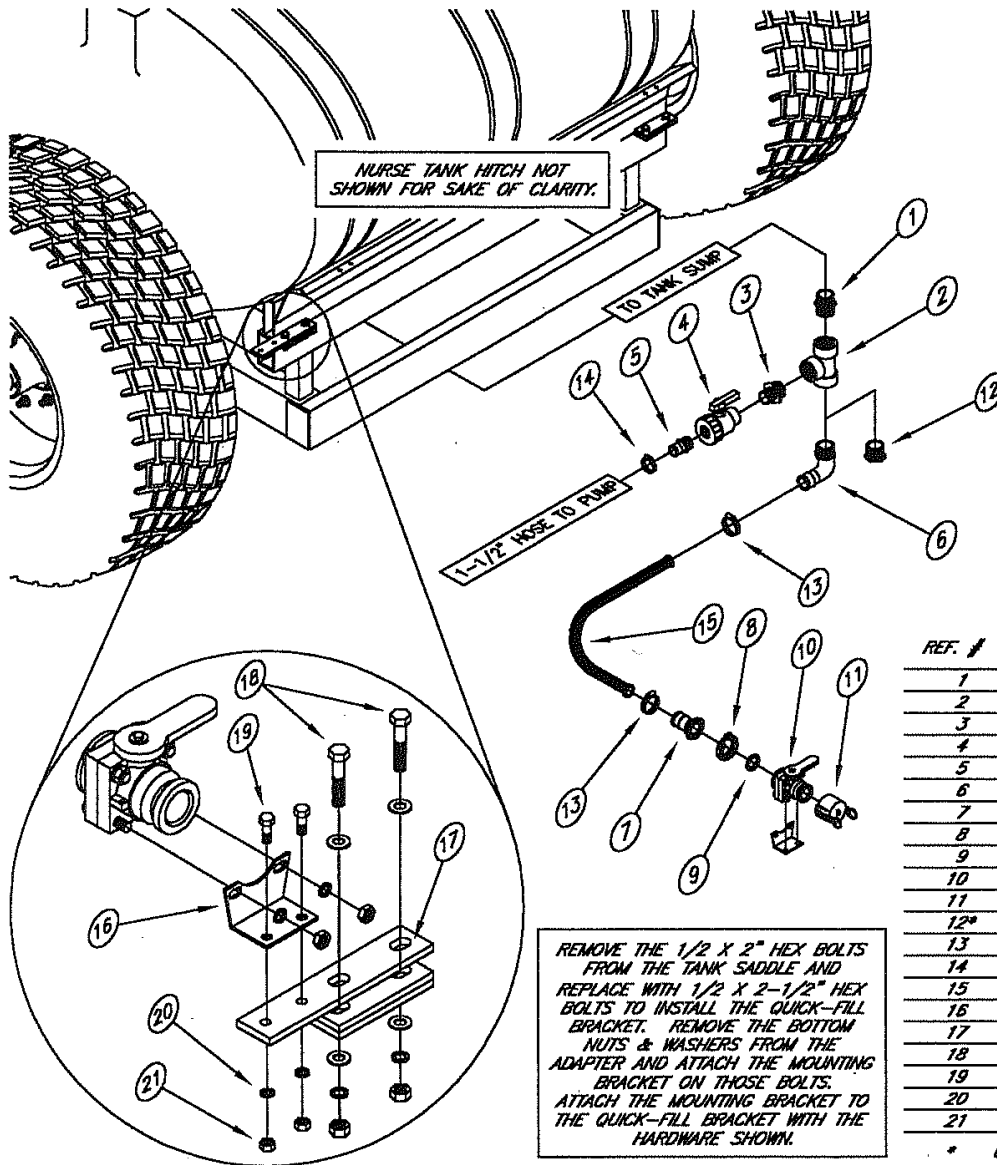


REFERENCE# GDPMPMNT	DATE 10/03/06	REV#
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NOTES:

[illegible]

OPTIONAL QUICK-FILL PLUMBING SCHEMATIC



RECOMMENDED: USE RECTORSEAL NO. 5, NO. 7, OR NO. 21 ON POLY FITTINGS WITH THREADS INSTEAD OF TEFLON TAPE.

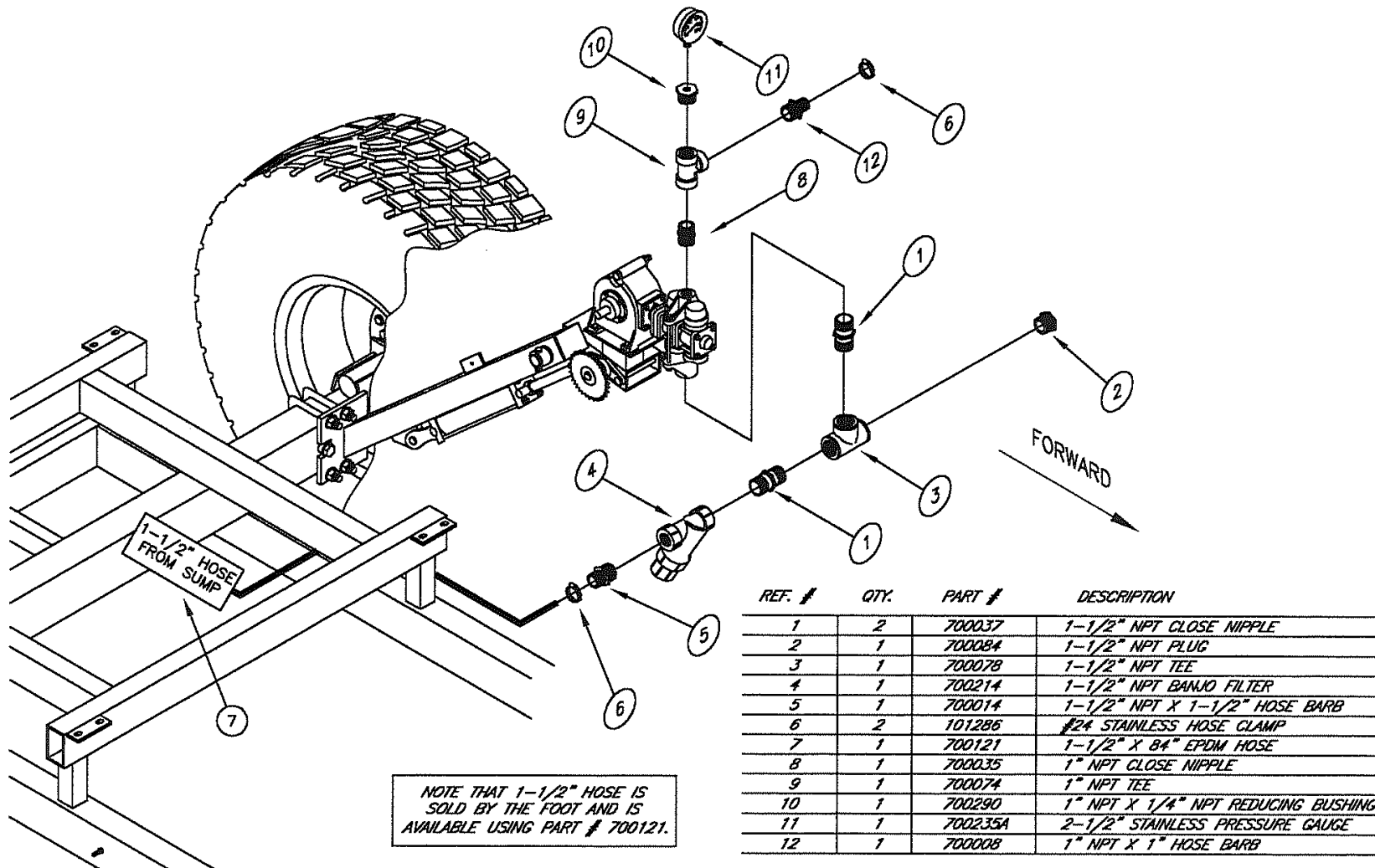
NOTE: 1-1/2" HOSE IS SOLD BY THE FOOT AND IS AVAILABLE USING PART # 700121.

NOTE: 2" HOSE IS SOLD BY THE FOOT AND IS AVAILABLE USING PART # 700124.

REF. #	QTY.	PART #	DESCRIPTION
1	1	700038	2" MNPT CLOSE NIPPLE
2	1	700077	2" FNPT TEE
3	1	700186	2" MNPT X 1-1/2" MNPT REDUCING NIPPLE
4	1	700171A	1-1/2" NPT GATE VALVE
5	1	700014	1-1/2" MNPT X 1-1/2" HOSE BARB
6	1	700027	2" MNPT X 2" HOSE BARB ELBOW
7	1	700187	2" FLANGE X 2" HOSE BARB
8	1	700188	2" WORM SCREW CLAMP
9	1	700189	2" EPDM GASKET
10	1	700190	2" MALE ADAPTER X 2" C-FLANGE
11	1	700191	2" CAP FOR MALE ADAPTER
12*	1	700085	2" MNPT PLUG
13	2	700130	2" STAINLESS HOSE CLAMP
14	1	700129	1-1/2" STAINLESS HOSE CLAMP
15	1	700124	2" X 36" EPDM HOSE
16	1	700192	90° STAINLESS MOUNTING BRACKET
17	1	400188	3/8 X 2 X 10" - QUICK-FILL BRACKET
18	2	101150	1/2-13 X 2-1/2" HEX BOLT
19	2	101125	3/8-16 X 1" HEX BOLT
20	2	101220	3/8" LOCK WASHER
21	2	101211	3/8-16 HEX NUT

* USED WHEN QUICK-FILL OPTION IS NOT USED.

JOHN BLUE PUMP PLUMBING SCHEMATIC



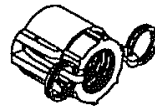
PLUMBING COMPONENTS



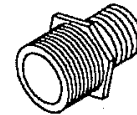
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700235A



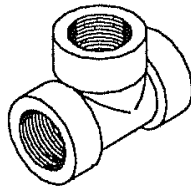
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700008



700084



700076



700290



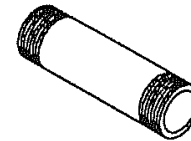
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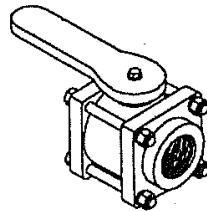
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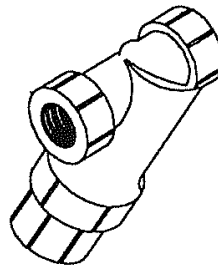
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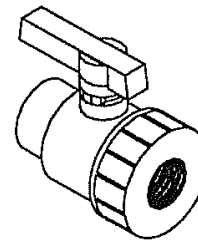
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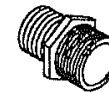
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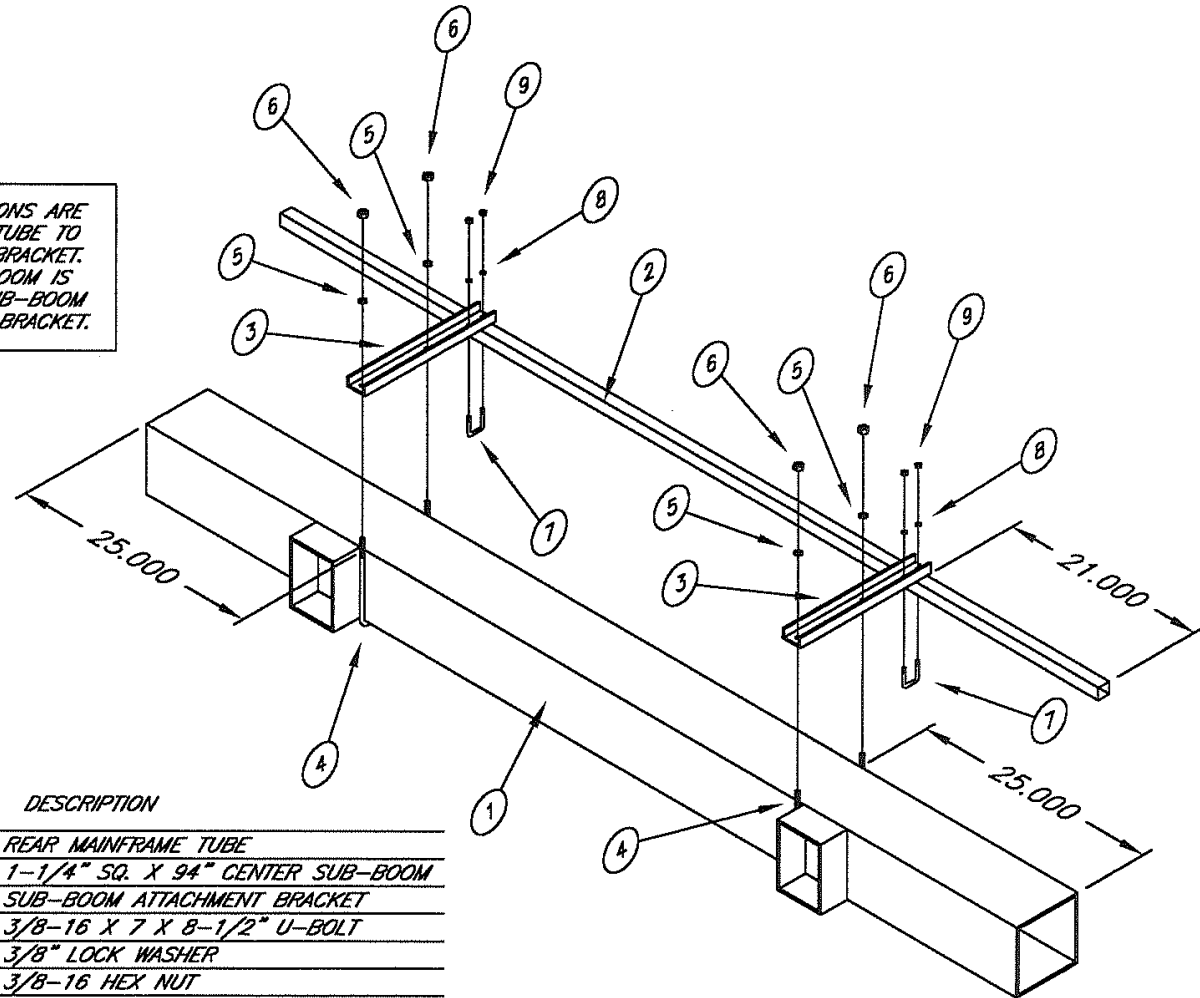
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700014

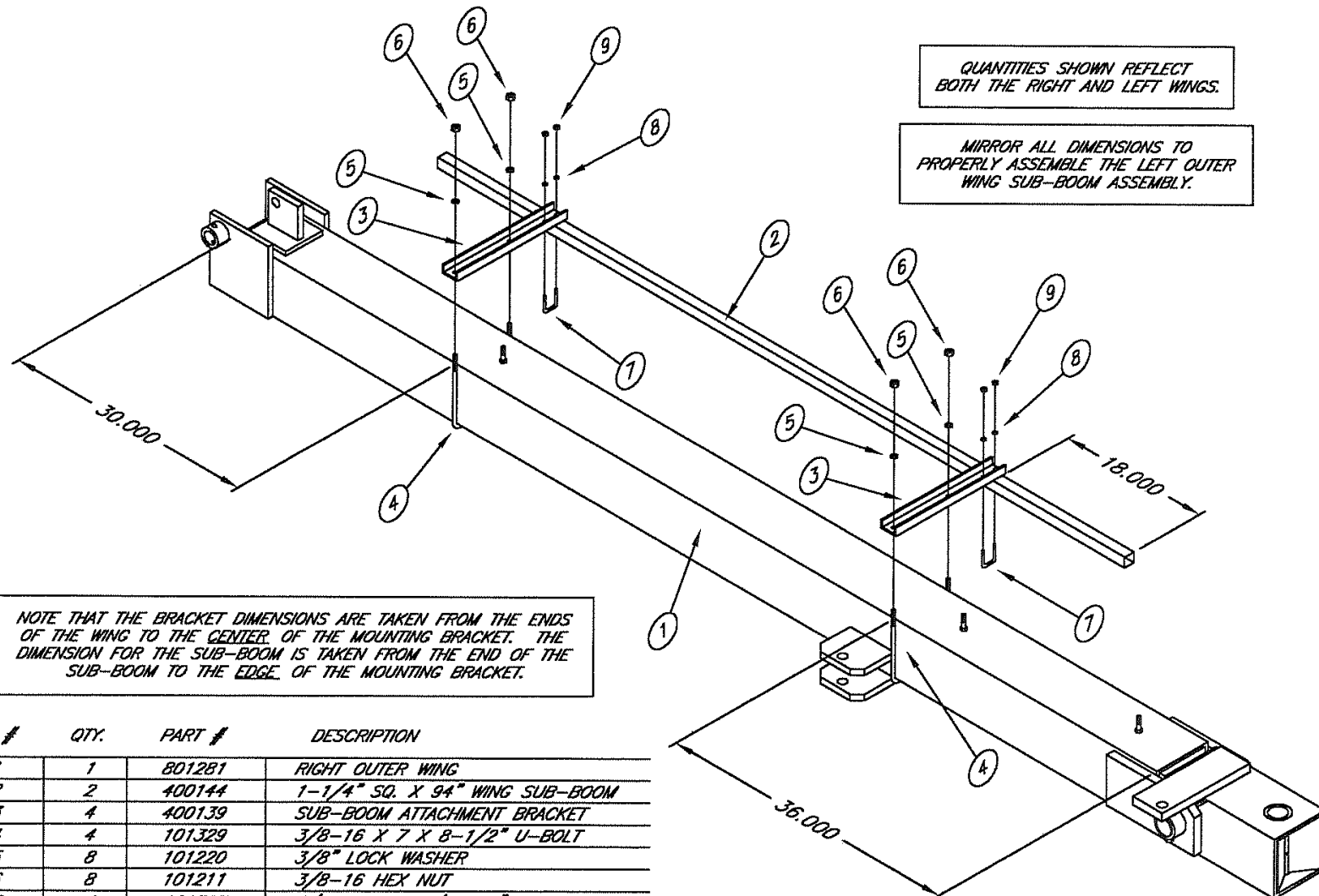
CENTER SECTION SUB-BOOM ATTACHMENT

NOTE THAT THE BRACKET DIMENSIONS ARE TAKEN FROM THE ENDS OF THE TUBE TO THE CENTER OF THE MOUNTING BRACKET. THE DIMENSION FOR THE SUB-BOOM IS TAKEN FROM THE END OF THE SUB-BOOM TO THE EDGE OF THE MOUNTING BRACKET.



REF. #	QTY.	PART #	DESCRIPTION
1	1	—	REAR MAINFRAME TUBE
2	1	400144	1-1/4" SQ. X 94" CENTER SUB-BOOM
3	2	400139	SUB-BOOM ATTACHMENT BRACKET
4	2	101329	3/8-16 X 7 X 8-1/2" U-BOLT
5	4	101220	3/8" LOCK WASHER
6	4	101211	3/8-16 HEX NUT
7	2	101323	1/4-20 X 1-1/4 X 2" U-BOLT
8	4	101218	1/4" LOCK WASHER
9	4	101209	1/4-20 HEX NUT

RIGHT WING SUB-BOOM ATTACHMENT

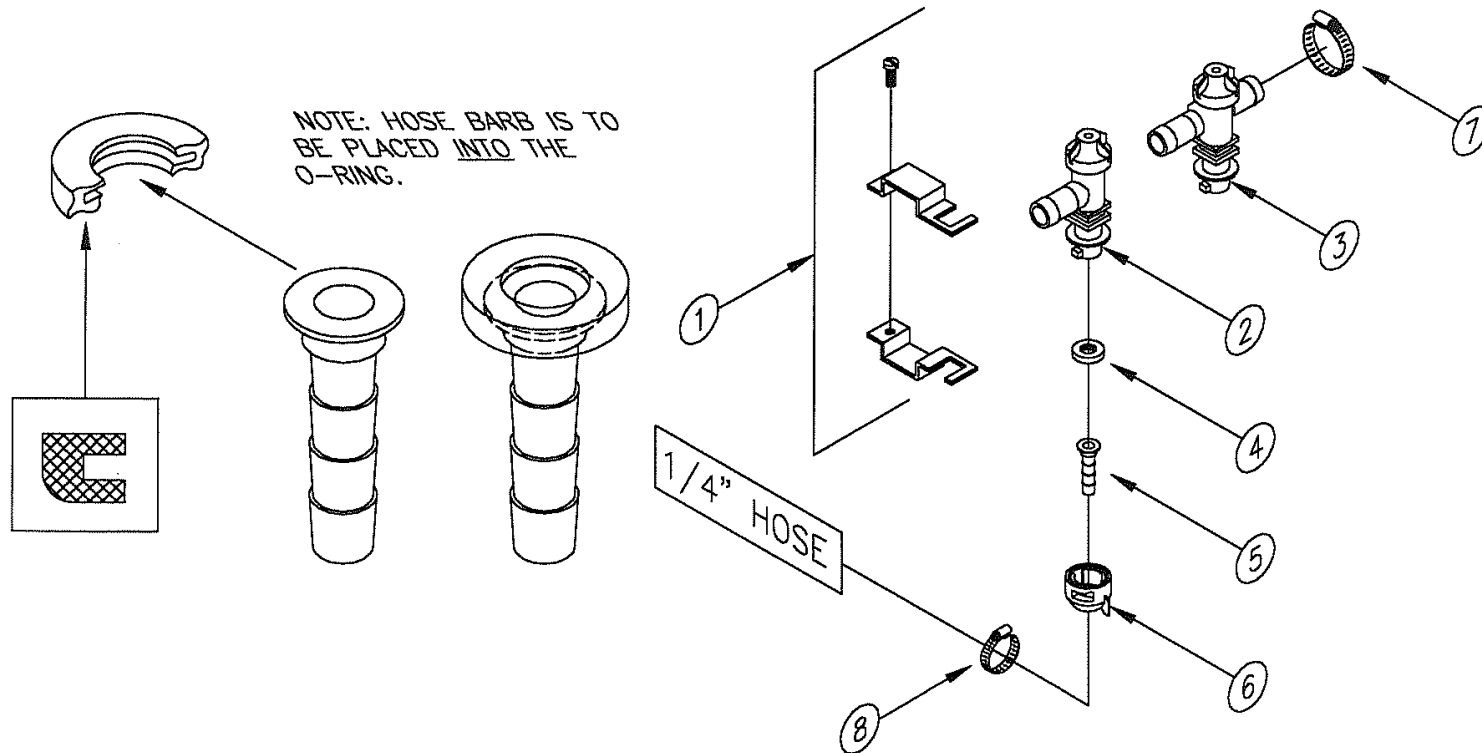


NOTE THAT THE BRACKET DIMENSIONS ARE TAKEN FROM THE ENDS OF THE WING TO THE CENTER OF THE MOUNTING BRACKET. THE DIMENSION FOR THE SUB-BOOM IS TAKEN FROM THE END OF THE SUB-BOOM TO THE EDGE OF THE MOUNTING BRACKET.

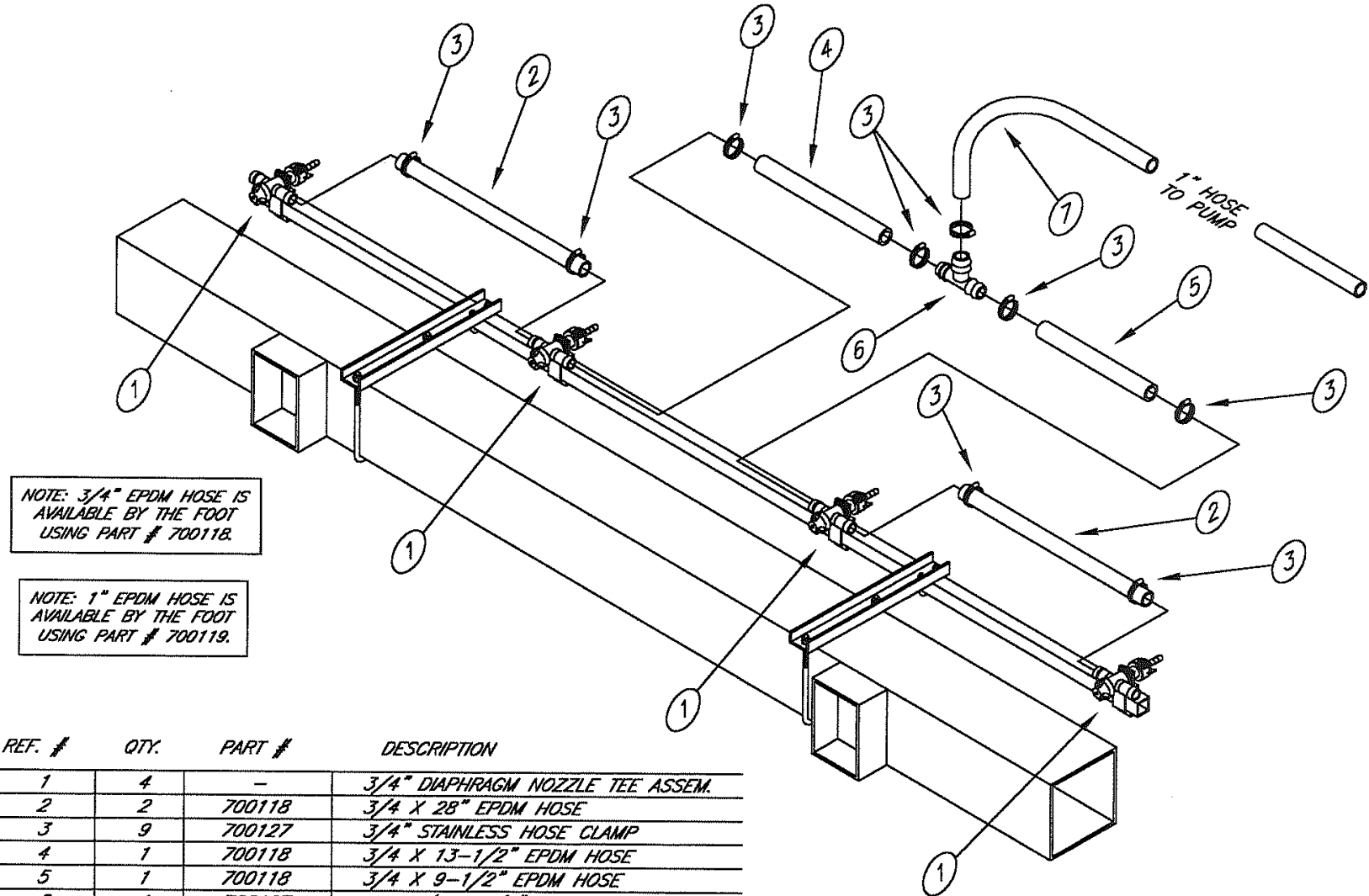
REF. #	QTY.	PART #	DESCRIPTION
1	1	801281	RIGHT OUTER WING
2	2	400144	1-1/4" SQ. X 94" WING SUB-BOOM
3	4	400139	SUB-BOOM ATTACHMENT BRACKET
4	4	101329	3/8-16 X 7 X 8-1/2" U-BOLT
5	8	101220	3/8" LOCK WASHER
6	8	101211	3/8-16 HEX NUT
7	4	101323	1/4-20 X 1-1/4 X 2" U-BOLT
8	8	101218	1/4" LOCK WASHER
9	8	101209	1/4-20 HEX NUT

NOZZLE ASSEMBLY (EXPLODED)

REF. #	QTY.	PART #	DESCRIPTION
1	16	700203	1-1/4" SQUARE NOZZLE CLAMP
2	2	700199	3/4" DIAPHRAGM NOZZLE ELBOW
3	14	700201	3/4" DIAPHRAGM NOZZLE TEE
4	16	700305	SPLIT HOSE BARB O-RING
5	16	700302	1/4" HOSE BARB FOR NOZZLE CAP
6	16	700303	NOZZLE CAP - BLUE
7	32	700127	#12 STAINLESS STEEL HOSE CLAMP
8	16	700126	STAINLESS STEEL HOSE CLAMP

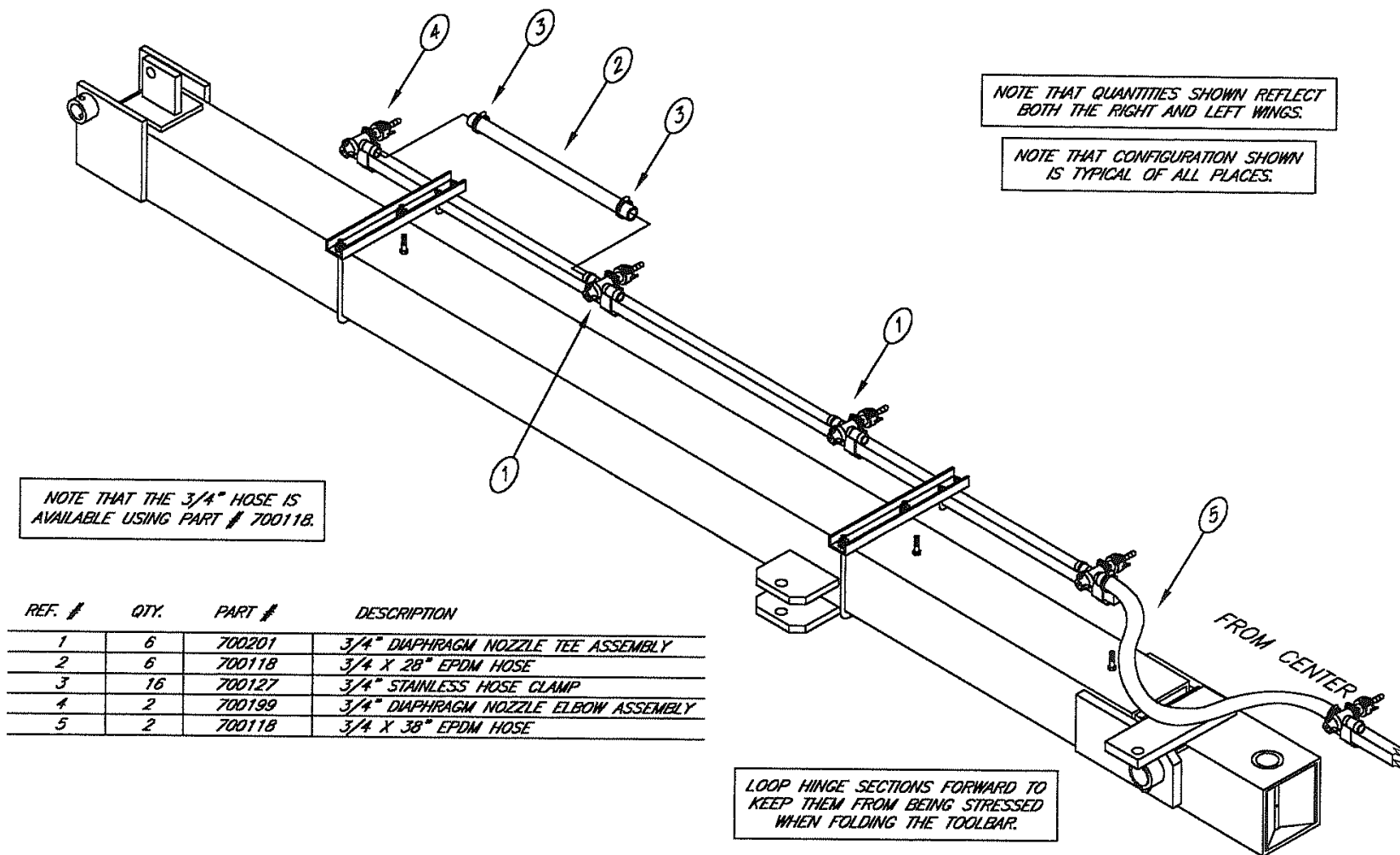


CENTER SECTION NOZZLE CONFIGURATION



REF. #	QTY.	PART #	DESCRIPTION
1	4	-	3/4" DIAPHRAGM NOZZLE TEE ASSEM.
2	2	700118	3/4 X 28" EPDM HOSE
3	9	700127	3/4" STAINLESS HOSE CLAMP
4	1	700118	3/4 X 13-1/2" EPDM HOSE
5	1	700118	3/4 X 9-1/2" EPDM HOSE
6	1	700197	1 X 3/4 X 3/4" BARB TEE
7	1	700119	1 X 84" EPDM HOSE

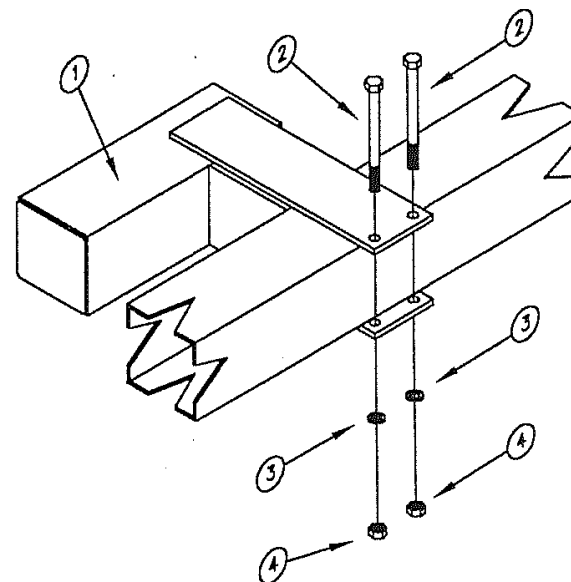
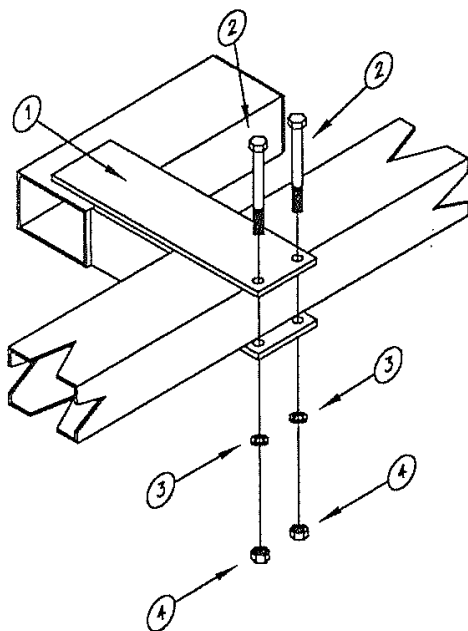
RIGHT WING NOZZLE CONFIGURATION



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.

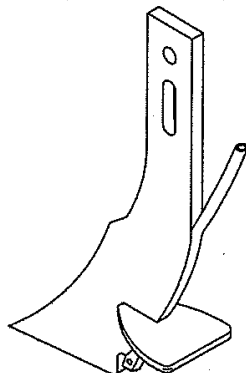


REF #	QTY	PART #	DESCRIPTION
1	1	801730	OFFSET BRACKET FOR 7 X 7 TUBE
2	2	101182	3/4-10 X 9" HEX BOLT
3	2	101224	3/4" LOCK WASHER
4	2	101215	3/4-10 HEX NUT

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

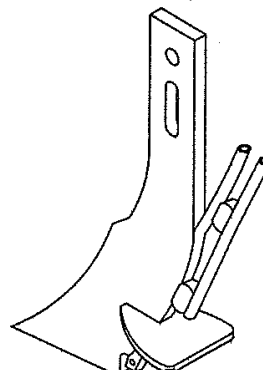
KNIFE OPTIONS

STANDARD KNIFE WITH
BEAVER TAIL SEALER



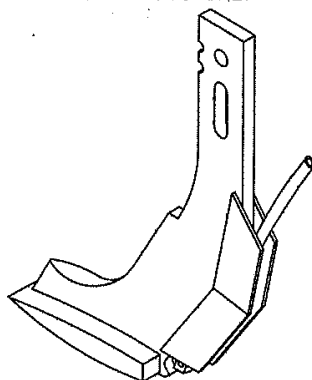
400099 3/8" NH3 TUBE
400191 1/2" NH3 TUBE

STANDARD KNIFE WITH
LIQUID TUBE



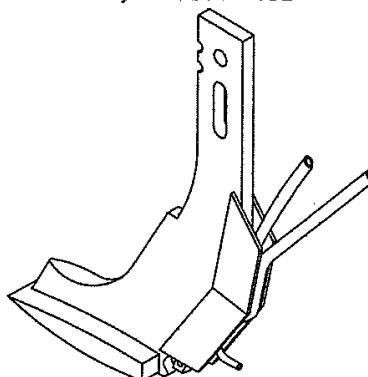
400190 3/8" NH3 TUBE
400192 1/2" NH3 TUBE

STANDARD MOLE KNIFE
ANHYDROUS ONLY



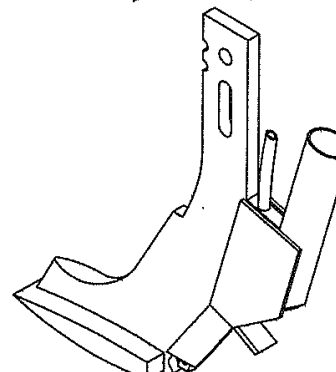
400197 3/8" NH3 TUBE
400195 1/2" NH3 TUBE

MOLE KNIFE WITH
3/8" LIQUID TUBE



900102 3/8" NH3 TUBE
900103 1/2" NH3 TUBE

MOLE KNIFE WITH
1-1/4" DRY TUBE

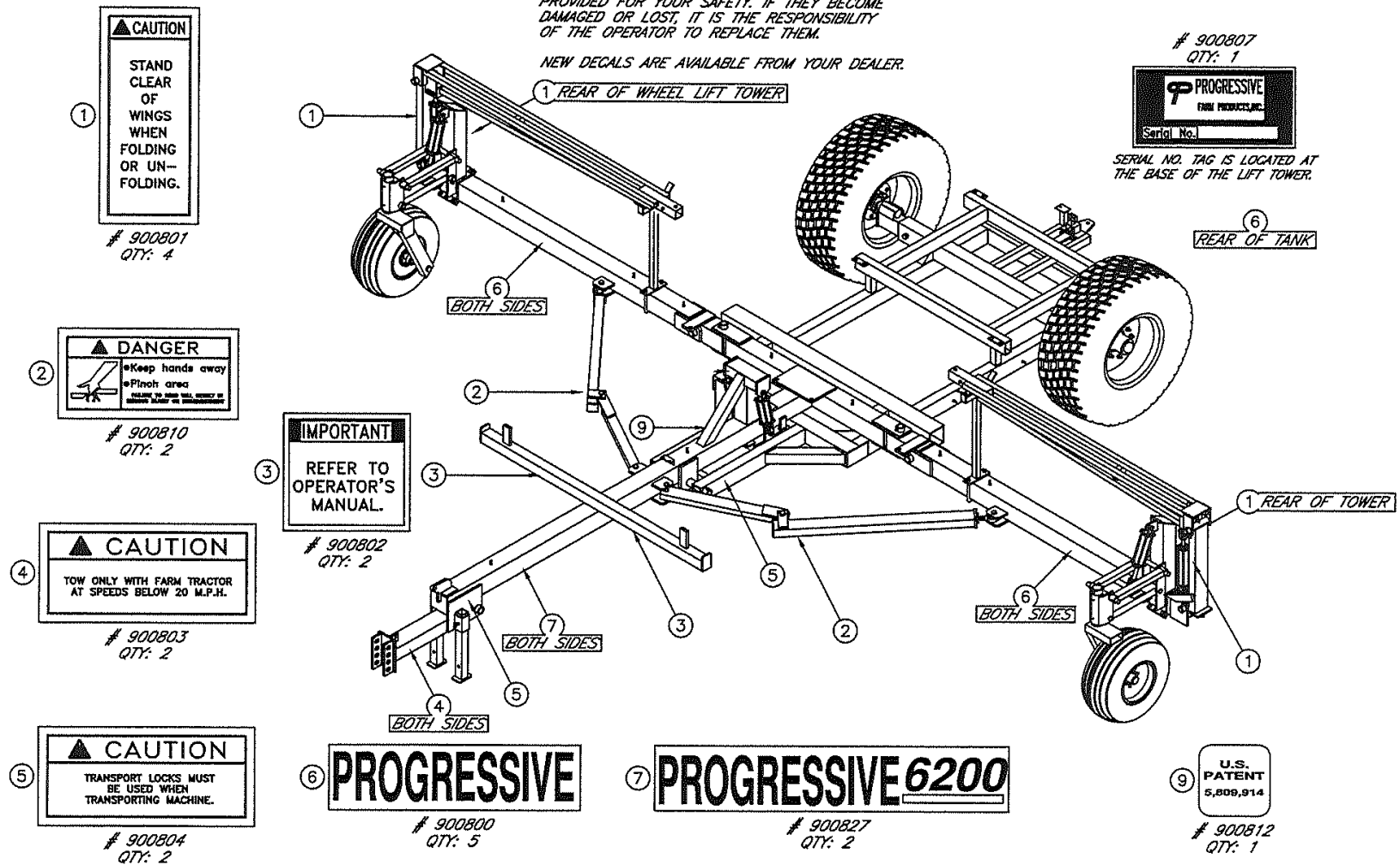


900100 3/8" NH3 TUBE
900101 1/2" NH3 TUBE

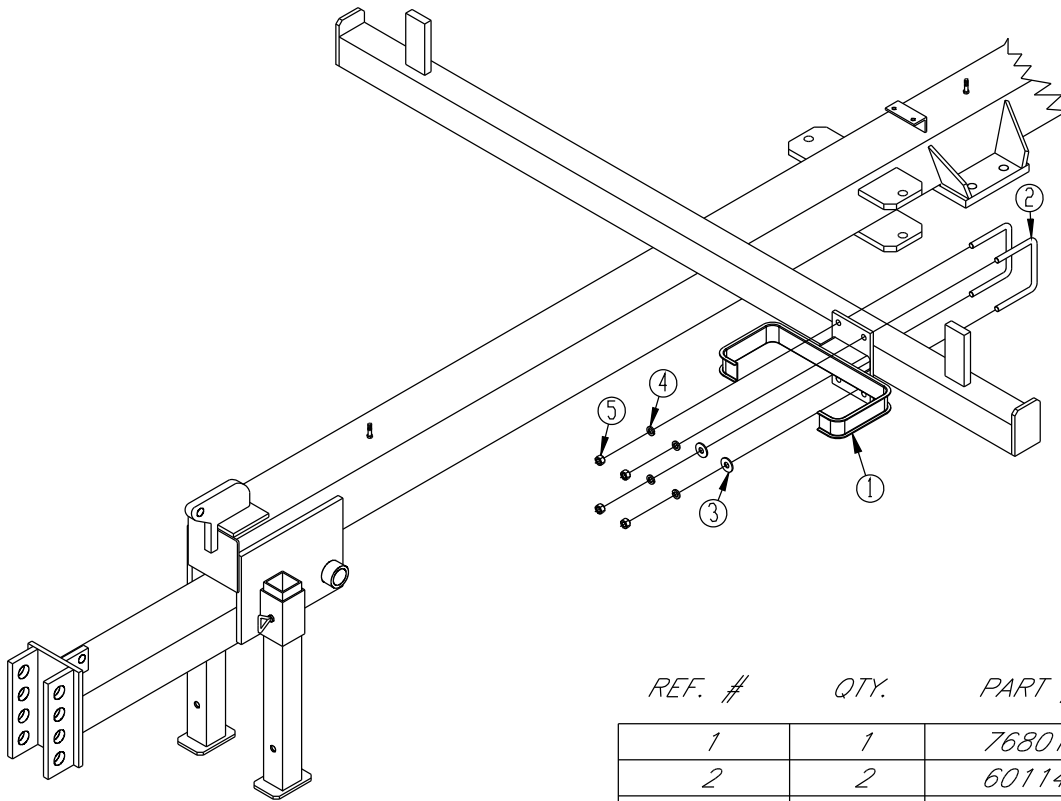
SERIAL NUMBER AND SAFETY DECAL LOCATIONS

THE DECALS ON THIS IMPLEMENT ARE PROVIDED FOR YOUR SAFETY. IF THEY BECOME DAMAGED OR LOST, IT IS THE RESPONSIBILITY OF THE OPERATOR TO REPLACE THEM.

NEW DECALS ARE AVAILABLE FROM YOUR DEALER.



ATTACHING THE WASH TANK BRACKET WELDMENT

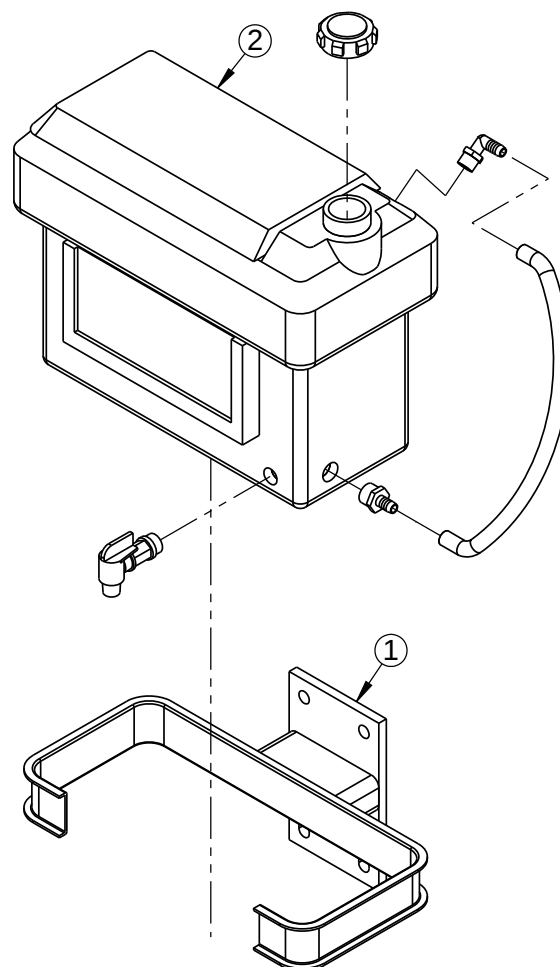


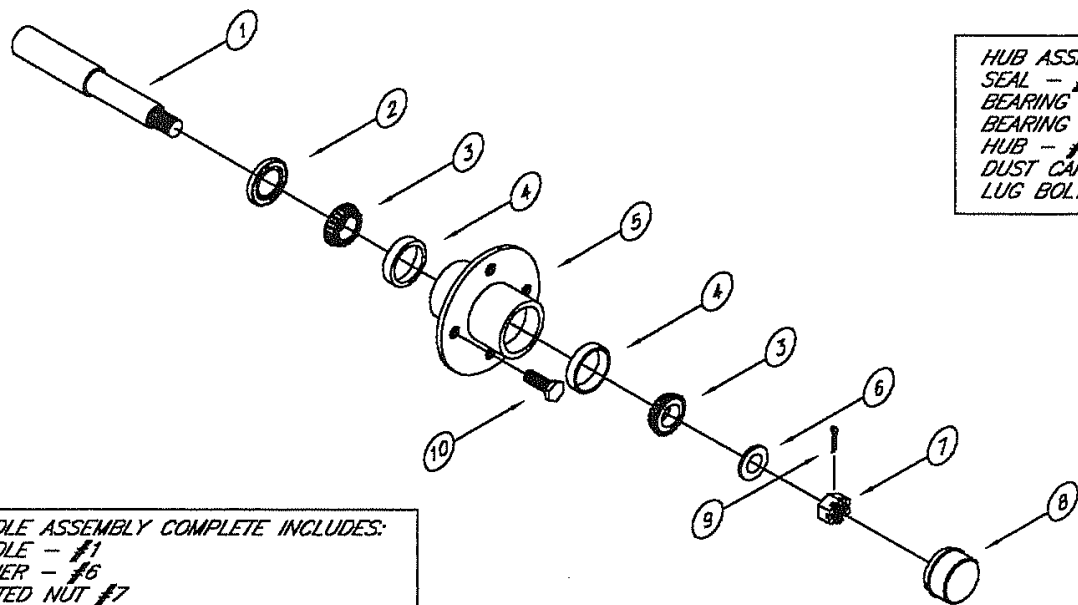
REF. #	QTY.	PART #	DESCRIPTION
1	1	768011021	WASH TANK BRACKET WELDMENT
2	2	601140514	U-BOLT 5/8" X 6" X 5-5/8"
3	2	600381020	FLAT WASHER 5/8"
4	4	600382054	LOCK WASHER 5/8"
5	4	600365014	STANDARD NUT 5/8" (PLATED)

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





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" I.D.
7	1	301153	SLOTTED NUT - 3/4-16 UNF
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

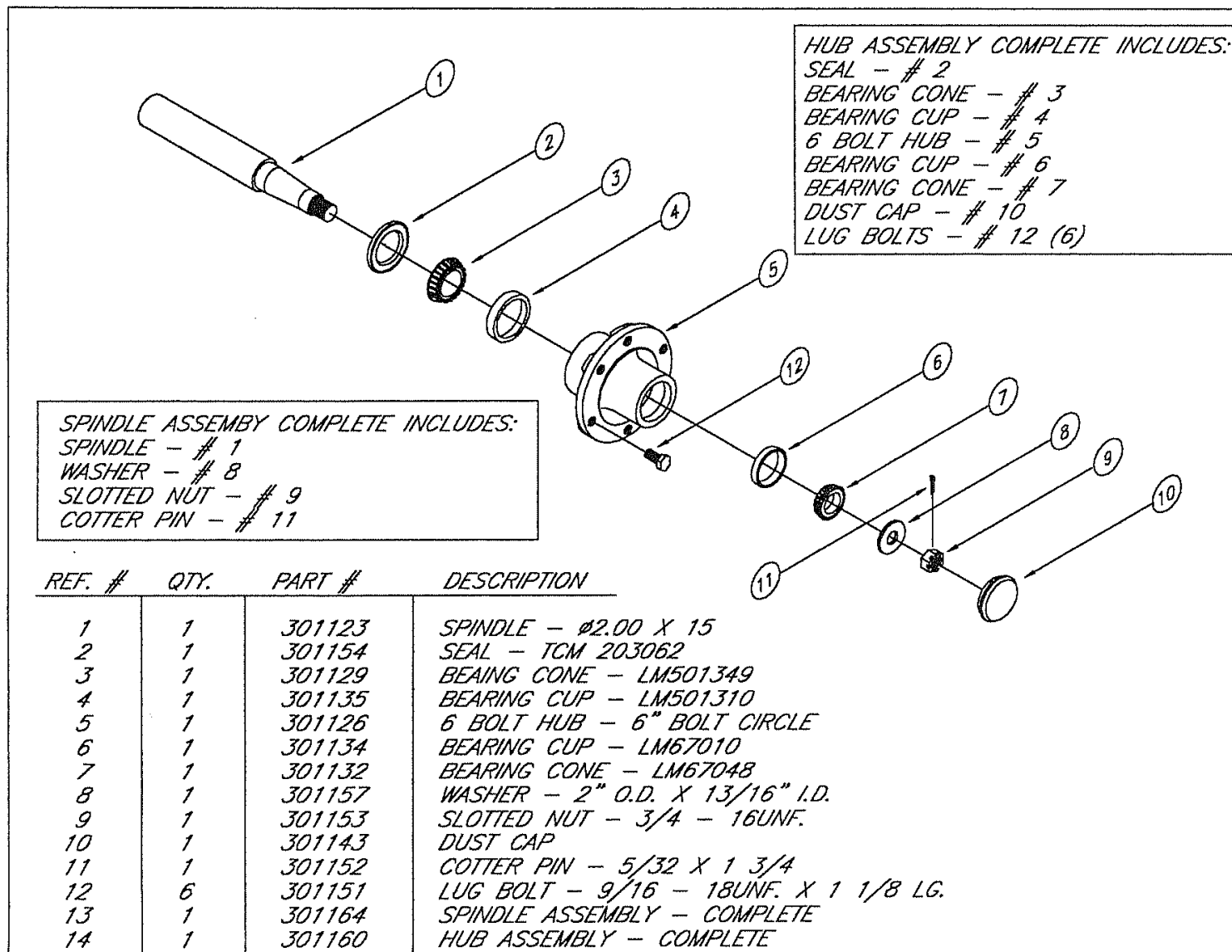
HEAVY DUTY 4 BOLT HUB & SPINDLE

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

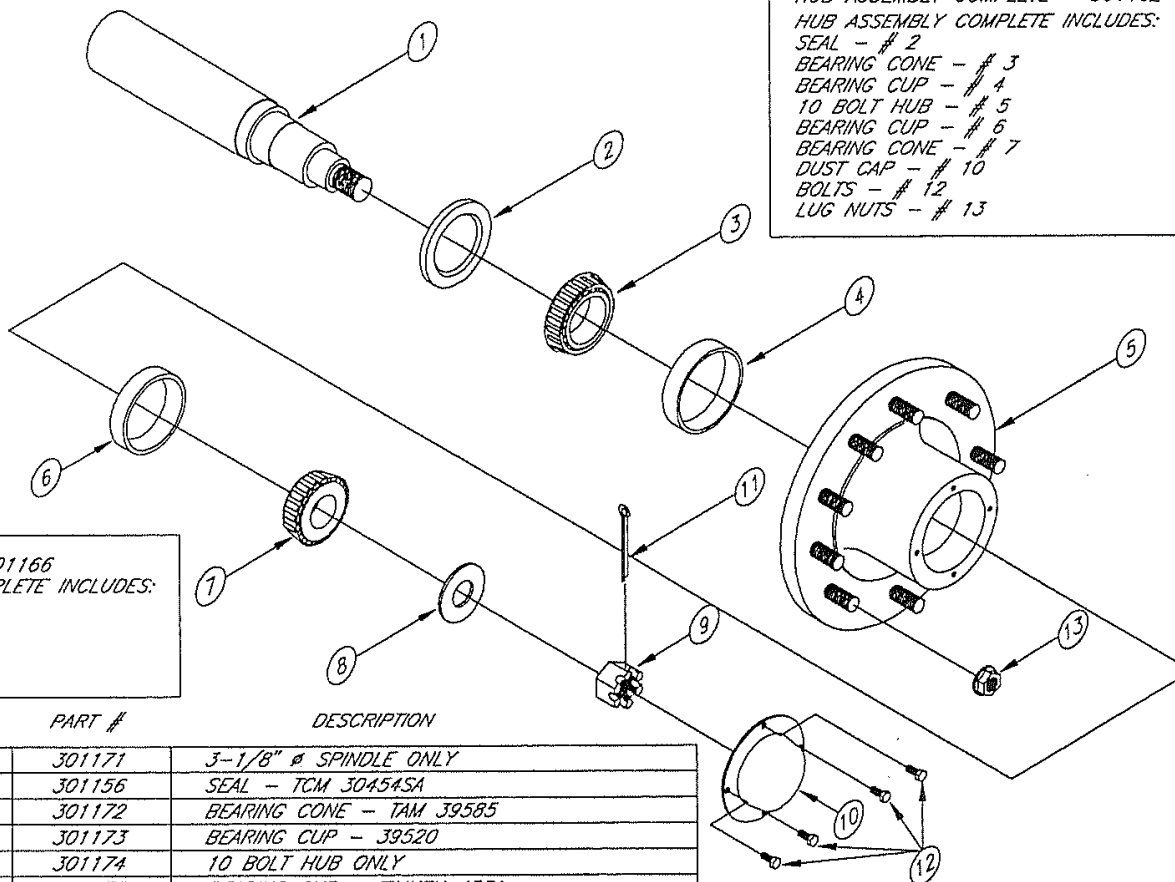


10 BOLT HUB & SPINDLE

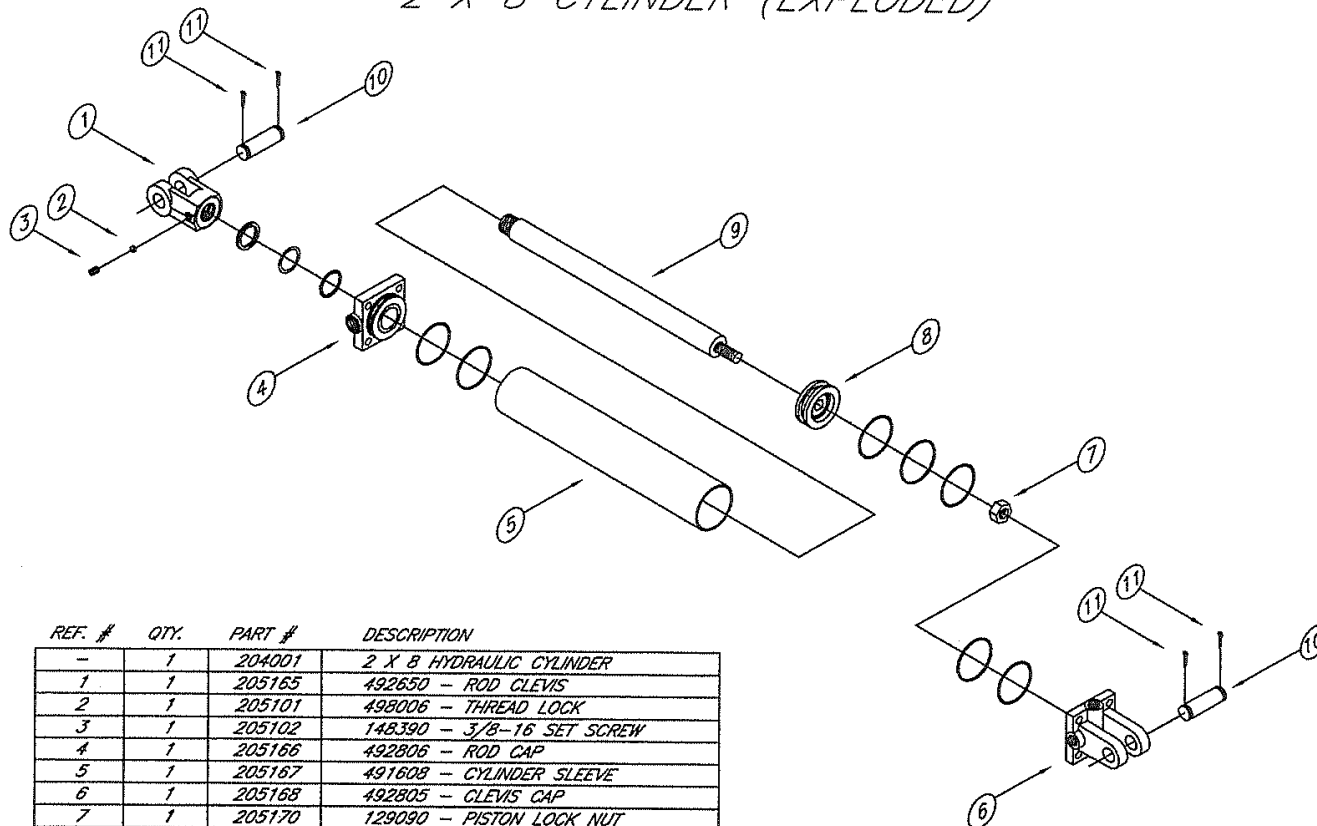
SPINDLE COMPLETE - 301166
SPINDLE ASSEMBLY COMPLETE INCLUDES:
SPINDLE - # 1
WASHER - # 8
SLOTTED NUT - # 9
COTTER PIN - # 11

HUB ASSEMBLY COMPLETE - 301162
HUB ASSEMBLY COMPLETE INCLUDES:
SEAL - # 2
BEARING CONE - # 3
BEARING CUP - # 4
10 BOLT HUB - # 5
BEARING CUP - # 6
BEARING CONE - # 7
DUST CAP - # 10
BOLTS - # 12
LUG NUTS - # 13

REF. #	QTY.	PART #	DESCRIPTION
1	1	301171	3-1/8" Ø SPINDLE ONLY
2	1	301156	SEAL - TCM 30454SA
3	1	301172	BEARING CONE - TAM 39585
4	1	301173	BEARING CUP - 39520
5	1	301174	10 BOLT HUB ONLY
6	1	301175	BEARING CUP - TIMKEN 453A
7	1	301176	BEARING CONE - TIMKEN 460
8	1	301177	WASHER - 3"O.D. X 1-1/4" I.D. X .160" THICK
9	1	301178	SPINDLE NUT 1-1/4-12
10	1	301179	DUST CAP
11	1	101265	COTTER PIN - 1/4" X 2"
12	4	101113	5/16-18 X 3/4" HEX BOLT
13	10	301180	LUG NUT - 3/4-16

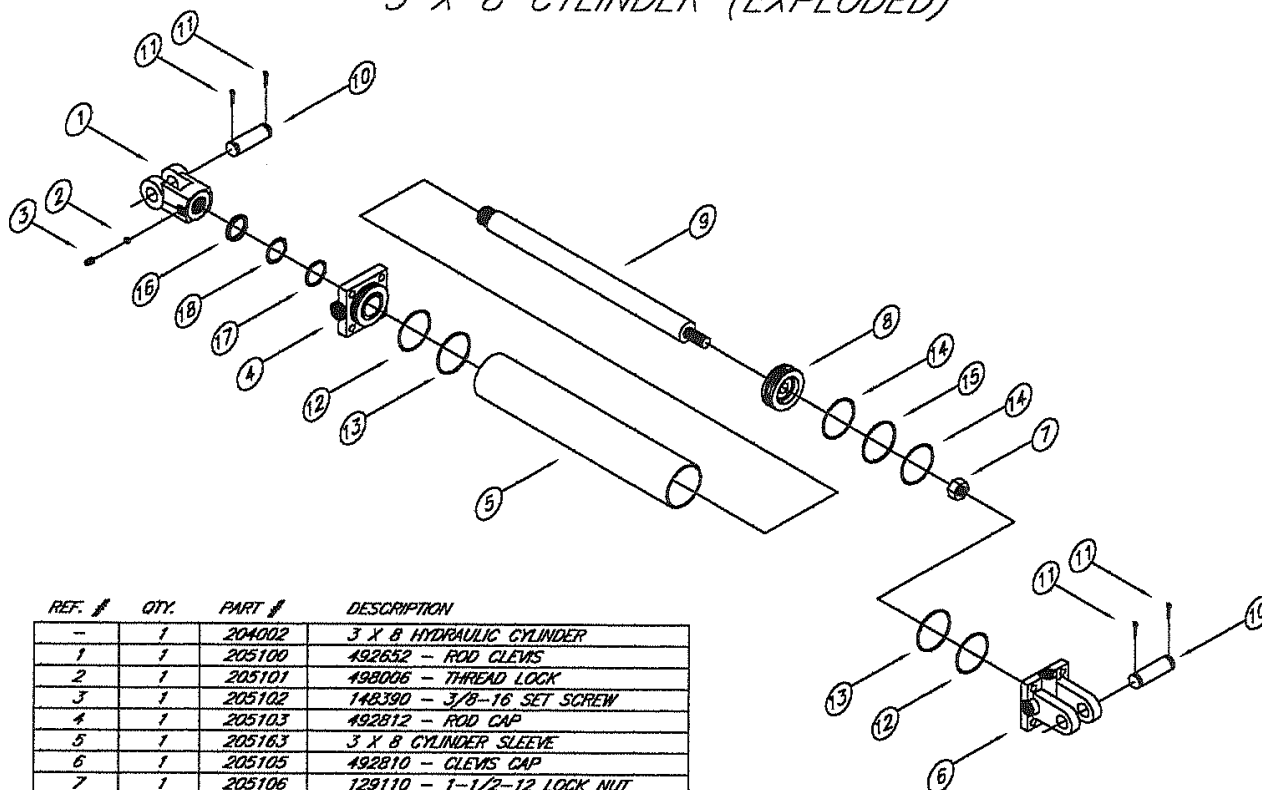


LION 2500 TL SERIES
2 X 8 CYLINDER (EXPLODED)



REF. #	QTY.	PART #	DESCRIPTION
-	1	204001	2 X 8 HYDRAULIC CYLINDER
1	1	205165	492650 - ROD CLEVIS
2	1	205101	498006 - THREAD LOCK
3	1	205102	148390 - 3/8-16 SET SCREW
4	1	205166	492806 - ROD CAP
5	1	205167	491608 - CYLINDER SLEEVE
6	1	205168	492805 - CLEVIS CAP
7	1	205170	129090 - PISTON LOCK NUT
8	1	205169	492548 - PISTON
9	1	205171	492699 - CYLINDER ROD
10	2	602136	#1" X 3-5/8" PLATED CYLINDER PIN
11	4	101249	5/32 X 2" - COTTER PIN-PLT.
-	1	205172	639572 - SEAL KIT COMPLETE

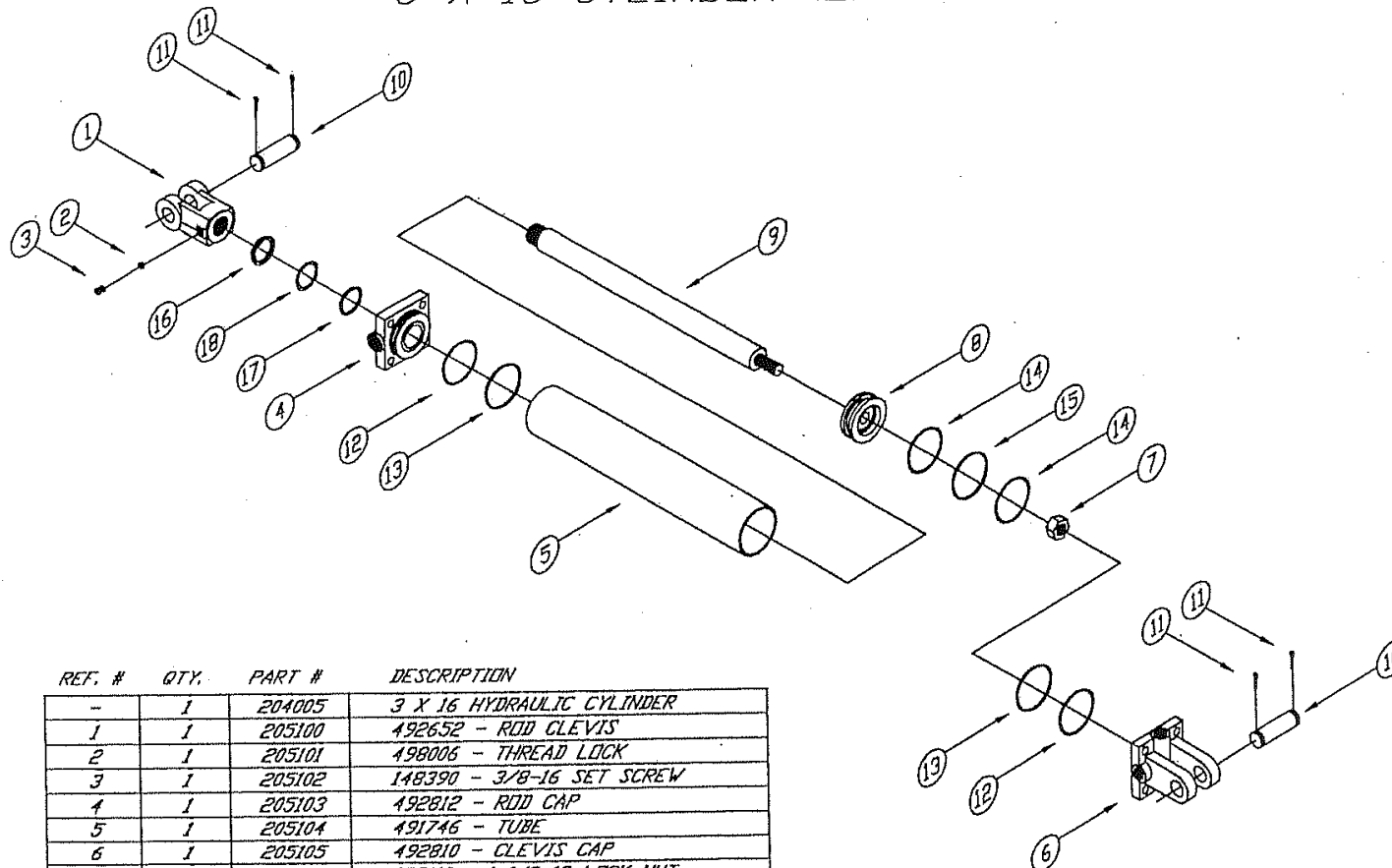
LION 2500 TL SERIES 3 X 8 CYLINDER (EXPLODED)



REF. #	QTY.	PART #	DESCRIPTION
-	1	204002	3 X 8 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	205163	3 X 8 CYLINDER SLEEVE
6	1	205105	492810 - CLEVIS CAP
7	1	205106	129110 - 1-1/2-12 LOCK NUT
8	1	205107	492520 - PISTON
9	1	205162	3 X 8 CYLINDER 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

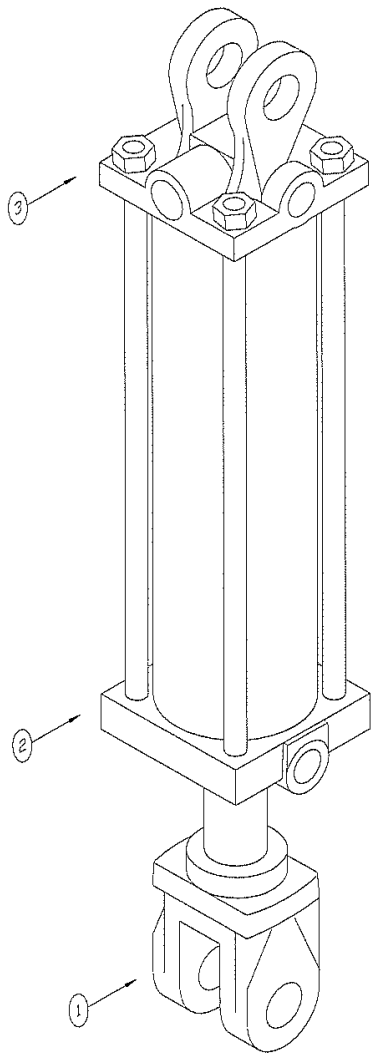
LION 2500 TL SERIES 3 X 16 CYLINDER (EXPLODED)



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.

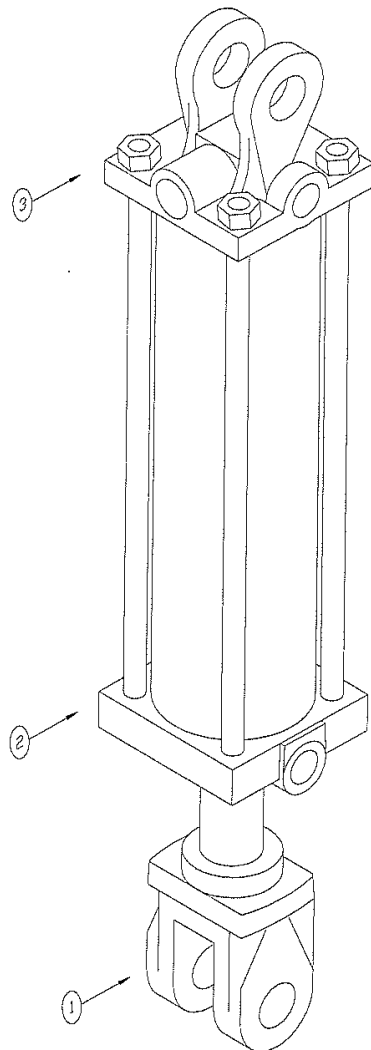
REF. #	QTY.	PART #	DESCRIPTION
15	1	205020	#12 O-RING
16	1	205021	#13 WIPER
17	1	205022	#11 ROD O-RING
18	1	205023	#24 ROD B.U.
-	1	205016	SEAL KIT COMPLETE

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.**