

HIGHLINE MFG.
INC.

1997

MODEL 500

**Assembly-Operator
Parts Manual**

SCHEMATIC DRAWING

500 BM
700 BM

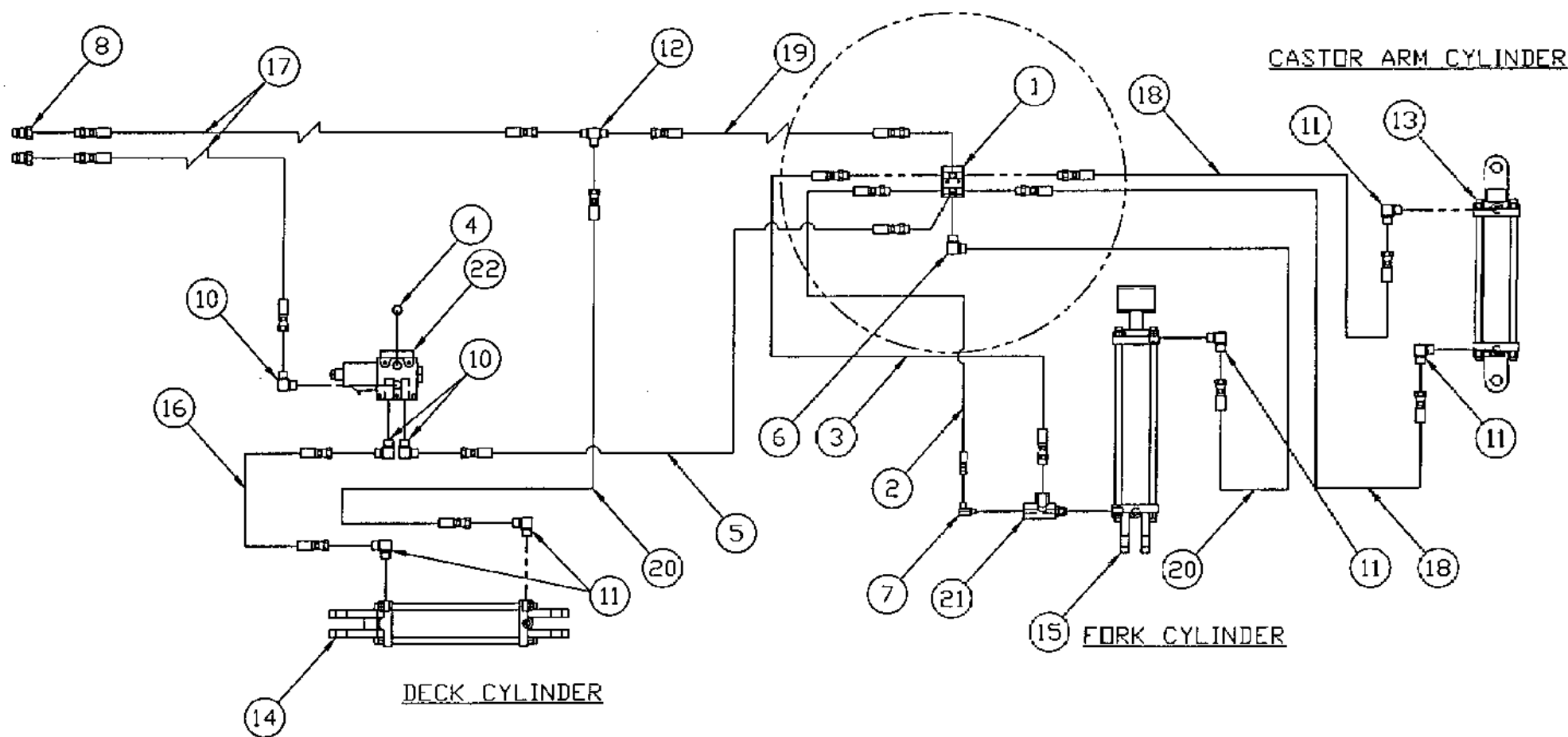
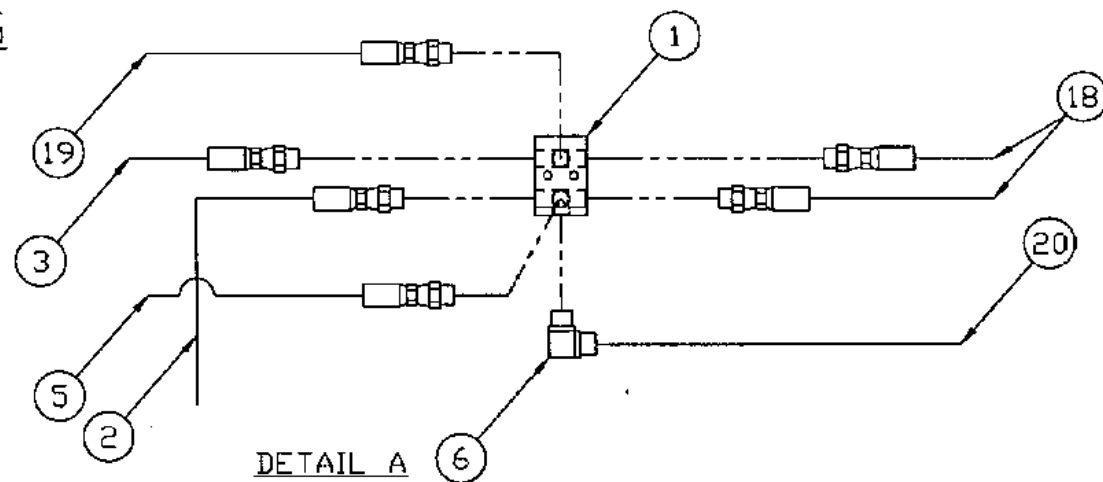


Table of Contents

Table of Contents	1
Warranty	3
Presidents Message	5
Safety Precautions.....	6
1.0 Pre-delivery & Installation Instructions.....	7
1.1 General Description of 500 Bale Mover	7
1.2 Pre-Delivery Check List	7
2.0 Operating Instructions.....	9
2.1 Pre-start instructions	9
2.3 Transporting Instructions.....	9
2.4 Bale Size Adjustment.....	9
2.5 Field Instructions	10
3.0 Maintenance Instructions	11
Grease Locations.....	11
4.0 Parts Information	14
4.1 Tandem	14
4.2 Subframe	16
4.3 Hitch.....	18
4.4 Rail and Crossmember Subframe	20
4.5 Forks	22
4.6 Chain Tightner and Chain.....	24
4.7 Castor Wheel.....	26
4.8 Castor Wheel Support.....	28
5.0 Hydraulics	30
5.1 Motor Hydraulics	30
5.2 Cylinder Hydraulics	32
6.0 Cylinders.....	36
6.1 3 x 8, 1 1/4 Rod.....	36
6.2 3 X 10, 1 1/4 Rod	38
6.3 3 1/2 x 13, 1 1/2 Rod.....	40
7.0 Hub.....	42
7.1 Tandem Wheel	42
7.2 Castor Wheel.....	44
8.0 Electrical	46
8.1 Electrical Schematic.....	46
8.2 Control Box and Wiring Harness.....	48
9.0 Specifications.....	51

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 5 – 5 foot bales or 11,000 lbs at 25 mph
- 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 500 Bale Mover, a proven name in the bale handling field is manufactured by **HIGHLINE Mfg Inc.** The 500 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 500 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 500 Bale Mover

The 500 Bale Mover is 8' wide and a length of 31'7". 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 500 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 500 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
2	PIN,ARM,PIVOT	40008
1	PIN,ARM,SIDE,PIVOT	40010
1	ARM,PIVOT,RIGHT	40012
1	ARM,SLIDE,PIVOT,RIGHT	40018
1	PIN,LOCK,SAFTEY	40019
1	FORK,RIGHT	40022
1	FORK,RIGHT,1/4 TURN	40023
2	ARM,DIVIDER,BALE	40085
1	BRACKET,CYLINDER	40087
1	BOX,CONTROL,500BM(1997)	40103
2	BEAM,WALKING,5BM,7BM(97)	40108
1	SUBFRAME,5BM (97)	40110
1	RAIL,LEFT,5BM	40113
1	RAIL,RIGHT,5BM	40114
1	SLIDE,MOUNT,MOTOR,LEFT	40115
1	SLIDE,MOUNT,MOTOR,RIGHT	40116
1	WHEEL,CASTOR	40117
2	PIN,SPROCKET,REAR	40121
4	ASSEMBLY,WHEEL,COMPLETE	40122
1	ARM,SUPPORT	45003
1	POCKET,BEAM,WALKING,MIDDLE	45006
1	HITCH,FRAME,LEFT	45010
1	HITCH,FRAME,RIGHT	45011
1	CROSSMEMBER,HITCH	45012
1	DIVIDER,BALE	45016
1	BRACKET,SIGN,SMV	45022
1	PIN,WHEEL,SUPPORT	45025
1	HITCH,TONGUE,DOUBLE	45060

Quantity	Description	Part No.
1	CROSSMEMBER, REAR, WIDENED	45130
4	HUB, 8BOLT, 5000LB, EM5500	30102
2	PIN, ROLL, 3/16 X 1 1/2	30197
1	HOLDER, HOSE, HYDRAULIC, 1/2	30206
9	ZERK, GREASE, 1/4-28, GF641	30207
1	CHAIN, TRANSPORT, BM	30217
2	C2062 CONNECTING LINK	91510
2	C2062 OFFSET LINK	91511
4	C2062H X 304PI CHAIN, 5BM	91514
1	1/8 X 2 1/2 HAIRPIN	91608
2	SPROCKET, REAR, BM, C2062C7	92023
2	BUSHING, BRASS, SS3240-24	92024
1	SLOW MOVING VEHICLE SIGN	92028
1	RUBBER BUMPER	92061
1	HARNESS, EXTENSION, 5&7BM	92078
1	5000LB X 15" SIDEWIND	92095
2	1 X 7.5 UNC GR5 PLATED	B5C16120P
4	3/4 X 3 UNC GR5 PLATED	B5C1248P
20	5/8 X 1 3/4 UNC GR5 PLATED	B5C1028P
9	5/8 X 1 1/2 UNC GR5 PLTD,	B5C1024P
64	1/2 X 1 1/2 UNC GR5 PLTD.	B5C0824P
2	1/4 X 3/4 UNC GR5 PLATED	B5C0412P
2	1" UNC LOCKNUT	LNC16
4	1"-5 RH ACME NUT	NRHACME16
4	3/4" UNC LOCKNUT	LNC12
29	5/8" UNC LOCKNUT	LNC10
67	1/2" UNC LOCKNUT	LNC08
2	5/16" UNC LOCKNUT	LNC05
2	1/4" UNC LOCKNUT	LNC04
2	1" LOCKWASHER PLATED	LW16P
1	1/2" FLATWASHER	FW08
2	5/16 FLATWASHER PLTD.	FW05P
5	1/4" X 2 1/2" COTTERPIN	CP0440

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.

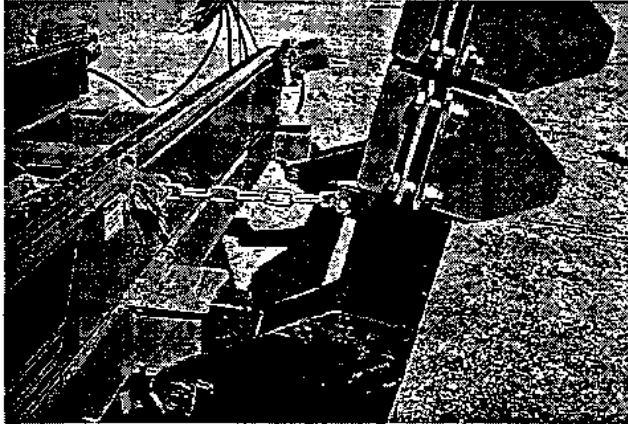


Figure 1. Locks in Transport Position

2.3 Transporting Instructions

To ensure safe transport of the 500 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.

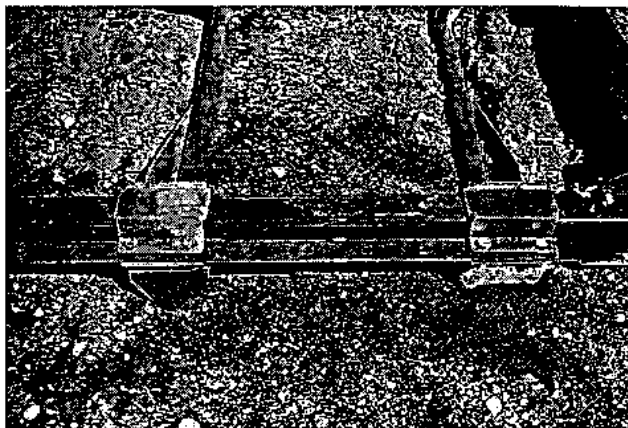


Figure 2. Fork Adjusting

2.5 Field Instructions

For proper operation, the 500 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 500 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.

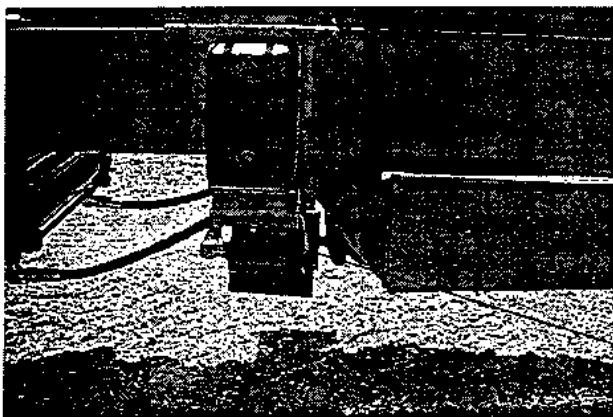
Grease Locations



Grease No	Description	Frequency
1	Arm, Pivot, Right	Daily

1

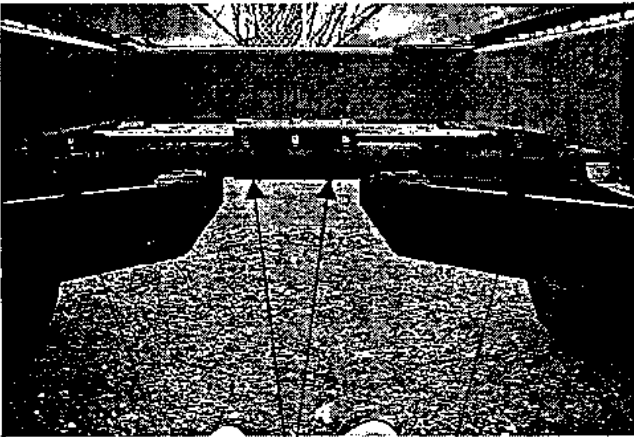
Figure 3. Pivot Arm Grease Location



Grease No	Description	Frequency
2	Arm, Slide, Pivot, Right	Daily

2

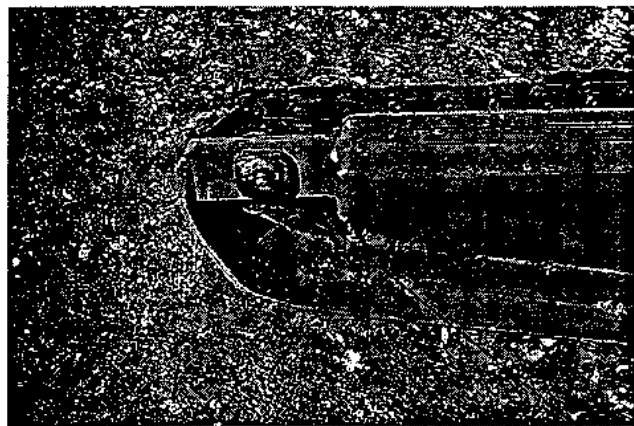
Figure 4. Pivot Slide Arm Grease Location



Grease No	Description	Frequency
3	Pocket, Beam Walking, Left,	Monthly
4	Pocket, Beam Walking, Right	Monthly
5	Pocket, Beam Walking, Middle	Monthly

4 5 3

Figure 5. Oscillating Tandem Grease Location



Grease No	Description	Frequency
6	Pin, Sprocket, Rear, Left,	Monthly
7	Pin, Sprocket, Rear, Right,	Monthly

Figure 6. Rear Sprocket Pin

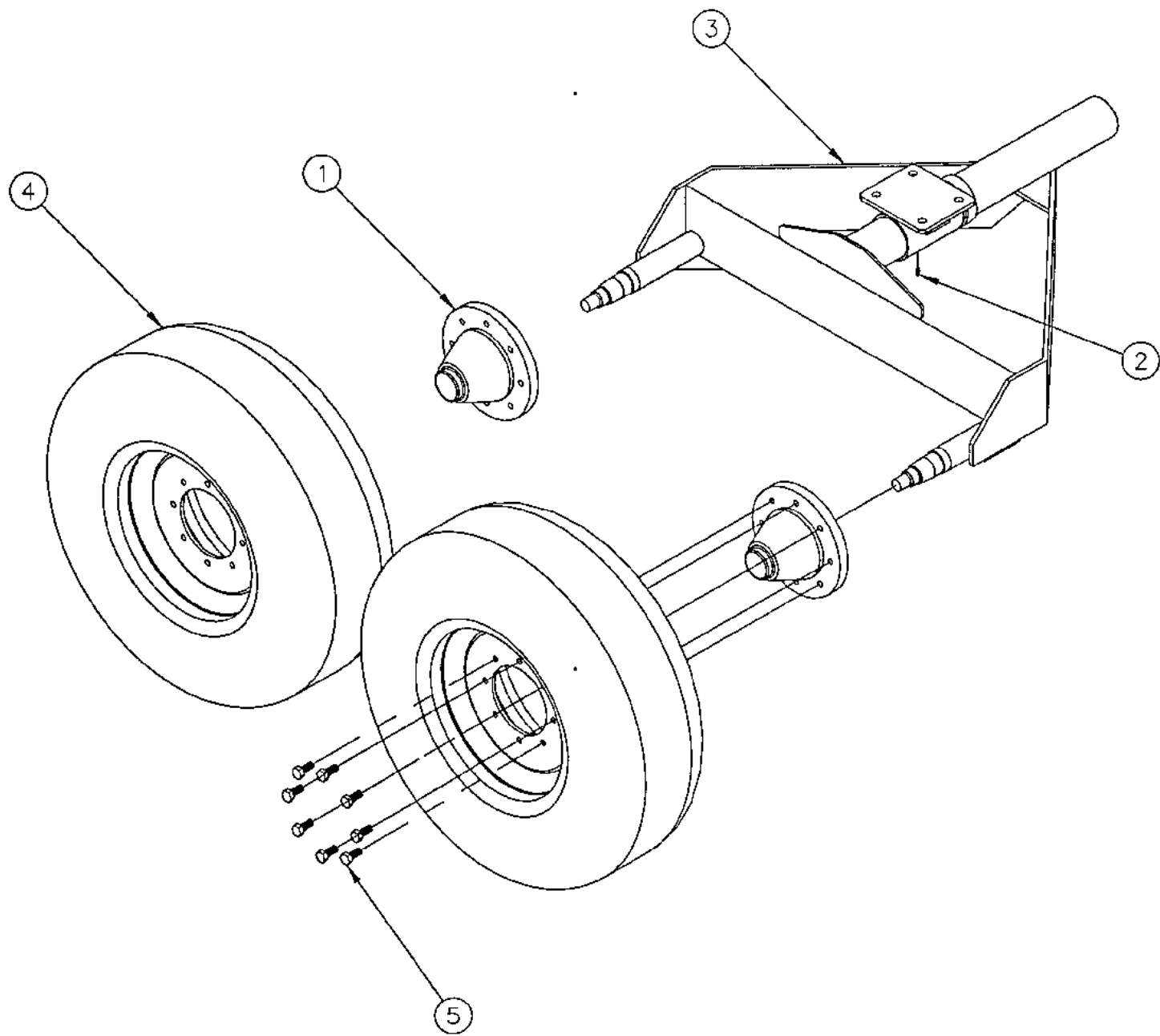
7

4.0 Parts Information

4.1 Tandem

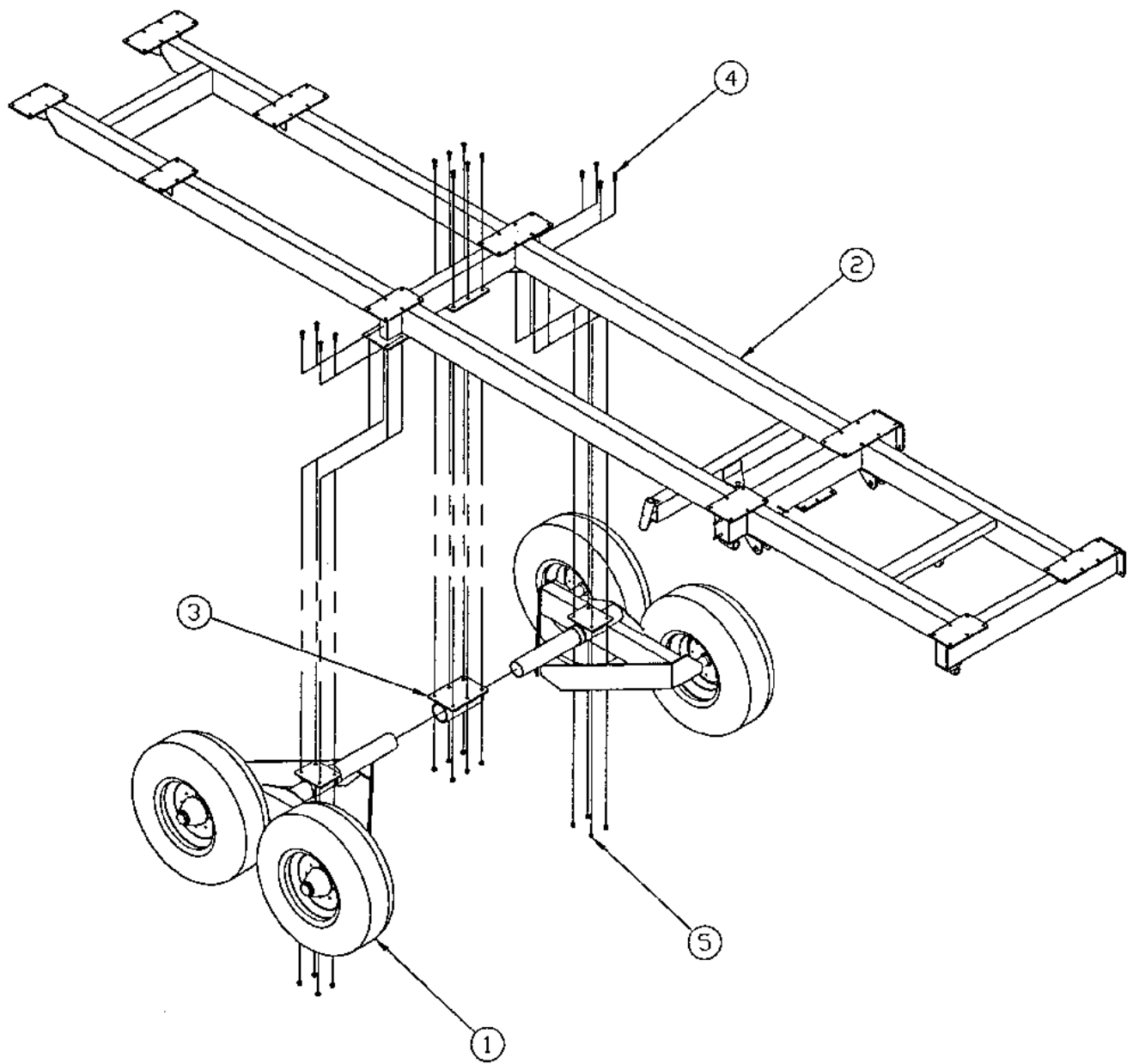
Item	Part No.	Description	Quantity
1	30102	Hub, 8 Bolt, 5000 lbs, EM5500	4
2	30207	Zerk, Grease, 1/4-28	2
3	40108	Beam, Walking, Main	2
4	40122	Assembly, Wheel, Complete	4
5	91061	Bolt, Wheel, 9/16"	32

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



4.2 Subframe

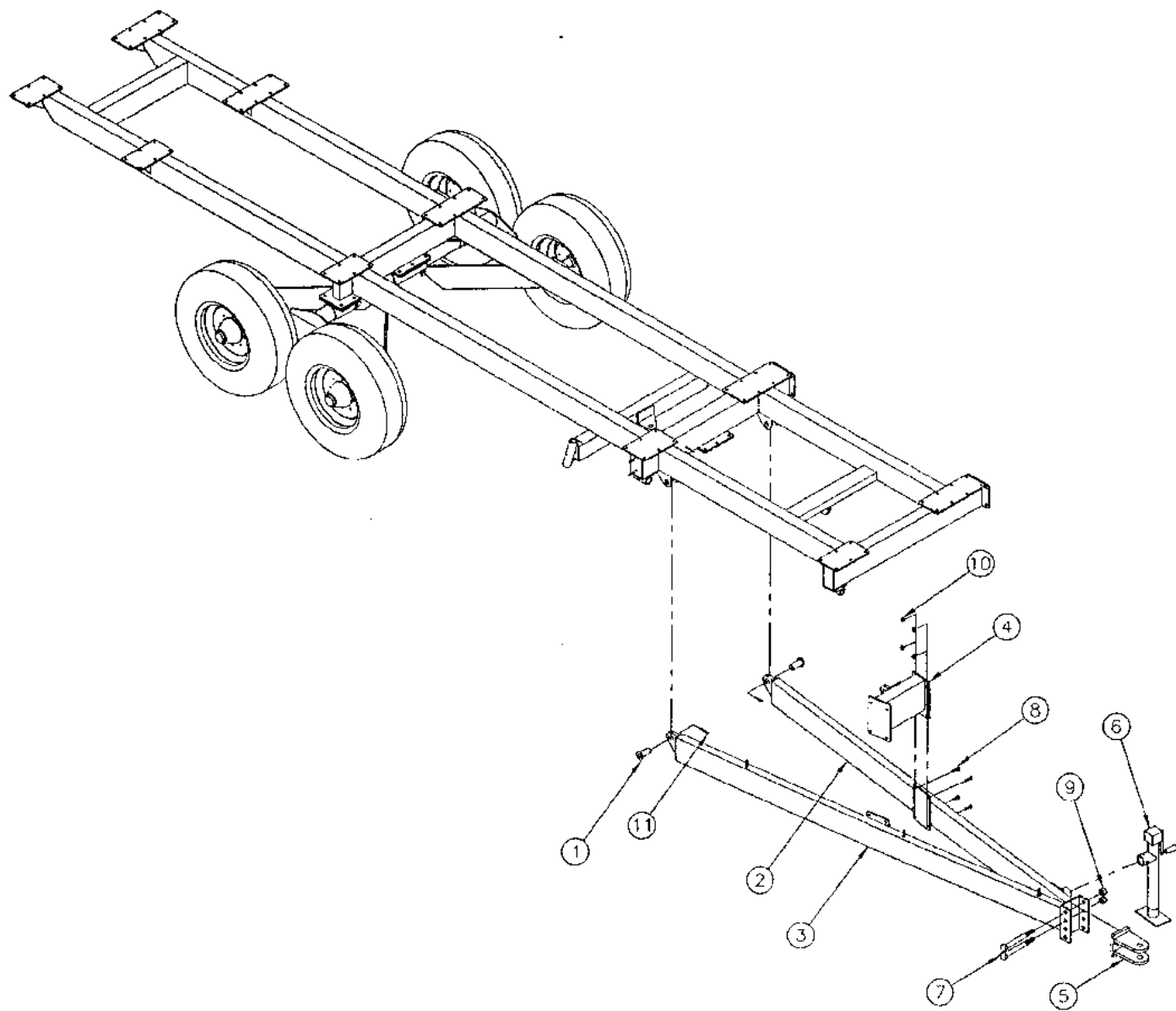
Item	Part No.	Description	Quantity
1		Assembled Tandems	2
2	40110	Subframe, 5BM (1997)	1
3	45006	Pocket, Beam, Walking, Middle	1
4	B5C1028P	Bolt, 5/8" x 1 3/4", Pltd.	14
5	LNC08	Nut, Nylock, 5/8"	14



4.3 Hitch

Item	Part No.	Description	Quantity
1	40003	Pin, Hitch, Subframe	2
2	45010	Hitch, A-Frame, Left	1
3	45011	Hitch, A-Frame, Right	1
4	45012	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	B5C0824P	Bolt, 1/2" x 1 1/2", Pltd.	8
9	LNC16	Nut, Nylock, 1"	2
10	LNC10	Nut, Nylock, 1/2"	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.



4.4 Rail and Crossmember Subframe

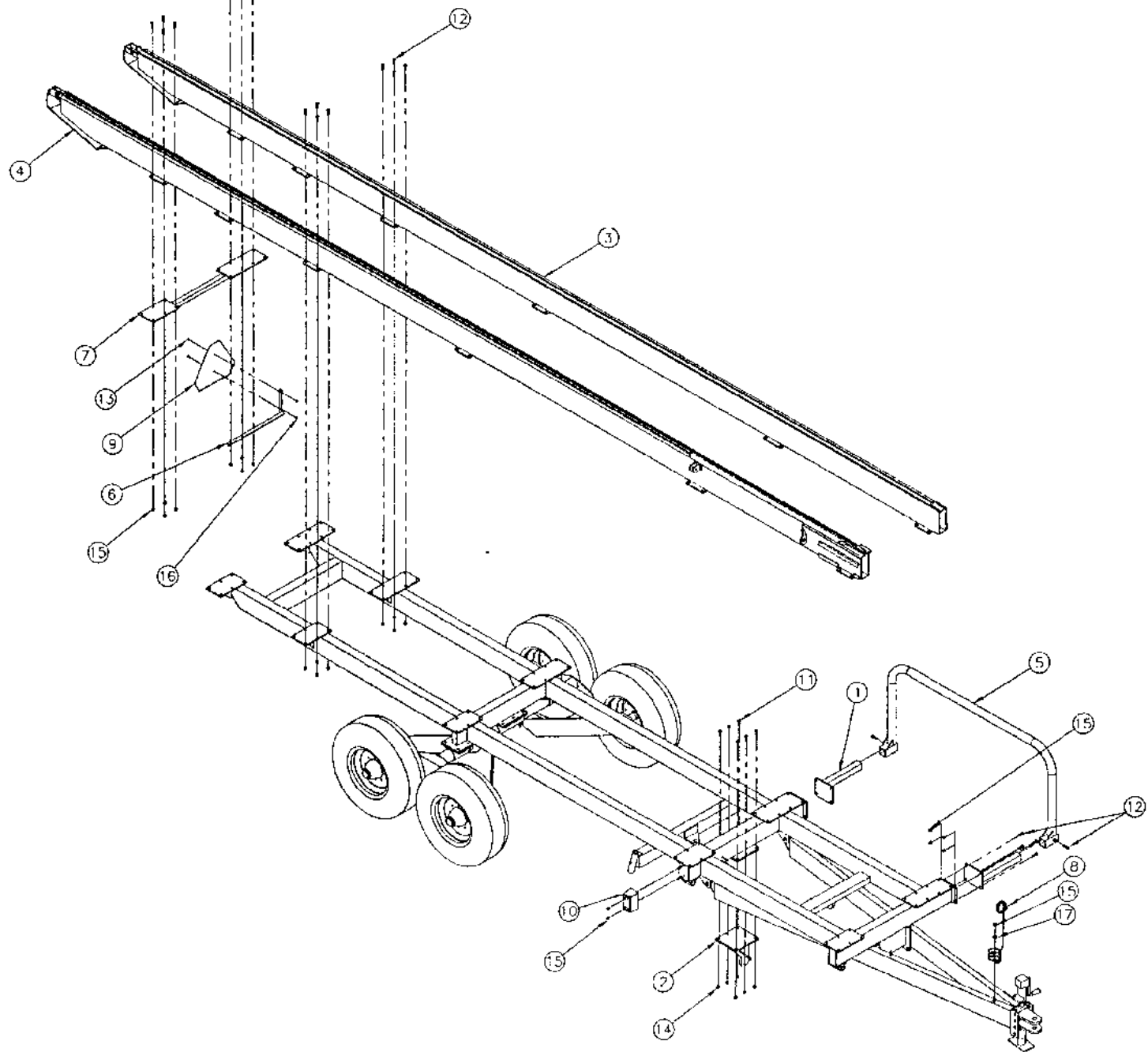
Item	Part No.	Description	Quantity
1	40085	Arm, Divider, Bale	2
2	40087	Bracket, Cylinder	1
3	40113	Rail, Left	1
4	40114	Rail, Right	1
5	45016	Divider, Bale	1
6	45022	Bracket, Sign, SMV	1
7	45130	Crossmember, Widened	1
8	30206	Holder, Hose, Hydraulic, 1/2"	1
9	92028	Sign, Vehicle, Moving, Slow	1
10	92061	Bumper, Rubber	1
11	B5C1028P	Bolt, 5/8" x 1 3/4", Pltd.	6
12	B5C0824P	Bolt, 1/2" x 1 1/2", Pltd.	58
13	B5C0412P	Bolt, 1/4" x 3/4", Pltd.	2
14	LNC08	Nut, Nylock, 5/8"	6
15	LNC08	Nut, Nylock, 1/2"	61
16	LNC04	Nut, Nylock, 1/4"	2
17	FW08	Washer, Flat, 1/2", Pltd	1

Note:

Install all rails on subframe leaving bolts loose.

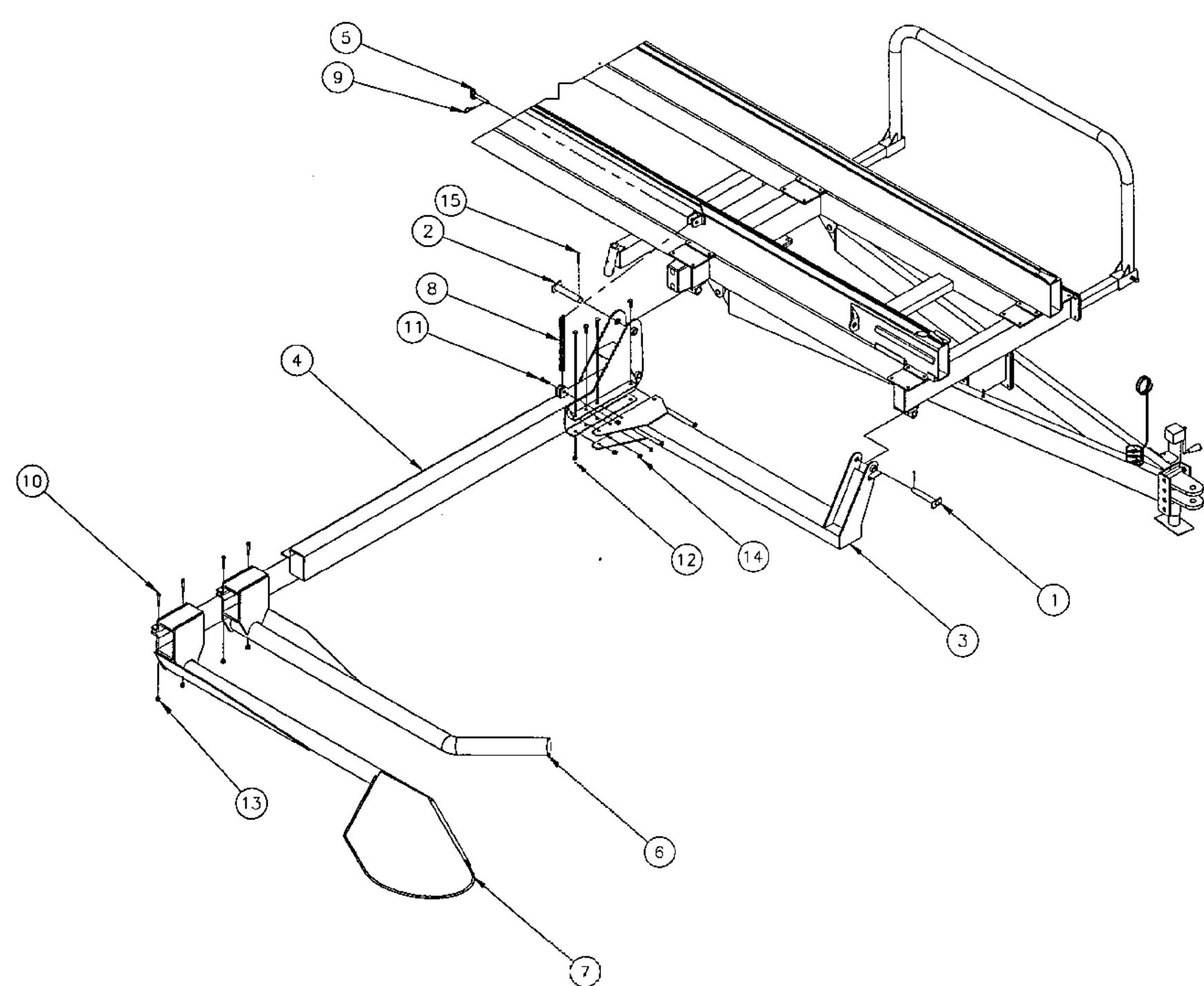
Install deck cylinder in the fully closed position between the hitch and deck lug.

Lift hitch until front of the bale mover is fully supported then tighten all bolts.



4.5 Forks

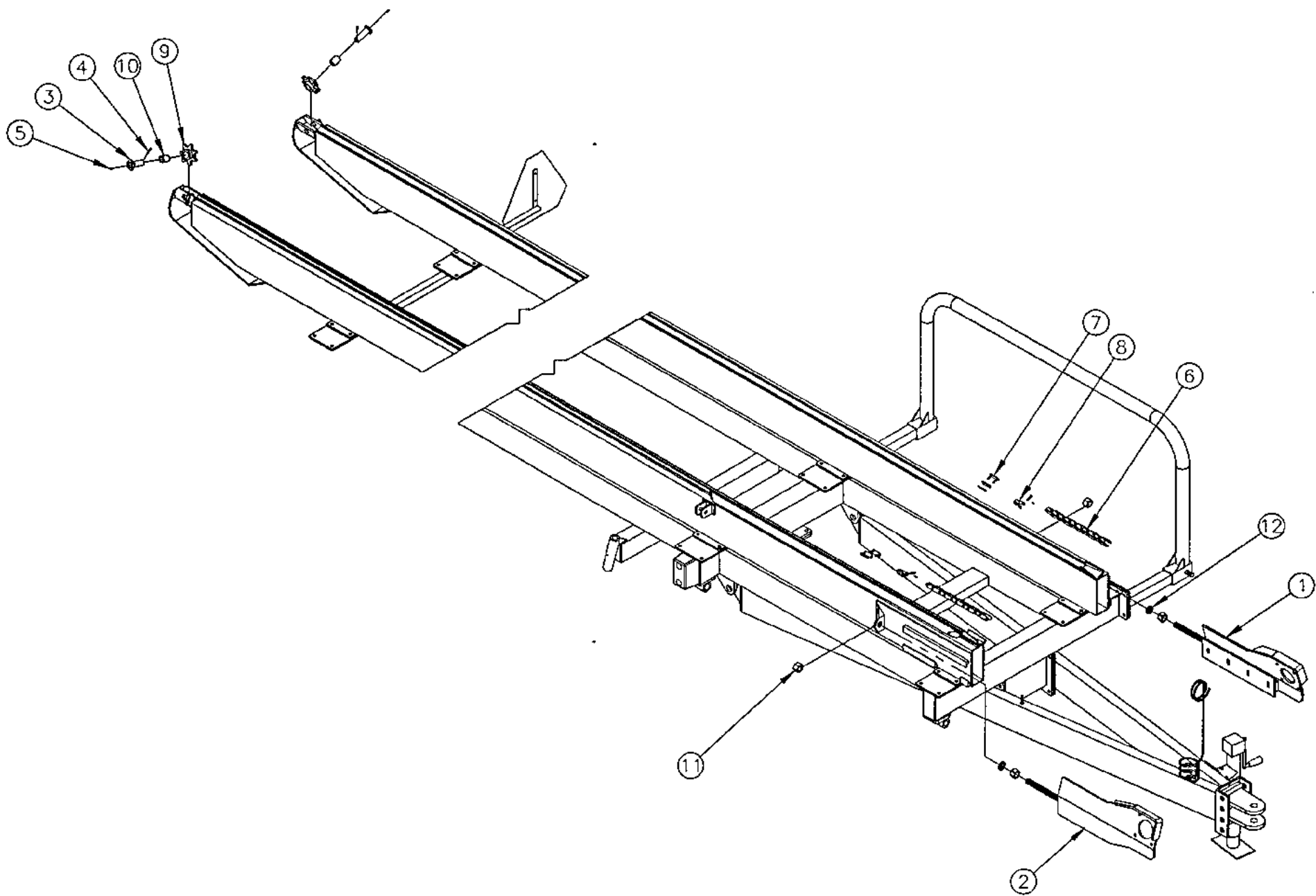
Item	Part No.	Description	Quantity
1	40008	Pin, Arm, Pivot	2
2	40010	Pin, Arm, Side, Pivot	1
3	40012	Arm, Pivot, Right	1
4	40018	Arm, Slide, Pivot, Right	1
5	40019	Pin, Lock, Safety	1
6	40022	Fork, Right	1
7	40023	Fork, Right, 1/4 Turn	1
8	30217	Chain, Transport, Bale Mover	1
9	91608	Hairpin, 1/8" x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



4.6 Chain Tightner and Chain

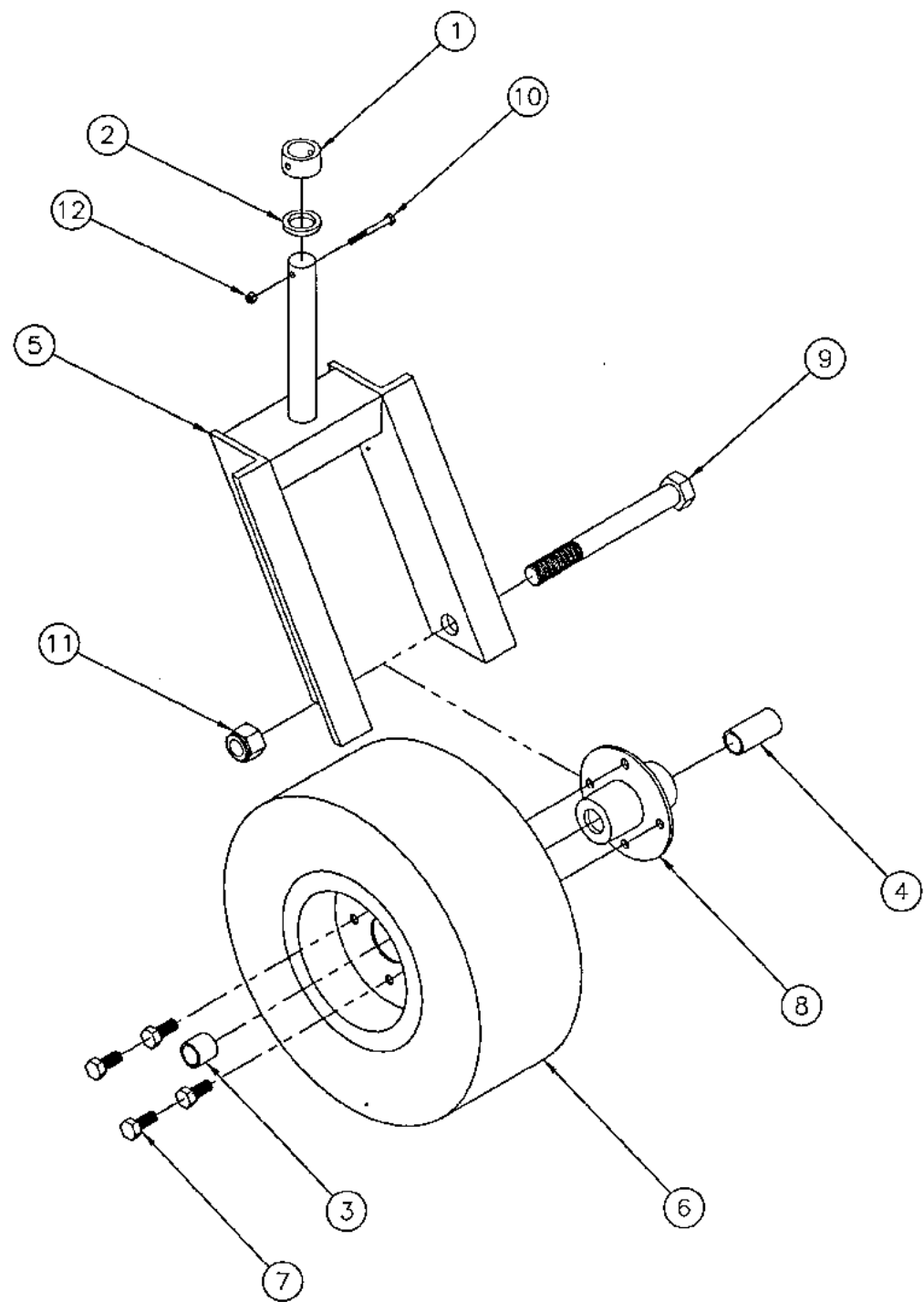
Item	Part No.	Description	Quantity
1	40115	Slide, Mount, Motor, Left	1
2	40116	Slide, Mount, Motor, Right	1
3	40121	Pin, Sprocket, Rear	2
4	30197	Pin, Roll, 3/16" x 1 1/2"	2
5	30207	Zerk, Grease, 1/4"-28	2
6	91510	Link, Connecting, C2062	2
7	91511	Link, Offset, C2062	1
8	91514	Chain, C2062H x 304PI, 5BM	4
9	92023	Sprocket, Rear	2
10	92024	Bushing, Brass	2
11	NRHACME16	Nut, Acme, 1" - 5 RH	4
12	LW16P	Washer, Lock, 1", Pltd.	2

Note: 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.



4.7 Castor Wheel

Item	Part No.	Description	Quantity
1	E2852	Holder, Pivot, Wheel, Land	1
2	E2853	Holder, Wheel, Land	1
3	E3060	Bushing, Wheel, Castor	1
4	E3075	Bushing, Wheel, Castor	1
5	70063	Fork, Wheel, Land	1
6	91031	Tire, Castor, c/w Rim, 4-Bolt	1
7	91060	Bolt, Wheel, 1/2"	4
8	91073	Hub, Castor, 4-Bolt	1
9	B5C16144P	Bolt, 1" x 9", Pltd.	1
10	B5C0440P	Bolt, 1/4" x 2 1/2", Pltd	1
11	LNC16	Nut, Nylock, 1"	1
12	LNC04	Nut, Nylock, 1/4"	1



4.8 Castor Wheel Support

Item	Part No.	Description	Quantity
1	40117	Wheel, Castor	1
2	45003	Arm, Support	1
3	45025	Pin, Wheel, Support	1
4	30207	Zerk, Grease, 1/4"-28	1
5	CP0440P	Cotterpin, 1/4" x 2 1/2"	1

NOTES:

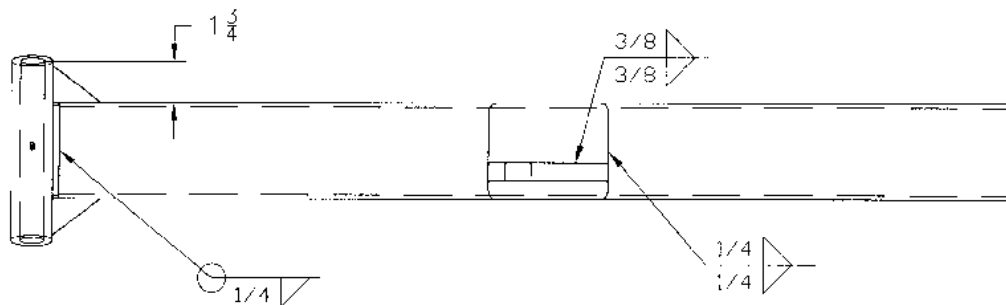
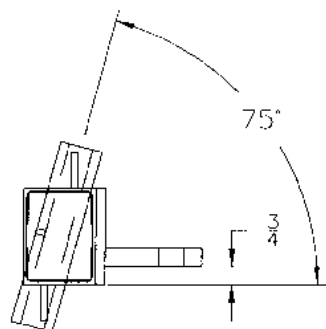
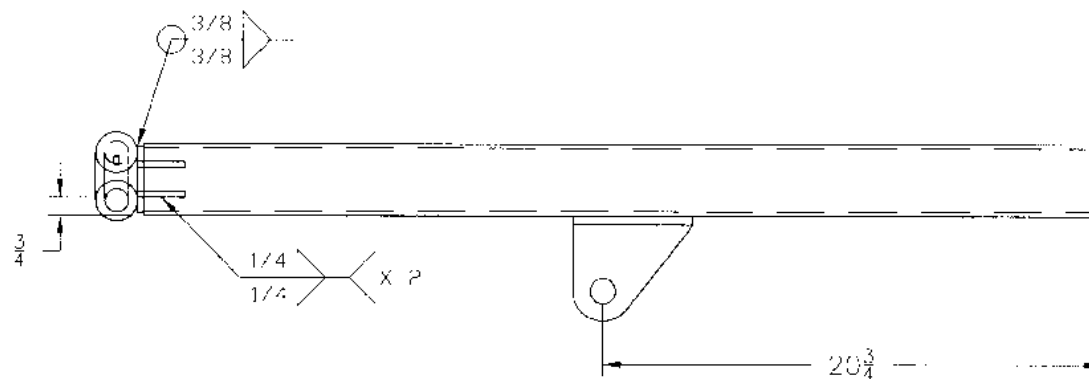
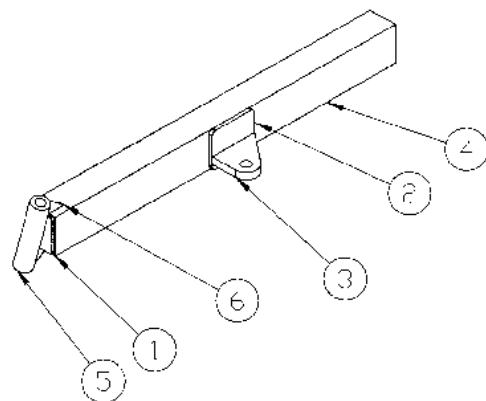
DWG NO 40133

MATL

DATE DRAWN 31 JUL 97

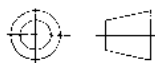
SH 1

ZONE		LTR	DESCRIPTION	REVISIONS	DATE	APPROVED
A			INITIAL RELEASE		31 JUL 97	
B						
C						
D						
E						
F						
G						



ALL DIMS ARE IN INCHES

END VIEW
PROJECTION



Next Assy: Quantity:
40109 1
40110 1

Drn. By: RJB
Checked: SJT
Eng.:
Manuf.:
Materials:
Quality:

Default Tolerances:

1. LINEAR DIMS: .5" - 1" .000
1" - 2" .005
2" - 4" .010
4" - 6" .015
6" - 10" .020
10" - 16" .030
2. ANGLES: ± 1/2°
3. CONCENTRICITY: .010 DIA
4. MACHINE FINISH: 125 MICRO INCH RMS
5. MACHINING INTERNAL RADIUS: .015
6. BREAK: SHARP CORNERS

Part Number: 40133

Models:

5BM, 7BM

Size:
A

Page:
1 of 1

Description:

MOUNT, CASTOR, SUBFRAME

Scale: 1:1

HIGHLINE

MFG

Dwg. No: 40133

Rev: A

Highline Mfg. Inc. claims proprietary rights to the material disclosed herein. This drawing is for engineering information only. It may not be reproduced nor the information be used for any purpose without written permission from Highline Mfg. Inc.

The equipment shown is protected by patents.

Report: BM081R
 Date: 7/16/98
 Time: 8:33:29
 By: RJH * QPADEV0010

CMS Bill of Materials - Single Level BOM Report

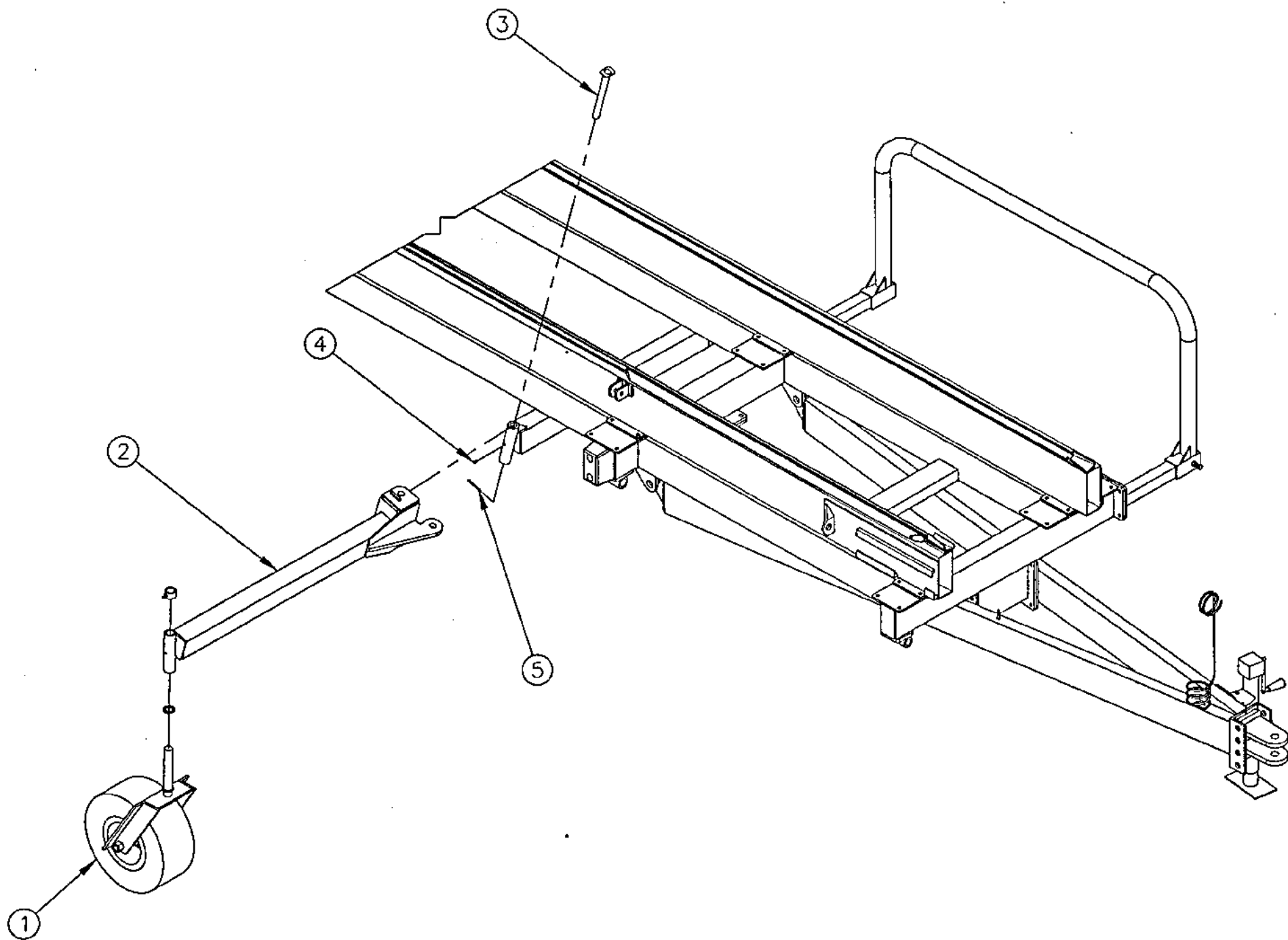
Page. 1

Parent Part #: 40133
 MOUNT, CASTOR, FRAME
 Customer:

Customer Part #:
 ECN #:
 Eng. Drwg. #:
 Location:

Revision: A 2/21/97
 Size:

Seq/Line	Component	Part #	Description	Quantity Per	Units	Engineering Drawing #	Stock Type	ECN#	Vendor #	Stock Loc.
10-	1	E1511	CAP, SUPPORT, ARM	1.0000	EA		P			WRH
10-	2	E1512	PLT, LUG, MOUNT, CASTOR, FRAME	1.0000	EA		M			WRH
10-	3	E1513	LUG, MOUNT, CASTOR, FRAME	1.0000	EA		P			WRH
10-	4	E1514	TUBE, MOUNT, CASTOR, FRAME	1.0000	EA		M			WRH
10-	5	E1515	BUSHING, MOUNT, CASTOR, FRAME	1.0000	EA		M			WRH
10-	6	E1701	GUSSET, T, 1/4X2X1-1/2	2.0000	EA		M			WRH



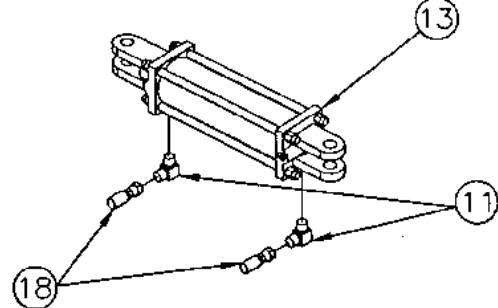
5.0 Hydraulics

5.1 Motor Hydraulics

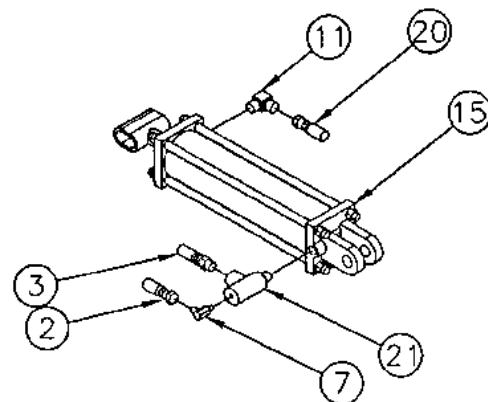
Item	Part No.	Description	Quantity
1	30204	Fitting, Hyd, 10MB-8MJ	2
2	30205	Hose, 1/2" x 57 ", 8FJ90TL	1
3	30209	Tip, Male, Pioneer, 1/2"	2
4	40077	Washer, Motor, 1 1/4" ID x 1 7/8" OD	2
5	92063	Sprocket, Motor	2
6	92066	Motor, Hydraulic	2
7	90310	Hose, 1/2" x 96", 10MBX-8MP	2
8	B5C0844P	Bolt, 1/2" x 2 3/4", Pltd.	8
9	LNC08	Nut, Nylock, 1/2"	8
10	FW10P	Washer, Flat, 5/8", Pltd.	2
11	FW08P	Washer, Flat, 1/2", Pltd.	8

5.2 Cylinder Hydraulics

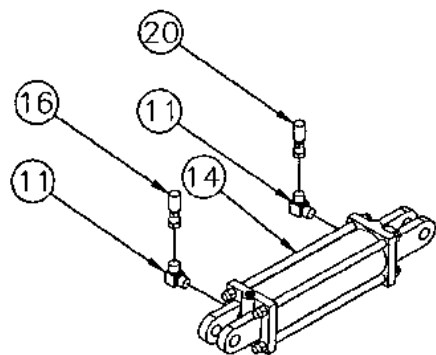
Item	Part No.	Description	Quantity
1	E4726	Tee, Double, Hydraulic	1
2	30198	Hose, 3/8" x 18", 6FJX-6MP	1
3	30199	Hose, 3/8" x 18", 6MP-8MPX	1
4	30200	Fitting, Plug, 8MB	3
5	30201	Hose, 3/8" x 44", 8FJX-6MP	1
6	30202	Fitting, Hyd, 6MP-8MJ90	1
7	30203	Fitting, Hyd, 4MP-6MJ90	1
8	30209	Tip, Male, Pioneer, 1/2"	2
9	30210	Clamp, Line, Oil	4
10	30211	Fitting, 8MB-8MJ90	3
11	30212	Fitting, 8MP-8MJ90	5
12	30313	Fitting, 8MJT	1
13	90117	Cylinder, 3" x 8", 1 1/4" Rod	1
14	90118	Cylinder, 3" x 10", 1 1/4" Rod	1
15	90120	Cylinder, 3 1/2" x 13", 1 1/2" Rod	1
16	90272	Hose, 3/8" x 24", 8FJX-8FJX	1
17	90301	Hose, 3/8" x 120", 8MP-8FJX	2
18	90305	Hose, 3/8" x 30 1/2", 6MP-8FJX	2
19	90308	Hose, 3/8" x 50", 8FJX -6MP	1
20	90313	Hose, 3/8" x 18", 8FJX-8FJX	2
21	90691	Valve, Check, Pilot, PC-50	1
22	92089	Valve	1
23	LNC06	Nut, Nylock, 3/8"	2
24	LNC05	Nut, Nylock, 5/16"	2
25	LNC04	Nut, Nylock, 1/4"	2
26	FW05P	Washer, Flat, 5/16", Pltd.	2



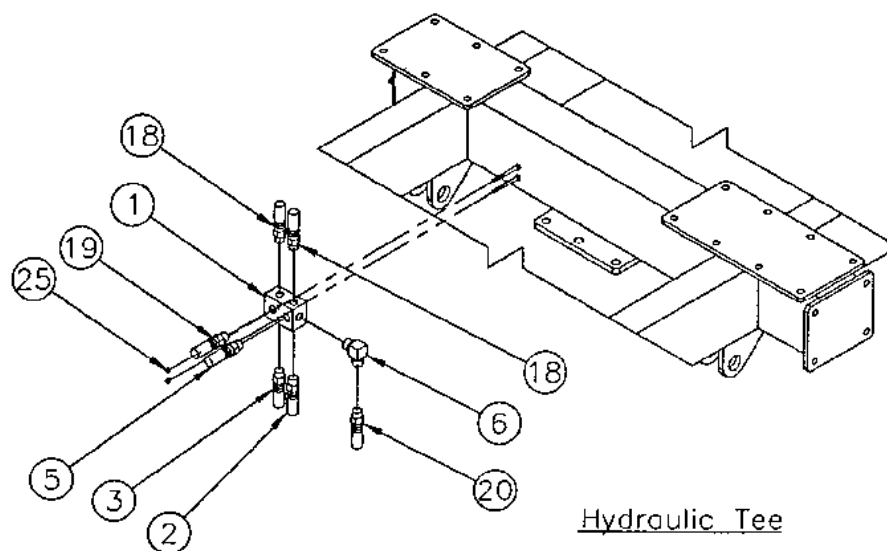
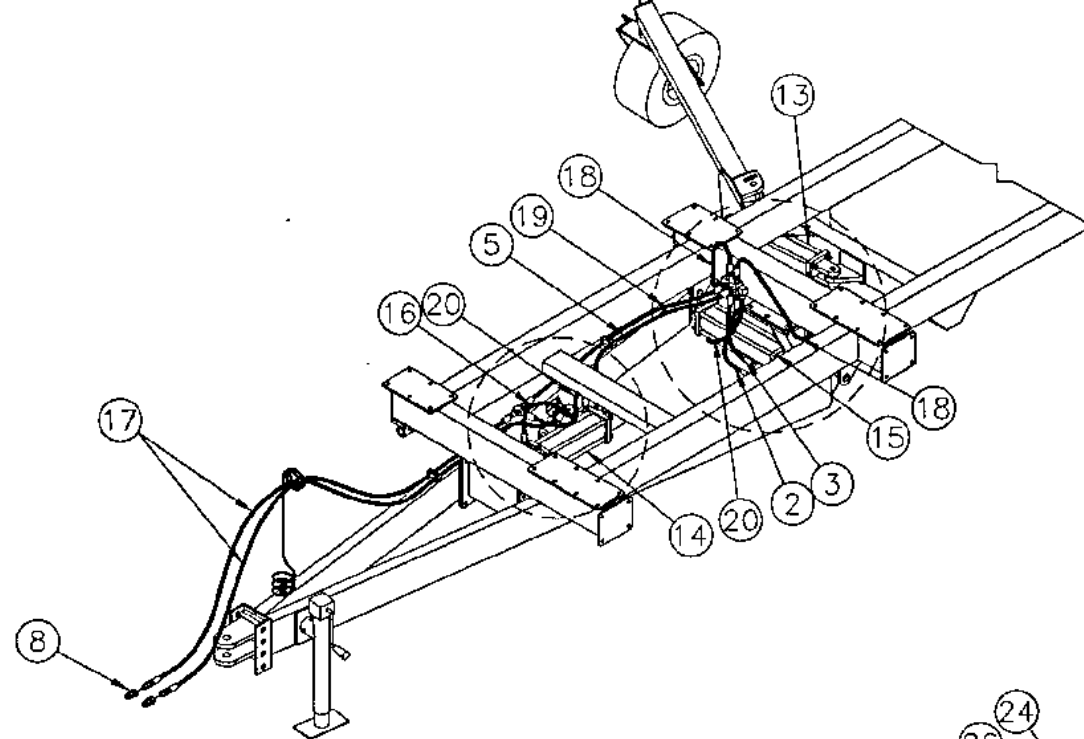
Castor Wheel Cylinder



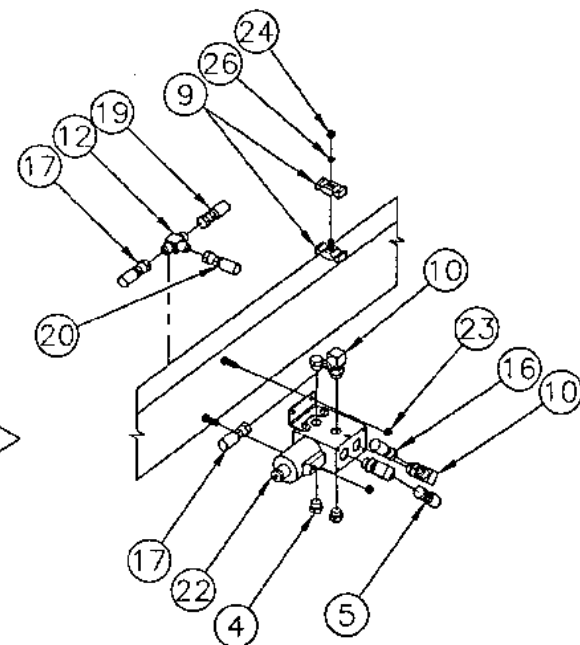
Fork Cylinder



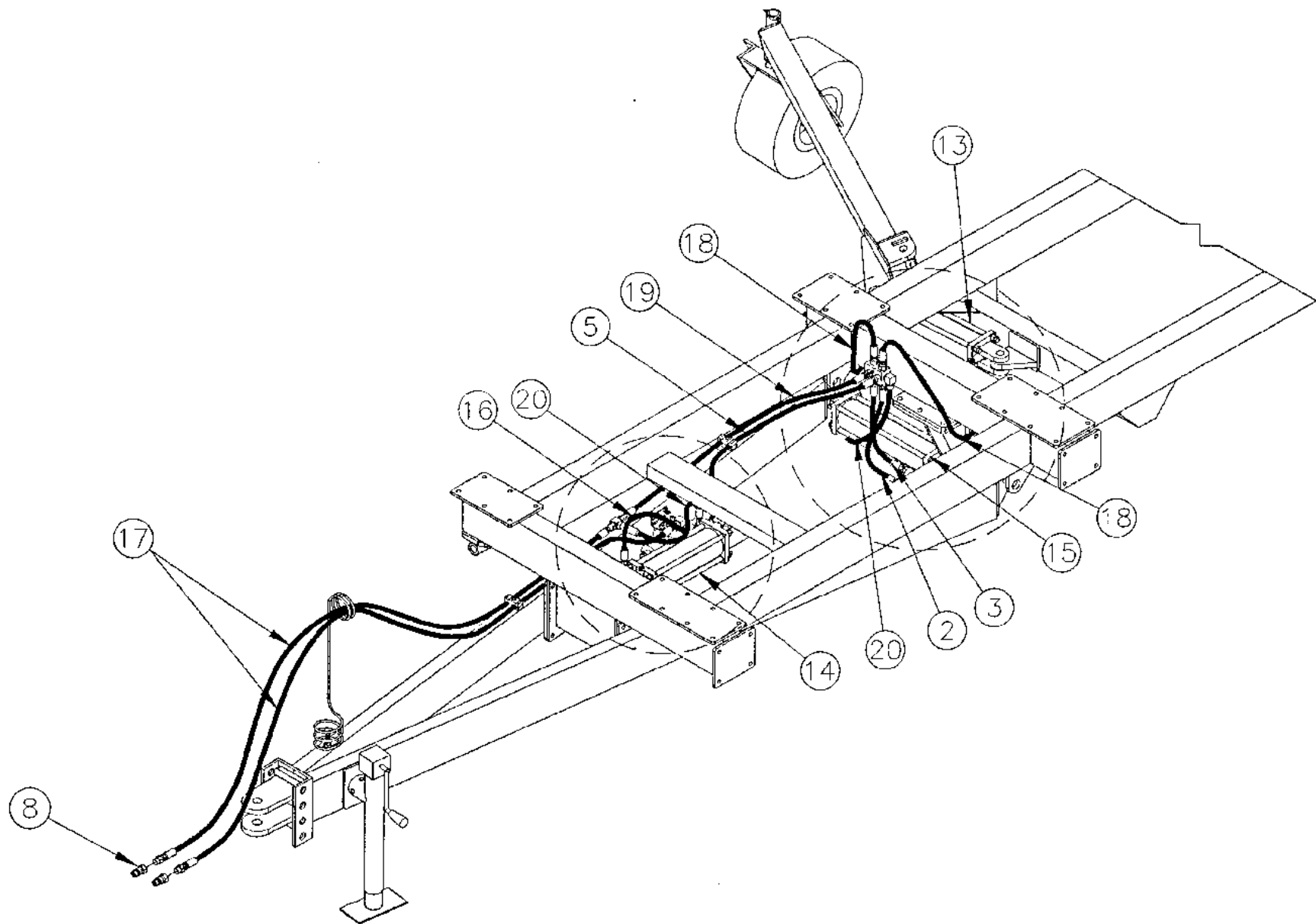
Deck Cylinder



Hydraulic Tee



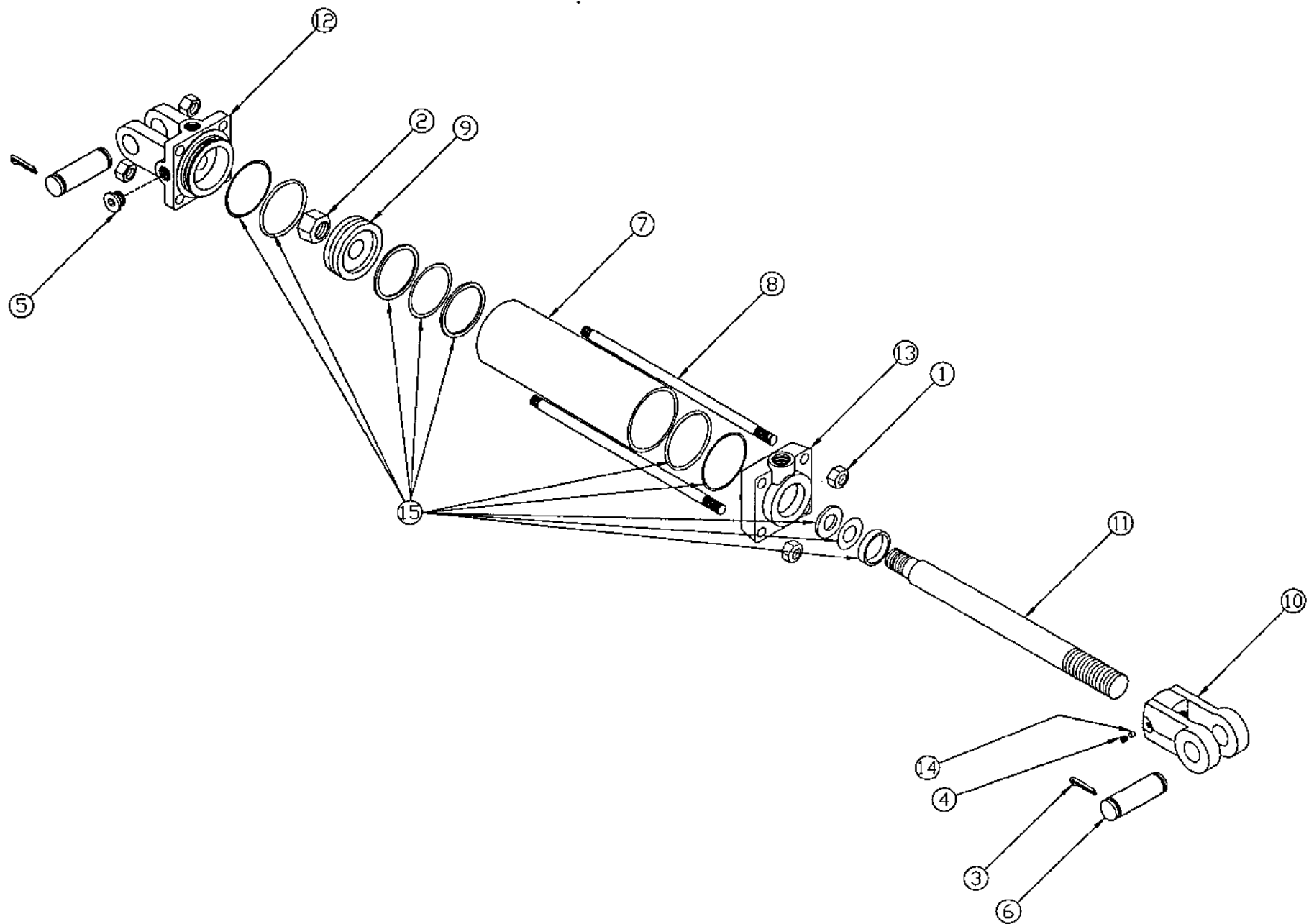
Solenoid



6.0 Cylinders

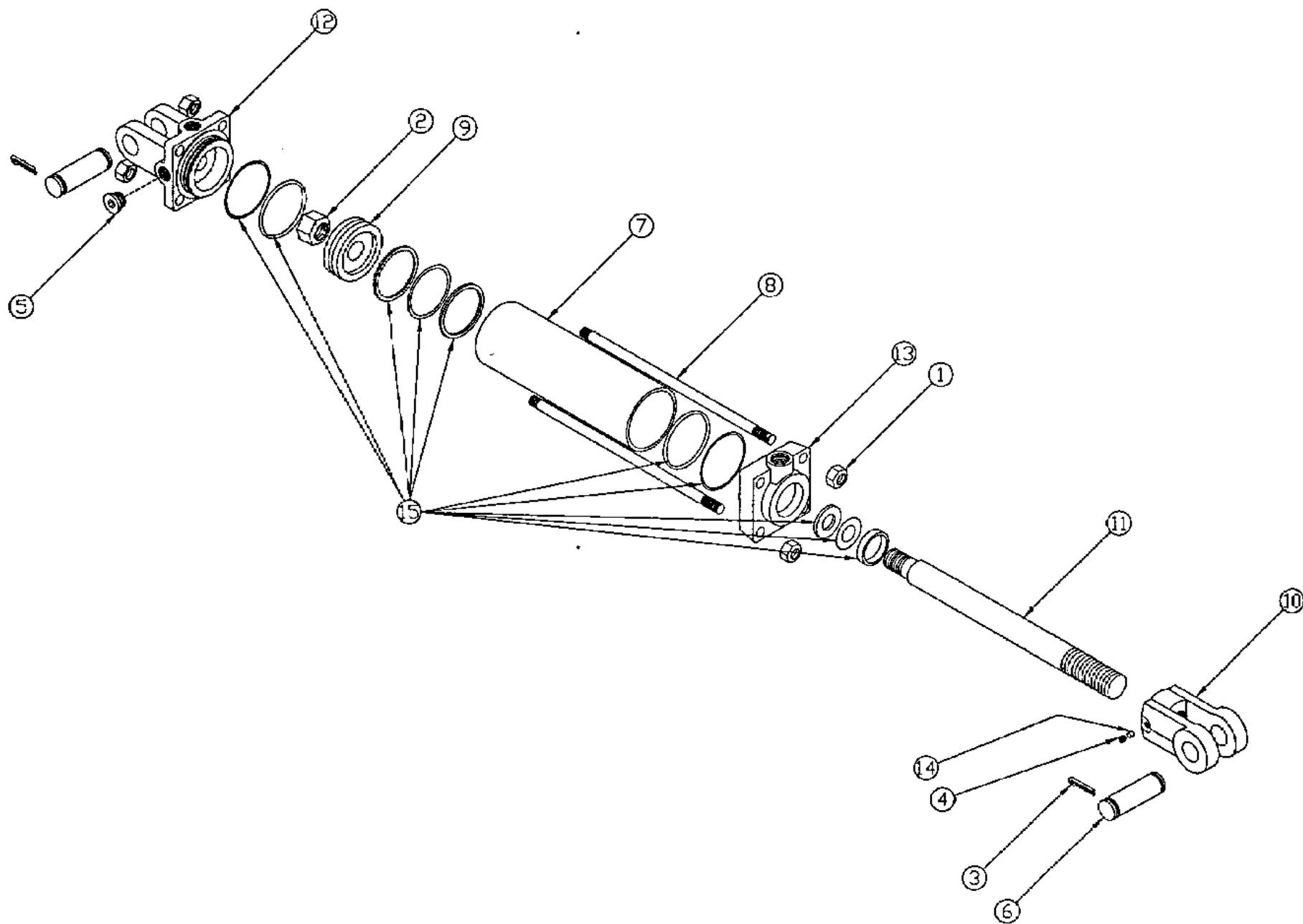
6.1 3 x 8, 1 1/4 Rod

Item	Part No.	Description	Quantity
1	30235	Nut, Hex, 1/2" UNC Grade 5	8
2	30237	Nut, Hex, 1"-14 UNS Grd 5 Phosphate	1
3	30238	Cotterpin, Hamerlock, 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	30243	Tube, Cyl., 3" x 8", H6138	1
8	30247	Rod, Tie, 1/2" x 8", H6678	4
9	30250	Piston, 3" Dia, H6880	1
10	30253	Rod, Clevis, 1 1/4", 1" Pin	1
11	30254	Rod, 1 1/4" x 8"	1
12	30256	Cap, Clevis, 3" NPTF	1
13	30257	Cap, Rod, 3" x 1 1/4" NPTF	1
14	30261	Lock, Thread, Nylon	1
15	30262	Kit, Repair, 3" Cyl.	1



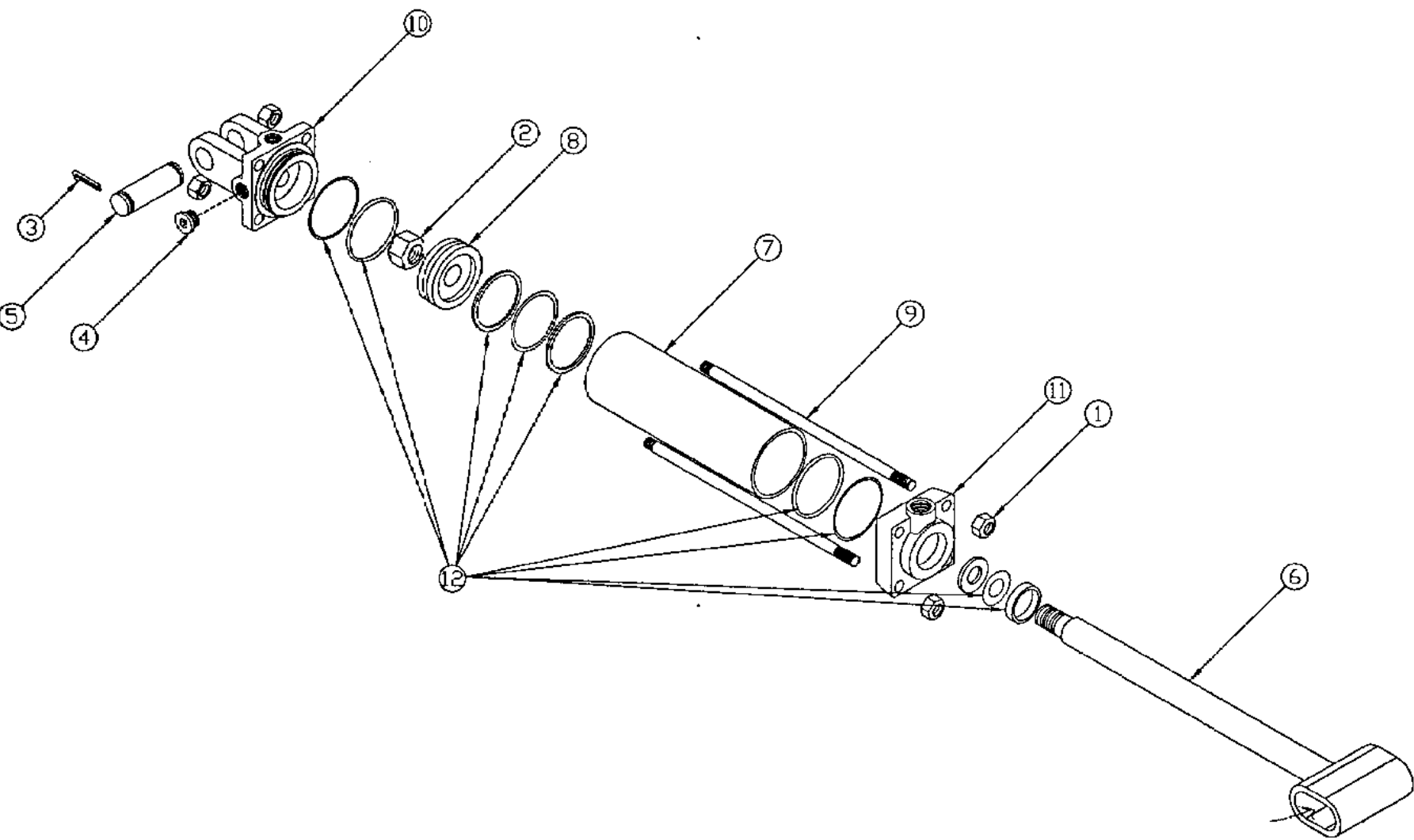
6.2 3 X 10, 1 1/4 Rod

Item	Part No.	Description	Quantity
1	30235	Nut, Hex, 1/2" 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	30244	Tube, Cyl., 3" x 10", H6140	1
8	30248	Rod, Tie, 1/2" x 8", H6680	4
9	30250	Piston, 3" Dia, H6880	1
10	30253	Rod, Clevis, 1 1/4", 1" Pin	1
11	30256	Cap, Clevis, 3" NPTF	1
12	30257	Cap, Rod, 3" x 1 1/4" NPTF	1
13	30260	Rod, 1 1/4" x 10"	1
14	30261	Lock, Thread, Nylon	1
15	30262	Kit, Repair, 3" Cyl.	1



6.3 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



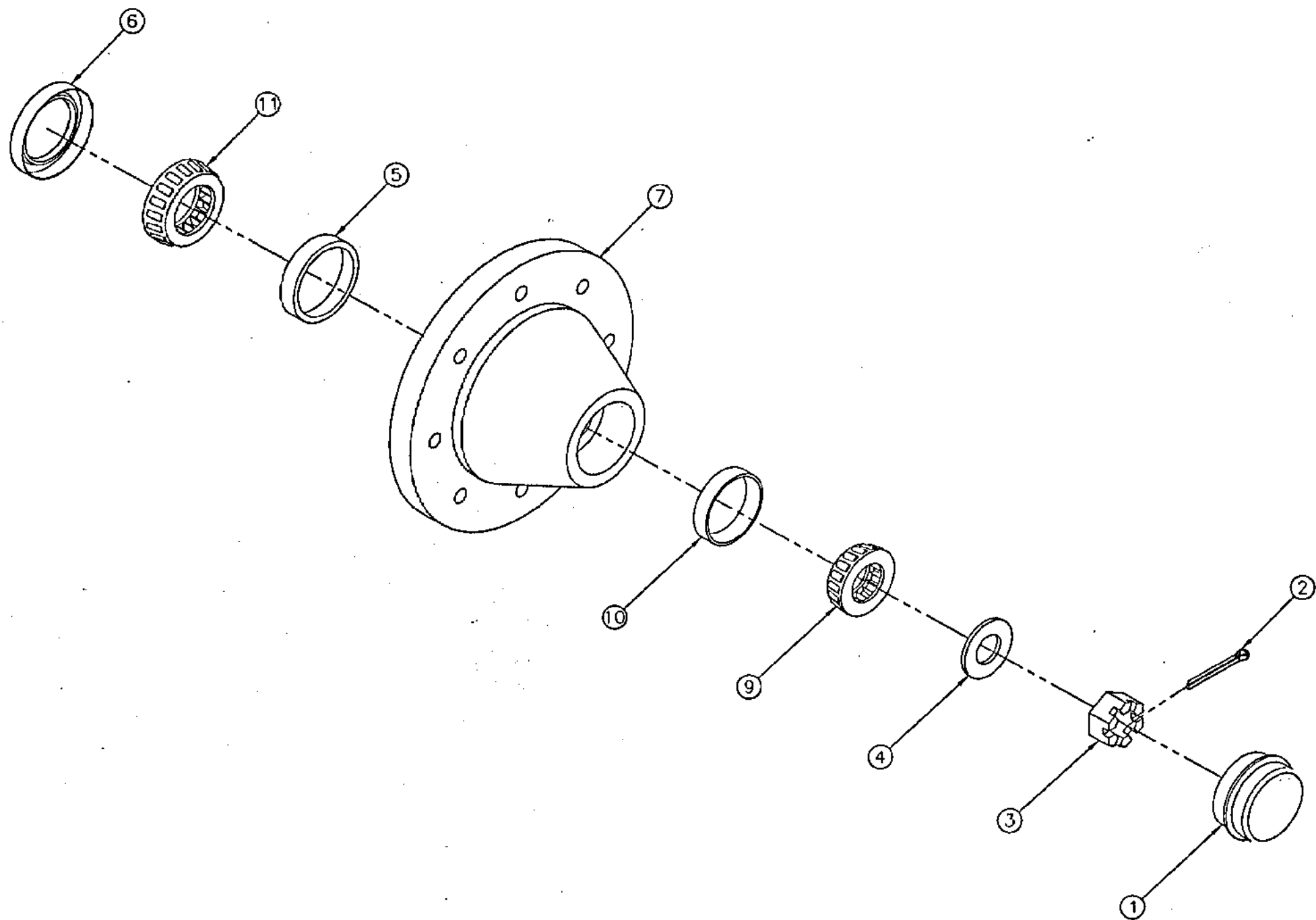
Save as
Pin File
Pin 40008

7.0 Hub

7.1 Tandem Wheel

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

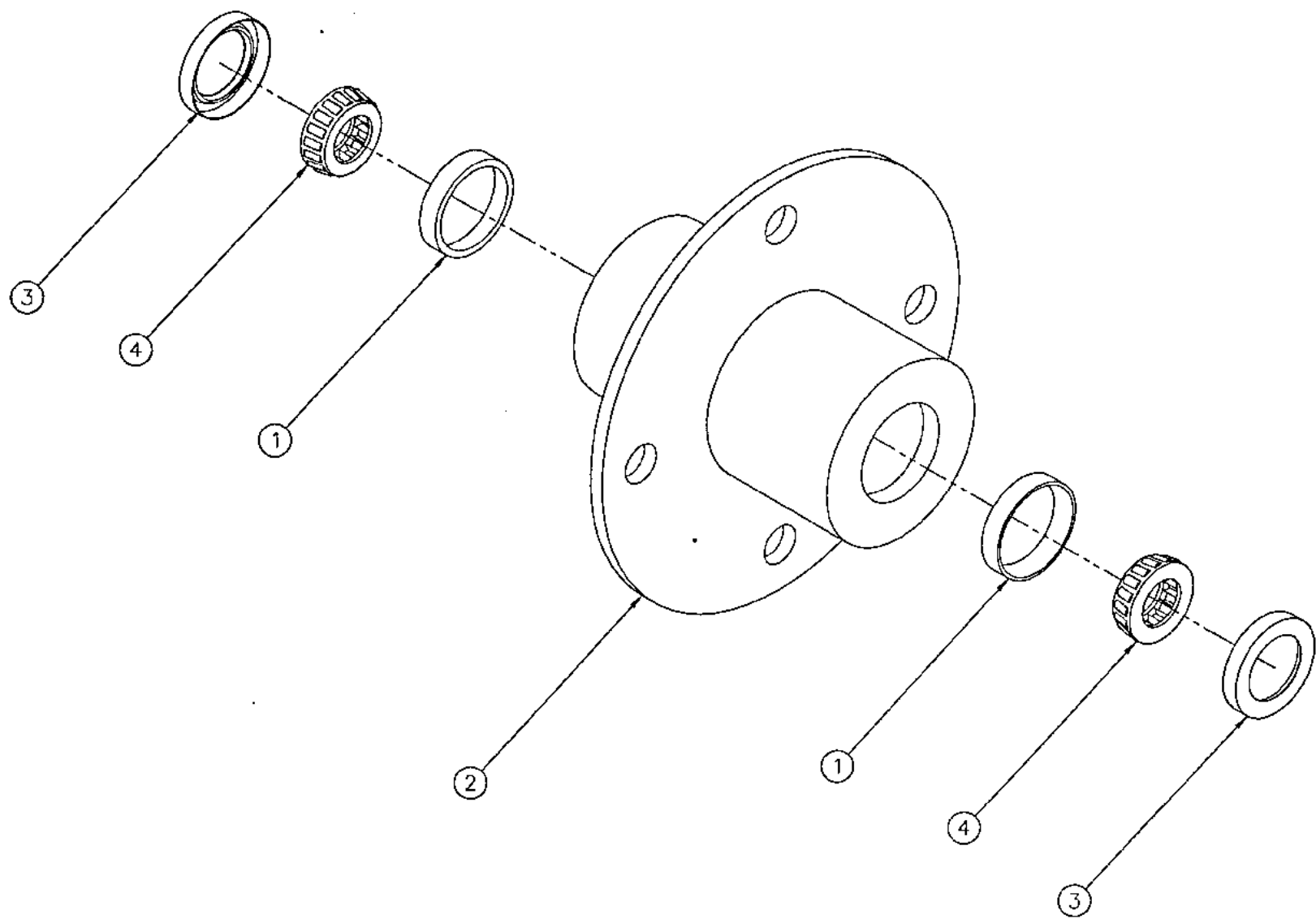
Note: Wheel bearings should be repacked yearly.



7.2 Castor Wheel

Item	Part No.	Description	Quantity
1	30232	Race	2
2	91073	Hub, 4-Bolt	1
3	91093	Seal, Grease	2
4	91113	Bearing	2

Note: Wheel bearings should be repacked yearly.

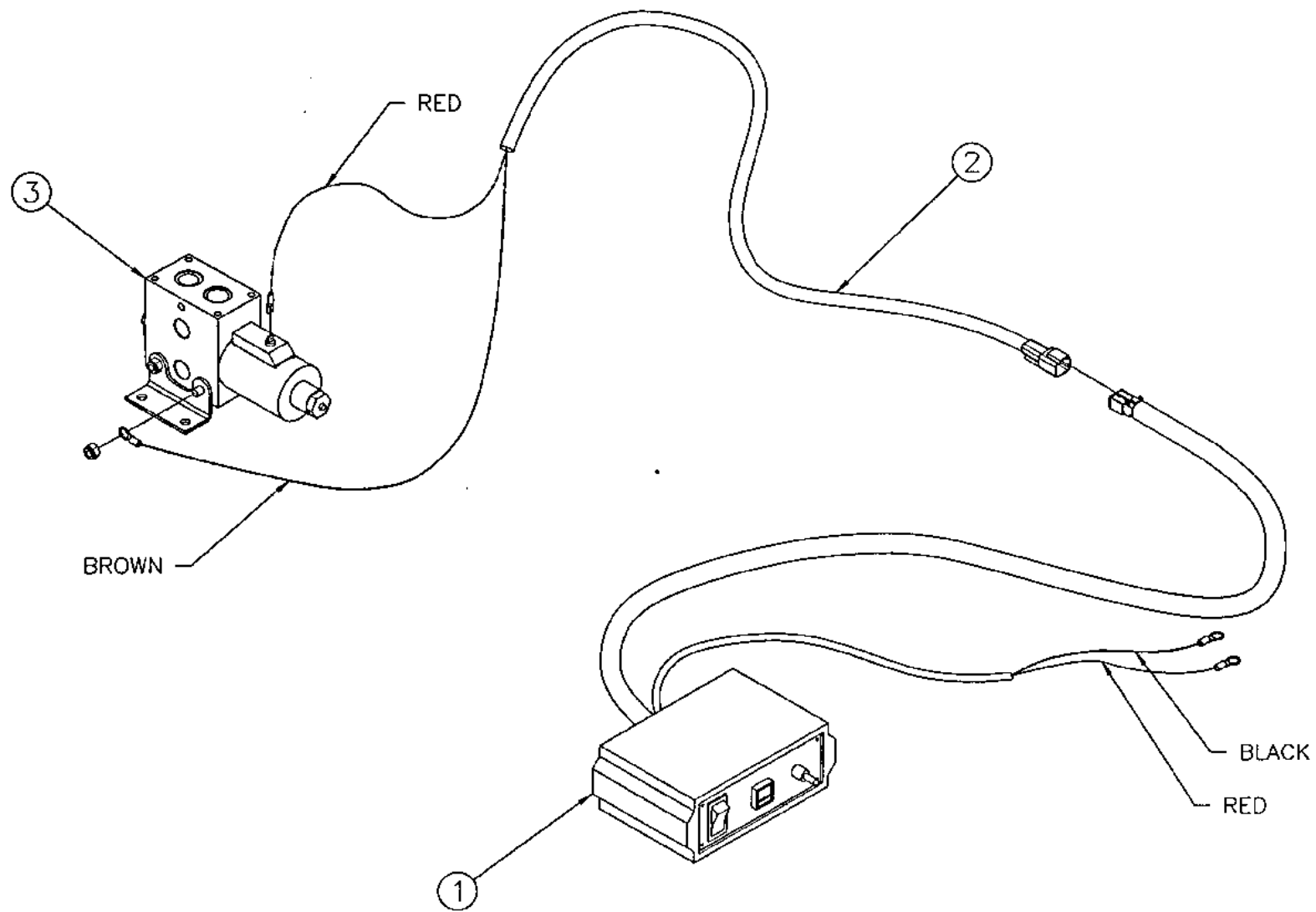


8.0 Electrical

8.1 Electrical Schematic

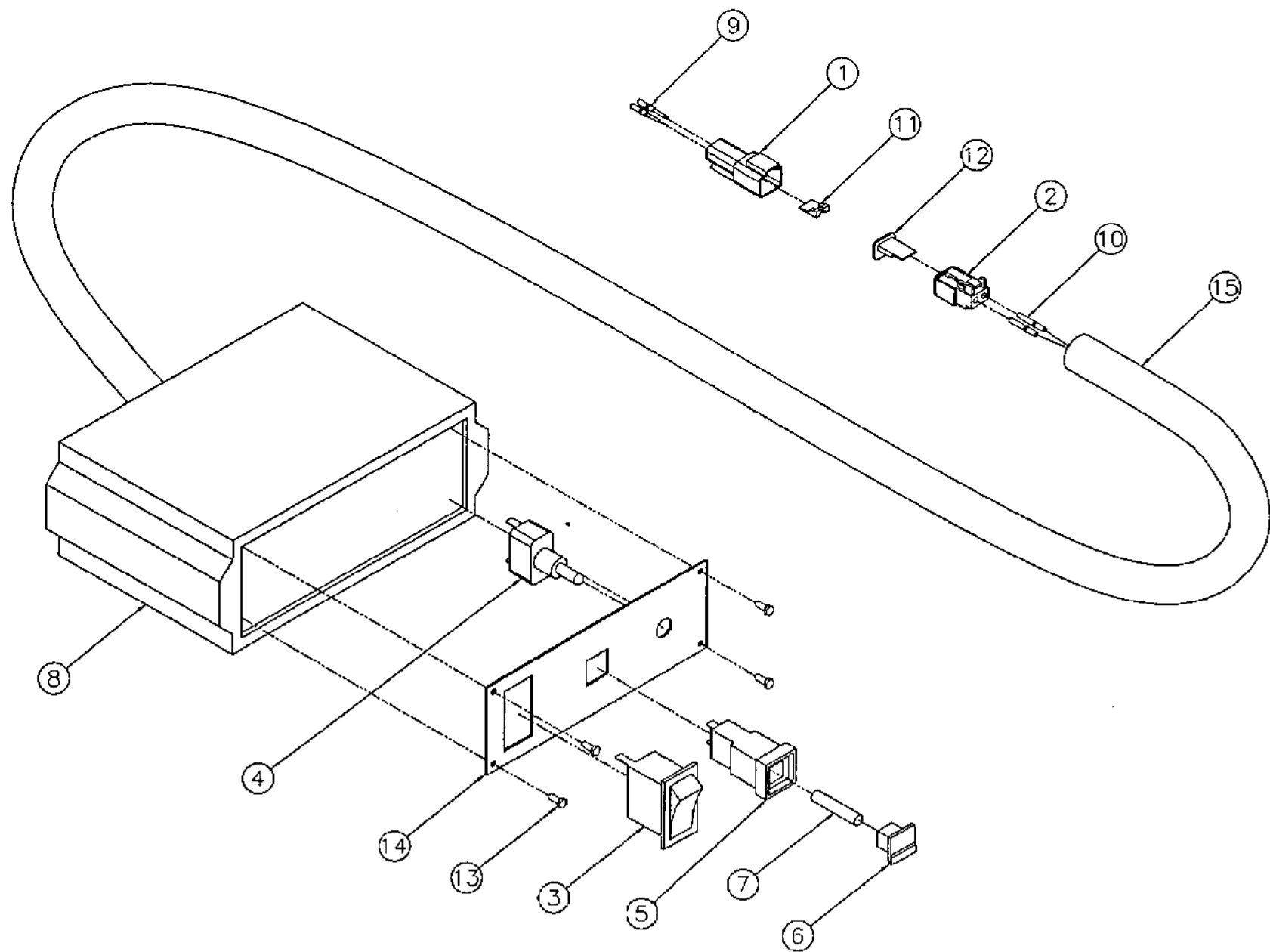
Item	Part No.	Description	Quantity
1	40102 40102	Box, Control, 700BM (1997)	1
2	92078	Harness, Extension, 5&7BM	1
3	92089	Valve	0

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	92103	Electrical, Plug Male	1
2	92105	Electrical, Plug Female	1
3	92107	Switch, On/Off	1
4	92136	Switch, Toggle	1
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	2
10	92158	Socket, Female Plug	2
11	92159	Wedge, Locking, Male, Plug	1
12	92160	Wedge, Locking, Female Plug	1
13	92164	Screw, Tapping, #4 x 1/4	4
14	92221	Plate, Face, Box, Control	1
15		Wiring, Box, Control, 6 ft	1



9.0 Specifications

Weight	Approximately 3,200 lbs (1,450 kg)
Total Length	31'7"
Bed Length	27"
Total Width	8'
Bed Width	2'
Total Height	9'2"
Bed Height	3'3"
Ground Clearance	13 1/2"
Maximum Capacity	5 – 5 Ft. Bales
Chain & Sprocket	Heavy Duty ASA 2062, 1 1/2 Pitch
Tires	Goodyear, 11L-15FI, 12 Ply Farm Highway Service
Undercarriage	2 – 2 wheel oscillating tandems
Horsepower Required	60 Horsepower
Hydraulic Outlets	2
Hydraulic Pressure	2500 psi.(17240 KPa)