ASSEMBLY INSTRUCTIONS

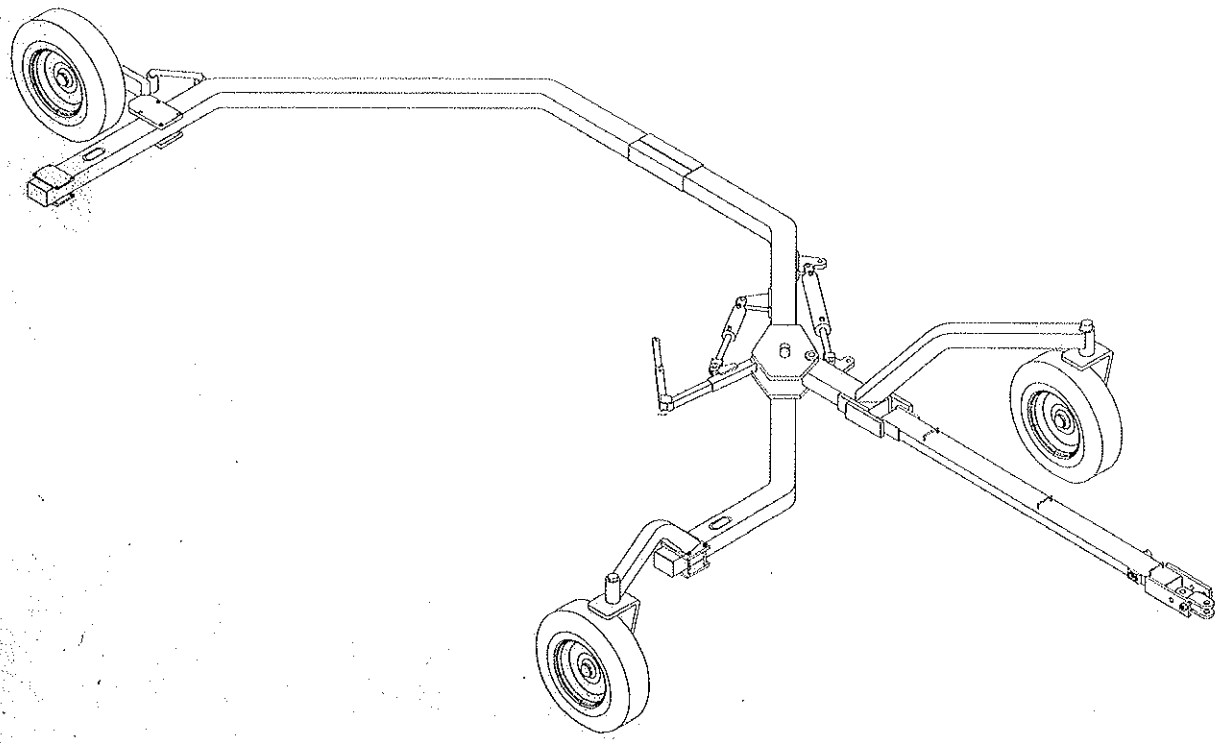
OPERATOR'S MANUAL

REPAIR PARTS CATALOG

Brillion

HYDRAULIC FOLD DOUBLE SEEDER HITCH

MODEL DH-212



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BRILLION IRON WORKS, INC.
BRILLION, WISCONSIN 54110

5K246

CONTENTS

INTRODUCTION

To obtain maximum benefits from the HYDRAULIC FOLD DOUBLE SEEDER HITCH, please study this manual carefully before starting assembly or operation. A special section, "Assembly Instructions", is included. If items in this manual are not understood, contact your local BRILLION dealer or call BRILLION IRON WORKS, INC., at (920) 756-2121.

The symbol shown here appears in this book and on your machine where special attention is needed to safeguard yourself against harm. It warns, **"ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!"** The message following the symbol points out important safety precautions. Read it and be alert to the possibility of personal injury or death.

BE ALERT!
YOUR SAFETY IS INVOLVED

Location Reference

Right Hand, Left Hand, and Forward designations are made from the viewpoint of standing behind the machine and facing the direction it will travel during field operation.

Parts Ordering

When ordering parts for this machine, include the complete model number and serial number. Refer to the name plate on the right hand side of the drawbar near hitch. (See Figure 1 on Page 5). Please read and record this number upon taking delivery of this machine.

HYDRAULIC FOLD HITCH Model _____

Serial Number _____

Date Purchased _____

Be sure to read the warranty card which is shipped with the machine. Return the proper portion of the card for recording at the factory.

SAFETY SUGGESTIONS

Federal law requires you to explain the safety and operating instructions furnished with this machine to all employees before they are allowed to operate the machine. These must be repeated to the employees at the beginning of each season. Be sure to observe and follow the instructions for the safety of anyone operating or near the unit.

Investigation has shown that nearly 1/3 of all farm accidents are caused by careless use of machinery. You can do your part in improving safety by observing the following suggestions. Insist that all people working with you or for you abide by them.

1. Keep bystanders a safe distance away when folding or unfolding hitch. Do not fold or unfold without having unit attached to tractor drawbar.

2. Do not attempt to fold or unfold the unit unless it is attached to the tractor drawbar. Loss of control can occur resulting in damage or personal injury.

3. Before applying pressure to the system, be sure all connections are tight and that hydraulic lines and hoses are not damaged.

4. Escaping fluid under pressure can be nearly invisible and have enough force to penetrate the skin causing serious injury. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks. If injured by fluid, see a doctor at once.

5. Do not make adjustments or lubricate machine while it is in motion.

6. Do not allow anyone to ride on tractor, hydraulic fold hitch, or grass seeders.

7. Do not transport at speeds over 15 mph.

8. When transporting the machine on a road or highway, use adequate warning symbols, reflectors, lights, and slow moving vehicle signs as required. Use a safety chain.

9. Relieve pressure in hydraulic lines before uncoupling hydraulic hoses from tractor. On most tractors this can be done by operating valves after engine is stopped.

10. Use of a safety chain is recommended if the unit is towed on a public road or highway. Total weight of towed unit must not exceed chain capacity as shown on the chain's identification tag. (See page 6)

Slack in the chain should be only enough to permit turning. Distance from hitch pin to attachment point or intermediate support should not exceed 9".

CAUTION When two or more machines are pulled in tandem, a larger chain may be required. Chain capacity must be greater than the total weight of towed implements. A second chain should be used between each implement.

CAUTION Replace chain if one or more links are broken, stretched, or otherwise damaged or deformed.

Keep attaching hardware fastened securely.

If bolts are replaced, be sure to use grade 5 or higher.

If you have any questions regarding the safety chain call Brillion Iron Works at (920) 756-2121.

Safety Decals

There are three levels of hazard intensity that appear with the safety alert symbol on safety decals: DANGER, WARNING, and CAUTION. The level of hazard intensity is determined by the following definitions:

DANGER - Immediate hazards which WILL result in severe personal injury or death.

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

CAUTION - A reminder of safety practices, or directs attention to unsafe practices which could result in personal injury.

Keep the safety decals clean so they can be observed readily. Wash with soap and water or cleaning solution as required. Replace those that become damaged or lost.

Order decals through your BRILLION dealer.

When applying decals to the machine, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirty oil, etc.

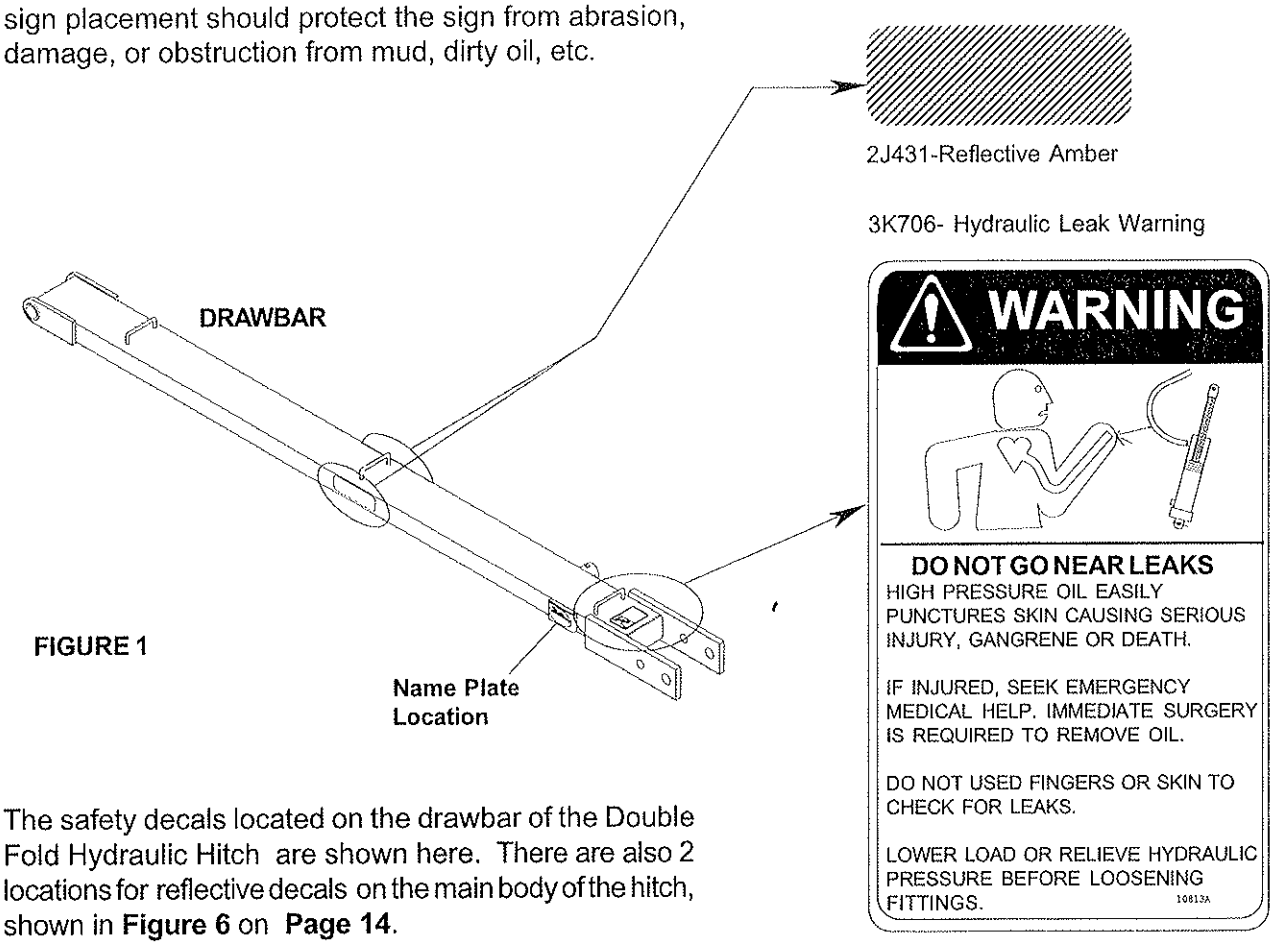


FIGURE 1

The safety decals located on the drawbar of the Double Fold Hydraulic Hitch are shown here. There are also 2 locations for reflective decals on the main body of the hitch, shown in **Figure 6** on **Page 14**.

SAFETY CHAIN (Optional)

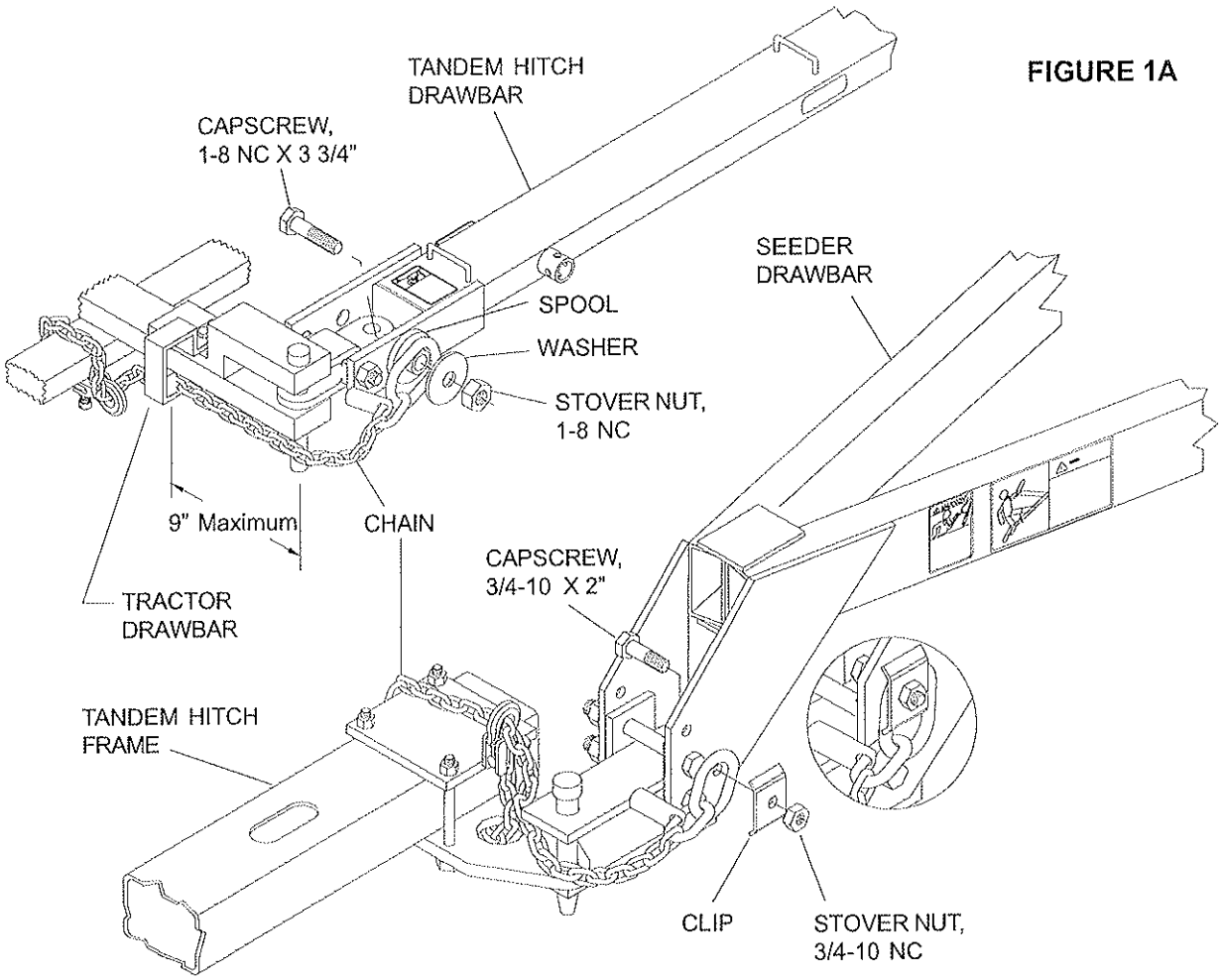


FIGURE 1A

We recommend that safety chains be used both between the tractor and the drawbar and between the tandem hitch and each towed seeder as shown above. Slack in the chain should be only enough to permit turning. Distance from hitch pin to attachment point or intermediate support should not exceed 9".

CAUTION When two or more machines are pulled in tandem, a larger chain may be required. Chain capacity must be greater than the total weight of towed implements. A second chain should be used between each implement.

CAUTION Replace chain if one or more links are broken, stretched, or otherwise damaged or deformed.

Keep attaching hardware fastened securely.

If bolts are replaced, be sure to use grade 5 or higher. (See page 24 for parts list.)

If you have any questions regarding the safety chain call Brillion Iron Works at (920) 756-2121.

OPERATION

It is important to remember the following three points whenever operating this unit:

1. Always use caution when folding and unfolding the hitch with seeders attached. Make sure that the unit is rolling when either folding or unfolding, or damage to stabilizer linkage or seeder may result.

2. Moderate to slow hydraulic flow is adequate for operation. Set remote flow control to slow setting or idle tractor to prevent damage to linkages.

3. Make sure that both seeders have hydraulics plumbed the same way (lift to lift, lower to lower). Failure to do this could result in linkage or cylinder damage.

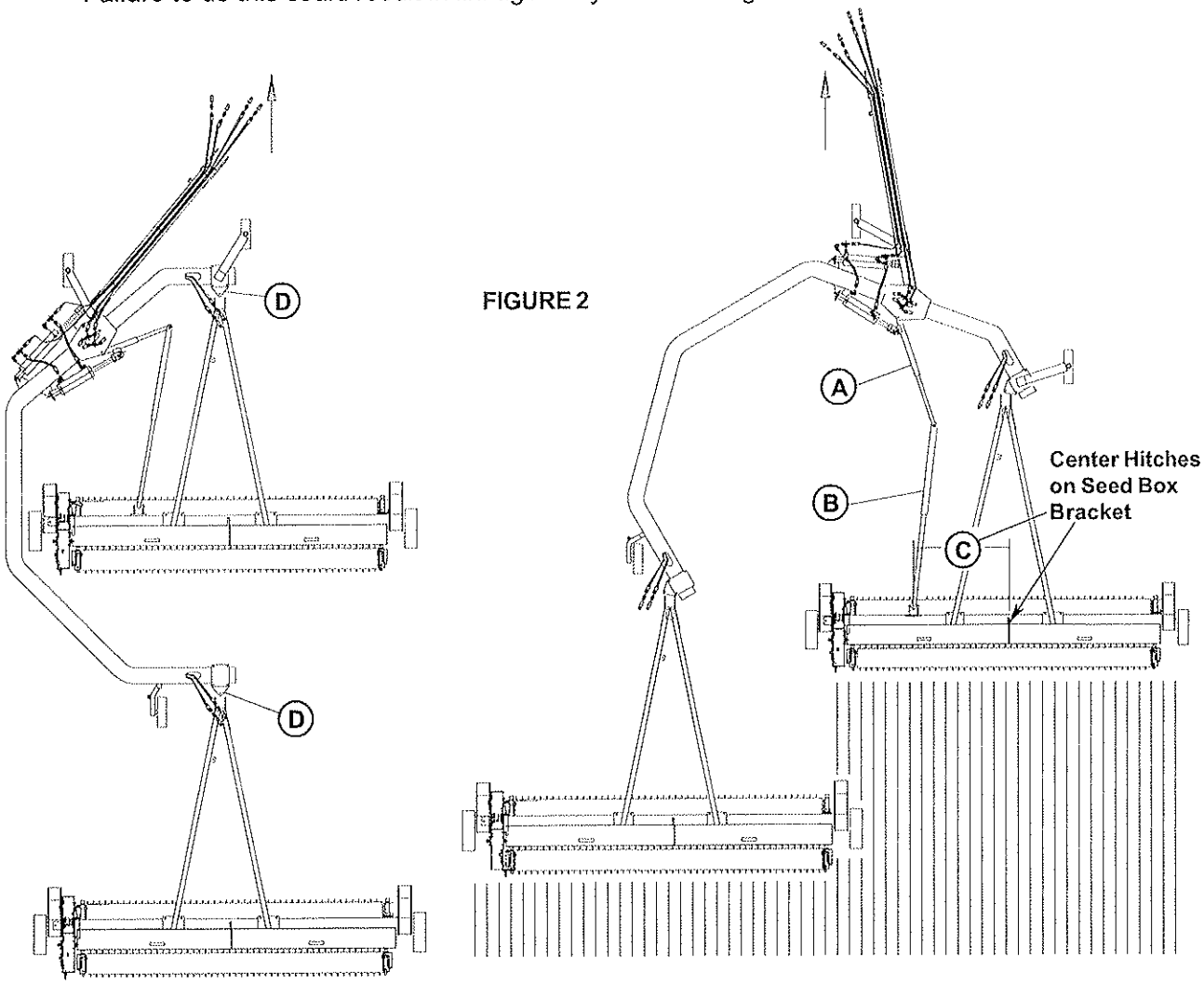


FIGURE 2

Compatibility of the Hydraulic Fold Double Seeder Htch and Brillion 12' Sure-Stand Seeders requires that the following dimensions be maintained. Refer to diagram above.

"A" This telescoping link should be adjusted to 35" bolt to bolt.

"B" This telescoping link should be adjusted to 82" bolt to bolt.

"C" The 5K345 bracket should be bolted onto the 6" x 4" frame of this seeder so that center of bracket is 43" from center of seeder frame. See Figure 3.

(Note that removal of the wheel-track eliminators, on seeder frame, may be necessary to achieve 43" "C" dimension as described above.)

"D" Edge of 5K351 drawbar pull should be 3 1/2" from end of 4" x 6" frame tubing. See page 6.

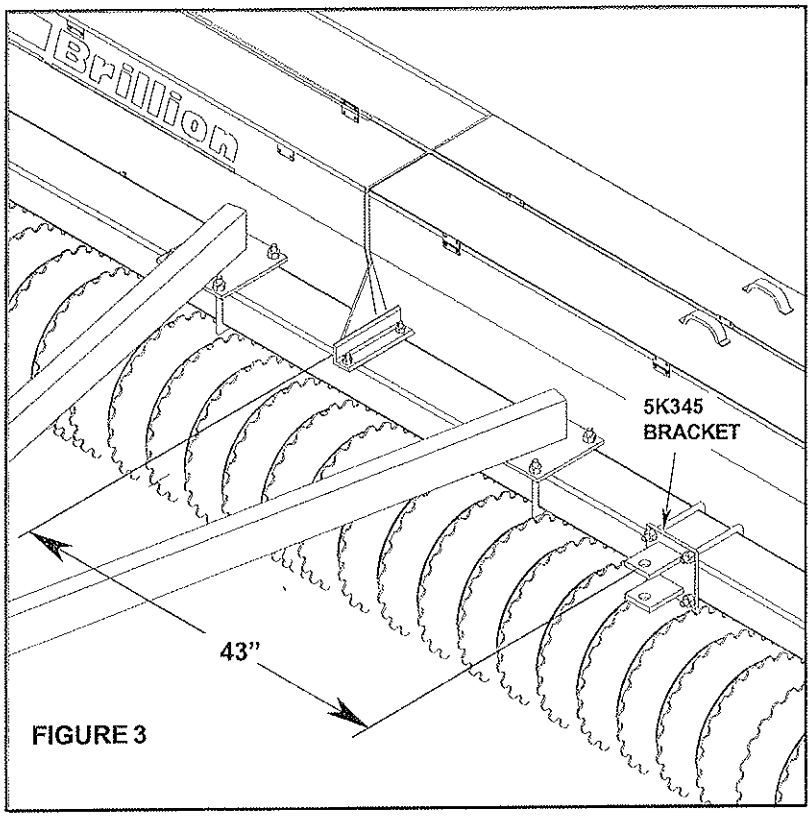


FIGURE 3

TROUBLE SHOOTING

ROAD POSITION:

If front seeder is tracking to the **right, shorten link B by 2" and lengthen link A by 2"**. If seeder is tracking to the left, (tire hitting the seeder hitch frame), shorten link A by 2". Two inches may be too much or too little, but this gives you a starting point.

FIELD POSITION - SEEDERS OVERLAPPING:

To correct his problem, **lengthen both arms A and B by 2"**. This should correct or help your problem. If seeders are still overlapping, adjust both arms another 2" and continue this procedure until seeders are running correctly.

FIELD POSITION - SEEDERS OVER-SPACED:

When seeders are leaving a gap between the seeded areas, correct this problem by **shortening both links A and B by 2"**. This is the reverse procedure of seeders overlapping.

ASSEMBLY INSTRUCTIONS

NOTE: *Refer to Repair parts section of this manual for additional parts and components identification and location.* Select a smooth and level area that can be easily reached by hoist or lift truck. Identify and separate components and hardware for easy access.

1. Place the front main frame and the rear main frame in their respective positions. (See page 14) Connect the front and rear frame with the frame clamps and secure with 1" x 8" bolts and nuts. Align both frame parts and tighten bolts.

2. With a hoist or lift truck, raise the frame and support approximately 24" high.

3. Assemble two front castor wheels by installing the wheel arm into the respective castor frames. (Note: Remove paint from the mating parts and coat with grease to ease assembly.) Secure wheel arms with 1/2" x 3" bolt and nuts. Install 1/2" x 1 1/2" bolt with jam nut in lower tapped hole. This is a stabilizer bolt and its purpose is to keep the castor wheel from shimmying at transport speed. Tighten just enough to stabilize wheel and lock jam nut. Install grease fitting in upper hole.

4. Assemble rear castor wheel by inserting top weldment plate through the tail wheel arm and bottom weldment plate. (Note: Remove paint from the mating parts and coat with grease to ease assembly.)

5. Attach rear castor wheel assembly to rear main frame with 3/4" x 6" bolts and nuts. Outer edge of top weldment plate should be 44" from end of main frame tube. (See page 19.) Tighten bolts.

6. Attach right front castor wheel assembly to front main frame with 3/4" x 6" bolts and nuts. The lower plate serves as both the attachment plate and the hitch for the front seeder. Outer edge of front castor frame should be against reference tab on frame. Tighten bolts.

7. Attach left front castor wheel assembly/hitch bracket to front main frame with 1 1/2" x 8" bolt and nut. Tighten bolt to facilitate hitch pivot at this point.

8. Remove paint from wheel hub bolt holes, lubricate wheel bolts, and attach wheels and tires to each castor assembly. Tighten wheel bolts.

9. Attach drawbar to hitch brackets with 1 1/2" x 12" bolt and nut. Drawbar must be installed with hose loops to the top. Tighten bolt to facilitate drawbar pivot at this point. Install hitch jack and hitch clevis.

10. Assemble stabilizer bar as shown on page 17. Attach the stabilizer bar assembly to the rear of the front main frame with a 1" x 6" bolt and nut. Tighten bolt to facilitate stabilizer pivot. Refer to page 6 for initial linkage dimensions and location.

11. Attach rear drawbar hitch to main frame with 3/4" x 6" bolts and nuts. Outer edge of top attachment plate should be 3 1/2" from edge of rear frame. See page 19. Tighten bolts.

12. The rear wheel lock arm (5K405) is to be used for transporting the hitch in the road position **without** the seeders attached.

13. For hydraulic system assembly see separate section on pages 12 & 21. Be sure to bleed the hitch's hydraulic system before hooking to seeders. To bleed system remove rod end pins from the cylinders, and cycle the cylinders at least 3 times, Hold the valve at the end of each cycle for approximately 15 seconds. Re-attach the rod ends and secure the pins. **NOTE: Use caution when folding and unfolding the hitch with the seeders attached. Make sure the unit is rolling when either folding or unfolding. Damage to stabilizer linkage or seeder is possible if this caution is not followed!**

14. For electrical system assembly, see pages 13 & 23.

HYDRAULIC SYSTEM ASSEMBLY

Assemble the hydraulic cylinders to the folding hitch frame with the 3 1/2 x 20 cylinder on the left and the 3 x 8 cylinder on the right as shown (See Figure 4). Then attach the fittings and hoses as illustrated.

Notice that the hoses routed to the seeders run inside the frame tube and that the hoses routed over the drawbar to the tractor thread under the loops on top of the drawbar.

TIGHTENING PROCEDURE FOR SWIVEL 0-RING FITTINGS

1. Install the fitting until the metal washer which backs up the O-ring contacts the face of the boss.
2. Orient the fitting by turning *counter-clockwise* up to 1 turn.
3. Tighten the lock nut using 50-60 foot pounds torque.

TIGHTENING PROCEDURE FOR 37° JIC SWIVEL FEMALE NUTS

1. Check flare and flare seat for defects.
2. Lubricate the connection.
3. Install hoses without twists;
4. Hand tighten until connection bottoms.
5. *Using 2 wrenches to prevent twisting,* rotate the swivel nut 2 wrench flats (1/3 turn).
6. For reassembly, follow the same procedure but tighten only 1 wrench flat (1/6 turn).

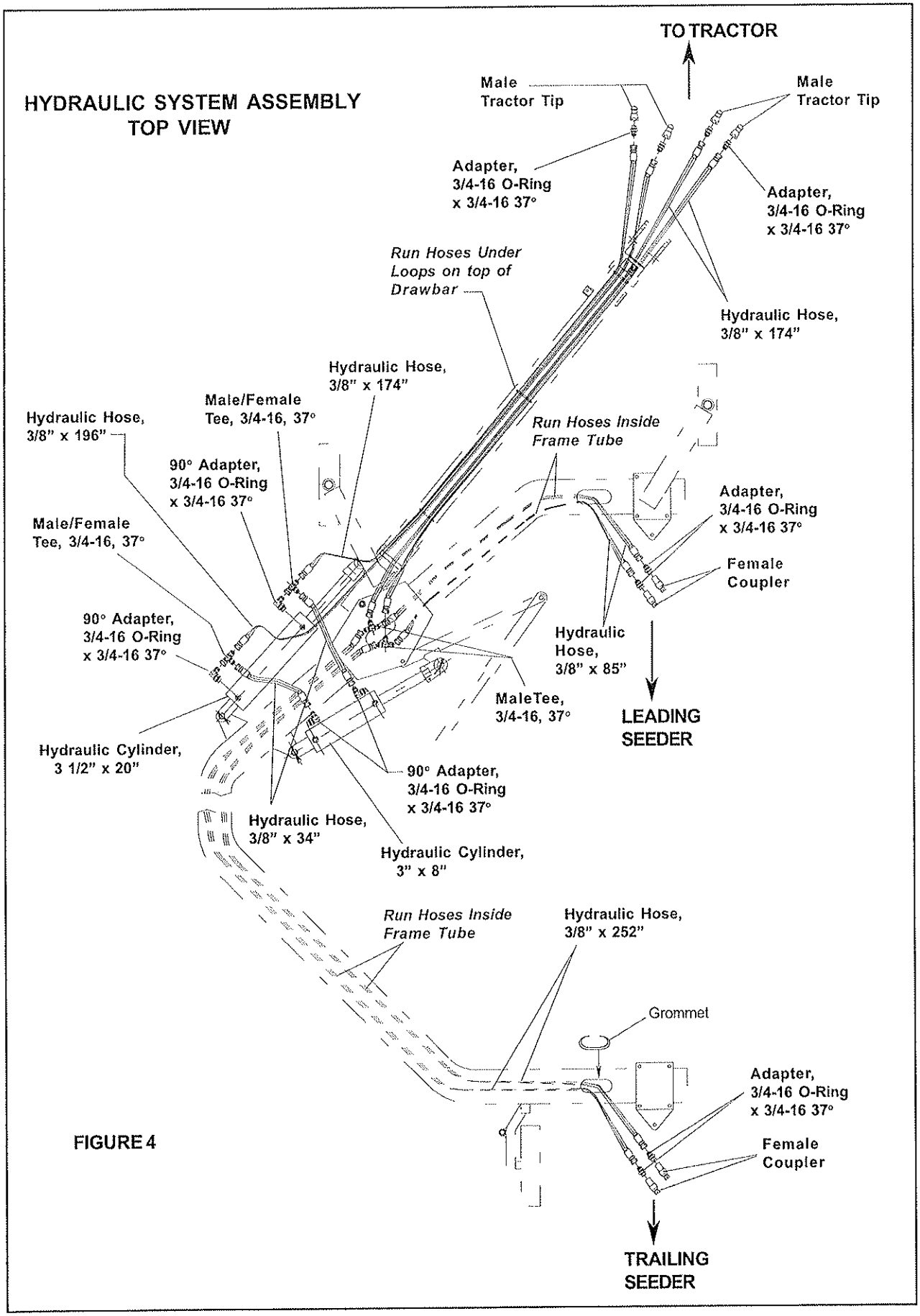

HYDRAULIC SYSTEM ASSEMBLY
TOP VIEW
TO TRACTOR
Male
Tractor Tip
Male
Tractor Tip
Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Run Hoses Under
Loops on top of
Drawbar
Hydraulic Hose,
3/8" x 174"
Hydraulic Hose,
3/8" x 174"
Male/Female
Tee, 3/4-16, 37°
Hydraulic Hose,
3/8" x 196"
Run Hoses Inside
Frame Tube
90° Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Male/Female
Tee, 3/4-16, 37°
Female
Coupler
90° Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Hydraulic
Hose,
3/8" x 85"
MaleTee,
3/4-16, 37°
LEADING
SEEDER
Hydraulic Cylinder,
3 1/2" x 20"
90° Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Hydraulic Hose,
3/8" x 34"
Hydraulic Cylinder,
3" x 8"
Run Hoses Inside
Frame Tube
Hydraulic Hose,
3/8" x 252"
Grommet
Adapter,
3/4-16 O-Ring
x 3/4-16 37°
Female
Coupler
TRAILING
SEEDER

FIGURE 4

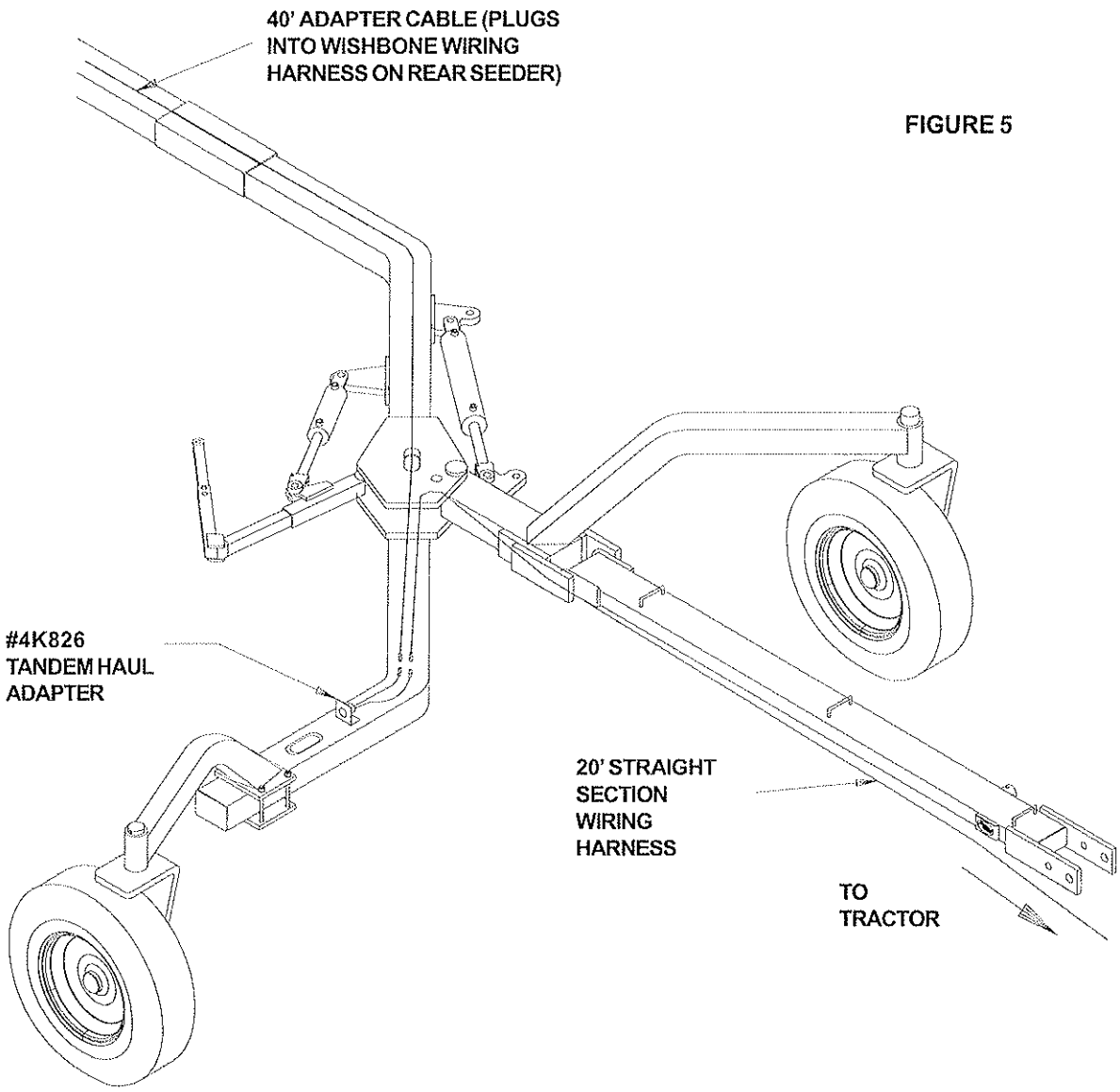


FIGURE 5

ELECTRICAL ASSEMBLY FOR WARNING LIGHTS

Electrical components are provided to complement the warning light kits used with the grass seeders. See View Above. Mount the #4K826 tandem haul adapter onto the hydraulic fold hitch frame, as illustrated above, with 1/4" capscrew. It will be necessary to drill two 1/4" holes in frame to accomplish this. Plug the straight section harness from the leading seeder into this adapter. Connect the 20' straight section harness to this adapter and run it along the frame and drawbar and up to the tractor.

Now connect the 40' adapter cable to the tandem haul adapter. Then run this cable inside frame and all the way back to wishbone harness on trailing seeder. Connect 40' adapter harness directly to this wishbone harness. The 10' straight section wiring harness from trailing seeder will not be needed.

OVERVIEW OF ASSEMBLED HYDRAULIC FOLD HITCH

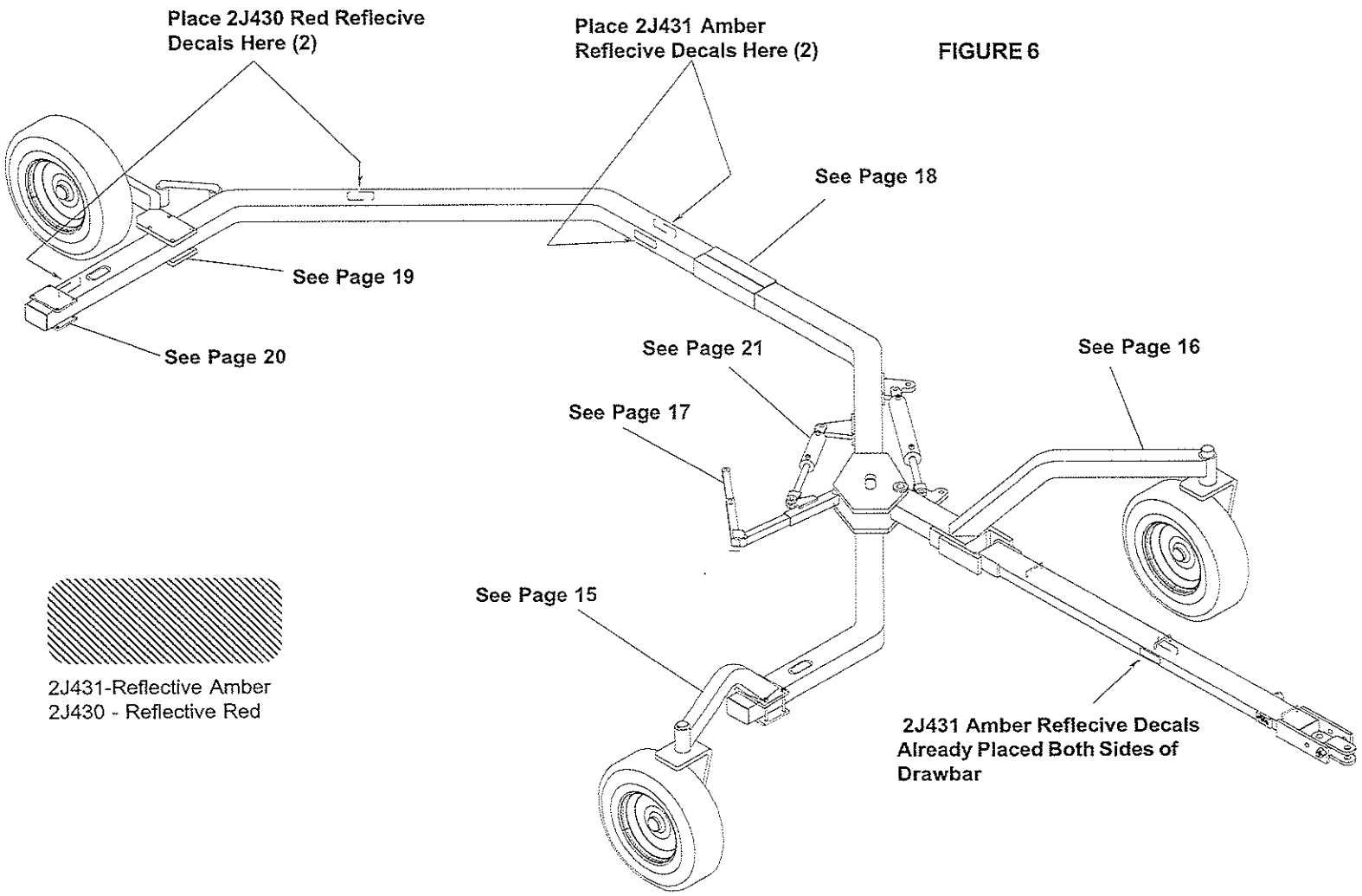
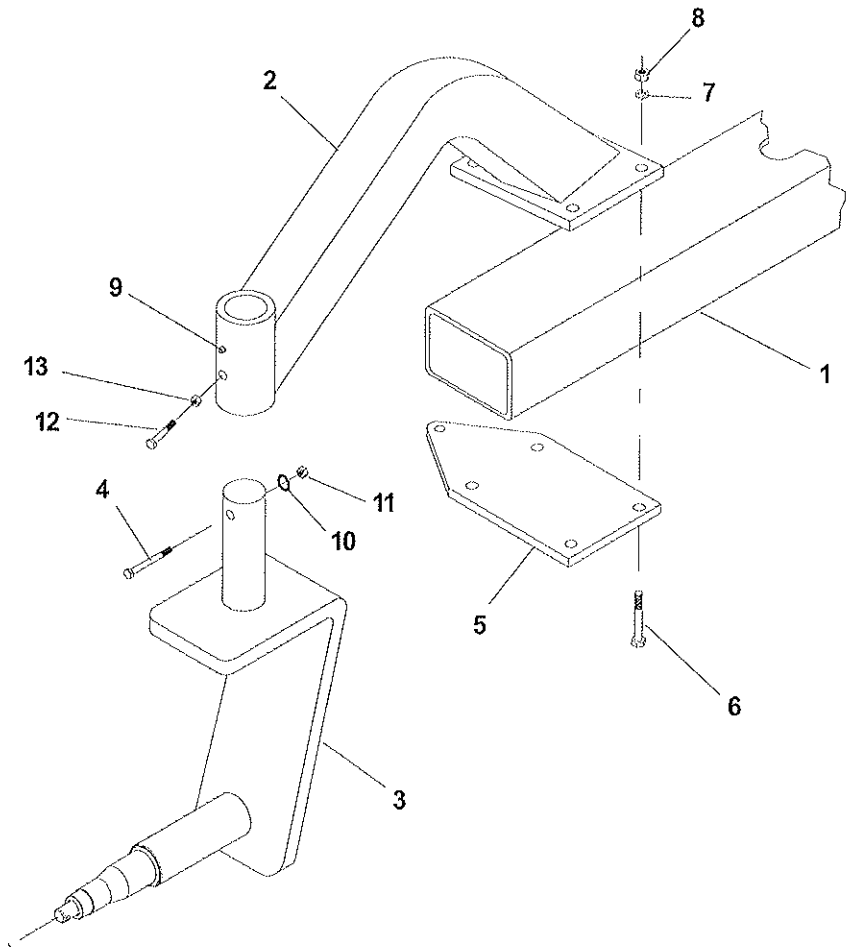
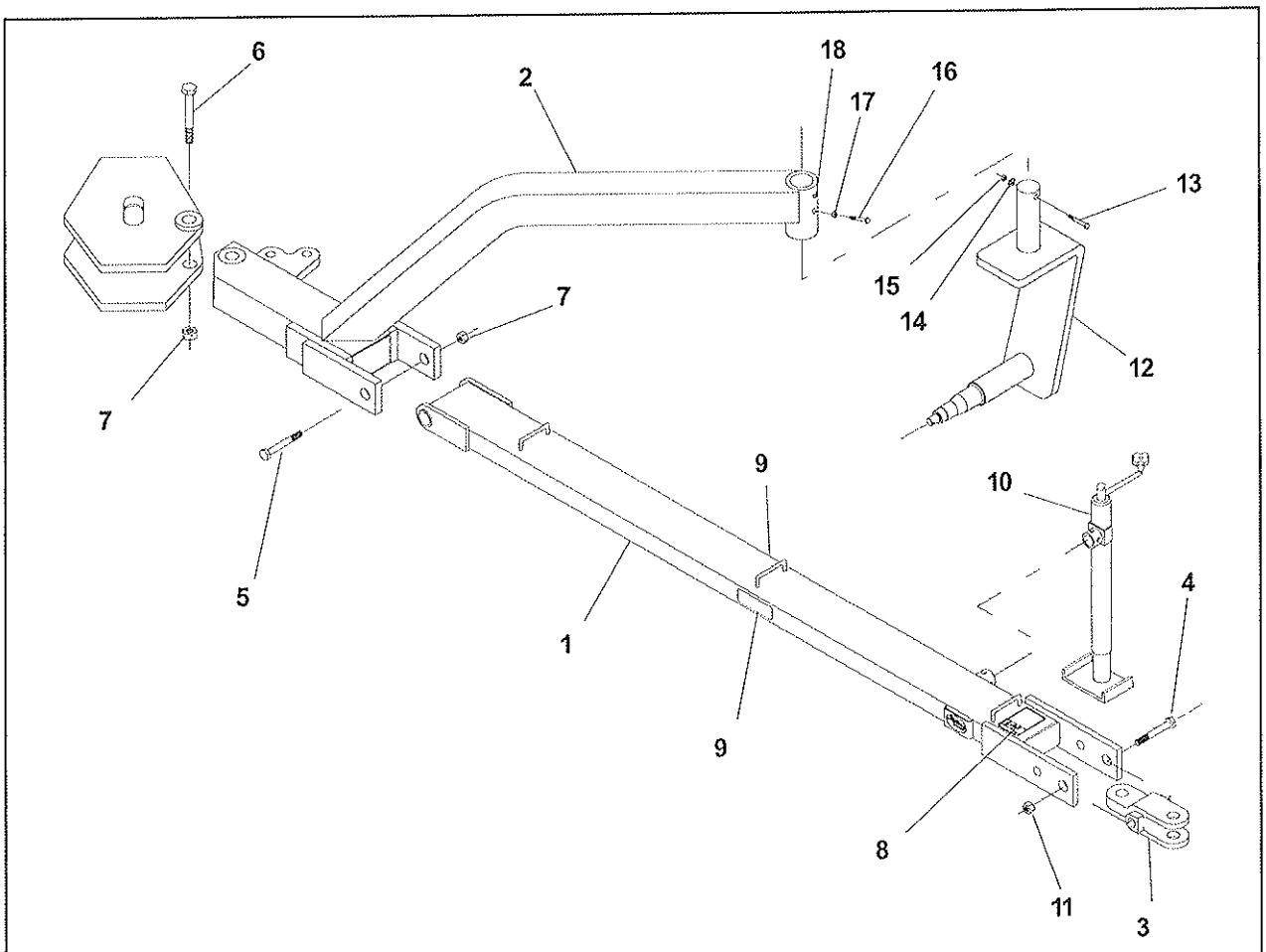


FIGURE 6

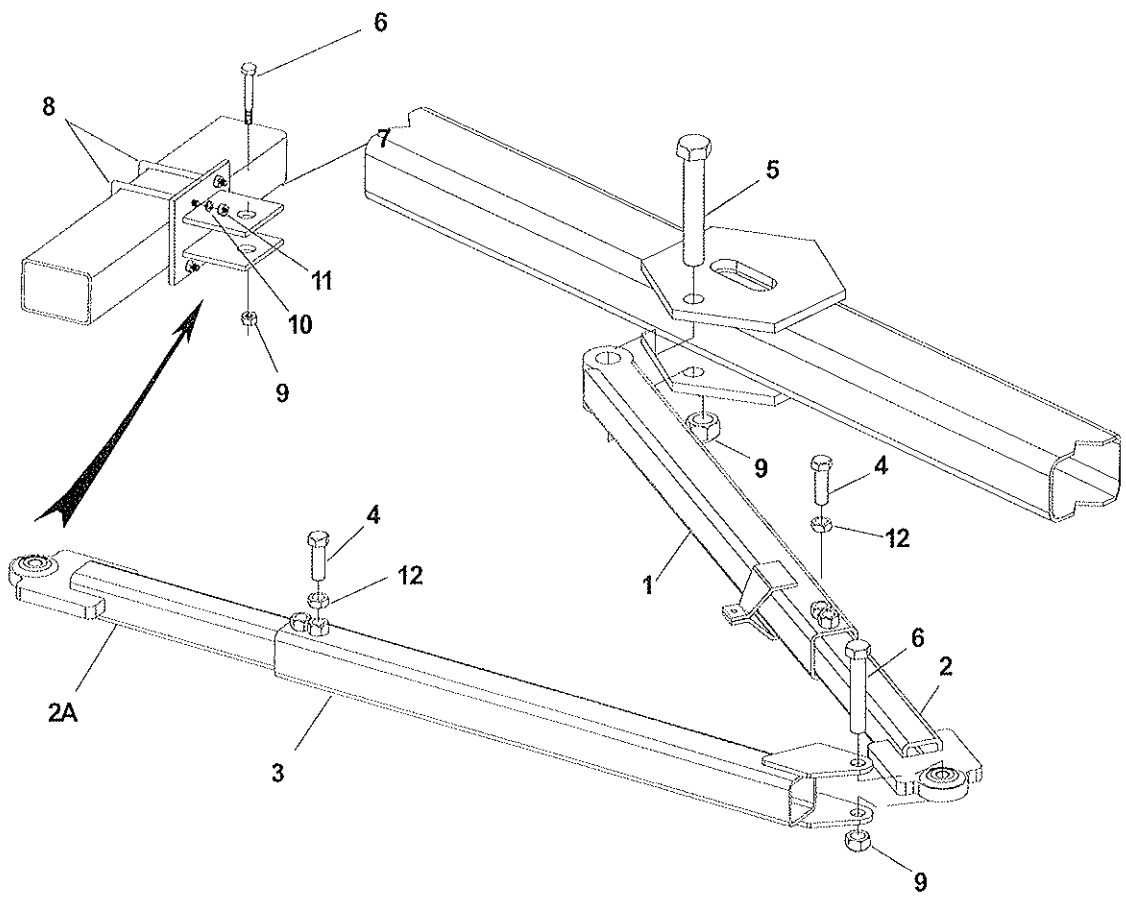


FRONT CASTOR WHEEL ASSEMBLY

Index No.	Part No.	Description	No. Required	Code No.
1	5K348	Front Main Frame	1	22-1
2	5K349	Front Castor Frame	1	22-5
3	5K403	Castor Wheel Arm	1	22-6
	5K350	Castor Wheel Arm, Incl. Hub	1	22-6A
4	8C528	Capscrew, 1/2" x 3"	1	22-7
5	5K351	Drawbar Pull	1	22-8
6	9D509	Bolt, 3/4" x 6 1/2"	4	22-9
7	1C211	Lockwasher, 3/4"	4	
8	1C210	Hex Nut, 3/4"	4	22-9
9	7C414	Grease Fitting	1	
10	1C109	Lockwasher, 1/2"	1	
11	1C390	Hex Nut, 1/2"	1	22-7
12	1C267	Capscrew, 1/2-13 NC x 1 1/2"	1	
13	5D304	Jam Nut, 1/2-13 NC	1	

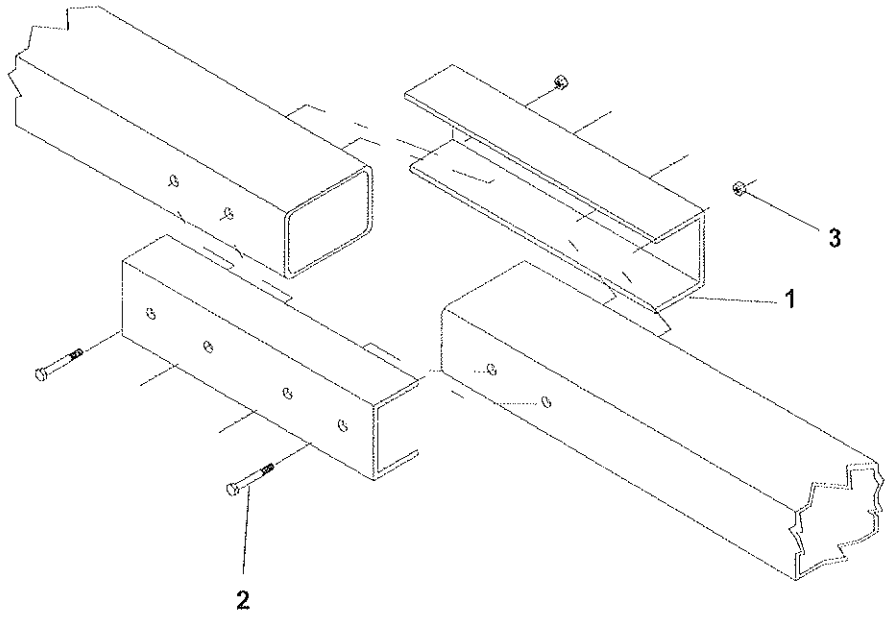


		DRAWBAR ASSEMBLY		
Index No.	Part No.	Description	No. Required	Code No.
1	5K343	Drawbar	1	
2	5K353	Hitch Bracket	1	23-4
3	2J858	Hitch	1	
4	3J607	Machine Bolt, 1 1/4-7 NC x 9 1/2"	1	
5	5K354	Bolt, 1 1/2" x 12"	1	23-10
6	5K355	Bolt, 1 1/2" x 8"	1	23-11
7	5K356	Nut, 1 1/2"	2	23-12
8	3K706	Decal, Hydraulic Leak Warning	1	
9	2J431	Reflective Decal, Amber	2	
10	3J880	Drawbar Jack	1	
	6K458	Replacement Pin, 9/16" with chain & screw	1	.36
	3J882	Jack Swivel	1	
11	2J783	Lock Nut, 1 1/4-7 NC dHex w/ nylon insert	1	
12	5K403	Castor Wheel Arm	1	22-6
13	8C528	Capscrew, 1/2" x 3"	1	22-7
14	1C109	Lockwasher, 1/2"	1	
15	1C390	Hex Nut, 1/2"	1	22-7
16	1C267	Capscrew, 1/2-13 NC x 1 1/2"	1	
17	5D304	Jam Nut, 1/2-13 NC	1	
18	7C414	Grease Fitting	1	



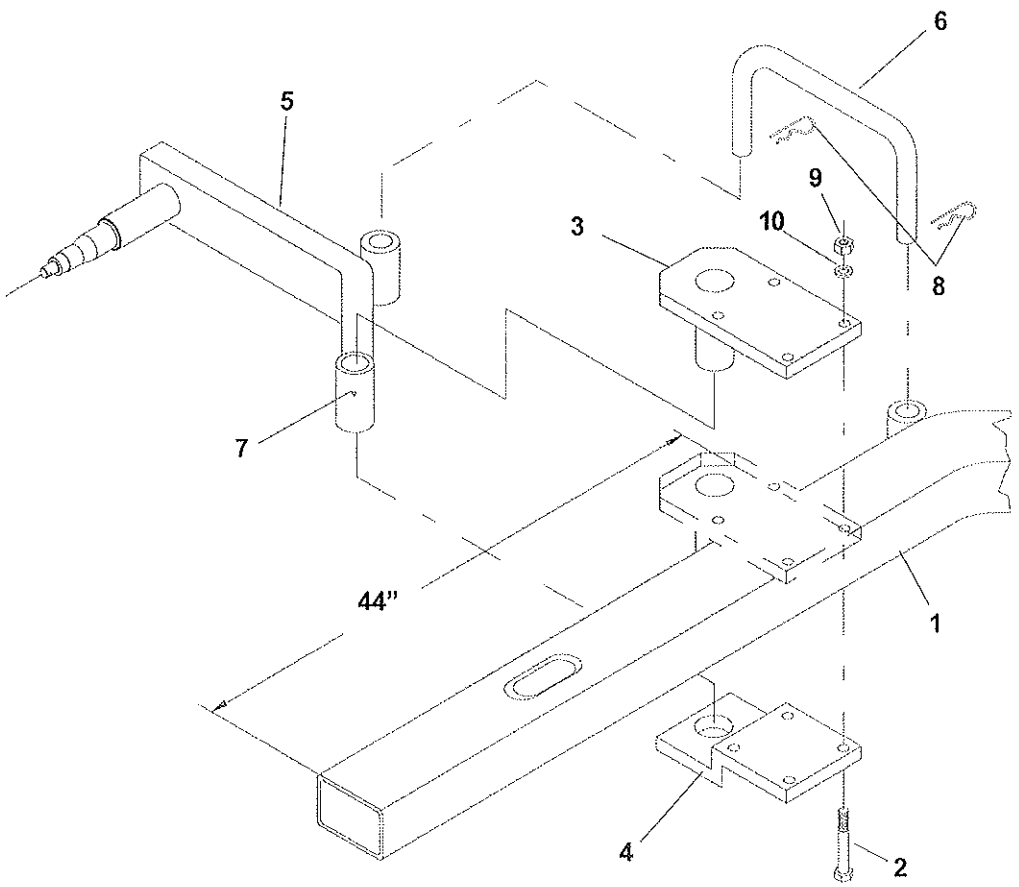
STABILIZER BAR ASSEMBLY

Index No.	Part No.	Description	No. Required	Code No.
1	5K365	Stabilizer Bar	1	24-20
2	5K366	Stabilizer Bar	1	24-21
2A	5K247	Stabilizer Bar (40" Long)	1	
3	5K367	Stabilizer Bar	1	24-22
4	5K368	Bolt, 1" x 2"	4	24-23
5	6D528	Bolt, 1" x 6"	1	24-24
6	5K369	Bolt, 1" x 5"	2	224-25
7	5K345	Bracket	1	
8	3J561	U-Bolt, 1/2"	2	
9	6D306	Lock Nut, 1"	3	
10	1C109	Lockwasher, 1/2"	4	
11	1C390	Hex Nut, 1/2"	4	
12	7D430	Jam Nut, 1"	4	



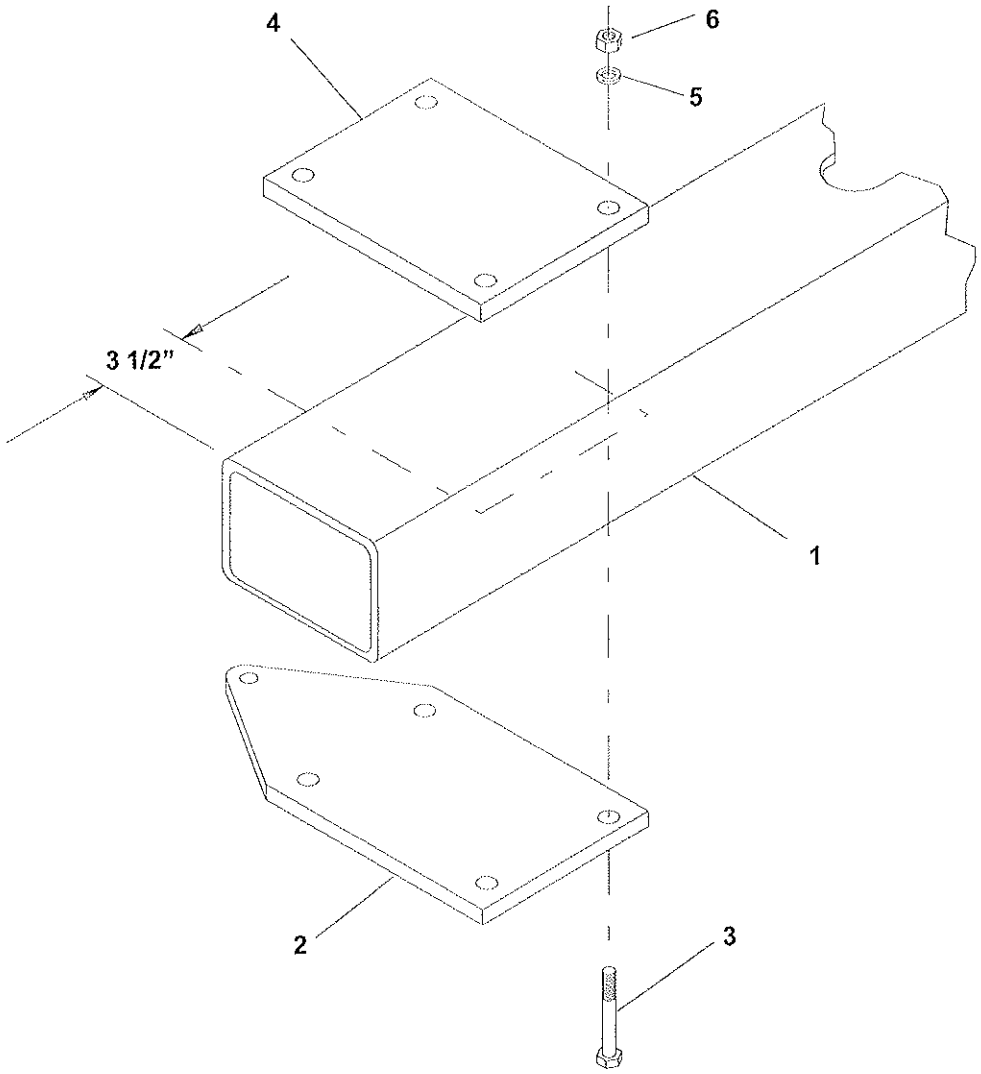
FRAME SPLICE COMPONENTS

Index No.	Part No.	Description	No. Required	Code No.
1	5K381	Frame Clamp	2	25-13
2	4K463	Bolt, 1-8 NC x 8"	4	24-14
3	6D306	Lock Nut, 1-8 NC	4	

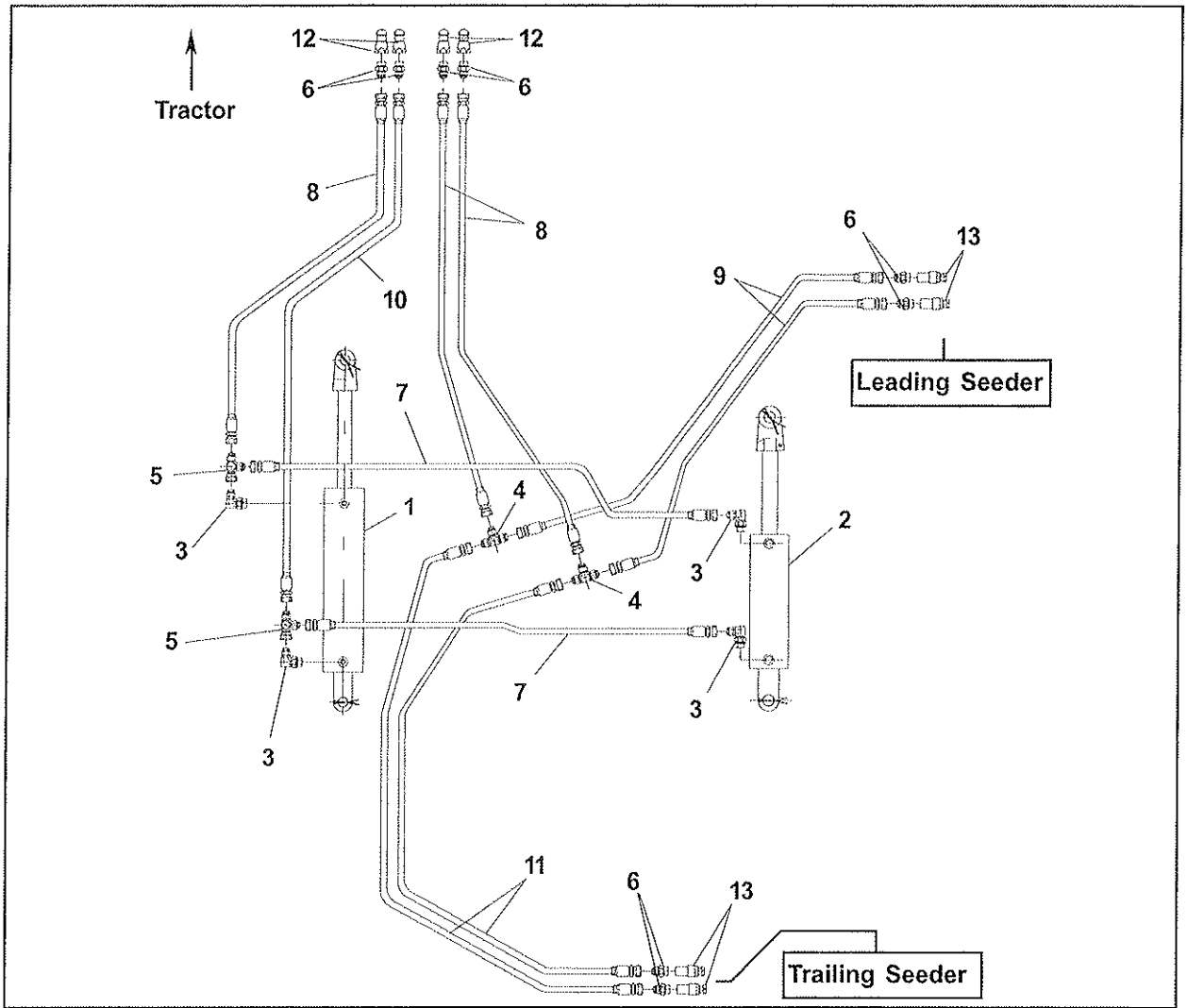


REAR WHEEL ASSEMBLY

Index No.	Part No.	Description	No. Required	Code No.
1	5K358	Back Main Frame	1	26-2
2	9D509	Bolt, 3/4" x 6 1/2"	4	22-9
3	5K361	Top Plate	1	26-15
4	5K362	Bottom Plate	1	26-16
5	5K404	Tail Wheel Arm	1	26-17
	5K359	Tail Wheel Arm, Includes Hub	1	26-17A
6	5K405	Rear Wheel Lock (*Used only for travel without seeders*)	1	
7	7C414	Grease Fitting	1	
8	4C856	Hair Pin Cotter	2	
9	1C211	Lockwasher, 3/4"	4	
10	1C210	Nut, 3/4"	4	

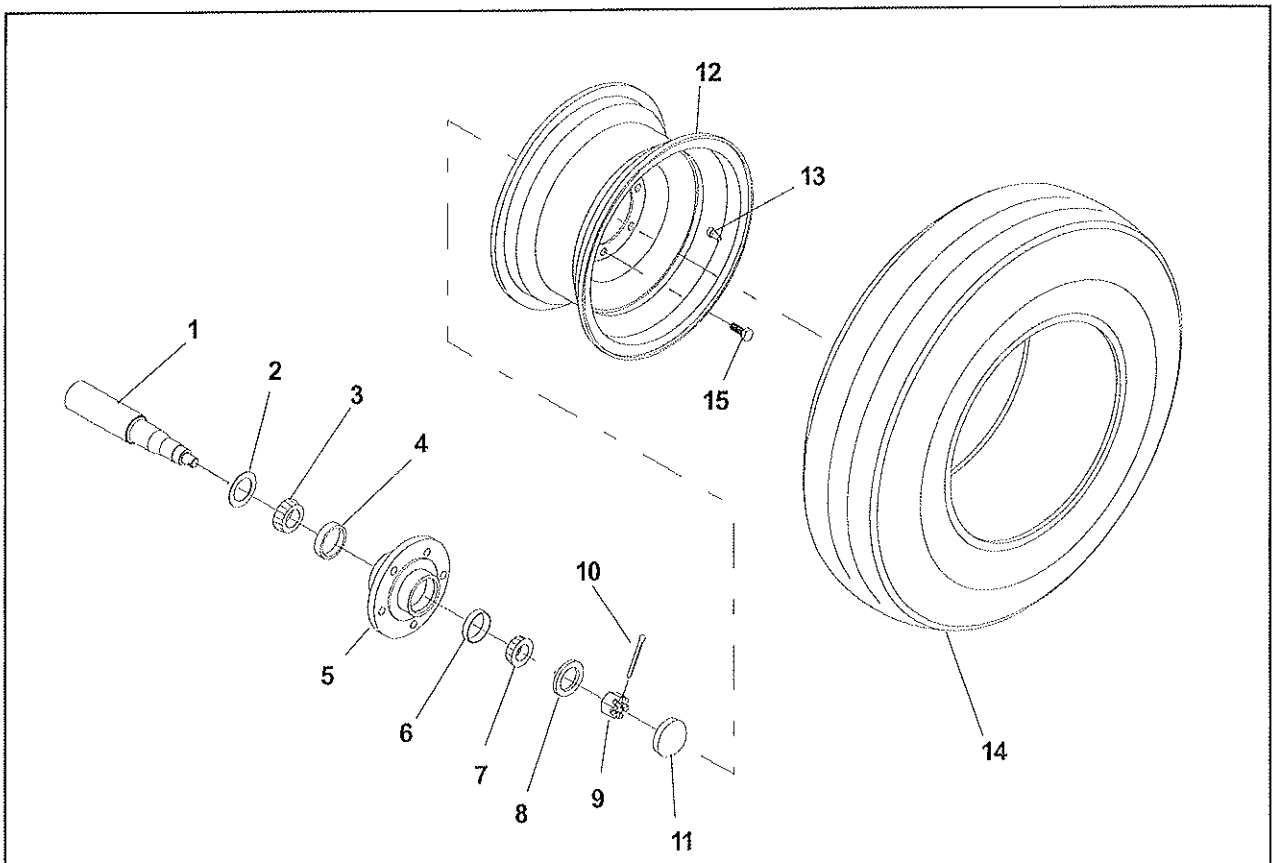


		DRAWBAR PULL ASSEMBLY		
Index No.	Part No.	Description	No. Required	Code No.
1	5K358	Back Main Frame	1	26-2
2	5K351	Drawbar Pull	1	22-8
3	9D509	Bolt, 3/4" x 6 1/2"	4	22-9
4	5K380	Top Plate	1	27-18
5	1C211	Lockwasher, 3/4"	4	
6	1C210	Hex Nut	4	



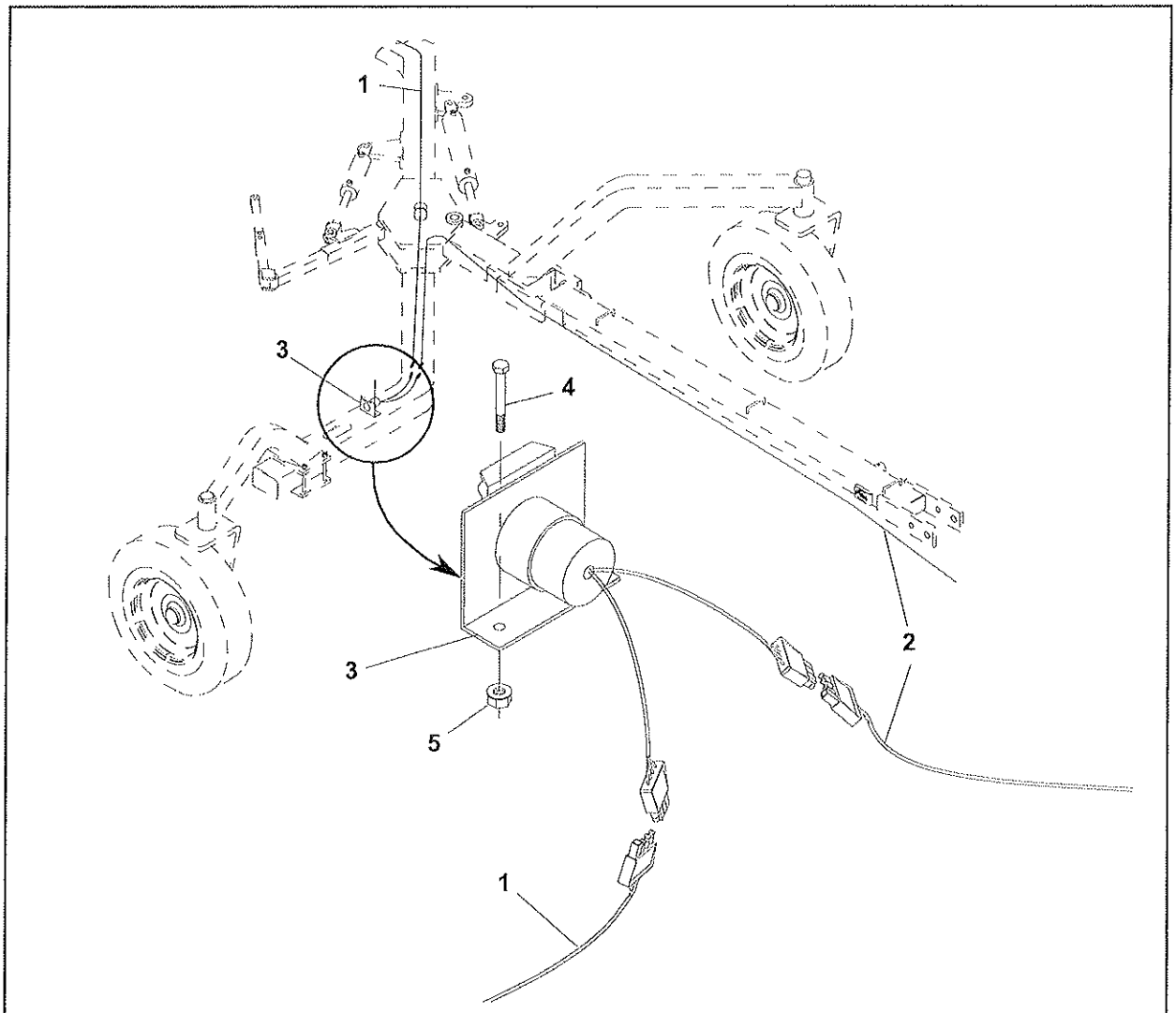
HYDRAULIC SYSTEM

Index No.	Part No.	Description	No. Required	Code No.
1	6J811	Hydraulic Cylinder, 3 1/2" x 20"	1	
2	5K440	Hydraulic Cylinder, 3" x 8"	1	
3	4K603	Adapter, 90°, 3/4-16 O-Ring x 3/4-16, 37°	4	
4	4K878	Male Tee, 3/4-16, 37°	2	28-1601
5	5K598	Male/Female Tee, 3/4-16, 37°	2	
6	4K602	Adapter, 3/4-16 O-Ring x 3/4-16, 37°	8	
7	4K882	Hydraulic Hose, 3/8" dia. x 34" Long	2	
8	5K596	Hydraulic Hose, 3/8" dia. x 174" Long	3	
9	4K887	Hydraulic Hose, 3/8" dia. x 85" Long	2	
10	4K615	Hydraulic Hose, 3/8" dia. x 196" Long	1	
11	5K597	Hydraulic Hose, 3/8" dia. x 252" Long	2	
12	4K912	Hydraulic Coupling (Male Tip)	4	
13	5K499	Hydraulic Coupling (Female Coupler)	4	
--	5K427	Grommet (See pg. 12)	2	28-19



WHEEL AND HUB ASSEMBLY

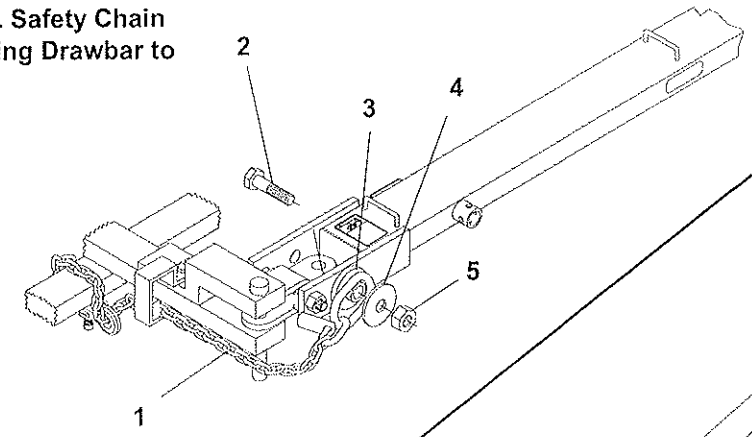
Index No.	Part No.	Description	No. Required	Code No.
1	5K428	Spindle	3	29-5102
2	5K429	Seal (#15190)	3	29-P602102
3	5C480	Bearing Cone (#LM48548)	3	29-P752310
4	5C479	Bearing Cup (#LM48510)	3	29-P702207
5	6D336	Wheel Hub	3	29-709300
6	5C914	Bearing Cup (#LM67010)	3	29-P702203
7	5C913	Bearing Cone (#LM67048)	3	29-P752311
8	5C651	Washer, 7/8"	3	29-P101223
9	4C839	Slotted Nutt, 7/8" Hex	3	29-P101224
10	1C278	Cotter Pin, 5/32" x 2"	3	29-P101222
11	6D337	Hub Cap	3	29-P502007
12	6D312	Wheel, 15 x 8, 6 Bolt	3	29-158
13	8J792	Valve Stem	3	29-P101225
14	8J791	Tire, 11L x 15-8 Ply	3	29-1115
15	5C100	Wheel Bolt	18	29-P101301



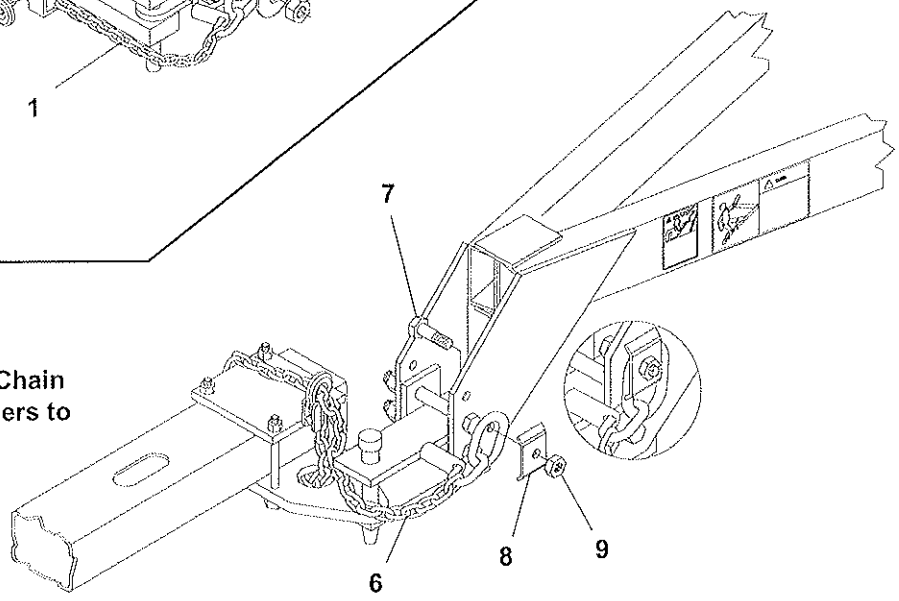
ELECTRICAL COMPONENTS

Index No.	Part No.	Description	No. Required	Code No.
1	5K465	40' Adapter Cable	1	
2	4K781	Ag. Harness, 20'	1	
3	4K826	Tandem Haul Adapter	1	
4	1C229	Capscrew, 1/4" x 3/4"	2	
5	6J150	Locknut, 1/4"	2	

20,200 LB. Safety Chain for attaching Drawbar to Tractor.



10,100 LB. Safety Chain for attaching Seeders to Hitch.



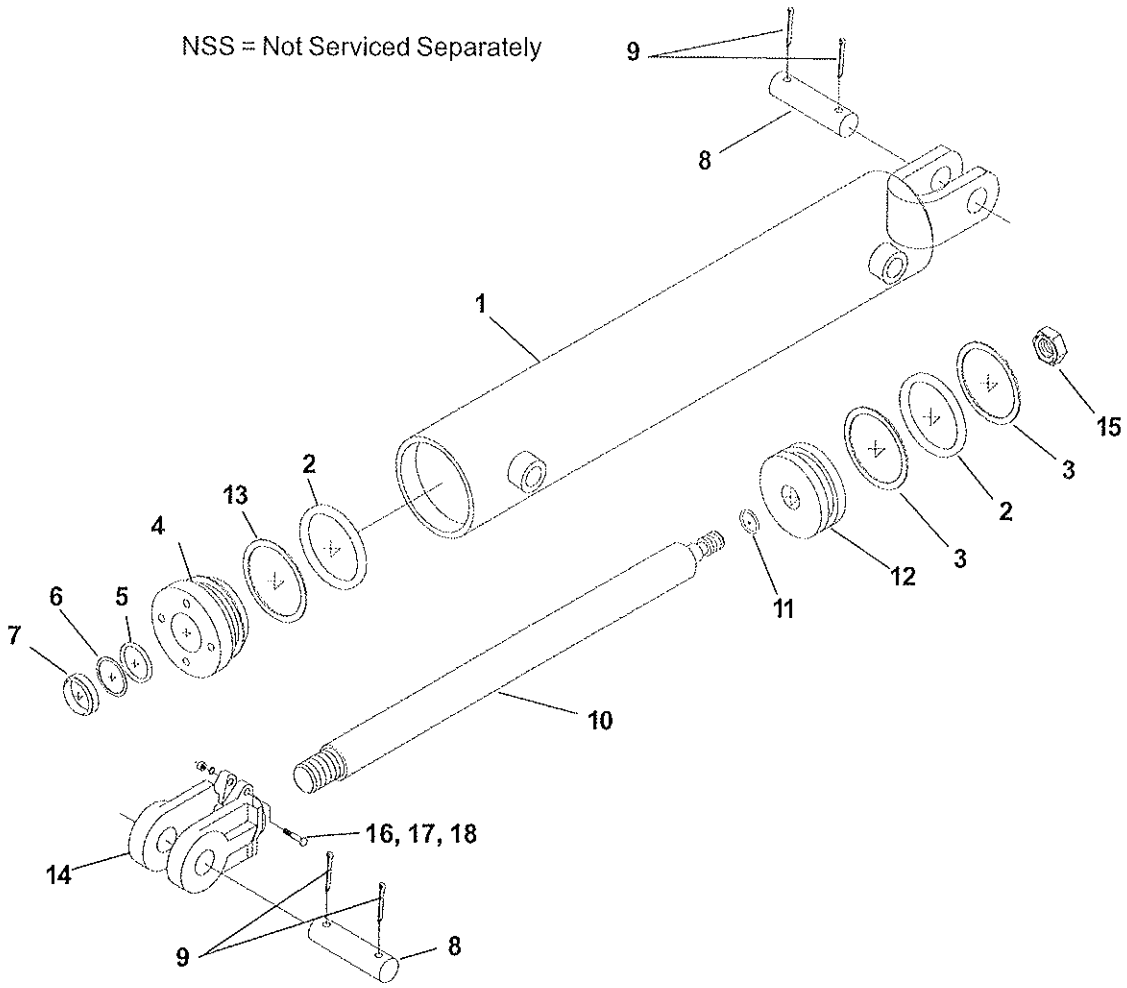
SAFETY CHAIN COMPONENTS (Optional)

Index No.	Part No.	Description	No. Required	Weight
1	1K732	Safety Chain, 20,200 lb.	1	10.35
2	1K788	Bolt, 1-8 NC x 3 3/4", gr.5	1	1.11
3	1K787	Spool	1	1.95
4	1K836	Washer	1	.95
5	6D306	Stover Nut, 1-8 NC Hex	1	.29
6	1K731	Safety Chain, 10,100 lb.	2	4.89
7	1D424	Capscrew, 3/4-10 NC x 2", gr. 5	2	.37
8	1K809	Clip	2	.36
9	6C729	Stover Nut, -3/4-10 NC Hex	2	.12

6J811 G Hydraulic Cylinder 3 1/2 x 20
Hydraulic Gear #3520-01 Painted Black
1-3/8" Dia. Rod, 30-1/4 Retracted, 50-1/4 Extended Length

Item	Part No.	Description	Qty.
1	7J689	Tube Assembly	1
*2	NSS	O Ring	2
*3	NSS	Back-Up Ring	2
4	1J958	Packing Gland	1
*5	NSS	O Ring	1
*6	NSS	Back Up Ring	1
*7	NSS	Rod Wiper	1
8	5J650	Cylinder Pin	2
9	6C468	Cotter Pin, 3/16" x 2"	4
10	7J688	Rod	1
*11	NSS	O Ring	1
12	1J959	Piston	1
*13	NSS	Back Up Ring	1
14	5J195	Rod End Clevis	1
15	1D218	Nut, 7/8-14 UNF	1
16	9D797	Capscrew, 5/16-18 x 2-1/4	1
17	1C385	Nut, 5/16-18 NC	1
18	1C362	Lockwasher, 5/16 med.)	1
*	1J961	Seal Kit (Items marked "*")	1

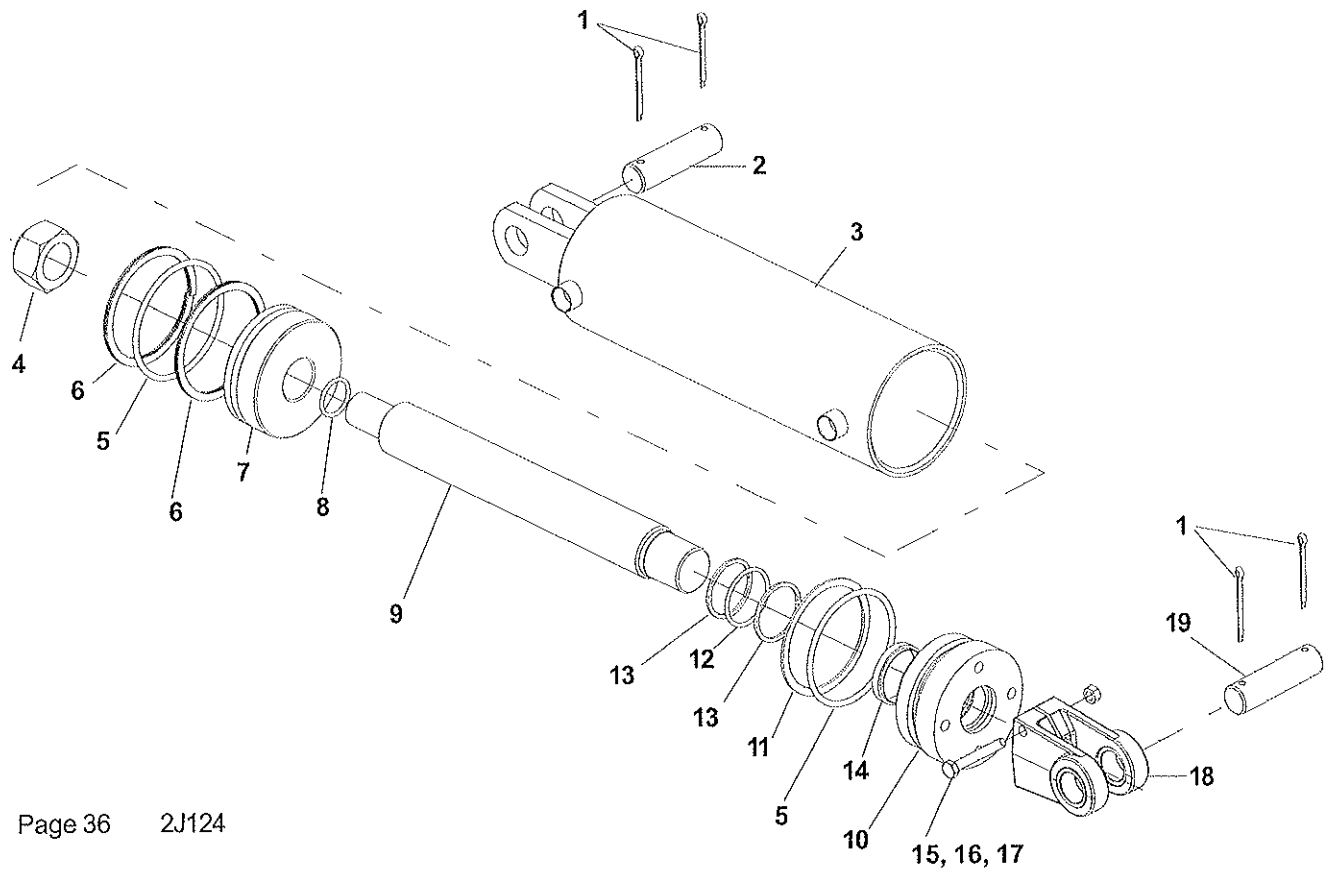
NSS = Not Serviced Separately



5K440G Hydraulic Cylinder, 3 x 8
Hydraulic Gear #3008SAE Painted Black
1 1/4" Rod Diameter; 18 1/4" Retracted, 26 1/4" Extended

Item	Part No.	Description	Qty.
1	6C468	Cotter Pin, 3/16 x 2"	4
2	5J650	Pin	1
3	5K836	Tube Assembly	1
4	6C750	Lock Nut, 7/8-14 UNF	1
*5	NSS	O-Ring	2
*6	NSS	Spiral Backup Ring	2
7	5K834	Piston	1
*8	NSS	Seal	1
9	5K835	Rod	1
10	5K837	Packing Gland	1
*11	NSS	Backup Ring, thk	1
*12	NSS	O-Ring	1
*13	NSS	Backup Ring	2
*14	NSS	Wiper	1
15	9D797	Capscrew, 5/16-18 NC x 2 1/4" Gr. 5	1
16	1C362	Lockwasher, 5/16 med.	1
17	1C385	Nut, 5/16-18 NC Reg. Hex.	1
18	5J195	Clevis	1
19	5K798	Pin	1
*	5K838	Seal Kit (Items marked "*")	

* - Not Serviced Separately



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Breakdown of hydraulic cylinder is a special insert section from book 2J124, pages 36, 36A and 75, and is located after page 18.