# HIGHLINE MFG.

# **BALE MOVER 500**

198

# Assembly-Operator Parts Manual

# Memo

To:

All Departments

From:

Shane Tulik

CC:

Mario Piche

Date:

12/23/98

Re:

Manitoba Highways and Transportation - Lighting and Marking

As discussed previously, legislation was passed in Manitoba requiring lighting and marking on all agricultural equipment. This legislation applies to all equipment manufactured on or after January 1, 1998 and must be adhered to for all machines sold into Manitoba. The following Highline machines are affected by this legislation:

# 1 500BM Balamover /

- 2 700BM Balemover
- 1400BM Balemover
- Balepro Hitch
- 5. Topgun
- 6. BP6800 Baleprocessor
- 7. BP7800 Baleprocessor
- 8. XL6084 Rockpicker
- XL78 Rockpicker.

I would like to again express the need to address this situation immediately by supplying either the dealers or the end user with the required lighting and marking in order to meet the Manitoba legislation. The details of supplying the safety kits will be shared by the sales, production, and customer service departments. These measures will supply the equipment owners with the necessary safety equipment and will allow us to retroactively meet and exceed the required legislation by following ASAE S279.10. The following light kits can be found in CMS:

Model	Light Kit Part No.	Other Requirements
SCOOL Balemover	40164	refectors
700BM Balemover	40164	reflectors
1400BM Balemover	40169	reflectors
Balepro Hitch	Same requirement as BM	reflectors
Topqun	48089	reflectors
BP6800 Baleprocessor	48101	reflectors
BP7800 Baleprocessor	48103	reflectors
XL78 Rockpicker	To be completed	reflectors
XL6084 Rockpicker	To be completed	reflectors

# HIGHLINE WARRANTY IS **INVALID** IF THE WARRANTY REGISTRATION FORM IS NOT SIGNED AND RETURNED

THE WARRANTY REGISTRATION FORM IS ENCLOSED WITH THE MANUAL

PLEASE COMPLETE AND MAIL WHEN UNIT IS SOLD

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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:

1st year Warranty covers Parts & Labor

•2nd year Warranty covers Parts Only

- Warranty registration must be submitted to HIGHLINE Mfg. Inc. within 30 days of purchase.
- Highline Mfg Inc. is not liable for any damages to this equipment resulting from use of this
  equipment that is inconsistent with this manual and such is not covered under this warranty.
- Warranty will be void, and Highline Mfg. Inc.will not be liable in any way, if the equipment is used for any other purpose then the intended agricultural application.
- All warranty service must be handled through an authorized HIGHLINE Mfg. Inc.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.
- Warranty will be void if any component of this equipment is altered or modified in any way, unless written permission is given by HIGHLINE Mfg. Inc.
- Equipment used for rental, custom work, industrial or construction use will not be warranted by Highline Mfg. Inc.
- HIGHLINE Mfg. Inc. will not assume any responsibility for any damage occurring to equipment which this equipment may be attached.
- · Warranty terms and conditions are subject to provincial and state legislation.
- Warranty is limited to the Purchase price paid for the equipment, up to the Manufacturers suggested retail price. ANY LIABILITY RESULTING FROM THE WORKMANSHIP OF THIS EQUIPMENT is limited to the purchased price paid. Highline Mfg. Inc. assumes no responsibility whatsoever for liability resulting from the misuse or improper operation and maintenance of this equipment.

HIGHLINE Manufacturing

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#### President's 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 parts 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 needs.

Raymond Bussiere

Ray & Busse

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 33'1". 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

Enclosed, find a 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.** 

#### 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 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.

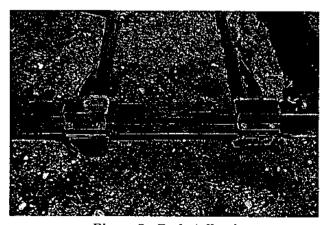


Figure 2. Fork Adjusting

#### 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 maintain equal tire pressure. The operating tire pressure should be 90 psi
- · Periodically 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**



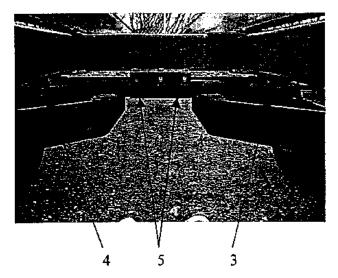
Grease No	Description	Frequency
1	Arm, Pivot, Right	Daily

Figure 3. Pivot Arm Grease Location

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Francisco
27-847 F. T.

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

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

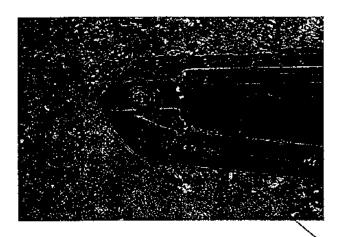


Figure 6. Rear Sprocket Pin

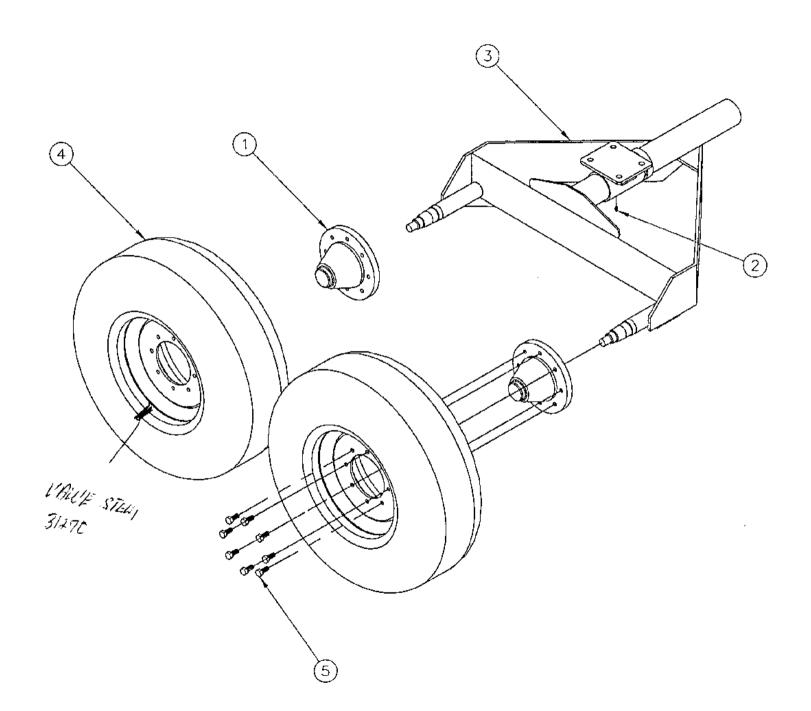
Grease No	Description	Frequency
6	Pin, Sprocket, Rear, Left,	Monthly
7	Pin, Sprocket, Rear, Right,	Monthly

## 4.0 Parts Information

#### 4.1 Tandem

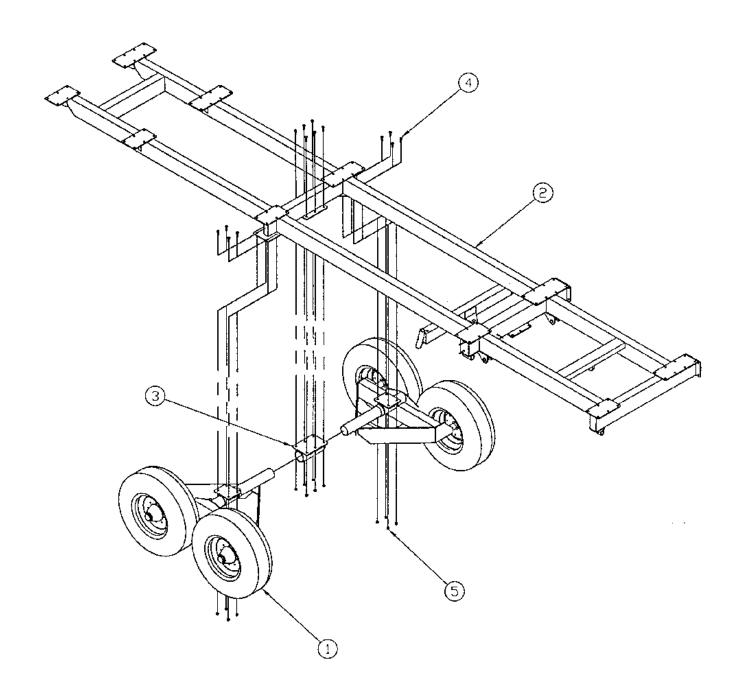
Item	Part No.	Description	Quantity
1	30102	Hub, 8 Bolt, 5000 lbs, EM5500	4
2	30207	Zerk, Grease, 1/4-28	2
3	40108	Beam, Walking, Main	2
4	40122	Assembly, Wheel, Complete	4
5	91061	Bolt, Wheel, 9/16"	32
6	31470	865P, STEIN, WILLIE 1675, 144,130	Н

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	40481	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



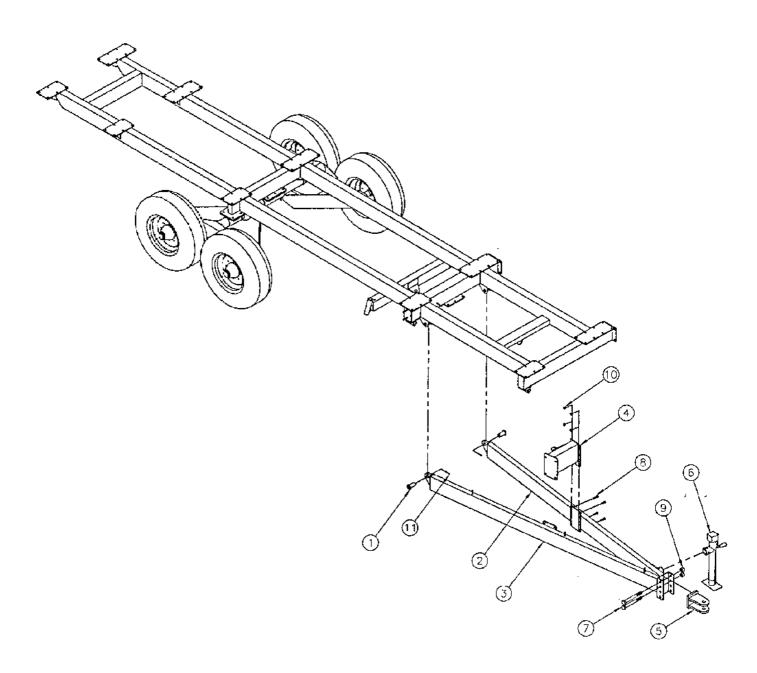
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#### 4.3 Hitch

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	40485	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.



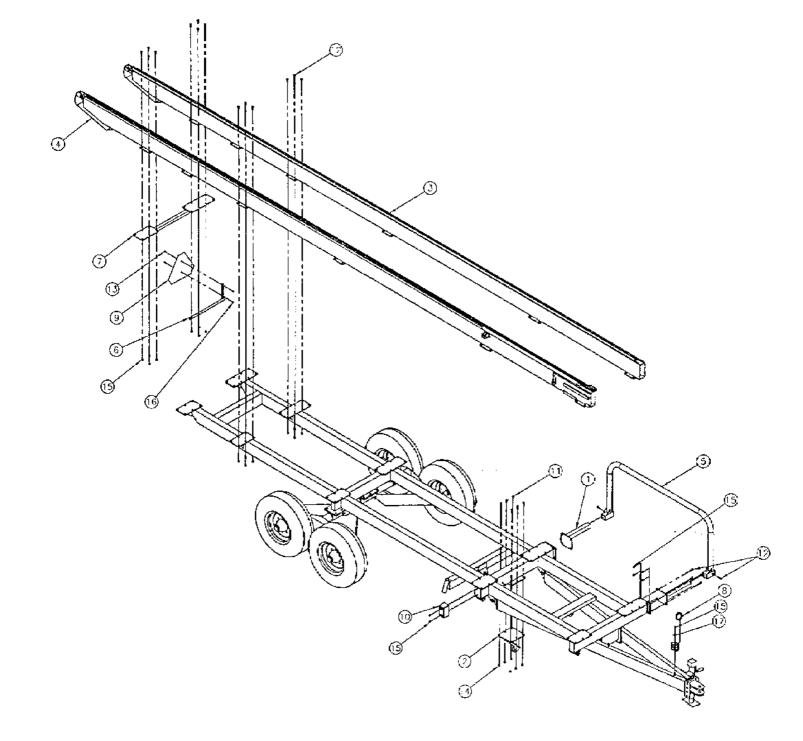
#### 4.4 Rail and Crossmember Subframe

Item	Part No.	Description	Quantity
1	40085	Arm, Divider, Bale	2
2	40140	Bracket, Cylinder	1
3	40479	Rail, Left	i
4	40480	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	B5C1032P	Bolt, 5/8" x 2", 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.

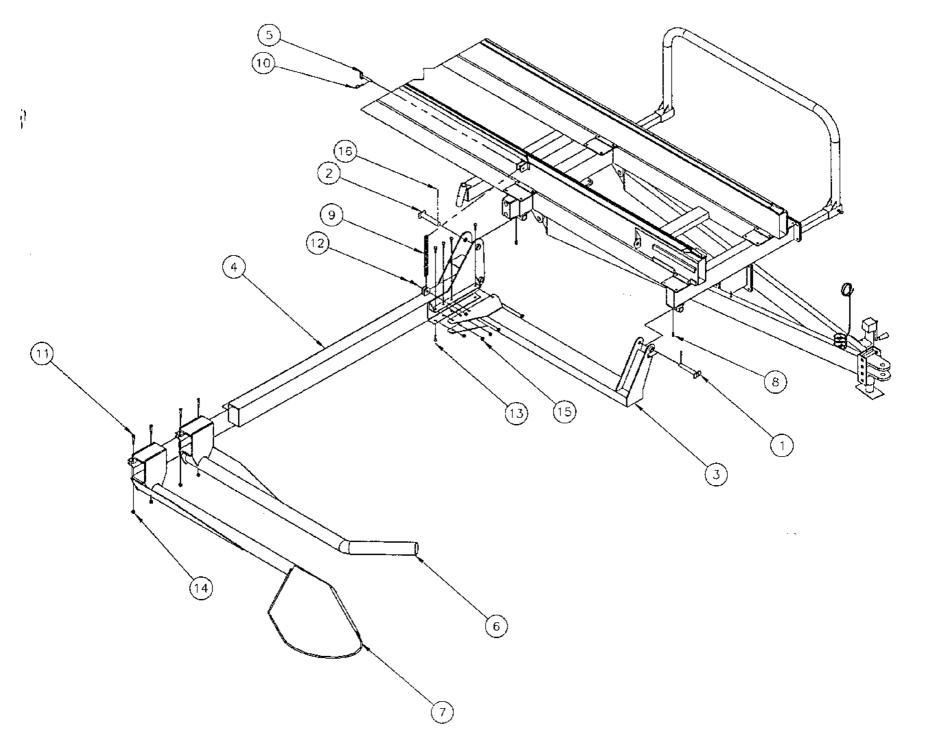
Install deck cylinder in the fully closed position between the hitch and deck lug. Lift hitch until front of the bale mover is fully supported then tighten all bolts.



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#### 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	40149	Arm, Slide, Pivot, Right	1
5	40019	Pin, Lock, Safety	1
6	40151	Fork, Right	1
7	40152	Fork, Right, 1/4 Turn	1
8	30207	Zerk, Grease, 1/4-28	2
9	30217	Chain, Transport, Bale Mover	1
10	91608	Hairpin, 1/8" x 2 1/2"	1
11	BFC1248P	Bolt, 3/4" x 3", Pltd.	4
12	B5C1032P	Bolt, 5/8" x 2", Pltd.	1
13	B5C1024P	Bolt, 5/8" x 1 1/2", Pltd	8
14	LNC12	Nut, Nylock, 3/4"	4
15	LNC10	Nut, Nylock, 5/8"	9
16	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:

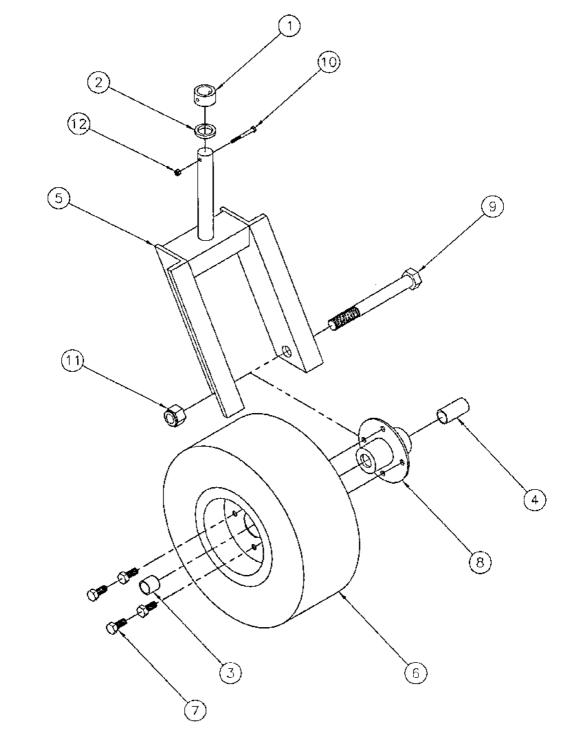
Chain is fed from the back of the machine.

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.

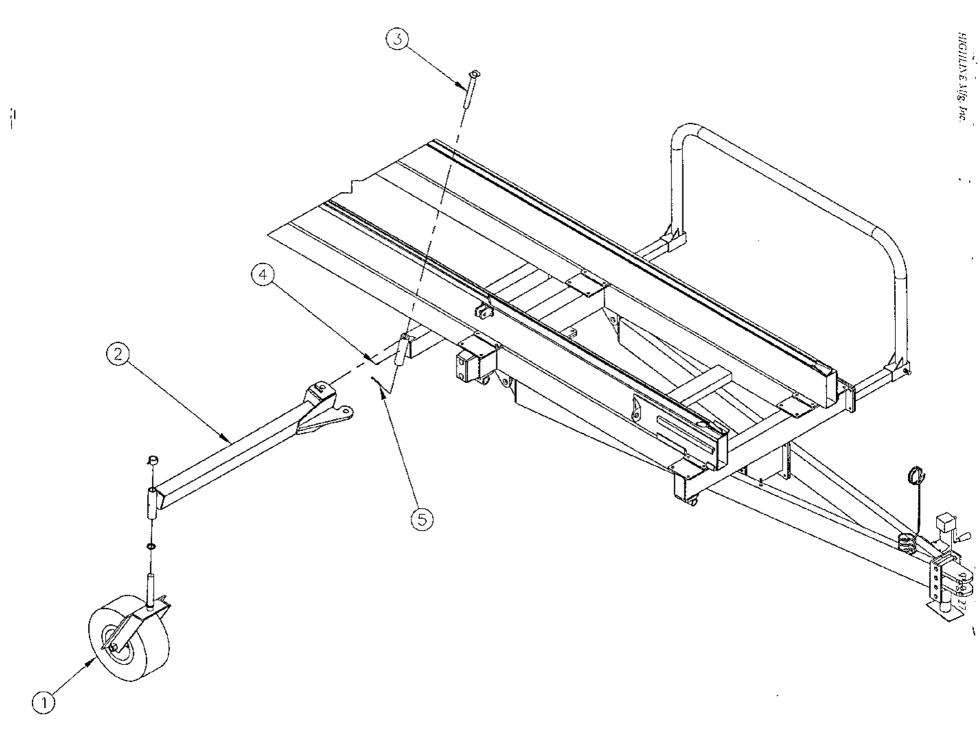
#### 4.7 Castor Wheel

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

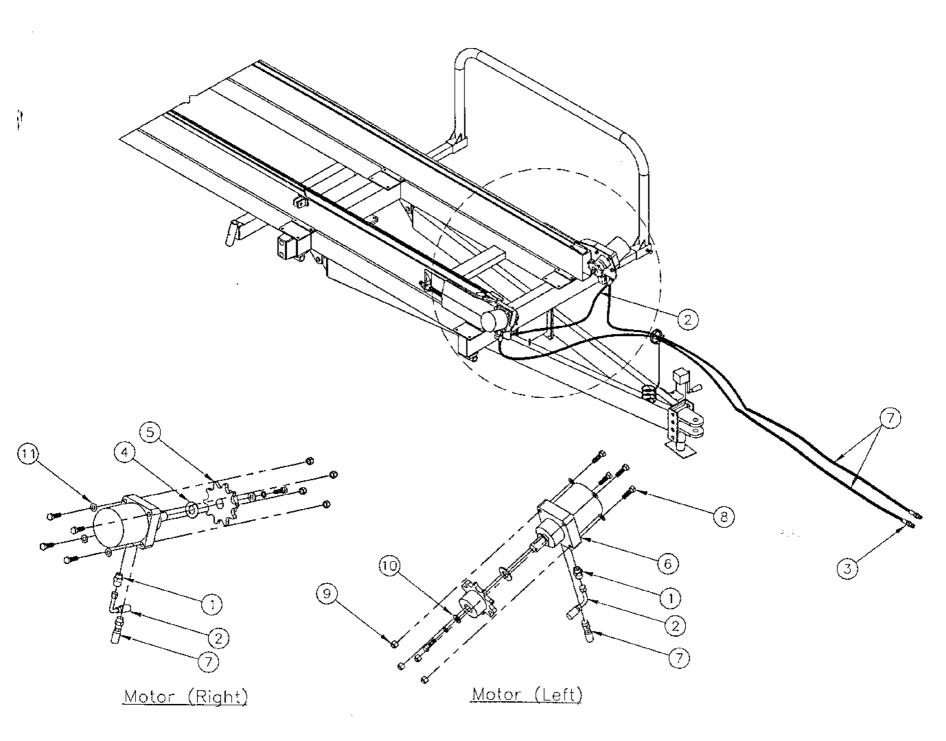
Item	Part No.	Description	Quantity
1	40117	Wheel, Castor	1
2	40483	Arm, Support	1
3	45025	Pin, Wheel, Support	1
4	30207	Zerk, Grease, 1/4"-28	1
5	CP0440P	Cotterpin, 1/4" x 2 1/2"	1



# 5.0 Hydraulics

## 5.1 Motor Hydraulics

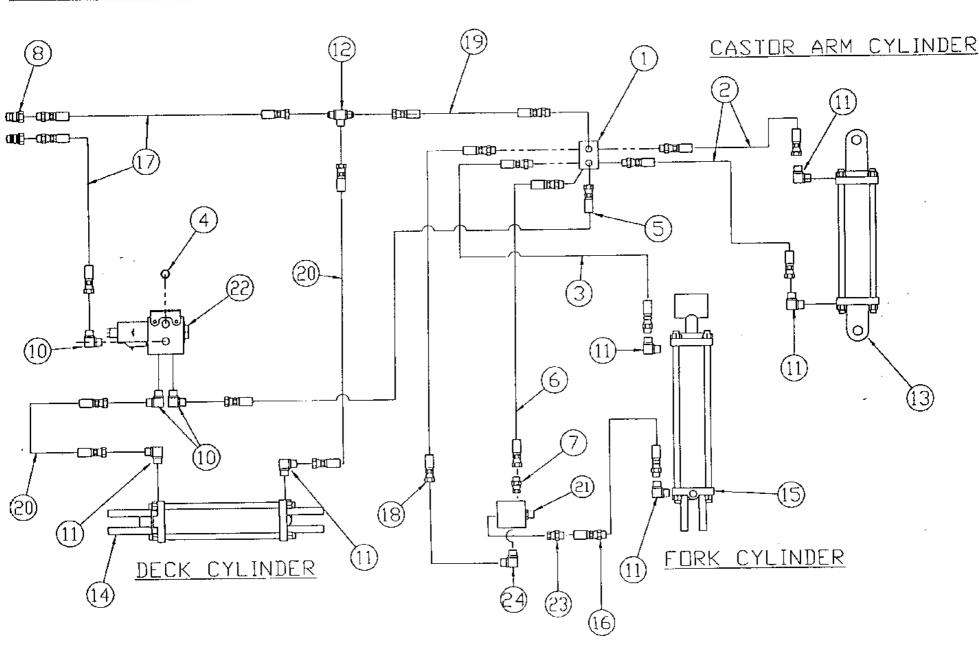
Item	Part No.	Description	Quantity
1	30204	Fitting, Hyd, 10MB-8MJ	2
2	30205	Hose, 1/2" x 57 ", 8FJ90TL	1
3	30209	Tip, Male, Pioneer, 1/2"	2
4	40077	Washer, Motor, 1 1/4" ID x 1 7/8" OD	2
5	92063	Sprocket, Motor	2
6	92066	Motor, Hydraulic	2
7	90310	Hose, 1/2" x 96", 10MBX-8MP	2
8	B5C0844P	Bolt, 1/2" x 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	31269	Hose, 3/8" x 42-1/2", 8FJX-6MP	2
3	32055	Hose, 3/8" x 19", 6MP-8FJX	1
4	30200	Fitting, Plug. 8MB	3
5	30201	Hose, 3/8" x 44", 8FJX-6MP	1
6	32954	Hose,Hyd, 3/8 x 16, 6MP-6FJX	1
7	30479	Hyd,Fit,Adapter, 4MB-6MJ	1
8	30209	Tip, Male, Pioneer, 1/2"	2
9	30210	Clamp, Line, Oil	4
10	30211	Hyd,Fit, 8MB-8MJ90	3
11	30212	Fitting, 8MP-8MJ90	6
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	32963	Hose, 3/8" x 15", 8FJX	ì
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	31271	Valve, Check, Pilot	1
22	92089	Valve	1
23	32033	Hyd, Fit, Adapter, 6MB-8MJ	1
24	30480	Hyd,Fit,Elbow,6MB-8MJ90	1
	LNC06	Nut, Nylock, 3/8"	2
	LNC05	Nut, Nylock. 5/16"	2
	LNC04	Nut, Nylock, 1/4"	2
	FW05P	Washer, Flat, 5/16", Pltd.	2

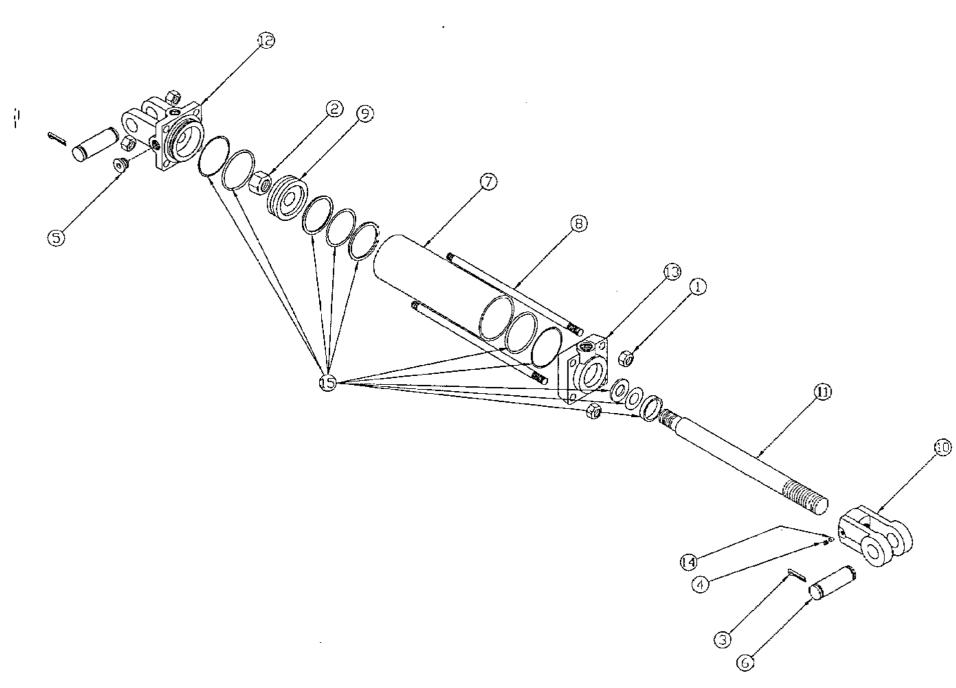
# SCHEMATIC DRAWING



# 6.0 Cylinders

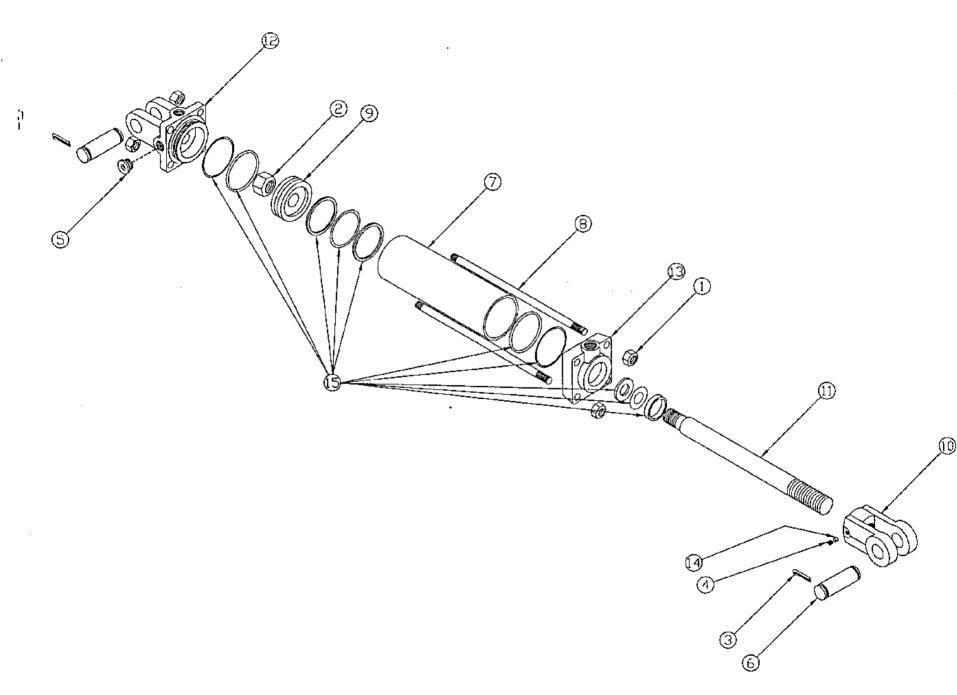
# 6.1 3 x 8, 1 1/4 Rod

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	ì
15	30262	Kit, Repair, 3" Cyl.	1



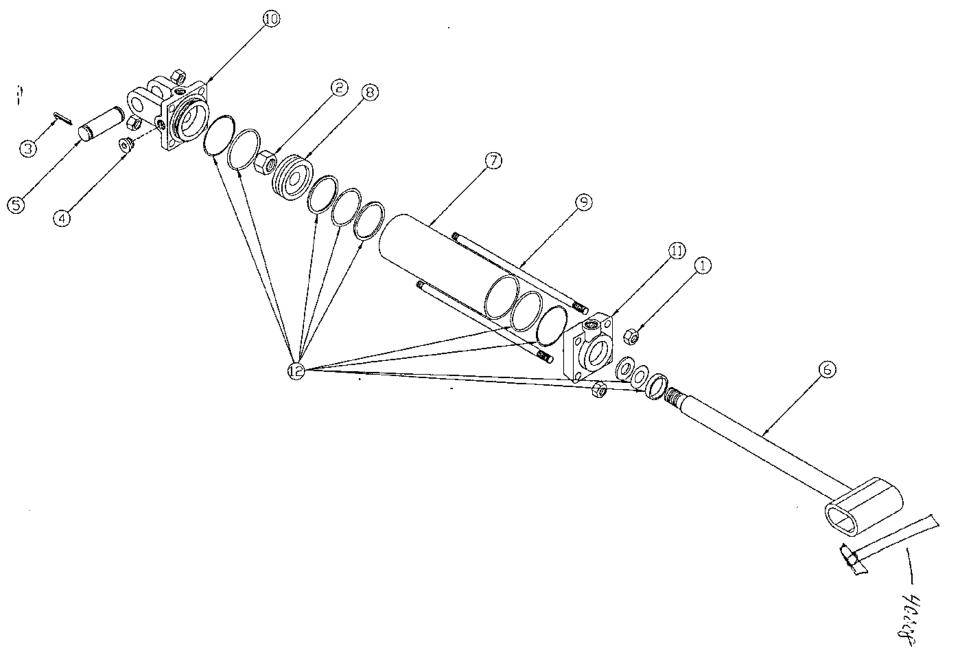
# 6.2 3 X 10, 1 1/4 Rod

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, 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	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, Hamerlock, 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



#### 7.0 Hub

## 7.1 Tandem Wheel

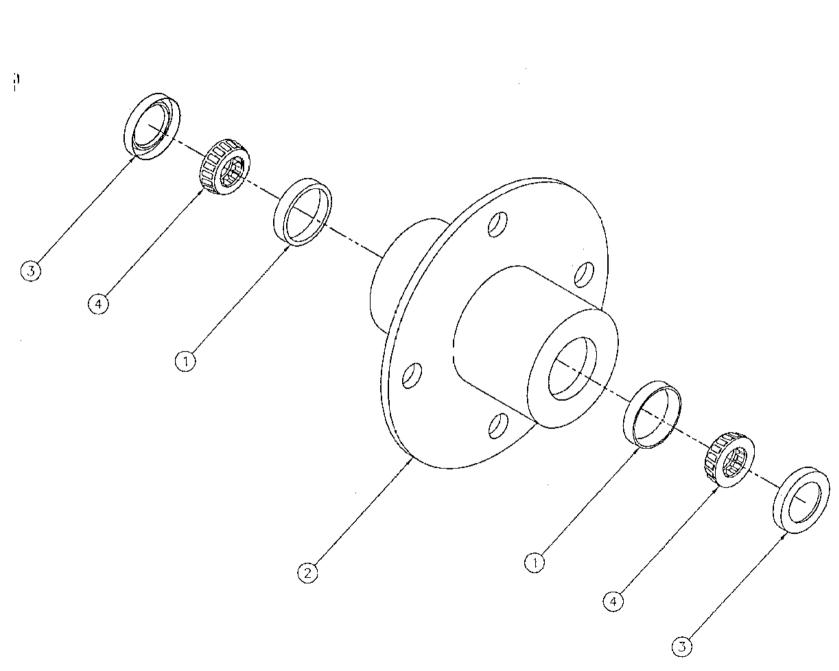
Item	Part No.	Description	Quantity
1	30220	Cap, Dust	1
2	30221	Cotterpin, 3/16" x 1 3/4"	1
3	30222	Nut, Slotted, 1 1/4"	1
4	30223	Washer, Flat, 1" SAE	1
5	30226	Race, Inner	1
6	30228	Seal, Grease	1
7	30229	Hub, 8-Bolt	1
8	91111	Bearing, Outer	1
9	91131	Race, Outer	1
10	91133	Bearing, Inner	l

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.



HIGHLINE Mfg. Inc.

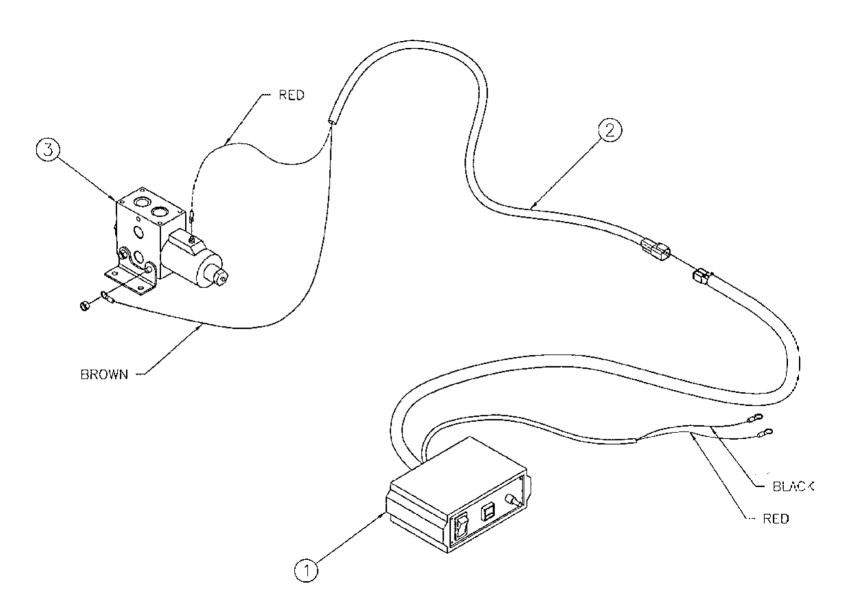
#### 8.0 Electrical

#### 8.1 Electrical Schematic

Item	Part No.	Description	Quantity		
1	<b>400002</b> 40103	Box, Control, 700BM (1997)	1		
2	92078	Harness, Extension, 5&7BM	1		
3	92089	Valve	0		

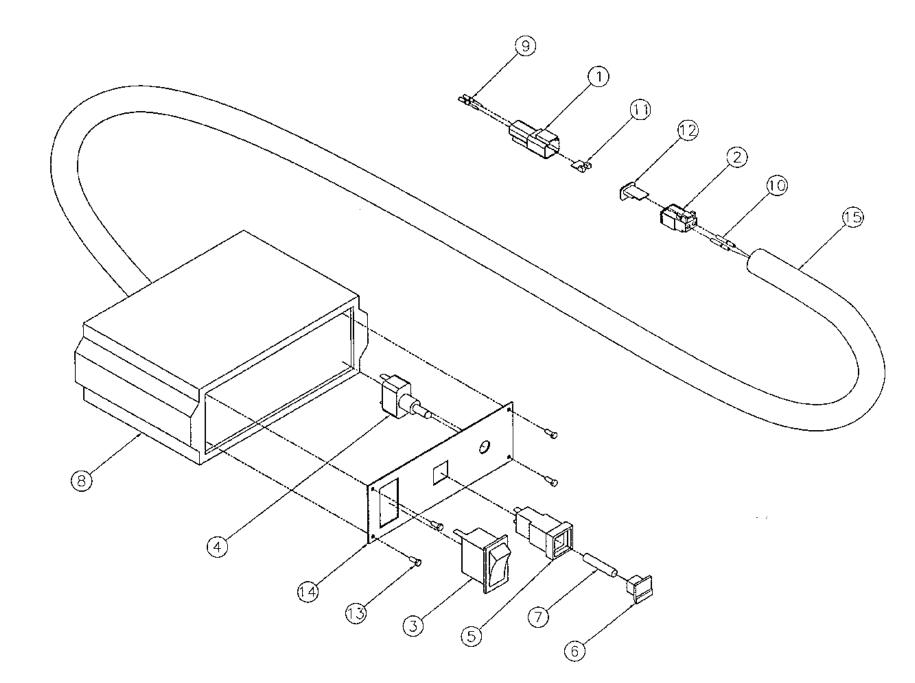
Note: Black wire from control box to tractor ground

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	l		
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

	1 2 250 11 (0 5001 )
Weight	Approximately 3,850 lbs (8,500 kg)
Total Length	33'1"
Bed Length	28'6''
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)

BOUL OF MATERIAL REPORT

Bumper Rule

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