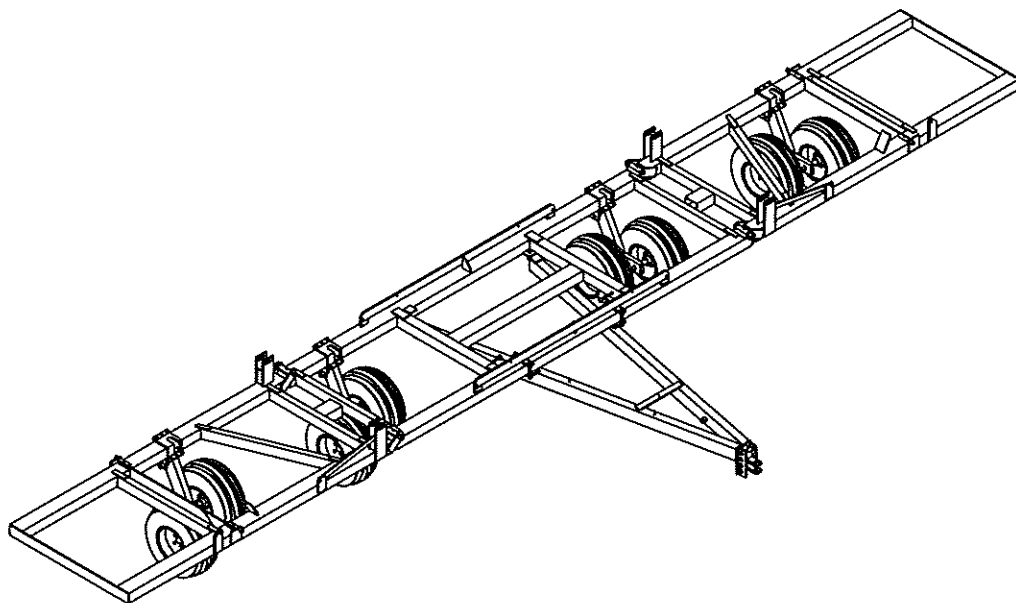




*PROGRESSIVE
FARM PRODUCTS, INC.*

OPERATOR'S MANUAL
1542 SERIES
42-1/2 FOOT TOOLBAR-FEI



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.

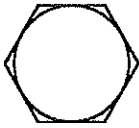
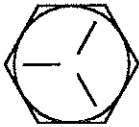
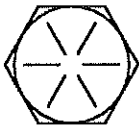
At least once a year, inspect all hydraulic hoses for leaks, cracks, abrasions, and pinched areas. Tighten fittings or replace hoses as needed.

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.

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

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

Assembly Instructions

1542-FEI Anhydrous Toolbar

Be sure to remove excess paint from pins and bushing bores. Apply a thin coat of grease to pins before installing them. Use "Anti-seize" or equivalent on all non-greasable joints and pins. Never strike a pin directly with a hammer – always use a block to absorb the shock if a pin does not easily fit. Striking a pin directly will cause the end of the pin to spread.

Be sure to lubricate all grease zerks. Refer to the lubrication drawing for all zerk locations and time intervals for greasing.

Mainframe, Wing, and Hitch Assembly

1. Lay the hitch on the ground, placing the mainframe on top of it.
2. Center the mainframe on the hitch and attach the two together using the hardware from bag #102001.
3. Lay the wings out beside the mainframe and attach the wings to the mainframe using the pins and hardware included in the wing hinge (make sure the paint is removed and pins are greased prior to installation).

Mainframe/Wing Wheel Assembly

1. Lift the toolbar into the air from the rear center of the mainframe.
2. Place the wheel arms in their approximate locations (refer to the correct shank spacing drawings for the exact wheel placement).
3. Attach the saddle clamps using hardware from bag #102080.
4. Attach the wheel arms to the clamp assembly using pins and hardware included on the lower clamp assembly.
5. Attach the 3-1/2" x 10" rephase cylinders to the wheel arms on the mainframe. Install tire/wheel assemblies and transport locks. **Note: Make sure lug bolts are tightened prior to transporting of unit.**
6. Lower the mainframe, letting the toolbar rest on the mainframe wheels. Raise one of the wings and repeat the steps 1-5 listed above only using 3-1/4" x 10" rephase cylinders on the wings.
7. Repeat process for opposite wing.
8. After both wing wheels are installed, lift mainframe back into the air, relieving pressure on the cylinders. Remove the safety locks and lower the bar.

Attaching the Wing Fold Cylinders

1. Locate the 3" x 24" hydraulic cylinders. Using hardware from the cylinders and hardware bag #213016, attach the cylinders to the mainframe, leaving the clevis end unattached.
2. Be sure to attach the butt end of the cylinder to the mainframe.

Hydraulic Hose Installation

1. Refer to the "Hydraulic Schematic Drawings". Lay out the hydraulic hoses from hose packages #212021 (Wingfold) and #212061 (Wheel Mount) in their approximate locations.
2. Using hardware from bag #213016 (Wingfold) and #213051 (Wheel Mount) to attach the hoses to the divider/combiner valve and respective cylinders.
3. Attach the hoses to the bolts welded on the right hitch tube using hose holdowns. **Do not tie hoses down at this point.**
4. Hook up the toolbar to a hydraulic unit and charge all cylinders with oil to purge the air from the cylinders. Attach the clevis ends of the cylinders to the toolbar.

Anhydrous Rear Hitch Assembly

1. Place the rear hitch behind the toolbar, centering it on the mainframe. Using the hardware from bag #102030 (Rigid Rear Hitch) or #102035 (Floating Rear Hitch) to attach to the toolbar.

NH3 Bracket and Gauge Assembly

1. Attach the bracket and swing arm using hardware provided to the bar.

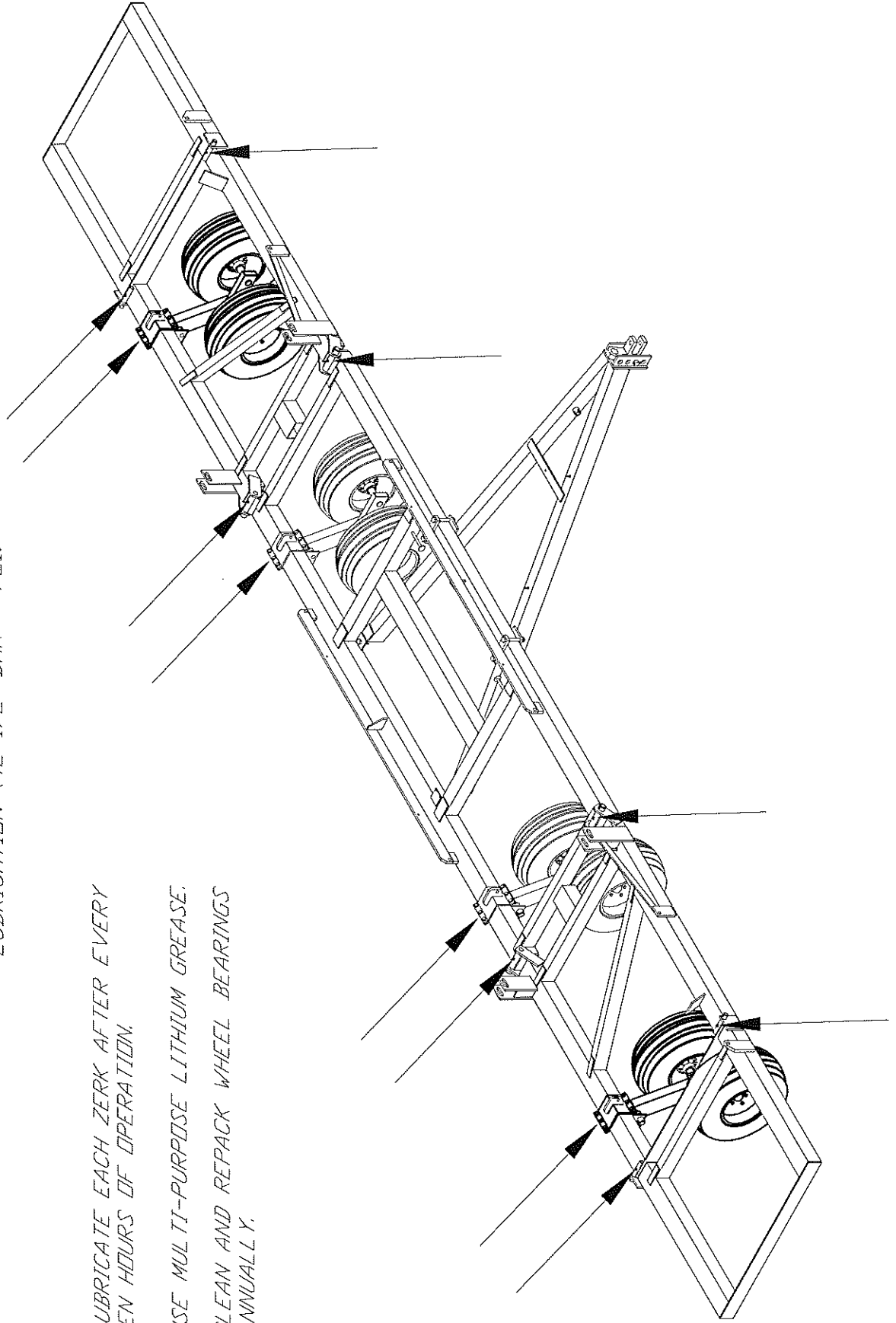
Safety Light Assembly

1. Using the hardware from bag #102032, attach the lights on the rear tube of the wings as shown making sure the red and yellow lights are visible from the rear of the bar.

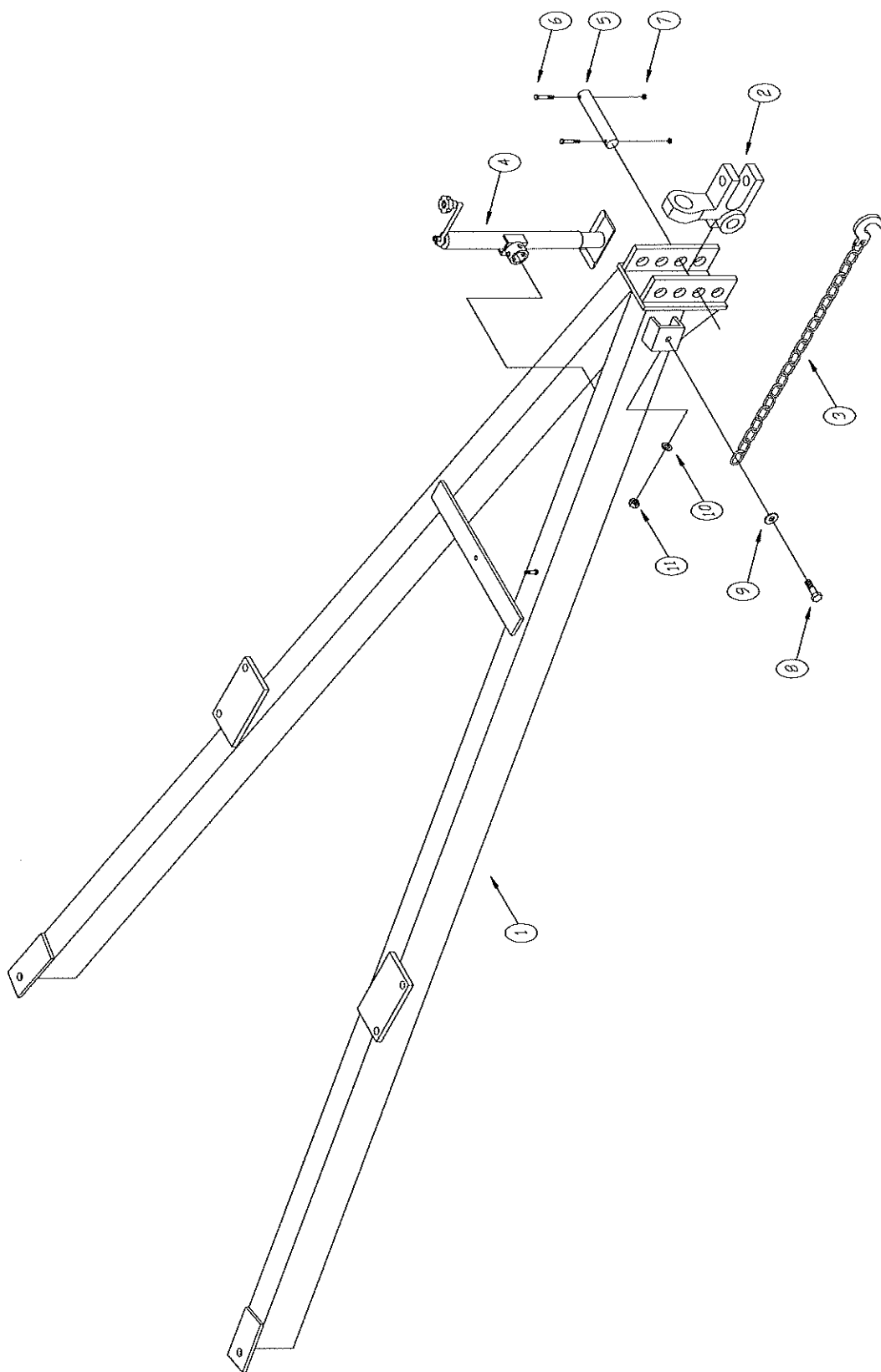
LUBRICATION (42-1/2' BAR - FEI)

LUBRICATE EACH ZERK AFTER EVERY
TEN HOURS OF OPERATION.

USE MULTI-PURPOSE LITHIUM GREASE.
CLEAN AND REPACK WHEEL BEARINGS
ANNUALLY.



HITCH ACCESSORIES (FEI)

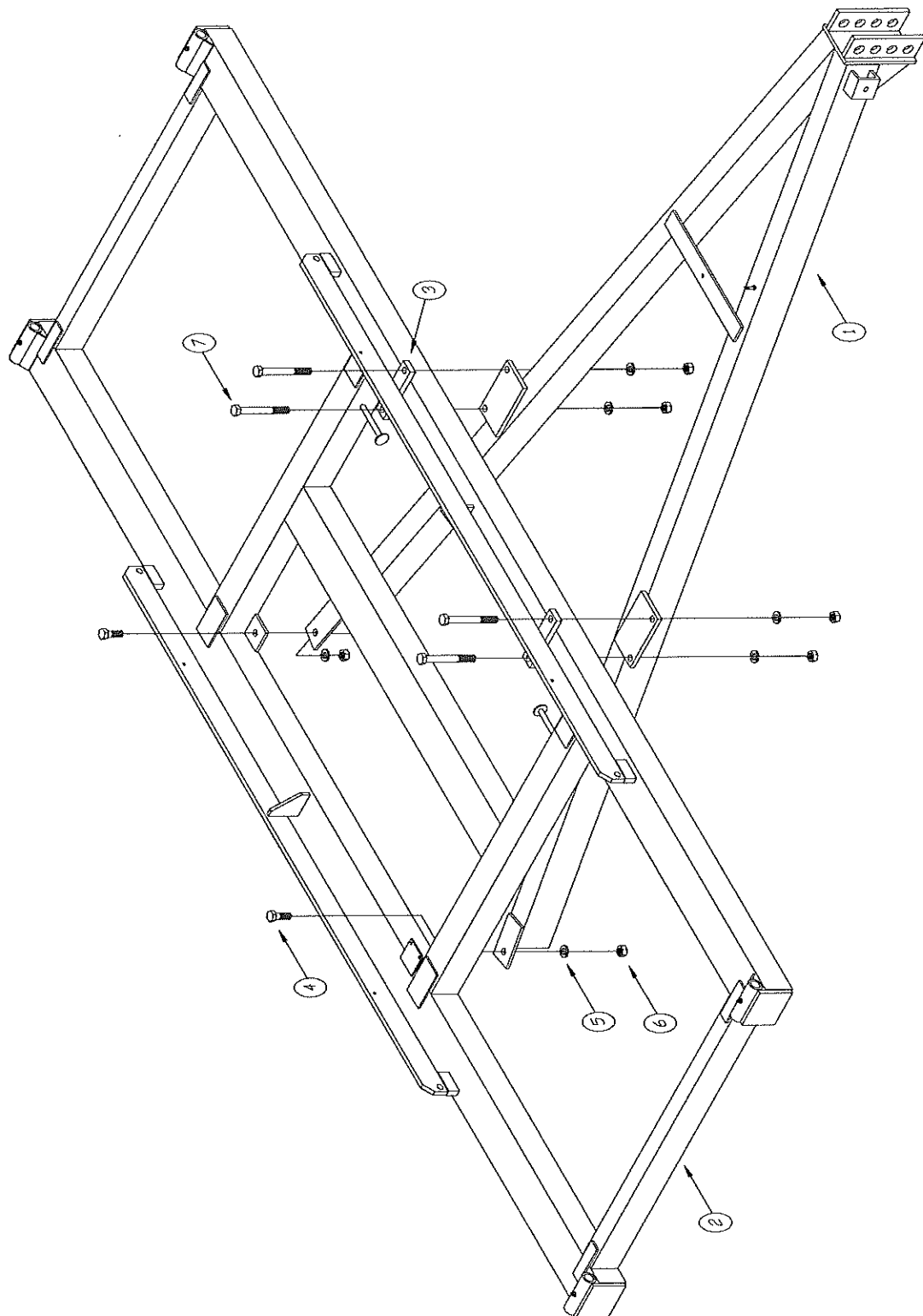


HITCH ACCESSORIES (FEI)

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	802048	HITCH WELDMENT (FEI)
2	1	450016	COMBINATION CLEVIS
3	1	101442	25,000 LB CAP. SAFETY CHAIN ASSEMBLY
4	1	400014	IMPLEMENT JACK
5	1	602178	Ø1.625 X 9" CLEVIS PIN
6	2	101128	3/8-16 X 2-1/2" HEX BOLT
7	2	101455	3/8-16 TOPLOCK NUT
8	1	101171	3/4-10 X 2" HEX BOLT
9	1	101233	3/4" FLAT WASHER
10	1	101224	3/4" LOCK WASHER
11	1	101215	3/4-10 HEX NUT

HITCH ASSEMBLY (FEI)



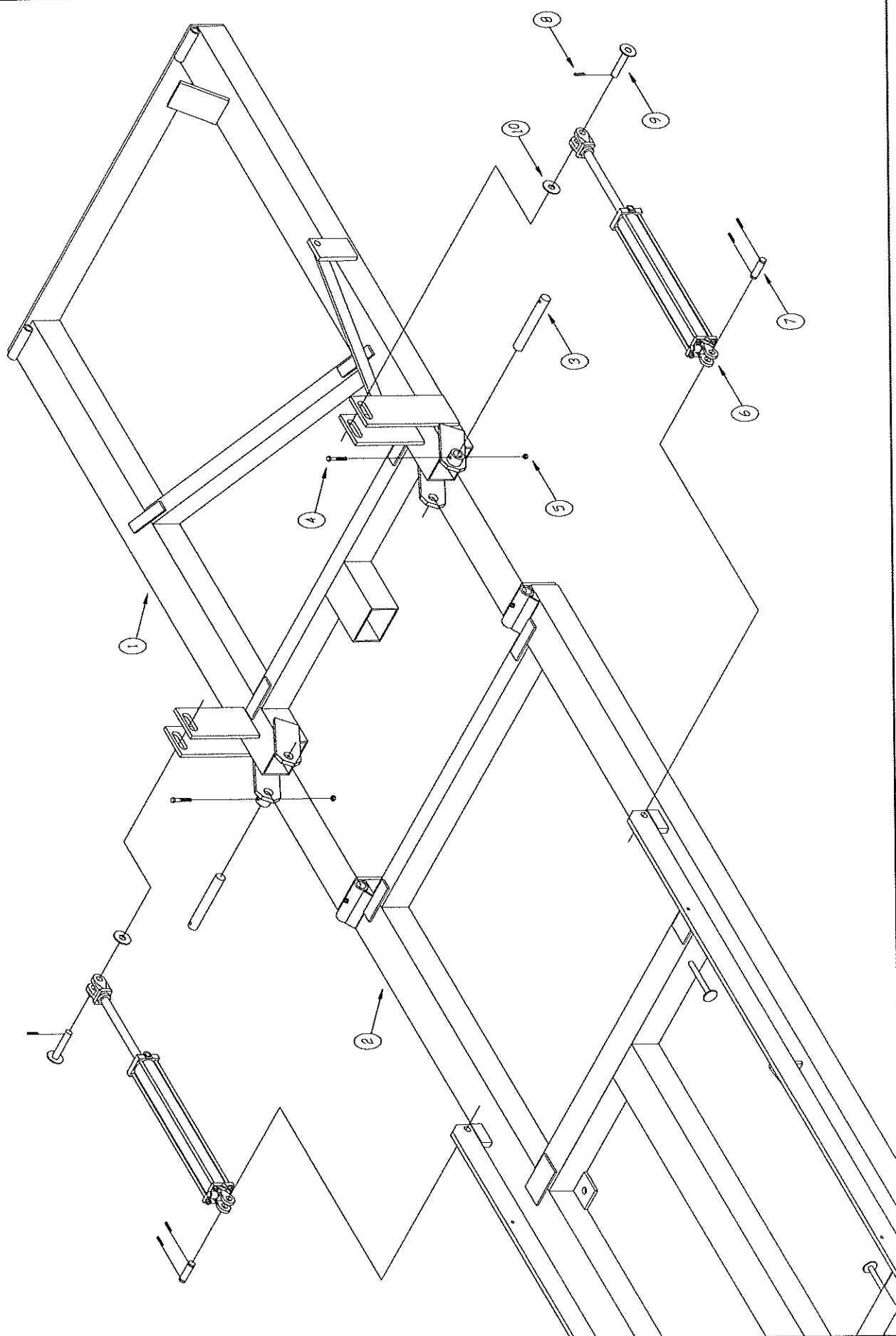
REFERENCE #	DATE	REV
J5504002	02/11/09	

HITCH ASSEMBLY (FEI)

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	802048	HITCH WELDMENT (FEI)
2	1	802049	MAINFRAME WELDMENT (FEI)
3	2	400125	1 X 2-1/2 X 10-1/4" CLAMP PLATE
4	4	101205	1-8 X 9" HEX BOLT
5	2	101256	1-8 X 3" HEX BOLT Gr. 8 YLW. ZINC
6	6	101226	1" LOCK WASHER
7	6	101217	1-8 HEX NUT

LEFT INNER WING ASSEMBLY (42-1/2' BAR FEI)



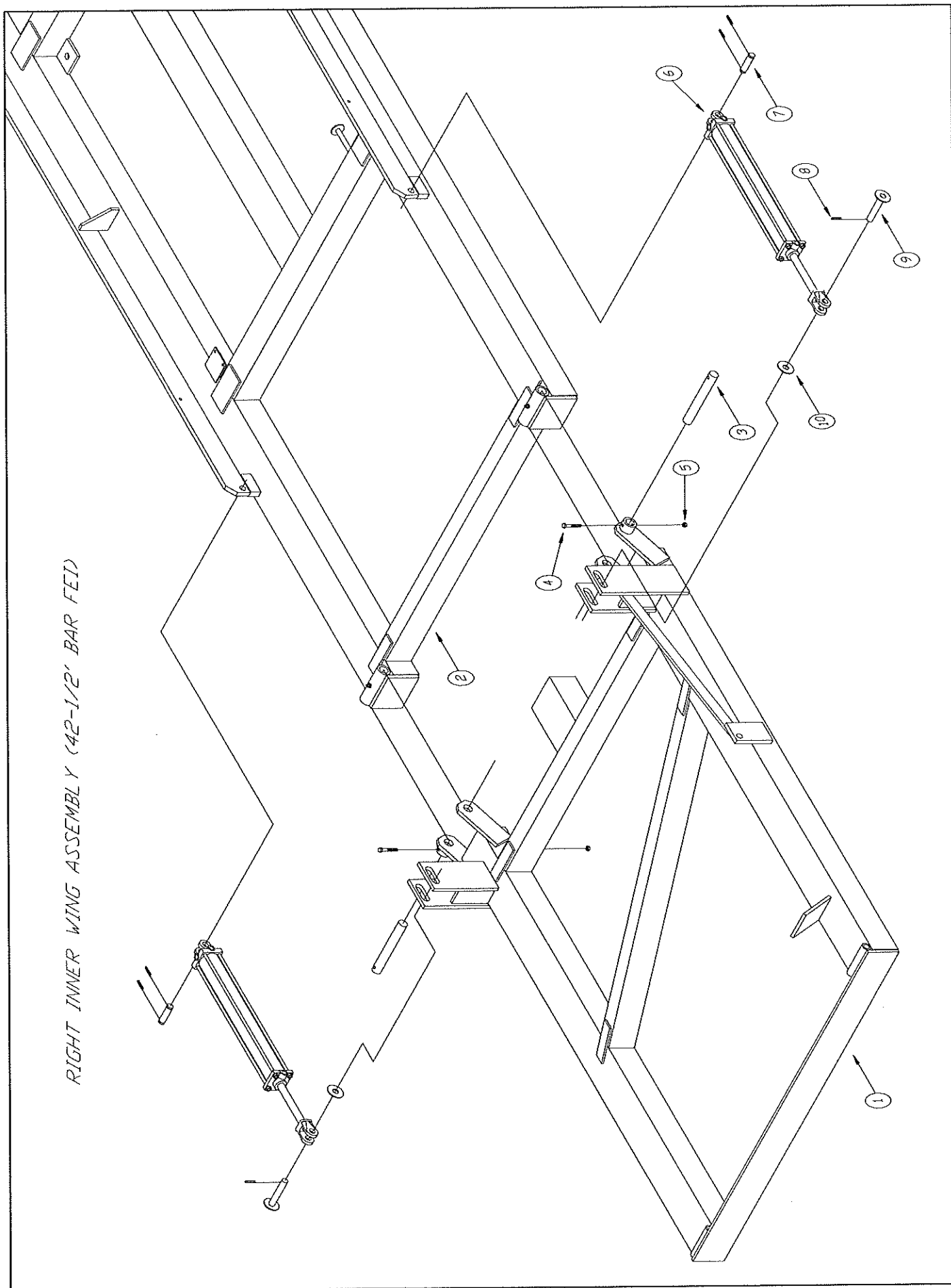
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1550A004	02/19/09	

LEFT INNER WING ASSEMBLY (42-1/2' BAR FEI)

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	802051	LEFT INNER WING - 90" 42-1/2' BAR (FEI)
2	1	802049	MAINFRAME (FEI)
3	2	602177	Ø1.500 X 10-1/2" HINGE PIN
4	2	101140	7/16-14 X 3" HEX BOLT
5	2	101456	7/16-14 TOPLOCK NUT
6	2	204008	3 X 24 HYDRAULIC CYLINDER
7	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
8	6	101246	3/16 X 1-1/2" COTTER PIN
9	2	602218	Ø1.00 X 5-1/4" WELDED PIN
10	2	101235	1" FLAT WASHER

RIGHT INNER WING ASSEMBLY (42-1/2' BAR FEI)



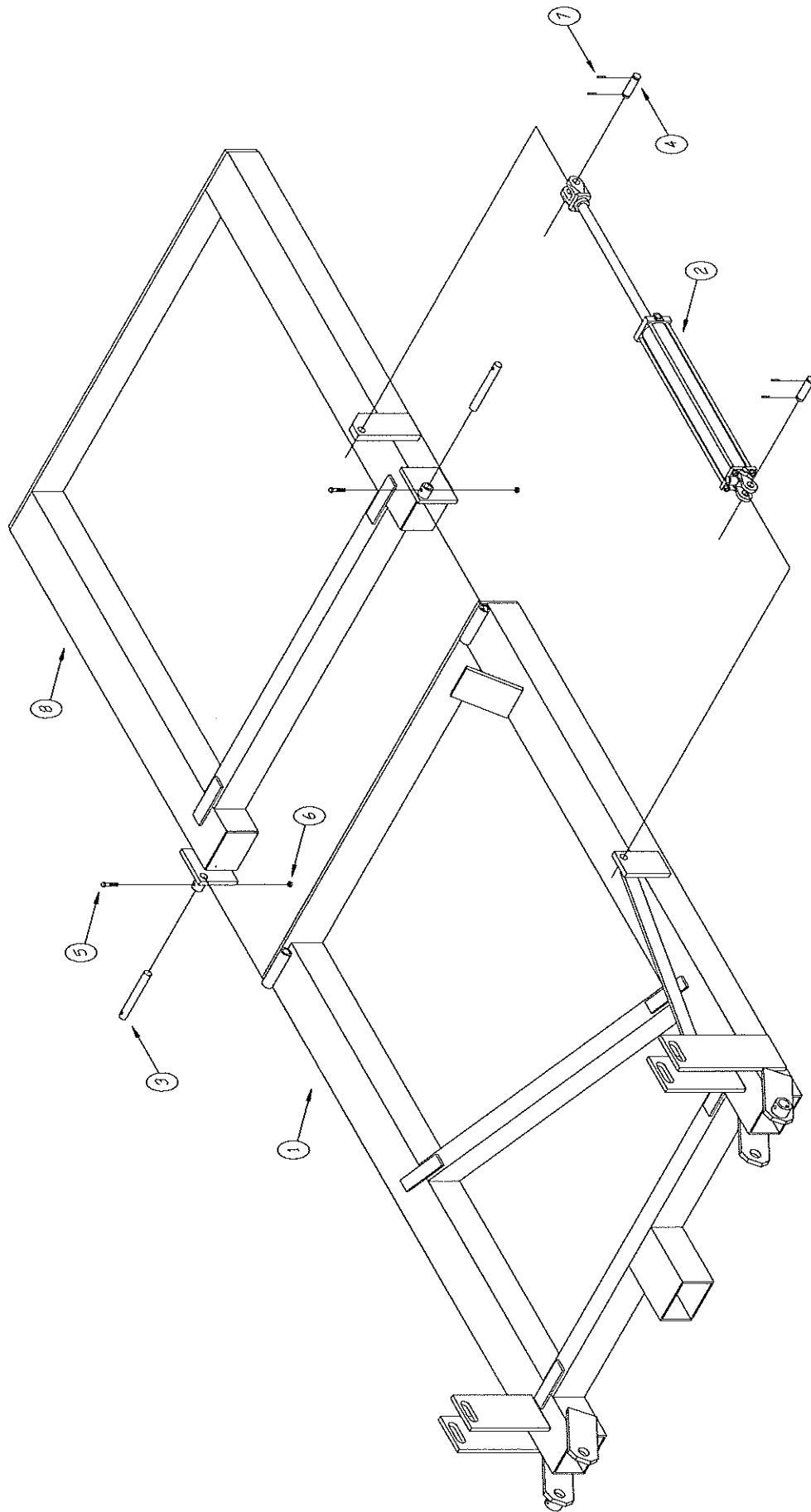
REFERENCE#	DATE	REV
1550A003	02/12/09	

RIGHT INNER WING ASSEMBLY (42-1/2' BAR FEI)

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	802050	RIGHT INNER WING - 90" 42-1/2' BAR (FEI)
2	1	802049	MAINFRAME (FEI)
3	2	602177	Ø1.500 X 10-1/2" HINGE PIN
4	2	101140	7/16-14 X 3" HEX BOLT
5	2	101456	7/16-14 TOPLOCK NUT
6	2	204008	3 X 24 HYDRAULIC CYLINDER
7	2	602136	Ø1.00 X 3-5/8" CYLINDER PIN
8	6	101246	3/16 X 1-1/2" COTTER PIN
9	2	602218	Ø1.00 X 5-1/4" WELDED PIN
10	2	101235	1" FLAT WASHER

LEFT OUTER WING ASSEMBLY (42-1/2' BAR FEI)



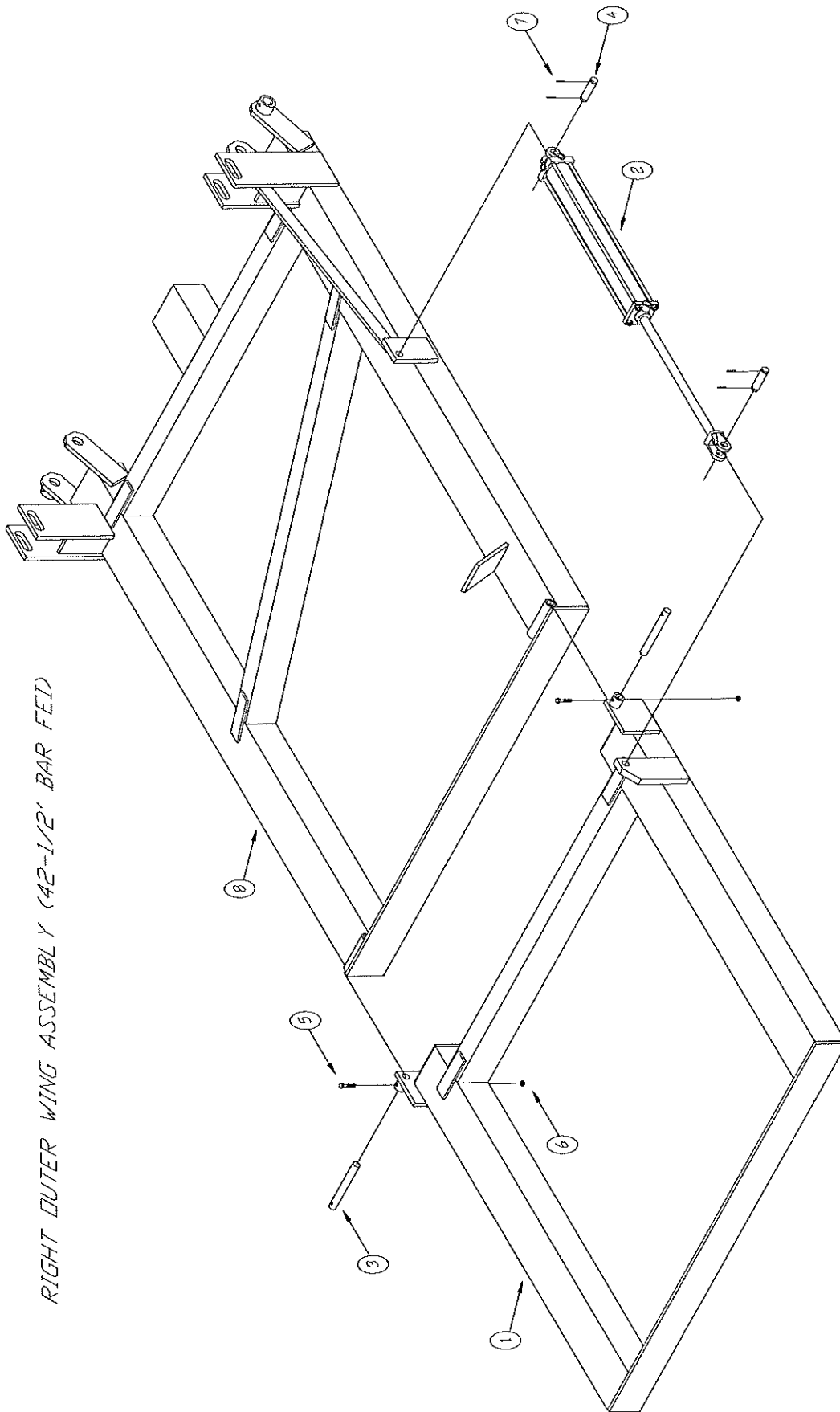
REFERENCE# 15504006	DATE 02/13/09	REV REV
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LEFT OUTER WING ASSEMBLY (42-1/2' BAR FEI)

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	802053	LEFT OUTER WING 62" 42-1/2' BAR (FEI)
2	1	204008	3 X 24" HYDRAULIC CYLINDER
3	2	602110A	Ø1 X 8" HINGE PIN
4	2	602136	Ø1 X 3-5/8" CYLINDER PIN
5	2	101127	3/8-16 X 2" HEX BOLT PLT.
6	2	101455	3/8-16 TOPLOCK NUT PLT.
7	4	101246	3/16 X 1-1/2" COTTER PIN
8	1	802051	LEFT INNER WING 90" 42-1/2' BAR (FEI)

RIGHT OUTER WING ASSEMBLY (42-1/2' BAR FEI)



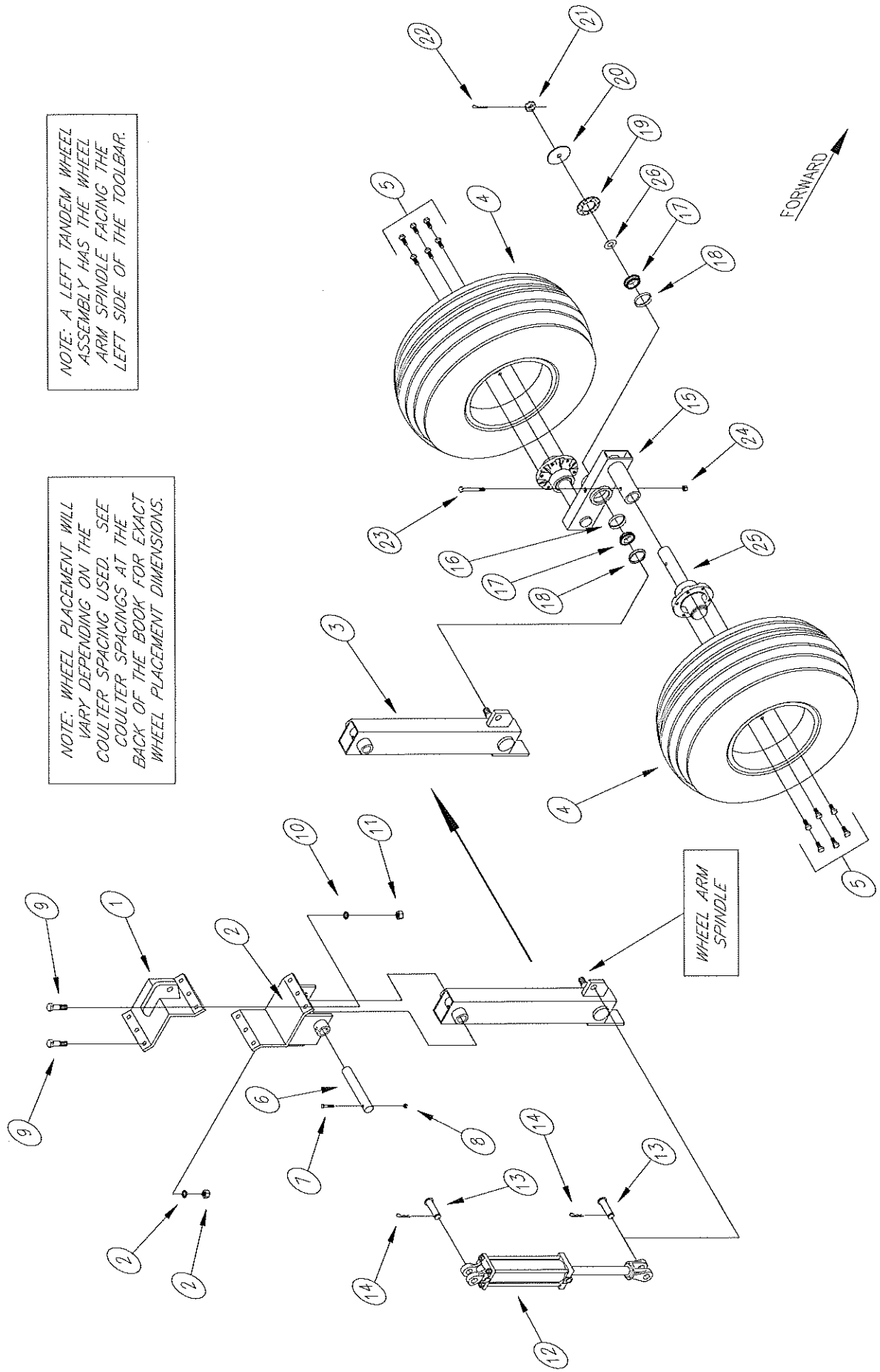
REFERENCE#	DATE	REV
15504005	02/13/09	

RIGHT OUTER WING ASSEMBLY (42-1/2" BAR FEI)

NOTES:

ITEM	QTY	PART#	DESCRIPTION
1	1	802052	RIGHT OUTER WING 62" 42-1/2' BAR (FEI)
2	1	204008	3 X 24" HYDRAULIC CYLINDER
3	2	602110A	Ø1 X 8" HINGE PIN
4	2	602136	Ø1 X 3-5/8" CYLINDER PIN
5	2	101127	3/8-16 X 2" HEX BOLT PLT.
6	2	101455	3/8-16 TOPLOCK NUT PLT.
7	4	101246	3/16 X 1-1/2" COTTER PIN
8	1	802050	RIGHT INNER WING 90" 42-1/2' BAR (FEI)

LEFT TANDEM MAINFRAME WHEEL ASSEMBLY (42-1/2' BAR -- FEI)



LEFT TANDEM WHEEL ASSEMBLY (EXPLODED)

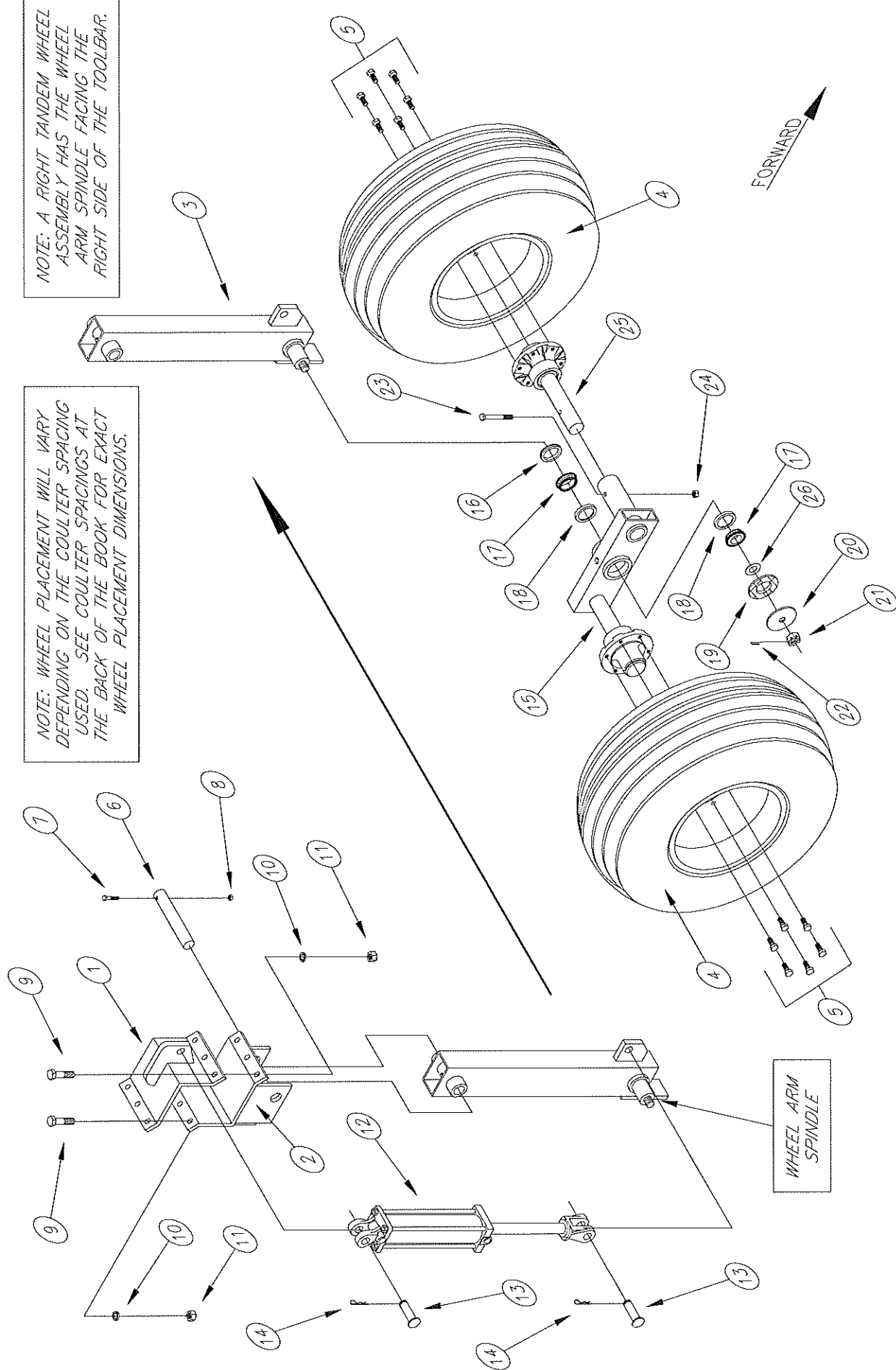
REF. #	QTY.	PART #	DESCRIPTION	REVISED: 7/09/01
1	1	801338	TOP SADDLE CLAMP (WHEEL) WELDMENT	
2	1	801753	LEFT LOWER SADDLE CLAMP WELDMENT	
3	1	801349	TANDEM WHEEL ARM WELDMENT	
4	2	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEM.	
5	12	301151	9/16-18 X 1-1/8" UNF LUG BOLT	
6	1	602129	Ø1.500 X 9-3/8" PIN	
7	1	101140	7/16-14 X 3" HEX BOLT	
8	1	101456	7/16-14 TOPLOCK NUT	
9	6	101173	3/4-10 X 3" HEX BOLT	
10	6	101224	3/4" LOCK WASHER	
11	6	101215	3/4-10 HEX NUT	
12*	1	204016	3-1/2 X 10 REPHASE CYLINDER	
13	2	602228	Ø1.00 X 3-1/4" PLATED CYLINDER PIN	
14	2	101249	5/32 X 1-3/4" COTTER PIN	
15	1	801757	LEFT WALKING AXLE WELDMENT	
16	1	301154	OIL SEAL - TCM 203062	
17	2	301129	BEARING CONE - LM501349	
18	2	301135	BEARING CUP - LM501310	
19	1	301216	4.000 O.D. X 1.031 I.D. FELT PAD	
20	1	301217	4.000 O.D. X 1.031 I.D. X 3/16" WASHER	
21	1	301218	1-8 CASTELLATED NUT	
22	1	101451	3/16 X 2-1/2" COTTER PIN	
23	1	101152	1/2-13 X 3-1/2" HEX BOLT	
24	1	101457	1/2-13 TOPLOCK NUT	
25	1	301120A	6 BOLT HUB AND SPINDLE (FRONT TANDEM)	
26	1	101226	1" FLAT WASHER - PLT.	

* BE SURE TO USE THE 3-1/2" CYLINDERS ON THE MAINFRAME WHEEL ASSEMBLIES
AND THE 3-1/4" CYLINDERS ON THE WING WHEEL ASSEMBLIES.

RIGHT TANDEM MAINFRAME WHEEL ASSEMBLY (42-1/2' BAR - FEI)

NOTE: WHEEL PLACEMENT WILL VARY DEPENDING ON THE COULTER SPACING USED. SEE COULTER SPACINGS AT THE BACK OF THE BOOK FOR EXACT WHEEL PLACEMENT DIMENSIONS.

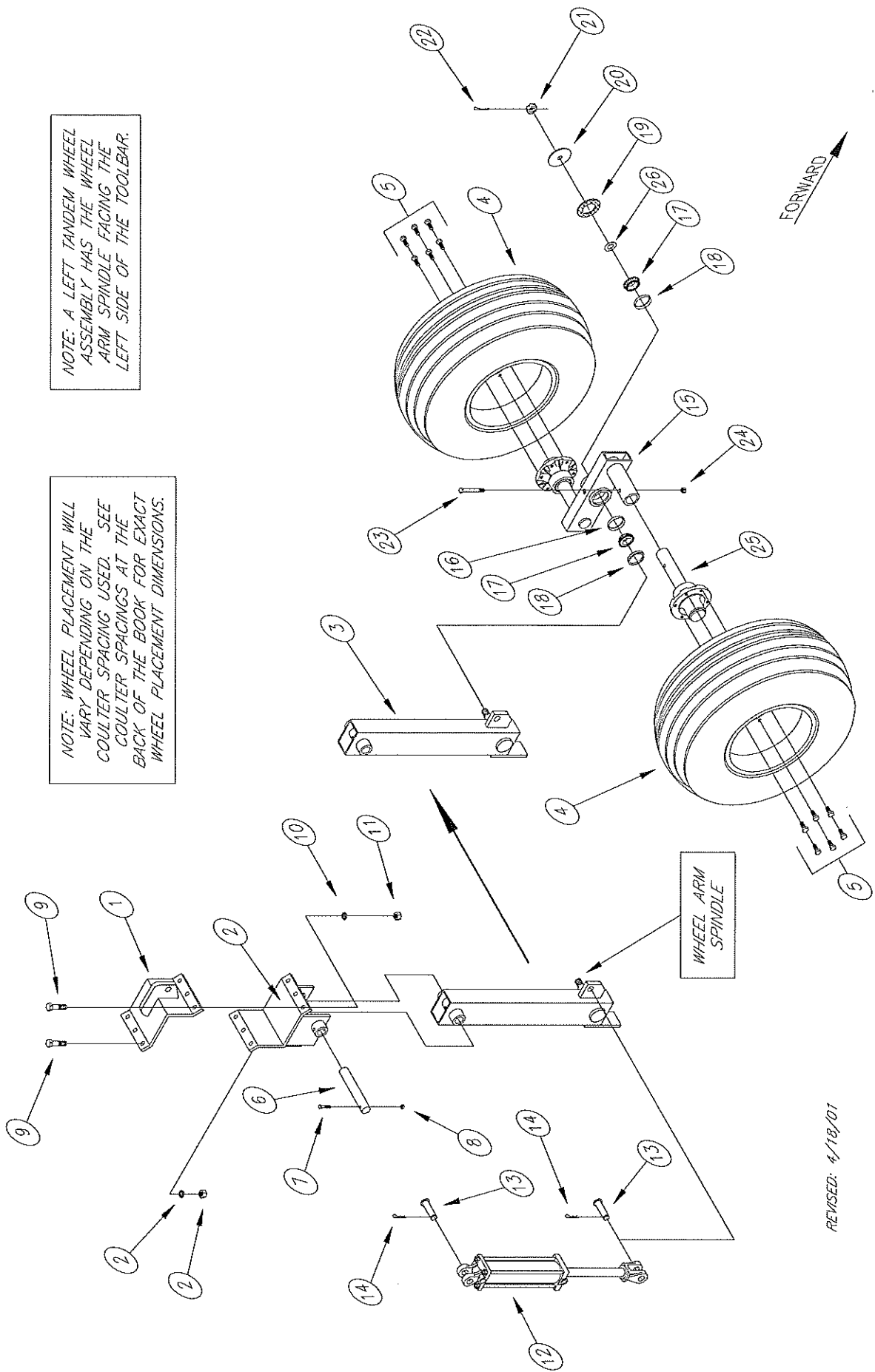
NOTE: A RIGHT TANDEM WHEEL ASSEMBLY HAS THE WHEEL ARM SPINDLE FACING THE RIGHT SIDE OF THE TOOLBAR.



RIGHT TANDEM MAINFRAME WHEEL ASSEMBLY (42-1/2' BAR - FEI)

REF. #	QTY.	PART #	DESCRIPTION	REVISED: 7/09/01
1	1	801338	TOP SADDLE CLAMP (WHEEL) WELDMENT	
2	1	801754	RIGHT LOWER SADDLE CLAMP WELDMENT	
3	1	801350	TANDEM WHEEL ARM WELDMENT	
4	2	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEM.	
5	12	301151	9/16-18 X 1-1/8" UNF LUG BOLT	
6	1	602129	Ø1.500 X 9-3/8" PIN	
7	1	101140	7/16-14 X 3" HEX BOLT	
8	1	101456	7/16-14 TOPLOCK NUT	
9	6	101173	3/4-10 X 3" HEX BOLT	
10	6	101224	3/4" LOCK WASHER	
11	6	101215	3/4-10 HEX NUT	
12	1	204016	3-1/2 X 10 REPHASE CYLINDER	
13	2	602228	Ø1.00 X 3-1/4" PLATED CYLINDER PIN	
14	2	101249	5/32 X 1-3/4" COTTER PIN	
15	1	801758	RIGHT WALKING AXLE WELDMENT	
16	1	301154	OIL SEAL - TCM 203062	
17	2	301129	BEARING CONE - LM501349	
18	2	301135	BEARING CUP - LM501310	
19	1	301216	4.000 O.D. X 1.031 I.D. FELT PAD	
20	1	301217	4.000 O.D. X 1.031 I.D. X 3/16" WASHER	
21	1	301218	1-8 CASTELLATED NUT	
22	1	101451	3/16 X 2-1/2" COTTER PIN	
23	1	101152	1/2-13 X 3-1/2" HEX BOLT	
24	1	101457	1/2-13 TOPLOCK NUT	
25	1	301120A	6 BOLT HUB AND SPINDLE (FRONT TANDEM)	
26	1	101226	1" FLAT WASHER - PLT	

LEFT TANDEM WHEEL ASSEMBLY



REVISED: 4/18/01

LEFT TANDEM WHEEL ASSEMBLY (EXPLODED)

REVISED: 7/09/01

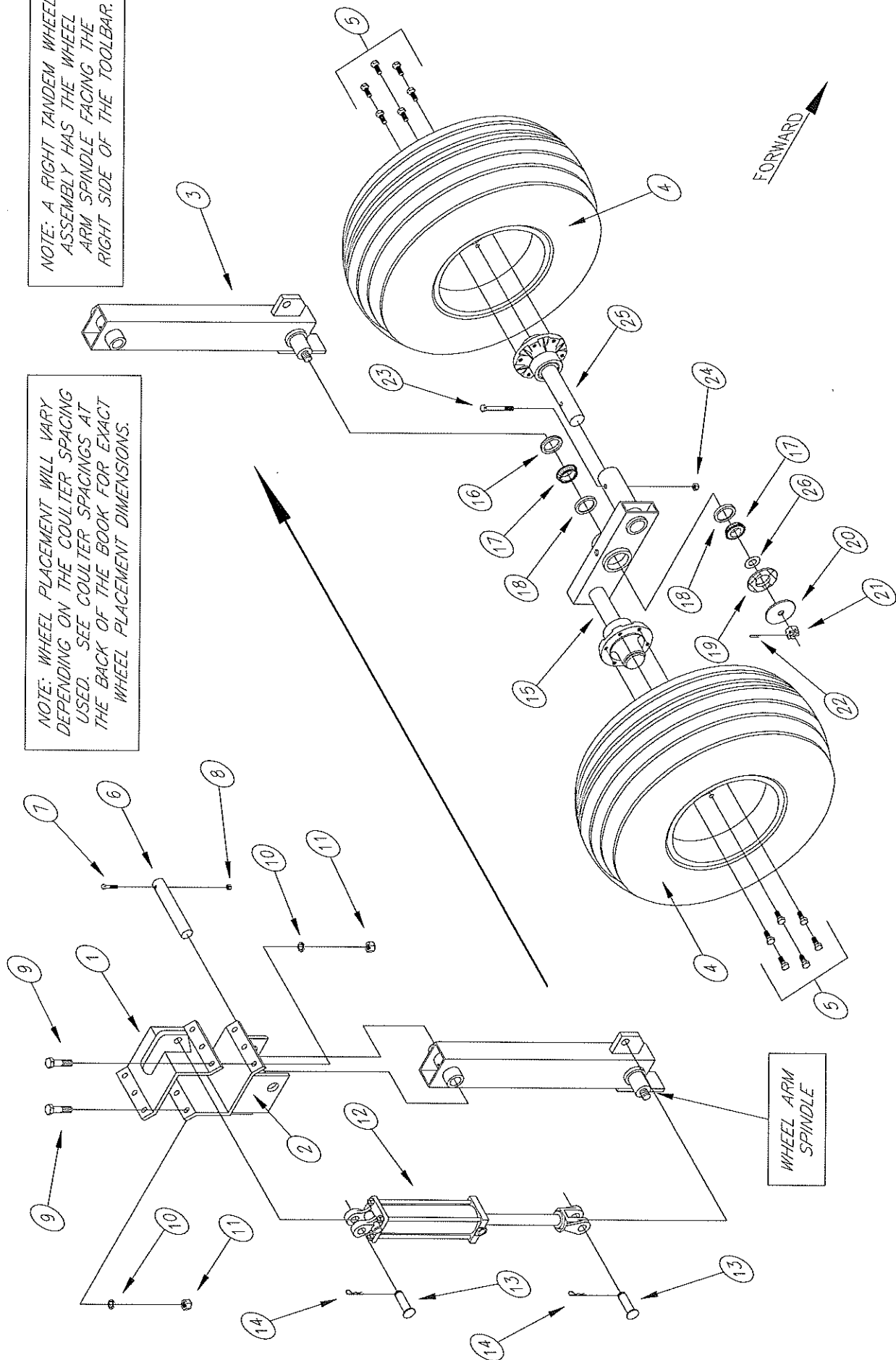
REF. #	QTY.	PART #	DESCRIPTION
1	1	801338	TOP SADDLE CLAMP (WHEEL) WELDMENT
2	1	801753	LEFT LOWER SADDLE CLAMP WELDMENT
3	1	801349	TANDEM WHEEL ARM WELDMENT
4	2	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEM.
5	12	301151	9/16-18 X 1-1/8" UNF LUG BOLT
6	1	602129	Ø1.500 X 9-3/8" PIN
7	1	101140	7/16-14 X 3" HEX BOLT
8	1	101456	7/16-14 TOPLOCK NUT
9	6	101173	3/4-10 X 3" HEX BOLT
10	6	101224	3/4" LOCK WASHER
11	6	101215	3/4-10 HEX NUT
12*	1	204016	3-1/2 X 10 REPHASE CYLINDER
13	2	602228	Ø1.00 X 3-1/4" PLATED CYLINDER PIN
14	2	101249	5/32 X 1-3/4" COTTER PIN
15	1	801757	LEFT WALKING AXLE WELDMENT
16	1	301154	OIL SEAL - TCM 203062
17	2	301129	BEARING CONE - LM501349
18	2	301135	BEARING CUP - LM501310
19	1	301216	4.000 O.D. X 1.031 I.D. FELT PAD
20	1	301217	4.000 O.D. X 1.031 I.D. X 3/16" WASHER
21	1	301218	1-8 CASTELLATED NUT
22	1	101451	3/16 X 2-1/2" COTTER PIN
23	1	101152	1/2-13 X 3-1/2" HEX BOLT
24	1	101457	1/2-13 TOPLOCK NUT
25	1	301120A	6 BOLT HUB AND SPINDLE (FRONT TANDEM)
26	1	101226	1" FLAT WASHER - PLT.

* BE SURE TO USE THE 3-1/2" CYLINDERS ON THE MAINFRAME WHEEL ASSEMBLIES
AND THE 3-1/4" CYLINDERS ON THE WING WHEEL ASSEMBLIES.

RIGHT TANDEM WHEEL ASSEMBLY

NOTE: A RIGHT TANDEM WHEEL ASSEMBLY HAS THE WHEEL ARM SPINDLE FACING THE RIGHT SIDE OF THE TOOLBAR.

NOTE: WHEEL PLACEMENT WILL VARY DEPENDING ON THE COULTER SPACING USED. SEE COULTER SPACINGS AT THE BACK OF THE BOOK FOR EXACT WHEEL PLACEMENT DIMENSIONS.



WHEEL ARM SPINDLE

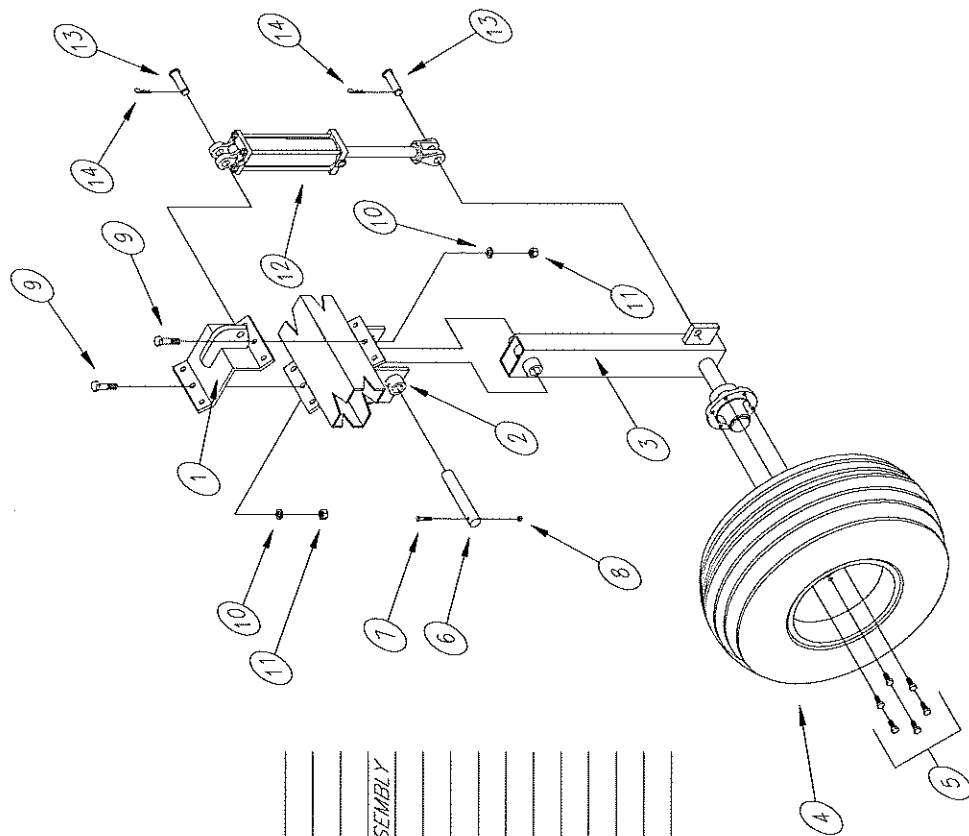
RIGHT TANDEM WHEEL ASSEMBLY (EXPLODED)

REF. #	QTY.	PART #	DESCRIPTION	REVISED: 7/09/01
1	1	801338	TOP SADDLE CLAMP (WHEEL) WELDMENT	
2	1	801754	RIGHT LOWER SADDLE CLAMP WELDMENT	
3	1	801350	TANDEM WHEEL ARM WELDMENT	
4	2	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEM.	
5	12	301151	9/16-18 X 1-1/8" UNF LUG BOLT	
6	1	602129	Ø1.500 X 9-3/8" PIN	
7	1	101140	7/16-14 X 3" HEX BOLT	
8	1	101456	7/16-14 TOPLOCK NUT	
9	6	101173	3/4-10 X 3" HEX BOLT	
10	6	101224	3/4" LOCK WASHER	
11	6	101215	3/4-10 HEX NUT	
12*	1	204016	3-1/2 X 10 REPHASE CYLINDER	
13	2	602228	Ø1.00 X 3-1/4" PLATED CYLINDER PIN	
14	2	101249	5/32 X 1-3/4" COTTER PIN	
15	1	801758	RIGHT WALKING AXLE WELDMENT	
16	1	301154	OIL SEAL - TCM 203062	
17	2	301129	BEARING CONE - LM501349	
18	2	301135	BEARING CUP - LM501310	
19	1	301216	4.000 O.D. X 1.031 I.D. FELT PAD	
20	1	301217	4.000 O.D. X 1.031 I.D. X 3/16" WASHER	
21	1	301218	1-8 CASTELLATED NUT	
22	1	101451	3/16 X 2-1/2" COTTER PIN	
23	1	101152	1/2-13 X 3-1/2" HEX BOLT	
24	1	101457	1/2-13 TOPLOCK NUT	
25	1	301120A	6 BOLT HUB AND SPINDLE (FRONT TANDEM)	
26	1	101226	1" FLAT WASHER - PLT	

* BE SURE TO USE THE 3-1/2" CYLINDERS ON THE MAINFRAME WHEEL ASSEMBLIES
AND THE 3-1/4" CYLINDERS ON THE WING WHEEL ASSEMBLIES.

RIGHT INNER & OUTER WING WHEEL ASSEMBLY (42-1/2' BAR - FEI)

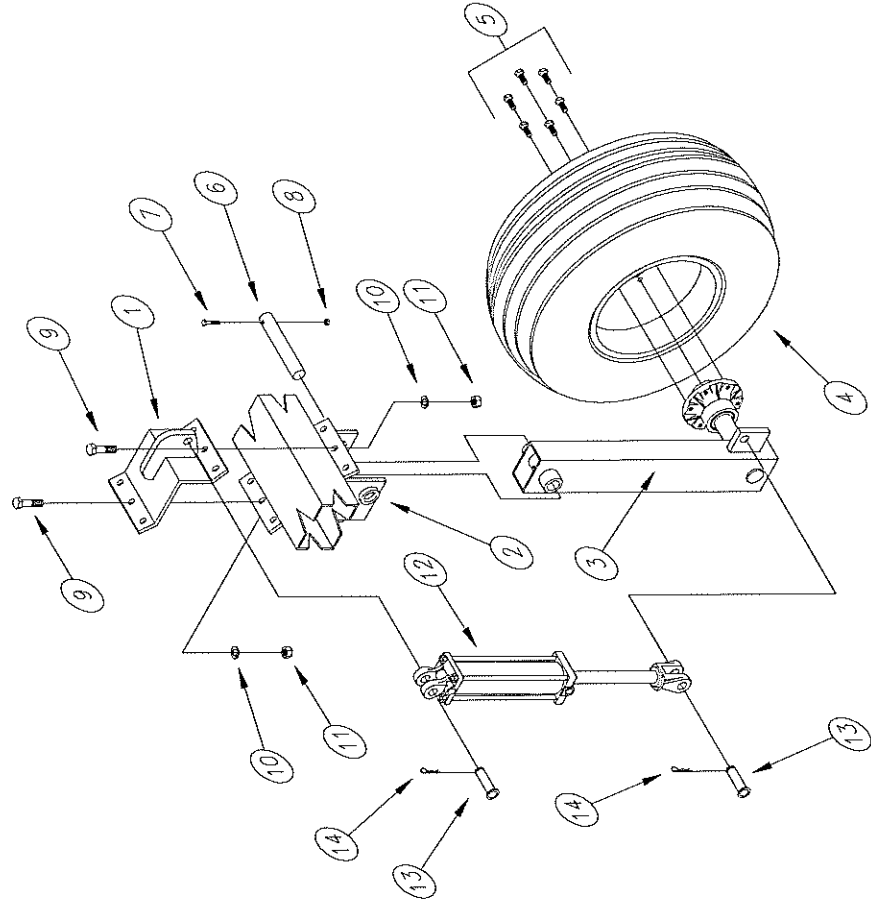
NOTE THAT WHEEL
PLACEMENT WILL VARY
DEPENDING ON THE
COULTER SPACING USED.
SEE COULTER SPACINGS
AT THE BACK OF THE
BOOK FOR EXACT WHEEL
PLACEMENT DIMENSIONS.



REF. #	QTY.	PART #	DESCRIPTION
1	1	801338	TOP SADDLE CLAMP
2	1	801754	RIGHT LOWER SADDLE CLAMP
3	1	801342	RIGHT WHEEL ARM
4	1	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEMBLY
5	6	301151	9/16-18 X 1-1/8" UNF LUG BOLT
6	1	602129	Ø1.500 X 9" HINGE PIN
7	1	101140	7/16-14 X 3" HEX BOLT
8	1	101456	7/16-14 TOPLOCK NUT
9	6	101173	3/4-10 X 3" HEX BOLT
10	6	101224	3/4" LOCK WASHER
11	6	101215	3/4-10 HEX NUT
12	1	204015	3-1/4 X 10 REPHASE CYLINDER
13	2	602228	Ø1.00 X 3-1/4" CYLINDER PIN
14	2	101249	5/32 X 1-3/4" COITER PIN

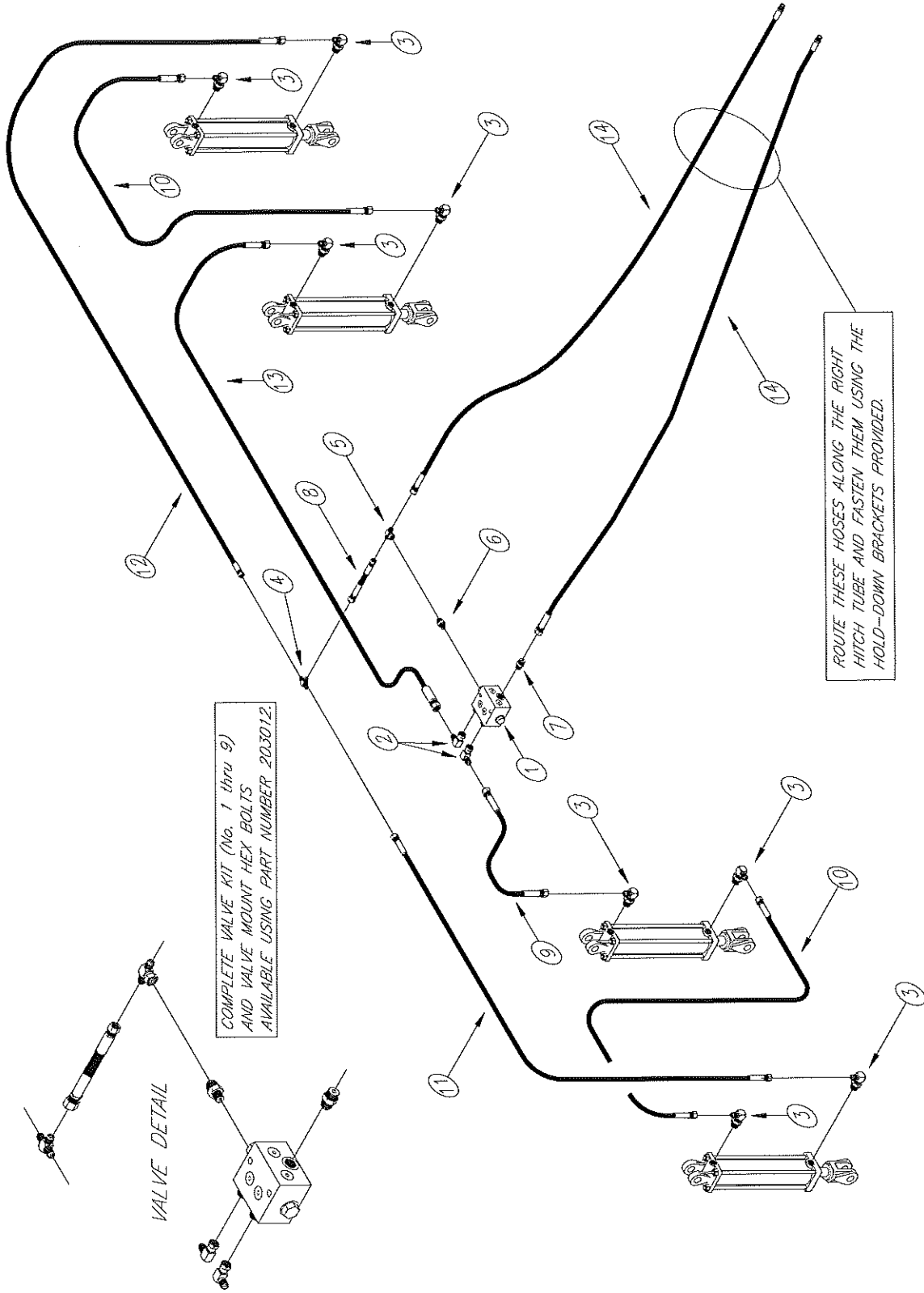
LEFT INNER & OUTER WING WHEEL ASSEMBLY (42-1/2' BAR -- FEI)

NOTE THAT WHEEL
PLACEMENT WILL VARY
DEPENDING ON THE
COTTLER SPACING USED.
SEE COTTLER SPACINGS
AT THE BACK OF THE
BOOK FOR EXACT WHEEL
PLACEMENT DIMENSIONS.



REF. #	QTY.	PART #	DESCRIPTION
1	1	801338	TOP SADDLE CLAMP
2	1	801753	LEFT LOWER SADDLE CLAMP
3	1	801341	LEFT WHEEL ARM
4	1	301194	12.5L X 15SL 8 PLY TIRE & WHEEL ASSEMBLY
5	6	301151	9/16-18 X 1-1/8" UNF LUG BOLT
6	1	602129	Ø1.500 X 9" HINGE PIN
7	1	101140	7/16-14 X 3" HEX BOLT
8	1	101456	7/16-14 TOPLOCK NUT
9	6	101173	3/4-10 X 3" HEX BOLT
10	6	101224	3/4" LOCK WASHER
11	6	101215	3/4-10 HEX NUT
12	1	204015	3-1/4 X 10 REPHASE CYLINDER
13	2	602228	Ø1.00 X 3-1/4" CYLINDER PIN
14	2	101249	5/32 X 1-3/4" COTTER PIN

HYDRAULIC LIFT SYSTEM (42-1/2' BAR - FEI)



COMPLETE VALVE KIT (No. 1 thru 9)
AND VALVE MOUNT HEX BOLTS
AVAILABLE USING PART NUMBER 203012.

ROUTE THESE HOSES ALONG THE RIGHT
HITCH TUBE AND FASTEN THEM USING THE
HOLD-DOWN BRACKETS PROVIDED.

DO NOT USE TEFLON TAPE OR THREAD COMPOUND
ON JIC FITTINGS. USE TEFLON TAPE OR THREAD
COMPOUND ONLY ON TAPERED PIPE FITTINGS.

REFER TO NEXT PAGE FOR PART IDENTIFICATION

HYDRAULIC LIFT SYSTEM (42-1/2' BAR - FEI)

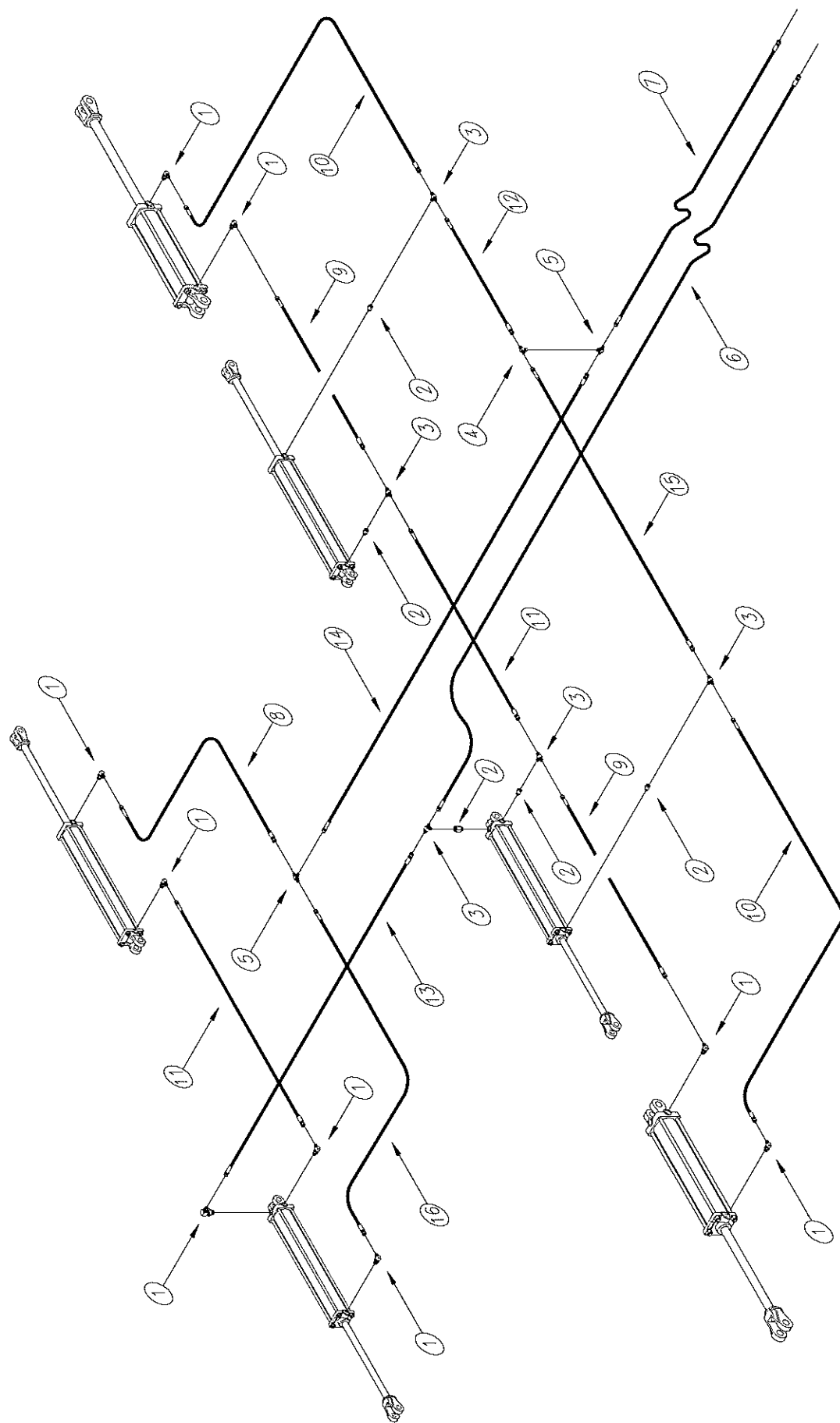
REF. #	QTY.	PART #	DESCRIPTION
1	1	203011	DIVIDER - COMBINER VALVE
2	2	201059	NO.8 FJIC X NO.8 MALE JIC SWIVEL 90
3	8	201002	NO.8 MJIC X NO.8 MALE ORING BOSS 90
4	1	201010	NO. 8 MJIC TEE
5	1	201058	NO. 8 FJIC X NO. 8 MJIC BRANCH TEE
6	1	201008	NO. 8 MJIC X NO. 6 MALE O-RING STRT.
7	1	201004	NO. 8 MJIC X NO. 8 MALE O-RING STRT.
8	1	202147	3/8 X 6" X 8 FJIC X 8 FJIC HOSE
9	1	202266	3/8 X 53" X 8 FJIC X 8 FJIC HOSE
10	2	202125	3/8 X 135" X 8 FJIC X 8 FJIC HOSE
11	1	202271	3/8 X 202" X 8 FJIC X 8 FJIC HOSE
12	1	202270	3/8 X 152" X 8 FJIC X 8 FJIC HOSE
13	1	202267	3/8 X 120" X 8 FJIC X 8 FJIC HOSE
14	2	202169	3/8 X 220" X 8 FJIC X 1/2" MNPT HOSE
15	2	101130	3/8-16 X 3-1/2" HEX BOLT PLT. (N/S)
16	2	101220	3/8" LOCK WASHER PLT. (NOT SHOWN)
17	2	101211	3/8-16 HEX NUT PLT. (NOT SHOWN)

DIVIDER-COMBINER VALVE TO BE FASTENED TO THE MAINFRAME USING PARTS #15, 16, 17.

ROUTE THE 3/8" HOSES FROM THE TRACTOR DOWN THE RIGHT HITCH TUBE, AND UNDER THE MAINFRAME

BE SURE TO USE TEFLON TAPE (OR OTHER PIPE-FITTING SEALANT) WHEN FASTENING HYDRAULIC COUPLINGS TO THE HOSES

HYDRAULIC WING FOLD SYSTEM (42-1/2" BAR - FED)

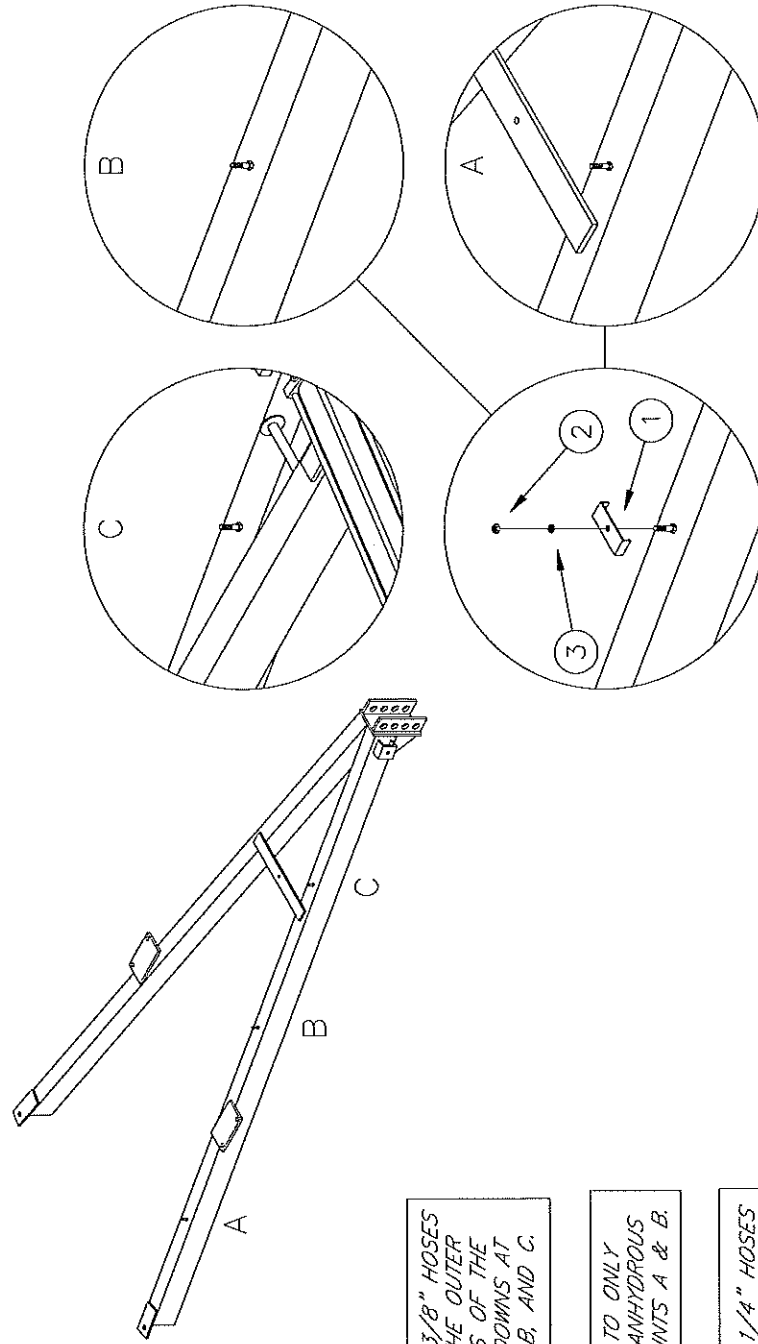


SEE REFERENCE LIST NEXT PAGE

HYDRAULIC WING-FOLD SYSTEM (42-1/2" BAR - FEI)

REF. #	QTY.	PART #	DESCRIPTION
1	9	201001	NO. 6 MJIC X NO. 8 MALE O-RING BOSS 90
2	5	201012	NO. 8 MALE O-RING X 1/4" FNPT BUSHING
3	5	201011	NO. 6 MJIC X 1/4" MNPT TEE
4	1	201050	NO. 6 MJIC X NO. 6 FJIC SWIVEL TEE
5	2	201009	NO. 6 MJIC UNION TEE
6	1	202157	1/4 X 3/8 MNPT X NO. 6 FJIC X 193" HOSE
7	1	202158	1/4 X 3/8 MNPT X NO. 6 FJIC X 160" HOSE
8	1	202047	1/4 X NO. 6 FJIC X NO. 6 FJIC X 126" HOSE
9	2	202264	1/4 X NO. 6 FJIC X NO. 6 FJIC X 94" HOSE
10	2	202049	1/4 X NO. 6 FJIC X NO. 6 FJIC X 86" HOSE
11	2	202265	1/4 X NO. 6 FJIC X NO. 6 FJIC X 116" HOSE
12	1	202159	1/4 X NO. 6 FJIC X NO. 6 FJIC X 110" HOSE
13	1	202035	1/4 X NO. 6 FJIC X NO. 6 FJIC X 120" HOSE
14	1	202045	1/4 X NO. 6 FJIC X NO. 6 FJIC X 76" HOSE
15	1	202005	1/4 X NO. 6 FJIC X NO. 6 FJIC X 66" HOSE
16	1	202263	1/4 X NO. 6 FJIC X NO. 6 FJIC X 49" HOSE

HOSE ROUTES AND HOSE CLAMP ASSEMBLY



FASTEN THE 3/8" HOSES
TOWARDS THE OUTER
EXTREMITIES OF THE
HOSE HOLDOWNS AT
POINTS A, B, AND C.

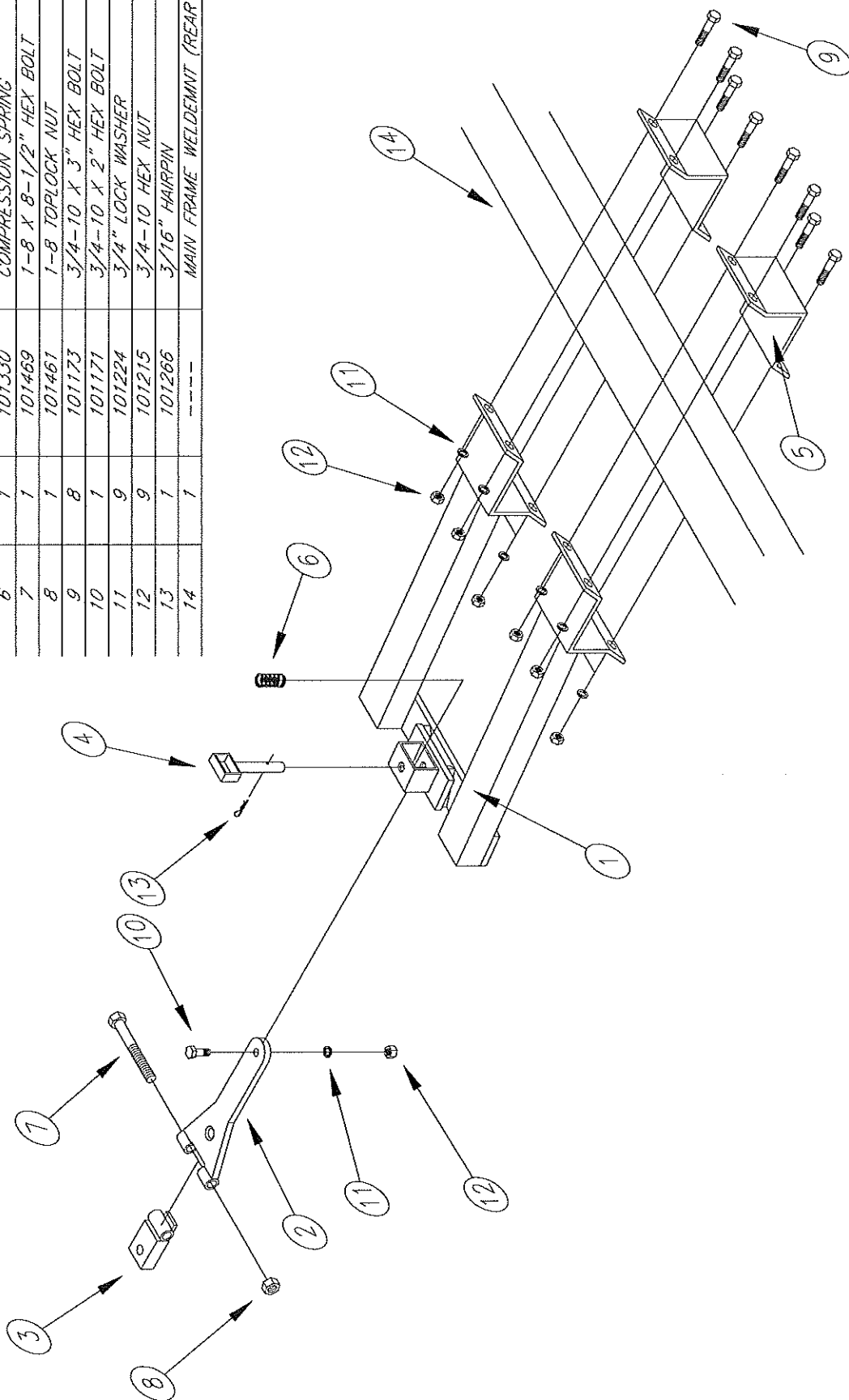
BE SURE TO ONLY
CLAMP THE ANHYDROUS
HOSE AT POINTS A & B.

FASTEN THE 1/4" HOSES
INSIDE OF THE 3/8"
HOSES AND OUTSIDE OF
THE ANHYDROUS
PRESSURE GAUGE
HOSE(S) AND THE WIRING
FOR THE IMPLEMENT
LIGHTS.

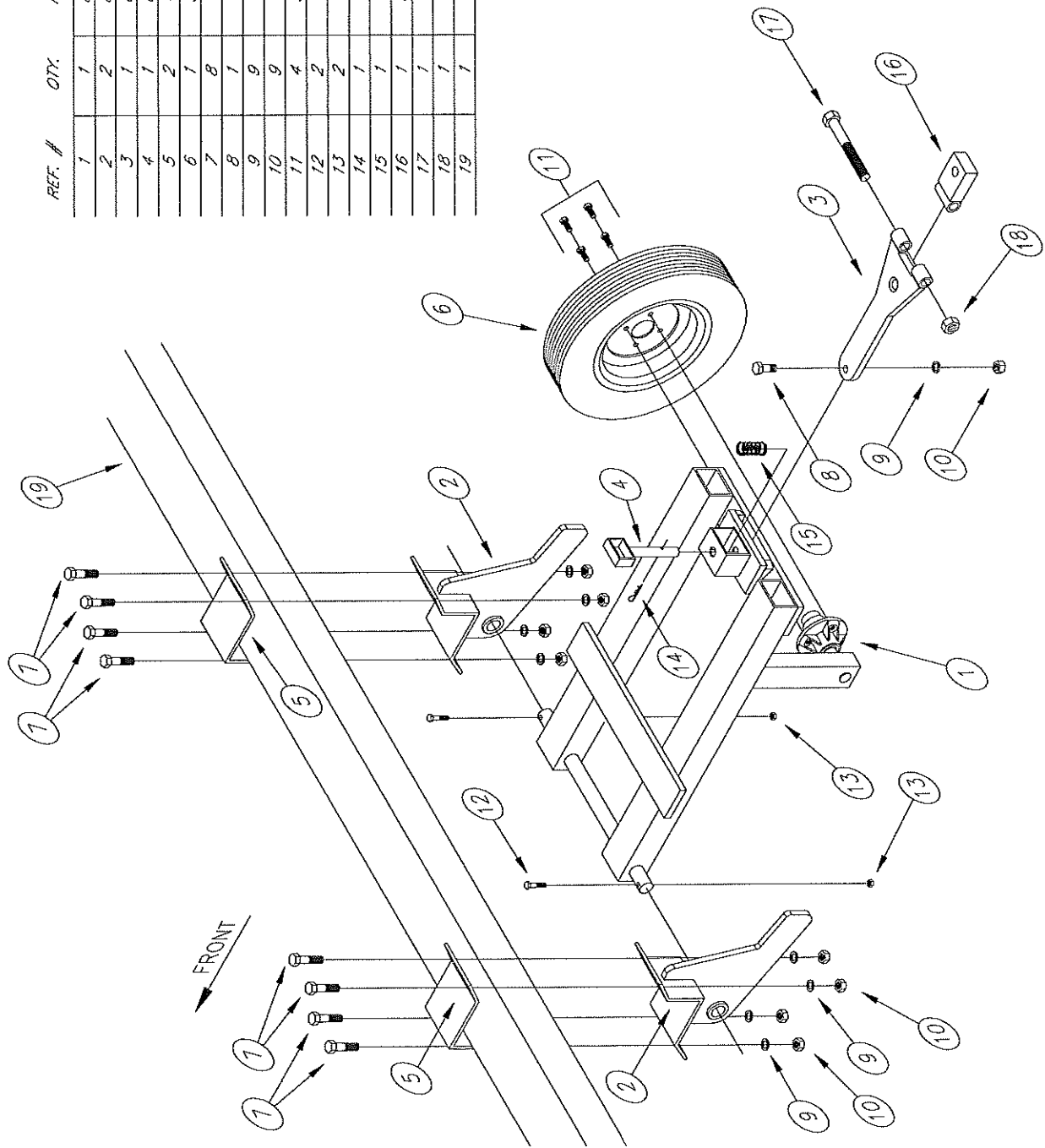
REF. #	QTY.	PART #	DESCRIPTION
1	3	400080	4 HOSE HOLDOWN BRACKET
2	3	101220	3/8" LOCK WASHER
3	3	101211	3/8-16 HEX NUT

NURSE TRAILER HITCH ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801087A	ANHYDROUS NURSE TRAILER HITCH
2	1	801189	DRAWBAR
3	1	801771	DRAWBAR CLEVIS
4	1	801195	Ø1.00 X 6" WELDED PIN
5	2	400224	1/2 X 6 X 15" - 7 X 5 SADDLE CLAMP
6	1	101330	COMPRESSION SPRING
7	1	101469	1-8 X 8-1/2" HEX BOLT
8	1	101461	1-8 TOPLOCK NUT
9	8	101173	3/4-10 X 3" HEX BOLT
10	1	101171	3/4-10 X 2" HEX BOLT
11	9	101224	3/4" LOCK WASHER
12	9	101215	3/4-10 HEX NUT
13	1	101266	3/16" HAIRPIN
14	1	----	MAIN FRAME WELDEMENT (REAR TUBE)



FLOATING REAR HITCH ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801765	FLOATING REAR HITCH
2	2	801766	HITCH PIVOT PLATE/SADDLE CLAMP
3	1	801189	DRAWBAR
4	1	801195	Ø1.00 X 6" WELDED PIN
5	2	400224	1/2 X 6 X 15" -- SADDLE CLAMP
6	1	301170	5.30-12 6 PLY TIRE & RIM
7	8	101173	3/4-10 X 3" HEX BOLT
8	1	101171	3/4-10 X 2" HEX BOLT
9	9	101224	3/4" LOCK WASHER
10	9	101215	3/4-10 HEX NUT
11	4	301193	1/2-20 X 1-1/4" WHIZ BOLT
12	2	101127	3/8-16 X 2" HEX BOLT
13	2	101455	3/8-16 TOPLOCK NUT
14	1	101266	3/16" HAIRPIN
15	1	101330	COMPRESSION SPRING
16	1	801771	DRAWBAR CLEVIS
17	1	101204	1-8 X 8" HEX BOLT
18	1	101461	1-8 TOPLOCK NUT
19	1	----	MAINFRAME WELDMENT (REAR TUBE)

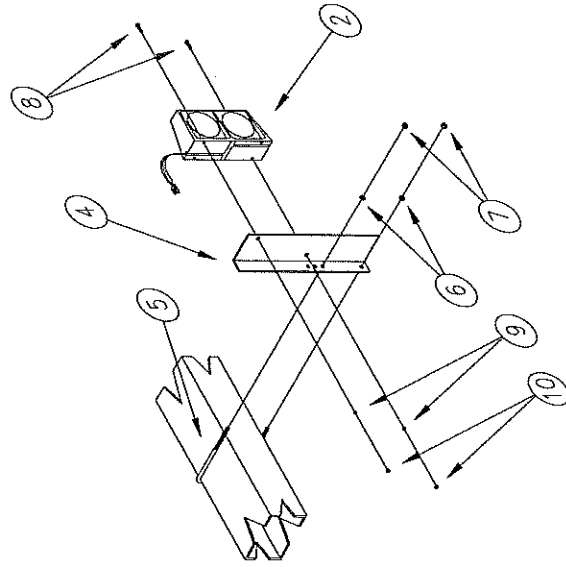
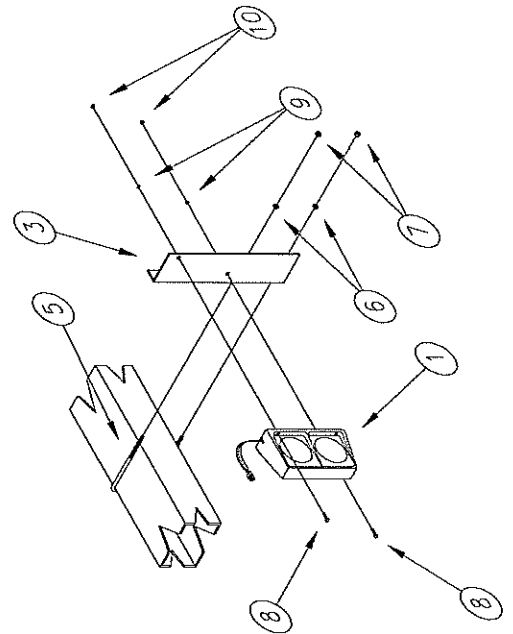
REVISED: 1/29/01

ATTACH THE SADDLE CLAMPS LOOSELY TO THE TOOLBAR, THEN INSERT PIN ENDS OF THE HITCH INTO THE PIVOT PLATES. ATTACH THE HITCH USING THE 7/16" HEX BOLTS. SLIDE THE PIVOT PLATES SO THAT THE HITCH IS CENTERED ON THE TOOLBAR, THEN TIGHTEN THE SADDLE CLAMPS.

LIGHTING PACKAGE

REF. #	QTY.	PART #	DESCRIPTION
1	1	500015	RIGHT HAND LIGHT UNIT
2	1	500016	LEFT HAND LIGHT UNIT
3	1	400060	RIGHT LIGHT MOUNTING BRACKET
4	1	400061	LEFT LIGHT MOUNTING BRACKET
5	2	101417	3/8-16 X 5 X 8-1/2" U-BOLT
6	4	101220	3/8" LOCK WASHER
7	2	101211	3/8-16 HEX NUT
8	4	101102	1/4-20 X 1" HEX BOLT
9	4	101218	1/4" LOCK WASHER
10	4	101209	1/4-20 HEX NUT

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

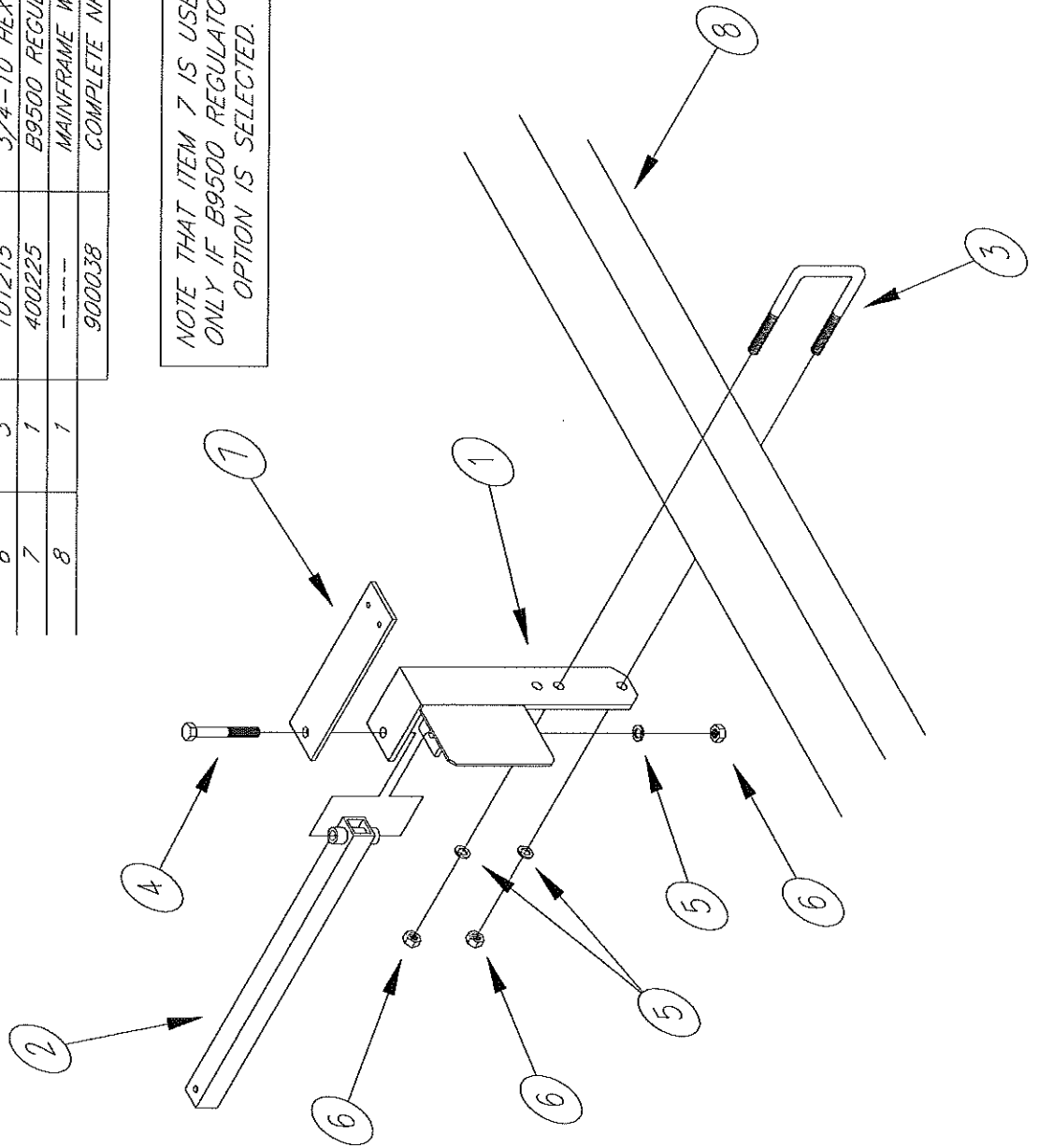


ATTACH LIGHT MOUNTING BRACKETS TO THE REAR TUBE OF THE INNER WING AS CLOSE TO THE MAINFRAME AS COULTER SPACING WILL ALLOW.

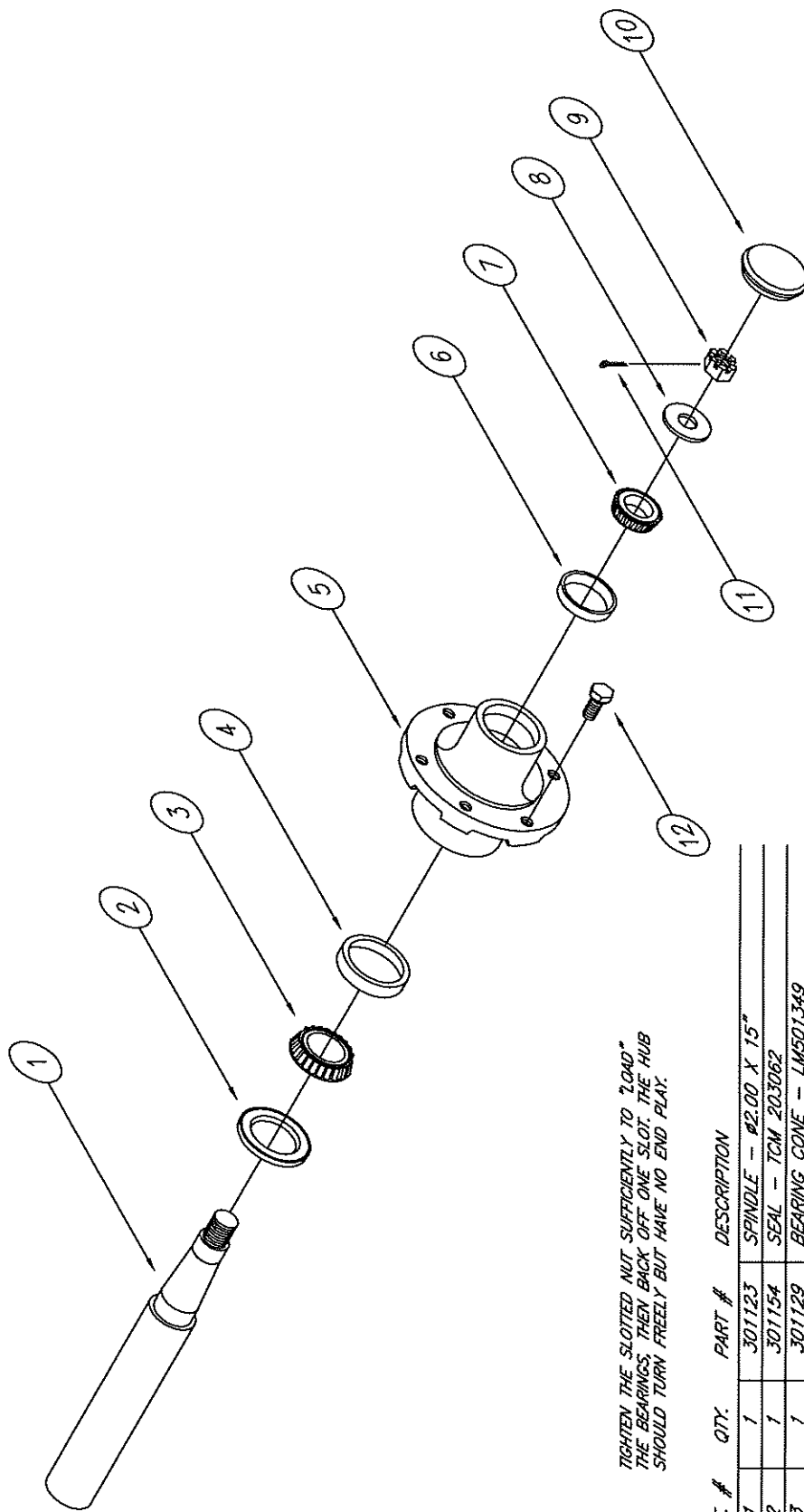
SINGLE REGULATOR BRACKET ASSEMBLY

REF. #	QTY.	PART #	DESCRIPTION
1	1	801683	SWING ARM MOUNTING BRACKET
2	1	801276	SWING ARM
3	1	101317	3/4-10 X 5 X 8-1/2" U-BOLT
4	1	101179	3/4-10 X 6" HEX BOLT
5	3	101224	3/4" LOCK WASHER
6	3	101215	3/4-10 HEX NUT
7	1	400225	B9500 REGULATOR MOUNTING BRACKET
8	1	----	MAINFRAME WELDMENT (REAR TUBE)
		900038	COMPLETE NH3 BRACKET/ARM ASSEMBLY

NOTE THAT ITEM 7 IS USED ONLY IF B9500 REGULATOR OPTION IS SELECTED.



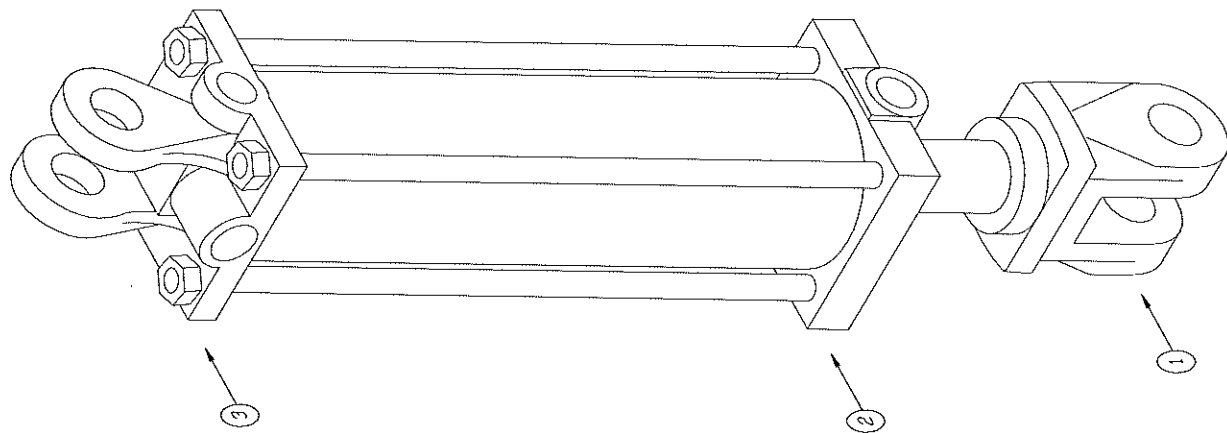
6 BOLT HUB & SPINDLE



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

REF. #	QTY.	PART #	DESCRIPTION
1	1	301123	SPINDLE - Ø2.00 X 15"
2	1	301154	SEAL - TCM 203062
3	1	301129	BEARING CONE - LM501349
4	1	301135	BEARING CUP - LM501310
5	1	301126	6 BOLT HUB - 6" BOLT CIRCLE
6	1	301134	BEARING CUP - LM67010
7	1	301132	BEARING CONE - LM67048
8	1	301157	WASHER - 2" O.D. X 13/16" I.D.
9	1	301153	SLOTTED NUT - 3/4-16 UNF
10	1	301143	DUST CAP
11	1	101249	COTTER PIN - 5/32 X 1-3/4"
12	6	301151	LUG BOLT - 9/16-18 UNF X 1-1/8"
-	1	301164	SPINDLE ASSEMBLY - COMPLETE
-	1	301160	HUB ASSEMBLY - COMPLETE

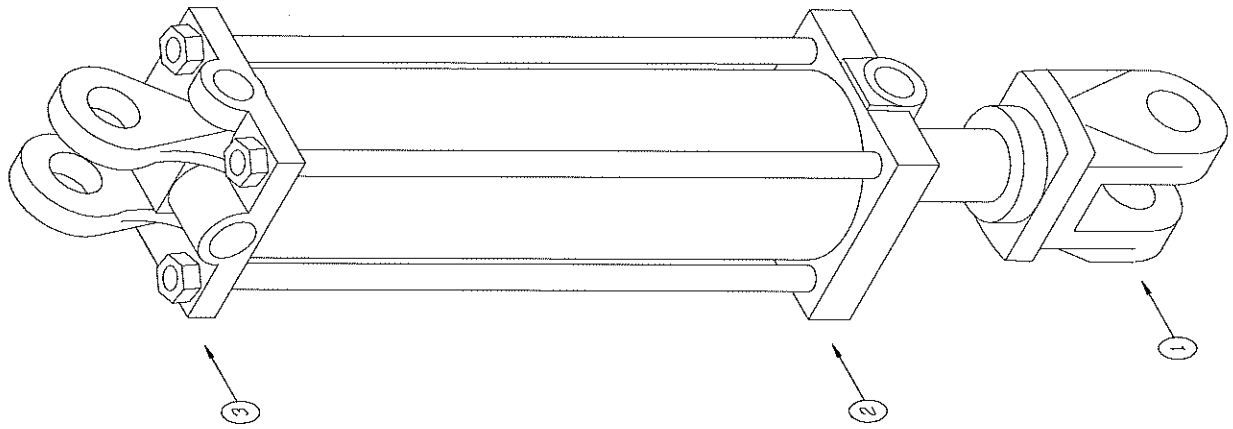
3-1/4 X 10" REPHASE CYLINDER



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

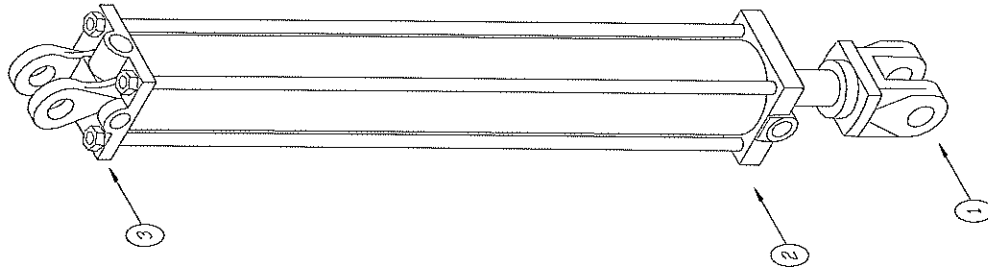
3-1/2 X 10" REPHASE CYLINDER

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

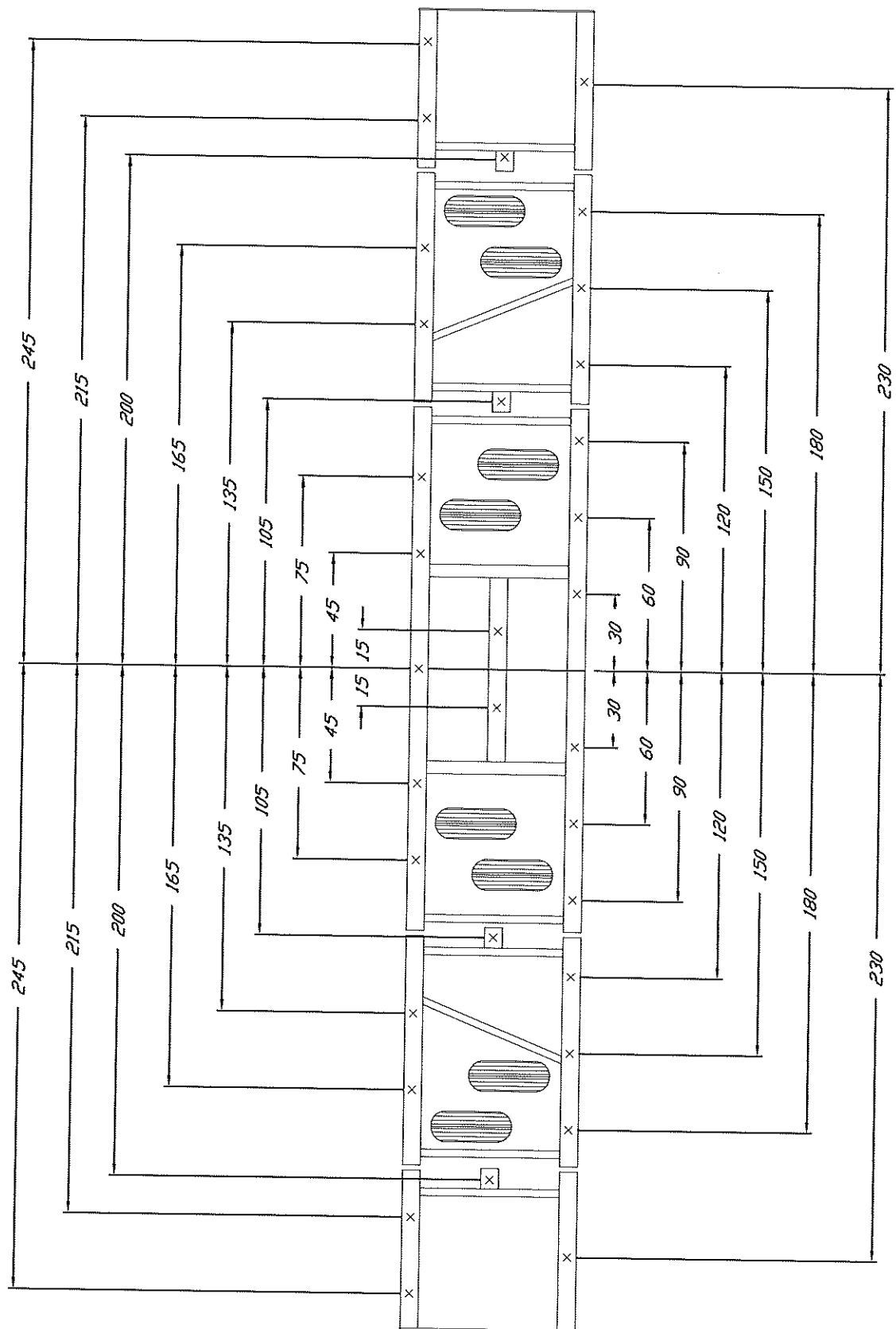


3 X 24" HYDRAULIC CYLINDER

ITEM	QTY	PART#	DESCRIPTION
1	1	205100	ROD CLEVIS
2	1	205103	ROD CAP
3	1	205105	CLEVIS CAP
-	1	204008	3 X 24" HYDRAULIC CYLINDER
-	1	205016	SEAL KIT



COULTER SPACINGS (42-1/2' BAR - FEI)



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.**