

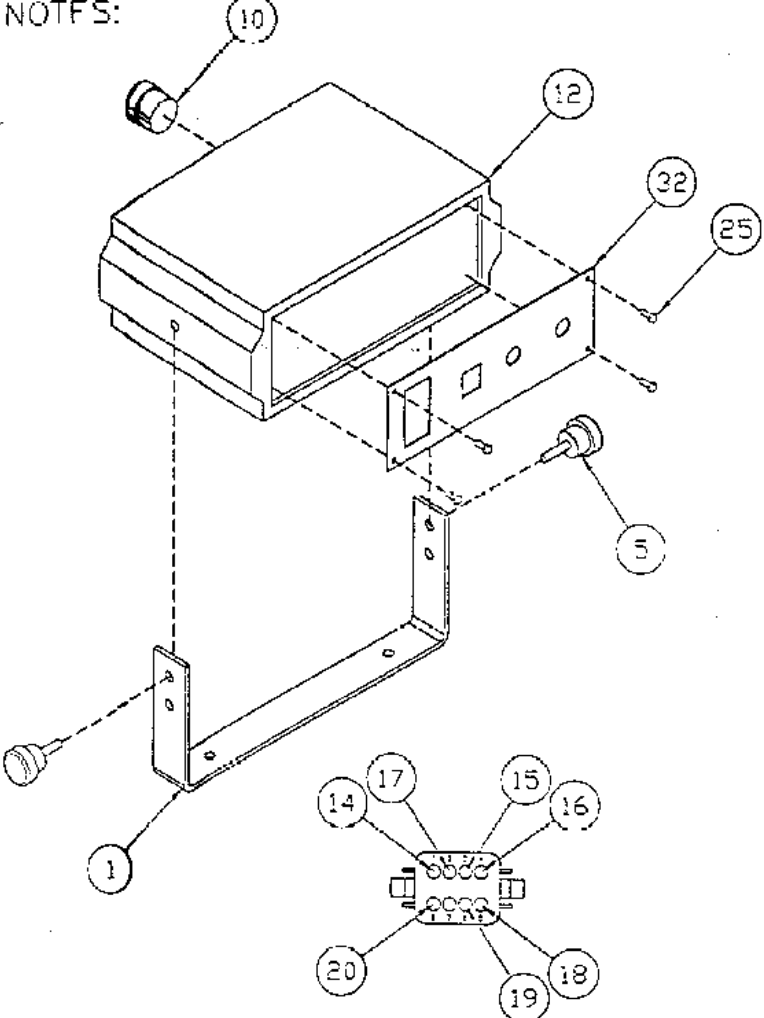
HIGHLINE MFG.
INC.

1997

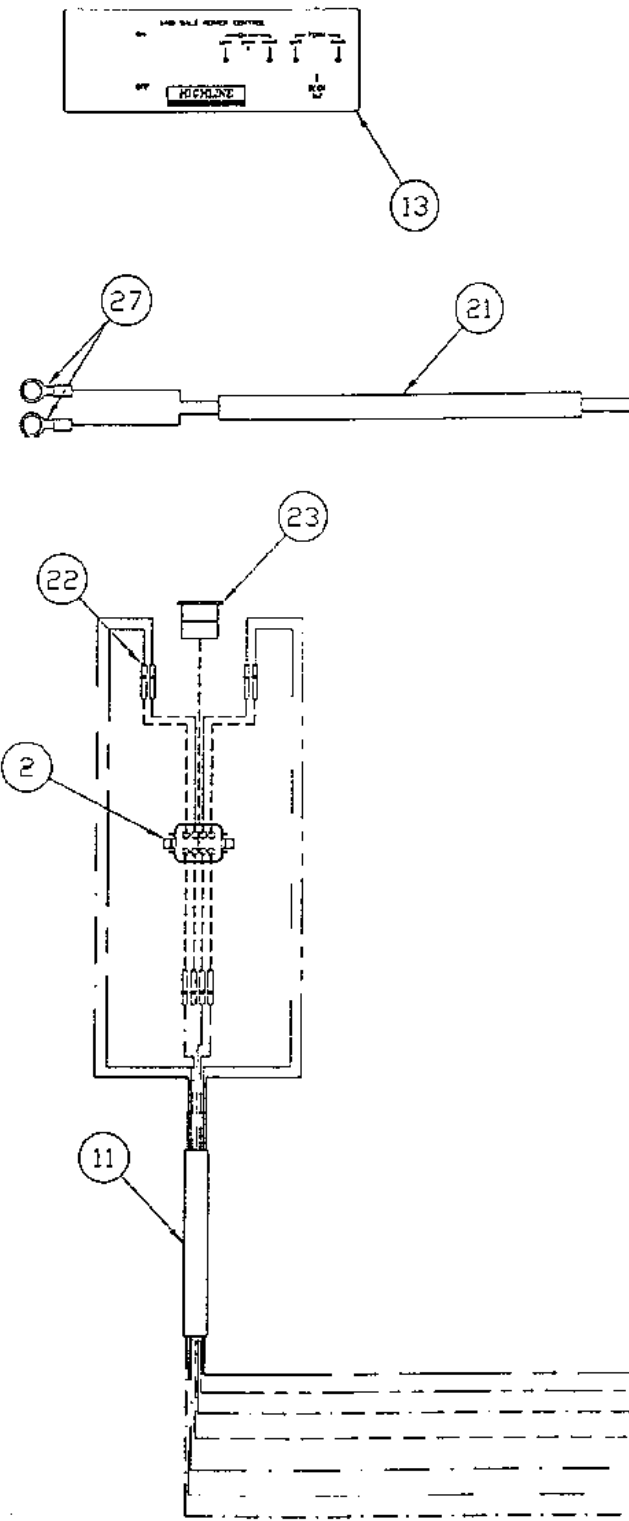
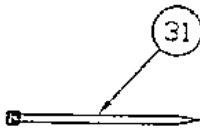
MODEL 1400

**Assembly-Operator
Parts Manual**

NOTES:



ORIGIN.



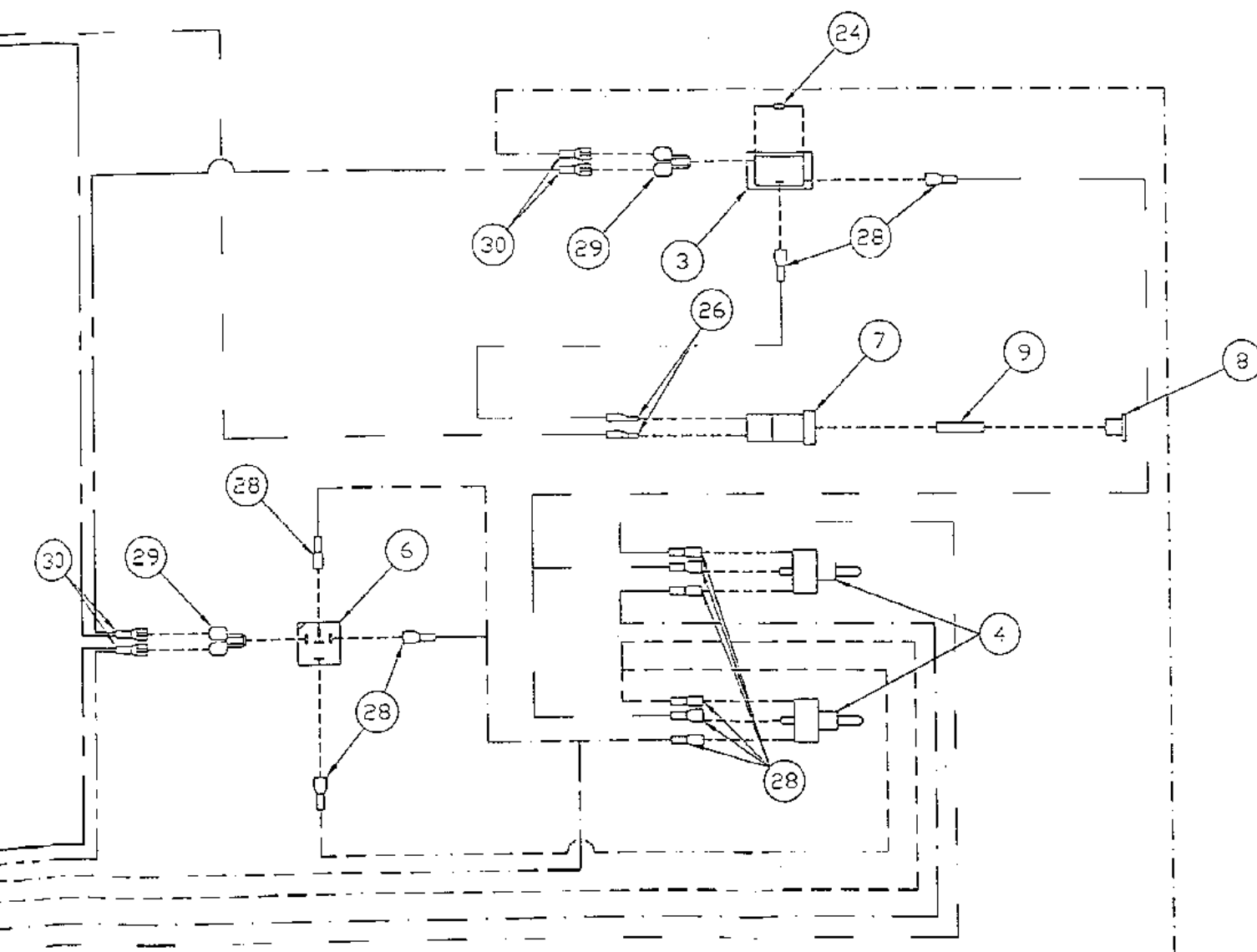
- BLACK WIRE (14)
- - - - - BROWN WIRE (20)
- - - - - GREEN WIRE (18)
- ORANGE WIRE (17)
- RED WIRE (16)
- - - - - WHITE WIRE (15)
- - - - - YELLOW WIRE (19)

LTR	DESCR

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The equipment shown is protected by patents.

Default Tolerances:
 1. LINEAR DIMS. $\pm .000$
 $\pm .005$
 $\pm .010$
 FRACTIONAL $\pm .005$
 $\pm .010$
 $\pm .015$
 2. ANGLES $\pm 1/2^\circ$
 3. CONCENTRICITY $\pm .005$
 4. WALL THICKNESS $\pm .005$
 5. DRILLING INTERNAL RADIUS $\pm .010$
 6. BREAK SHARP CORNERS
 DIMS ARE IN INCHES
 1" = 1" PROJECTION

**FOR PRODUCTION
USE**



REVISIONS			Engineering: SUT		Date: 21 NOV 97	Models: BM	
DESCRIPTION	DATE	CHANGED BY	Drawn By: RUB			Description: BOX, CONTROL	
			Page: 1 of 1	Size: A	MATL	HIGHLINE MFG INC.	Dwg No: 92125
			Scale: NTS				Rev: A

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Warranty

HIGHLINE Mfg. Inc. warrants its products to the original owner for a period of two years from date of purchase, subject to the following provisions:

- Warranty registration must be submitted to HIGHLINE Mfg. within 30 days of purchase of your Bale Mover.
 - 1st year Parts & Labor
 - 2nd year Parts Only
- All warranty service must be handled through an authorized HIGHLINE Mfg. dealer. At the time of requesting warranty service, the purchaser must present evidence of the delivery date of the equipment. The purchaser shall pay any premium for requested overtime, any charge for making service calls, and any charges incurred in transporting the equipment to and from the location of the warranty service. Freight costs associated with warranty repairs are not reimbursable.
- Any labor subject to warranty must be authorized by a HIGHLINE Mfg. Inc. Representative, before work is started.
- Machines used for rental, custom work, industrial or construction use will be warranted for a period of 30 days from date of purchase. (Parts and Labor)
- Warranty will be void if any component of this machine is altered or modified in any way, unless written permission is given by HIGHLINE Mfg. Inc.
- Warranty will be void if the maximum loading capacity of 14 – 5 foot bales or 30,800 lbs
- Warranty will be void if machine is used to transport anything else then the machine purpose.
- HIGHLINE Mfg. Inc. will not assume any responsibility for whatever damage may occur to equipment to which this machine may be attached.
- Warranty terms and conditions are subject to provincial and state legislation.
- Warranty is limited to the Purchase value of the equipment and can never exceed MSRP

Presidents Message

The 1400 Bale Mover, a proven name in the bale handling field is manufactured by **HIGHLINE Mfg Inc.** The 1400 Bale Mover was designed to work in the most difficult of bale handling situations. A little time and effort spent in proper maintenance will assure the performance and durability of your bale mover.

This operator manual has been prepared to provide information necessary for the safe and efficient operation of your bale mover. In it you will find safety procedures, maintenance routines and detailed part diagrams.

In order to maintain high standards, changes or improvements are made from time to time. **HIGHLINE Mfg Inc.** reserves the right to make those changes and add improvements when practical to do so without incurring any obligation to make such changes and improvements on machines sold previously.

Should the need arise, this manual will assist you in acquiring replacement parts. Should your dealer not have the parts you require in stock, the dealer will be happy to order them for you. If you should find that you require information not covered in this manual, feel free to consult **HIGHLINE Mfg Inc.** or your local dealer.

HIGHLINE Mfg Inc. thanks and congratulates you for selecting a 1400 Bale Mover as the machine for your bale handling choice.



Raymond Bussiere
President

Safety Precautions

CAREFUL OPERATION IS THE BEST INSURANCE AGAINST AN ACCIDENT

- Always disengage PTO and hydraulic motors before dismounting tractor.
- Keep yourself and others clear of rotating parts to prevent injury.
- Never allow anyone to stand near the bale mover while loading or unloading bales.
- Never attempt to manually remove bales from rails while hydraulic motors are engaged. Disconnect hydraulic motors before cleaning the bale mover.
- Remove transport locks before lowering forks. To remove transport locks, raise forks to slacken transport chain and remove transport pin. **DO NOT** lower forks when transport locks are in position otherwise sever damage **WILL** occur.
- Relieve pressure in hydraulic lines before disconnecting lines or performing maintenance on the hydraulic system.

1.0 Pre-delivery & Installation Instructions

1.1 General Description of 1400 Bale Mover

The 1400 Bale Mover is 15' wide and a length of 42'. One set of hydraulic lines is required for engaging hydraulic motors, and one set of hydraulic lines is required for operation of forks and deck cylinder. The 1400 Bale Mover may either load or unload bales for easy transport and organization of bales.

1.2 Pre-Delivery Check List

The following is a list of parts required if the 1400 Bale Mover has not been assembled prior to delivery. If any parts are not included contact your authorized Highline dealer or **HIGHLINE Mfg Inc.**

Quantity	Description	Part No.
2	PIN,HITCH,SUBFRAME	40003
1	SUBFRAME,REAR	40006
4	PIN,ARM,PIVOT	40008
2	PIN,ARM,SIDE,PIVOT	40010
1	ARM,PIVOT,LEFT	40011
1	ARM,PIVOT,RIGHT	40012
1	ARM,SLIDE,PIVOT,LEFT	40017
1	ARM,SLIDE,PIVOT,RIGHT	40018
2	PIN,LOCK,SAFTEY	40019
1	FORK,RIGHT	40022
1	FORK,RIGHT,1/4 TURN	40023
4	POCKET,BEAM,WALKING	40024
1	HITCH,A-FRAME,LEFT	40062
1	HITCH,A-FRAME,RIGHT	40063
1	SUBFRAME,FRONT	40064
1	SUBFRAME,MIDDLE	40065
1	CROSSMEMBER,HITCH	40071
1	TUBE,DECK,CYLINDER	40072
1	FORK,LEFT,1/4 TURN	40084
1	FORK,LEFT	40086
1	RAIL,OUTSIDE,LEFT	40091
1	RAIL,INSIDE,LEFT	40092
1	SUBFRAME,MAIN,LEFT	40098
1	SUBFRAME,MAIN,RIGHT	40099
1	RAIL,INSIDE,RIGHT	40100
1	RAIL,OUTSIDE,RIGHT	40101
1	CROSSMEMBER,SIGN,SMV	40105
2	BEAM,WALKING,MAIN	40106
4	BEAM,SUPPORT,FRAME	40107

Quantity	Description	Part No.
2	SLIDE,MOUNT,MOTOR,LEFT	40115
2	SLIDE,MOUNT,MOTOR,RIGHT	40116
4	PIN,SPROCKET,REAR	40121
8	ASSEMBLY,WHEEL,COMPLETE	40122
1	HITCH,TONGUE,DOUBLE	45060
8	HUB,8BOLT,5000LB,EM5500	30102
4	PIN,ROLL,3/16 X 1 1/2	30197
1	HOLDER,HOSE,HYDRAULIC,1/2	30206
12	ZERK,GREASE,1/4-28,GF641	30207
2	CHAIN,TRANSPORT,BM	30217
8	C2062H X 304PI CHAIN	91508
2	C2062 CONNECTING LINK	91510
2	C2062 OFFSET LINK	91511
2	1/8 X 2 1/2 HAIRPIN	91608
4	SPROCKET,REAR,BM,C2062C7	92023
4	BUSHING,BRASS,SS3240-24	92024
1	SLOW MOVING VEHICLE SIGN	92028
2	RUBBER BUMPER	92061
1	5000LB X 15" SIDEWIND	92095
1	BRACKET,SIGN,SMV	E4710
1	DIVIDER,BALE	E4712
1	1400 BM CONTROL BOX-1994	92125
2	1 X 7.5 UNC GR5 PLATED	B5C16120P
8	3/4 X 3 UNC GR5 PLATED	B5C1248P
10	5/8 X 2 UNC GR5 PLATED	B5C1032P
16	5/8 X 1 1/2 UNC GR5 PLTD,	B5C1024P
4	1/2 X 1 3/4 UNC GR5 PLTD	B5C0828P
292	1/2 X 1 1/2 UNC GR5 PLTD.	B5C0824P
2	1/4 X 3/4 UNC GR5 PLATED	B5C0412P
2	1/4 X 2 UNC GR 5 PLTD.	B5C0432P
2	1" UNC LOCKNUT	LNC16
8	1"-5 RH ACME NUT	NRHACME16
8	3/4" UNC LOCKNUT	LNC12
26	5/8" UNC LOCKNUT	LNC10
301	1/2" UNC LOCKNUT	LNC08
6	5/16" UNC LOCKNUT	LNC05
4	1/4" UNC LOCKNUT	LNC04
4	1" LOCKWASHER PLATED	LW16P
1	1/2" FLATWASHER	FW08
6	5/16 FLATWASHER PLTD.	FW05P
6	1/4" X 2 1/2" COTTERPIN	CP0440

2.0 Operating Instructions

2.1 Pre-start instructions

Transport chains need to be removed before operation of the forks. To remove transport chains, raise forks slightly and remove transport pins. DO NOT lower forks when transport chains are in position otherwise severe damage WILL occur.

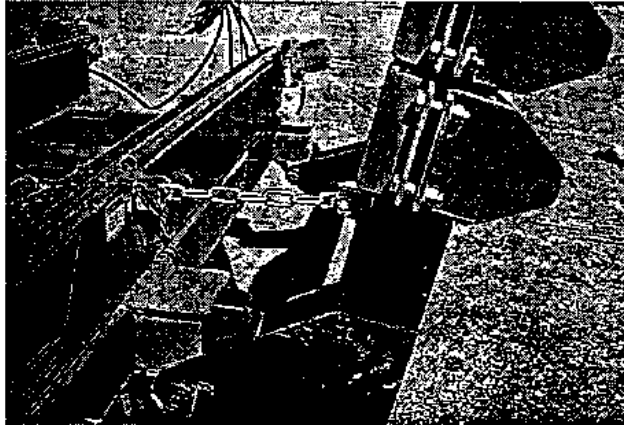


Figure 1. Locks in Transport Position

2.3 Transporting Instructions

To ensure safe transport of the 1400 Bale Mover, forks should be in the transport position with the transport chains in place. To put transport chains in place, raise the forks until the transport pin can be put in place safely. Lower forks to take the slack up in the transport chains.

2.4 Bale Size Adjustment

The bale size is adjustable through the fork adjusting plate. By moving the forks (Figure 2) to adjust for the correct size of bale.

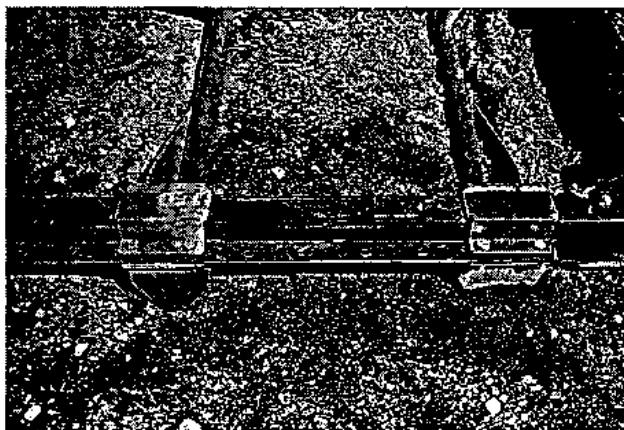


Figure 2. Fork Adjusting

2.5 Field Instructions

For proper operation, the 1400 Bale Mover should run at a field speed of 3-4 mph (4.8-6.5 km/h). When picking bales, a full stop is not required. Bales are picked and placed on the bed continuously by lifting the bale into position and moving the preceding bales back to fit the new bale on.

3.0 Maintenance Instructions

To ensure long operating life of your 1400 Bale Mover, follow this maintenance procedure.

- Periodically check tire air pressure to guarantee equal tire pressure. The operating tire pressure should be 90 psi
- Check all bolts for tightness periodically.
- Check chain tightner. The chain should appear to be 2 inches off the bottom of the rail
- Grease the following points as described.

3.1 Grease Locations

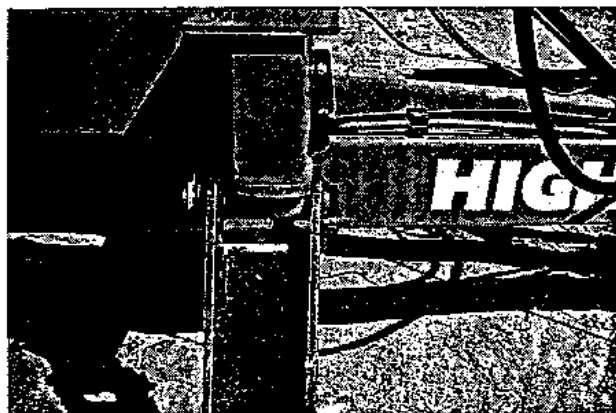


Figure 3. Pivot Arm Grease Location

Grease No	Description	Frequency
1	Arm, Pivot, Left	Daily
2	Arm, Pivot, Right	Daily

2

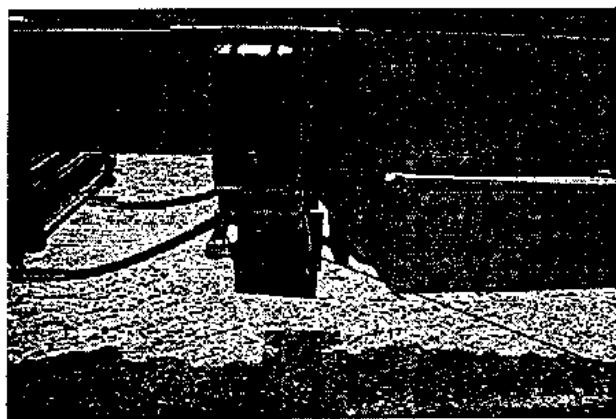


Figure 4. Pivot Slide Arm Grease Location

Grease No	Description	Frequency
3	Arm, Slide, Pivot, Left	Daily
4	Arm, Slide, Pivot, Right	Daily

4

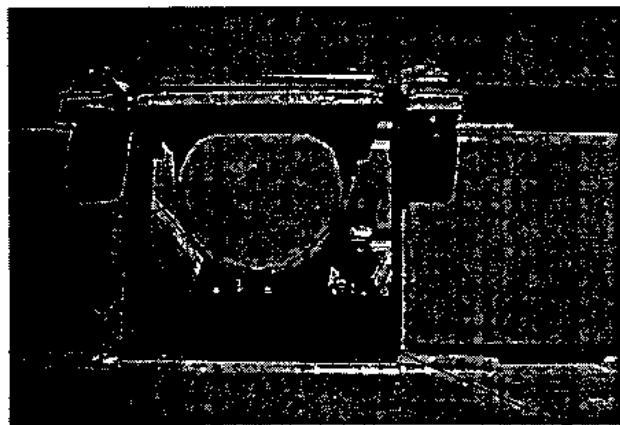


Figure 5. Oscillating Tandem Grease Location

Grease No	Description	Frequency
5	Pocket, Beam Walking, Left, Outside	Daily
6	Pocket, Beam Walking, Left, Inside	Daily
7	Pocket, Beam Walking, Right, Inside	Daily
8	Pocket, Beam Walking, Right, Outside	Daily

8

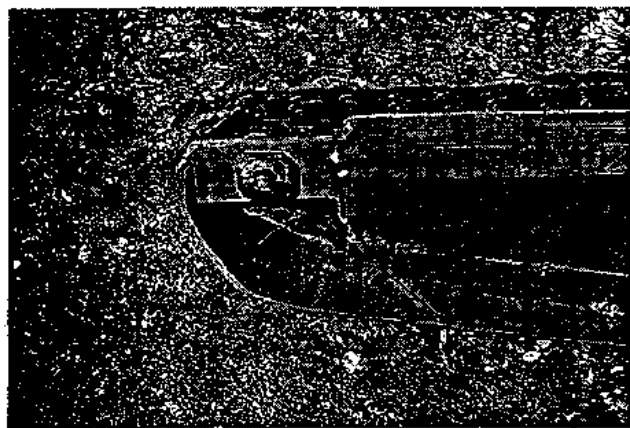


Figure 6. Rear Sprocket Pin

Grease No	Description	Frequency
9	Pin, Sprocket, Rear, Left, Outside	Weekly
10	Pin, Sprocket, Rear, Left, Inside	Weekly
11	Pin, Sprocket, Rear, Right, Inside	Weekly
12	Pin, Sprocket, Rear, Right, Outside	Weekly

12

Note: Wheel bearings should be repacked yearly.

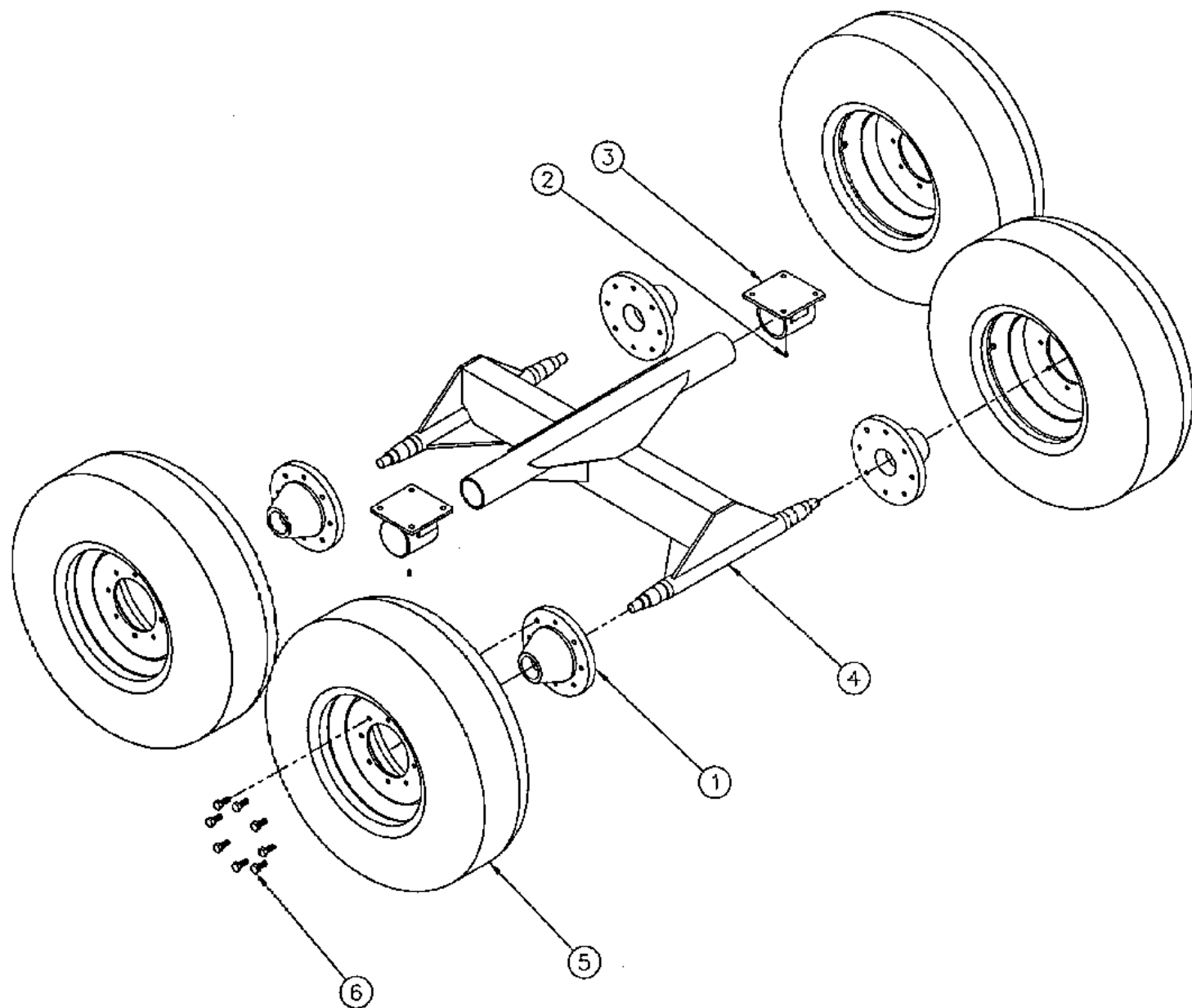
4.0 Parts Information

4.1 Tandem

Item	Part No.	Description	Quantity
1	30102	Hub, 8 Bolt, 5000 lbs, Complete	8
2	30207	Zerk, Grease, 1/4-28	2
3	40024	Pocket, Beam Walking	4
4	40106	Beam, Walking, Main	2
5	40122	Assembly, Wheel, Complete	8
6	91061	Bolt, Wheel, 9/16"	64

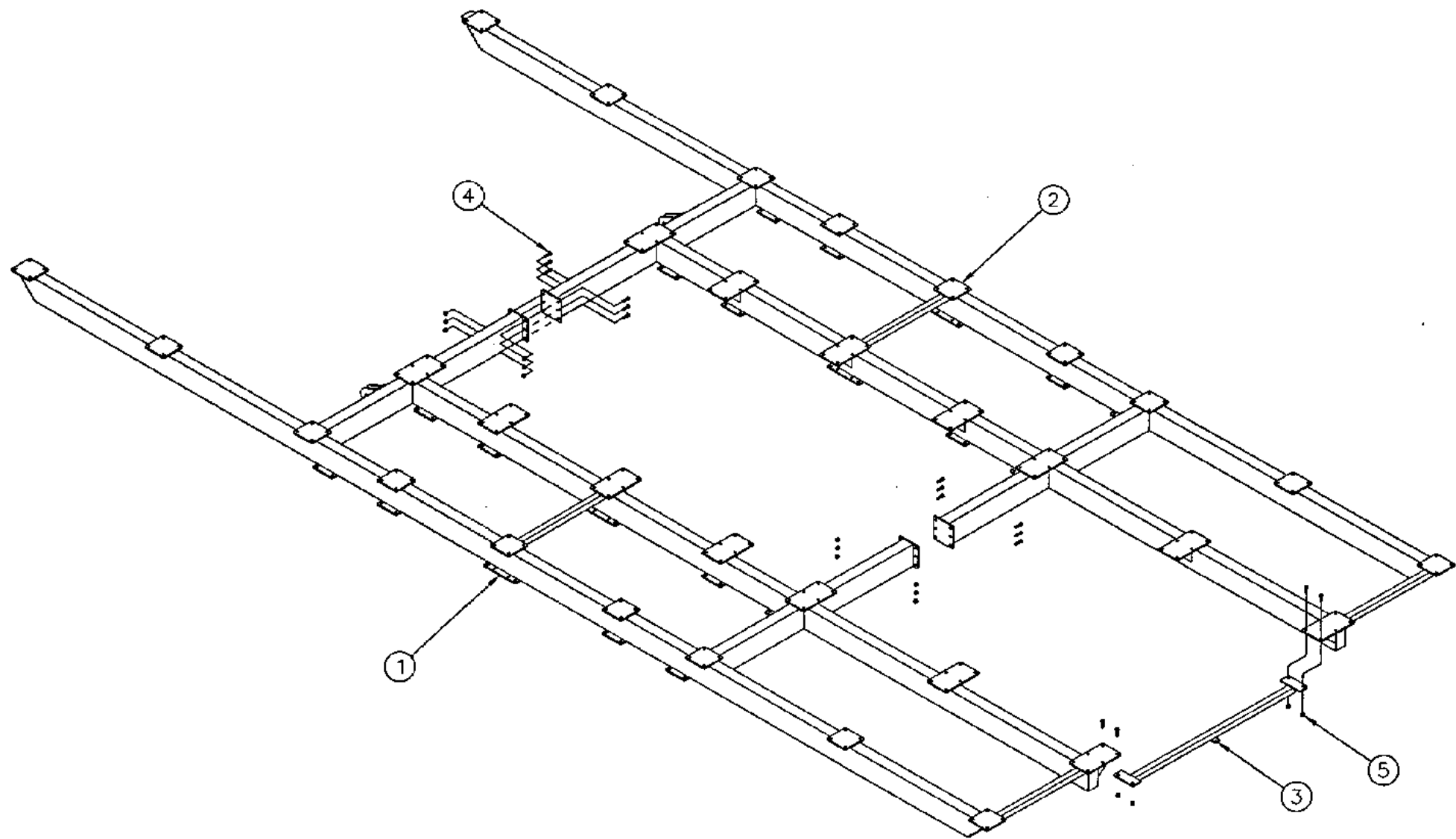
Part No.	Description
30100	Tire, 11L-15FI, 12 Ply
30104	Rim, 15 x 8 x 8, 1.5 Off, 6000#

complete P/N 40122



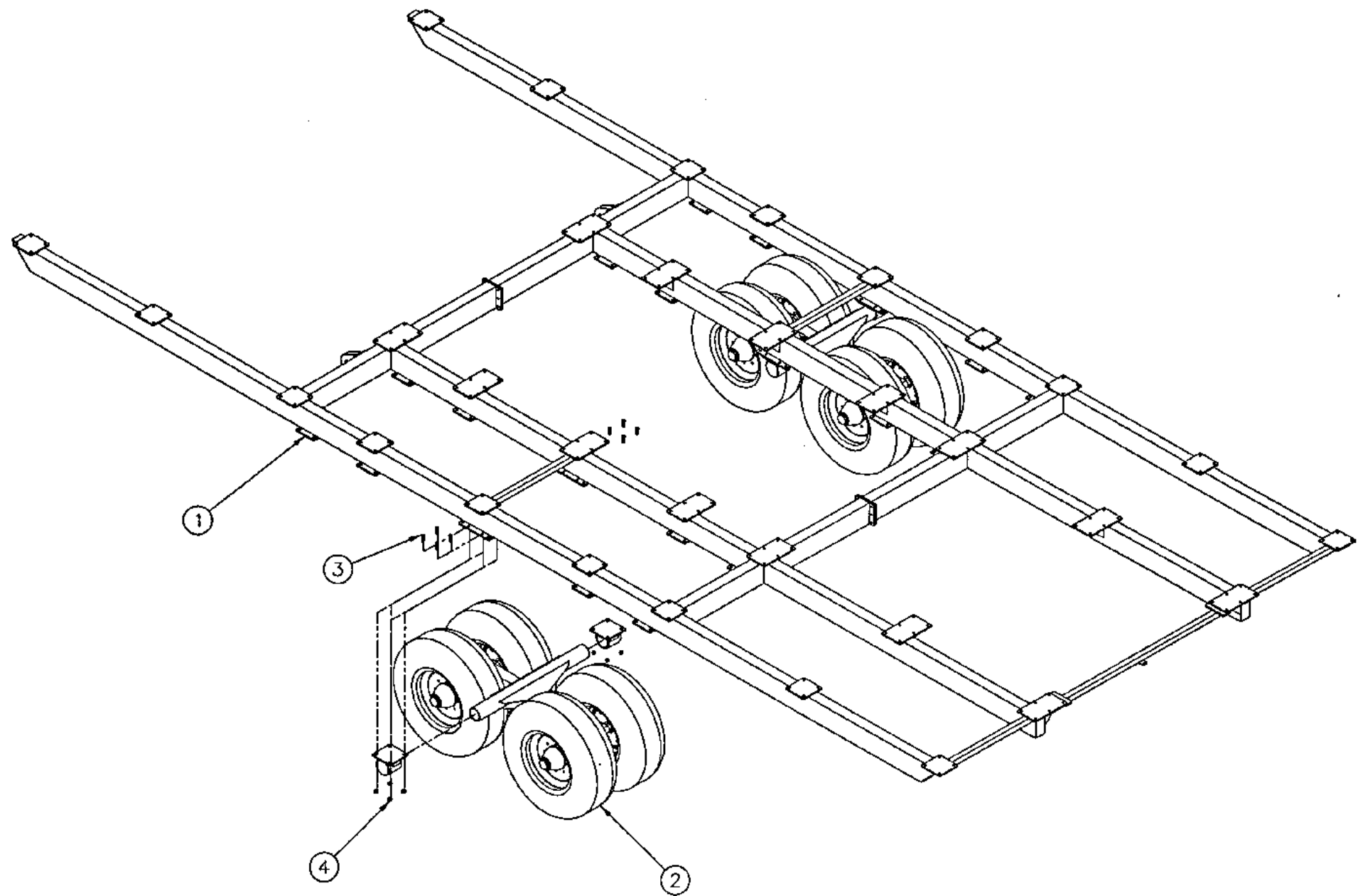
4.2 Subframe

Item	Part No.	Description	Quantity
1	40098	Subframe, Main, Left	1
2	40099	Subframe, Main, Right	1
3	40105	Crossmember, Sign, Slow Moving	1
4	B5C0824P	Bolt, 1/2" x 1 1/2", Pltd.	16
5	LNC08	Nut, Nylock, 1/2"	16



4.3 Tandem and Subframe

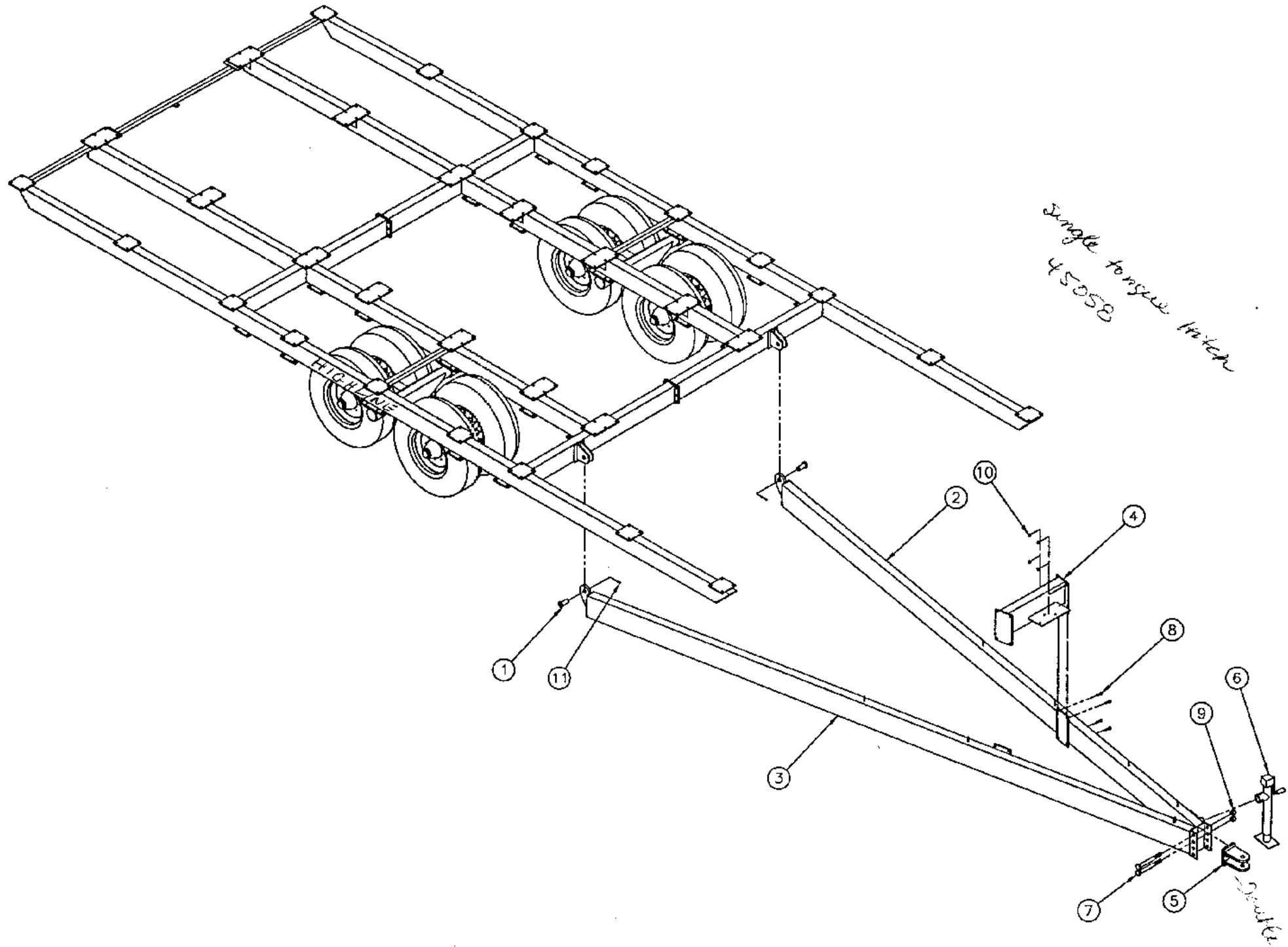
Item	Part No.	Description	Quantity
1		Assembled Subframes	1
2		Assembled Tandems	2
3	B5C0824P	Bolt, 1/2" x 1 1/2", Pltd.	16
4	LNC08	Nut, Nylock, 1/2"	16



4.4 Hitch

Item	Part No.	Description	Quantity
1	40003	Pin, Hitch, Subframe	2
2	40062	Hitch, A-Frame, Left	1
3	40063	Hitch, A-Frame, Right	1
4	40071	Crossmember, Hitch	1
5	45060	Hitch, Tongue, Double	1
6	92095	Jack, Sidewind, 5000 lbs x 15"	1
7	B5C16120P	Bolt, 1" x 7 1/2", Pltd	2
8	B5C1032P	Bolt, 5/8" x 2", Pltd.	8
9	LNC16	Nut, Nylock, 1"	2
10	LNC10	Nut, Nylock, 5/8"	8
11	CP440	Cotterpin, 1/4" x 2 1/2"	2

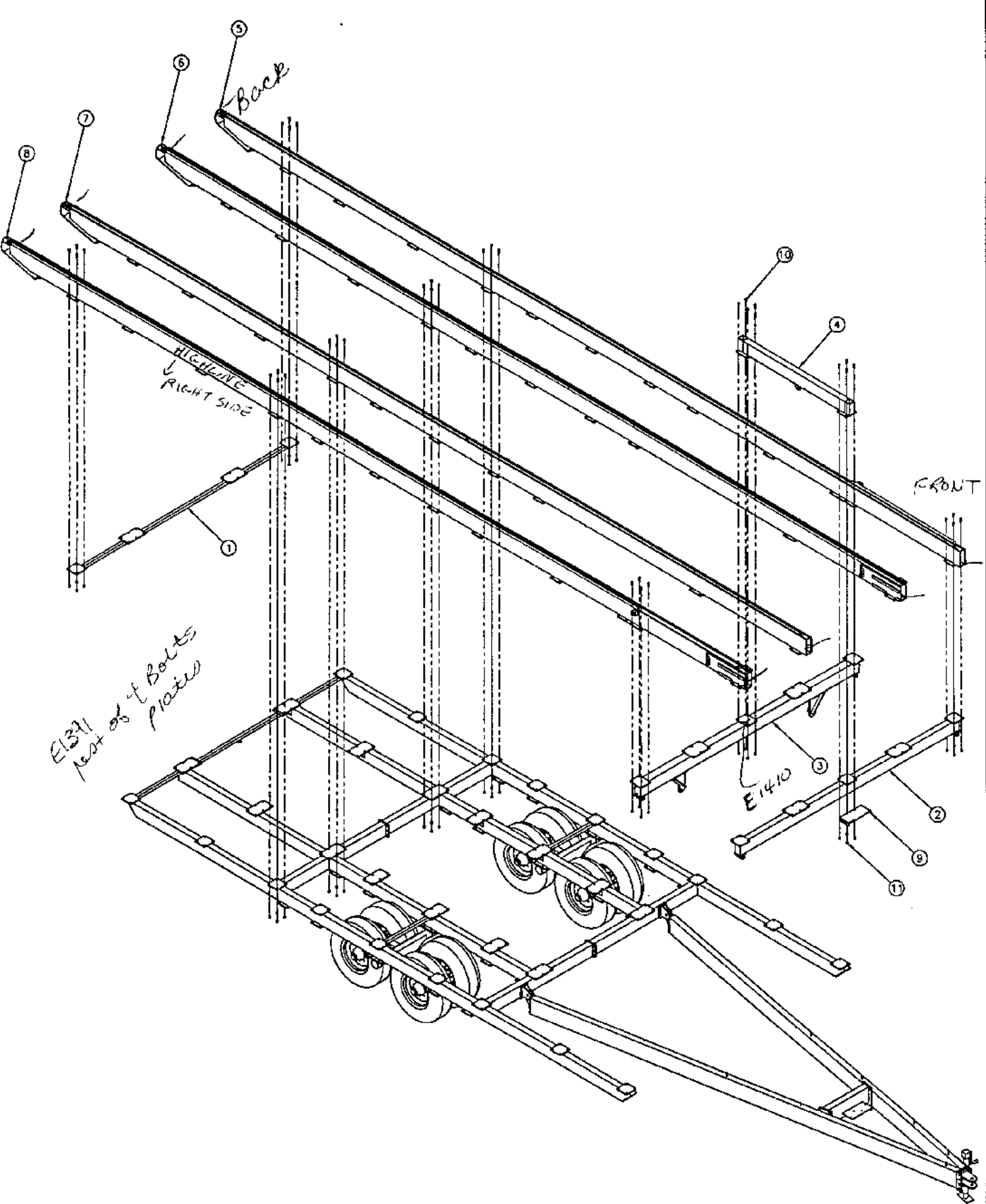
NOTE: Place hitch crossmember in place leaving bolts loose.
Insert double tongue hitch and tighten making sure angles are flush.



4.5 Rail and Crossmember Subframe

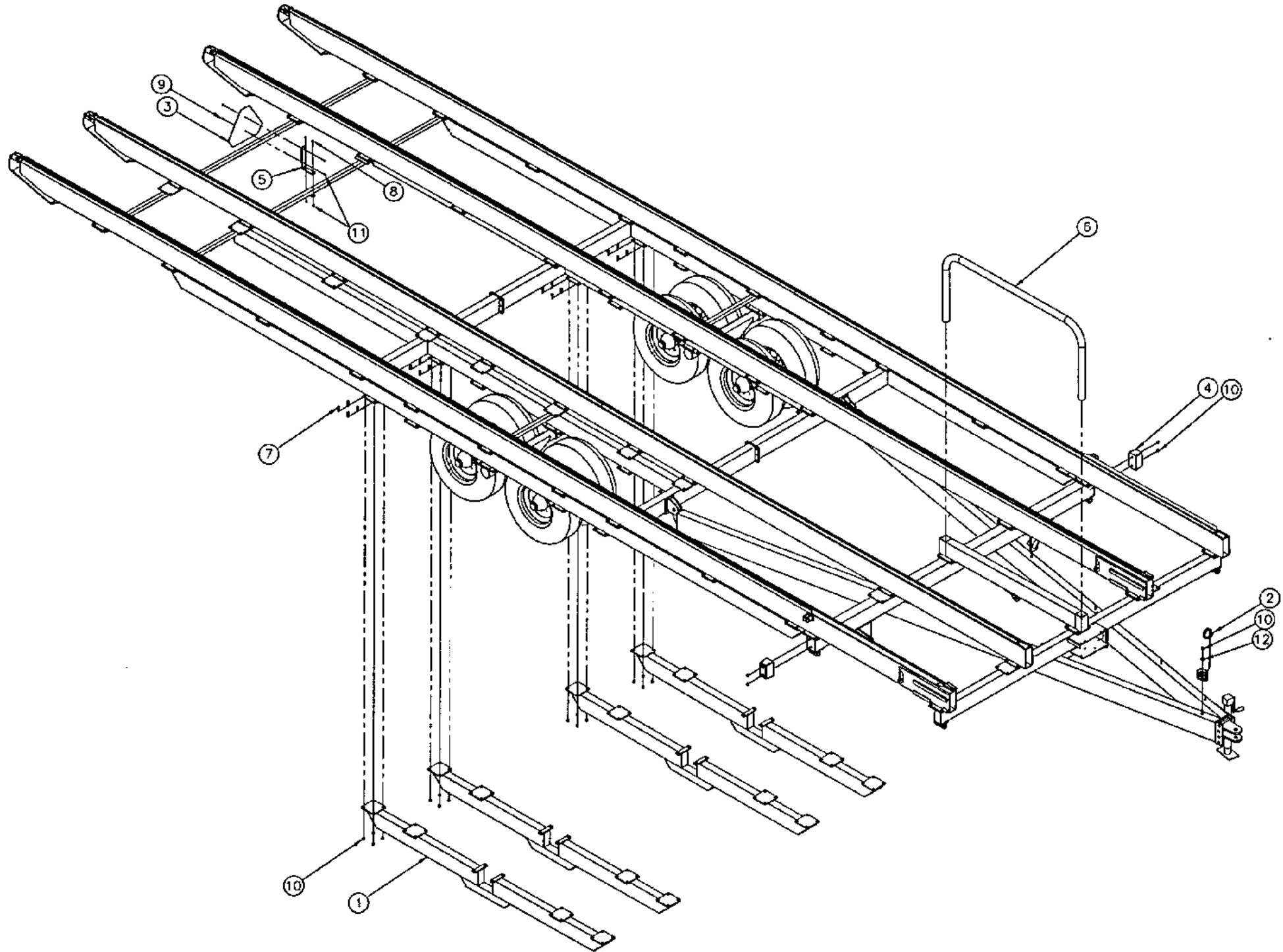
Item	Part No.	Description	Quantity
1	40006	Subframe, Rear	1
2	40064	Subframe, Front	1
3	40065	Subframe, Middle	1
4	40072	Tube, Deck, Cylinder	1
5	40091	Rail, Outside, Left	1
6	40092	Rail, Inside, Left	1
7	40100	Rail, Inside, Right	1
8	40101	Rail, Outside, Right	1
9	E4740	Guard, Support, Hydraulic	0
10	B5C0824P	Bolt, 1/2" x 1 1/2", Pltd.	180
11	LNC08	Nut, Nylock, 1/2"	180

Note: Install all rails on subframe leaving bolts loose.
 Install front crossmembers leaving bolts loose.
 Install cylinder deck tube leaving bolts loose.
 Install deck cylinder in the fully closed position between the hitch and deck tube.
 Lift hitch until front of the bale mover is fully supported then tighten all bolts.



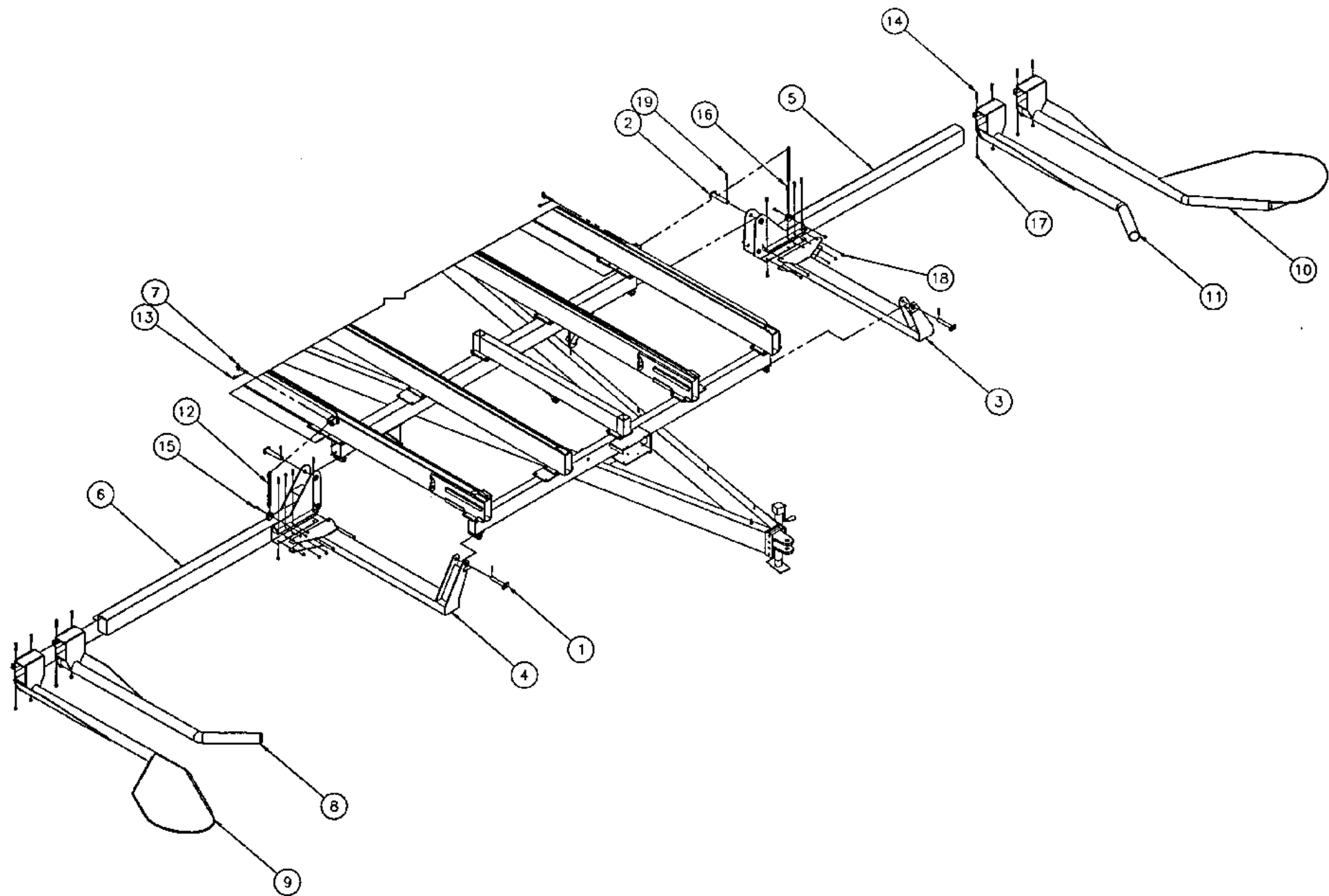
4.6 Subframe Supports

Item	Part No.	Description	Quantity
1	40107	Beam, Support, Frame	4
2	30206	Holder, Hose, Hydraulic, 1/2"	1
3	92028	Sign, Vehicle, Moving, Slow	1
4	92061	Bumper, Rubber	2
5	E4710	Bracket, Sign, SMV	1
6	E4712	Divider, Bale	1
7	B5C0824P	Bolt, 1/2" x 1 1/2", Pltd.	20
8	B5C0432P	Bolt, 1/4" x 2", Pltd.	2
9	B5C0412P	Bolt, 1/4" x 3/4", Pltd.	2
10	LNC08	Nut, Nylock, 1/2"	25
11	LNC04	Nut, Nylock, 1/4"	4
12	FW08	Washer, Flat, 1/2", Pltd	1



4.7 Forks

Item	Part No.	Description	Quantity
1	40008	Pin, Arm, Pivot	4
2	40010	Pin, Arm, Side, Pivot	2
3	40011	Arm, Pivot, Left	1
4	40012	Arm, Pivot, Right	1
5	40017	Arm, Slide, Pivot, Left	1
6	40018	Arm, Slide, Pivot, Right	1
7	40019	Pin, Lock, Safety	2
8	40022	Fork, Right	1
9	40023	Fork, Right, 1/4 Turn	1
10	40084	Fork, Left, 1/4 Turn	1
11	40086	Fork, Left	1
12	30217	Chain, Transport, Bale Mover	2
13	91608	Hairpin, 1/8" x 2 1/2"	2
14	BFC1248P	Bolt, 3/4" x 3", Pltd.	8
15	B5C1032P	Bolt, 5/8" x 2", Pltd.	2
16	B5C1024P	Bolt, 5/8" x 1 1/2", Pltd	16
17	LNC12	Nut, Nylock, 3/4"	8
18	LNC10	Nut, Nylock, 5/8"	18
19	CP0440	Cotterpin, 1/4" x 2 1/2"	6

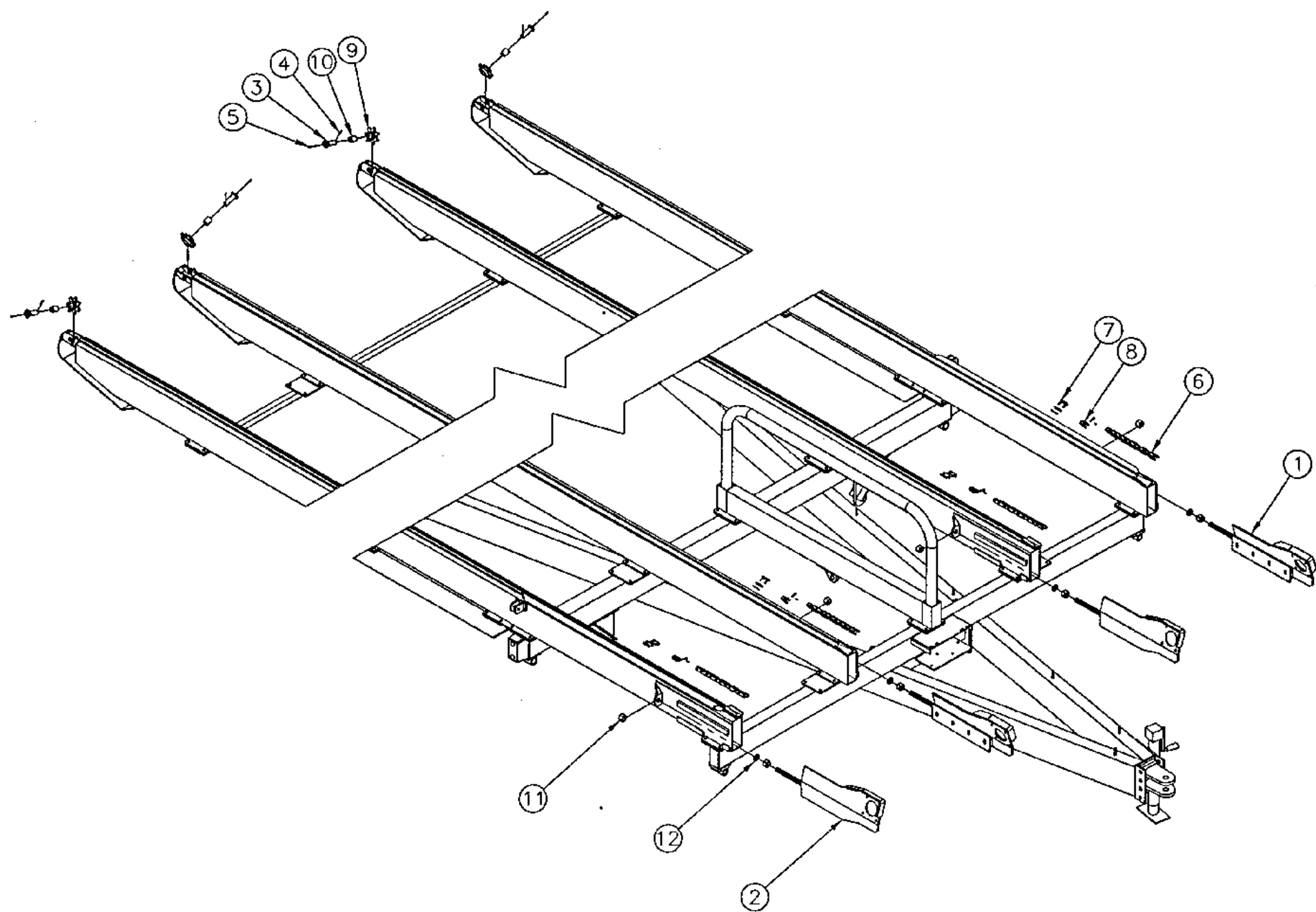


4.8 Chain Tightner and Chain

Item	Part No.	Description	Quantity
1	40115	Slide, Mount, Motor, Left	2
2	40116	Slide, Mount, Motor, Right	2
3	40121	Pin, Sprocket, Rear	4
4	30197	Pin, Roll, 3/16" x 1 1/2"	4
5	30207	Zerk, Grease, 1/4"-28	4
6	91508	Chain, C2062H x 304PI	8
7	91510	Link, Connecting, C2062	4
8	91511	Link, Offset, C2062	4
9	92023	Sprocket, Rear	4
10	92024	Bushing, Brass	4
11	NRHACME16	Nut, Acme, 1" - 5 RH	8
12	LW16P	Washer, Lock, 1", Pltd.	4

Part No.	Description
	Chain, C2062H x 304PI, per/foot

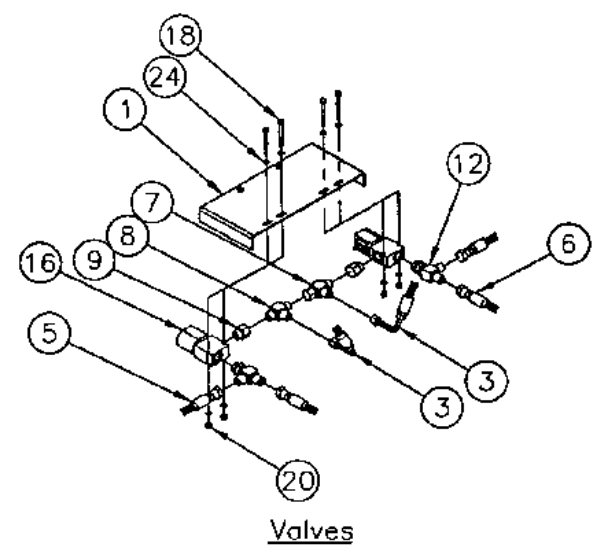
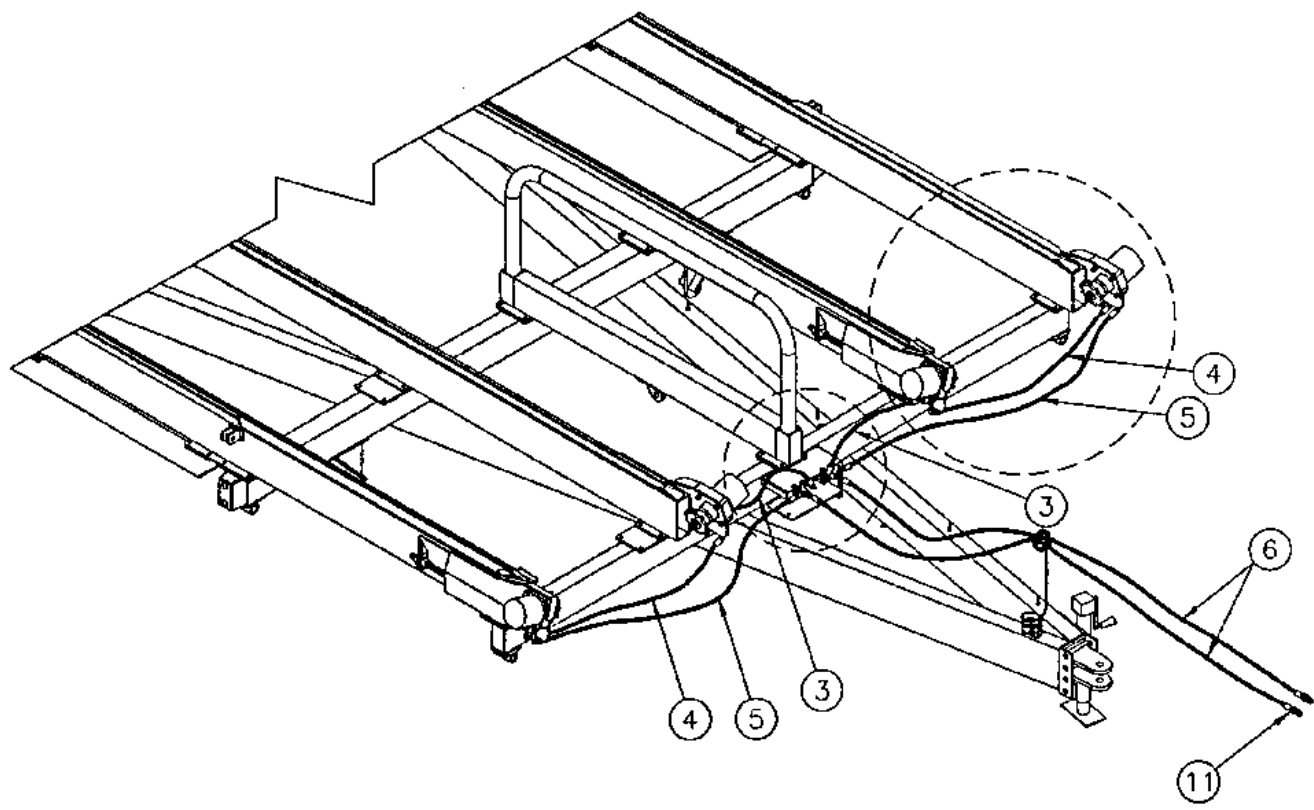
Note: Install inside motor hydraulic fittings before installing chain and chain tightners.
 The motors have to be loosened so that the fittings can be turned into place.
 The fittings go in the back port of the motors.
 Chain is fed from the back of the machine.
 This is accomplished by feeding a piece of wire from the front through the tube and pulling the chain through.
 This can be accomplished by one person, but two people would make the operation easier.



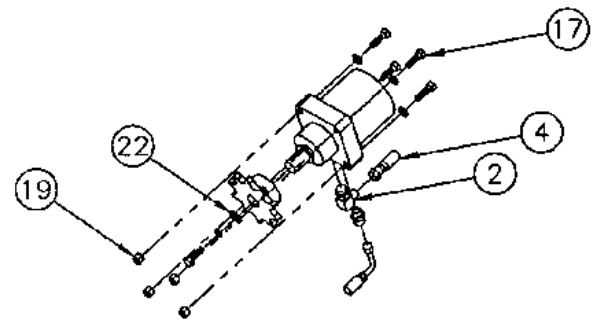
5.0 Hydraulics

5.1 Motor Hydraulics

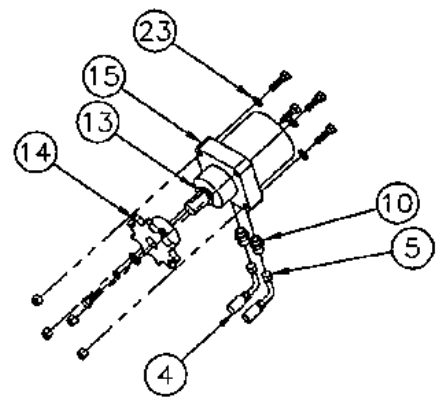
Item	Part No.	Description	Quantity
1	E4740	Guard, Support, Hydraulic	1
2	30145	Fitting, Hyd, 10MBX-8MJ90	2
3	30146	Hose, 1/2" x 33", 8FJX-8FJ90T	2
4	30147	Hose, 1/2" x 52", 8FJ90TL	2
5	30148	Hose, 1/2" x 72", 8FJX-8FJ90TL	2
6	30149	Hose, 1/2" x 108", 8FJX-8MP	2
7	30150	Fitting, Hyd, 8FJXR-8MJT	1
8	30151	Fitting, Hyd, 8MJT	1
9	30152	Fitting, Hyd, 8MB-8FJX	2
10	30204	Fitting, Hyd, 10MB-8MJ	6
11	30209	Tip, Male, Pioneer, 1/2"	2
12	30214	Fitting, Hyd, 8MBR-8MJT	2
13	40077	Washer, Motor, 1 1/4" ID x 1 7/8" OD	4
14	92063	Sprocket, Motor	4
15	92066	Motor, Hydraulic <i>deal kil 60305</i>	4
16	92070	Valve, Solenoid <i>center motor</i>	2
17	B5C0844P	Bolt, 1/2" x 2 3/4", Pltd.	16
18	B5C0432P	Bolt, 1/4" x 2", Pltd.	4
19	LNC08	Nut, Nylock, 1/2"	16
20	LNC04	Nut, Nylock, 1/4"	4
21	LW04P	Washer, Lock, 1/4", Pltd.	4
22	FW10P	Washer, Flat, 5/8", Pltd.	4
23	FW08P	Washer, Flat, 1/2", Pltd.	16
24	FW04P	Washer, Flat, 1/4", Pltd.	8



Valves



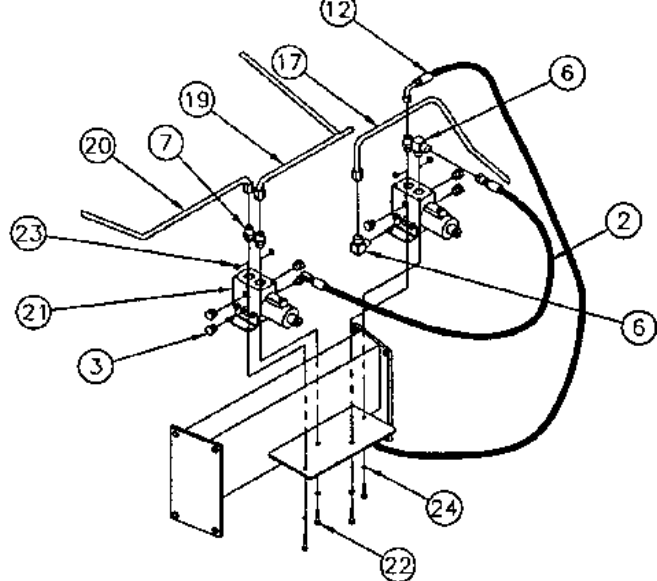
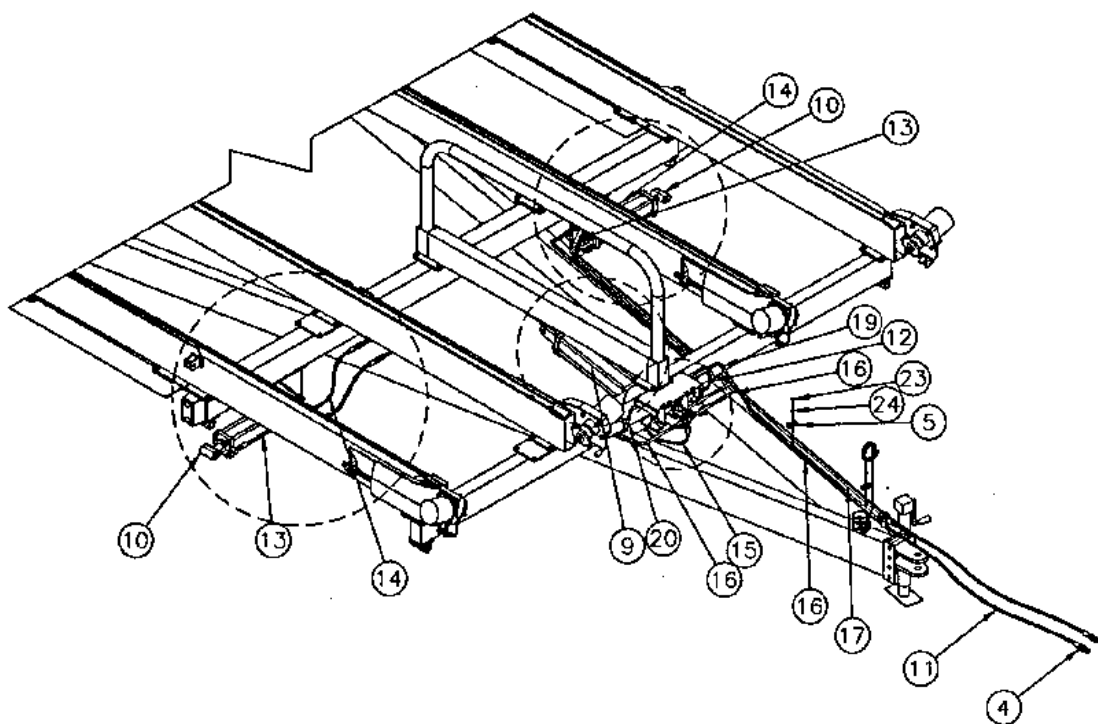
Motor (Inside)



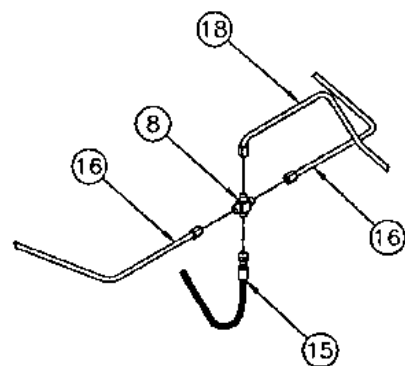
Motor (Outside)

5.2 Cylinder Hydraulics

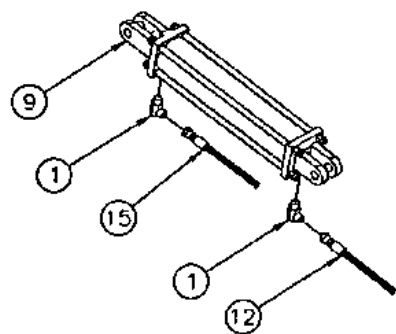
Item	Part No.	Description	Quantity
1	30153	Fitting, Hyd, 8MP-8MJ90	6
2	30154	Hose, 3/8" x 19", 8FJX-8MBX90	1
3	30200	Fitting, Plug, 8MB	6
4	30209	Tip, Male, Pioneer, 1/2"	2
5	30210	Clamp, Line, Oil	6
6	30211	Fitting, 8MB-8MJ90	2
7	30215	Fitting, 8MB-8MJ	3
8	30216	Fitting, Cross, 8MJ	1
9	90103	Cylinder, 3 1/2" x 16", 1 1/2" Rod	1
10	90120	Cylinder, 3 1/2" x 13", 1 1/2" Rod	2
11	90223	Hose, 3/8" x 58", 8MJ-8MP	2
12	90224	Hose, 3/8" x 26", 8FJX-8FJ90T	1
13	90243	Hose, 3/8" x 44", 8FJX-8MJ	2
14	90245	Hose, 3/8" x 28", 8FJX-8MJ	2
15	90252	Hose, 3/8" x 50", 8FJX-8FJX	1
16	90421	Line, Steel, Outer, 8FJ-8FJ	2
17	90422	Line, Tractor, Outer, 8FJ-8FJ	1
18	90423	Line, Tractor, Inner, 8FJ-8FJ	1
19	90424	Line, Steel, Inner, Left, 8FJ-8FJ	1
20	90425	Line, Steel, Inner, Right, 8FJ-8FJ	1
21	92089	Valve Control Arm & Bed	2
22	BFC0528P	Bolt, 5/16" x 1 3/4", Pltd	6
23	LNC05	Nut, Nylock, 5/16"	10
24	FW05P	Washer, Flat, 5/16", Pltd.	10



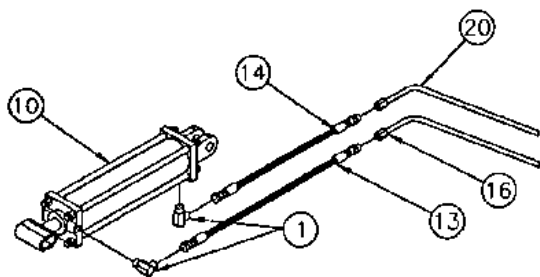
Solenoids



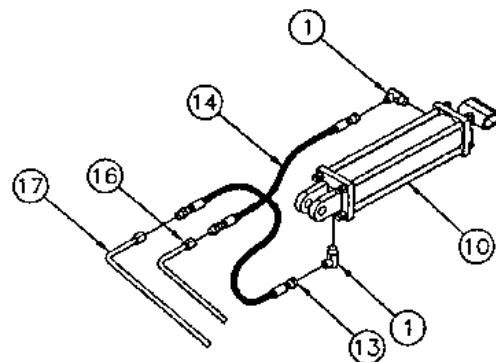
Cross



Deck Cylinder



Right Fork Cylinder

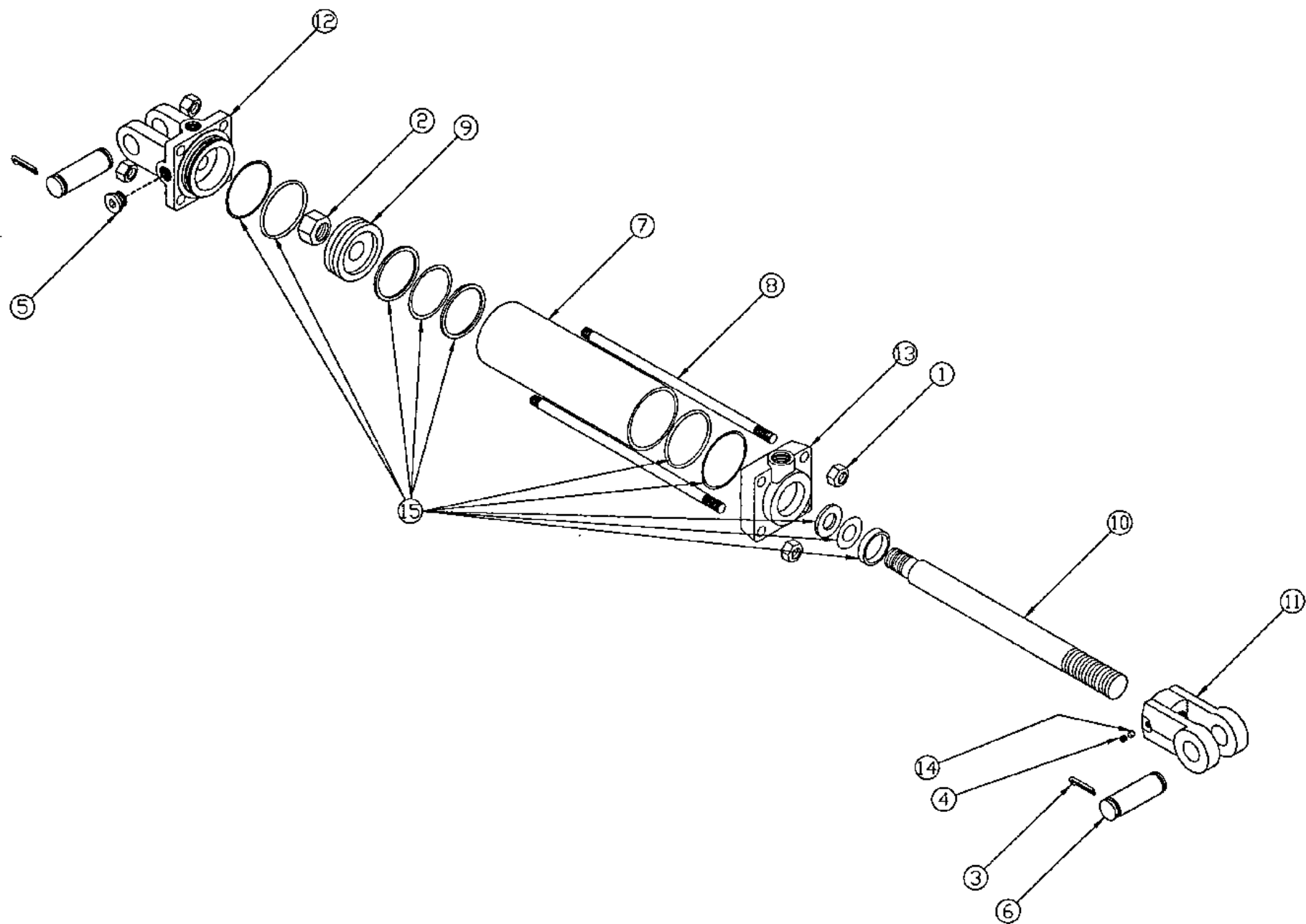


Left Fork Cylinder

6.0 Cylinders

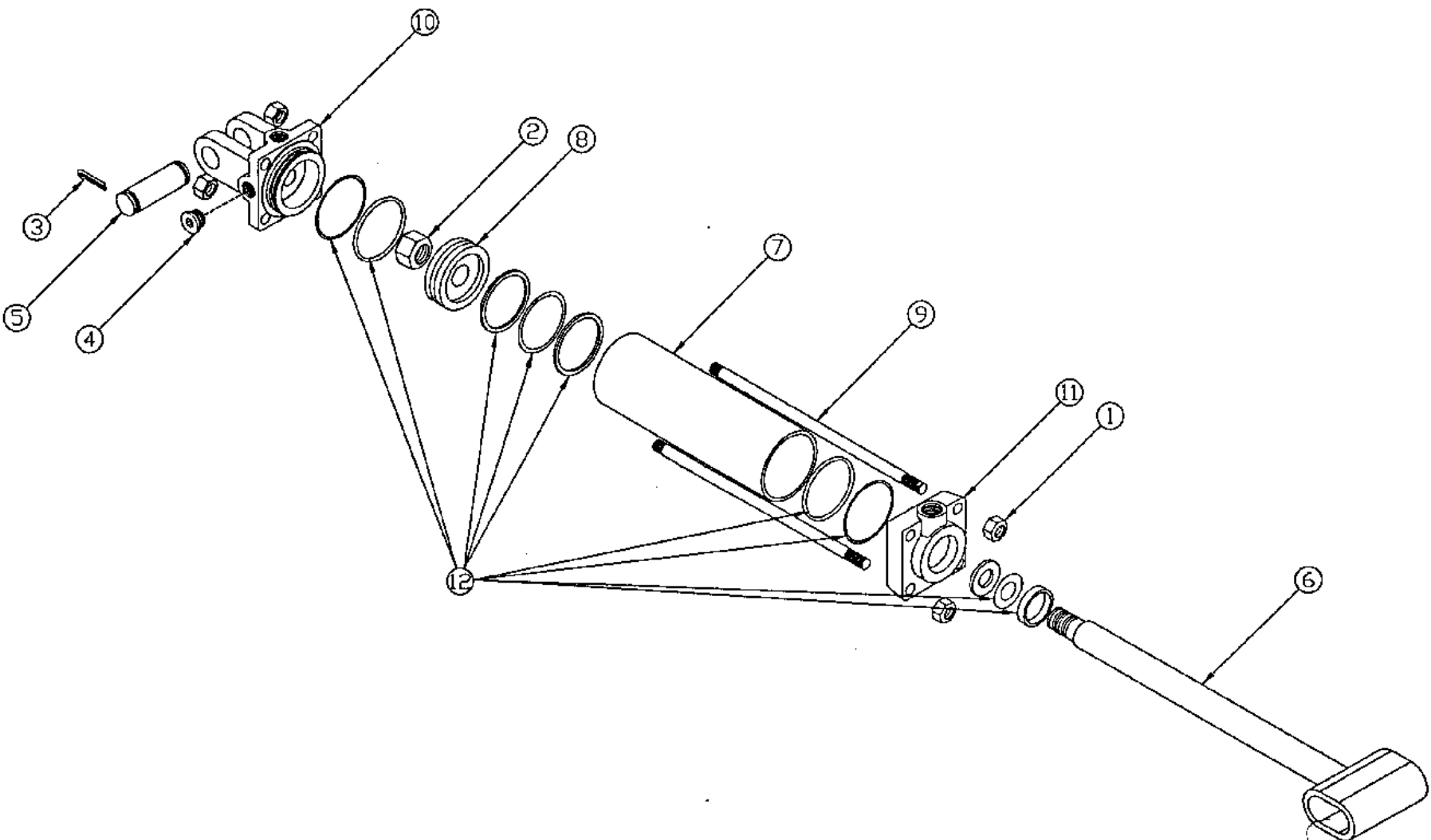
6.1 3 1/2 x 16, 1 1/2 Rod

Item	Part No.	Description	Quantity
1	30236	Nut, Hex, 5/8" UNC Grade 5	8
2	30237	Nut, Hex, 1"-14 UNS Grd 5 Phosphate	1
3	30238	Cotterpin, Hammerlock, 3/16" x 1 1/2"	4
4	30239	Screw, Set, Sckt, 3/8"UNC x 1/2" Knur	1
5	30240	Fitting, Plug, 1/2"-14 NPTF Dry Seal	1
6	30241	Pin, 1" Dia, H5552	2
7	30246	Tube, Cyl., 3 1/2" x 16", H6206	1
8	30249	Rod, Tie, 5/8" x 16", H6746	4
9	30251	Piston, 3 1/2" Dia, H6888	1
10	30252	Rod, 1 1/2" x 16"	1
11	30253	Clevis, Rod, 1 1/4", 1" Pin	1
12	30258	Cap, Clevis, 3 1/2" NPTF	1
13	30259	Cap, Rod, 3 1/2" x 1 1/2" NPTF	1
14	30261	Lock, Thread, Nylon	1
15	30263	Kit, Repair, 3 1/2" Cyl.	1



6.2 3 1/2 X 13, 1 1/2 Rod

Item	Part No.	Description	Quantity
1	30236	Nut, Hex, 5/8" UNC Grade 5	8
2	30237	Nut, Hex, 1"-14 UNS Grd 5 Phosphate	1
3	30238	Cotterpin, Hammerlock, 3/16" x 1 1/2"	2
4	30240	Fitting, Plug, 1/2"-14 NPTF Dry Seal	1
5	30241	Pin, 1" Dia, H5552	1
6	30242	Rod, 1 1/2" x 13", Weldment	1
7	30245	Tube, Cyl., 3 1/2" x 13", H6203	1
8	30251	Piston, 3 1/2" Dia, H6888	1
9	30255	Rod, Tie, 5/8" x 13", Special	4
10	30258	Cap, Clevis, 3 1/2" NPTF	1
11	30259	Cap, Rod, 3 1/2" x 1 1/2" NPTF	1
12	30263	Kit, Repair, 3 1/2" Cyl.	1

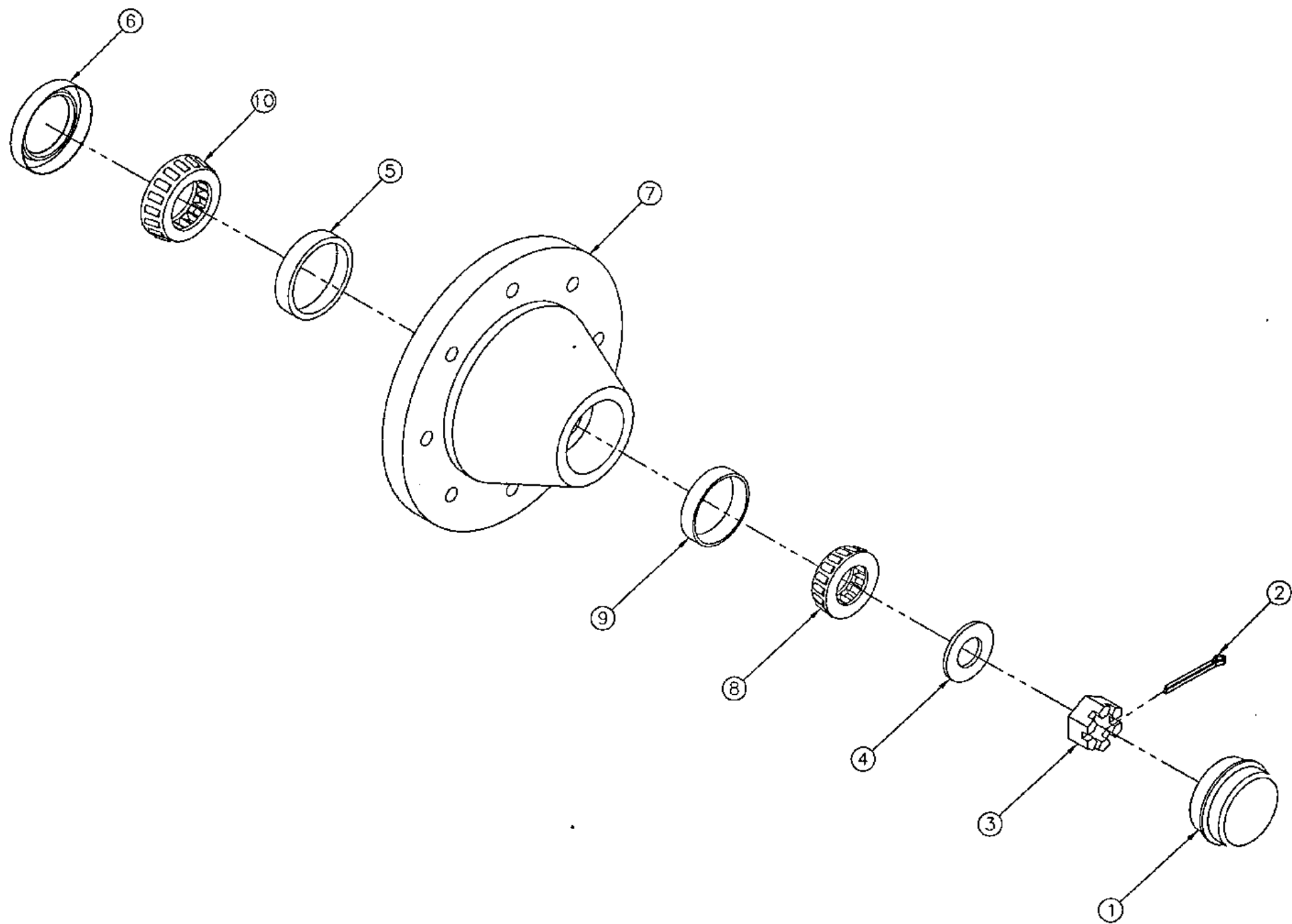


Pin
of #40008

7.0 Hub

Item	Part No.	Description	Quantity
1	30220	Cap, Dust	1
2	30221	Cotterpin, 3/16" x 1 3/4"	1
3	30222	Nut, Slotted, 1 1/4"	1
4	30223	Washer, Flat, 1" SAE	1
5	30226	Race, Inner	1
6	30228	Seal, Grease	1
7	30229	Hub, 8-Bolt	1
8	91111	Bearing, Outer	1
9	91131	Race, Outer	1
10	91133	Bearing, Inner	1

Note: Wheel bearings should be repacked yearly.

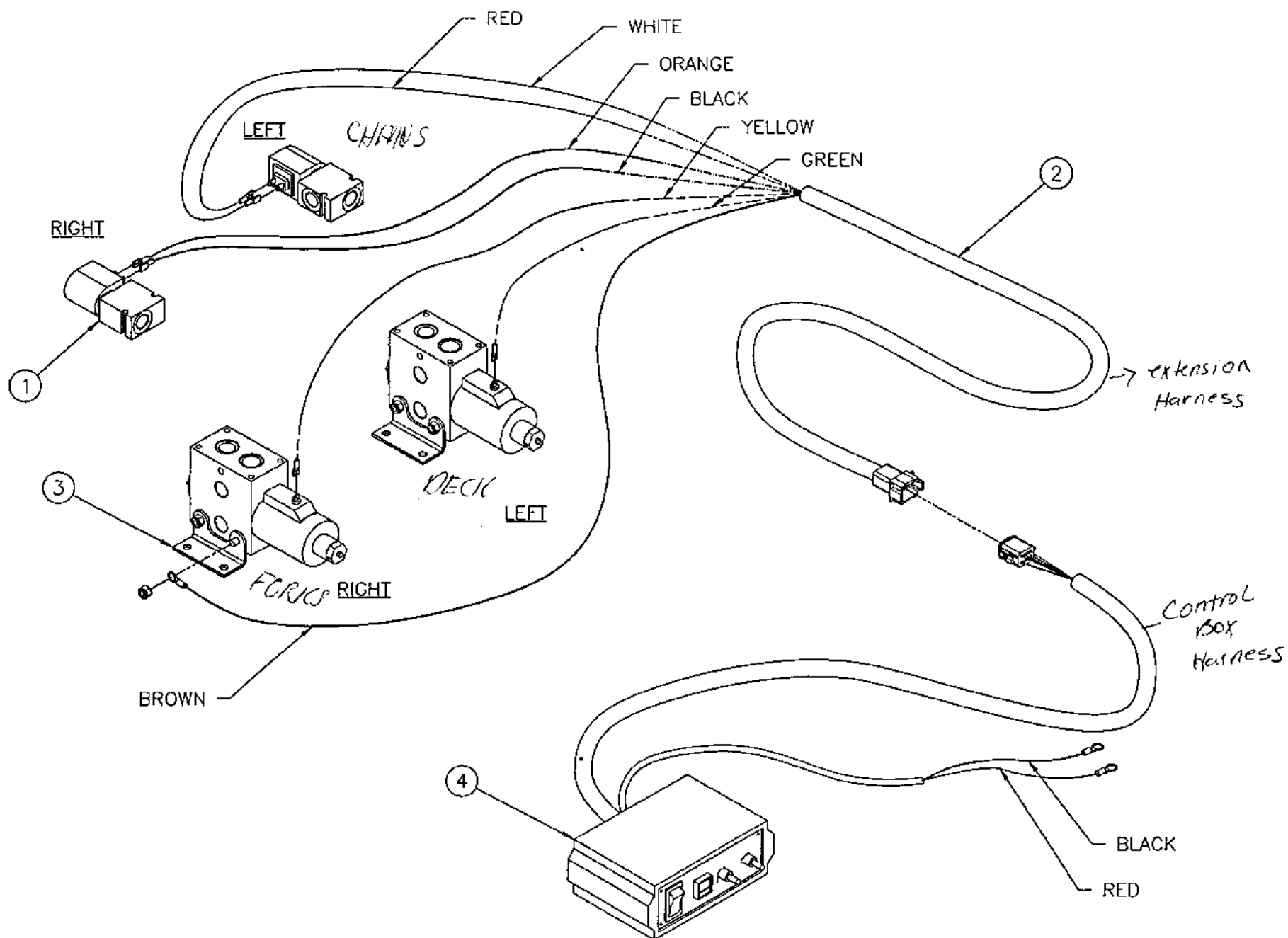


8.0 Electrical Schematic

8.1 Electrical Schematic

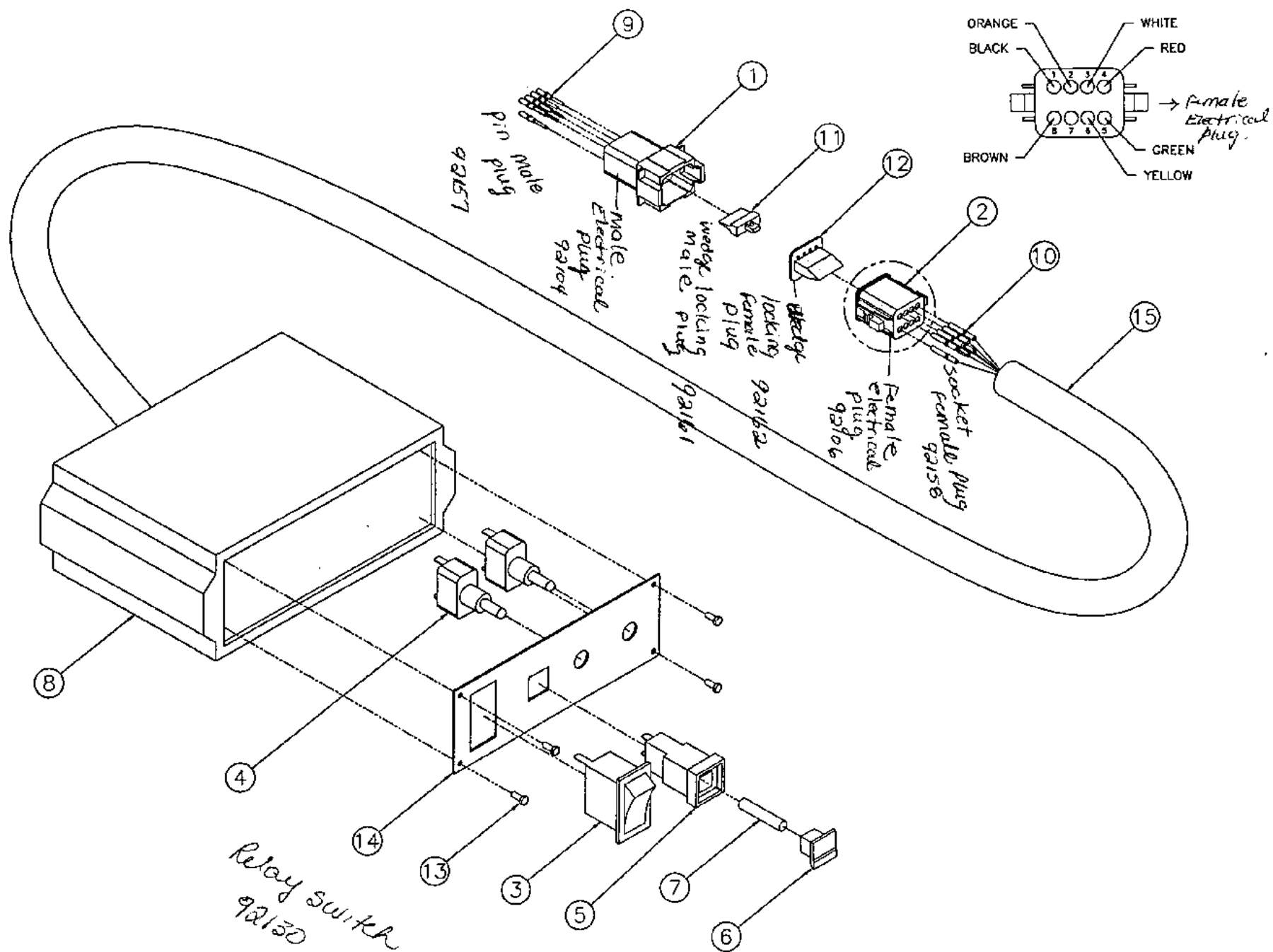
Item	Part No.	Description	Quantity
1	92070	Valve, Solenoid	0
2	92077	Harness, Extension, 14BM	1
3	92089	Valve	0
4	92125	Box, Control, 1400BM (1994)	1

Note: Black wire from control box to tractor ground
Red wire from control box to tractor ignition accessory.



8.2 Control Box and Wiring Harness

Item	Part No.	Description	Quantity
1	92104	Electrical, Plug Male	1
2	92106	Electrical, Plug Female	1
3	92107	Switch, On/Off	1
4	92108	Switch, Toggle	2
5	92138	Fuse, Body	1
6	92139	Fuse, Cap	1
7	92140	Fuse, 20 Amp	1
8	92146	Enclosure, Plastic	1
9	92157	Pin, Male Plug	7
10	92158	Socket, Female Plug	7
11	92161	Wedge, Locking, Male Plug	1
12	92162	Wedge, Locking, Female Plug	1
13	92164	Screw, Tapping, #4 x 1/4	4
14	92220	Plate, Face, Box, Control	1
15		Wiring, Box, Control, 6 ft	1



9.0 Specifications

Weight	Approximately 7500 lbs (3400 kg)
Total Length	43'5"
Bed Length	37'
Total Width	16'9"
Bed Width	11'2"
Total Height	9'2"
Bed Height	3'3"
Ground Clearance	13 1/2"
Maximum Capacity	14 – 5 Ft. Bales
Chain & Sprocket	Heavy Duty ASA 2062, 1 1/2 Pitch
Tires	Goodyear, 11L-15FI, 12 Ply Farm Highway Service
Undercarriage	2 – 4 wheel oscillating tandems
Horsepower Required	90 Horsepower
Hydraulic Outlets	2
Hydraulic Pressure	2500 psi.(17240 kPa)