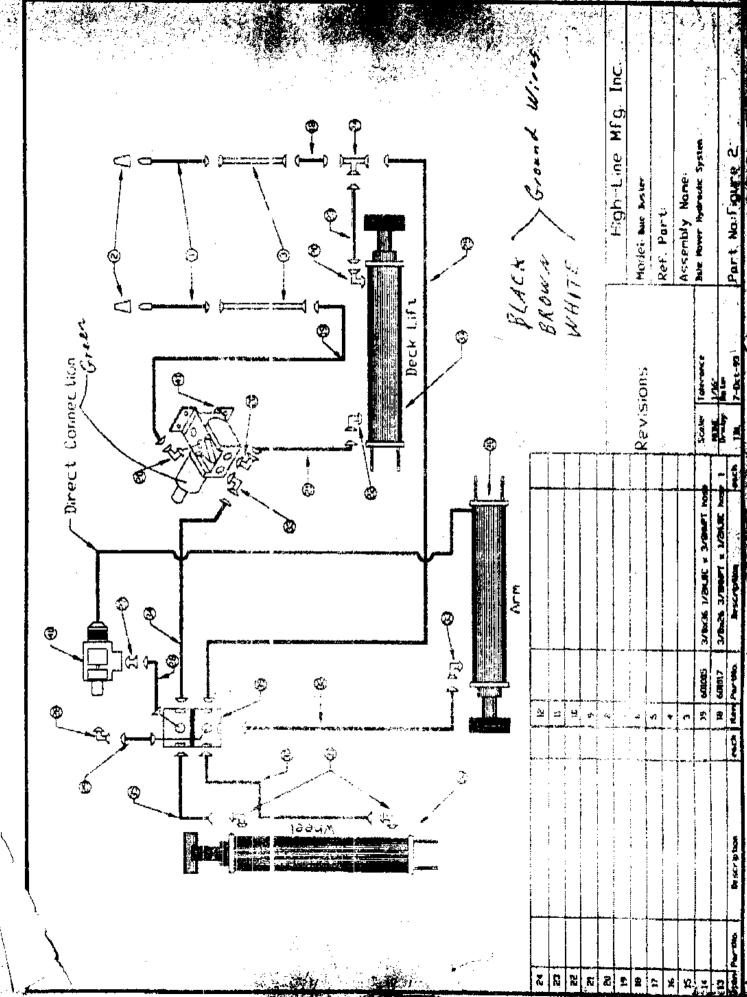
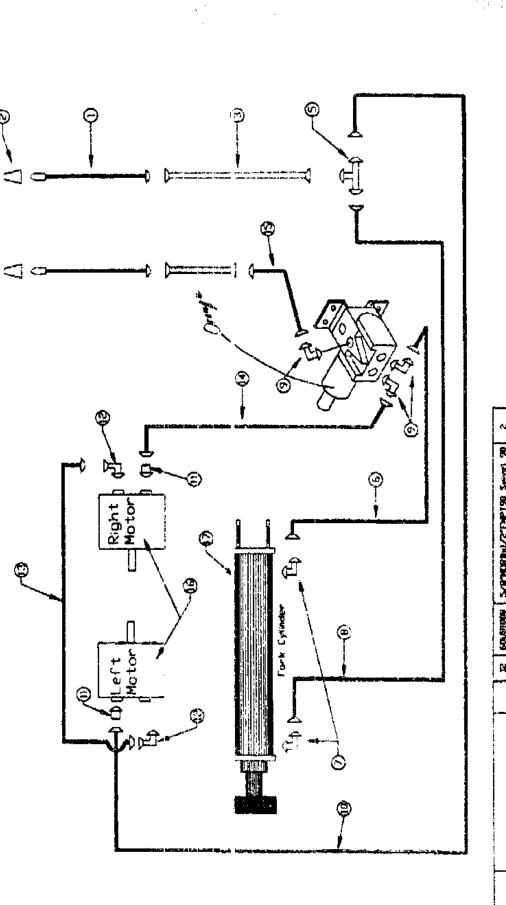
# Comme Balemaster

1993- 1994

# MODEL 700

# Assembly-Operator Parts Manual





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		R		3/8"*60 1/2788/21x1/21.71C		
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Part No:Figure

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3-1/2'x16' sydenade Eylinder

Hydroude Motor

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> 3/8/x60" 1/2/14/01 x 1/2/1/30 3/8"a26" 1/2"R. X 1/2"F.JRC

3/6'x64' 3/2'NAPTx3/2'NJBC

13 98276 ree Fertien



TO THE OWNER:

Congratulations on the purchase of your new HIGH-LINE 700 BALE MOVER.

Constructed of the finest quality materials, your HIGH-LINE 700 BALE MOVER is engineered and designed to do normal operations effectively, efficiently and to provide you with years of dependable service.

Be sure to read the instructions in this manual for adjusting and operating your 700 BALE MOVER. A few moments to acquaint yourself with the bale mover and its maintenance requirements will save you precious time in the field and protect your machinery investment. Should you in time need replacement parts, consult the parts list in this manual and contact your HIGH-LINE dealer.

High-Line Mfg. Inc.



#### Warranty Claim

High-Line Mfg. Inc. warrants its products to the original owner for a period of two years from date of purchase, subject to the following.

- \*1st year Parts & Labour
- •2nd year Parts Only
- All matters related with the warranty of products must be handled through an authorized High-Line Manufacturing dealer.
- Any labour subject to warranty must be authorized by a High-Line 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 Labour)
- Warranty will be void if any component of this machine is altered or modified in any way, unless written permission is given by High-Line Mfg. Inc.
- High-Line 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.

#### **IMPORTANT**

Please read entire manual before you operating your 700 Bale Mover

#### SAFETY

# **A** CAUTION

INSTALL SAFETY PIN WHEN BALE WAGON IS IN TRANSPORT POSITION.

8015

OUTSIDE BED RAILING

# **A** CAUTION

HITCH JACK
MAXIMUM
5000 POUNDS

2012

RIGHT SIDE OF SUB FRAME

# A CAUTION

STAY CLEAR OF
WAGON BED WHILE
MACHINE IS OPERATING

.

FRONT SIDE OF SUPPORT

# **A CAUTION**

FOR ADJUSTMENT
SEE
OPERATOR'S MANUAL.
8019

FRONT CROSS MEMBER

# A CAUTION

KEEP ALL SAFETY SHIELDS IN PLACE WHEN OPERATING MACHINE.

8017

RIGHT SIDE OF SUB FRAME

# **ACAUTION**

TOWING SPEED NOT TO EXCEED: 24 MPH – 40 KMPH

FRONT CROSS MEMBER

€321

## TABLE OF CONTENTS

OPERATION	17
TROUBLE SHOOTING	18
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WARRANTY	

# SPECIFICATION

SHIPPING WEIGHT 3600 lbs.
TOTAL LENGTH 41 feet
BED LENGTH 37 feet
TOTAL WIDTH 8 feet
BED WIDTH 2'11"
TOTAL HEIGHT 9'2"
BED HEIGHT 2'8"
GROUND CLEARANCE 14"
MAXIMUM CAPACITY 7 - 5 foot Bales
CONVEYOR CHAIN Heavy Duty ASA 2062 12 Pitch
TIRES 4 - 9.5L x 15 x 8 ply c/w tube & 40 PSI Highway Service
UNDERCARRIAGE 2 - 2 Wheel Walking Axle
HORSE POWER REQUIRED 60 Horse Power
HYDRAULIC OUTLETS 2

### ASSEMBLY

#### 1. SITE SELECTION

Prior to assembly, select an area which is clean, level and large enough to accompdate assembled Bale Mover.

#### 2. ORIENTATION

Left and right are determined when standing behind the machine facing the direction of travel.

#### 3. REQUIRED TOOLS AND EQUIPMENT

Before beginning assembly of the Bale Mover, have the following equipment on hand:

- 1. Fork lift or hoisting equipment with lifting capacity of 500 lbs.
- 2. Wrenches: 1/2,9/16,3/4,7/8,15/16,1,1 1/4".
- 3. Wire cutters
- 4. Pliers
- 5. Ball peen hammer
- 6. Pry Bar
- 7. Aligning bar

CAUTION: SOME BALE MOVER COMPONENTS ARE EXTREMELY HEAVY.
HAVE HOISTING EQUIPMENT AVAILABLE WITH A LIFTING
CAPACITY OF 500 POUNDS FOR ASSEMBLY OF PARTS.

- 4. Open packing case and check contents against parts list in this book.
- 5. Before beginning to assemble Bale-Mover ensure that all parts are accounted. Check against parts list in this book.

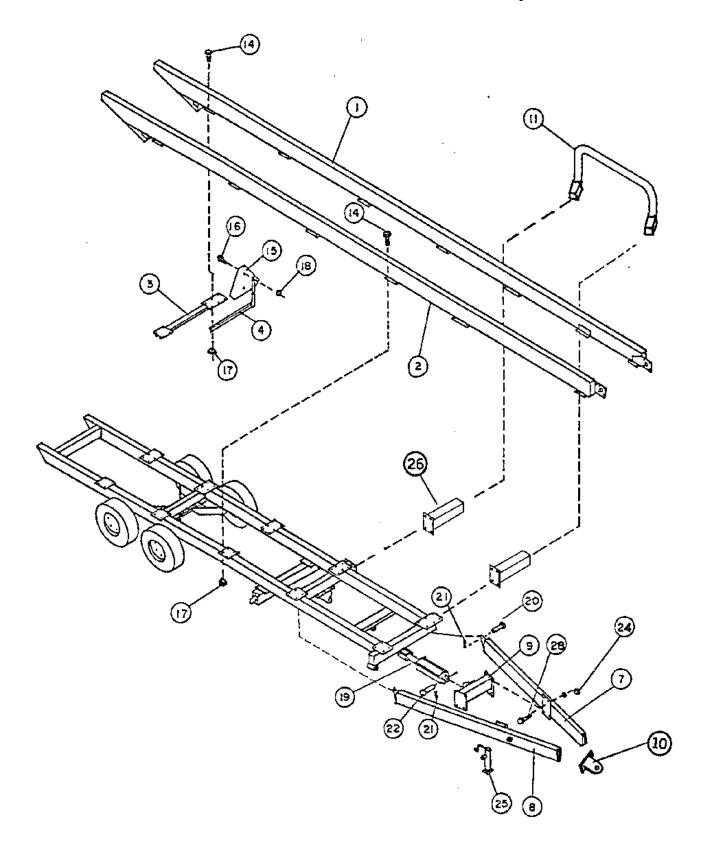
# Main Sub Frame

#### MAIN SUB FRAME

NOTE: DO NOT TIGHTEN BOLTS UNTIL ASSEMBLY IS COMPLETE.

- 1. Bolt centre pocket #3 to sub-frame #7 with 5/8" x 1 3/4" bolt.
- 2. Position the centre pocket #3 and the walking beam end #4 and bolt side pockets #9 to sub-frame #7 with 5/8" x 1 3/4" bolt #19.
- 3. Mount wheels to walking beam #4 with 1/2" wheel bolt #1.
- 4. Install #6 cylinder bracket complete with  $5/8" \times 1 3/4"$  bolt #13.
- 5. Bolt rubber bumper #8 to sub-frame #7 with 7/16" locknut #10.

A-Frame Hitch and Rail Assembly



#### A-FRAME HITCH and RAIL ASSEMBLY

#### A-FRAME HITCH TO SUB FRAME

- Position right #8 and left #7 A-frame hitch to sub frame.
   Secure with pins 1 1/4" x 3" #20".
- Assembly hitch cross member #9 left and right hitch with 1/2" x 1 1/2" bolts #28.
- 3. Install hitch plate #10 in lower holes to hitch with 1  $\times$  7 1/2 bolt.
- 4. Tighten bolts on hitch cross member.

#### INSTALLATION OF RAILS

1. With hoisting equipment, place rails on sub-frame and fasten with  $1/2 \times 1 \, 1/2$  bolt.

CAUTION: Due to length of rail, to avoid damage and personal injury, caution should be exercised when lifting member into place

#### INSTALLATION OF CROSS MEMBER

Bolt rear cross member #3 to back of the rails.

#### INSTALLATION BALE STOP

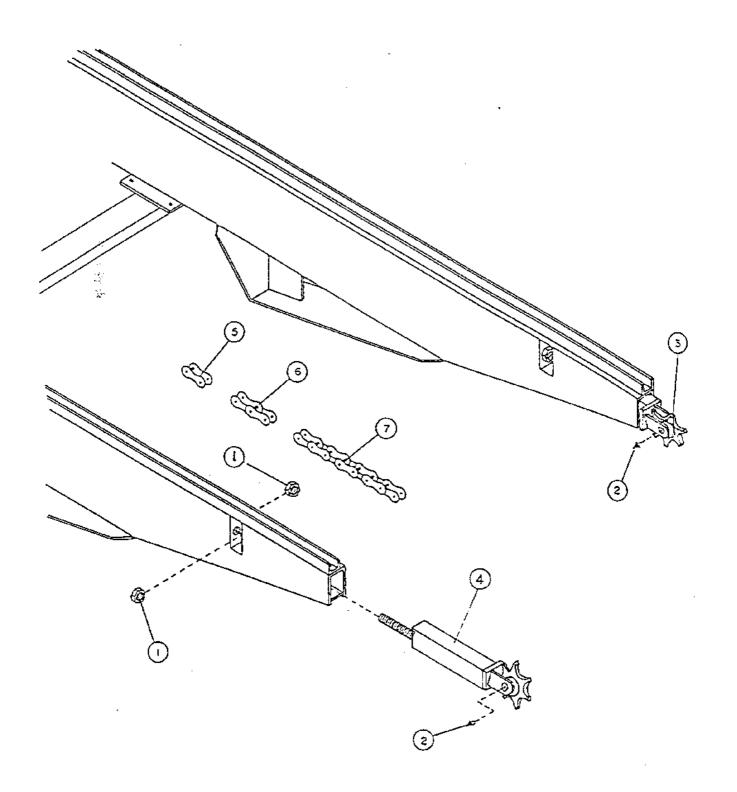
1. Bolt bale stop attachment plate #26 to the sub frame with  $1/2 \times 1$  1/2" bolts and 1/2" lock nuts, then slip #11 onto #26 with  $1/2 \times 1$  1/2" bolt.

#### INSTALLATION OF SLOW MOVING SIGN

1. Bolt slow moving sign to bracket #4 with  $1/4 \times 3/4$ " bolts #16. Attach slow moving sign to rear cross member #3 with  $1/2 \times 1$  1/2" bolt #14.



# Chain Tightener

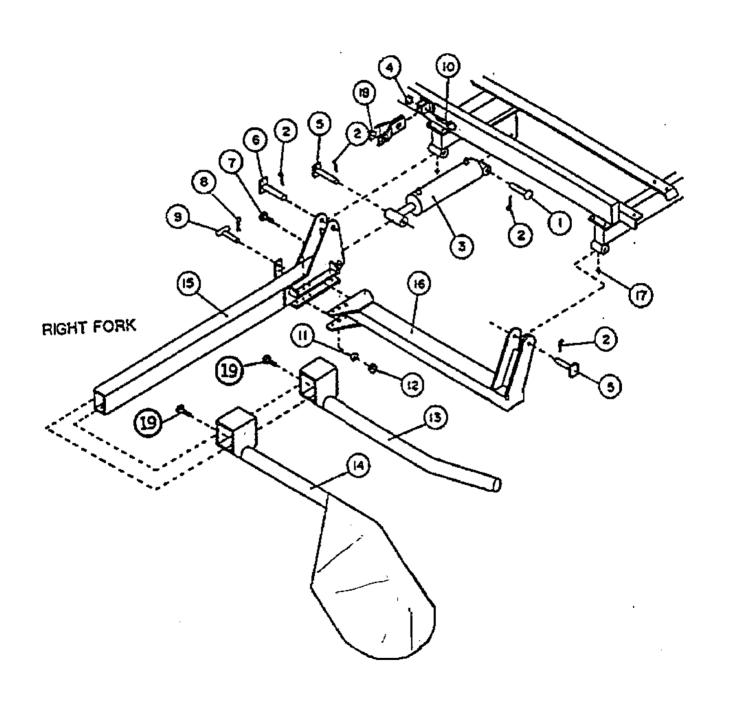




#### ROLLER CHAIN INSTALLATION

- 1. To install roller chains, refer to drawing on opposite page.
- Thread all chain tighteners into rail and tighten with 5/8" nut #1 to other side of plate.
- 3. Insert into entire length of rail either fish line or 1/4" rod. Unroll chain length #7 on the rail channel from the rear, unrolling towards the front. Fasten the roller chain to the fish line and proceed to pull chain through. Unroll #7 roller chain on top of rails. Secure both ends with a connecting link #6 or half link #5.
- 4. To adjust the roller chain on each rail, grasp the chain on centre and lift. The chain should have an 8" lift, or check inside tubing and chain should be lifted about 2" from bottom of tube. To adjust, move chain tightener in direction which is needed.

## Fork Assembly





#### INSTALLATION OF BALE FORK TO SUB FRAME

- 1. Place pivot slide arm right #15 under 4 x 6 cross member. Secure slide arm to cross member with 1 1/4" x 6 3/4" pin #6 and cotter pin #2. Secure bolt fork lock end #18 with 3/4" x 2 1/2" bolt #10.
- 2. Place pivot arm right #16 under front cross member. Secure pivot arm to cross member with 1" x 6 3/4" pin #5 and cotter pin #2. Secure right slide arm to right pivot arm with 5/8" x 1 1/2" bolt #7, lock washer #11 and nut #12.

#### INSTALLATION OF FORK TEETH

- 1. Lift and block pivot slide arm about four to six inches above the ground. Slide left fork #13, part #40023 onto the frame. Tighten with 1 x 2" bolt #19. Next slide front fork #14, part #40022 onto fhe frame. Tighten with 1 x 2" bolt #19
- To adjust fork teeth, place fork in locked transport position. Adjust inside fork tooth higher than outside rail. Tighten bolts. Depending on bale size and condition, adjust outside fork tooth to suit round bale.

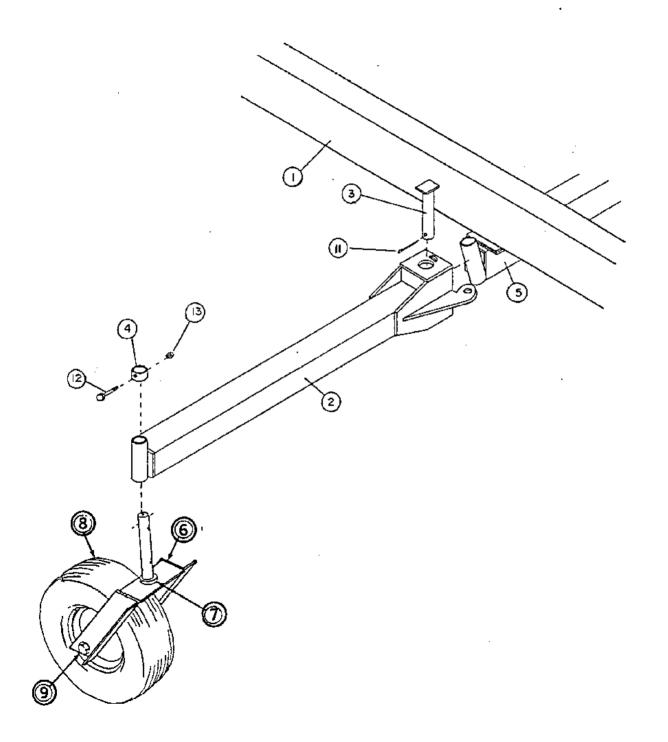
#### FORK CYLINDER INSTALLATION

- 1. Secure 3 1/2" x 13" cylinder #3, base plate of cylinder in cylinder gussets on 4 x 6 cross member. Secure with 1" x 6" pin #1 and cotter pin #2. Ports to be upward.
- 2. Install cylinder to pivot slide arm and secure with 1" x 6 3/4" pin #5 and cotter pin #2.

NOTE: INSTALL RESTRICTED ELBOW TO ROD END OF CYLINDER.



# Support Arm Assembly



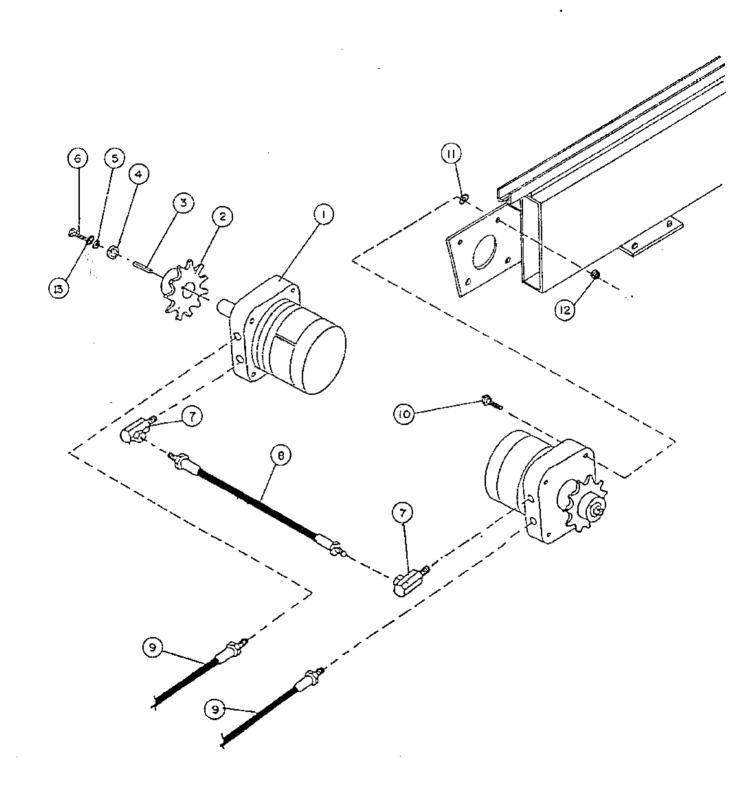


#### INSTALLATION OF SUPPORT ARM

- Drop pin #3 in hole at the rear of the support arm #2, and put in cotter pin #11.
- Attach support arm wheel bracket #6 to the end of the support arm #2. Put collar on to end of shaft and put bolt 1/4" x 2 1/2" in with locknuts.
- 3. Attach supplied wheel to castor fork with a 1 X 9" unc bolt.



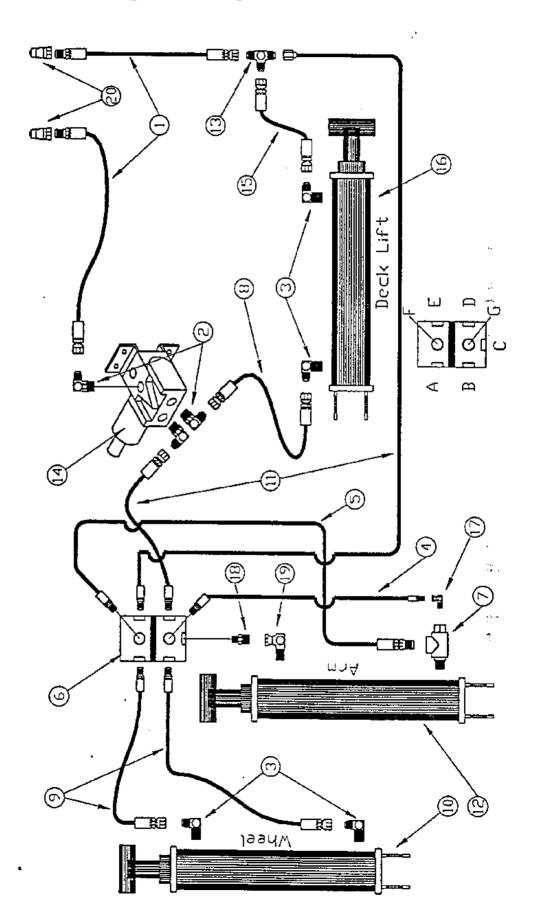
# Hydraulic Motors





#### HYDRAULIC MOTORS

- Secure hydraulic motors #1 to rails #45051 and #45052, as shown on page 3, complete with 1/2" x 2 1/2" bolts #10, and 1/2" locknut #12.
- NOTE: The 1/2" washers #11 are supplied to shim motor to centre sprocket with channel, if required.
- 2. Place sprocket #2 and keystock #3 on shaft of hydraulic motor. Install end washer #4, 5/8" flatwasher #13, 5/8" lockwasher #5 and bolt with 5/8" x 1" NF #6.
- 3. Left motor has a 90° swivel elbow #7 in the top port and is attached to hose #8. The bottom port has a hose #19 which attached to the tractor.
- 4. Right motor has a 90° swivel elbow #7 in the bottom port and is attached to hose #8. The top port has a hose #9 which attaches to the tractor.



#### INSTALLATION of HYDRAULIC HOSE and LINES

- IMPORTANT: All hoses are different lengths, so refer to lengths on page 34.
- NOTE: When finished installing hydraulic hoses to preassembled valve assembly, make sure to follow set-up as shown on opposite page.
- 1. Install tilt cylinder #16. Secure elbow #3 to cylinder. Attach #8 hose to #2 and it to the top rear port on the cartridge valve as shown. Attach #15 hose to elbow #3 and the opposite end connects to male tee #13.
- 2. The tractor hose #1 is attached to elbow #2 to the upper side of cartridge valve #14. The second tractor hose is attached to male tee #13.
- 3. Hose #11 attaches to the top front port on the cartridge valve as shown and the opposite end attaches to port D of the double tee block #6. The second hose also number #11 connects male tee #13 to port E of the double tee block #6.
- 4. Install fork cylinder #12. Attach pilot check valve #7 to the cylinder. Attach #19 to the opposite end of the cylinder, then attach #18 to #19. On top of #18 mount the double tee block #6 through port C.
- 5. Secure hose #4 to Port G of #6 and the opposite end connects to the 1/4" swivel elbow #17. Connect #17 to the top of pilot check valve #7 as shown. Mount hose #5 to the side of check valve #7 and the opposite connects to port F of #6.
- 6. Install support wheel arm cylinder #10 in cylinder ports. Secure elbow #3 in both ports of cylinder #10.
- 7. Hose #9 attaches to elbows #3 on the wheel arm cylinder and connect to ports A and B of #6 as shown.

#### PRE-OPERATION ASSEMBLY

- CAUTION: To fill hydraulic hoses and cylinders with oil, proceed as follows.
- 1. Install fittings to hose ends, connect hoses to tractors.
- 2. With fork still in down position, carefully operate controls allowing oil to flow to fork cylinder.



#### **OPERATION**

#### OPERATION

- A. Operate Bale Mover only from tractor.
- B. The model High-Line 700 BALE MOVER is designed for maximum work efficiency with minumum operator fatigue. An unfamiliar operator should spend time to learn the operating characteristics of the machine. A period of careful practice is recommended which will reward you with safe and efficient operation.
- C. The tractor should be of 60 H P class or larger and must have a good hydraulic working system, 2000 PSI with 15-20 gallons per minute.

#### MODE OF OPERATION

The High-Line 700 BALE MOVER is able to pick up and transport 7 - 1500 pound bales. Follow the mode of operation below.

CAUTION: BEFORE OPERATING HYDRAULICS, REMOVE LIFT FORK SAFETY PIN.

- Approach the round bale with the right fork in the lowered position.
   Advance till the bale rests firmly between the lift fork teeth.
   Raise the fork, until the bale falls onto the mover bed.
- Roll back I loaded bale just far enough to make space to load next bale. The lift forks may have to be lowered slightly for larger bales.

#### UNLOADING BALES

IMPORTANT: Depending on Bale size, in some cases, to enable the loaded bale to move past the fork, the fork may have to be lowered slightly.

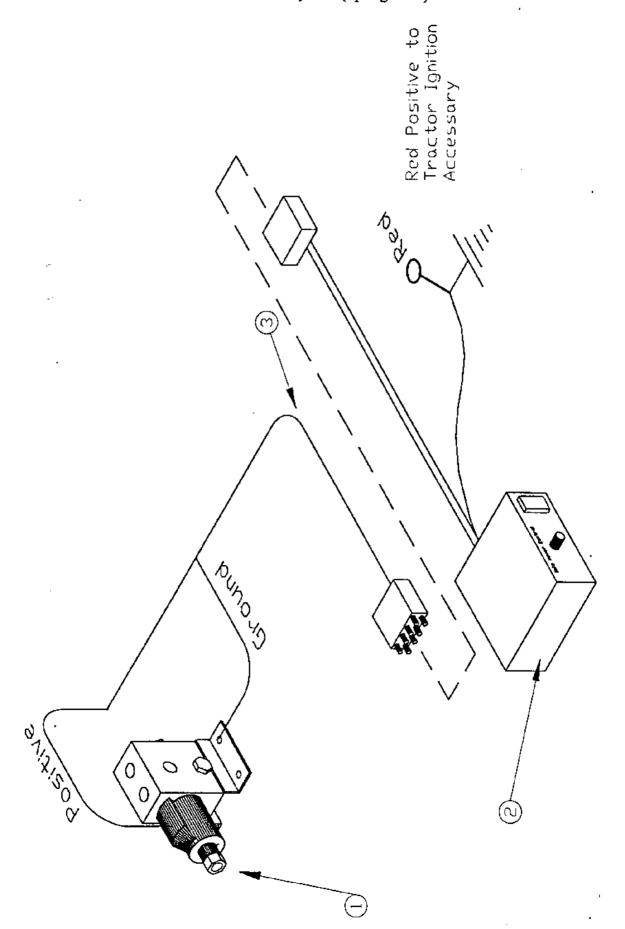
- 1. To activate cartridge valve simply switch up toggle switch. The toggle switch in the down position activates the fork arm.
- 2. With the conveyor down, advance tractor at same speed as chain.

IMPORTANT: THE SPEED OF TRACTOR ADVANCEMENT AND CHAIN SPEED MUST BE KEPT CONSTANT.OTHERWISE THE DRIVE CHAIN WILL CUT BALE STRINGS OR CAUSE IMPROPER BALE SPACING.

## TROUBLE SHOOTING



SYMPTON	PROBABLE CAUSE	REMEDY
<ol> <li>Strings cut when unloading</li> </ol>	*Tractor chain speed uneven	*Keep tractor & chain speed constant.
	*Inside lift fork too low	*Raise fork accordingly
<ol><li>Chain falls from track</li></ol>	*Chain not tight	*Tighten chain as on Page 5.
	*Forks too close to mover bed	*Raise inside lift fork
<ol><li>Chains twist or lean</li></ol>	*Pressure from bales caused by side loading	*Straighten with bar
		*Raise lower fork so bale will clear side rail.
4. Bed deck does	*Low oil	*Check tractor reservoir
not raise	*Poor electrical connection	*Check wiring
	*Needs seal kit	*Replace kit



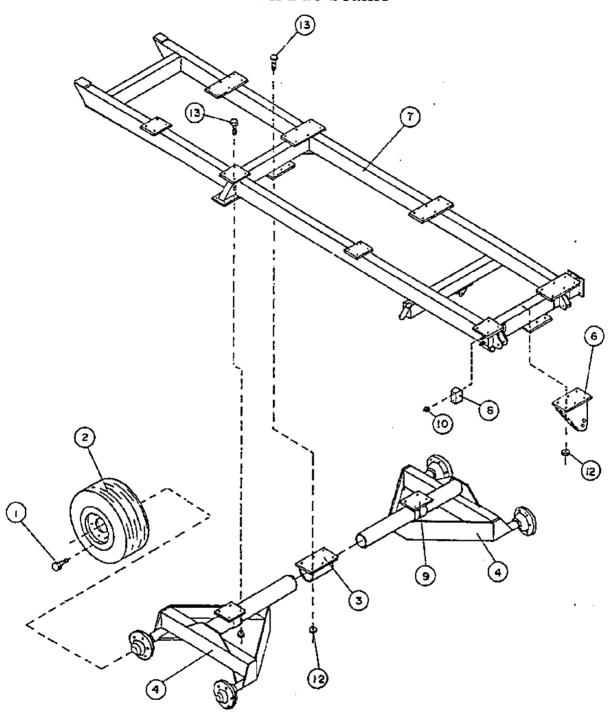
# PARTS CATALOGUE

MAIN SUB-FRAME	21
A-FRAME HITCH AND RAIL ASSEMBLY	23
CHAIN TIGHTENER	25
FORK ASSEMBLY	27
SUPPORT ARM ASSEMBLY	29
HYDRAULIC MOTORS	31
HYDRAULIC ASSEMBLY	33
611 HUB & SPINDLE	35
211 HUB & SPINDLE	37
3 1/2" x 13" CYLINDER	
3" x 8" CYLINDER	
3" x 10" CYLINDER	43
ELECTRICAL SYSTEM	45

NOTE: 5 BALE MOVER PARTS ARE THE SAME AS A 7 BALE MOVER WITH THE EXCEPTION OF THE FOLLOWING LIST:

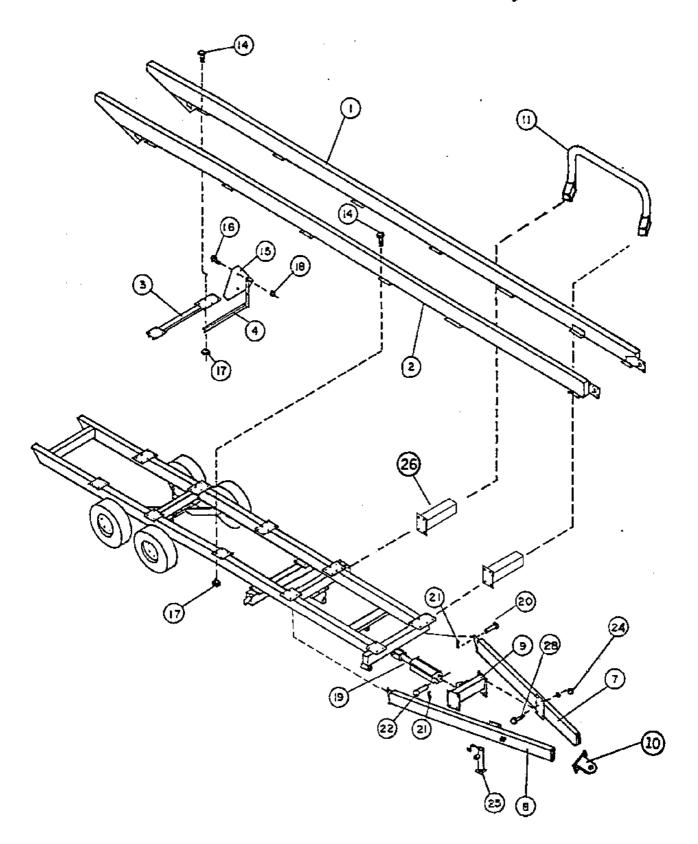
- 91514 5 BALE MOVER 25' CHAIN
- 45063 5 BALE MOVER LEFT RAIL
- 45064 5 BALE MOVER RIGHT RAIL

## Main Sub Frame



1 91060 Wheel Bolt 1/2" 2 91008 11-151t 8ply Farm Hiway service tire 4 4 45006 Centre Pocket 1 4 45004 Walking Beam 2 5 45002 Stabelizer Mount 1 6 45033 Cylinder Bracket 1 7 45128 Main Sub Frame 1 8 92061 Rubber Bumper 1 9 45007 Side Pockets 2 10 LNC08P Locknut 1/2" 10 11 B5C0824P 1/2 X 1 1/2" bolt: 8 12 LN5C10P Locknut 5/8" 20 13 B5C1024P Bolt 5/8" x 1 1/2"	ITEM	PART NUMBER	DESCRIPTION	No
2   91008   11-151t 8ply Farm Hiway service tire   4   45006   Centre Pocket   1   1   4   45004   Walking Beam   2   5   45002   Stabelizer Mount   1   1   6   45033   Cylinder Bracket   1   1   1   1   1   1   1   1   1	1		Wheel Bolt 1/2"	34
4 45004 Walking Beam 5 45002 Stabelizer Mount 6 45033 Cylinder Bracket 7 45128 Main Sub Frame 8 92061 Rubber Bumper 9 45007 Side Pockets 10 LNC08P Locknut 1/2" 11 B5C0824P 1/2 X 1 1/2" bolt: 12 LN5C10P Locknut 5/8" 20	2	91008	11-151t 8ply Farm Hiway service tire	44
5 45002 Stabelizer Mount 6 45033 Cylinder Bracket 7 45128 Main Sub Frame 8 92061 Rubber Bumper 9 45007 Side Pockets 2 10 LNC08P Locknut 1/2" 11 B5C0824P 1/2 X 1 1/2" bolt: 12 LN5C10P Locknut 5/8" 20	3	45006	Centre Pocket	1 7
6 45033 Cylinder Bracket  7 45128 Main Sub Frame  8 92061 Rubber Bumper  9 45007 Side Pockets  10 LNC08P Locknut 1/2"  11 B5C0824P 1/2 X 1 1/2" bolt  12 LN5C10P Locknut 5/8"  20	4	45004		<del>-  </del>
7 45128 Main Sub Frame 8 92061 Rubber Bumper 9 45007 Side Pockets 10 LNC08P Locknut 1/2" 11 B5C0824P 1/2 X 1 1/2" bolt 12 LN5C10P Locknut 5/8" 20	_	45002	Stabelizer Mount	1 7
8       92061       Rubber Bumper       1         9       45007       Side Pockets       2         10       LNC08P       Locknut 1/2"       10         11       B5C0824P       1/2 X 1 1/2" bolt       8         12       LN5C10P       Locknut 5/8"       20	6	45033	Cylinder Bracket	1
9 45007 Side Pockets 2  10 LNC08P Locknut 1/2" 10  11 B5C0824P 1/2 X 1 1/2" bolt: 8  12 LN5C10P Locknut 5/8" 20	-	45128	Main Sub Frame	<del>-   -</del>
10 LNC08P Locknut 1/2" 11 B5C0824P 1/2 X 1 1/2" bolt: 12 LN5C10P Locknut 5/8" 20		92061	Rubber Bumper ·	l i
11   B5C0824P   1/2 X 1 1/2" bolt; 12   LN5C10P   Locknut 5/8"   20	9	45007	Side Pockets	1 2
11   B5C0824P   1/2 X 1 1/2" bolt: 8 12   LN5C10P   Locknut 5/8"   20		LNC08P		10
12 LN5C10P Locknut 5/8" 20	11		1/2 X 1 1/2" bolt:	1 -
13   DECINATE   D-1+ CACE   1	12	LN5C10P	Locknut 5/8"	
	13	B5C1024P	Bolt 5/8" x 1 1/2"	20
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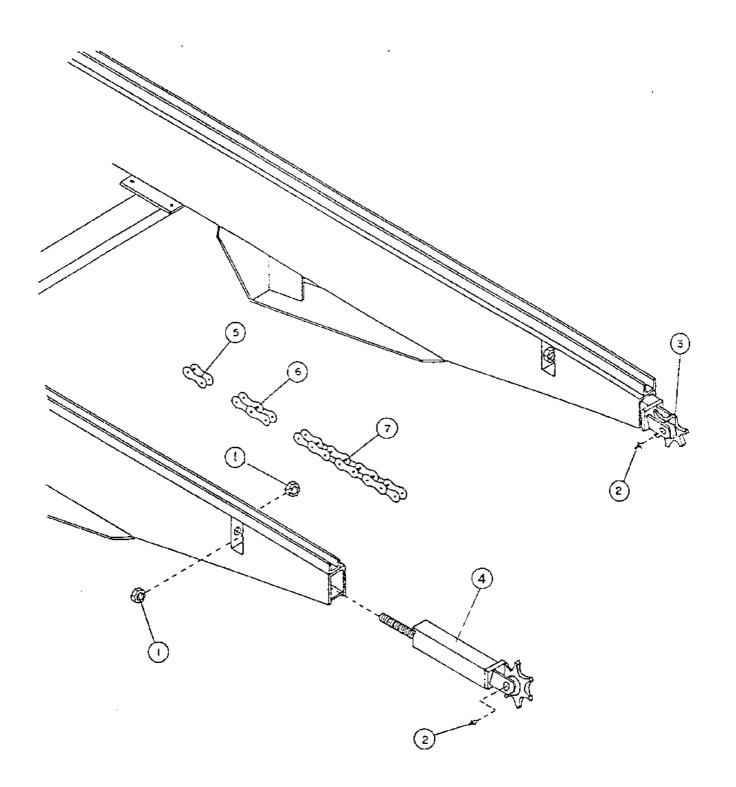
A-Frame Hitch and Rail Assembly



ITEM	PART NUMBER	DESCRIPTION	No
1	45051	Left Outside Rail	1
2	45052	Right Outside Rail	-
3	45008	Rear Cross Member	1 1
4	45022	Slow Moving Sign	1
- <del></del>	45011	Left A-Frame Tube	1
8	45010	Right A-Frame Tube	1
9	45012	A-Frame Cross Member	1
10	45058	HITCH TONGUE	1
11	45016-A	Bale Stop	1
13	W10P	Lockwasher 5/8"	6
14	B5C0824P	BOLT 1/2 X 1 1/2"	88
15	92040	Slow Moving Sign	
16	B5C0412P	Bolt 1/4" x 3/4"	1 2
17	LNC08P	Locknut 1/2"	88
18	LN5C04P	Locknut 1/4"	2
19	90712	Cylinder 3" x 10"	1
20	40003	A-Frame Pin 1 1/4" x 3"	2
21	CPO440	Cotter Pin 1/4" x 2 1/2"	4
22	91603	Pin Cylinder	2
24	LN5C08P	Locknut 1/2"	1 9
25	92033	Hitch Jack	1
26	45059	Bale Stop Mounting Arm	li
27	LNC16P	1" Locknut	li
28	B5C0824P	Bolt 1/2" x 1 1/2"	2
29	B5C16120T	1 x 7 1/2" UNC BOLT	1
10	45060	Double Hitch Tongue (optional)	



# Chain Tightener

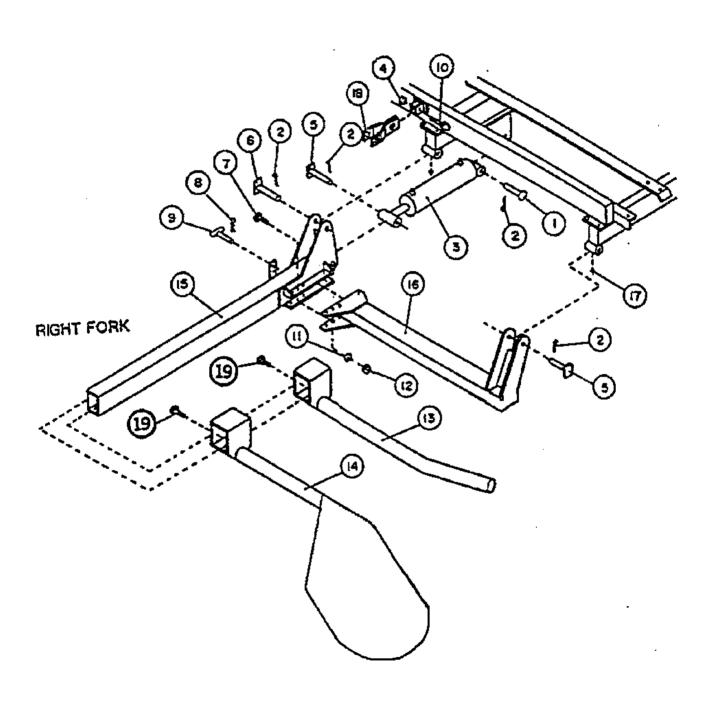


DESCRIPTION	Nº
Nut 5/8"	4
Grease Nipple 1/8" NPT Straight	4 .
	2
	2
	*
	*
* As Required	54
ROLLER LINK 2003	-
	Nut 5/8" Grease Nipple 1/8" NPT Straight Right Chain Tightener Left Chain Tightener 2062 Half Link 2062 Connecting Link 2062 Chain c/w Connecting Link  * As Required

- · - · - · - · .

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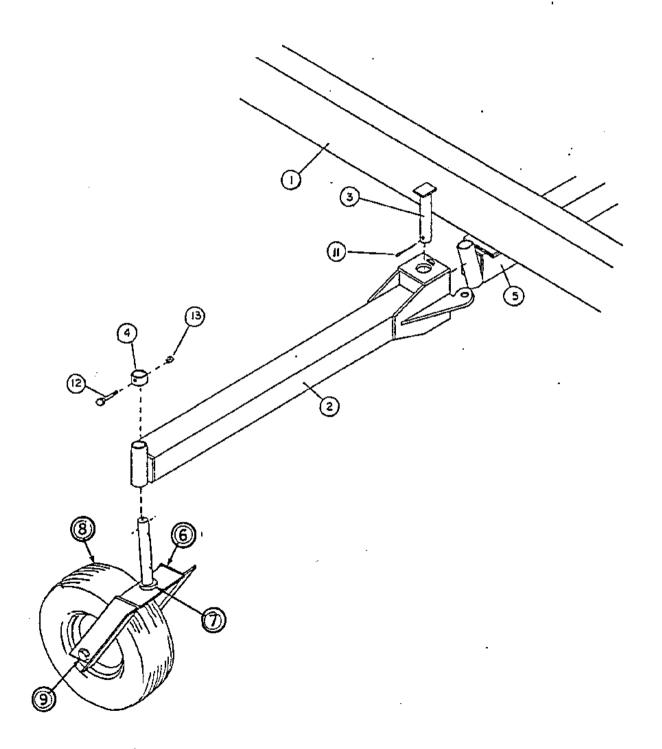
Fork Assembly



ITEM	PART NUMBER	DESCRIPTION	N€
1 2 3	40009 CP0440 90 <b>13.D</b>	Cylinder Bracket Pin Cotter Pin 1/4" x 2 1/2" Cylinder 3 1/2" x 13"	1 4 1
4 5 6	LN5C12P 40008 40010	Locknut 3/4" Front Pivot Arm Pin Pivot Slide Arm Pin	1 2 1
7 8 9	B5C1024P, HP40 40019	5/8 x l 1/2" bolt Hair Pin Clip 2 1/2" Pivot Slide Arm Lock Pin	1010
10 11 12	B5C1240P W10P N5C10P	Bolt 3/4" x 2 1/2" Lock Washer 5/8" Nut 5/8"	1 8 8
13 14 15	40080 40079 40018	Right Short Fork Right Paddle Fork Right Pivot	1 1 1
16 17 18	40012 91700 45023	Right Pivot Arm Grease Nipple 1/8" NPT Straight Fork Locking Extention	1 2 1
19	B5C1632P	1 x 2" bolt	
•			



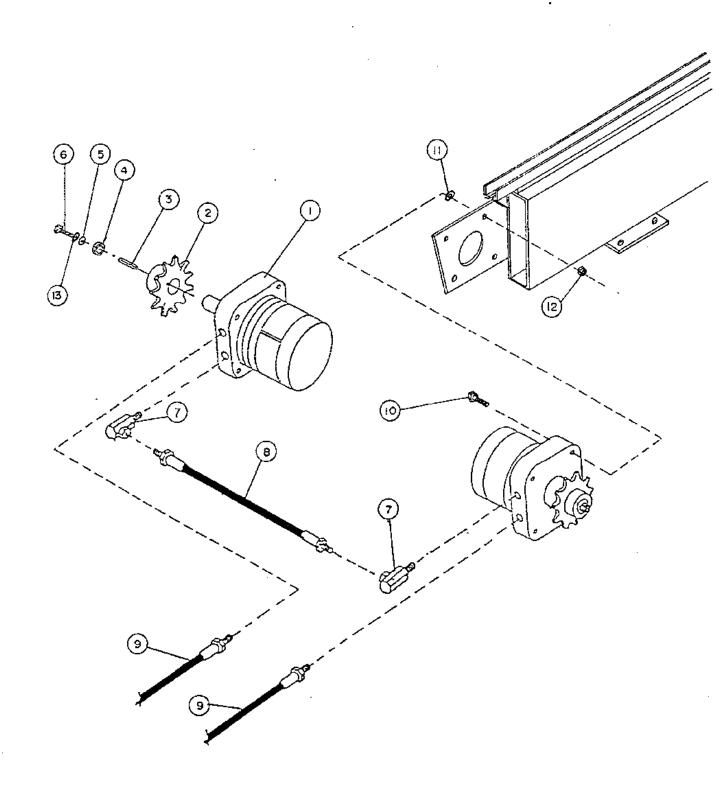
# Support Arm Assembly



ITEM	PART NUMBER	DESCRIPTION	Nō
1	45047	Main Sub Frame	*
2	45003	Support Arm	1
2	45025	Support Arm Pin	1 1
4	45026	Support Arm Collar	1
<u>4</u> 5 .	45002	Support Arm Bracket	l i
6	500007	Castor Fork	l i
7	45061	Castor Fork Spacer	<del>   1</del>
8	301210	Castor Tire And Rim	lï
9	B5C16144P	1 X 9" Bol; "	4
			4
11	CPO440	Cotter Pin 1/4" x 2 1/2"	1
12	B5C0540P	Bolt 5/16" x 2 1/2"	l 1
13	LN5C05P	Locknut 5/16"	3
	l .		

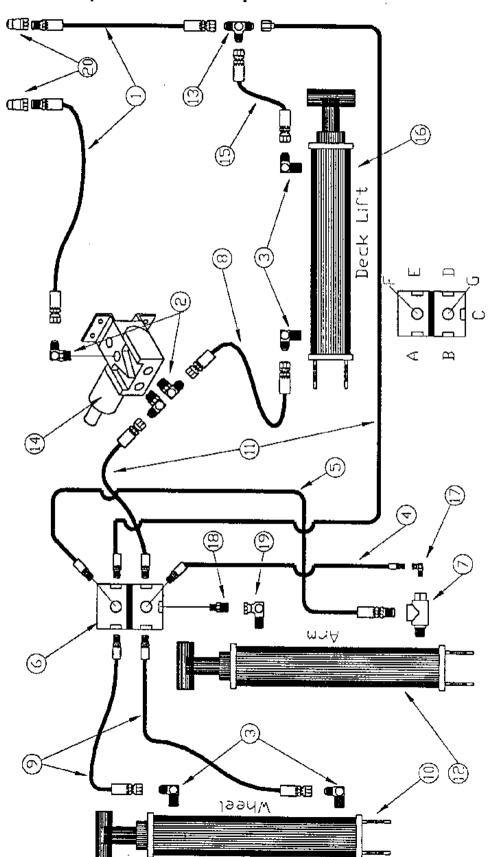


## Hydraulic Motors



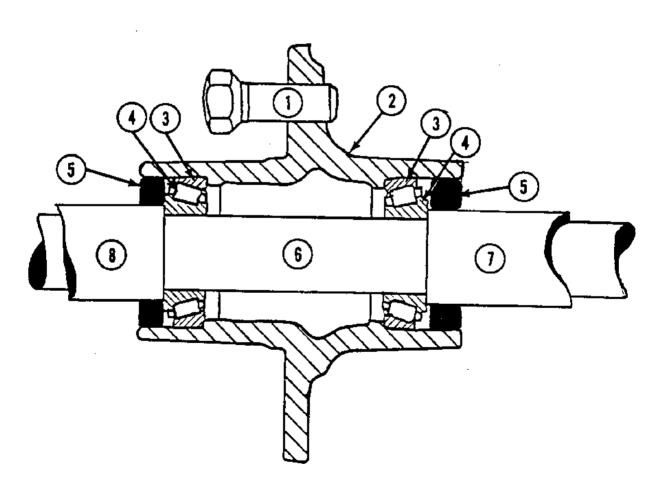
1       92066       HYDRAULIC MOTOR       2         2       92063       C-2062 - 10 TOOTH SPROCKET       2         3       40078       5/16" KEYSTOCK       2         4       40077       END WASHER       2         5       LW10P       5/8" LOCKWASHER       2         6       92067       5/8" x1" BOLT       2         7       90507       90 deg. SWIVEL ELBOW 60MB 08MB       2         8       90216       1/2"x 60" HOSE 08MNPT X 08 MNPT       2         9       90310       1/2"x 96" HOSE 10MORB X 08MNPT       2         10       B5C0840P       1/2" x 2 1/2" Bolt UNC Gr. 5       2         11       FW08P       1/2" FLATWASHER       2         12       LNC08       1/2" LOCKNUT UNC       2         13       FW10P       5/8" FLATWASHER       2	ITEM	PART NUMBER	DESCRIPTION	NO.
3       40078       5/16" KEYSTOCK       2         4       40077       END WASHER       2         5       LW10P       5/8" LOCKWASHER       2         6       92067       5/8" x1" BOLT       2         7       90507       90 deg. SWIVEL ELBOW 60MB 08MB       2         8       90216       1/2"x 60" HOSE 08MNPT X 08 MNPT       2         9       90310       1/2" x 96" HOSE 10MORB X 08MNPT       2         10       B5C0840P       1/2" x 2 1/2" Bolt UNC Gr. 5       2         11       FW08P       1/2" FLATWASHER       2         12       LNC08       1/2" LOCKNUT UNC       2	1	92066	HYDRAULIC MOTOR	2
4 40077 END WASHER  5 LW10P 5/8" LOCKWASHER  6 92067 5/8" x1" BOLT  7 90507 90 deg. SWIVEL ELBOW 60MB 08MB  8 90216 1/2" x 60" HOSE 08MNPT X 08 MNPT  9 90310 1/2" x 96" HOSE 10MORB X 08MNPT  10 B5C0840P 1/2" x 2 1/2" Bolt UNC Gr. 5  2 11 FW08P 1/2" FLATWASHER  12 LNC08 1/2" LOCKNUT UNC	2	92063	C-2062 - 10 TOOTH SPROCKET	2
5       LW10P       5/8" LOCKWASHER       2         6       92067       5/8" x1" BOLT       2         7       90507       90 deg. SWIVEL ELBOW 60MB 08MB       2         8       90216       1/2"x 60" HOSE 08MNPT X 08 MNPT       2         9       90310       1/2" x 96" HOSE 10MORB X 08MNPT       2         10       B5C0840P       1/2" x 2 1/2" Bolt UNC Gr. 5       2         11       FW08P       1/2" FLATWASHER       2         12       LNC08       1/2" LOCKNUT UNC       2	3	40078	5/16" KEYSTOCK	2
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7 90507 90 deg. SWIVEL ELBOW 60MB 08MB 2 8 90216 1/2"x 60" HOSE 08MNPT X 08 MNPT 2 9 90310 1/2" x 96" HOSE 10MORB X 08MNPT 2 10 B5C0840P 1/2" x 2 1/2" Bolt UNC Gr. 5 2 11 FW08P 1/2" FLATWASHER 2 12 LNC08 1/2" LOCKNUT UNC	5	LW10P	5/8" LOCKWASHER	2
8 90216 1/2"x 60" HOSE 08MNPT X 08 MNPT 2 9 90310 1/2" x 96" HOSE 10MORB X 08MNPT 2 10 B5C0840P 1/2" x 2 1/2" Bolt UNC Gr. 5 2 11 FW08P 1/2" FLATWASHER 2 12 LNC08 1/2" LOCKNUT UNC	6	92067	5/8" x1" BOLT	2
9 90310 1/2" x 96" HOSE 10MORB X 08MNPT 2 10 B5C0840P 1/2" x 2 1/2" Bolt UNC Gr. 5 2 11 FW08P 1/2" FLATWASHER 2 12 LNC08 1/2" LOCKNUT UNC	7	90507	90 deg. SWIVEL ELBOW 60MB 08MB	2
10       B5C0840P       1/2" x 2 1/2" Bolt UNC Gr. 5       2         11       FW08P       1/2" FLATWASHER       2         12       LNC08       1/2" LOCKNUT UNC	8	90216	1/2"x 60" HOSE 08MNPT X 08 MNPT	2
11 FW08P 1/2" FLATWASHER 2 12 LNC08 1/2" LOCKNUT UNC	9	90310	1/2" x 96" HOSE 10MORB X 08MNPT	2
12 LNC08 1/2" LOCKNUT UNC	10	B5C0840P	1/2" x 2 1/2" Bolt UNC Gr. 5	2
	11	FW08P	1/2" FLATWASHER	2
13 FW10P 5/8" FLATWASHER 2	12	LNC08	1/2" LOCKNUT UNC	
	13	FW10P	5/8" FLATWASHER	1 2

Hydraulic Assembly



ITEM	PART NUMBER	DESCRIPTION	N <sub>5</sub>
1	91250	611 Spindle 2" x 10"	<del></del>
1 2 3	91090	611 Seal	l î
	91170	611 Inner Cone LM29749	1 5
	91150	611 Inner Race LM29710	<del>  </del>
5	91700	Grease Nipple 1/8" NPT Straight	;
	91070	611 Hub	1 7
	91060	Wheel Bolt 1/2"	6
	91130	611 Outer Race LM67010	1
	91110	611 Outer Cone LM67048	1
	91190	Washer	<del>-   -</del>
	91210	Castelated Nut	·   i
	CPo324	Cotter Pin 3/16" x 1 1/2"	1
	91230	611 Dust Cap	<del>-   -</del>
14	91008	11L-15LT 8PLY Farm Hiway Serv	7
· ·		<u></u>	1
16	91050	15" x 8" x 6" Wheel Rim	1 1
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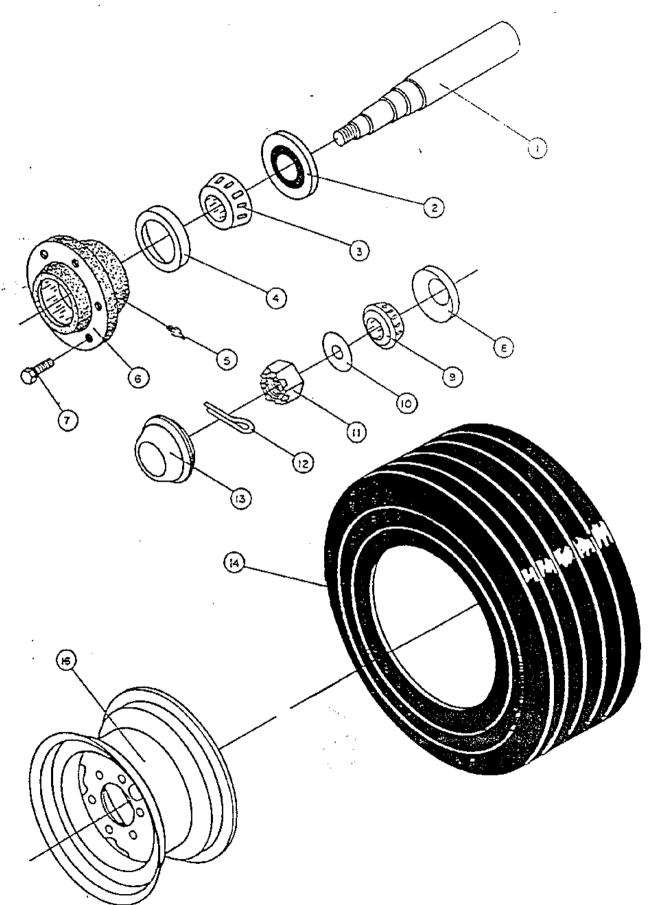
## **4-BOLT** HD211



ITEM	PART NUMBER	DESCRIPTION	NO.
1	90301	3/8" HOSE x 120" 08 FJIC X 08 MNPT	2
2	849FSO0808	08 MORB x 08 MJIC 90 DEG	3
3	849FS0808	08MNPT x 08 MJIC 90 DEG	4
4	90303	3/8 x 15 1/2" 04 MNPT X 06 MNPT	1
5	90302	3/8" x 15" 06 MNPT X 08 MNPT SWIVEL	-1
6	45062	DOUBLE TEE BLOCK .	i
7	90691	PILOT CKECK VALVE PC50	1
8	90272	3/8" HOSE x 24" 08 FJIC X 08 FJIC	1
9	90305	3/8" HOSE x 30 1/2" 06 MNPT X 08 FJIC	2
10	90117	3" X 8" - 1 1/4" SHAFT 3/8" TOP PORT	1
11	90308	3/8 " HOSE x 50" 08 FJIC X 06 MNPT	2
12	90120	3 1/2" x 13" - SHAFT 1/2" TOP PORT	2
13	844FS08	08 MJIC TEE	1
14	92089	FPS VALVE	1
15	90313	3/8" HOSE x 18" HOSE 08 FJIC x 08FJIC	1
16	90118	3" x 10" - 1 1/4" SHAFT 3/8" SIDE PORT	1
17	60UA0404	90 DEG SWIVEL ELBOW 1/4"	1
18	24SA0806	MALE NIPPLE	1
19	60UA0808	1/2 MNPT x 1/2 FNPT 90 deg. Swivel	1
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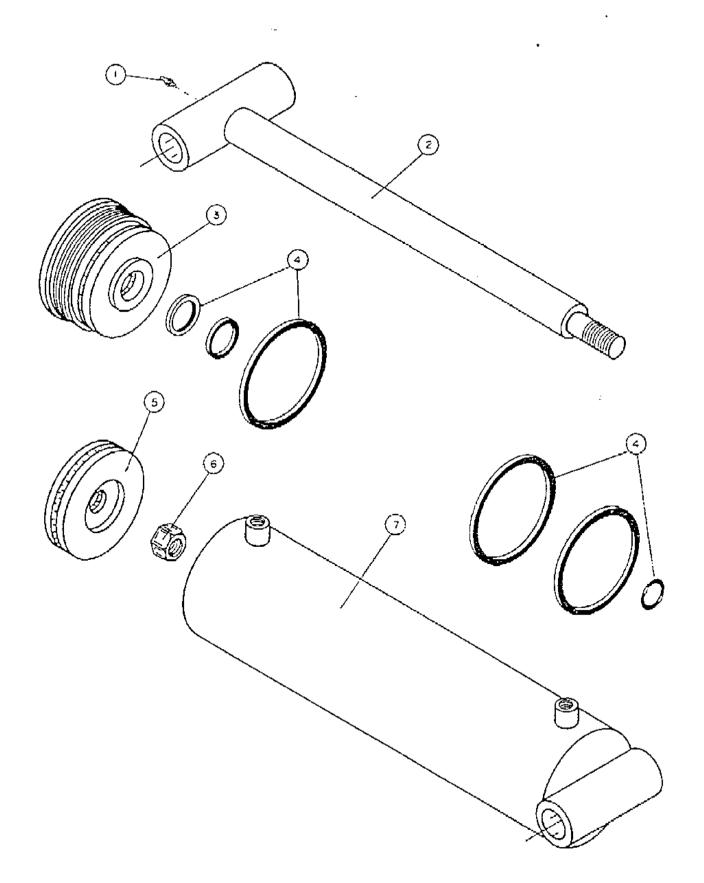
## 611 Hub Sprindle



ITEM	PART NUMBER	DESCRIPTION	Nō
1	301204	1/2" WHEEL BOLT	1
2	301203	HD211 WHEEL HUB	1
3	301205	L44610_RACE	1
4	301206	L44643 BEARING	1
5	301207	SE10 SEAL	1
6	B5C16144P	1 X 9 UNC GR5 PLTD	1
	LNC16	1" UNC LOCK NUT	1
.,7	301208	1" I.D. X 2" L SPACER	1
.8	301209	1" I.D. X 1 1/2" SPACER	1
			4
		•	1
	<u> </u>		1
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-			1



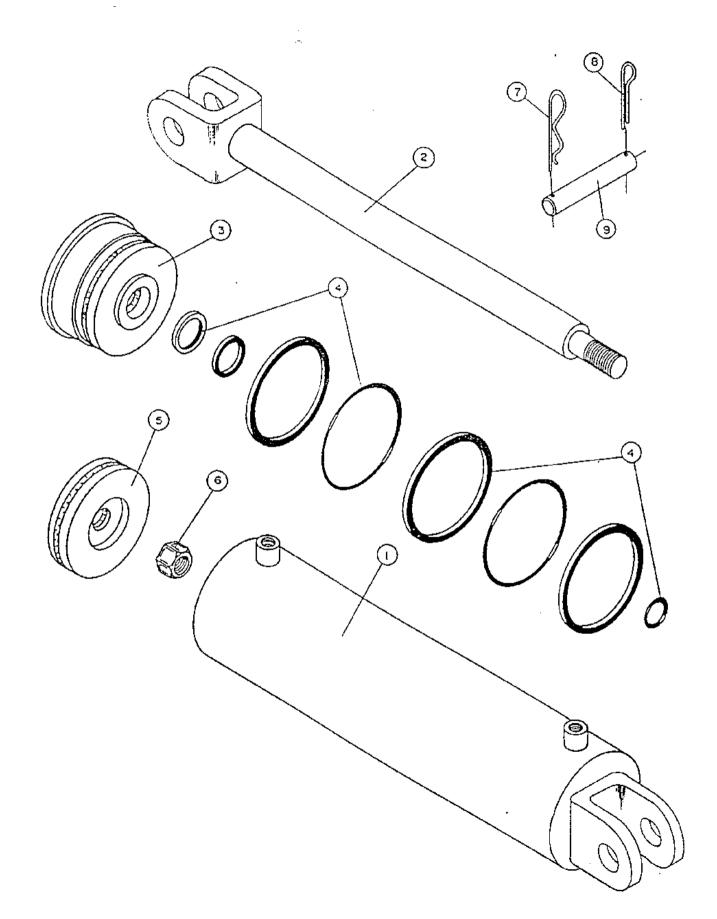
## 3 1/2" X 13" Cylinder



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91700	Grease Nipple 1/8" NPT Straight	1
· 1		1
90662	3 1/2" Cylinder Screw on End Cap	1
90680	Seal Kit 3 1/2"	1
90700	Piston 3 1/2" Cylinder	1
90720	Piston Nut	1 1
90746	3 1/2" x 13 Cylinder Screw on Tube	1
90103	3 1/2" x 13 Cylinder Complete (Tube Ends)	*
	*As Required	·
	90680 90700 90720 90746	90645 Cylinder Shaft c/w Tube End 90662 3 1/2" Cylinder Screw on End Cap 90680 Seal Kit 3 1/2" 90700 Piston 3 1/2" Cylinder 90720 Piston Nut 90746 3 1/2" x 13 Cylinder Screw on Tube 90103 3 1/2" x 13 Cylinder Complete (Tube Ends)



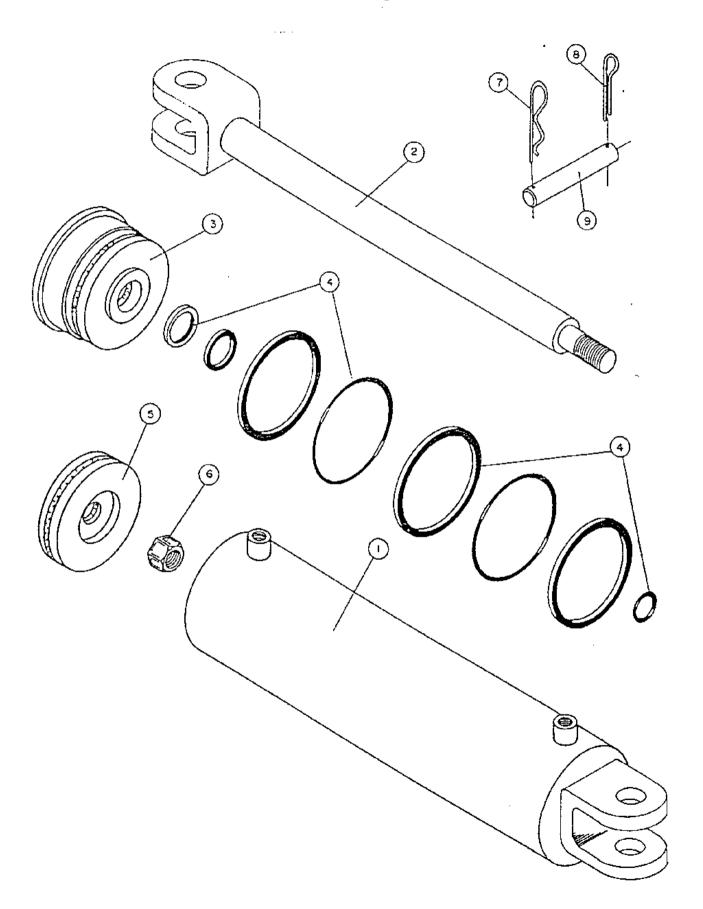
3" x 8" Cylinder



ITEM	PART NUMBER	DESCRIPTION	Nº
1	90748	3" x 8" Cylinder Complete (Tube End)	1
2	90647	3" x 8" Cylinder Shaft c/w end	1
3	90666	3" Cylinder Screw on End Cap	lī
4 5	90684	Seal Kit 3"	<del>                                     </del>
5	90705	Piston 3" Cylinder	1
6	90720	Piston Nut	1
7	HP52	Hair Pin Clip 3 1/4"	2
8	CPO324	Cotter Pin 3/16" x 1 1/2"	2
9	91605	Pin Cylinder 1" x 3 1/4"	2
	90710	3" x 8" Cylinder Complete (Tube End)	*
		*As Required	İ
			1
			1
			1

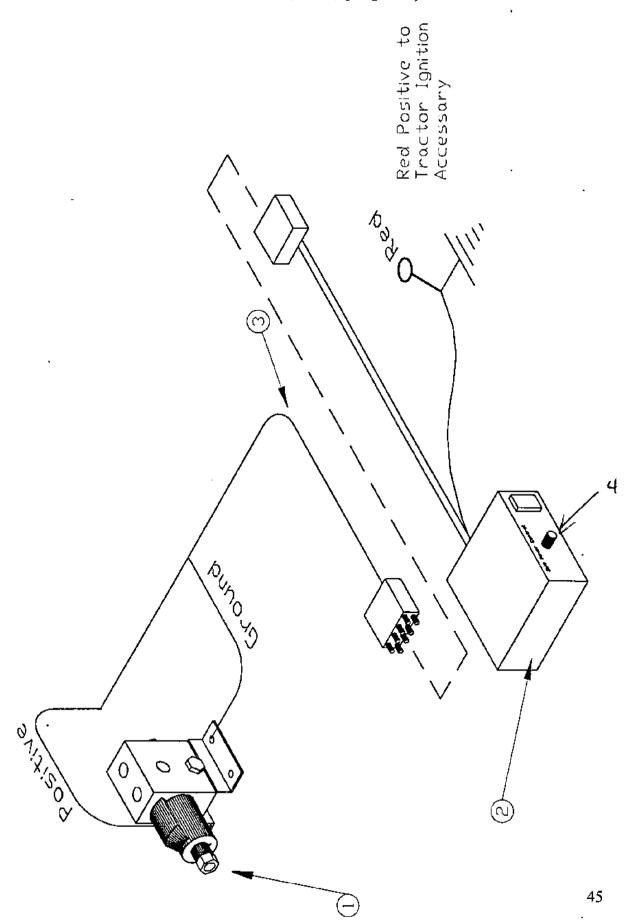


3" x 10" Cylinder



ITEM	PART NUMBER	DESCRIPTION	No
1	90749	3" x 10" Cylinder Screw Tube .	1
2	90648	3" x 10" Cylinder Shaft c/w Tube End	lī
3	90666	3" Cylinder Screw on end Cap	ī
4	90684	Seal Kit 3"	1
5	90705	Piston 3" Cylinder	ī
6	90720	Piston Nut	lï
7	H₽52	Hair Pin clip 3 1/4"	
8	CPO324	Cotter Pin 3/16" x 1 1/2"	2
9	91605	Pin Cylinder 1" x 3 1/4"	2
	90711	3" x 10" Cylinder Complete (Tube End)	*
1	1	,	
			1
1	1		1

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92089	FPS Valve	1
92076	Model 700 Control Box	1
92078	Implement Harness	li
92136	Toggle Switch & way.	1
	92076 92078	92076 Model 700 Control Box 92078 Implement Harness