# LAURIER

# H-2190 BALE MOVER

ASSEMBLY • OPERATOR • PARTS MANUAL



Box 307 VONDA, Saskatchewan SOK 4NO 306-258-2233

TO THE OWNER:

Congratulations on the purchase of your new LAURIER 7 BALE MOVER.

Constructed of the finest quality materials, your LAURIER 7 BALE MOVER is engineered and designed to do normal operations effectively and efficiently, and to provide you with years of dependable service.

Be sure to read the instructions in this manual for adjusting and operating your LAURIER 7 BALE MOVER. A few moments to acquaint yourself with the LAURIER 7 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, please consult the parts list in this manual, and contact your LAURIER DEALER.

HIGH LINE MFG. INC.

It is the policy of HIGH LINE MFG. INC. to improve it's products whenever it is possible and practical. We reserve the right to make changes or add improvements, at any time, without incurring any obligation to make such changes on machines previously sold.

### NOTES

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### SAFETY

### A CAUTION

INSTALL SAFETY PIN WHEN BALE WAGON IS IN TRANSPORT POSITION.

8015

OUTSIDE BED RAILING



HITCH JACK
MAXIMUM
5000 POUNDS

8018

RIGHT SIDE OF SUB FRAME

### A CAUTION

STAY CLEAR OF
WAGON BED WHILE
MACHINE IS OPERATING

8016

FRONT SIDE OF SUPPORT

### A CAUTION

FOR ADJUSTMENT
SEE
OPERATOR'S MANUAL.

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

8321



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# 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 accomodate 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:

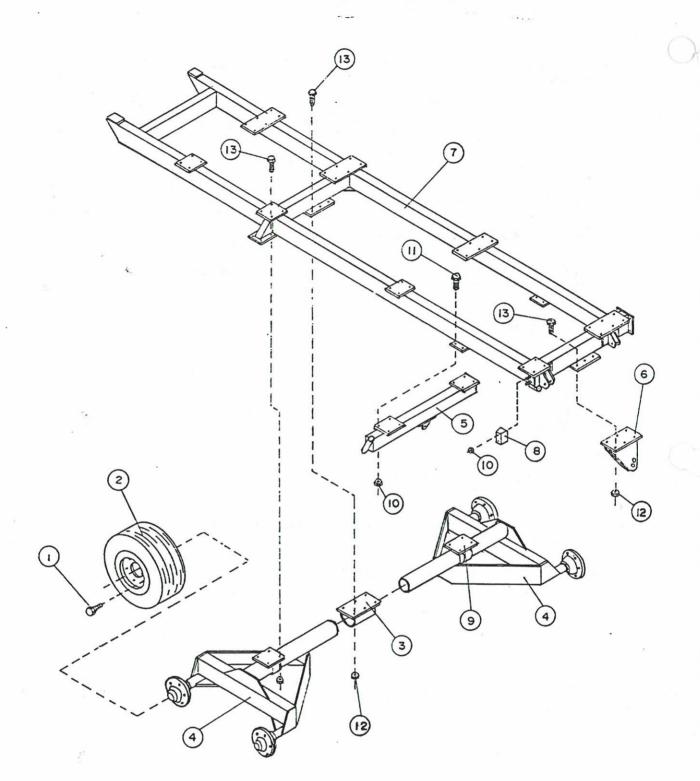
- 1. Fork lift or hoisting equipment with lifting capacity of 500 lbs.
- 2. Wrenches: 1/2,9/16,3/4,7/8,15/16,1,1 1/4".
- 3. Wire cutters
- 4. Pliers
- 5. Ball peen hammer
- 6. Pry Bar
- 7. Aligning bar

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





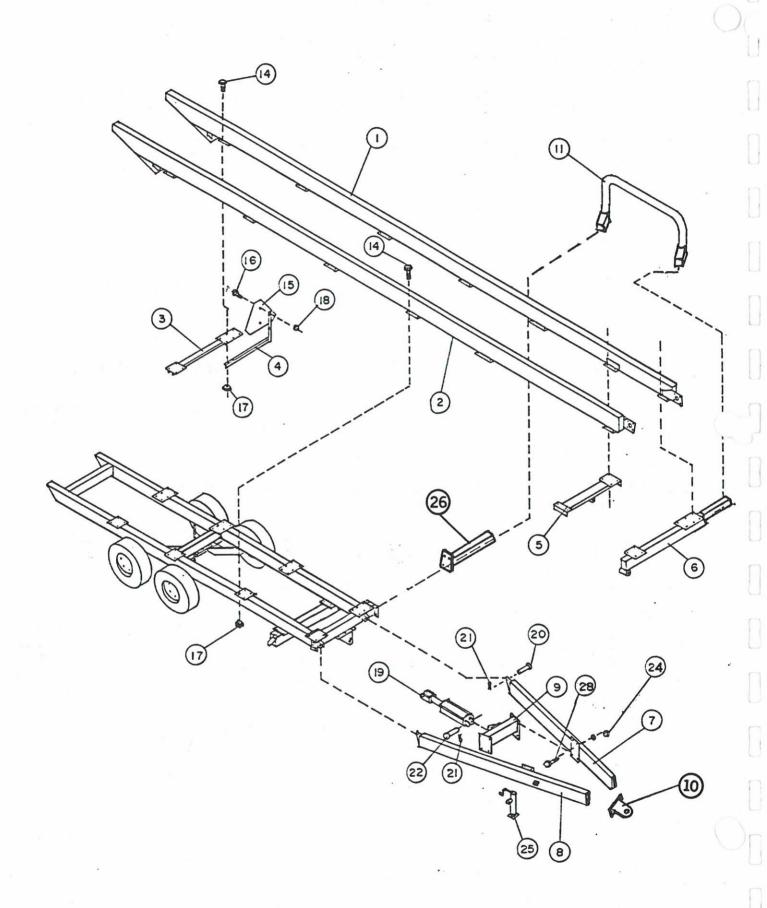
#### MAIN SUB FRAME

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.
- 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" x 1 3/4" bolt #13.
- 5. Bolt rubber bumper #8 to sub-frame #7 with 7/16" locknut #10.
- 6. Install stabelizer cross member #5 to sub-frame #7 with  $1/2 \times 1 \ 1/2$ " bolts #11



## 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.
- 2. Assemble 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

- 1. Attach front cross member #12 to right and left rails with  $1/2 \times 1 \ 1/2$ " bolts.
- 2. Attach tilt cylinder cross member #5 to the underside of left and right rails with  $1/2 \times 1 \ 1/2$ " bolts.
- 3. Bolt rear cross member #3 to back of the rails.

#### INSTALLATION OF BALE STOP

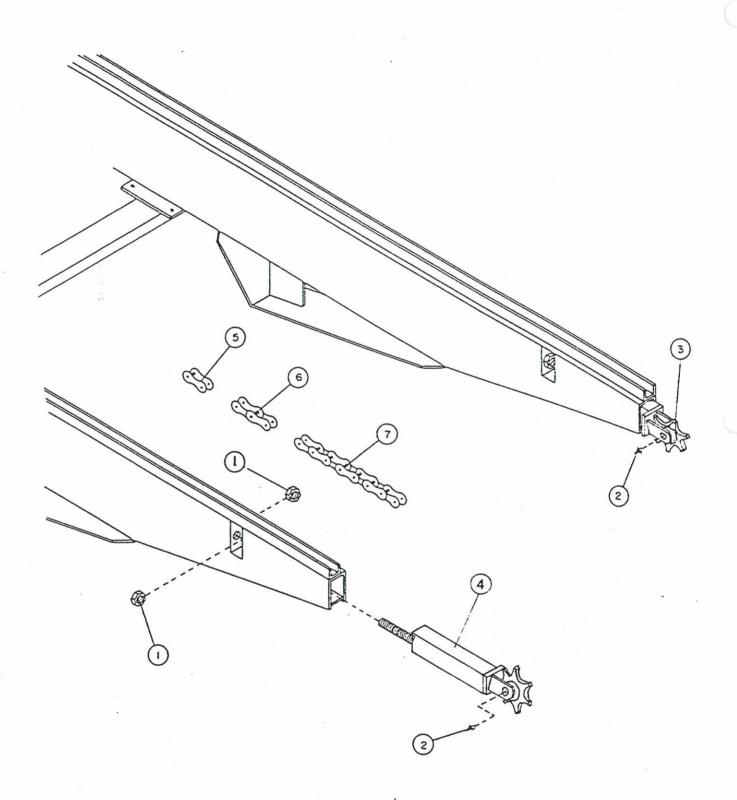
Bolt bale stop attachment plate #26 to the sub frame with 1/2 x 1 1/2" bolts and 1/2" locknuts, then slip #11 onto #26 and #6. 1/2 x 1 1/2" bolt

#### INSTALLATION OF SLOW MOVING SIGN

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



## Chain Tightener

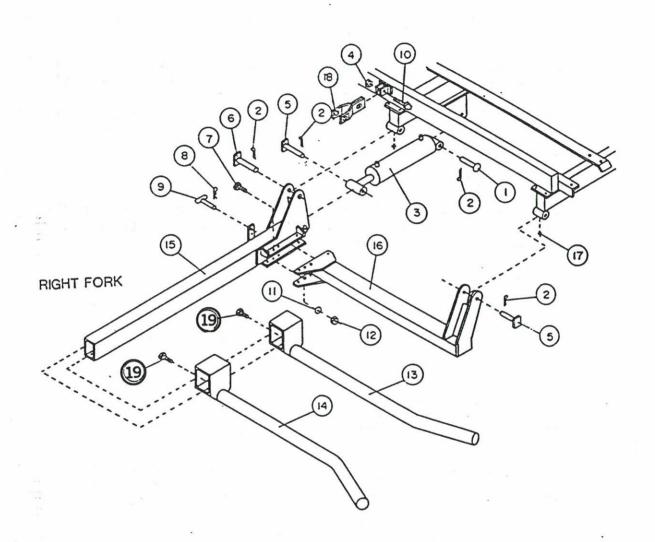




#### ROLLER CHAIN INSTALLATION

- 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



### NOTICE TO LAURIER BALE MOVER OWNERS

Pins #5 and #6 might be longer than they require to be. They can pull back past the stop allowing them to turn in the side plates, thus causing premature wear. If this situation exists on your bale mover, shims should be added between cotter pin and side plate to prevent pin from pulling back.



#### INSTALLATION OF BALE FORK TO SUB FRAME

- 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 the 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.

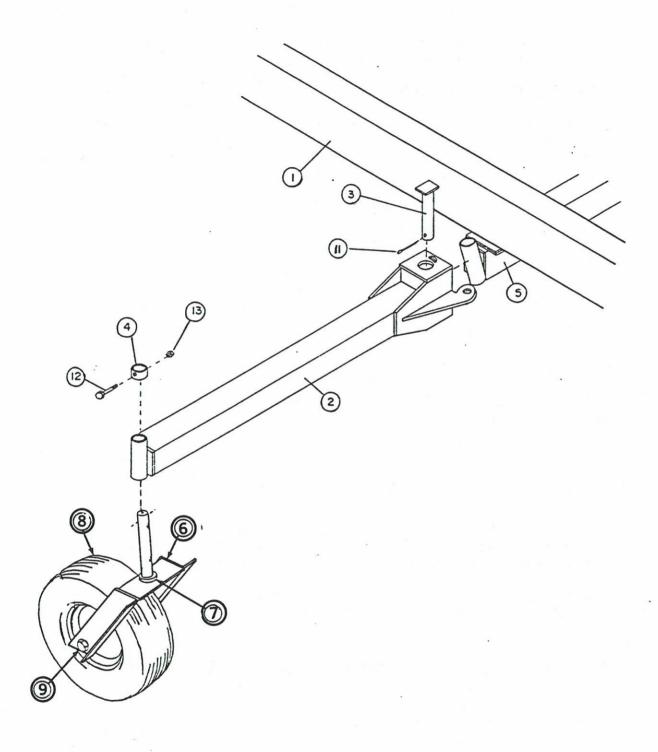
#### FORK CYLINDER INSTALLATION

- 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



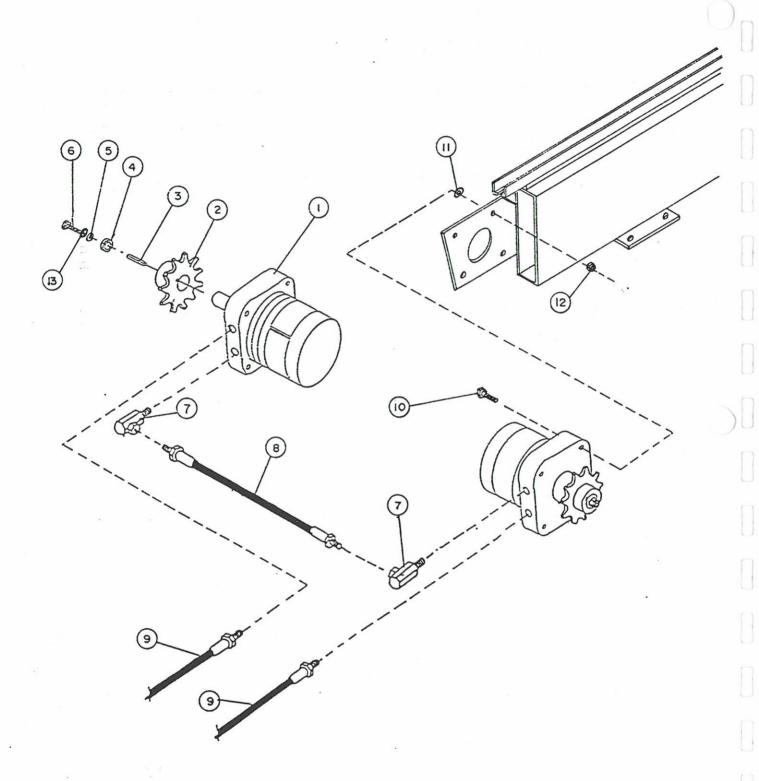


#### INSTALLATION OF SUPPORT ARM

- Drop pin #3 in hole at the rear of the support arm #2, and put in cotter pin #11.
- 2. 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.



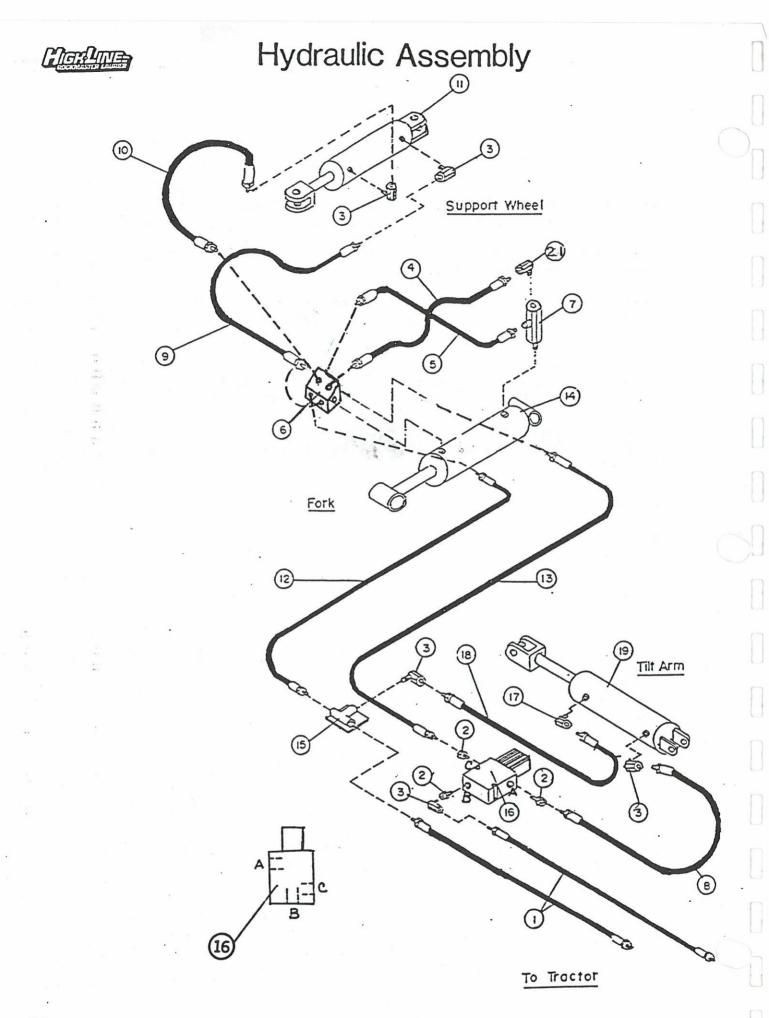
## Hydraulic Motors





#### HYDRAULIC MOTORS

- 1. Secure hydraulic motors #1 to rails #45051 and #45052, as shown on page 3, complete with  $1/2" \times 2 \ 1/2"$  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

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 #19. Secure swivel elbow #3 and #17 to the cylinder. Attach #8 hose to the swivel elbow #3 and it to Port A on the cartridge valve. Attach #8 hose to the restrictor swivel elbow #17 and at the opposite end a standard swivel elbow #3. It goes into the tee with a welded plate #15.
- 2. The hose to tractor #1 is attached to a swivel elbow #3 and to adaptor fitting #2 to Port B on the cartridge valve #16. Second hose is attached to the tee with a welded plate #15.

  Hose #13 is attached to port C of the cartridge valve #16 and
- 3. the opposite end is attached to the side front port on block #6 Hose #12 is attached to the side back port of block #6 and the other end is attached to the lower tee #15.
- 4. Install fork cylinder #14. Attach pilot check valve  $\#\bar{\chi}$  to cylinder then attach block #6 to cylinder using end port of block #6.
- 5. Secure hose #4 to the top of the pilot check valve #7 with a swivel elbow #21 and the top front port port of block #6. Secure hose #5 to the bottom of the check valve #7 and the opposite end to the back side port of block #6.
- Install support arm cylinder #11 in cylinder ports. Secure swivel elbow #3.
- 7. Hose #10 attaches to the cylinder #11 and the opposite end in the top port of block #6. Hose #9 attached to cylinder #11. Opposite end attaches to the front side port of block #6.

#### PRE OPERATION ASSEMBLY

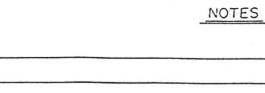
CAUTION: To fill hydraulic hoses and cylinders with oil, proceed as follows:

- 1. Install fittings to hoses ends, connect hose to tractor.
- 2. With fork still in down position, carefully operate controls allowing oil to flow to fork cylinder.
- 3. Before disconnecting hydraulic hoses, raise bale fork to the transport position. Install safety pins.

#### IMPORTANT NOTE!!!

Double check all hose attachments, hoses #12, #10, #5 are attached to the 3% ports on back half of block #6. Hoses #13, #9, #4 along with the cylinder are attached to the front half of the block #6







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### **OPERATION**

#### OPERATION

- A. Operate Bale Mover only from tractor.
- B. The model H-2190 LAURIER 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 2190 LAURIER 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 1 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.

- 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.

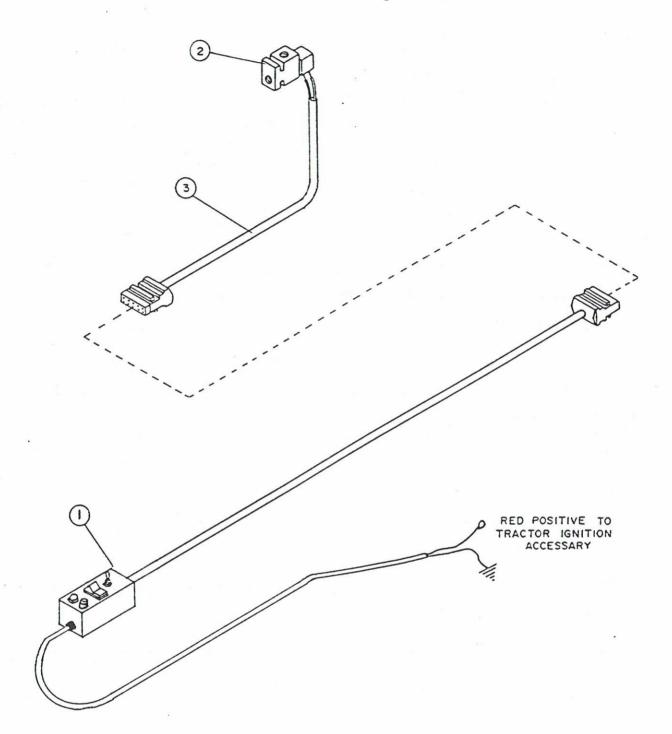
### TROUBLE SHOOTING



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 accordingl
<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 for
3. Chains twist or lean	*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 reservo
not raise	*Poor electrical connection	*Check wiring
	*Needs seal kit	*Replace kit
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# Electrical System





### PARTS CATALOGUE

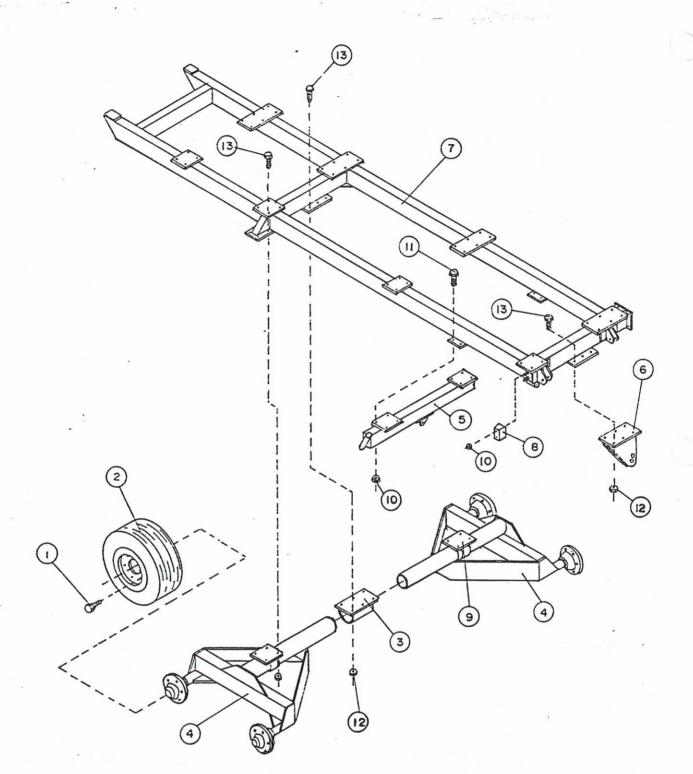
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611 HUB & SPINDLE	35
211 HUB & SPINDLE	37
3 1/2" x 13" CYLINDER	39
3" x 8" CYLINDER	1
3" x 10" CYLINDER	
ELECTRICAL SYSTEM	5

### 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

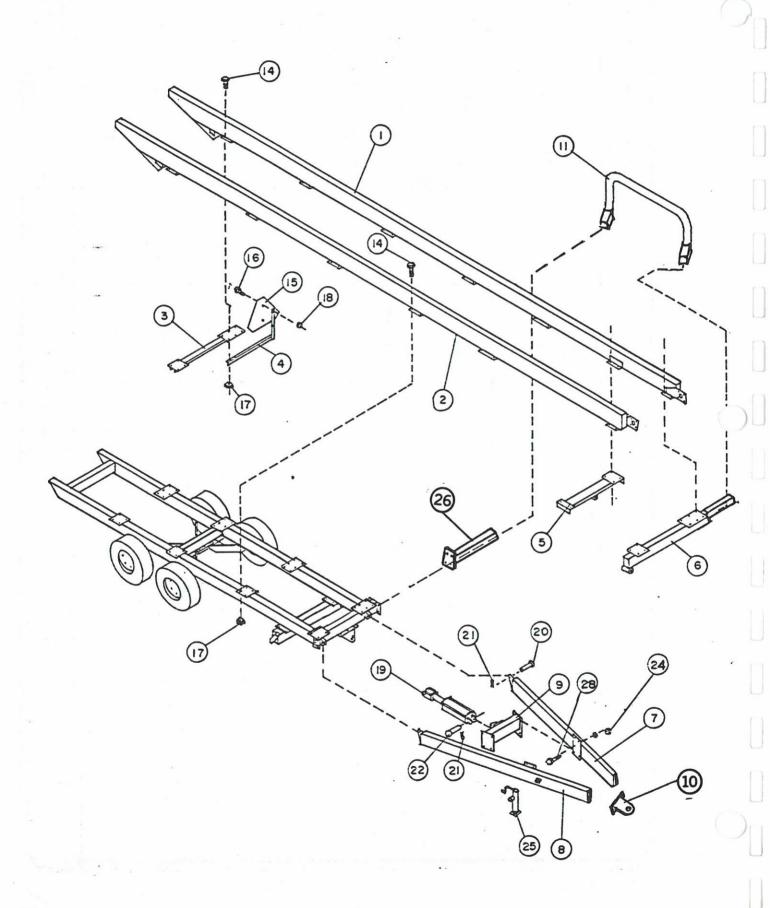




ITEM	PART NUMBER	DESCRIPTION	No
1	91060	Wheel Bolt 1/2"	24
1 2 3	91008 45006	11-151t 8ply Farm Hiway service tire Centre Pocket	4
4	45004	Walking Beam	2
5 6	45002	Stabelizer Mount	1
7	45033 45047	Cylinder Bracket Main Sub Frame	1
8 9	92061	Rubber Bumper	1
9	45007	Side Pockets	2
11	LNCO8P B5C0824P	Locknut I/2" 1/2 X 1 1/2" bolt	10 8
12	LN5C10P	Locknut 5/8"	20
13	B5C1024P	Bolt 5/8" x 1 1/2"	20
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# A-Frame Hitch and Rail Assembly

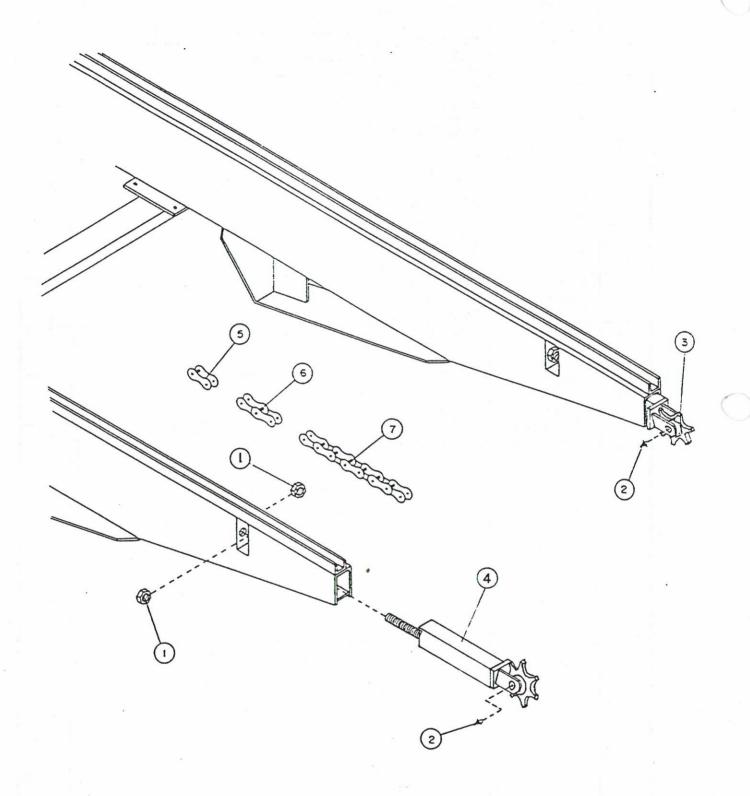




ITEM	PART NUMBER	DESCRIPTION	NΘ
1	45051	Left Outside Rail	1
2	45052	Right Outside Rail	î
3	45008	Rear Cross Member	1
4	45022	Slow Moving Sign	1
5	45013	Tilt Cylinder Cross Member	1
6	45021-A	Front Cross Member	1
7 8	45011 45010	Left A-Frame Tube	1
9	45010	Right A-Frame Tube A-Frame Cross Member	1
10	45058	HITCH TONGUE	1
11	45016-A	Bale Stop	1
	45010-11		1
13	W10P	Lockwasher 5/8"	6
14	B5C0824P	BOLT 1/2 X 1 1/2"	88
15	92040	Slow Moving Sign	1
16	B5C0412P	Bolt 1/4" x 3/4"	2
17	LNC08P	Locknut 1/2"	88
18 19	LN5C04P 90712	Locknut 1/4"	2
20	40003	Cylinder 3" x 10" A-Frame Pin 1 1/4" x 3"	1
21	CPO440	Cotter Pin 1/4" x 2 1/2"	2
22	91603	Pin Cylinder	2
		III OJIINGOI	1
24	LN5C08P	Locknut 1/2"	9
25	92033	Hitch Jack	1
26	45059	Bale Stop Mounting Arm	1
27	LNC16P	1" Locknut	1
28	B5C0824P	Bolt 1/2" x 1 1/2"	2
29	B5C16120P	1 x 7 1/2" UNC BOLT	1
10	45060		
10	43000	Double Hitch Tongue (optional)	22
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### Chain Tightener

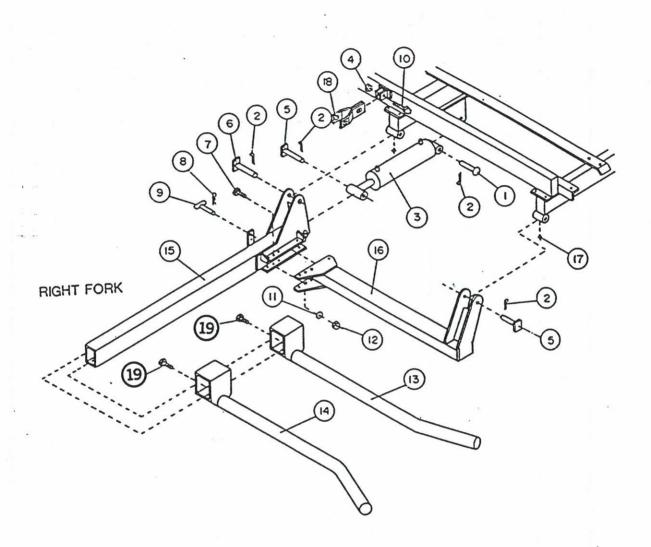




ITEM	PART NUMBER	DESCRIPTION	Nº
1 2 3 4 5 6	N5C10P 91700 40073 40074 91511	Nut 5/8" Grease Nipple 1/8" NPT Straight Right Chain Tightener Left Chain Tightener 2062 Half Link	4 4 . 2 . 2 *
7	91510 91508	2062 Connecting Link 2062 Chain c/w Connecting Link	*
		* As Required	
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### Fork Assembly

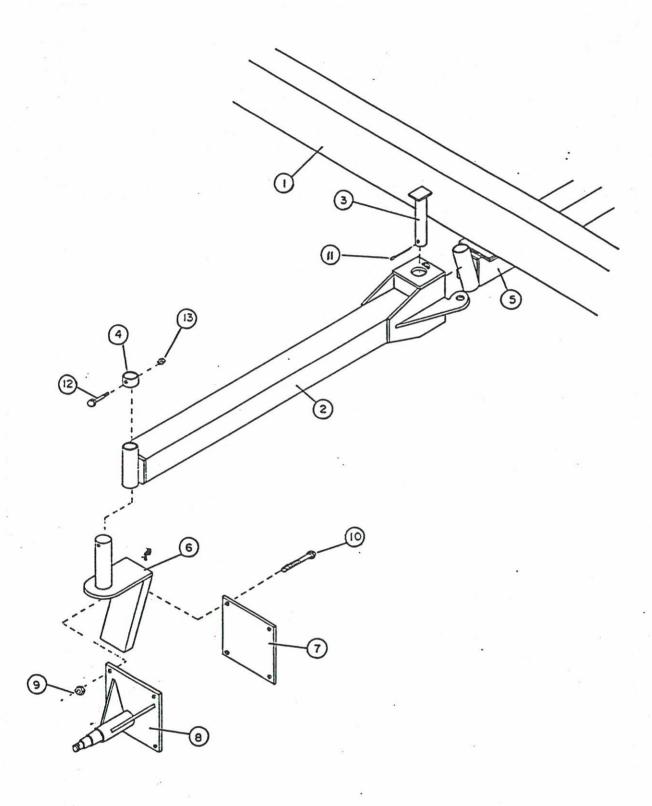




ITEM	PART NUMBER	DESCRIPTION	N°
1 2	40009 CP0440	Cylinder Bracket Pin Cotter Pin 1/4" x 2 1/2"	1 4 1
3 4 5	90711 LN5C12P 40008	Cylinder 3 1/2" x 13" Locknut 3/4" Front Pivot Arm Pin	1 2
6 7	40010 B5C1024P.,	Pivot Slide Arm Pin	1 1
8 9	HP40 40019	5/8 x 1 1/2" bolt Hair Pin Clip 2 1/2" Pivot Slide Arm Lock Pin	10
10 11	B5C1240P W10P	Bolt 3/4" x 2 1/2" Lock Washer 5/8"	1 8 8
12 13 14	N5C10P 40022 40023	Nut 5/8" Right Fork Tooth Left Fork Tooth	1 1
15 16	40018 40012	Right Pivot Right Pivot Arm	1
17	91700 45023	Grease Nipple 1/8" NPT Straight Fork Locking Extention	2
19	B5C1632P	1 x 2" bolt	
.3			



### Support Arm Assembly 1990

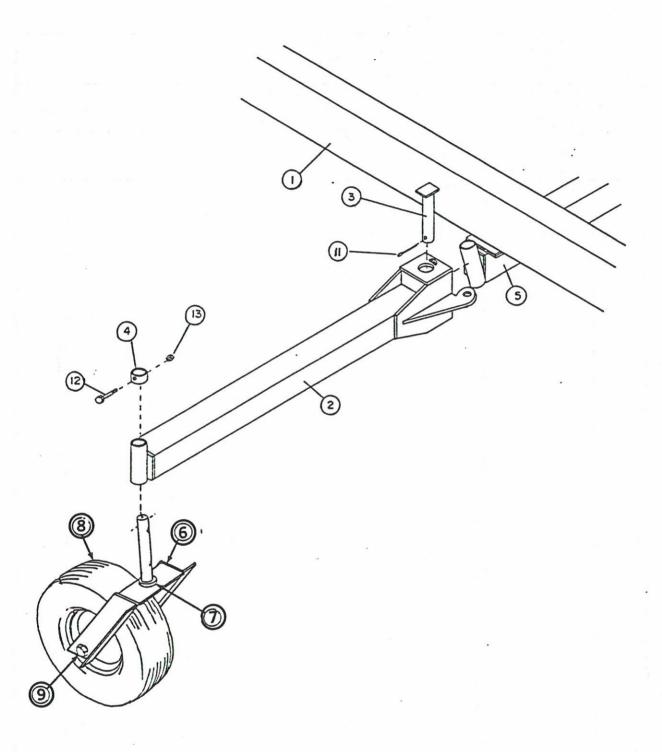




TIEM   PART NUMBER   DESCRIPTION   Nº				
2       45003       Support Arm       1         3       45025       Support Arm Pin       1         4       45026       Support Arm Collar       1         5       45002       Support Arm Bracket       1         6       45005       Support Arm Wheel Bracket       1         7       45035       Back Plate       1         8       45028       Support Arm Wheel       1         9       LN5C07P       Locknut 7/16"       4         10       B5C0748P       Bolt 7/16" x 3 1/2"       4         11       CP0440       Cotter Pin 1/4" x 2 1/2"       1         12       B5C0540P       Bolt 5/16" x 2 1/2"       1	ITEM	PART NUMBER	DESCRIPTION	Nº
2       45003       Support Arm       1         3       45025       Support Arm Pin       1         4       45026       Support Arm Collar       1         5       45002       Support Arm Bracket       1         6       45005       Support Arm Wheel Bracket       1         7       45035       Back Plate       1         8       45028       Support Arm Wheel       1         9       LN5C07P       Locknut 7/16"       4         10       B5C0748P       Bolt 7/16" x 3 1/2"       4         11       CP0440       Cotter Pin 1/4" x 2 1/2"       1         12       B5C0540P       Bolt 5/16" x 2 1/2"       1	1	45047	Main Sub Frame	*
3       45025       Support Arm Pin       1         4       45026       Support Arm Collar       1         5       45002       Support Arm Bracket       1         6       45005       Support Arm Wheel Bracket       1         7       45035       Back Plate       1         8       45028       Support Arm Wheel       1         9       LN5C07P       Locknut 7/16"       4         10       B5C0748P       Bolt 7/16" x 3 1/2"       4         11       CP0440       Cotter Pin 1/4" x 2 1/2"       1         12       B5C0540P       Bolt 5/16" x 2 1/2"       1	2		A STATE OF THE STA	1
7 45035 Back Plate 8 45028 Support Arm Wheel 9 LN5C07P Locknut 7/16" 4 10 B5C0748P Bolt 7/16" x 3 1/2" 4 11 CP0440 Cotter Pin 1/4" x 2 1/2" 1 12 B5C0540P Bolt 5/16" x 2 1/2" 1	3	45025		ī
7 45035 Back Plate 8 45028 Support Arm Wheel 9 LN5C07P Locknut 7/16" 4 10 B5C0748P Bolt 7/16" x 3 1/2" 4 11 CP0440 Cotter Pin 1/4" x 2 1/2" 1 12 B5C0540P Bolt 5/16" x 2 1/2" 1	4			
7 45035 Back Plate 8 45028 Support Arm Wheel 9 LN5C07P Locknut 7/16" 4 10 B5C0748P Bolt 7/16" x 3 1/2" 4 11 CP0440 Cotter Pin 1/4" x 2 1/2" 1 12 B5C0540P Bolt 5/16" x 2 1/2" 1	5			1
8       45028       Support Arm Wheel       1         9       LN5C07P       Locknut 7/16"       4         10       B5C0748P       Bolt 7/16" x 3 1/2"       4         11       CP0440       Cotter Pin 1/4" x 2 1/2"       1         12       B5C0540P       Bolt 5/16" x 2 1/2"       1	6			
9       LN5C07P       Locknut 7/16"       4         10       B5C0748P       Bolt 7/16" x 3 1/2"       4         11       CPO440       Cotter Pin 1/4" x 2 1/2"       1         12       B5C0540P       Bolt 5/16" x 2 1/2"       1	8			1
10 B5C0748P Bolt 7/16" x 3 1/2" 4 11 CPO440 Cotter Pin 1/4" x 2 1/2" 1 12 B5C0540P Bolt 5/16" x 2 1/2" 1	9			4
11   CPO440   Cotter Pin 1/4" x 2 1/2"   1 12   B5C0540P   Bolt 5/16" x 2 1/2"   1	10	B5C0748P	Bolt 7/16" x 3 1/2"	
12 B5C0540P Bolt 5/16" x 2 1/2" 1  13 LN5C05P Locknut 5/16" 3			Cotter Pin 1/4" x 2 1/2"	1
Locknut 5/16			Bolt 5/16" x 2 1/2"	1
	13	LN5C05P	Locknut 5/16"	3
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#### Support Arm Assembly

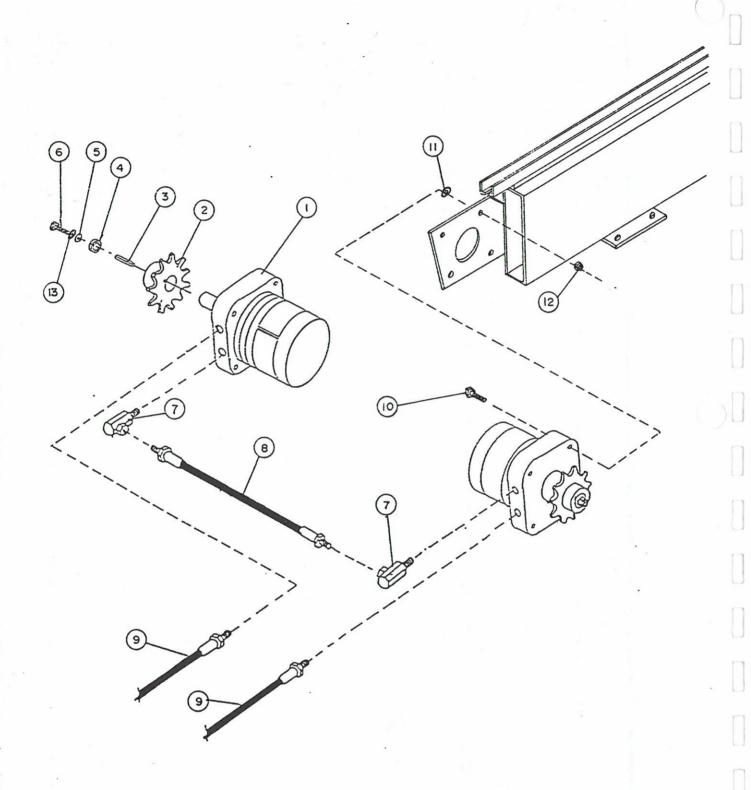




ITEM	PART NUMBER	DESCRIPTION	
			No
1 2 3	45047 45003	Main Sub Frame Support Arm	*
	45025 45026	Support Arm Pin	1
5	45002	Support Arm Collar Support Arm Bracket	1
7	500007 45061	Castor Fork Spacer	1
8	301210 B5C16144P	Castor Fork Spacer Castor Tire And Rim	1
		1 X 9" Bolt '	4
11 12	CPO440 B5C0540P	Cotter Pin 1/4" x 2 1/2" Bolt 5/16" x 2 1/2"	1
13	LN5C05P	Locknut 5/16"	3
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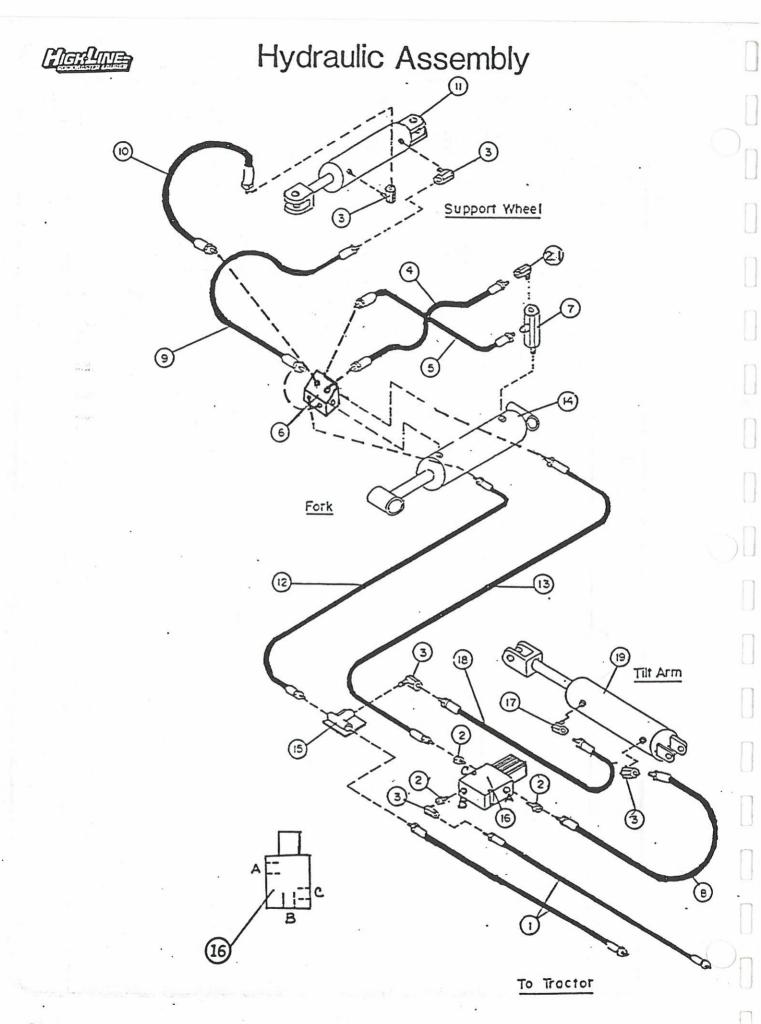


#### Hydraulic Motors





ITEM	PART NUMBER	DESCRIPTION	No
1 2 3	92066 92063 40078	Hydraulic Motor C-2062 - 10 Tooth Sprocket 5/16" Keystock	2 2 2 2 2 2
5 6	40077 W10P 92067	End Washer 5/8" Lockwasher 5/8" x 1" Bolt N.F. 90° Swivel Elbow 60MB08MB	2 2 2
7 8 9	90507 60MB08MB 90310 B5C0840P	1/2" Hose 1 Wire x 30" 08MB08MB 1/2" Hose 1 Wire x 96" 10MB08MB Bolt 1/2" x 2 1/2"	1 2 8
11 12 13	FW08P LN5C08P	Flat Washer 1/2" Locknut 1/2" Flatwasher 5/8"	8 8
13	WIOP	rlatwasner 5/8"	4

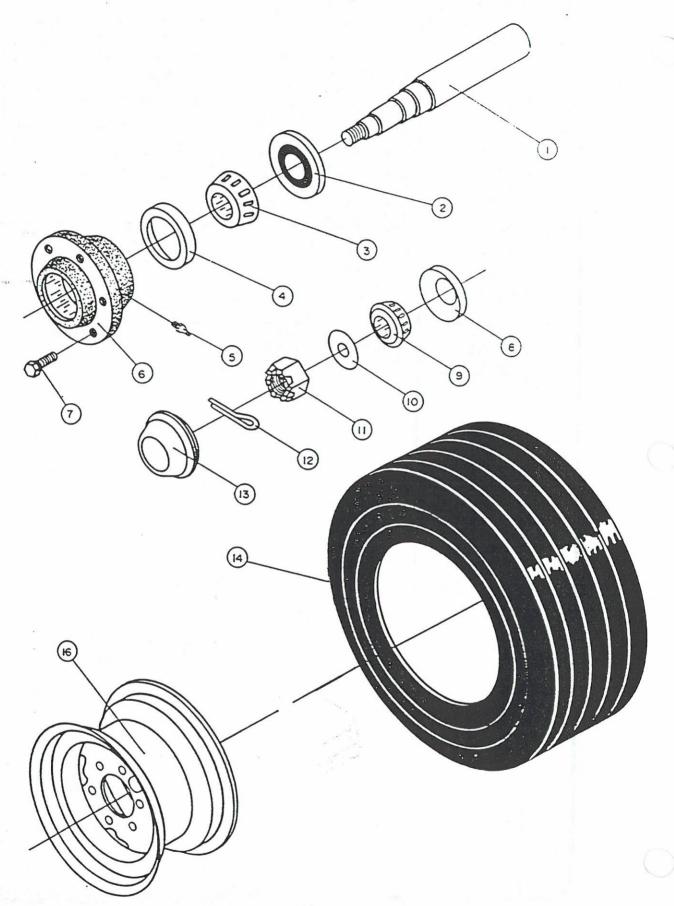




ITEM	PART NUMBER	DESCRIPTION	NΘ
1 2 3	90301 60SB0606	3/8" Hose 1 wire 120" 06MB08MB ORB to NPSN Female Swivel 60SB0606 90° Swivel Elbow 3/8" 60UA0606	2 3 5
3 4 5 6	60UA0606 90303 90302 45062	3/8" Hose 1 wire 15½" 04MB06MB 3/8" Hose 1 wire 15" 06MB06MC Double Tee Block	1 1 1
7 8 9	90691 90304 90305	Pilot Check Valve PC50 3/8" Hose 1 wire 17½" 06MB06MB 3/8" Hose 1 wire 30½" 06MB06MB	1 1 1
10 11 12	90306 90710 90307	$3/8$ " Hose 1 wire $22\frac{1}{2}$ " $06MB06MB$ Cylinder 3" x 8" - $1\frac{1}{4}$ " Shaft $3/8$ " Top Port $3/8$ " Hose 1 wire 51" $06MB06MC$	1
13 14 15	90308 90711 45027	3/8" Hose 1 wire 50" 06MB06MB Cylinder 3½" x 13" - 1½" Shaft ½" Top Port Tee Street F-F-F Welded 3" Square Plate	1
16 17 18	92082 61UA0606 90309	Cartridge Valve 90° Swivel Elbow Restrictor 3/8" 61UA0606 3/8" Hose 1 wire 28" 06MB06MB	1 1 1
19 20 21	90712 92025 60UA0404	Cylinder 3"x10" - 1½" Shaft 3/8" Side Port Hydraulic Motor RE865 90° Swivel Elbow 1/4" 60UA0404	1 1



#### 611 Hub Sprindle



91090 new 610 91170 LM29749 91150 LM29710 91130 91110

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Fed ID# CANADA STONY PLAIN, AB TYZ 1V7 34 BONLDER BLVD. SOLD TO: PARKLAND FARM EQUIPMENT

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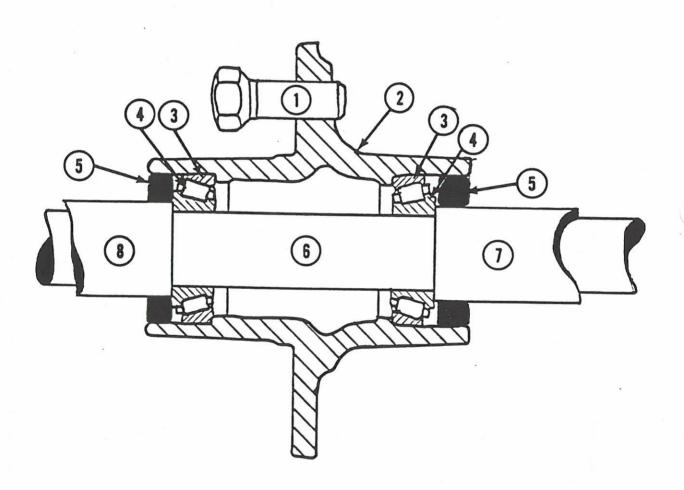
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ITEM	PART NUMBER	DESCRIPTION	N°
1 2 3	91250 91090 91170	611 Spindle 2" x 10" 611 Seal 611 Inner Cone LM29749	1 1 1
4 5 6	91150 91700 91070	611 Inner Race LM29710 Grease Nipple 1/8" NPT Straight 611 Hub	1 1 1
7 8 9	91060 91130 91110	Wheel Bolt 1/2" 611 Outer Race LM67010 611 Outer Cone LM67048	6 1 1
10 11 12	91190 91210 CPo324	Washer Castelated Nut Cotter Pin 3/16" x 1 1/2"	1 1 1 1
13	91230 91008	611 Dust Cap 11L-15LT 8PLY Farm Hiway Serv	1 1 1 1
16	91050	15" x 8" x 6" Wheel Rim	1

## **4-BOLT** HD211

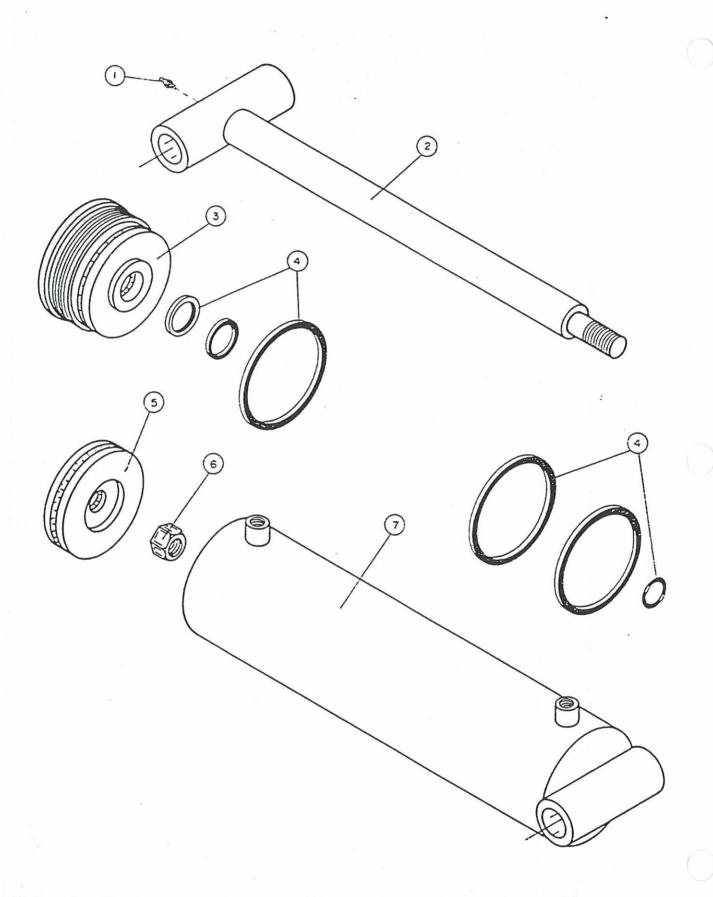




ITEM	PART NUMBER	DESCRIPTION	No
1 2 3	301204 301203 301205 301206	1/2" WHEEL BOLT HD211 WHEEL HUB L44610 RACE L44643 BEARING	1 1 1
5 6	301207 B5C16144P	SE10 SEAL 1 X 9 UNC GR5 PLTD	1 1
7 8	LNC16 301208 301209	1" UNC LOCK NUT 1" I.D. X 2" L SPACER 1" I.D. X 1 1/2" SPACER	1
			1 1
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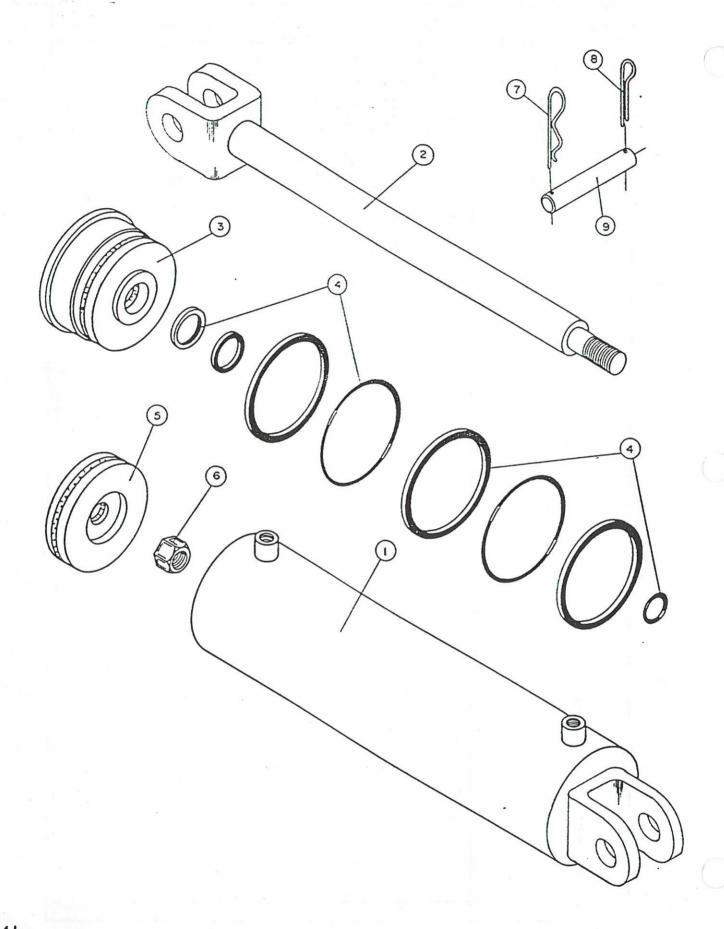
#### 3 1/2" X 13" Cylinder





ITEM	PART NUMBER	DESCRIPTION	Nε
1 2 3 4 5 6	91700 90645 90662 90680 90700 90720 90746	Grease Nipple 1/8" NPT Straight Cylinder Shaft c/w Tube End 3 1/2" Cylinder Screw on End Cap Seal Kit 3 1/2" Piston 3 1/2" Cylinder Piston Nut 3 1/2" x 13 Cylinder Screw on Tube	1 1 1 1 1 1 1 1 1 1 1 1
	90108	3 1/2" x 13 Cylinder Complete (Tube Ends)  *As Required	<b>н</b>

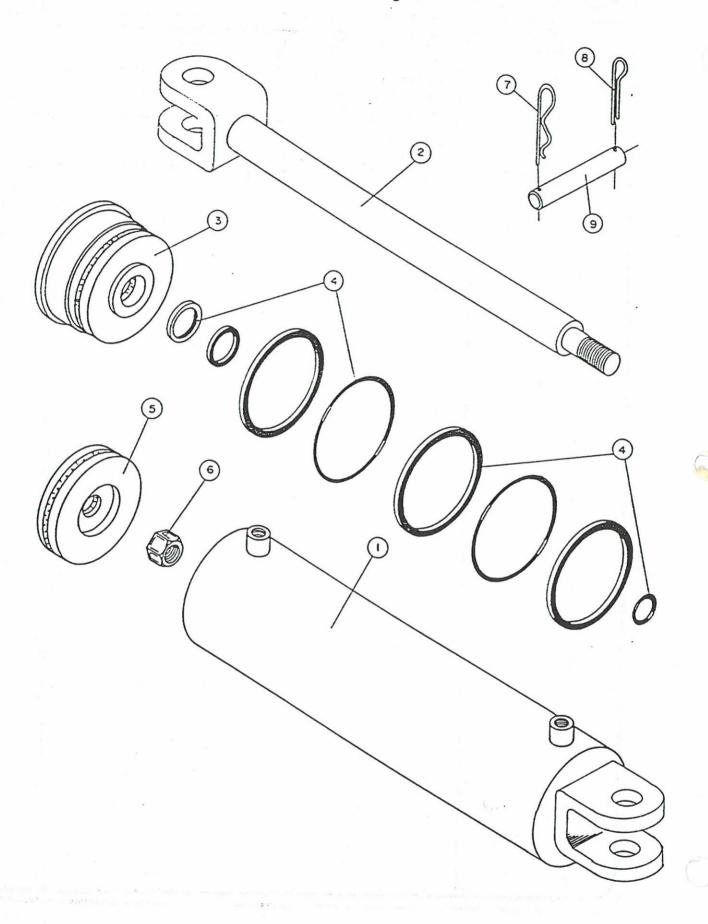
#### 3" x 8" Cylinder





	ITEM	PART NUMBER	DESCRIPTION	NΘ
	1 2	90748 90647	3" x 8" Cylinder Complete (Tube End) 3" x 8" Cylinder Shaft c/w end	1 1 1
	3 4 5	90666 90684 90705	3" Cylinder Screw on End Cap Seal Kit 3" Piston 3" Cylinder	1 1 1
	6 7 8	90720 HP52 CPO324	Piston Nut Hair Pin Clip 3 1/4" Cotter Pin 3/16" x 1 1/2"	2 2 2
	9	91605	Pin Cylinder 1" x 3 1/4"  3" x 8" ylinder Complete (Tube End)	*
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4562	1			
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### 3" x 10" Cylinder

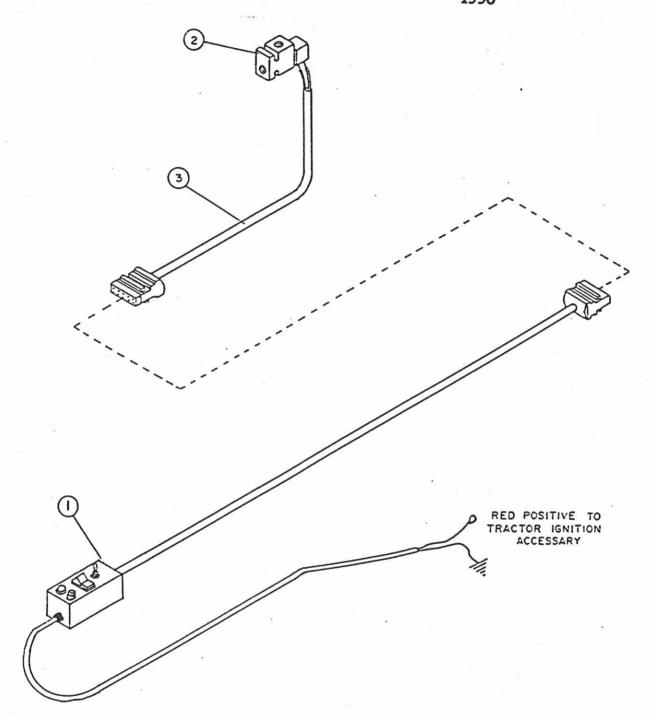




ITEM	PART NUMBER	DESCRIPTION	No
1 2 3	90749 90648 90666	3" x 10" Cylinder Screw Tube 3" x 10" Cylinder Shaft c/w Tube End 3" Cylinder Screw on end Cap	1 1 1
4 5 6	90684 90705 90720	Seal Kit 3" Piston 3" Cylinder Piston Nut	1 1
7 8 9	HP52 CPO324 91605	Hair Pin clip 3 1/4" Cotter Pin 3/16" x 1 1/2" Pin Cylinder 1" x 3 1/4"	1 1 2 2 2 2
	90711	3" x 10" Cylinder Complete (Tube End)	*
	M		
	100		



## Electrical System

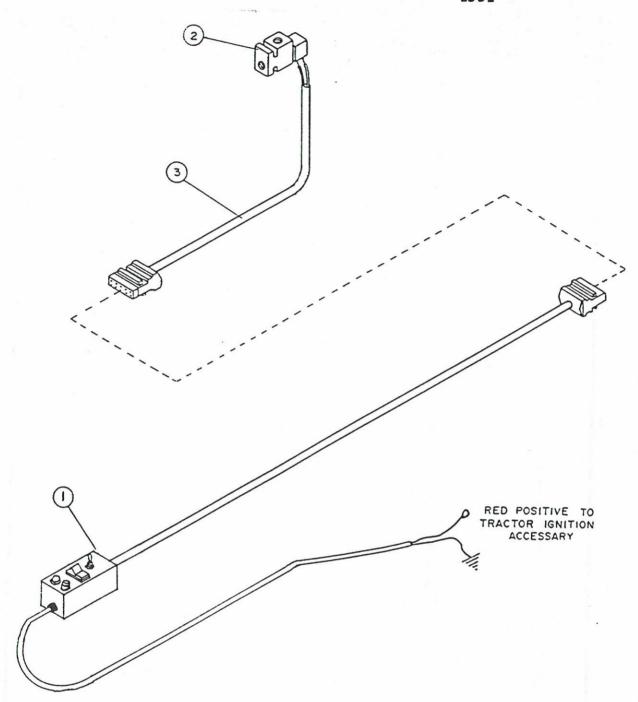




ITEM	PART NUMBER	DESCRIPTION	N <sub>0</sub>
1 2 3	92064 90692 92068	Control 8905 c/w Cords Cartridge Valve 14C32S-AR-T6(Normally Closed Electrical Cord	1 1 1
			- 4
	1 2 2 2		
	· N		



# Electrical System



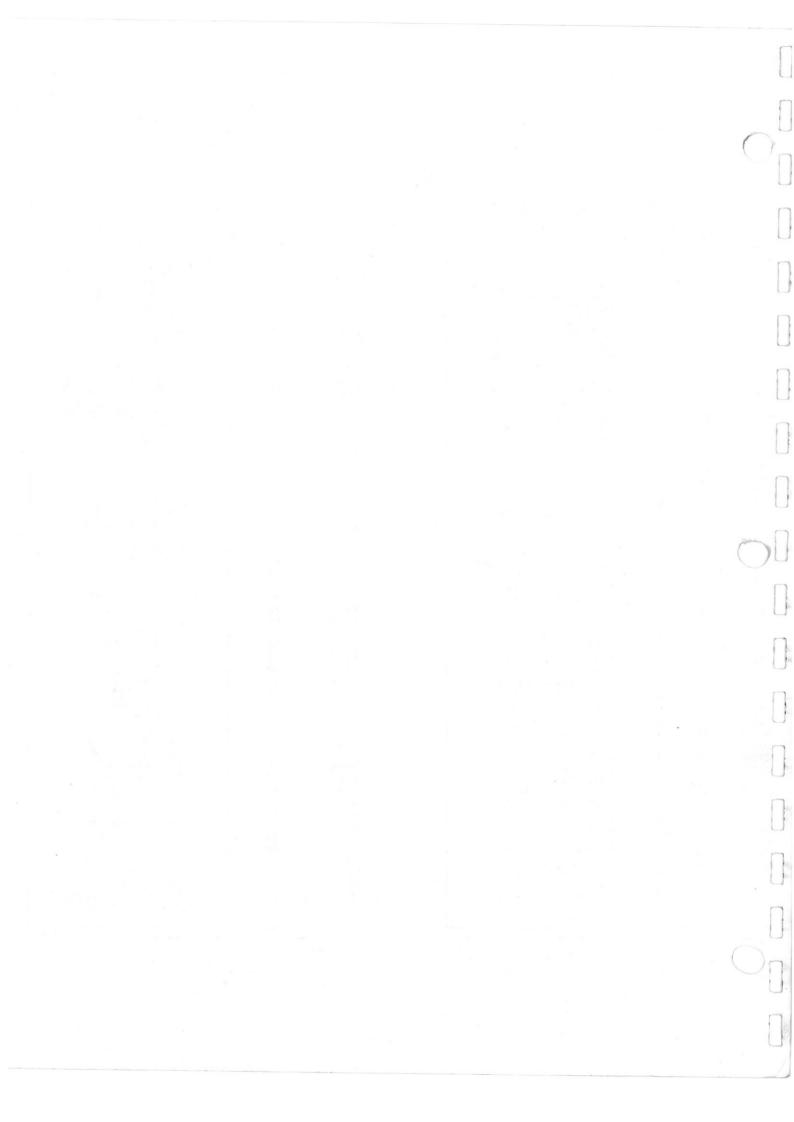


ITEM	PART NUMBER	. ↑			
1 2 3	920 <u>7</u> 6 92082 92078	7BM Control(FIELD) W/Control Harness only Cartridge Valve (Delta DFS3A0005125) Closed 7BM Implement Harness (Field)	1 1 1		
		-			
*					

#### PARTS INDEX

PART #	PAGE	ITEM	DESCRIPTION
10003	24	20	A-FRAME PIN 1 1/4" X 3"
40008	28	5	FRONT PIVOT ARM PIN
40009	28	1	CYLINDER BRACKET PIN
10010	28	6	PIVOT SLIDE ARM PIN
10012	28	16	RIGHT PIVOT ARM
40018	28	15	RIGHT PIVOT
40019	28	9	PIVOT SLIDE ARM LOCK PIN
10022	28	13	RIGHT FORK TOOTH
10023	28	14	LEFT FORK TOOTH
40074	26	4	LEFT CHAIN TIGHTENER
40073	26	3	RIGHT CHAIN TIGHTENER
10077	32	4	END WASHER
10078	32	3	5/16" KEYSTOCK
15002	22	5	STABILIZER BRACKET
45002	30	5	STABILIZER BRACKET
45003	30	2	SUPPORT ARM
15004	22	4	WALKING BEAM
15006	22	3	CENTER POCKET
45007	22	9	SIDE POCKET
45008	24	3	REAR CROSS MEMBER
15010	24	8	RIGHT A-FRAME TUBE
15011	24	7	LEFT A-FRAME TUBE
15012	24	9	A-FRAME CROSS MEMBER
45013	24	5	TILT CYLINDER MEMBER
45016	24	11	BALE STOP
15021	24	6	FRONT CROSS MEMBER
35	24	4	SLOW MOVING MEMBER
450	28	18	FORK LOCKING EXTENSION
45025	30	3	SUPPORT ARM PIN
15026	30	4	SUPPORT ARM COLLAR
15027	34	15	WELDED TEE
15033	22	6	CYLINDER BRACKET MAIN SUB FRAME
45047	22	7	MAIN SUB FRAME
45047	22	1	LEFT OUTSIDE RAIL
15051	24 24	1 2	RIGHT OUTSIDE RAIL
5052	24	10	HITCH TONGUE
45058 45059	24	26	BALE STOP MOUNTING ARM
15060	24	10	DOUBLE HITCH TONGUE
5061	30	7	CASTOR FORK SPACER
45062	34	6	DOUBLE TEE BLOCK
301204	38	1	1/2" WHEEL BOLT
301203	38	2	HD211 WHEEL HUB
01205	38	3	L44610
01206	38	4	L44643 BEARING
301207	38	5	SE10 SEAL
301208	38	7	1"ID X 2"L SPACER
01209	38	8	1"ID X 1 1/2"L SPACER
01210	30	8	CASTOR TIRE AND RIM
300007	30	6	CASTOR FORK
90108	40		3 1/2 X 13 CYLINDER
20235	32	8	1/2" HOSE X 30"
0301	34	1	3/8" HOSE X 120"
0302	34	5	3/8" HOSE X 15"
90303	34	4	3/8" HOSE X 15 1/2"
1			

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PART #	PAGE	ITEM	DESCRIPTION
90304	34	8	3/8" HOSE X 17 1/2"
90305	34	9	3/8" HOSE X 30 1/2"
90306	34	10	3/8" HOSE X 22 1/2"
90307	34	12	3/8" HOSE X 51"
90308	34	13	3/8" HOSE X 50" 3/8" HOSE X 23"
90309	34	18	3/8" HOSE X 23" 3/8" HOSE X 96"
90310	32 34	9	60UA0606
90505	34	21	50UA0404
90507	32	7	бомвовив
90552	34	17	61UA0606
90645	40	2	CYLINDER SHAFT
90647	42	2	3 X 8 CYLINDER SHAFT
90648	44	2	3" CYLINDER END CAP
90662	40	3	3 1/2" CYLINDER CAP
90666	42	3	3" CYLINDER END CAP
90680	40	4	SEAL KIT 3 1/2"
90684	42	4	SEAL KIT FOR 3"
90690	34	2	60UA0606
90691	34	7	PIVOT CHECK VALVE
90700	40	5 5	PISTON 3 1/2" PISTON 3"
90705	42 34	11	3 X 8" CYLINDER
90711	28	3	3 1/2 X 13" CYLINDER
90712	24	19	3 X 10" CYLINDER
90720	40	6	PISTON NUT
90746	40	7	3 1/2" X 13 TUBE
90748	42	1	3 X 8" TUBE
90749	44	1	3 X 10" TUBE
91008	22	2	11-15LT SPLY TIRE
91050	36	16	15 X 8 X 6" WHEEL RIM
91060	22	1	WHEEL BOLT 1/2"
91062	38	10	WHEEL BOLT 5/8"
91070	36	6	611 HUB
91110	36	9 8	611 OUTER CONE 611 OUTER RACE
91130	36 36	4	611 INNER RACE
91170	36	3	611 INNER CONE
91210	36	11	CASTELLATED NUT 3/4"
91230	36	13	611 DUST CAP
91233	38	8	DUST CAP
91250	36	1	611 SPINDLE
91508	26	7	2062 CHAIN
91510	26	6	2062 CONNECTING LINK
91511	26	5	2062 HALF LINK
91603	24	22	PIN CYLINDER 1" X 3 1/4" PIN
91605	42 26	9	GREASE NIPPLE
92033	24	25	HITCH JACK
92040	24	15	SLOW MOVING SIGN
92061	22	8	RUBBER BUMPER
92063	32	2	2062 10T SPROCKET
92066	32	1	HYDRAULIC MOTOR
92067	32	6	5/8 X 1" MOT
92076	46	1	7BM CONTROL
92078	46	3	ELECTRICAL CORD(FIELD)
1			



#### WARRANTY

High-line Mfg. Inc., as manufacturer, warrants to the original retail purchaser of its products, that they are free from defective material and workmanship. The obligation of High-line Mfg. Inc. under this warranty is limited to the repair or replacement of defective parts or correction of improper workmanship of any part(s) of such machine(s) which shall, within one year from date of original delivery to original retail purchaser, be returned to a High-line Mfg. Inc. factory or designated preauthorized dealer location, transportation charges prepaid, and which High-line Mfg. Inc. will determine to its satisfaction upon examination thereof to have been defective.

This warranty covers the replacement of any defective part for which a standard Laurier warranty claim report has been made out and approved.

This warranty shall not apply to any machine or component thereof which shall have been repaired or altered outside High-line Mfg. Inc. factory or authorized dealer location in any manner contrary to High-line Mfg. Inc. specifications and instructions, or which, has been subjected to misuse, abuse, negligence or accident, or which has not been properly set up and operated in accordance with the recommendations set forth in High-line Mfg. Inc. Owners Manual.

High-line Mfg. Inc. reserves the right to make improvements in design or change in specifications at any time, without incurring any obligation to owners of units previously sold.

This warranty is only effective when the Laurier "Warranty Card" has been completed and returned within 20 days from the time of sale to the original retail purchaser.



P.O. BOX 307 VONDA, SK, CANADA S0K 4N0 (306) 258-2233