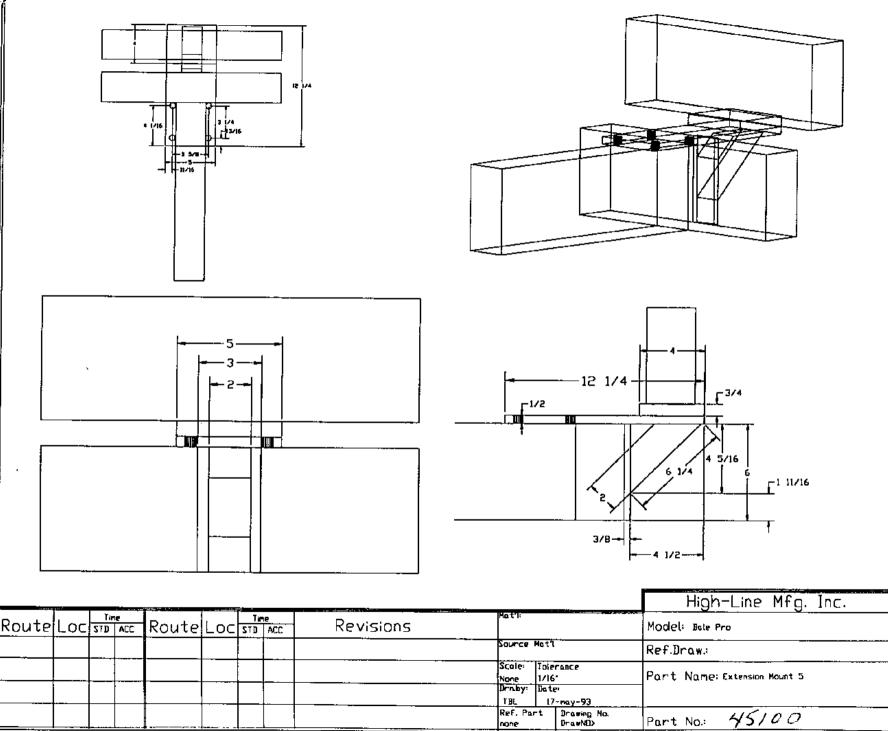
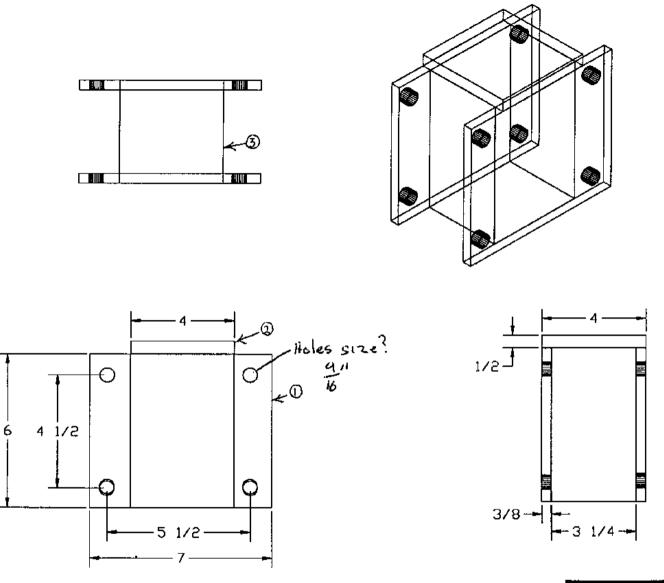
Columbia Balemaster

MODEL 1400

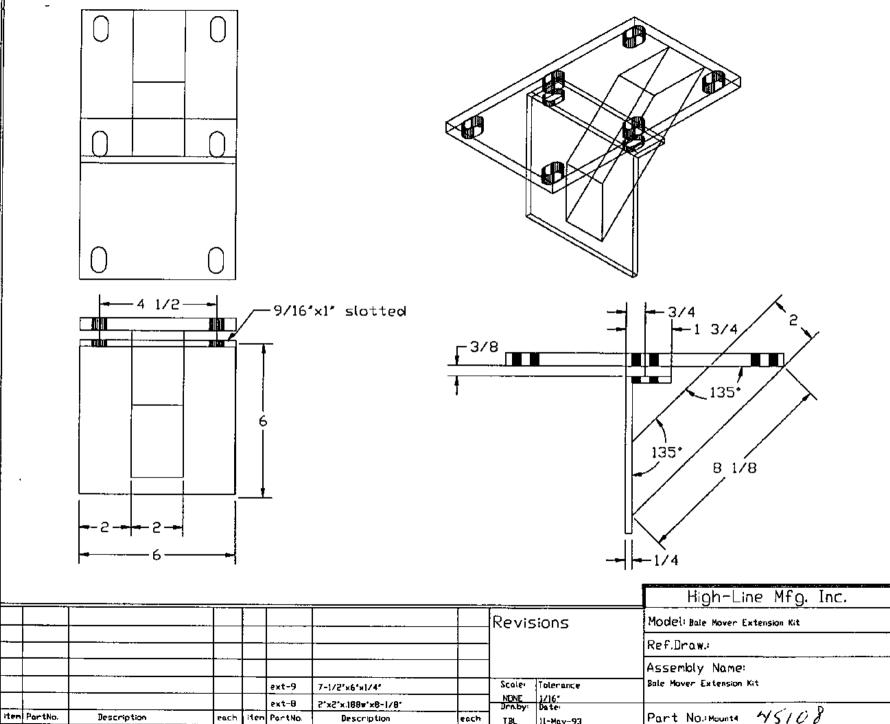
Assembly-Operator Parts Manual

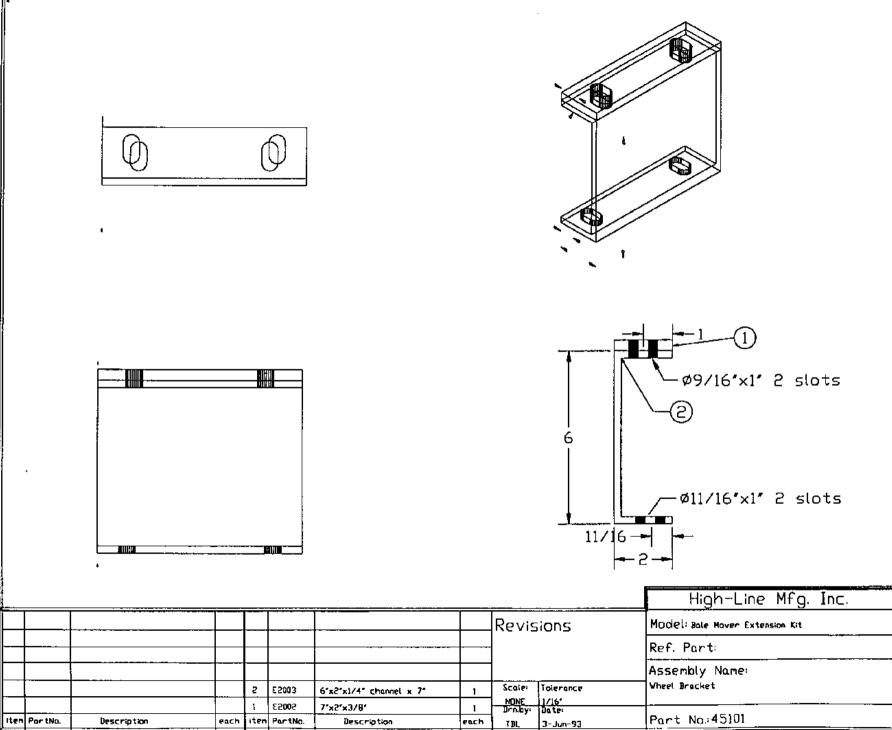


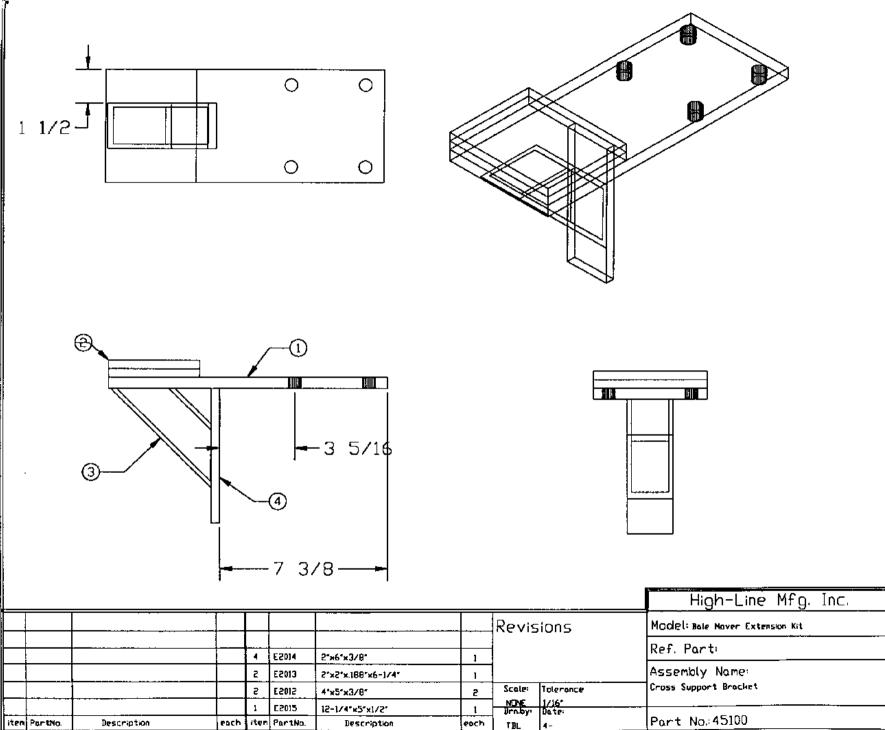


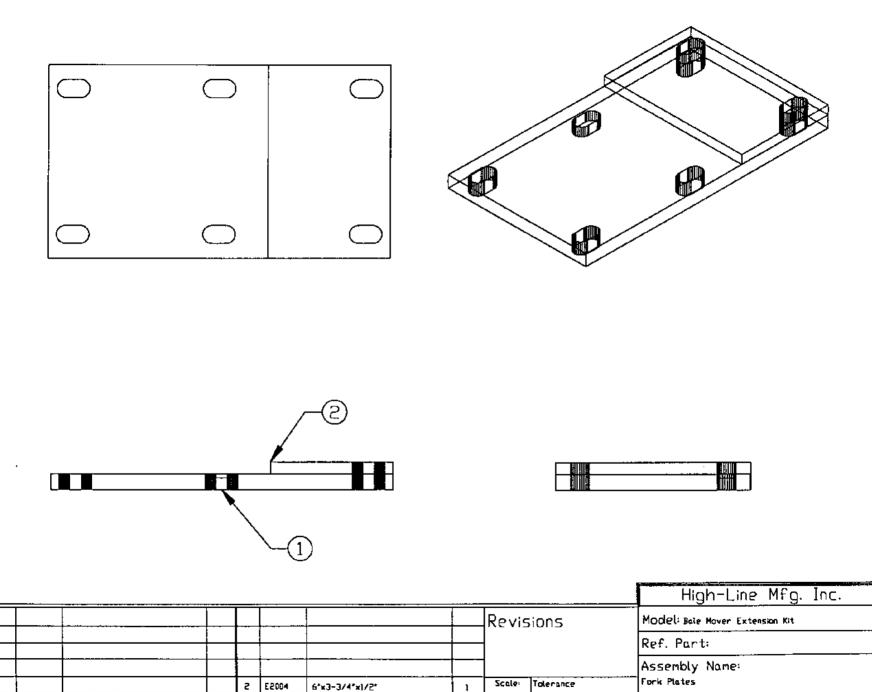
							High-Line Mfg. Inc.
					Revis	ions	Model: Bate Mover Extension Kit
				<u>-</u>			Ref.Draw.:
	 3	ext-7	3'x6'x.188#'x3-1/4"	1			Assembly Name:
	2	ext-6	4"x4"x1/2"	1	Scale:	Tolerance	MOUNT3

item Partho. Description each item Partho. Description each TBL 5-May-93 Part No.: MOUNT3 45/03









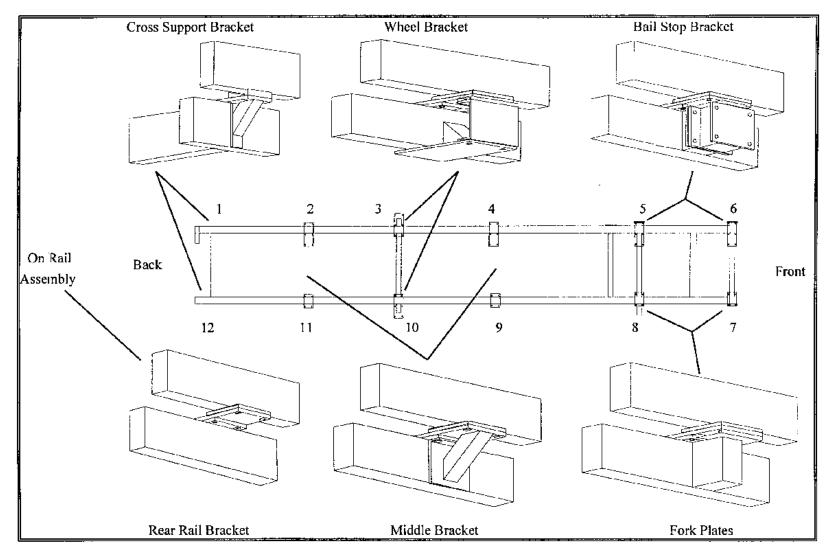


Figure 1 Seven Bale Mover Sub Frame and Extension Brackets

Introduction

The Bale Mover Extension Kit is an easy add on that increases the width between the carrying rails from 31 inches to 39 inches. The kit is available for the five and seven Bale movers. Modifications involve bolting extension brackets to the main sub frame and the rail assembly. Twelve brackets are included and tagged in the extension kit. Figure 2 shows a description of each bracket and Figure 1 shows the brackets required position on a seven bale mover. Where possible use the existing bolts from the sub main frame and rail assembly to attach the extension kit.

Assembly Instructions

- 1. Disengage tractor and disconnect hydraulic lines from tractor.
- 2. Remove the hydraulic line between the rail hydraulic motors. A new 40 inch hydraulic line is supplied.
- 3. Remove bolts from points 1,2,3,4,5,6 (Figure 1) where the rail assembly and the main sub frame are attached. Also unbolt the rear cross support member on the rail assembly (not shown).
- 4. At points 5 and 6, remove the bail stop from the main sub frame.
 - 4.1. Bolt the bail stop brackets to points 5 and 6.
 - 4.2. Bolt the bail stop extension plates to the inside holes of the resting plate with 1/2" x 1-1/2" bolts. Note the difference between the two bail stop plates. The front bail stop plate is 6" wide and the back plate is 7" wide.
- 5. Bolt the bottom holes of wheel mount bracket using a 5/8" x 2" bolt at point 3 (Figure 1). *Note* the orientation of the wheel mount bracket.
 - 5.1 Bolt the 6 "wide wheel extension plate to the inside holes of the resting plate with 1/2" x 2" bolts.
- 6. Bolt the middle brackets to the inside holes of the resting plate with 1/2" x 2" bolts (Points 2 and 4 of Figure 1).
- 7. Mount the cross support bracket at point 1 (Figure 1). The bracket straddles the cross support member of the main sub frame 1/2" U bolts are inserted from the bottom and nuts are attached from the top. Ensure that the vertical plate is secure against the main sub frame.
- 8. Bolt the rear extension plates between the resting plates of the main sub frame and the rail assembly with 1/2" x 2" bolts. (Not shown)
- Once all brackets are bolted securely, bolt the rail assembly to the extension brackets. • <u>Note</u>: Leverage may be required to position rail assembly with the extension brackets.

- 10. The right side of the bale mover is similar to left side except for the fork plates.
 - 10.1 Bolt the fork extension plates to point 7 and 8 (Figure 1). These plates rest on the stubs attached to the bale forks. *Note* the difference between the two bale stop plates. The front plate is 6"wide and the back plate is 7" wide.
 - 10.2 Bolt the rail assembly frame to the fork extension brackets.
- 11. Secure all bolts.
- 12. Bolt the bail stop to the bail stop brackets.
- 13. Connect supplied hydraulic hose between rail hydraulic motors.
- 14. FINISHED

Table 1 Part List for Seven Bale Mover Extensions

Part NO.	Description	Quantity
		"-
₁ ∕45100	Cross Support Bracket	2
√45101	Wheel Bracket	2
45102	Wheel Bracket Plate	2
√45103	Bale Stop Bracket	2
45102	Bale Stop Bracket Front Plate	1
45104	Bale Stop Bracket Back Plate	1
45105	Front Fork Plate	1
√45106	Back Fork Plate	1
√45108	Middle Bracket	4
45102	Rear Rail Plate	2
	40* Hydraulic Hose	1
	U bolt 1/2" diam.x7" - 3 in. space	4
	Lock Nut 1/2"	16
	Boit 1/2"x1-1/2"	8
	Bolt 1/2" x 2"	16
	Bolt 1/2"x2-1/2"	8
	Bolt 5/8"x2"	4
	Washer 1/2"	4



TO THE OWNER:

Congratulations on the purchase of your new HIGH-LINE 1400 BALE MOVER.

Constructed of the finest quality materials, your HIGH-LINE 1400 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 1400 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 1400 Bale Mover

TABLE OF CONTENTS

ITEM	PAGE
Letter to Owner	
Policy	•
Safety	. 1
Specifications	. 2
Assembly	. 3
Trouble Shooting	. 22
Operation	. 23
Parts Catalogue	. 24
Parts Index	. 45
Warranty	,

NOTE: Serial Number H4471 and Up JUNE 1990



Safety

A CAUTION

STAY CLEAR OF
WAGON BED WHILE
MACHINE IS OPERATING

801

LEFT SIDE OF FRONT SUB FRAME



6321

RIGHT SIDE OF FRONT SUB FRAME

A CAUTION

KEEP HANDS AND CLOTHING AWAY FROM MOVING CHAINS. STOP MACHINE BEFORE MAKING ADJUSTMENTS.

8014

RIGHT SIDE OF FRONT SUB FRAME

A CAUTION

FOR ADJUSTMENT
SEE
OPERATOR'S MANUAL.

LEFT SIDE OF FRONT SUB FRAME

A CAUTION

BALE WAGON IS IN TRANSPORT POSITION.

8015

A CAUTION

MAXIMUM 5000 POUNDS

8018

ON RIGHT A-FRAME HITCH

ON OUTSIDE BED RAILING

Specifications

SHIPPING WEIGHT 7500 lbs.
TOTAL LENGTH 42'
BED LENGTH 37'
TOTAL WIDTH 15'
BED WIDTH 11'
TOTAL HEIGHT 9'2"
BED HEIGHT 2'8"
GROUND CLEARANCE 14"
MAXIMUM CAPACITY 14 - 5 Ft. Bales
CONVEYOR CHAIN Heavy Duty ASA 2062, 1 1/2 Pitch
TIRES 8 - 9.5L x15x8 ply c/w tube & 40 PSI Highway Service
UNDERCARRIAGE 2 - four wheel oscillating tandems
HORSEPOWER REQUIRED 90 Horsepower
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

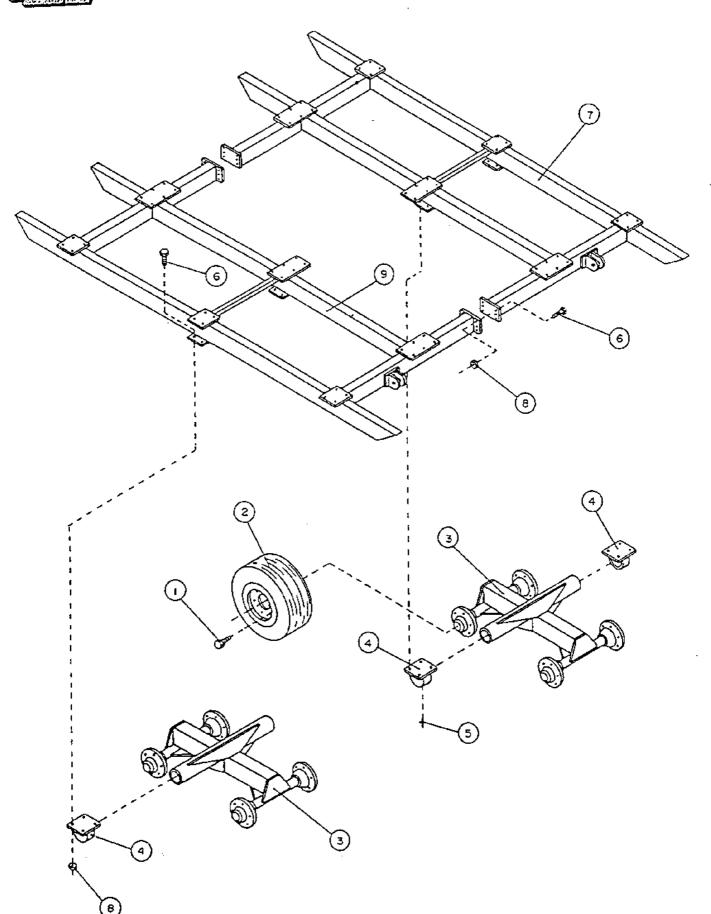
Before beginning assembly of the Bale Mover, have the following equipment on hand:

- 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

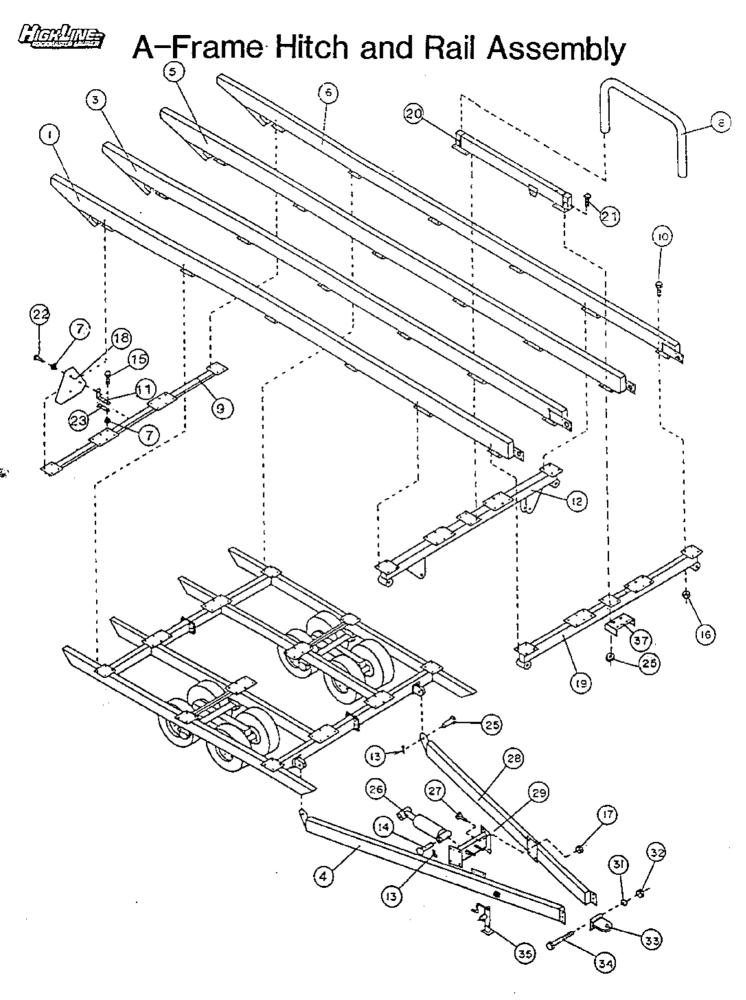




ASSEMBLY OF OSCILLATING TANDEMS TO SUB FRAME

To assemble oscillating tandems to sub frame.

With sub frame bolted together, raise one end of frame with enough clearance to roll complete tandem axle with wheels and pockets mounted. Line up to sub frame plate and fasten with $1/2" \times 1 \ 1/2"$ bolt and locknut. Install grease nipple #5.



A-FRAME HITCH TO SUB FRAME

- Position Right #4 and Left #28 A-Frame Hitches to sub frames.
 Secure with 1 1/4" x 3" pins #25 and cotter pins #13.
- 2. Assemble hitch cross member #29 to left and right hitches with 5/8" x 1 1/2" bolt #27 and locknut #17.
 NOTE: CROSS MEMBER BOLTS IN FRONT OF BRACKET ON HITCH.
 CAUTION: WHEN BOLTING PREASSEMBLED VALVE ASSEMBLY TO HITCH CROSS MEMBER. EXTREME CAUTION MUST BE TAKEN SO AS NOT TO DAMAGE HOSES OR LINES.
- 3. Install hitch plate #33 on lower holes to left and right hitches using 1" x 7 1/2" bolt #34, lockwasher #31 and nut #32.
- 4. Tighten bolts on hitch cross member.
- 5. Install hitch jack #35 to right A-Frame hitch.

INSTALLATION OF RAILS

NOTE: Rails are identified by part numbers painted on front of rails.

- #1 Outside Right Part #40069
- #3 Inside Right Part #40068
- #5 Inside Left Part #40067
- #6 Outside Left Part #40066
- 1. With hoisting equipment, place rails on sub frame and fasten with $1/2 \times 1 \ 1/2$ " bolt #10 and locknut #16.
- For inside rails, place them closest to the outside frame, on bolting plates. Secure them with 1/2 x 1 1/2": #10 and locknut #16.

CAUTION: DUE TO LENGTH OF RAILS, TO AVOID DAMAGE AND PERSONAL INJURY, CAUTION SHOULD BE EXERCISED WHEN LIFTING MEMBERS INTO PLACE.

INSTALLATION OF 4 x 6 CROSS MEMBER

1. Place 4 x 6 cross member #12 onto A-Frame hitch with square pocket towards front. Secure to bolting plates on rails with 1/2 x 1 1/2" bolts #10 and locknut #16.

INSTALLATION OF 3 x 6 CROSS MEMBER

- NOTE: To install 3 x 6 cross member left A-Frame hitch in a horizontal position with the sub frame. This will facilitate installation of rails.
- 2. Place deck cylinder tube #20 in between #12 and #19 cross members. Fasten with $1/2" \times 1 \, 1/2"$ bolts. Cylinder lug should be 24" from front plate.
- 3. Install grease fittings to cross members.

INSTALLATION OF CHANNEL CROSS MEMBER

- Place channel cross member #9 under rails with bolting plates upwards. Secure to plates on rails with 1/2 x 1 1/2" #10 and locknut #16.
- Bolt slow moving vehicle sign #43 to brackets #41 and #23 to centre of cross member #40 with 1/4" x 2 1/4" bolts.

INSTALLATION OF BALE DIVIDER

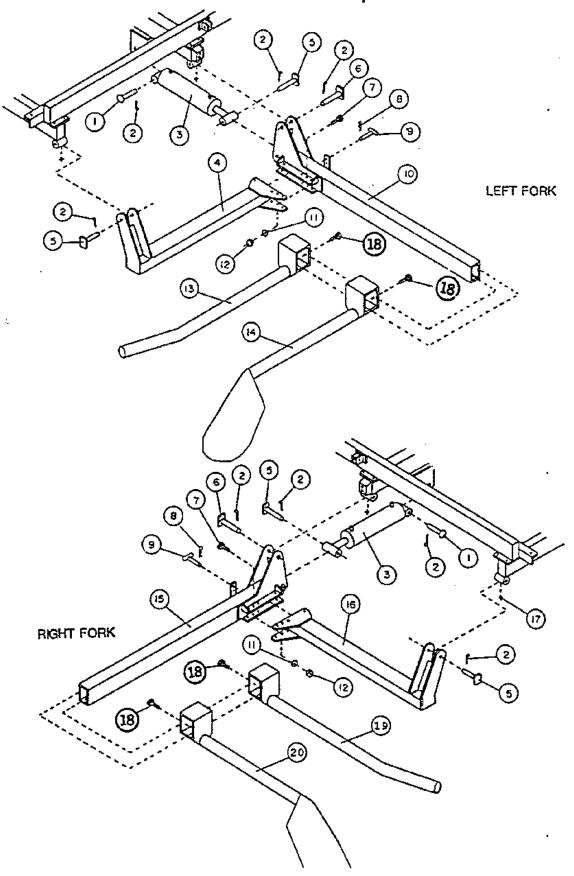
1. Place bale divider #8 in pockets on bale divider tube #20.

INSTALLATION OF TILT CYLINDER

Install 3" x 16" cylinder #26 to A-Frame hitch cross member #29.
 Secure cylinder to cross member with 1" x 6" pin #14 and cotter pin #13. Make sure port holes are in down position.

NOTE: Restricted elbow should be installed in bottom port of cylinder.

Fork Assembly



INSTALLATION OF BALE FORK FRAME TO SUB FRAME

- Place pivot slide arm left #10, part #40017 and right #15 part 40018 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.
- Place pivot arm left #4, part #40011 and right #16, part #40012 under 3 x 6 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. Doing the same to left slide arm and left pivot arm.

INSTALLATION OF FORK TEETH

- Lift and block pivot slide arm about four to six inches above ground. Slide left fork #13 onto the frame. Tighten 1 x 2" bolt #18. Next slide front fork #14 onto the frame. Tighten 1 x 2" bolt #18.
- Repeat step #1 with right forks, items #19 and #20.
- 3. To adjust fork teeth place fork in locked transport position. Adjust inside fork tooth 6" higher than outside rail. Tighten bolts. Depending on bale side and conditions adjust outside fork tooth to suit round bale.

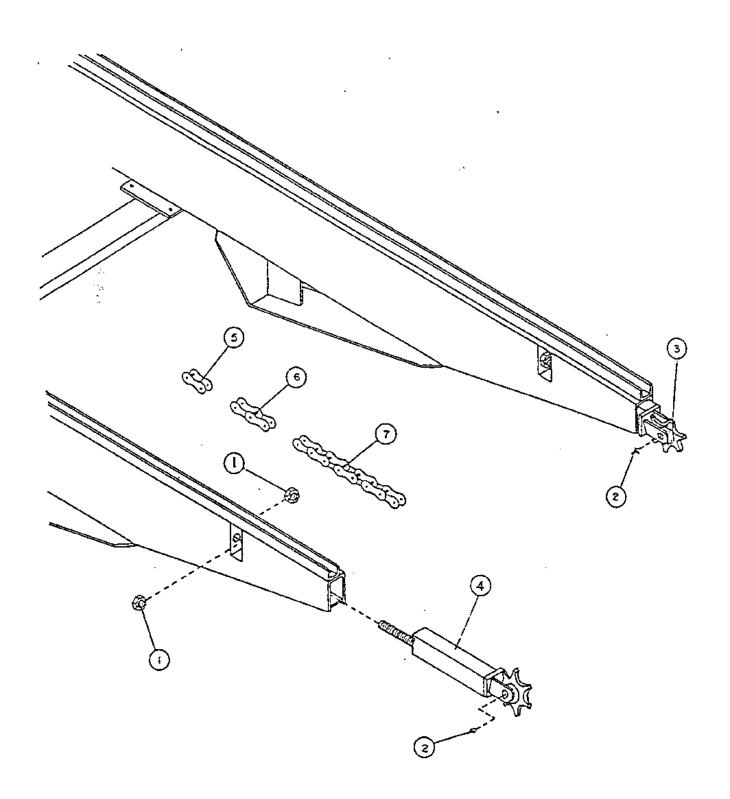
FORK CYLINDER INSTALLATION

- Secure 3 1/2" x 13" cylinder, base plate of cylinder in cylinder gussets on 4 x 6 cross member. Secure with 1"x6" 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.



Chain Tightener

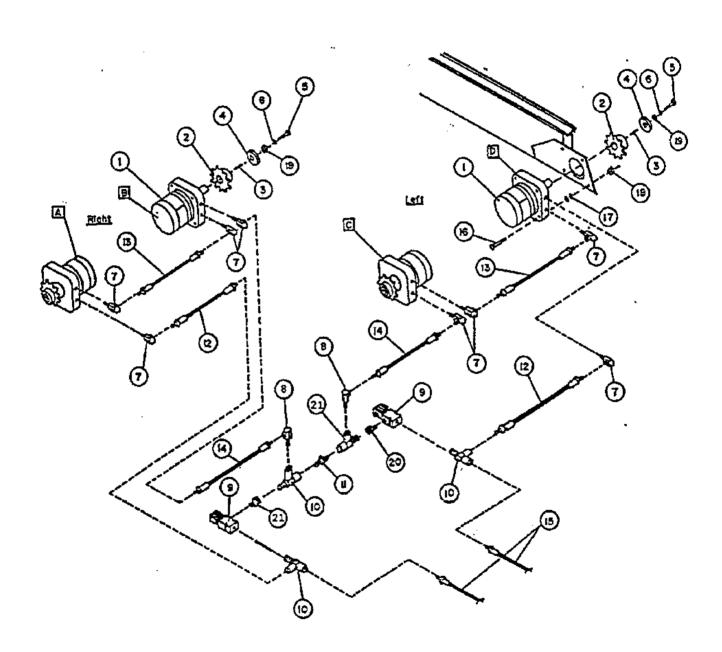




ROLLER CHAIN INSTALLATION

- 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.

Hydraulic Motors



HYDRAULIC MOTORS

- Secure hydraulic motor #1 to rails #40066 to 40069, as shown on page 7, complete with 1/2" x 2 1/2" bolts #16, and 1/2" locknut #18.
- NOTE: The 1/2" washers #17 are supplied to shim motor to centre sprocket with channel, if required.
- Place sprockets #2 and keystock #3 on shaft of hydraulic motor. Install end washer #4, 5/8" flatwasher #19, 5/8" lockwasher #6 and bolt 5/8" x 1" NF #5.
- 3. Install swivel elbow #7 to all motors.

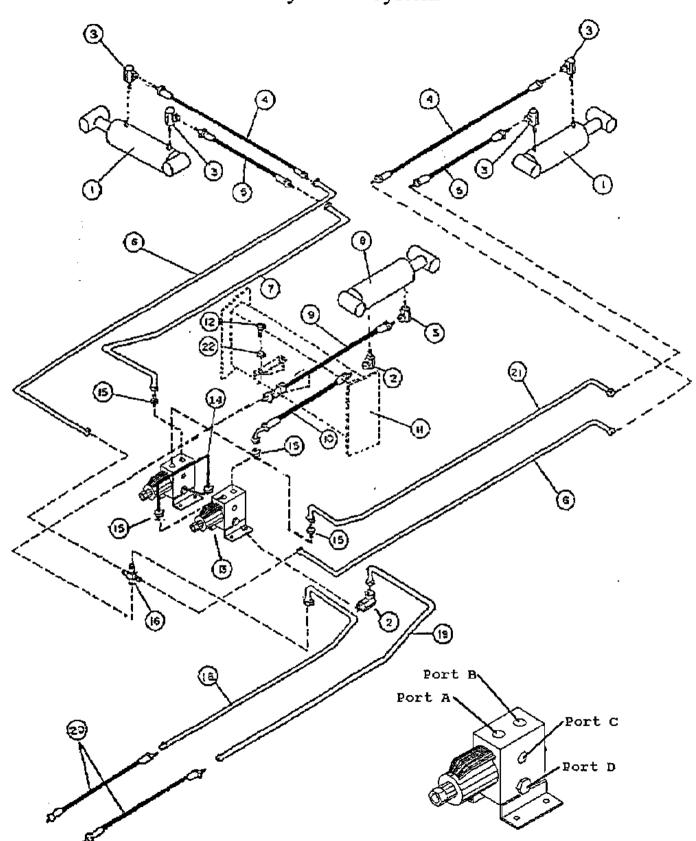
CARTRIDGE VALVE ASSEMBLY

- 1. Secure street tees to both ports of cartridge valve.
- 2. Attach two street tees with 1/2" adaptor #11. These tees also have swivel elbow #8 in the last port.
- 3. Cartridge valve is secured to guard #40076 as shown on page 7.

HYDRAULIC HOSES

- 1. Secure hose #13 to top port of motor A, opposite end to bottom port of motor 3.
- 2. Secure hose #12 to bottom port of motor A, opposite end to right side of street tee #10.
- 3. Secure hose #14 to top port of motor B, opposite end to swivel elbow #8.
- 4. Secure hose #13 to top port of motor C, opposite end to bottom port of motor D.
- 5. Secure hose #12 to top port of motor D, opposite end to left side of street tee #10.
- 6. Secure hose #14 to bottom port of motor C, opposite end to swivel elbow #8.
- 7. Hose #15 attaches to front street tees #10, then to tractor.

Hydraulic System



INSTALLATION of HYDRAULIC HOSE and LINES

NOTE: When finished installing hydraulic hoses and lines to preassembled valve assembly, make sure to follow set-up as shown on opposite page. If set-up is done improper, hydraulics will not work.

- 1. Install hydraulic lines #18 and #19 along front of left A-Frame hitch. Placing hydraulic lines #19 just in front of A-Frame cross member. Attach hydraulic lines #18 to flare adapter #16. Fasten the two hoses #20 to hydraulic line #18 and #19.
- 2. Secure swivel elbows #3 to left and right fork cylinder #1. Elbows should be facing down cylinder as shown. Attach hoses #4 and #5 to swivel elbows with longer hoses to top ports. Lay hydraulic lines #6 and #21 for left side along A-Frame hitch, #6 lines to the cross #16. The hydraulic hose #4 and #5 attach to the lines #6, #7 and #21. Install line #7 to Port B of the right solenoid. Line #21 attaches to Port A of the of the right solenoid and line #19 attaches to Port D of the left solenoid. Install line #14 between Port D of the right solenoid and Port A of the left solenoid.

Note: Ports C and D go directly through, so lines may attached to either side of the solenoid

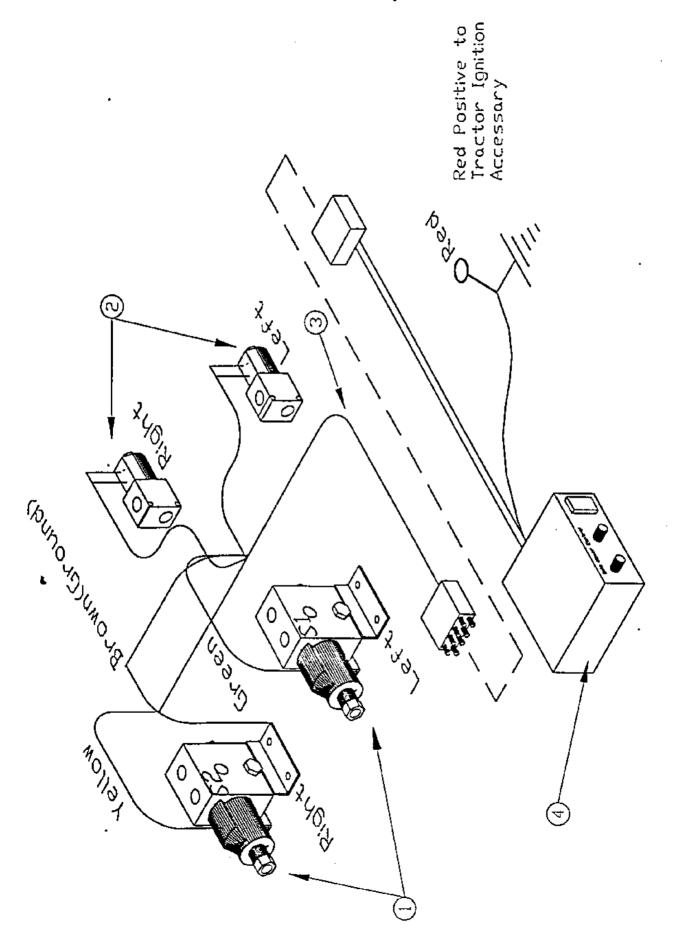
3. Secure swivel elbows #2 and #3 to tilt deck #8 with swivel elbows restricter #2 in bottom port. Connect pre assembly hoses #9 and #10 under cross member #11, line #10 goes to Port B of the solenoid. Hose #9 is connected to swivel elbow #3 and is attached to the bottom of #16.

PRE-OPERATION ASSEMBLY

CAUTION: To fill hydraulic hoses and cylinders with oil, proceed as follows:

- 1. Install fittings to hose ends. Connect hydraulic hoses to tractor.
- With forks still in down position, carefully operate controls allowing oil to flow to each fork cylinder.

3. Before disconnecting hydraulic hoses, raise bale forks to the transport position. Install safety pins.



ELECTRICAL SYSTEM

Electrical harness if a four cord system,

- 1. The brown line is ground and should be bolted to one of the solenoid bases.
- 2. The yellow line connects to the right solenoid.
- The green line connects to the left solenoid.
- 4. The remaining to line operate the rail chains. Lines are labeled left and right and need to be connected their respective cartridge valves.
- 5. The control box plugs into line #3 and the secondary line has a positive(red wire) and a negative to be connected respectively on the tractor

Trouble Shooting



SY	MPTON	PROBABLE CAUSE	REMEDY
1.	Loads only 14 Bales or less	*Reversing too far leaving gap between bales	*Pack bales on mover closer
		*Depending on bale type	*Will accept 14-5' bales
2.	Strings cut when unloading	*Tractor chain speed not synchronized	*Keep tractor and chain speed constant
3.	Chain falls from track	*Chain not tight enough	*Tighten chain as on Page 14
		*Forks too low	*Raise inside lift fork so bale will clear outside rail when loading
4.	Chains twist or lean	*Pressure from bales caused by side loading	*Straighten with bar
		· •	*Raise lower fork so bale will clear side rail
5.	Bed deck does not raise	*Low oil	*Check tractor reservoir
		*Poor electrical connection	*Check wiring
		*Needs cyliner seal kit	*Replace kit in cylinder
		*Too may bales in front of deck	*Move bales to rear of deck than raise deck
6,	Switches work in opposite direction	*Improper hydraulic hook-up	*Reverse hydraulic lines from tractor outlet
		*Improper electrical hook-up	*Check manual and colour codes on wires to solenoid

Operation

OPERATION

- A. Operate Bale Mover only from tractor.
- B. The model H-4290 LAURIER BALE MOVER is designed for maximum work efficiency with minimum 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 90 HP class or larger and must have a good hydraulic working system, 2000 PSI with 15-20 gallons per minute.

MODE OF OPERATION

The H-4290 LAURIER BALE MOVER is designed to pick up and transport 14 - 5 foot bales. Follow the mode of operation below.

CAUTION: BEFORE OPERATING HYDRAULICS, REMOVE LIFT FORK SAFETY PINS, ONLY IF CYLINDERS ARE LOADED WITH OIL.

- 1. 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 loaded bales just far enough to make space to load next bale. Repeat Step 1.
- The loading of one side then the other side is possible with electrical controls which control each side separately.

TRANSPORTING BALES

To transport loaded Bale Mover.

CAUTION: WHEN TRANSPORTING BALE MOVER ON PUBLIC ROADS OR HICHWAY, BE SURE TO INSTALL LIFT FORK SAFETY PINS. BE SURE THAT THE MACHINE IS EQUIPPED WITH A SLOW MOVING SIGN THAT IS CLEARLY VISIBLE FROM THE REAR.

UNLOADING BALES

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

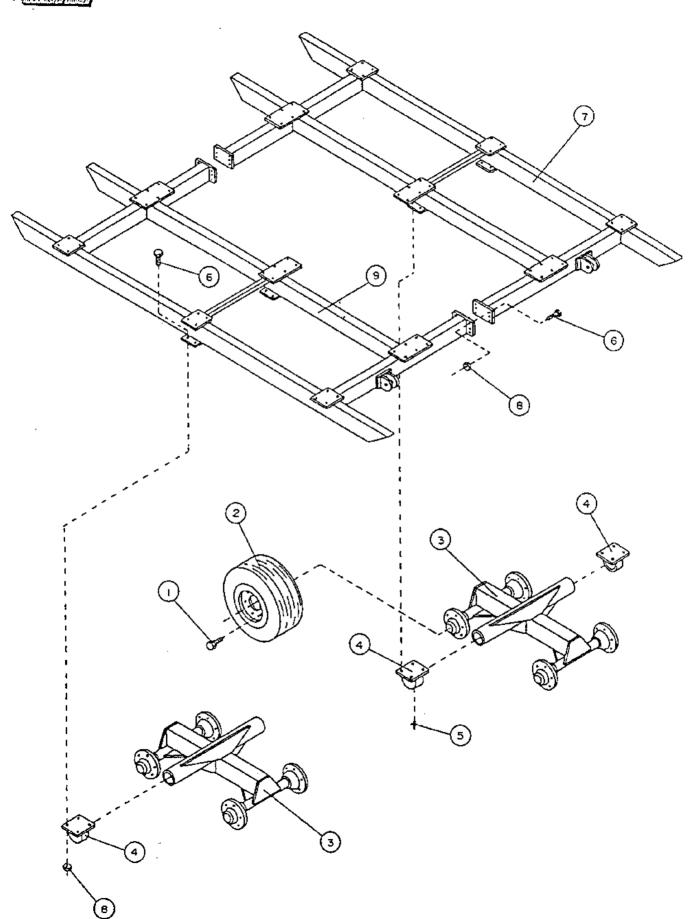
CAUTION: BE SURE TO REMOVE LIFT FORK SAFETY PINS BEFORE OPERATING HYDRAULICS.

- 1. Set the toggle switches to the center position on your control panel. Raise the mover bed to full extended height.
- Engage motors and advance tractor at the ground speed equal to the chain speed.
- IMPORTANT: THE SPEED OF TRACTOR ADVANCEMENT AND CHAIN SPEED MUST BE KEPT CONSTANT, OTHERWISE THE DRIVE CHAIN WILL CAUSE IMPROPER BALE SPACING.

PARTS CATALOGUE

ITEM	PAGE
Main Sub Frame	25
618 Hub and Spindle	27
A-Frame Hitch & Rail Assembly	29
Fork Assembly	31
Chain Tightener	33
Hydraulic Motor Assembly	35
Hydraulics System	37
3" x 16" Cylinder (Ram)	39
$3\frac{1}{2}$ " x 13" Cylinder (CTD)	41
Electrical Hook-up	43

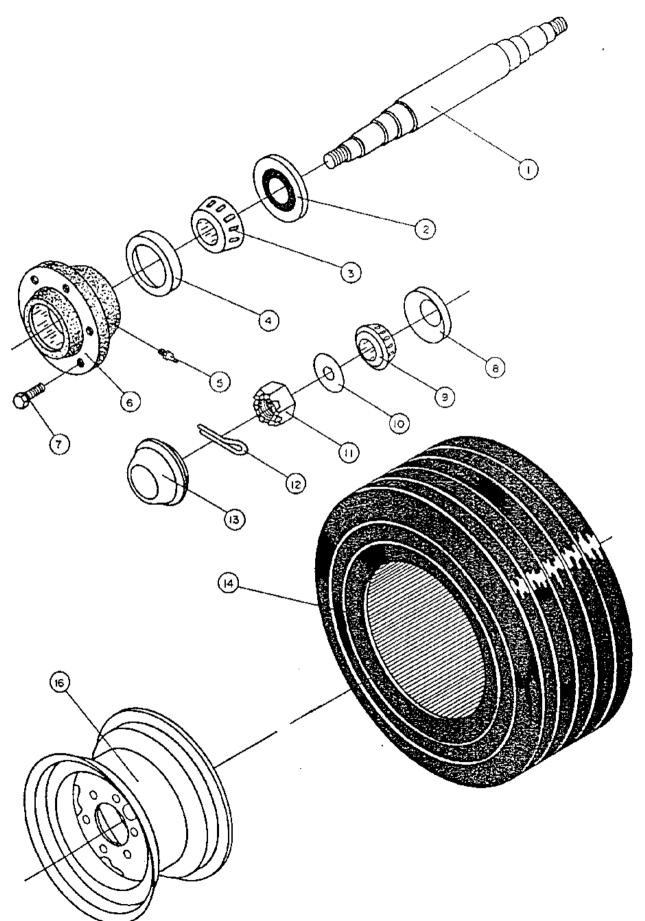
Main Sub Frame



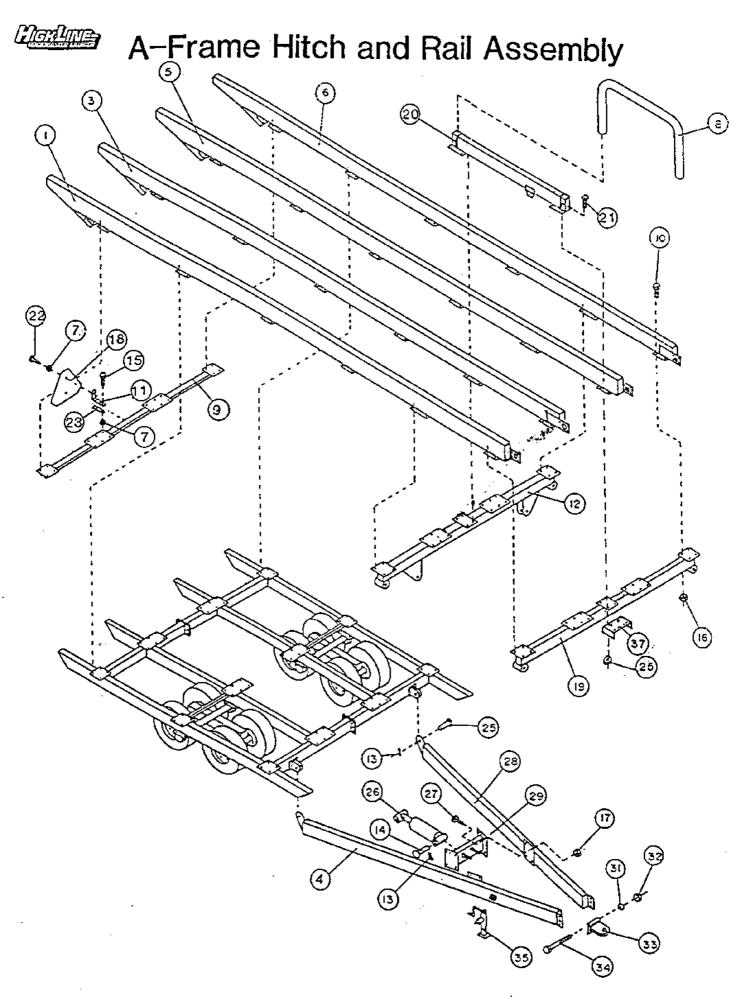
ITEM	PART NUMBER	DESCRIPTION	₩9
1 2 3	91061 9 <u>1008</u> 40025	9/16" Wheel Bolts 11-151t 8ply Farm Hiway Service Tire Walking Beam	4 8 8 2
4 5 6	40024 91700 B5C0824P	Walking Beam Pockets Grease Nipple 1/8" NPT Straight Bolt 1/2" x 1 1/2"	2 4 4 28
7 8 9	40060 LN5C08P 40061	Left Main Sub Frame Locknut 1/2" Right Main Sub Frame	1 28 1
	:		
	:		



618 Hub and Spindle

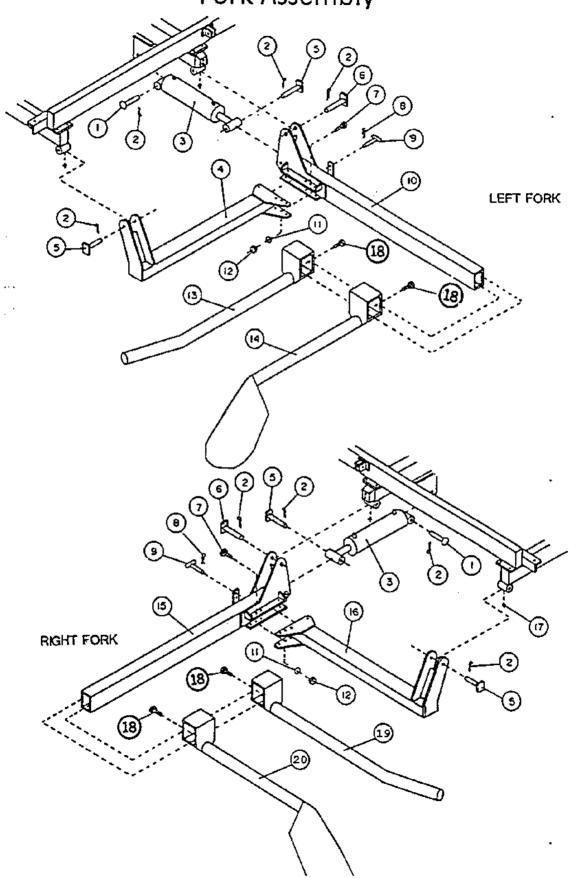


ITEM	PART NUMBER	DESCRIPTION	N ₅
1	91255	2" Dia Dual Spindle x 25"	1
2	91091	618 Seal	2
3 4	91171	618 Inner Cone 1M25580	2
4	91151	618 Inner Race LM25520	2
5	91700 91071	Grease Nipple 1/8" NPT Straight 618 Hub	
<u>6</u> 7	91061	Wheel Bolt 9/16"	2 2 12
8	91131	618 Outer Race LM48510	
9	91111	618 Outer Cone LM48548	2 2 2
10	91190	Washer Hub	2
11	91210	Castlelated Nut	2
12	CP0324	Cotter Pin 3/16" x 1 1/2"	2
13	91231	618 Dust Cap	2
14	91008	11-151t 8ply Farm Hiway Service	2 2
16	91050	15" x 8" x 6 Wheel Rim	2
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ITEM	PART NUMBER	DESCRIPTION	Nō
1	40069	Right Outside Rail	1
3	40068	Right Inside Rail	1 1
4	40063	Right A-Frame Hitch	1
5	40067	Left Inside Rail	1
6	40066	Left Outside Rail	1 i
7	LN5C04P	Locknut 1/4"	4
8	40075	Bale Divider	1.
9	40006	Rear Channel Cross Member	1
10	B5C0824P	1/2 X 1 1/2" Bolt	96
11	40040	Slow Moving Sign Bracket	1
	40064	4" x 6" Cross Member Cotter Pin 1/4" x 2 1/2"	1 4
13 14	CP0440 40009	Cotter Fin 1/4 x 2 1/2 Cylinder Bracket Pin	1 2
15	B5C0436P	Bolt 1/4" x 2 1/4"	2 2
16	LNC08P	1/2" Locknut	96
17	LN5C08P	Locknut 1/2"	g l
	92028	Slow Moving Sign	1
19	40065	3" x 6" Cross Member	1
20	40072	Bale Divider Tube	1
	B5C0824P	Bolt 1/2"' x 1 1/2"	8
22	B5C0412P	Bolt 1/4" x 3/4"	2
23	40054	Slow Moving Sign Bottom Bracket	1
			8
25	40003	A-Frame Hitch Pin 1 1/4" x 3"	2
26 27	90109 B5C1024P	Cylinder 3" x 16" Bolt 5/8" x 1 1/2"	8
28	40062	Left A-Frame Hitch	1
29	40071	A-Frame Centre Member	î
30	92003	Serial Number Plate	li
31	W16P	Lockwasher 1"	2
32	N5C16P	Nut 1"	2
33_	45058	Hitch Tongue	1
34	B5C16120P	Bolt 1" x 7 1/2"	2
35	92033	Hitch Jack (5000 lbs)	1
<u></u>	140076	Little Control Control	1
37	40076	Hydraulic Support Guide	1
	45060	Double Hitch Tongue (Optional)	
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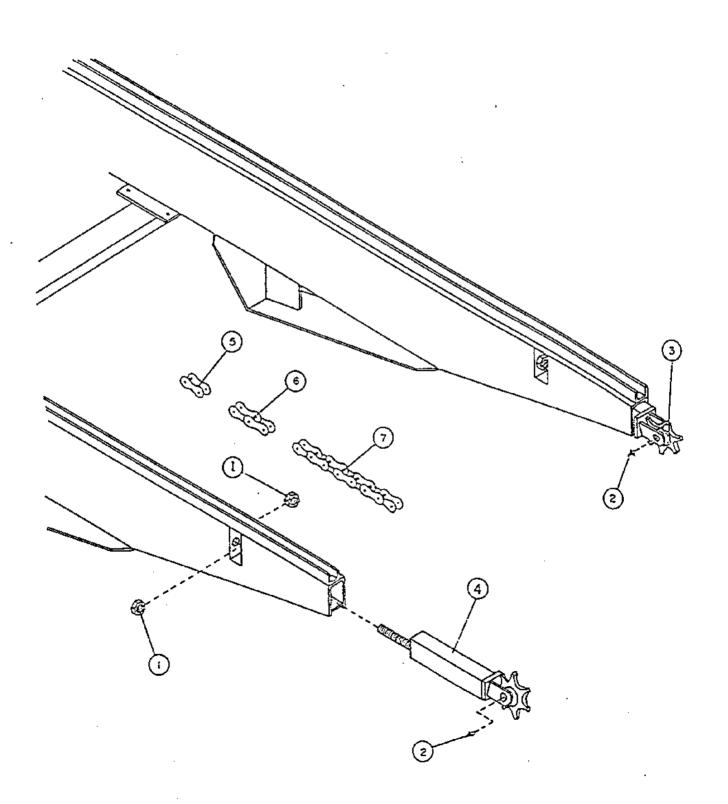
Fork Assembly



ITEM	PART NUMBER	DESCRIPTION	Nº
1 2 3	40009 CP0440 90108	Cylinder Bracket Pin Cotter Pin 1/4" x.2 1/2" Cylinder 3 1/2" x 13" Barrel	2 8 2
	40011 40008 40010	Left Pivot Arm Front Pivot Arm Pin Pivot Slide Arm Pin	1 4 2
7 8 9	B5C1024P HP40 40019	Bolt 5/8" x 1 1/2" Hair Pin Clip 2 1/2" Pivot Slide Arm Lock Pin	12 2 2
11 12	40017 W10P N5C10P	Left Pivot Slide Arm : Lockwasher 5/8" Nut 5/8"	1 16 16
15	40082 40081 40018 40012	Left Short Fork Tooth Left Paddle Fork Tooth Right Pivot Slide Arm	1 1 1
17 18	91700 B5C1632P	Right Pivot Arm Grease Nipple 1/8" NPT Straight 1%x 2" Bolt	1 4 4
19 20	40080 40079	Right Short Fork Tooth Right Paddle Fork Tooth	1
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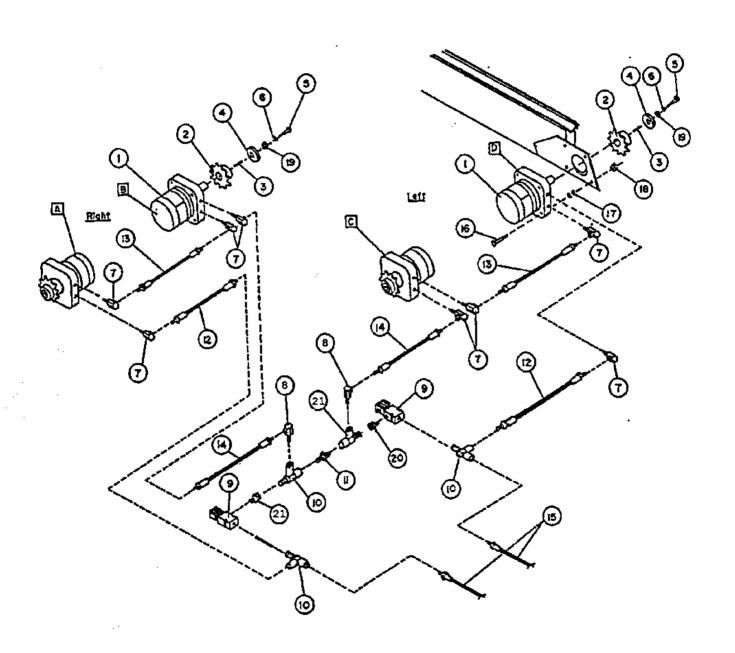


Chain Tightener



ITEM	PART NUMBER	DESCRIPTION	Nō
1 2 3	N5C10P 91700 40073	Nut 5/8" Grease Nipple 1/8" NPT Straight Right Chain Tightener	4 . 2 . 2
4 5 6	40074 91511 91510	Left Chain Tightener 2062 Half Link 2062 Connecting Link	*
7	91508	2062 Chain c/w Connecting Link * As Required	8

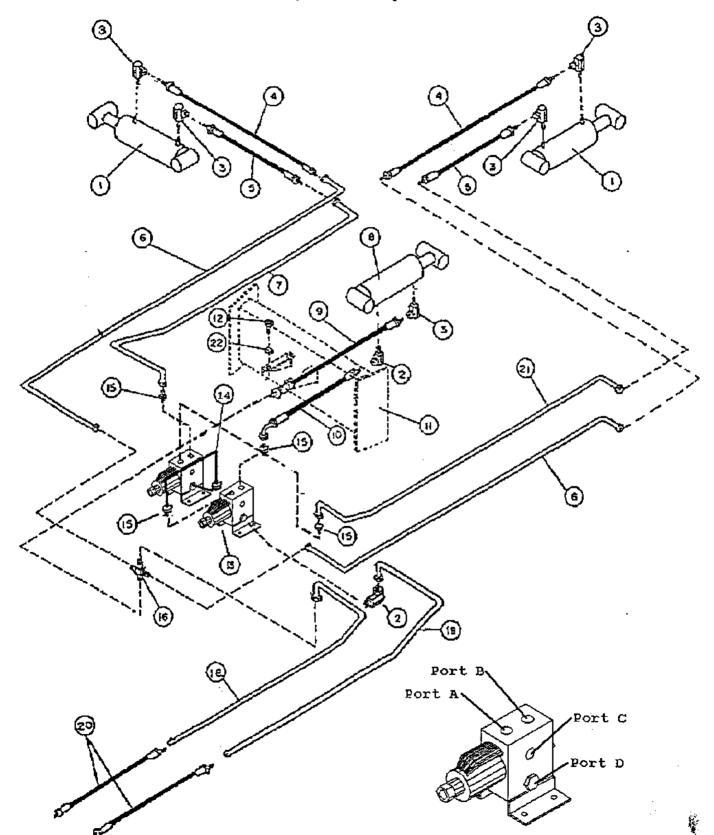
Hydraulic Motors



ITEM	PART NUMBER	DESCRIPTION	I NO
1	92066	Hydraulic Motor oeal Kit 601305	NO.
2	92063	C-2062-10 Tooth Sprocket	4
3	40078	5/16" Key Stock	4
4	40077	End Washer	4
5	92067	Bolt 5/8"x1" NF	4
6	LW10P	5/8* Lockwasher	4
7	60UB1008	90 deg. Swivel Elbow 60UB1008	4
8	849FS0808	1/2" MNPT x 1/2" MJIC 90 deg. Elbow	8
9	92070	Cartridge Valve 1/2" ORB (Normally Closed)	2
10	851FS00808	TEE 1/2" MORB x 1/2"MJICx1/2"MJIC	2
31	24SA08	1/2" Adapter 24SA08	2
12	90233	1/2"x60" 1/2"FJIC x 1/2" MNPT Hose	1 1
13	90232		2
14	90234	1/2"x8-1/2" 1/2"MNPT x 1/2" MNPT Hose	2
15	90231	1/2"x36" 1/2"FJIC x 1/2" MNPT Hose	2
16	B5C0840P	1/2"x108" 1/2"FJIC x 1/2"MNPT Hose	2
17	FW08P	1/2"x2-1/2" Bolt UNC Gr. 5	16
18	LNC08	1/2" Flat Washer	*
19	LW10P	1/2" Lock Nut UNC	16
20	60SB0808	1/2" Lock Washer	16
20		1/2* Adapter	2
21	25VK08	1/2* MNPT Swivel Tee	2
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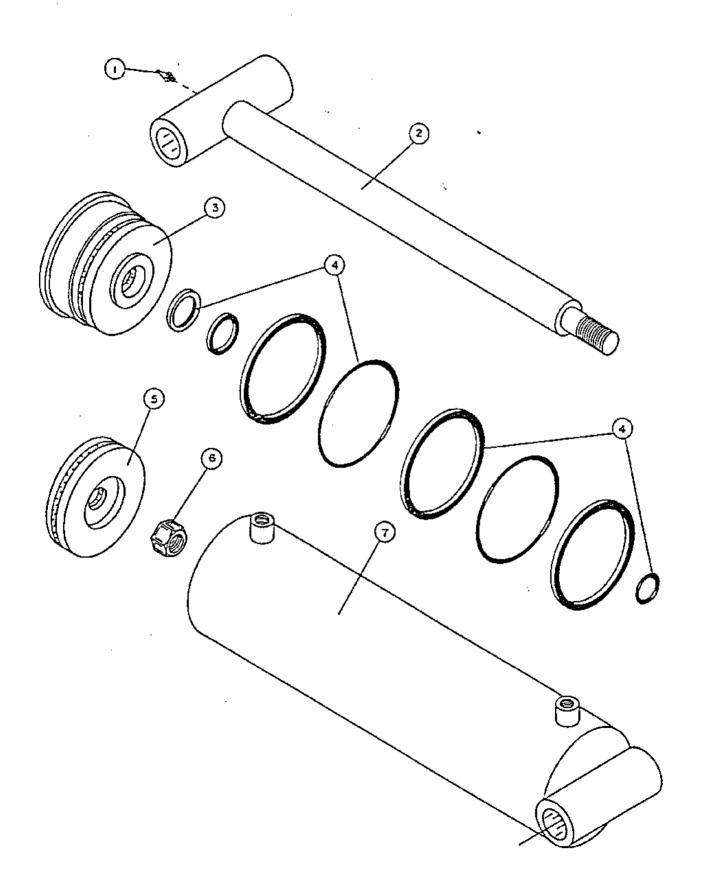
Hydraulic System



ITEM	PART NUMBER	DESCRIPTION	NO.
1	90120	Cylinder 3 1/2 x 13"	2
2	849FSO-0808	1/2" MORB x 1/2" MJIC 90 Adapter	1 1
3	849FS0808	1/2" MNPTx 1/2" MJIC 90 Adapter	6
4	90243	3/8"x44" 1/2"FJIC x 1/2"MJIC Hose	2
5	90245	3/8"x28" 1/2"FJICx1/2"MJIC Hose	2
6	90421	1/2" Left and Right Outer Hydraulic Lines	2
7	90425	1/2" Right Inner Hydraulic Lines	1
8	90103	Cylinder 3-1/2"x16"	1
9	90252	3/8"x48" 1/2"FJIC x 1/2"FJIC Hose	1
10	90224	3/8"x26" 1/2"FJIC x 1/2" NJ90T Hose	- -
11	40071	A-Frame Centre Member	1 1
12	B5C0528P	Bolt 5/16"x1-3/4" UNC Gr. 5	4
13	92089	FPS Solnoid Valve	2
14	90290	3/8"x9" 1/2"NJ90T x 08NJ90T Hose	
15	848FS00808	1/2" MORB x 1/2" MJIC Adapter	1 5
16	852FS08	1/2" Tube Cross	
18	90423	1/2" Inner Tractor Hydraulic Line	1
19	90422	1/2" Outer Tractor Hydraulic Line	
20	90223	3/8"x58" 1/2" MJIC x 1/2" MNPT Hose	1
21	90424		2
22	LNC05P	1/2" Left Inner Hydraulic Line 5/16" UNC Lock Nut	1
22	LINCOSP	DITO UNC LOCK NUT	4
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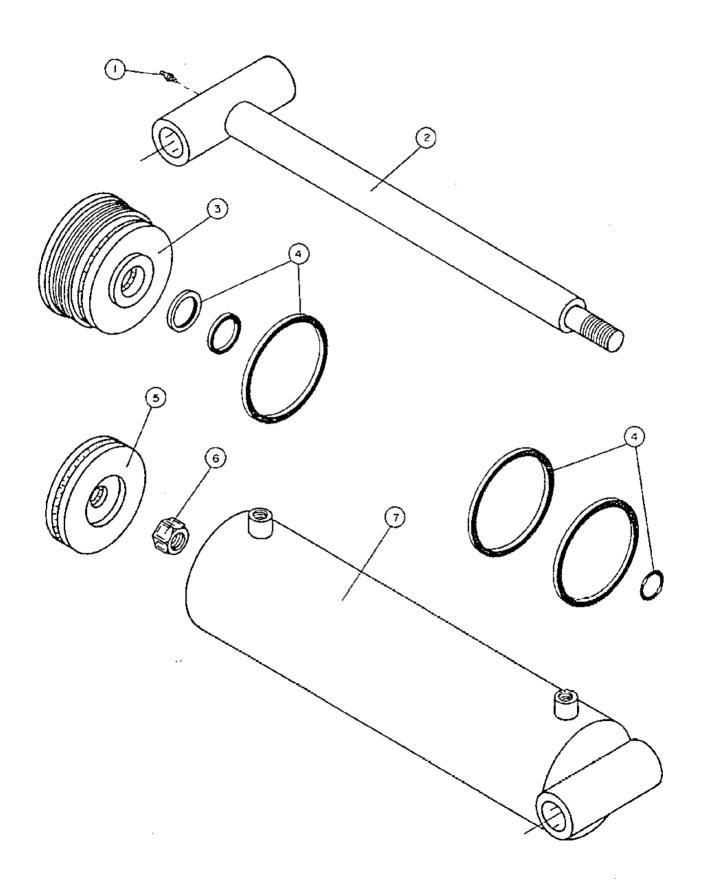


3 x 16 Cylinder (CTD)

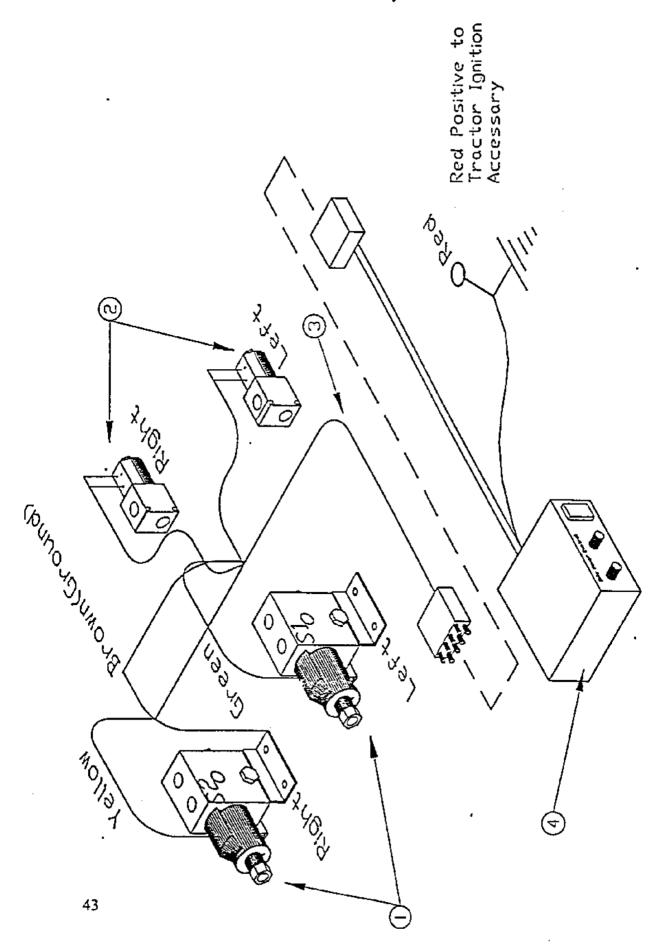


ITEM	PART NUMBER	DESCRIPTION	N°
1 2 3	91700 90646 90666	Grease Nipple 1/8" NPT Straight Cylinder Shaft c/w Tube End 3" Cylinder Screw on End Cap	1 1 1
4 5 6	90684 90705 90720	3" Seal Kit SKC30-150A 3" Cylinder Piston Piston Nut	1 1 1 1
7	90747 90107	3" x 16" Cylinder Screw on tube (Tube End) 3" x 16" Cylinder Complete (Tube Ends)	1 *
		*As Required	
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3 1/2 x 13 Cylinder (стр)



ITEM	PART NUMBER	DESCRIPTION	N°
1 2 3	91700 90645 90662	Grease Nipple 1/8" NPT Straight Cylinder Shaft c/w Tube End 3 1/2" Cylinder Screw on End Cap	1 1 1 1
4 5 6	90680 90700 90720	Seal Kit 3 1/2" SKC35-69A Piston 3 1/2" Cýlinder Piston Nut 3 1/2" x 13 Cylinder Screw on Tube	1 1 1
7	90746 90108	3 1/2" x 13 Cylinder Screw on Tube 3 1/2" x 13 Cylinder Complete (Tube Ends)	1
		*As Required	
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ITEM	PART NUMBER	DESCRIPTION	NO.
1	92089		1
2	92070	Cartridge Valve (Normally Closed) 1/2" ORB	1
3	92077	14 BM Implement Harness (Field)	1
4	92125	14 BM Control (Field) w/ Control Harness (1994)	1
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