# FREEMAN

**MODEL** 1000

# BALE ACCUMULATOR

SERIAL NUMBERS 120 THRU 138

1990 PARTS LIST
AND
ASSEMBLY INSTRUCTIONS

manufactured and distributed by



J. A. FREEMAN & SON, INC.



PORTLAND, OREGON

PB/0001000



## BE CAREFUL

- 1. KEEP ALL SHIELDS IN PLACE.
- 2. STOP ENGINE OR MOTOR BEFORE LEAVING OPERATORS POSITION TO ADJUST, LUBRICATE, CLEAN, OR UNCLOG MACHINE, UNLESS OTHERWISE SPECIFICALLY RECOMMENDED IN THE "OPERATOR'S MANUAL."
- 3. WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING MACHINE.
- 4. KEEP HANDS, FEET, AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
- KEEP OFF EQUIPMENT UNLESS SEAT OR PLATFORM FOR OPERATION AND OBSERVATION IS PROVIDED.
- KEEP ALL OTHERS OFF.
- 7. USE APPROPRIATE SIGNS OR WARNING LIGHTS WHEN OPERATING ON HIGHWAYS.
- MAKE CERTAIN EVERYONE IS CLEAR OF MACHINE BEFORE STARTING ENGINE, MOTOR OR OPERATION.

#### **POLICY**

- 1. It is the policy of J.A. Freeman & Son, Inc. to constantly improve its products whenever it is practical to do so.
- 2. J.A. Freeman & Son, Inc. reserves the right to redesign or change its equipment or component parts thereof without incurring any obligation to install or furnish such changes on equipment previously delivered.
- Unauthorized changes or additions to equipment manufactured by J.A. Freeman & Son, Inc.
  relieves the company of further responsibility for warranted operation and breakage replacement.

#### INSTRUCTIONS FOR ORDERING PARTS

- 1. Order by part number and description of part.
  - (a) Parts should NOT be ordered from illustration only.
  - (b) Parts should NOT be ordered from numbers on castings.
- 2. Order by Bale Accumulator serial number and model.
- 3. Much delay and confusion can be avoided if parts numbers are arranged in sequence on all orders.
- 4. State how to ship: whether by truck, stage, parcel post, air parcel post, UPS, or air freight.
- 5. Claims for shortage or error in handling of an order for parts must be made upon receipt of goods.
- 6. Address all orders for parts as follows:

J.A. Freeman & Son, Inc. Parts Department, 2034 N.W. 27th Avenue, Portland, Oregon, 97210

Phone (503) 222-1971 FAX (503) 228-9668

Place serial number of machine here for your convenience:

Bale Accumulator Serial No.	Rala	Accumulator	Serial No	
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Left and right of machine are understood to mean from a position facing in the direction of travel.

Permission must be secured before any parts are returned for credit. When parts are returned, the freight must be prepaid or arrangements made so that they can be brought in by our trucks.

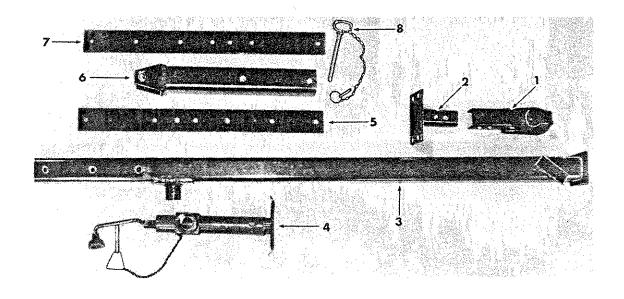
#### "NOTE"

Parts are identified by reference numbers. See parts list for correct part numbers. DO NOT USE REFERENCE NUMBERS AS PART NUMBERS.

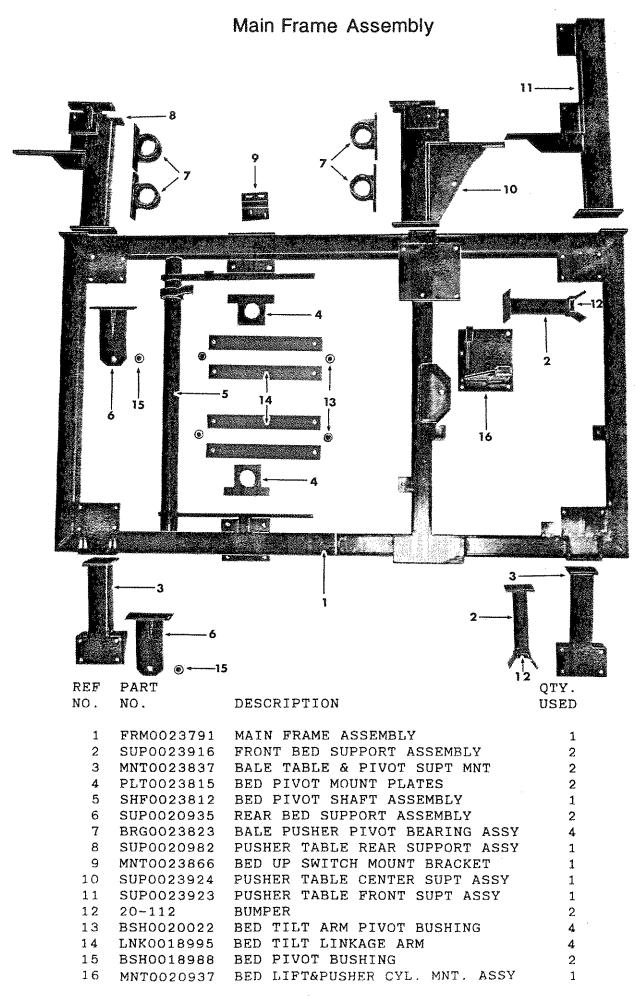
#### PART NUMBER INDEX

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13-156	01-521		HYD3269044	*****
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F 0008013	F 0000278		<b></b>	
F 0008028       4       SPC0023885       8         F 0008072       4       SPC0023886       8         F 0008348       4       SPG0023849       7         FD 0020169       14       SPK0060180       6,10         FRM0023791       2       SPK011536S       6,7         GAG0002112       12       SUP0020935       2         GUD0023777       5       SUP0020982       2,3         GUD0023795       5       SUP0021086       5         HOS0023903       10,12       SUP0021231       8         HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023909       10,12       SUP0023790       8         HOS0023910       10,12       SUP0023875       7         HOS0023911       10,12       SUP0023875       7         HOS0023913       7       SUP0023867       8         HOS0023930       14       SUP0023926       2         HRN0023931       14       SUP0023861       2         HRN0023932       14       TBL0023925       6         HRN0023933       14       TBL0023925       6      <				
F 0008072       4       SPC0023886       8         F 0008348       4       SPG0023849       7         FD 0020169       14       SPK0060180       6,10         FRM0023791       2       SPK011536S       6,7         GAG0002112       12       SUP0020935       2         GUD0023777       5       SUP0020982       2,3         GUD0023795       5       SUP0021086       5         HOS0023903       10,12       SUP0021231       8         HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023910       10,12       SUP0023790       8         HOS0023911       10,12       SUP0023875       7         HOS0023912       10,12       SUP0023876       6         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023924       2,3         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SUP0023924       2,3         HRN0023932       14       TBL0023925       6         HRN0023934       14       TBL0023926       6 <td></td> <td></td> <td></td> <td>• • • • • • • • • • • • • • • • • • • •</td>				• • • • • • • • • • • • • • • • • • • •
F 0008348				
FRM0023791       2       SPK011536S       6,7         GAG0002112       12       SUP0020935       2         GUD0023777       5       SUP0020982       2,3         GUD0023795       5       SUP0021086       5         HOS0023903       10,12       SUP0021231       8         HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023910       10,12       SUP0023790       8         HOS0023911       10,12       SUP0023875       7         HOS0023912       10,12       SUP0023887       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       TBL0023925       6         HRN0023934       14       TBL0023925       6         HRN0023935       14       TBL0023926       6         HRN0023935       14       VLV4434312       12		4		
GAG0002112       12       SUP0020935       2         GUD0023777       5       SUP0020982       2,3         GUD0023795       5       SUP0021086       5         HOS0023903       10,12       SUP0021231       8         HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023910       10,12       SUP0023875       7         HOS0023911       10,12       SUP0023876       6         HOS0023912       10,12       SUP0023887       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023931       14       SUP0023924       2,3         HRN0023932       14       TBL0023924       2,3         HRN0023933       14       TBL0023926       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV0434312       10         HTH0023902       1       VLV4434312       12			SPK0060180	
GUD0023777       5       SUP0020982       2,3         GUD0023795       5       SUP0021086       5         HOS0023903       10,12       SUP0021231       8         HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023910       10,12       SUP0023790       8         HOS0023911       10,12       SUP0023875       7         HOS0023912       10,12       SUP0023887       6         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SUP0023924       2,3         HRN0023932       14       TBL0023926       6         HRN0023933       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12				
GUD0023795       5       SUP0021086       5         HOS0023903       10,12       SUP0021231       8         HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023910       10,12       SUP0023790       8         HOS0023911       10,12       SUP0023875       7         HOS0023912       10,12       SUP0023876       6         HOS0023913       7       SUP0023876       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SWI0005079       14         HRN0023933       14       TBL0023925       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12				
HOS0023904       10,12       SUP0023784       5         HOS0023908       10,12       SUP0023785       5         HOS0023909       10,12       SUP0023790       8         HOS0023910       10,12       SUP0023875       7         HOS0023911       10,12       SUP0023876       6         HOS0023912       10,12       SUP0023876       8         HOS0023913       7       SUP0023876       2         HRN0023929       14       SUP0023916       2         HRN0023930       14       SUP0023923       2         HRN0023931       14       SUP0023924       2,3         HRN0023932       14       TBL0023861       6         HRN0023934       14       TBL0023925       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12		5		· ·
HOS0023908       10,12       SUP0023785       5         HOS0023909       10,12       SUP0023870       8         HOS0023910       10,12       SUP0023875       7         HOS0023911       10,12       SUP0023876       6         HOS0023912       10,12       SUP0023887       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023931       14       SUP0023924       2,3         HRN0023932       14       SWI0005079       14         HRN0023933       14       TBL0023925       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12	HOSO023903	1 10,12		-
HOSO023909       10,12       SUP0023790       8         HOS0023910       10,12       SUP0023875       7         HOS0023911       10,12       SUP0023876       6         HOS0023912       10,12       SUP0023887       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SWI0005079       14         HRN0023932       14       TBL0023925       6         HRN0023934       14       TBL0023925       6         HRN0023935       14       TBL0023926       6         HRN0023902       1       VLV4434312       12				• • • • • • • • • • • • • • • • • • • •
HOS0023910       10,12       SUP0023875       7         HOS0023911       10,12       SUP0023876       6         HOS0023912       10,12       SUP0023887       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023931       14       SUP0023924       2,3         HRN0023932       14       SWI0005079       14         HRN0023933       14       TBL0023861       6         HRN0023934       14       TBL0023925       6         HRN0023935       14       TBL0023926       6         HRN0023902       1       VLV4434312       12				• • • • • • • • • • • • • • • • • • • •
HOS0023911       10,12       SUP0023876       6         HOS0023912       10,12       SUP0023887       8         HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SWI0005079       14         HRN0023932       14       TBL0023861       6         HRN0023933       14       TBL0023925       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12		) 10,12		
HOS0023913       7       SUP0023916       2         HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SWI0005079       14         HRN0023932       14       TBL0023861       6         HRN0023934       14       TBL0023925       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12			SUP0023876	
HRN0023929       14       SUP0023923       2         HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SWI0005079       14         HRN0023932       14       TBL0023861       6         HRN0023934       14       TBL0023925       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12		-		
HRN0023930       14       SUP0023924       2,3         HRN0023931       14       SWI0005079       14         HRN0023932       14       TBL0023861       6         HRN0023933       14       TBL0023925       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12		at a		
HRN0023931       14       SWI0005079       14         HRN0023932       14       TBL0023861       6         HRN0023933       14       TBL0023925       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12	HENUUSSASS RENUUSSASS			
HRN0023932       14       TBL0023861       6         HRN0023933       14       TBL0023925       6         HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12		,		
HRN0023934       14       TBL0023926       6         HRN0023935       14       VLV00F30BK       10         HTH0023902       1       VLV4434312       12		2 14		
HRN0023935				
HTH0023902 1 VLV4434312		- 4		• • • • • • • • • • • • • • • • • • • •
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	HYD3069040	0 10,12		

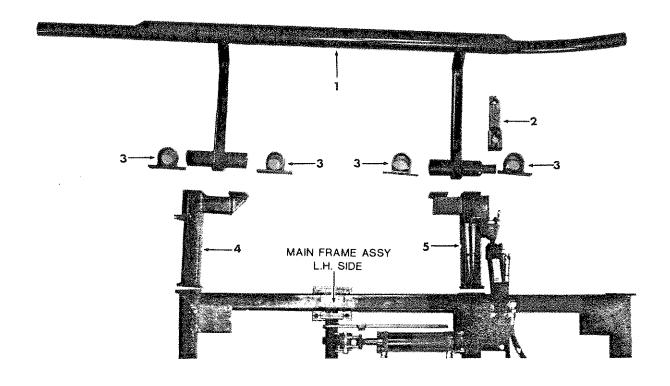
## Drawbar And Hitch Assembly



REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	HTH0023902	BALL HITCH ASSEMBLY	1
2	MNT0020930	DRAWBAR BALL HITCH MOUNT ASSY	1
3	DRB0020928	DRAWBAR ASSEMBLY	1
4	JCK0000158	FRONT END JACK(LOCK PIN TYPE)	1
5	DRB0020984	DRAWBAR UPPER CONNECTION PLATE	1
6	DRB0023855	REAR DRAWBAR ASSEMBLY	1
7	DRB0023936	DRAWBAR LOWER CONNECTION PLATE	1
8	PIN0500650	HITCH PIN	1

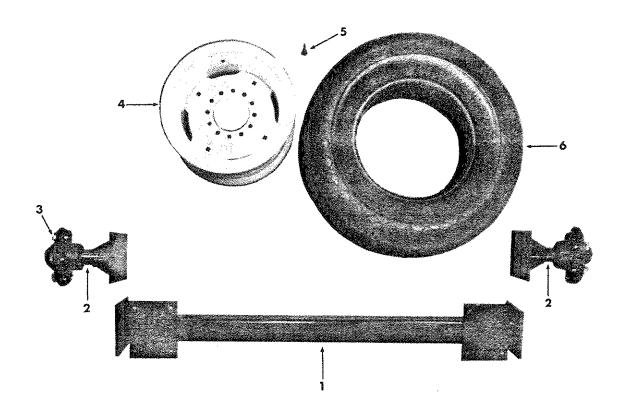


#### Bale Pusher And Mounts



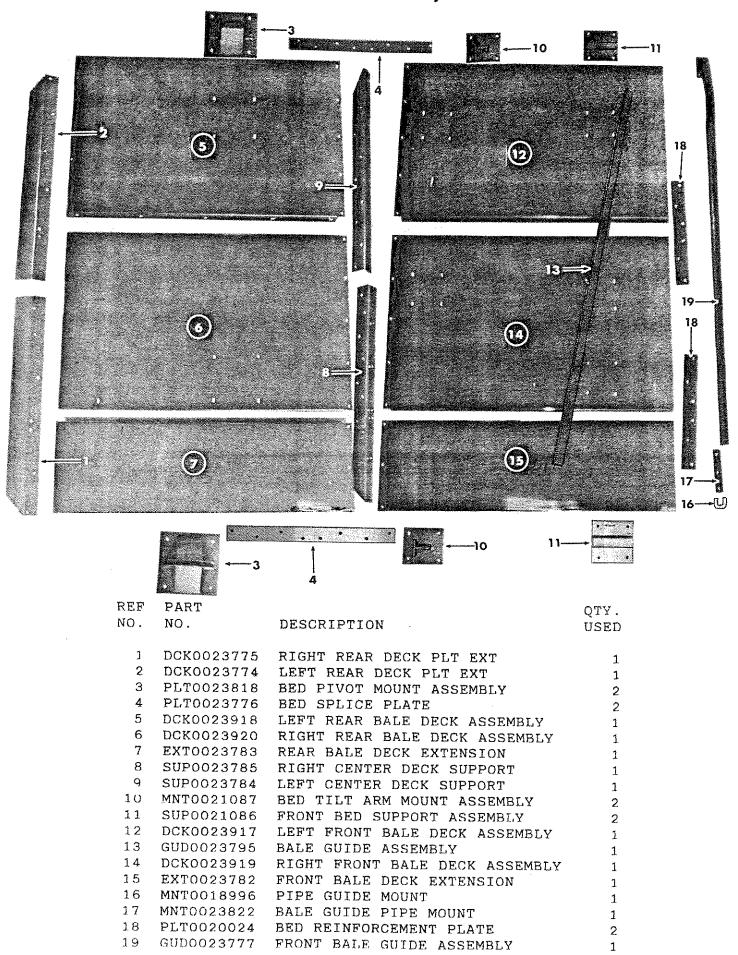
REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	PSH0023841	BALE PUSHER ASSEMBLY	1
2	LEV0020092	BALE PUSHER LEVER ARM	1
3	BRG0023823	BALE PUSHER PIVOT BEARING ASSY	4
4	SUP0020982	PUSHER TABLE REAR SUPPORT ASSY	1
5	SUP0023924	PUSHER TABLE CENTER SUPT ASSY	1

#### Axle, Wheel And Tire Group

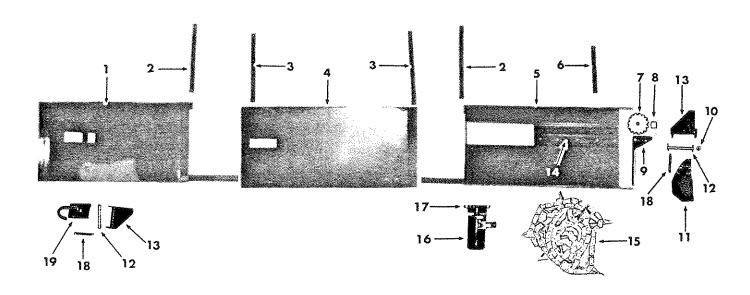


REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	AXL0023901	ACCUMULATOR AXLE	1
2	F 0008348	HUB & SPINDLE ASSY - 6-HOLE	2
3	F 0008072	LUG BOLT- 6-HOLE HUB	12
4	F 0008013	FLOTATION WHEEL-6 HOLE	2
5	19-109	VALVE STEM	2
6	F 0008028	FLOTATION TIRE, 11:5 L-15 6-PLY	2

#### **Bed Assembly**

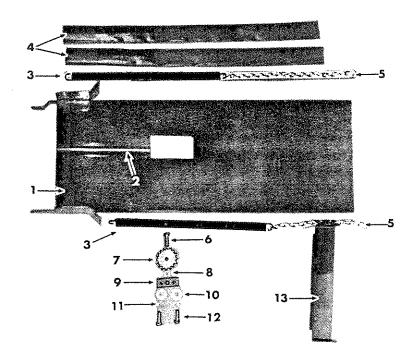


## Bale Pusher Table Assembly



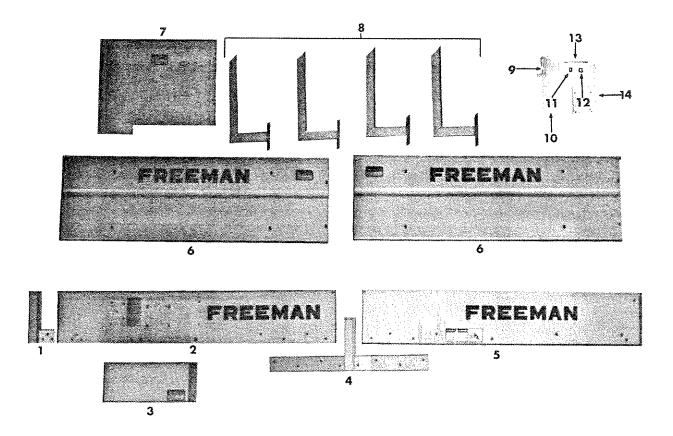
	PART NO.	DESCRIPTION	QTY. USED
1	TBL0023861	REAR BALE PUSHER TABLE ASSY	1
2	BRC0023883	PUSHER TBL BRACE, FRONT & REAR	2
3	BRC0023884	CENTER PUSHER TABLE BRACE	2
4	TBL0023925	CENTER BALE PUSHER TABLE ASSY	1
5	TBL0023926	FRONT BALE PUSHER TABLE ASSY	1
6	BRC0023915	FRONT PUSHER TABLE BRACE	1
7	SPK011536S	IDLER SPOCKET - 010-6015S	1
8	SPC0023878	IDLER SPROCKET SPACER	1
9	MNT0023869	PUSHER TABLE SPROCKET MOUNT	1
10	ZZ 0002016	3/8 SET COLLAR	1
11	OPR0023928	FRNT PUSHER TABLE SWI OPERATOR	1
12	11-260	ACTUATOR PIVOT PIN	2
13	11-258	BRACKET-LIMIT SWITCH	2
14	SUP0023876	PUSHER TABLE CHAIN SUPPORT	1
15	CHN0023977	BALE CHAIN ASSEMBLY	1
15	CNK0002060	CONNECTING LINK - C2060H	1
16	MTR1011006	HYDRAULIC MOTOR	1
17	SPK0060180	SPROCKET, 18 TOOTH	1
18	F 0000278	RETURN SPRING	2
19	OPR0023881	PUSHER TABLE SWITCH OPERATOR	1

## Bale Elevator Assembly



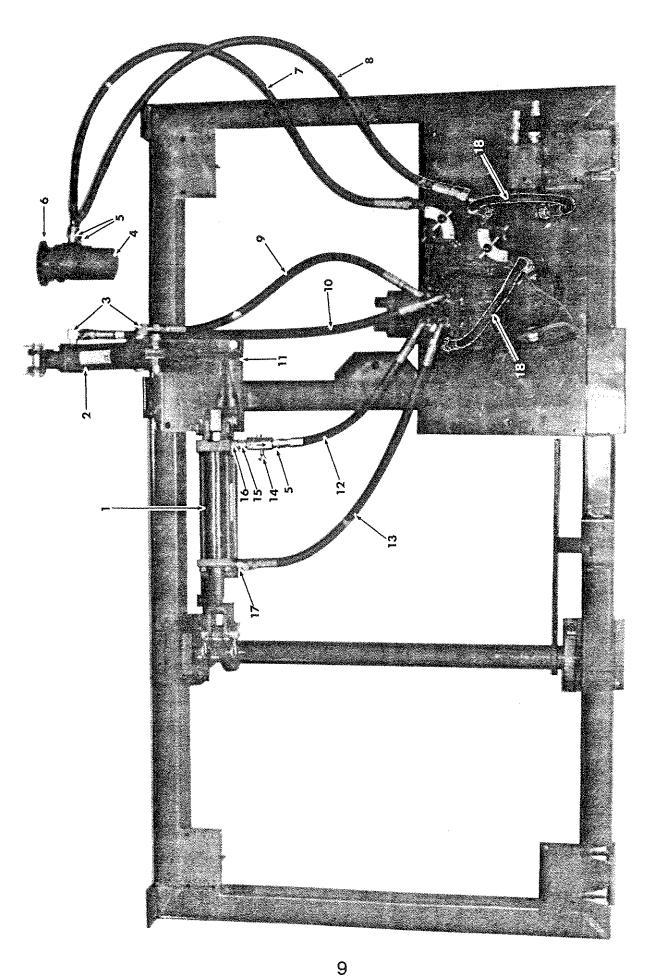
	PART		QTY.
NO.	NO.	DESCRIPTION	USED
1	ELV0023926	DATE ETENAMON ACCEMENT	,
-		BALE ELEVATOR ASSEMBLY	1
2	SUP0023875	BALE ELEVATOR CHAIN SUPPORT	1
3	SPG0023849	ELEVATOR BALE GUIDE SPRING	2
4	HOS0023913	BALE GUIDE SPRING COVER HOSE	2
5	CHN0020028	BALE GUIDE CHAIN X 28 LINKS	2
6	SCC0070008	5/8 X 2-1/2 NC HT CS - PLATED	1
7	SPK011536S	IDLER SPOCKET - 010-6015S	1
8	SPC0023879	ELEVATOR SPROCKET MOUNT SPACER	1
9	MNT0023863	ELEVATOR SPROCKET MOUNT	1
10	WCT0000750	3/4" FLATWASHER - PLATED	2
11	WLK0000750	3/4" LOCKWASHER - PLATED	2
12	SCC0080003	3/4" X 1-1/4" NC HT CS PLATED	2
13	MNT0023927	BALE ELEVATOR - DRAWBAR MOUNT	1

#### Shields



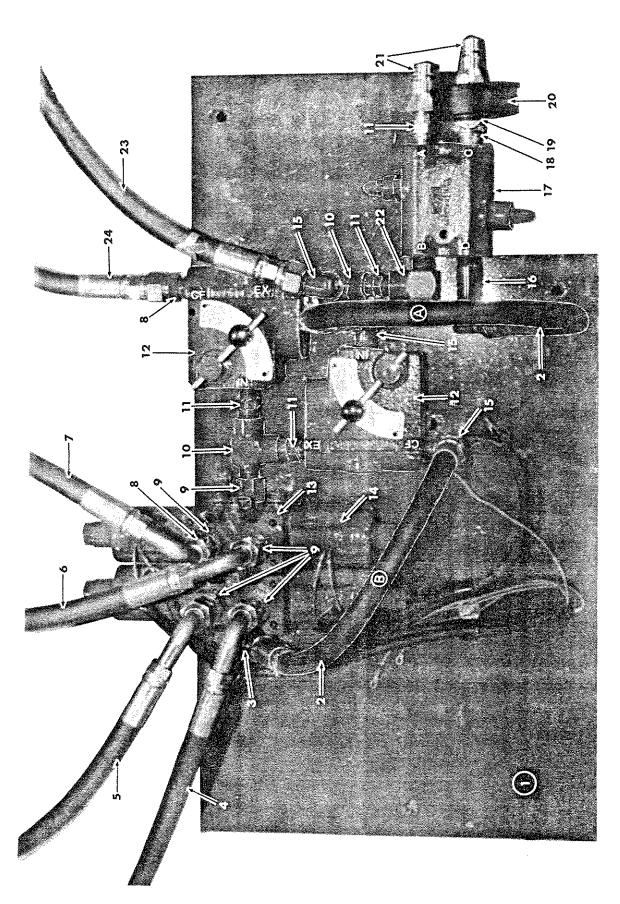
REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	SUP0021231	REAR BED SIDE SUPPORT ASSY	1
2	PLT0023789	REAR BED SIDE PLATE	1
3	SHD0023862	BED TILT SWITCH SHIELD	1
4	SUP0023790	BED SIDE SUPPORT ASSEMBLY	1
5	PLT0023788	FRONT BED SIDE PLATE	1
6	SHD0023896	PUSHER TABLE SIDE SHIELD	2
7	SHD0020031	PUSHER TABLE REAR SHIELD	1
8	SUP0023887	PUSHER TABLE SHIELD SUPPORT	4
9	F 0000278	SPRING F/KNOTTER TRIP ARM	2
10	OPR0023922	BED TILT SWITCH OPERATOR	1
11	SPC0023886	TILT SWITCH OPERATOR SPACER	1
12	SPC0023885	TILT SWITCH OPERATOR SPACER	1
13	PIN0023871	BED TILT SWITCH PIVOT PIN	1
14	MNT0023921	BED TILT SWITCH & OPERATOR MNT	1

## Main Frame Hydraulics



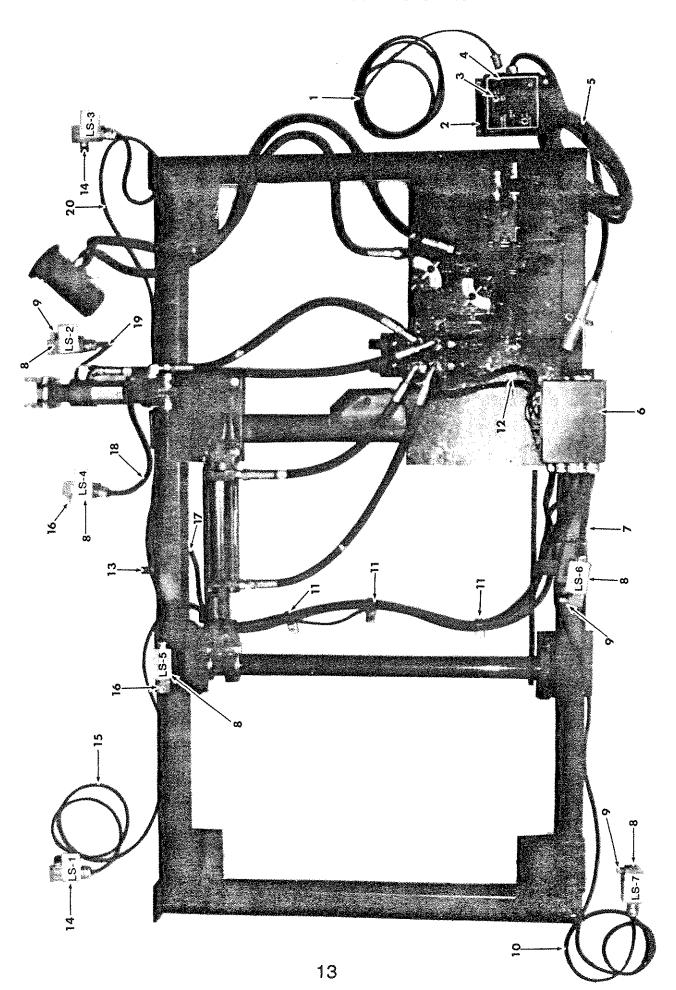
## Main Frame Hydraulics

	PART NO.	DESCRIPTION	QTY. USED
1	CYL0025800	2.5 X 8 HYDRAULIC CYLINDER	1
2	F 0006519	2 X 8 HYDRAULIC CYLINDER	1
3	HYD5515054	1/2 JIC X 5/8 O-RING 90* ELBOW	2
4	MTR1011006	MOTOR - 101-1006	1
5	HYD5205054	5/8 JIC X 1/2 NPT MALE CONN	3
6	SPK0060180	SPROCKET 60BS18 1" BORE UST	1
7	HOS0023903	BALE CHAIN MOTOR HOSE 55 1/2"	1
8	HOS0023904	BALE CHAIN MOTOR HOSE 58"	1
9	HOSO023909	PUSHER CYLINDER BASE END HOSE	1
10	HOS0023910	PUSHER CYLINDER ROD END HOSE	1
11	MNT0020937	BED LIFT&PUSHER CYL. MNT. ASSY	1
12	HOS0023911	TILT CYLINDER BASE END HOSE	1
13	HOS0023912	TILT CYLINDER ROD END HOSE	1
14	VLV00F30BK	RESTRICTOR VALVE	1
15	HYD3069040	1/2" NPT STEEL HEX NIPPLE	1
16	HYD3269044	1/2 O-RING X 1/2 NPT FEM ADAPT	1
17	HYD5315054	5/8JIC X 1/2 O-RNG ST THD CONN	1
		BED TILT VALVE HOSE	2



## Hydraulic Panel Assembly

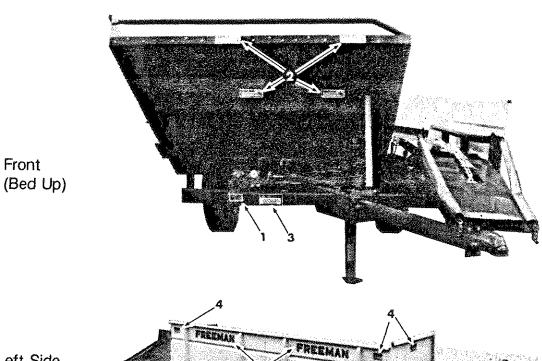
REF	PART		QTY.
NO.	NO.	DESCRIPTION	HSED.
			0020
1	PLT0023786	VALVE MOUNT PLATE	1
2	H0S0023908	BED TILT VALVE HOSE	2
3	HYD5515054	1/2 JIC X 5/8 O-RING 90* ELBOW	1
4	HOSO023912	TILT CYLINDER ROD END HOSE	1
5	HOS0023911	TILT CYLINDER BASE END HOSE	1
6	HOSO023910	PUSHER CYLINDER ROD END HOSE	1
7	HOS0023909	BALE PUSHER CYL BASE END HSE	1
8	HYD5205054	5/8 JIC X 1/2 NPT MALE CONN	5
9	HYD3269044	1/2 O-RING X 1/2 NPT FEM ADAPT	5
10	n1D3139040	1/2 NPT STEEL MALE RUN TEE	2
11	HYD3069040	1/2 NPT STEEL HEX NIPPLE	4
12	01-521	1/2" FLOW CONTROL VALVE	2
13	VLV4434312	STACK VALVE MV4-43-43-12LA FPS	1
14	03-142	SOLENOID F/FPS 4013 VALVE	A/R
15	HYD5405050	5/8 JIC X 1/2 NPT 90* MALE ELB	3
16	HYD5435050	5/8JIC X 1/2NPT 90* X-LONG ELB	1
17	01-510	RELIEF VALVE	1
18	HYD5601050	1/2 NPT FEMALE BRANCH TEE	1
19	HYD3209042	1/2 X 1/4 NPT REDUCING ADAPTER	1
20	GAG0002112	3000# HYDRAULIC GAUGE - 2-1/2"	1
21	CPL0080104	1/2. HADKWOFIC ONICK CORFFER	2
22	HYD3409040	1/2 X 90* STEEL STREET ELBOW	1
23	HOSO023904	BALE CHAIN MOTOR HOSE 58"	1
24	HOS0023903	BALE CHAIN MOTOR HOSE 55 1/2"	1



#### Wire Harnesses And Switches

PART		QTY.
NO.	DESCRIPTION	USED
		_
CBL0023760	12V POWER SUPPLY HARNESS	1
B0X0201680	TRACTOR CONTROL BOX, COMPLETE	1
LIT0001815	MINIATURE LAMP	1
FD 0020169	CONTROL BOX DECAL	1
CBL0023759	TRACTOR CONTROL BOX CABLE	1
B0X0201740	ACCUMULATOR CONTROL BOX, COMPL	1
SWI0005079	LIMIT SWITCH-4 POST	5
ARM0005001	1-1/2" LEVER ARM W/3/4" ROLLER	3
HRN0023935	HARNESS, CONTROL BOX TO LS-7	
CLP7701153		
03-158	LIMIT SWITCH-MICRO	2
HRN0023929	HARNESS, CONTROL BOX TO LS-1	1
ARM0005084	3" LEVER ARM W/3/4" ROLLER	2
HRN0023933	HARNESS, CONTROL BOX TO LS-5	1
HRN0023932	HARNESS, CONTROL BOX TO LS-4	
HRN0023930	HARNESS, CONTROL BOX TO LS-2	1
HRN0023931	HARNESS, CONTROL BOX TO LS-3	1
	NO.  CBL0023760 BOX0201680 LIT0001815 FD 0020169 CBL0023759 BOX0201740 HRN0023934 SWI0005079 ARM0005001 HRN0023935 CLP7701164 CLP7701162 O3-158 HRN0023939 ARM0005084 HRN0023933 HRN0023933	DESCRIPTION  CBL0023760 12V POWER SUPPLY HARNESS BOX0201680 TRACTOR CONTROL BOX, COMPLETE LIT0001815 MINIATURE LAMP FD 0020169 CONTROL BOX DECAL CBL0023759 TRACTOR CONTROL BOX CABLE BOX0201740 ACCUMULATOR CONTROL BOX, COMPL HRN0023934 HARNESS, CONTROL BOX TO LS-6 SWI0005079 LIMIT SWITCH-4 POST ARM0005001 1-1/2" LEVER ARM W/3/4" ROLLER HRN0023935 HARNESS, CONTROL BOX TO LS-7 CLP7701164 1-1/4" INSULATED HOSE CLAMP CLP7701153 3/8" W 9/32"HOLE INSUL CLAMP CLP7701162 1" INSUL VINYL CLAMP CLP7701162 1" INSUL VINYL CLAMP CLP7701163 3/8" W 9/32"HOLE INSUL CLAMP CLP7701164 1-1/4" INSULATED HOSE CLAMP CLP7701165 1" INSUL VINYL CLAMP CLP7701162 1" INSUL VINYL CLAMP CLP7701163 3/8" W 9/32"HOLE INSUL CLAMP CLP7701164 1-1/4" INSULATED HOSE CLAMP CLP7701165 1" INSUL VINYL CLAMP CLP7701165 1" INSUL VINYL CLAMP CLP7701166 1" INSUL VINYL CLAMP CLP7701167 1" INSUL VINYL CLAMP CLP7701168 1" INSUL VINYL CLAMP CLP7701169 1" INSUL VINY

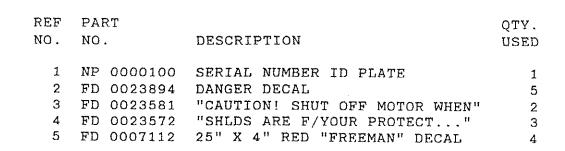
#### **Decals**



Left Side



Right Side



### ASSEMBLY MANUAL FOR THE 1000 BALE ACCUMULATOR

Please note that the part numbers in the parentheses and the page numbers are referenced to the parts section of this book.

Set the Mainframe on four stands, in order to install the axle assembly and the drawbar assembly.

#### Step One Axle Assembly AXL0023901

1. With the frame on the four stands, slide the axle under the frame.

NOTE: The front of the axle is considered the side with the four small holes on it.

2. Bolt the axle to the frame, using only the two outside holes on both sides of the axle, with four 1/2"-13 UNC X 1-1/4" hex head cap screws and four 1/2" spring lock washers.

NOTE: Do not tighten these bolts.

- 3. Slide the two bed pivot mount plates (PLT0023815, page two) on to the bed pivot shaft assembly (SHF0023812, page two).
- 4. With the cylinder mount on the left side and pointed forward, place the bed pivot shaft assembly over the four remaining axle bolt holes and secure with four 1/2"-13 UNC X 3" hex head cap screws and four spring lock washers.
- 5. Tighten all eight axle bolts.
- 6. Install the right and left hub and spindle assemblies (F0008348, page four) using twelve 5/8"-18 UNF X 2" hex head cap screws, twelve 5/8" internal star lock washers, and twelve 5/8"-18 UNF hex nuts.
- 7. Attach the two mounted flotation tires to the right and left hub assemblies.

#### Step Two Drawbar Assembly

- 1. Attach the rear drawbar assembly (DRB0023855, page one) to the main frame using one 3/4"-10 UNC X 6-1/2" hex head cap screw and one 3/4"-10 UNC esna nut. NOTE: Do not tighten any of the bolts until the last step.
- 2. Attach the upper and lower connection plates (DRB0020984 and DRB0023936, page one) to the rear section of the drawbar assembly using two 1/2"-13 UNC X 6" hex head cap screws, two 1/2" spring lock washers, and two 1/2"-13 UNC hex nuts.
- 3. Slide the front drawbar assembly (DRB0020928, page one) between the upper and lower connection plates and bolt in place using three 1/2"-13 UNC X 6" hex head cap screws, three 1/2" spring lock washers, and three 1/2"-13 UNC hex nuts.
- 4. Install the drawbar hitch mount assembly (MNT0020930, page one) using four 1/2"-13 UNC X 1-1/2" hex head cap screws, four 1/2" spring lock washers, and four 1/2"-13 UNC hex nuts.
- 5. Attach the ball hitch assembly (HTH0023902, page one) to the ball hitch mount assembly using two 1/2"-13 UNC X 3" hex head cap screws, two 1/2" spring lock washers, and two 1/2"-13 UNC hex nuts.
- 6. Attach the drawbar jack (JCK0000158, page one) to the drawbar. NOTE: The two front stands can be removed, but the two rear stands should be left in place.
- 7. Tighten all nuts on the drawbar assembly.

#### Step Three Hydraulic Assembly

- Attach the hydraulic plate (PLT0023786, page twelve) to the mainframe at the right front corner using four 3/8"-18 UNC X 1-1/4" hex head cap screws, four 3/8" spring lock washers, four 3/8" flat washers, and four 3/8"-18 UNC hex nuts.
- 2. Attach the bed lift and pusher cylinder mount assembly to the cylinder mounting plate (MNT0020937, page ten), located left of center on the mainframe, using four 1/2"-13 UNC X 1-1/4 hex head cap screws and four 1/2" spring lock washers.
- 3. Attach the base end of the bed tilt cylinder (CYL0025800, page ten) to the bed lift and pusher cylinder mount assembly using one 1" cylinder pin and two hair pin cotters.
- 4. Attach the rod end of the bed tilt cylinder to the bed pivot shaft assembly using one 1" cylinder pin and two hair pin cotters.
- 5. Attach the base end of the bale pusher cylinder (F00006519, page ten) to the bed lift and pusher cylinder mount assembly using one 1" cotter pin and two hair pin cotters.
- 6. Attach the hydraulic hoses with this procedure:
- NOTE: For the following procedure reference parts book section pages 9 and 11.
  - A. Attach hose "A" (HOS0023908) to the cross port relief valve "D" port and to the tilt flow control valve "IN" port.
  - B. Attach hose "B" (HOS0023908) to the tilt flow control valve "CF" port and to the rear solenoid valve "IN" port.

- C. On the bed tilt cylinder, attach a 1/2" o-ring X 5/8" JIC male connector to the rod end port. Attach, in order, the following to the base end port: 1/2" o-ring X 1/2" female NPT (HYD3269044), 1/2" X 1/2" NPT male hex nipple (HYD3069040), 1/2" NPT adjustable flow restrictor (VLV00F30BK), and a 1/2" NPT X 5/8" JIC male connector (HYD5205054).
- D. Attach the 90 degree fitting on hose (HOS0023911) to the left port of rear solenoid valve and attach the straight end to the 5/8" JIC fitting on the adjustable flow restrictor at the base end of the bed tilt cylinder.
- E. On both the rod and base end of the bale pusher cylinder (CYL0020800), attach 1/2" oring X 5/8" JIC 90 degree elbows and point them toward the base end of the cylinder.
- F. Attach the 90 degree fitting on hose (HOS0023910) to the right port of front solenoid valve and attach the straight end of the hose to the rod end of the bale pusher cylinder.
- G. Attach the 90 degree fitting on hose (HOS0023909) to the left port of front solenoid valve and attach the straight end of the hose to the base end of the bale pusher cylinder.
- H. Attach the straight end of hose (HOS0023904) to 90 degree elbow on the front flow control valve (01-521) "EX" port.
- I. Attach the straight end of hose (HOS0023903) to "CF" port on the front flow control valve.
- J. Tighten all fittings at this time, except where noted below.
- NOTE: The 90 degree end of hoses used in steps I and H will be attach to the front and rear ports of the pusher table motor (MTR1011006) at a later time. Do not tighten either of these hoses at this time.

## Step Four Right and Left Frame Extension

- 1. Attach the pusher table front support assembly (SUP0023923, page two) to the left front mounting plate using four 1/2"-13 UNC X 1-1/4" hex head cap screws, four spring lock washers, and four 1/2"-13 hex nuts.
- 2. Attach the pusher table center support assembly (SUP0023924, page two) to the left center mount plate using four 1/2"-13 UNC X 1-1/4" hex head cap screws, four 1/2" spring lock washers, and four 1/2"-13 UNC hex nuts.
- 3. Attach the pusher table rear support assembly (SUP002982, page two) to the left rear mount plate using four 1/2"-13 UNC X 1-1/4" hex head cap screws, four 1/2" spring lock washers, and four 1/2"-13 UNC hex nuts.
- 4. Attach the bed up switch mount up bracket (MNT0023866, page two) to the weld on pad, on the center left mainframe tube, using two 1/4"-20 UNC X 3/4" hex head cap screws, two 1/4" spring lock washers, and two 1/4" flat washers.
- 5. Attach the right front support mount (MNT0023837, page two) to the right front mounting plate, on the right front side of the mainframe, using four 1/2"-13 UNC X 1-1/4" hex head cap screws, four 1/2" spring lock washers, and four 1/2"-13 UNC hex nuts.
- 6. Attach the right rear bed support mount (MNT0023837, page two) to the right rear mounting plate, on the right rear side of the mainframe, using four 1/2"-13 UNC X 1-1/4" hex head cap screws, four 1/2" spring lock washers, and 1/2"-13 UNC hex nuts.
- 7. Attach the right rear bed support assembly (SUP0020935, page two) to the right rear bed support mount using four 3/8"-16 UNC X 1-1/4" hex head cap screws, four 3/8" spring lock washers, and four 3/8"-16 UNC hex nuts.
- 8. Attach the left rear bed support (SUP0020935, page two) to the welded on pad, on the inside left rear corner of the mainframe, using four 3/8"-16 UNC X 1-1/4" hex head cap screws, four 3/8" spring lock washers, and four 3/8"-16 UNC hex nuts.

- 9. Attach the right front bed support assembly (SUP0023916, page two) to the right front bed support mount using four 3/8"-16 UNC X 1-1/4" hex head cap screws, four 3/8" spring lock washers, and four 3/8"-16 UNC hex nuts.
- 10. Attach the left front bed support assembly (SUP0023916, page two) to the welded on pad, inside the left front corner of the mainframe, using four 3/8"-16 UNC X 1-1/4" hex head cap screws, four 3/8" spring lock washers.

## Step Five Electrical Assembly

- 1. Attach electrical control box (BOX0201740, page fourteen) to the right side of the mainframe and hydraulic panel using four 1/4"-20 UNC X 3/4" hex head cap screws, four 1/4" spring lock washers.
- 2. Switch mounting procedure:
- NOTE: All switches are mounted using two 10-32 UNF X 1/2" round head screws, two #10 spring lock washers, two #10 flat washers on limit switches only, and two #10 hex nuts.
- NOTE: Switches LS-1 micro, LS-3 micro, and LS-7 limit will be install later in the bed and pusher table assembly.
- NOTE: The wiring which runs to the switches is held by seven 1-1/4" vinyl clamps (CLP7701164, page fourteen), four 1" vinyl clamps (CLP7701162, page four-teen), and twenty-three 3/8" vinyl clamps (CLP7701153). The wires crossing from the control box to the left side of the mainframe will cross using the four holes drilled in the front of the axle. These vinyl clamps are held to the mainframe and the supports using 1/4"-20 UNC X 1/2" self tapping screws.

- A. Attach the bale pusher return switch (LS-2) (SWI0005079, page four-teen), with a short roller arm (ARM0005001, page four-teen), to the top switch bracket on the left center bed support.
- B. Attach bale pusher stop switch (LS-4), with a long roller arm (ARM0005084, page four-teen), to the switch mount bracket at the front of left center bed support.
- C. Attach bed tilt up stop switch (LS-5), with a short roller arm, to switch bracket located on the right tube of mainframe.

#### Step Six Bed Assembly

- NOTE: Do not tighten the bale deck bolts until the deck plates and supports have been assembled.
- NOTE: The bed will be assembled using the required amount of the following, except where instructions differ: 3/8"-16 UNC X 1-1/4" hex head cap screws, 3/8" spring lock washers, and 3/8"-16 hex nuts. On bolts going through the bed deck the hex head cap screws will be replaced by 3/8"-16 UNC X 1-1/4" socket button head screws and 3/8" flat washers.
- 1. Attach the right rear and left rear bale deck assemblies (DCK0023920 and DCK0023918, page five) together.
- 2. Attach the two bed pivot mount plates (PLT0023818, page five) to the bottom of the right and left deck plates.
- 3. Place the two bed pivot bushings (BSH0018988, page two) into the holes in the rear bed supports.
- 4. Move the assembled bed parts to the rear of the mainframe and slide the bed pivot mount plates over the two bed pivot bushings in the rear bed supports. Attach the bed to the rear bed supports using two 1/2"-13 UNC X 2" hex head cap screws and two 1/2" UNC nylon locking esna nuts.

- NOTE: The bolts in step 4 should be tighten at this time.
- 5. Attach the rear fifth bale extension (EXT0023783, page five) to the right rear bale deck.
- 6. Attach the right and left center deck supports (SUP0023785 and SUP0023784, page five) to the right and left rear bale deck assemblies.
- 7. Attach one long deck splice plate (PLT0023776, page five) to the right and left center deck supports.
- 8. Attach the right and left rear deck plates (DCK0023775 and DCK0023774, page five) to the right and left bale deck assemblies.
- NOTE: Ensure that the rear half of the bale deck assembly is tilted down to make the assembly of the front half of the bale deck easier and safer. The rear stands are no longer needed.
- 9. Attach one front bed rest (SUP0021086, page five) to the left front bale deck assembly and tighten bolts.
- 10. Attach one bed tilt arm mount assembly (MNT0021087, page five) to the rear four holes in the left front bale deck assembly, with the bushing hole pointed towards the front of the bale deck assembly.
- 11. Attach the left front bale deck assembly (DCK0023917, page five) to the left rear bale deck assembly.
- 12. Attach one front bed rest (SUP0021086, page five) to the right front bale deck assembly (DCK0023919, page five).
- 13. Attach one bed tilt arm mount assembly (MNT0021087, page five) to the rear four holes in the right front bale deck assembly with the bushing hole pointed toward the front of the bale deck assembly.
- 14. Attach the right front bale deck assembly to the left front and right rear bale deck assemblies.
- 15. Attach the front fifth bale extension (EXT0023782, page five) to the right front bale deck assembly and the right center bale deck support.
- 16. Attach one long splice plate (PLT0023776, page five) to the left side of the bale deck.

- 17. Attach two short splice plates (PLT0020024, page five) to the front of the bale deck assembly.
- 18. Tighten all of the fasteners in the following sequence to allow for proper alignment of the bale deck:
  - A. Level the right and left rear bale deck assembly pieces and then tighten hex head cap screws.
  - B. Level the rear fifth bale extension to the right rear bale deck assembly and tighten hex head cap screws.
  - C. Level the right and left front bale deck assembly pieces and then tighten hex head cap screws.
  - D. Level the front fifth bale extension to the right front bale deck assembly and tighten hex head cap screws.
  - E. Tighten the socket button head screws ensuring proper alignment as bolts are tighten.
  - F. Tighten all the splice plates and the two rear deck plates.

NOTE: Ensure that all fasteners are tight at this point.

## Step Seven Bale Pusher Assembly

- 1. Attach the four bale pusher pivot bearing assemblies (BRG0023823, page three) to the bale pusher assembly (PSH0023841, page three) then attach the bale pusher pivot bearing assemblies to the holes in the left rear and center pusher table supports using eight 1/2"-13 UNC X 1-1/2" hex head cap screws, eight 1/2" spring lock washers, and eight 1/2"-13 UNC hex nuts. Tighten bolts.
- 2. Place 1/2" X 1/2" X 2" square key into key way and slide bale pusher lever arm (LEV0020092, page three) onto shaft using two 1/2"-13 UNC X 3-1/4" hex head cap screws, two 1/2" spring lock washers, and two 1/2"-13 UNC hex nuts. Tighten bolts.

- 3. Attach the bale pusher cylinder to the pusher lever arm using a one inch cylinder pin.
- NOTE: Be careful not to break roller arm on limit switch (LS-4). Limit switch arm should be between the cylinder body and rod end clevis.

#### Step Eight Bale Pusher Table

- 1. Attach the rear bale pusher table assembly (TBL0023861, page six) and the center bale pusher table assembly (TBL0023925, page six) together using three 1/3"-16 UNC X 2-1/4" hex head cap screws, three 3/8" spring lock washers, and 3/8"-16 UNC hex nuts.
- 2. Attach the bale pusher table assembly to the center and rear bale pusher table supports (SUP0020935 and SUP0023924, page two) using two 3/8"-16 UNC X 1-1/4" hex head cap screws, two 3/8" flat washers, two 3/8" spring lock washers, and two 3/8"-16 UNC hex nuts.
- 3. Attach the front bale pusher table assembly (TBL0023926, page six) to the center bale pusher table using three 3/8"-16 UNC X 2-1/4" hex head cap screws, three 3/8" spring lock washers, and 3/8"-16 UNC hex nuts.
- 4. Attach the front bale pusher table assembly to the front bale pusher table support (SUP0023923, page two) using one 3/8"-16 UNC X 1-1/4" hex head cap screws, one 3/8" flat washer, one 3/8" lock washer, and one 3/8" UNC hex nut.

5. Attach the LS-1 micro switch assembly which includes one 11-260 pin, one 11-258 bracket, two F278 cotter pins, one pusher table switch operator, and one 03-158 micro switch, to the rear pusher table assembly. See Fig. 1 and page six in the parts section.

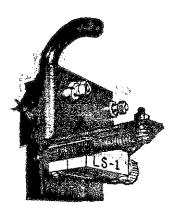
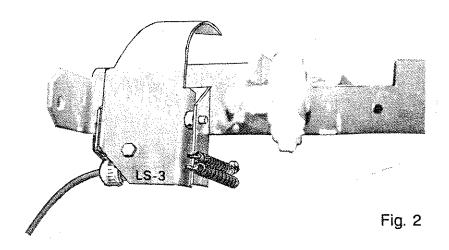


Fig. 1

6. Attach the micro switch LS-3 assembly to the front pusher table assembly. The micro switch LS-3 assembly includes the following: one F278 spring, one ZZ2016 3/8" set collar, one OPR23928 front pusher table switch operator, one 11-260 pin, one 11-258 bracket, and one 03-158 micro switch. See Fig. 2 and page six in the parts section.



- 7. Attach the idler sprocket assembly to the front pusher table assembly. The idler sprocket assembly includes the following: one SPK11536S sprocket, one SPC23878 idler sprocket spacer, one MNT23869 pusher table sprocket mount, one 5/8"-11 UNC X 3" hex head cap screws, one 5/8" spring lock washer, one 5/8"-11 UNC hex nut, two 3/8"-16 UNC X 1-1/4" hex head cap screws, two 3/8" spring lock washers, and two 3/6"-16 UNC hex nuts. See page six in the parts section.
- 8. Attach the hydraulic motor (MTR1011006, page six) to the front pusher table assembly using four 3/8"-16 UNC X 1" flat head socket screw, use the rear mounting holes.
- 9. Attach the 18 tooth sprocket (SPK0060180, page six) to the hydraulic motor and tighten set screws.
- 10. Attach the 90 degree end of hose (HOS0023903) to the front port of the pusher table hydraulic motor.
- 11. Attach the 90 degree end of hose (HOS0023904) to the rear port of the pusher table motor.
- 12. Tighten both ends of these hoses at this time.
- 13. Attach the pusher table braces to each of the bale pusher table sections in the following order from front to rear: BRC0023915, BRC0023883, BRC0023884, BRC0023884, and BRC0023883. Attach using eight 3/8"-16 UNC X 1-1/4" hex head cap screws, seven 3/8" spring lock washers, and nine 3/8"-16 UNC hex nuts. See page six in the parts section.
- 14. Attach the four pusher table shield supports (SUP0023887, page eight) to the mounting plates on the pusher table assembly using sixteen 3/8"-16 UNC X 1" hex head cap screws, sixteen 3/8" spring lock washers, and sixteen 3/8"-16 UNC hex nuts.
- 15. Attach the two pusher table side shields (SHD0023790, page eight) using eight 1/4"-20 UNC X 3/4" hex head cap screws, eight 1/4" spring lock washers, and eight 1/4" flat washers.
- 16. Attach the pusher table rear shield (SHD0020031, page eight) using four 1/4"-20 UNC X 3/4" hex head cap screws, four 1/4" spring lock washers, four 1/4" flat washers, and four 1/4"-20 UNC hex nuts.

## Step Nine Elevator Assembly

1. Attach the elevator-drawbar mount (MNT0023927, page seven) to the two hole near the front of the drawbar using two 3/8"-16 UNC X 1" hex head cap screws, two 3/8" flat washers, and two 3/8" lock washers.

NOTE: Swing the drawbar to the left hole on the frame.
This is the working position.

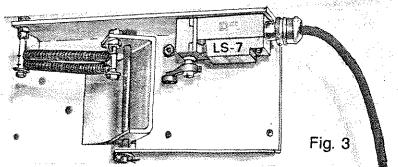
- 2. Attach the elevator (ELV0023926, page seven) to the front of the bale pusher table assembly using two F440 ferrules, two 3/8"-16 UNC X 1-1/4" hex head cap screws, two 3/8" flat washers, two 3/8" spring lock washers, and two 3/8"-16 UNC hex nuts.
- 3. Attach the elevator sprocket assembly to the opening in the elevator using one 5/8"-11 UNC X 2-1/2" hex head cap screw, one SPK0070008 sprocket, one SPC0023879 elevator sprocket mount spacer, one MNT0023863 elevator sprocket mount, two 3/4"-10 UNC X 1-1/4" hex head cap screws, two 3/4 spring lock washers, and two 3/4" flat washers. See page seven in the parts section.

NOTE: Do not tighten bolts until elevator chain is installed.

- 4. With the elevator in working position, place the elevator chain over the sprockets and inside the chain guides. Adjust the chain by moving elevator sprocket assembly forward and tightening the two 5/8" bolts to secure assembly in position.
- 5. The elevator bale guide springs (SPG0023849, page seven) attach to the two upright brackets near the pivot end of the elevator assembly. The spring covers are slipped over the springs, the chain is hooked to the top of the baler's chamber with two 1/4" clevis with moderate tension on the spring where the baler end hooks into chain.

## Step Ten The Right Hand Bale Deck Side Plate Switch (LS-7)

- 1. Attach the rear bed side plate (PLT00237891, page eight) to the rear fifth bale extension using the required amount of 3/8"-16 UNC X 1-1/4" hex head cap screws, 3/8" spring lock washers, and 3/8"-16 UNC hex nuts. Use the two center holes only.
- 2. Attach the front bed side plate (PLT0023788, page eight) to the front fifth bale extension using the required amount of 3/8"-16 UNC X 1-1/4" hex head cap screws, 3/8" spring lock washers, and 3/8"-16 UNC hex nuts. Use the two center holes only.
- 3. Attach the rear bed side support assembly and the center side support assembly (SUP0021231 and SUP0023790, page eight) to the outside of the right hand bale deck side plates using the required amount of 3/8"-16 UNC X 1-1/4" hex head cap screws, 3/8" spring lock washers, 3/8"-16 UNC hex nuts, and 1/4"-20 self tapping screws. Install and tighten all side plate fasteners.
- 4. Attach the bed tilt switch LS-7 assembly to the right rear bale deck side plate using the following: two F278 springs, one OPR23922 bed tilt switch operator, one SPC23886 tilt switch operator spacer, one SPC23885 tilt switch operator spacer, one PIN23871 bed tilt switch pivot pin, two 1/8" X 1" cotter pins, one MNT23921 bed tilt switch and operator mount, switch LS-7 with short roller arm, four 5/16"-18 UNC X 3/4" socket head screws, four 5/16"-18 UNC hex nuts, and four 5/16" spring lock washers. Attach this assembly using four 1/4"-20 UNC X 3/4" socket head screws, and four 1/4"-20 whiz nuts. See Fig. 3 and page eight in the parts section.



5. Secure the switch cord to the bale deck and extension support.

THE IDENTIFICATION TAGS SHIPPED IN CONTAINER (SERIAL #120 THRU #138) SHOULD BE ATTACHED TO EACH FRAME PREFERABLY AS SHOWN BELOW.

